

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

September 22, 2021

Via Electronic Mail

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
133 Clearview Avenue, Harwinton, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Harwinton (“Town”) in March 2000. Cellco’s use of the tower was approved by the Council in October 2003 (EM-VER-066-031001). A copy of the Town’s tower approval and the Council’s EM-VER-066-03101 approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing its fifteen (15) existing antennas with three (3) Samsung MT6407-77A antennas, and six (6) MX0FRO660-03 antennas on its existing mounting platform. Cellco also intends to replace six (6) remote radio heads (“RRHs”) with six (6) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRH specifications are 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 Harwinton’s Chief Elected Official and Land Use Officer.

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

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounting platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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).

Melanie A. Bachman, Esq.
September 22, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Michael R. Criss, First Selectman, Town of Harwinton
Polly Redmond, Harwinton Land Use Coordinator
Clearview Storage Park LLC, Property Owner
Karla Hanna

ATTACHMENT 1

4275-040

HARWINTON ZONING COMMISSION

**Notice of Decision re:
Special Permit and Site Plan Approval**

March 13, 2000

SITE # 4275-040

FILE TYPE Zoning

SECTION _____

Application No.: 3764

Applicant: SBA Communications, Inc.
49 Leavenworth Street, Suite 200
Waterbury, CT 06701
Attn: Thomas F. Flynn, III

Owner: Clearview Industrial Park, LLC
115 Orchard Hill Road
Harwinton, CT 06791

Property: 133 Clearview Avenue

Assessor's Map: B7-01-0017

APPLICATION HISTORY

The above applicant filed an application for a special permit and site plan approval for a 195' tall monopole telecommunications tower with the Zoning Commission on October 10, 1999. The application was formally received at the Zoning Commission's meeting on October 12, and a public hearing was set for November 8, 7:30 p.m. Legal notices were published in the Republican American on October 29, and November 5. The applicant sent certified mail notices to property owners within 200' of the boundaries of the subject property on October 22.

The public hearing convened on November 8, and was continued to December 13. At the request of the applicant and subject to the applicant's written extension, the public hearing was continued to January 10, 2000, at which time it was adjourned.

OTHER AGENCY APPROVALS

The Inland Wetlands & Watercourses Commission issued a declaratory ruling of no wetlands impact on October 4, 1999.

APPLICATION SUMMARY

The property is located in the Light Industrial ("LI") zone for a depth of 1,000' from Clearview Avenue. The total area of the property is 12.59 acres and is currently used for a contractor's garage (30' x 96') and two (2) sheet metal storage buildings (30' x 96' and 60' x 100'). The property is basically a ledge plateau which rises from 950' elevation at Clearview Avenue to 990' in the rear.

The applicant proposes to lease a plot of 100' by 100' from the owner for a term of twenty (20) years, and to construct a 195' tall monopole telecommunications tower at the rear of the property.

The leased site will be fenced for security. The site plan dated 8/26/99, revised to 9/28/99, does not propose any other structures in connection with the tower on the property.

The tower site is located at the western end of the property, within the LI zone. The tower site is to be accessed by a proposed 195' extension of the existing 840' driveway, 20' in width. The base of the tower is located at least 200' from existing property lines.

The proposed elevation of the base of the tower is 990' NAVD 88. The tower location coordinates are NAD 27 Lat. North 41° 46' 32.25" Long. West 73° 05' 56.45"; NAD 83 Lat. North 41° 46' 32.60" Long. West 73° 05' 54.84".

The tower is designed to accommodate five (5) licensed carriers' antennae, at 10' intervals starting at the top.

STATUTORY AUTHORITY

This application is governed by C.G.S. §8-3c re special permits and §8-3(g) re

site plans.

The applicant conceded that it is not a licensed telecommunications carrier within the meaning of the Telecommunications Act of 1934, as amended by the Telecommunications Act of 1996, 47 U.S.C.A. §332(c)(7), and does not have a co-applicant which is a licensed carrier. The applicant intends to seek tenant carriers for the tower only if it obtains approval.

ZONING REGULATIONS

This application is governed by Zoning Regulations §8.10 et seq, as follows:

8.10 TRANSMISSION TOWERS. A special permit may be granted for the erection and operation of radio relay and similar towers in any zone. In approving applications the Commission must find the following:

- 8.10.1 That the tower is located a distance from any property line which exceeds the height of the tower.
- 8.10.2 That the tower is required for the public interest, convenience or necessity.
- 8.10.3 That the proposed location is necessary and that alternate locations where similar special permit uses are located are not available.
- 8.10.4 That the visual inconvenience of the location is clearly less than the public necessity which requires the tower.

In addition, all special permit applications are governed by Zoning Regulations, §8.1 (Procedures), and §8.1.1. (General Standards).

Furthermore, a site plan is required under Zoning Regulations, §§7.1 - 7.5, and an erosion and sediment control plan is required under §7.6.

FINDINGS OF FACT

§8.10.1 - Fall zone: The proposed site of the 195' tower shown on the site plan is 208'± from an interior northeasterly boundary corner, 292.5'± from the northerly boundary and 208'± from the westerly boundary of the property, and clearly more than 195' from the southerly boundary. It is 1041'± from the street line and 651.7'± from the closest of the three (3) buildings on the property. It therefore satisfies the fall zone requirement of §8.10.1.

§8.10.2 - Public interest, convenience or necessity: The applicant admitted that it is not a provider of "personal wireless services," meaning a provider of "commercial mobile services, unlicensed wireless services, and common carrier wireless exchange access services" within the meaning of the Telecommunications Act, 47 U.S.C. §332(c)(7)(C), and had no specific providers as lessees or co-applicants. It was therefore able to present only one Sprint and one Nextel propagation study for the tower service area. As far as the two existing SNET towers in the service area, *i.e.*, an existing lattice cellular tower at 125 Wildcat Hill Road and a 180' high monopole cellular tower on Weingart Road, the applicant simply stated that the SNET tower (presumably on Weingart Road) "would not work for PCS coverage" and "was structurally not capable." An overlap with existing towers in Torrington and Plymouth is required to serve the Route 8 corridor, and the west side of Harwinton and East Litchfield areas. The applicant presented no evidence as to the level of service or signal quality required to do so. Finally the applicant did not specifically demonstrate why a 195' high tower was required, as opposed to a lesser height.

The applicant's evidence was quite weak in regard to public necessity; however, the Commission feels that the merits of the proposed location of the tower outweigh the applicant's failure to clearly demonstrate its necessity and proposed height.

§8.10.3 - Alternate locations: Based on information and belief, it appears that the SNET lattice tower at 125 Wildcat Hill Road is not in service at this time, and the SNET monopole tower on Weingart Road may accommodate one additional carrier, although an engineering assessment of the structural capability of that tower may be

required.

There are currently pending before the Commission five (5) tower applications. Two of them - SBA at 205 County Line Road and Sprint Spectrum LP at 529 Burlington Road - are clearly intended to serve the east side of Harwinton and a portion of Burlington. Two others - SBA at 601 Hill Road and Sprint Spectrum LP at 123 Campville Hill Road - are intended to serve the Route 8 corridor and the southwestern part of Harwinton; however, both of those proposed towers are in the Country Residential ("CR") zone and appear to be more visible sites in residential neighborhoods.

Therefore the Commission believes that this site is the most appropriately zoned tower site for this service area.

§8.10.4 - Visual inconvenience vs. public necessity: Assuming that a 195' high tower is necessary somewhere in western Harwinton, this site appears to be the least obtrusive and most appropriately zoned of the three (3) sites proposed to serve the Route 8 corridor.

§8.1.1. - General standards; Subject to appropriate conditions of approval, the application will satisfy the general standards applicable to special permits.

§§7.1 - 7.6 - Site plans and erosion control plan: Subject to appropriate modifications, the site plan and erosion control plan can be made to satisfy these requirements.

THEREFORE, based on the foregoing regulations, findings of fact and reasons for decision, Application No. 3764 for a special permit to construct a 195' monopole telecommunications tower at 133 Clearview Avenue, as shown on 5 sheets constituting the site plan and erosion control plan, dated 8/26/99, revised 9/28/99, are hereby APPROVED, subject to the following conditions and modifications:

1. Tower Manager: That a Tower Manager be designated by name, address, contact person and telephone number as the person and firm responsible for the construction and operation of the tower, and be kept current and on file with the Commission at all times.

2. Tower Removal Bond: That the applicant file, prior to construction, a tower removal bond, in sufficient amount, and with sufficient surety, to guarantee the cost of removal of the tower, fence, and accessory structures, when the tower is no longer in service (other than for routine maintenance and testing), or its lease (and renewal options) expire, whichever occurs first. The bond shall protect both the Town of Harwinton and the landowner, and their heirs, successors and assigns, as per C.G.S. §8-3(g) and Zoning Regulation §7.4.
3. Landscaping and Fencing: That the tower site be fenced with a secure chain link fence with green webbing, and such fence be maintained in a safe condition at all times.
4. Security Alarm: That the tower be protected by a security alarm which shall be regularly tested and operational at all times.
5. EMF Certification: That each carrier shall certify that the EMF output of any antenna, combined with that of any previously installed antenna(s), is within FCC standards for public health and safety, and that the Tower Manager provide annual certification during the service life of the tower.
6. Tower Construction: That the monopole tower satisfy all structural requirements of the State Building Code, as certified by a Connecticut licensed structural engineer; that the applicant comply with the threshold structural notification requirements of C.G.S. §29-276b and the Connecticut Supplement to the State Building Code; and that the monopole be of a matte gray finish with no lights or striping.
7. Fall Zone: That the property lines be maintained at all times while the tower is standing at a distance from the base of the tower not less than its total height.
8. Municipal, VFD and EMS Use: As offered by the applicant at the public hearing, that the Town of Harwinton, the Westside Volunteer Fire Department, the Harwinton Volunteer Fire Department and the Harwinton Ambulance Association be allowed to place their antenna(s) on the tower at no cost, provided that there is no proven signal interference and subject to such reasonable terms and conditions as the applicant or Tower Manager may impose.
9. Future structures and modifications: That any future structural additions or modifications, including accessory structures, be submitted to the Zoning

Commission in accordance with the Zoning Regulations of the Commission then in effect, i.e., Regulations §A.8.10.1 - A.8.10.12, as amended, and any other land use regulations and ordinances as may then be in effect.

10. Recording and filing: That this special permit and the mylar site plans, be recorded in the Harwinton Land Records within fifteen (15) days, and shall run with the land described in the Harwinton Land Records in Volume 149 at Pages 796-97 and Volume 154 at Pages 105-06.

Dated at Harwinton, Connecticut this 13th day of March, 2000.

HARWINTON ZONING COMMISSION

By:


John Byrnes, Its Chairman

A:\MDR.harwinton.2\HPC. notice of decison - 133 Clearview Ave



Harwinton / CT 01944-5
Zoning

TOWN OF HARWINTON

HARWINTON, CONNECTICUT 06791

Tele: (860) 485-9051 • Fax: (860) 485-0051

March 17, 2005

Sent via facsimile: 860-659-9140
and regular mail

Mr. Randy Freschlin
SBA, Inc.
80 Eastern Avenue
Glastonbury, CT 06033

Dear Mr. Freschlin:

In regards to our telephone conversation this morning, I am writing to inform you that a review of the tower removal bond for the telecommunications tower located at 133 Clearview Avenue, Harwinton, CT is due by the Harwinton Zoning Commission. As part of the commission's approval on March 13, 2000 for the tower the Commission asked that a \$50,000 bond be presented. In an addendum to the motion, on May 22, 2000 the Zoning Commission conditioned that the applicant shall submit a revised estimate for the cost of removal of the tower, fence and accessory structures on March 13, 2005 and by March 13 of every fifth year thereafter reflecting the estimated cost of said removal for the ensuing five year period. The bond on file in the Land Use office has an effective date of April 28, 2001.

This item will be placed on the Zoning Commission's next meeting agenda scheduled for March 28, 2005. No representation by SBA is required, it is only asked that the revised bond be submitted to this office by that time. In the event that it cannot be submitted by March 28 the existing bond shall remain in effect until the new bond is reviewed and approved.

If you have any questions, please call me at 485-2784.

Sincerely,

Polly Redmond
Land Use Coordinator

Enclosures: Page 6 of the decision pertaining to tower removal bond
Copy of minutes showing motions made on 5-13-05 and 5-22-05
Copy of bonds on file in the Land Use office

2. Tower Removal Bond: That the applicant file, prior to construction, a tower removal bond, in sufficient amount, and with sufficient surety, to guarantee the cost of removal of the tower, fence, and accessory structures, when the tower is no longer in service (other than for routine maintenance and testing), or its lease (and renewal options) expire, whichever occurs first. The bond shall protect both the Town of Harwinton and the landowner, and their heirs, successors and assigns, as per C.G.S. §8-3(g) and Zoning Regulation §7.4.

3. Landscaping and Fencing: That the tower site be fenced with a secure chain link fence with green webbing, and such fence be maintained in a safe condition at all times.

4. Security Alarm: That the tower be protected by a security alarm which shall be regularly tested and operational at all times.

5. EMF Certification: That each carrier shall certify that the EMF output of any antenna, combined with that of any previously installed antenna(s), is within FCC standards for public health and safety, and that the Tower Manager provide annual certification during the service life of the tower.

6. Tower Construction: That the monopole tower satisfy all structural requirements of the State Building Code, as certified by a Connecticut licensed structural engineer; that the applicant comply with the threshold structural notification requirements of C.G.S. §29-276b and the Connecticut Supplement to the State Building Code; and that the monopole be of a matte gray finish with no lights or striping.

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9. Future structures and modifications: That any future structural additions or modifications, including accessory structures, be submitted to the Zoning



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

October 15, 2003

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

RE: **EM-VER-066-031001** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 133 Clearview Avenue, Harwinton, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on October 14, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that the structural modifications recommended in the Structural Analysis Report prepared by Daniel Blakeman (dated September 8, 2003) be implemented as part of the antenna installation.

The proposed modifications are to be implemented as specified here and in your notice dated October 1, 2003. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable Marie M. Knudsen, First Selectman, Town of Harwinton
William J. Tracy, Jr., Planning Chairman, Town of Harwinton
Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
Stephen J. Humes, Esq., LeBoeuf Lamb Greene & MacRae

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

**HARWINTON NW CT
133 CLEARVIEW AVENUE
HARWINTON, CT 06791**

DRAWING INDEX

- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, TOWER ELEVATION, EQUIPMENT CONFIGURATION PLANS & ELEVATIONS.
- B-1 RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS.
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

**START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492**

**END: 133 CLEARVIEW AVENUE
HARWINTON, CT 06791**

- | | |
|---|--------|
| 1. HEAD SOUTH TOWARDS ALEXANDER DRIVE | 279 FT |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE | 289 FT |
| 3. TURN RIGHT TOWARDS ALEXANDER DRIVE | 167 FT |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE | 0.3 MI |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL RD S. | 0.1 MI |
| 6. TURN LEFT ONTO CT-68 W | 0.4 MI |
| 7. TURN RIGHT ONTO N. COLONY RD | 0.3 MI |
| 8. TURN RIGHT ONTO CT-15 N | 0.5 MI |
| 9. CONTINUE ONTO CT-15 N | 3.1 MI |
| 10. TAKE EXIT 68 W TO 1-691 N | 7.9 MI |
| 11. TAKE EXIT 1 TO I-84 W | 1.0 MI |
| 12. CONTINUE ON I-84 W | 7.7 MI |
| 13. TAKE EXIT 20 TO MERGE ONTO CT-8 N | 9.2 MI |
| 14. CONTINUE ONTO CT-8 N | 7.1 MI |
| 15. TAKE EXIT 42 TO MERGE ONTO CT-118 E / LITCHFIELD RD | 0.3 MI |
| 16. TURN RIGHT ONTO CT-118 E / LITCHFIELD RD | 1.2 MI |
| 17. TURN LEFT ONTO CLEARVIEW AVE. (DESTINATION WILL BE ON LEFT) | 0.7 MI |



LOCATION MAP
SCALE: 1" = 400'-0"

SITE INFORMATION

VZ SITE NAME: HARWINTON NW CT
VZ PROJ FUZE I.D.: 16244598
VZ LOCATION CODE: 467321
VZ PROJECT CODE: 20202198928
LOCATION: 133 CLEARVIEW AVENUE
HARWINTON, CT 06791

PROJECT SCOPE: REFER TO NOTES ON DRAWING C-1 FOR SCOPE OF WORK.

PARCEL ID: 589
ZONING DISTRICT: LI-A (LIGHT INDUSTRIAL ZONE A)
LATITUDE: 41° 46' 32.66" N (41.7757389° N)
LONGITUDE: 73° 05' 54.78" W (73.0985500° W)
GROUND ELEVATION: 989± AMSL

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

PROPERTY OWNER: CLEARVIEW STORAGE PARK, LLC
P.O. BOX 155
HARWINTON, CT 06791

APPLICANT: CELCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
280 TRUMBULL STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

VERIZON SMART TOOL PROJECT #: 10085265; 10085813

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860) 663-1697
WWW.ALLPOINTSTECH.COM FAX: (860) 663-0935

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	03/31/21	FOR REVIEW: JRM
1	06/14/21	PER UPDATED RFDS: JRM
2	07/16/21	PER UPDATED RFDS: JRM
3	07/28/21	REV PER REVISED
		MOUNT MOD ANALYSIS: JRM
4	08/25/21	FOR FILING: JRM
5		



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: CLEARVIEW STORAGE
ADDRESS: PARK, LLC
P.O. BOX 155
HARWINTON, CT 06791

HARWINTON NW CT

SITE: 133 CLEARVIEW AVENUE
ADDRESS: HARWINTON, CT 06791

APT FILING NUMBER: CT141_12000

DRAWN BY: THK

DATE: 03/31/21 CHECKED BY: JRM

VZ PROJECT CODE: 20202198928

VZ LOCATION CODE: 467321

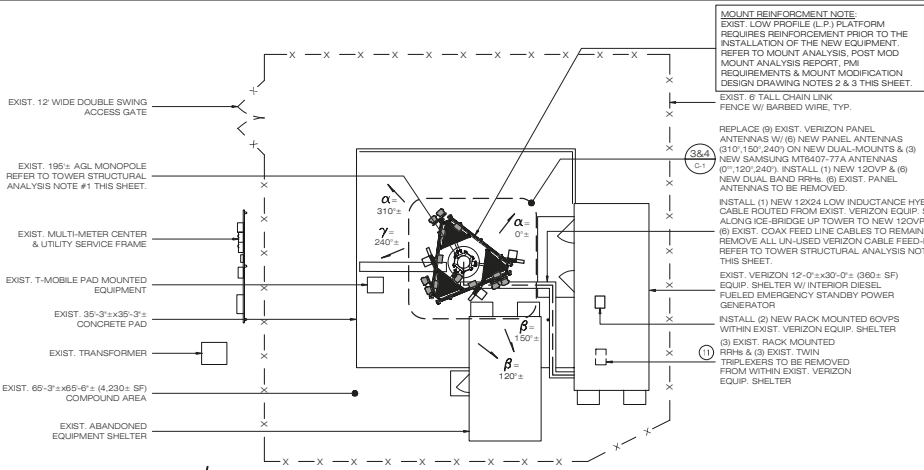
VZ FUZE ID: 16244598

SHEET TITLE:

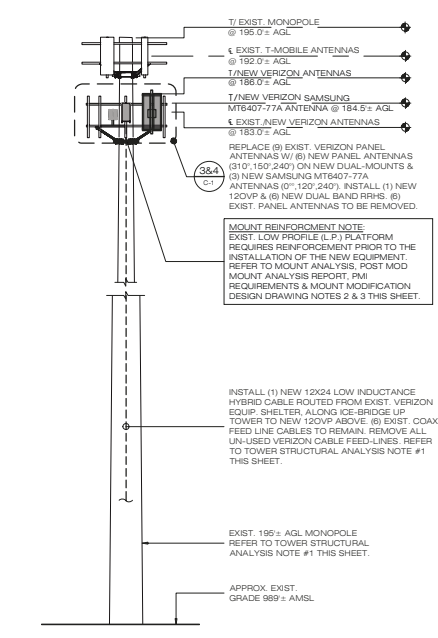
TITLE SHEET

SHEET NUMBER:

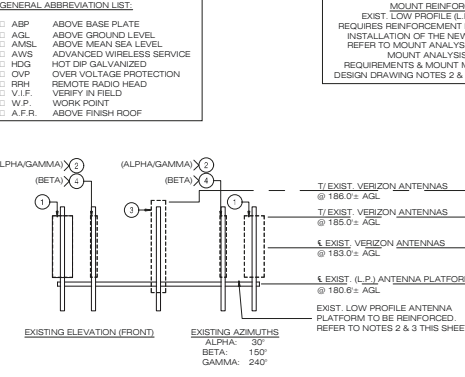
T-1



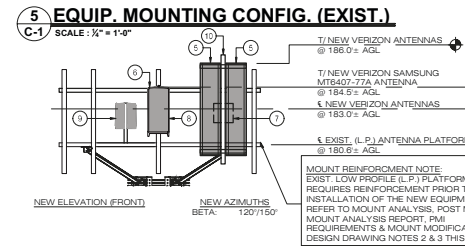
1 COMPOUND PLAN
SCALE: 1" = 10'-0"



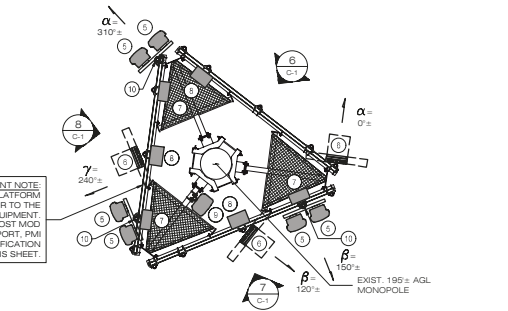
2 TOWER ELEVATION
SCALE: 1" = 10'-0"



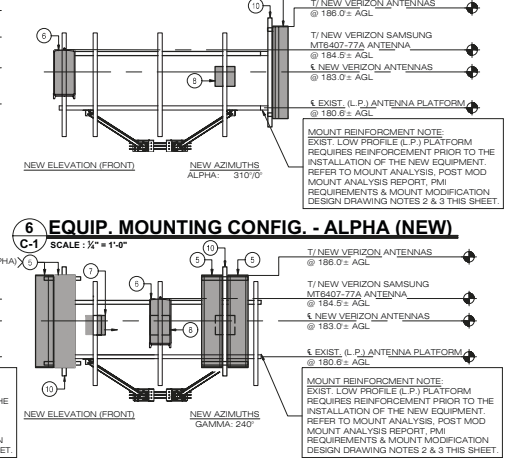
3 EQUIP. CONFIGURATION PLAN (EXIST.)
SCALE: 1/2" = 1'-0"



5 EQUIP. MOUNTING CONFIG. (EXIST.)
SCALE: 1/2" = 1'-0"



4 EQUIP. CONFIGURATION PLAN (NEW)
SCALE: 1/2" = 1'-0"



6 EQUIP. MOUNTING CONFIG. - ALPHA (NEW)
SCALE: 1/2" = 1'-0"

- NOTES:**
- REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY (TES) TOWER ENGINEERING SOLUTIONS DATED 08/20/21 AVAILABLE UNDER SEPARATE COVER.
 - REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A., PROJECT #2177046A MARKED REV. DATED 07/27/21 AVAILABLE UNDER SEPARATE COVER.
 - REFER TO POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWINGS PREPARED BY MASER CONSULTING, P.A., PROJECT #2177046A, MARKED REV. 1, DATED 07/23/21 AVAILABLE UNDER SEPARATE COVER.
 - BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORPORATION, P.C. ON 01/26/21.
 - PROJECT SCOPE INCLUDES THE FOLLOWING:
 - REPLACEMENT OF (8) EXIST. PANEL ANTENNAS W/ (6) NEW PANEL ANTENNAS ON DUAL MOUNTS (JMA PN 91800318) & (3) NEW SAMSUNG MTR607-77A ANTENNAS
 - INSTALLATION OF (6) NEW DUAL BAND RRHs
 - INSTALLATION OF (1) NEW 120VP
 - INSTALLATION OF (1) NEW 12x24 LOW-INDUCTANCE HYBRID CABLE
 - REMOVAL OF (3) EXIST. RRHs & (3) TWIN TRIPLExERS FROM WITHIN EXIST. VERIZON EQUIP. SHELTER
 - REMOVAL OF (6) EXIST. PANEL ANTENNAS
 - REMOVAL OF ALL UNUSED VERIZON COAX CABLE FEED-LINES
 - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
 - CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE)
 - MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
 - SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
 - BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR W/ # 2 AWG, BCW, (WHERE APPLICABLE).
 - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MASTS REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
 - ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS (UNLESS NOTED OTHERWISE).
 - ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND NEW ANTENNA FACE.
 - REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLEING & DOWN-TILT INFORMATION.
 - COORDINATE ALL LSUB6 COLOR MATCHING (WHERE APPLICABLE) W/ LSUB6 MANUFACTURER INSTALLATION REQUIREMENTS, VERIZON CONSTRUCTION MANAGER & OWNER.
 - PAINT ALL NEW NON LSUB6 ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

- SCOPE OF WORK (ALL SECTORS)**
- EXIST. ANTENNA (TO BE REPLACED)
MODEL: AMPHENOL LPA-80063-4CF
 - EXIST. ANTENNA (TO BE REPLACED)
MODEL: AMPHENOL LPA-171080-8CF
 - EXIST. ANTENNA (TO BE REPLACED)
MODEL: AMPHENOL BXA-70093-9CF
 - EXIST. ANTENNA (TO BE REPLACED)
MODEL: ANTEL BXA-171063-8CF
 - NEW ANTENNA
MODEL: JMA M08F0960-03
MOUNTED ON NEW JMA DUAL MOUNT (PN 91900314-2)
REFER TO NOTE #9 THIS SHEET.
 - NEW ANTENNA
MODEL: SAMSUNG MTR607-77A
 - NEW DUAL BAND RRH
MODEL: SAMSUNG B13B85 RRH-BROAC (RFV01U-D2A)
 - NEW DUAL BAND RRH
MODEL: SAMSUNG B66B2A RRH-BRO49 (RFV01U-D1A)
 - NEW 120VP (BETA ONLY) MOUNTED ON NEW STEPPED BSMH-2 BACK TO BACK PIPE MOUNT
MODEL: RAYCAP RVZDC-6627-PF-48
 - NEW P2.5 STD 37 LG. ANTENNA PIPE MAST (GALV.) UTILIZE NEW PIPE TO RAIL HARDWARE
(3) EXIST. RACK MOUNTED RRHs & (3) EXIST. TWIN TRIPLExERS (TO BE REMOVED FROM WITHIN EXIST. VERIZON EQUIP. SHELTER
MODEL: NOKIA B13 RRH 4x30W LTE

- DESIGN PROFESSIONALS OF RECORD**
- PROF. MICHAEL S. TRODDEN P.E.**
COMP. ALL-POINTS TECHNOLOGY CORPORATION, P.C.
 ADDRESS: 567 VAUXHALL STREET EXT. SUITE 311
 WATERFORD, CT 06385
 P.O. BOX 158
 HARTWINTON, CT 06791
- OWNER:** CLEARVIEW STORAGE
 ADDRESS: PARK, LLC
 P.O. BOX 158
 HARTWINTON, CT 06791
- HARWINTON NW CT**
- SITE: 133 CLEARVIEW AVENUE
 ADDRESS: HARWINTON, CT 06791
- APT FILING NUMBER: CT41-12000
- DATE: 03/31/21
 DRAWN BY: THK
 CHECKED BY: JRM
- VZ LOCATION CODE: 20202198928
 VZ PROJECT CODE: 467321
 VZ FUSE ID: 16244598
- SHEET TITLE:**
**COMPOUND PLAN,
 TOWER ELEVATION,
 EQUIP. CONFIGURATION
 PLANS & ELEVATIONS**
- SHEET NUMBER:
C-1

Cellco Partnership d/b/a

verizon

20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION, SUITE 311
 WATERFORD, CT 06385 PHONE: (860) 663-1617
 WWW.ALLPOINTSCTECH.COM FAX: (860) 663-0935

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	03/31/21	FOR REVIEW - JRM
1	06/14/21	PER UPDATED RFDS - JRM
2	07/16/21	PER UPDATED RFDS - JRM
3	07/28/21	REV PER REVISED MOUNTING ANALYSIS - JRM
4	08/25/21	FOR FILING - JRM
5		

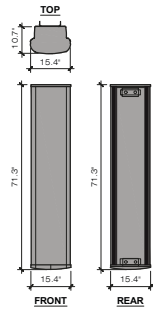
STATE OF CONNECTICUT
MICHAEL TRODDEN
 33315
PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

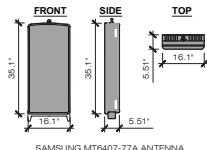
PROF. MICHAEL S. TRODDEN P.E.
COMP. ALL-POINTS TECHNOLOGY CORPORATION, P.C.
 ADDRESS: 567 VAUXHALL STREET EXT. SUITE 311
 WATERFORD, CT 06385
 P.O. BOX 158
 HARTWINTON, CT 06791

EQUIPMENT DATA									
EQUIPMENT SPECIFICATIONS									
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (ft)	WIDTH (ft)	DEPTH (ft)	WEIGHT (LBS)	
ALPHA	700/850/1900/2100 JMA MX06FRO660-03	1	310°	NEW	71.3	15.4	10.7	60.0 ⁽¹⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	310°	NEW	71.3	15.4	10.7	60.0 ⁽¹⁾	
BETA	700/850/1900/2100 JMA MX06FRO660-03	1	0°	NEW	35.1 ⁽²⁾	16.1 ⁽³⁾	5.5 ⁽⁴⁾	87.1 ⁽⁵⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	150°	NEW	71.3	15.4	10.7	60.0 ⁽¹⁾	
GAMMA	700/850/1900/2100 JMA MX06FRO660-03	1	120°	NEW	35.1 ⁽²⁾	16.1 ⁽³⁾	5.5 ⁽⁴⁾	87.1 ⁽⁵⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	240°	NEW	71.3	15.4	10.7	60.0 ⁽¹⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	240°	NEW	71.3	15.4	10.7	60.0 ⁽¹⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	240°	NEW	35.1 ⁽²⁾	16.1 ⁽³⁾	5.5 ⁽⁴⁾	87.1 ⁽⁵⁾	
APPURTENANCE MAKE/MODEL									
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5	
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0	
	RAYCAP RVZDC-6627-PF-48	1	-	NEW	29.5	16.5	12.6	32.0	

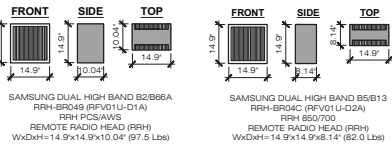
(1) ETR DENOTES EXIST. TO REMAIN.
(2) WEIGHT WITHOUT MOUNTING BRACKET.
(3) ANTENNA DATA BASED ON RFDS REV3 DATED 07/01/21
(4) EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
(5) NOT TO EXCEED



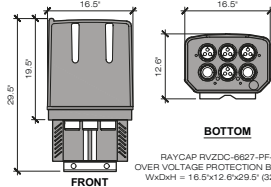
2 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



3 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



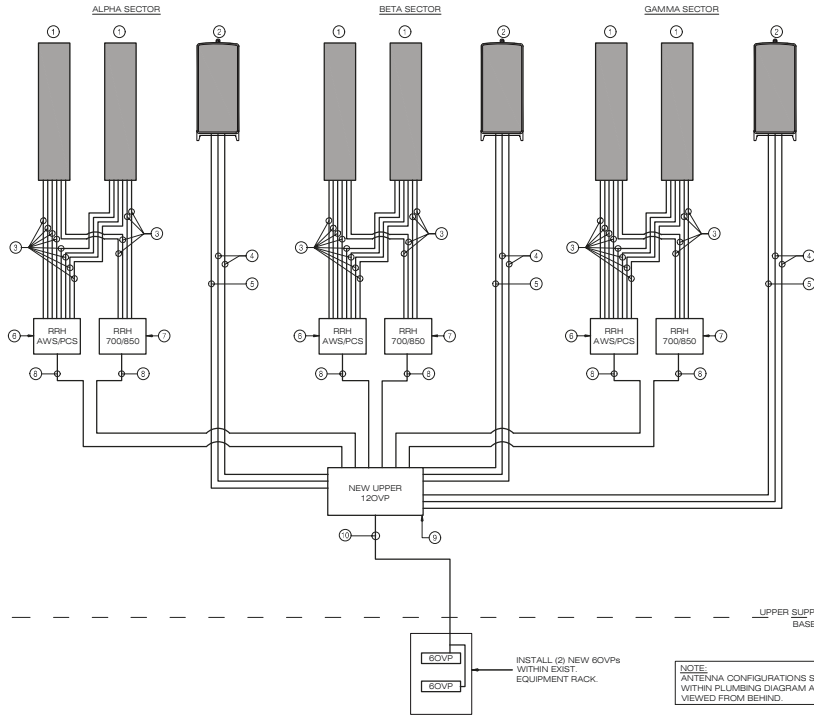
4 RRH EQUIPMENT DETAILS
B-1 SCALE: 1/2" = 1'-0"



5 OVER VOLTAGE PROTECTION BOX (OVP)
B-1 SCALE: 1" = 1'-0"

BILL OF MATERIALS				
	QUANTITY	LENGTH	COMMENTS	
①	6		(JMA MX06FRO660-03) MOUNTED TO NEW PIPE MAST VIA NEW SIDE BY SIDE MOUNT BRACKETS (JMA 91900314-02)	
②	3		MOUNTED TO EXIST. PIPE MAST	
③	36	15 FT	ROUTE FROM RRH TO ANTENNAS	
④	6	15 M	ROUTE FROM UPPER OVP TO ANTENNAS	
⑤	3	15 M	PROPRIETARY POWER CABLE FROM EXIST. OVP TO ANTENNAS	
⑥	3		SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	
⑦	3		SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	
⑧	6	15M	PROPRIETARY POWER & FIBER CABLES	
⑨	1		(RVZDC-6627-PF-48)	
⑩	1	250 ± FT	12x24 LOW INDUCTANCE HYBRID CABLE	

NOTES: 1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS REV3 DATED 07/01/21.
3. * DENOTES EQUIPMENT DESIGNATED FOR LEASING ONLY (WHERE APPLICABLE).
4. INSTALL ALARM BOARDS AT ALL OVPS WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL UP-CONVERTERS LOCATED AT BASE OVPS WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.
7. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.



1 PLUMBING DIAGRAM
B-1 SCALE: 1/2" = 1'-0"

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CONSTRUCTION DOCUMENTS		
NO	DATE	REVISION
0	03/31/21	FOR REVIEW: JRM
1	08/14/21	PER UPDATED RFDS: JRM
2	07/16/21	PER UPDATED RFDS: JRM
3	07/28/21	REV PER REVISED
MOUNT MOD ANALYSIS: JRM		
4	08/25/21	FOR FILING: JRM
5		

STATE OF CONNECTICUT
MICHAEL S. TRODDEN
33313
PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD
PROF. MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
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WATERFORD, CT 06385
OWNER: CLEARVIEW STORAGE
ADDRESS: PARK, LLC
P.O. BOX 155
HARWINTON, CT 06791

HARWINTON NW CT
SITE: 133 CLEARVIEW AVENUE
ADDRESS: HARWINTON, CT 06791
APT FILING NUMBER: CT141_12000
DRAWN BY: THK
DATE: 03/31/21 CHECKED BY: JRM
VZ PROJECT CODE: 20202198928
VZ LOCATION CODE: 467321
VZ FUZE ID: 16244598

SHEET TITLE:
RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS

SHEET NUMBER:
B-1

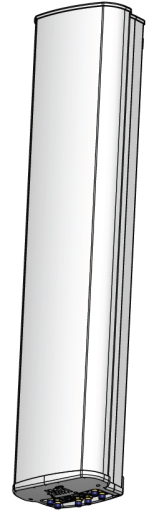
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



NWAV™

Fast Roll-Off antennas increase data throughput without compromising coverage

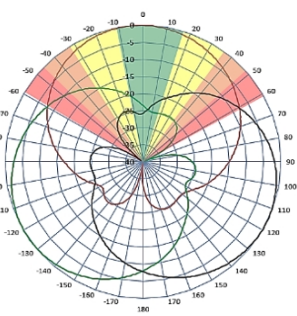
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

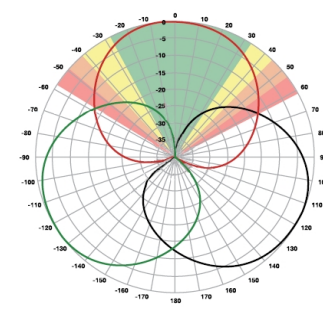
JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

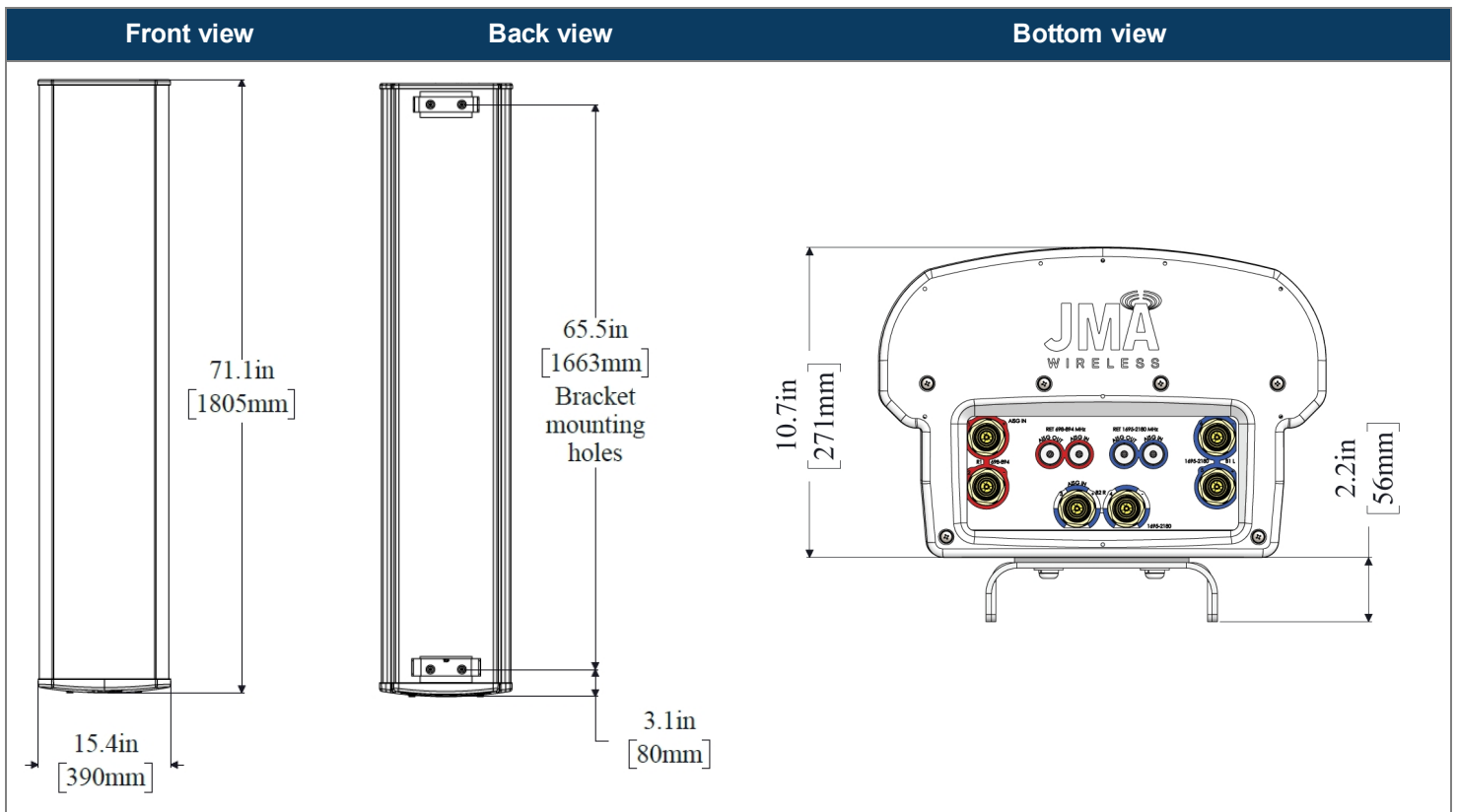
The LTE radio automatically selects the best throughput based on measured SINR.



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
	Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees ¹	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

¹ Typical value over frequency and tilt

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6



Ordering information	
Antenna model	Description
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

Remote electrical tilt (RET 1000) information

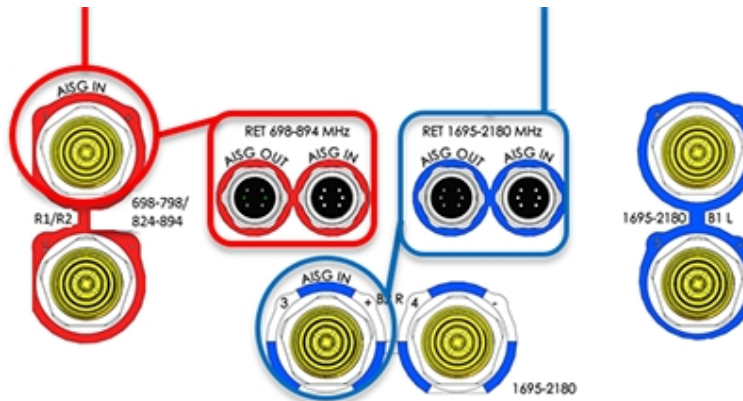
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6



Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
 B1: 1695-2180 MHz
 B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

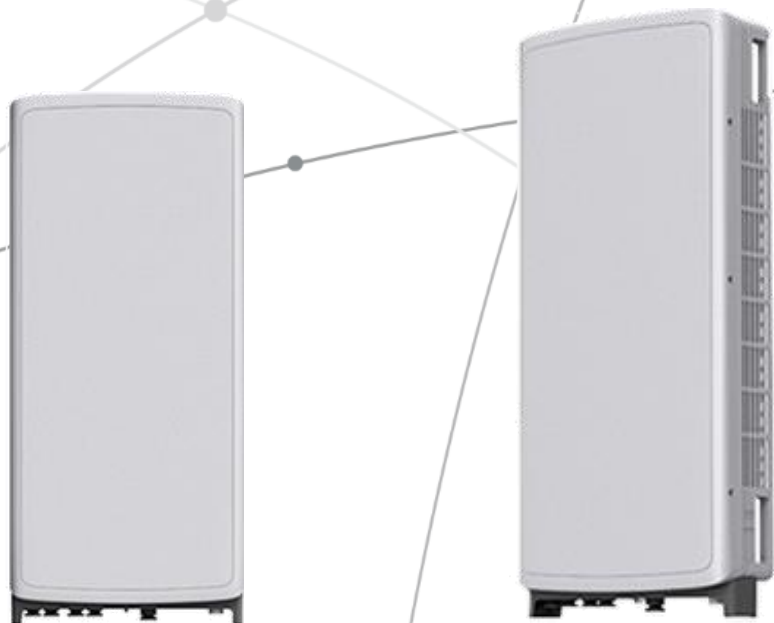
Cooling: Natural convection

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



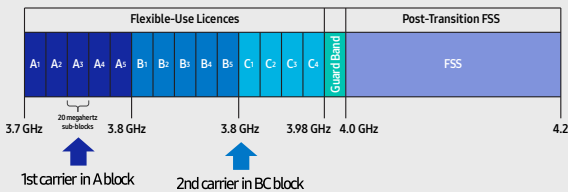
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

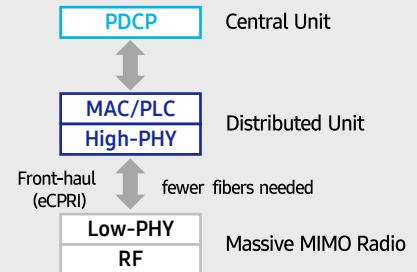
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

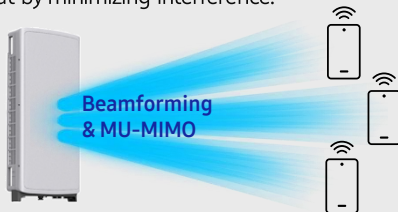


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

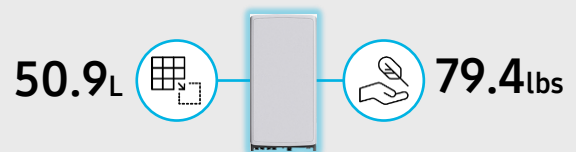
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

	General	Power	Density					
Site Name: Harwinton NW								
Tower Height: Verizon @ 183ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total
*T-Mobile	4	1167	193	1900	0.0480	1.0000	0.48%	
*T-Mobile	1	438	193	1900	0.0045	1.0000	0.05%	
*T-Mobile	2	789	193	600	0.0162	0.4000	0.41%	
*T-Mobile	2	433	193	700	0.0089	0.4667	0.19%	
*Nextel	9	100	175	851	0.0113	0.5673	0.20%	
VZW 700	4	464	183	751	0.0020	0.5007	0.40%	
VZW Cellular	4	464	183	874	0.0020	0.5827	0.34%	
VZW PCS	4	1064	183	1975	0.0046	1.0000	0.46%	
VZW AWS	4	1140	183	2120	0.0049	1.0000	0.49%	
VZW CBAND	4	6531	183	3730.08	0.0281	1.0000	2.81%	
								5.82%
* Source: Siting Council								

ATTACHMENT 4



Tower Engineering Solutions

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

Structural Analysis Report

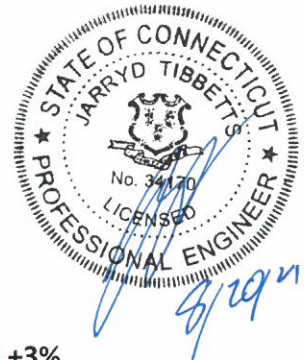
Existing 195 ft Nudd Corporation Monopole
Customer Name: SBA Communications Corp
Customer Site Number: CT01944-S
Customer Site Name: Harwinton
Carrier Name: Verizon (App#: 146139-4)
Carrier Site ID / Name: 467321 / Harwinton NW
Site Location: 133 Clearview Ave
Harwinton, Connecticut
Litchfield County
Latitude: 41.775522
Longitude: -73.098202

Analysis Result:

Max Structural Usage: 82.0% [Pass]

Max Foundation Usage: 70.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: +3%



Report Prepared By: Bishal Pandit



Tower Engineering Solutions

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

Structural Analysis Report

Existing 195 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT01944-S

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Analysis Result:

Max Structural Usage: 82.0% [Pass]

Max Foundation Usage: 70.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: +3%

Report Prepared By: Bishal Pandit

Introduction

The purpose of this report is to summarize the analysis results on the 195 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Fred A. Nudd Corporation, Project # 7218-1 Dated 12/30/1999
Foundation Drawing	Fred A. Nudd Corporation, Project # 7218-1 Dated 12/30/1999
Geotechnical Report	Jaworski Geotech, Project # 99503G Dated 11/29/1999
Modification Drawings	Vertical Structures, TA2003007014-T1 Dated 09/09/2003
Mount Analysis	Maser Consulting, Project# 21777046A (Rev1), Dated: 07/23/2021

Analysis Criteria

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

Wind Speed Used in the Analysis:	120.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Risk Category:	
Topographic Category:	
Crest Height:	427 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			RFS - APXV18-206516S-C-A20 - Panel	Low Profile Platform SUPPORT) + (Replace all mount pipes & add additional plan bracing)	(1) 1 5/8" Fiber	T-Mobile
			RFS APXVAARR24_43-U-NA20 Panels			
			Ericsson KRY 112 489/2 TMAs			
			Ericsson Radio 4449 B71+B12 RRU			
			Kathrein 782 11056 BIAS-T			
			Antel - BXA-70063-6CF - Panel	Low Profile Platform		Verizon
			Antel - LPA-80063-4CF - Panel			
			Antel - LPA-171063-8CF - Panel			
			Antel - LPA-171080-8CF - Panel			

Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
		6	JMA Wireless- MX06FRO660-03 - Panel	Low Profile Platform w/ (Support rail w/ end connection) VZWSMART-PLK5 (Kicker Kit) VZWSMART- PLK7 (Collar Mount)	(17) 1 5/8" Coax (1) 1 5/8" Hybrid	Verizon
			Samsung - RFV01U-D1A - RRU			
			Samsung - RFV01U-D2A - RRU			
			Samsung - MT6407-77A - Panel			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate	Flange
Max. Usage:				
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions			

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

Service Load Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.0830 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

This analysis was performed based on the information supplied to **Tower Engineering Solutions,** Verification of the information provided was not included in the Scope of Work for . The accuracy of the analysis is dependent on the accuracy of the information provided.

The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of . In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 53.77% at 0.0ft

Structure: CT01944-S-SBA
Site Name: Harwinton
Height: 195.00 (ft)
Base Elev: 0.000 (ft)

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

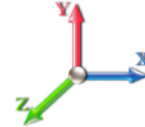
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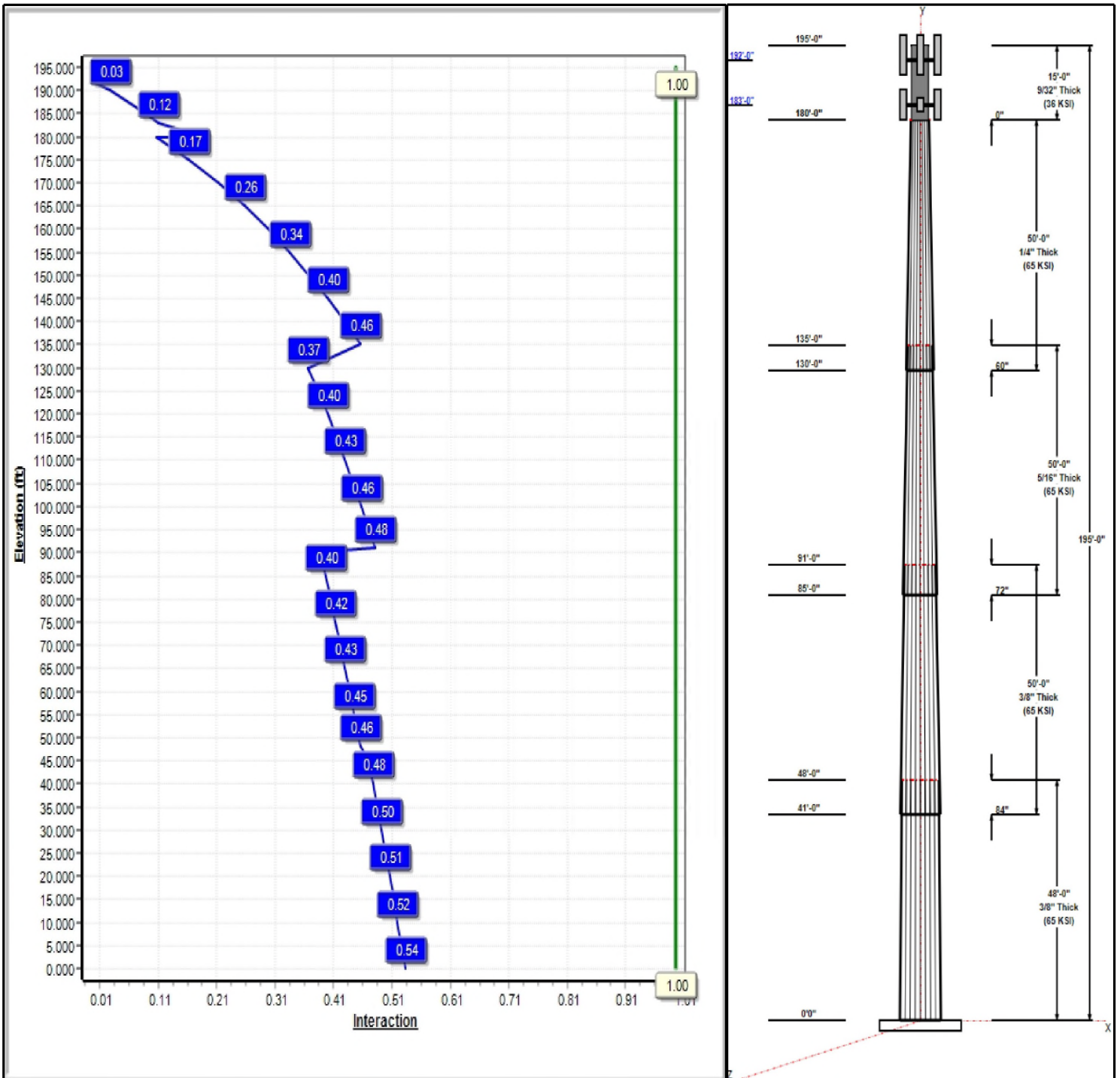
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 120 mph Wind



Iterations: 26

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Structure: CT01944-S-SBA

Type: Custom
Site Name: Harwinton
Height: 195.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.23542

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Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	48.00	53.20	64.50	0.375		0.23542	65
2	50.00	43.83	55.60	0.375	Slip	0.23542	65
3	50.00	34.09	45.86	0.313	Slip	0.23542	65
4	50.00	24.00	35.77	0.250	Slip	0.23542	65
5	15.00	24.00	24.00	0.281	Butt	0.00000	36

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
195.00	195.00	1	6' Lightning rod	N/A
192.00	193.00	3	APXV18-206516S-C-A20	T-Mobile
192.00	192.00	3	782 11056	T-Mobile
192.00	192.00	1	Low Profile Platform	T-Mobile
192.00	192.00	1	MS-KI22-5 (Kickers w/o	T-Mobile
192.00	192.00	1	MS-HRECP	T-Mobile
192.00	193.00	3	RFS	T-Mobile
192.00	193.00	3	KRY 112 489/2	T-Mobile
192.00	193.00	3	Radio 4449 B71+B12	T-Mobile
183.00	183.00	3	MT6407-77A	Verizon
183.00	183.00	1	Low Profile Platform	Verizon
183.00	183.00	1	MS-KI22-5 (Kickers w/o	Verizon
183.00	183.00	1	MS-H1436 (Heavy Collar	Verizon
183.00	183.00	1	Support Rail w/ end	Verizon
183.00	183.00	6	MX06FRO660-03	Verizon
183.00	183.00	3	RFV01U-D1A	Verizon
183.00	183.00	3	RFV01U-D2A	Verizon
183.00	183.00	1	DB-C1-12C-24AB-0Z	Verizon

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	192.00	Inside	1 5/8" Fiber	T-Mobile
0.00	192.00	Inside	1 5/8" Coax	T-Mobile
0.00	183.00	Inside	1 5/8" Coax	Verizon
0.00	183.00	Inside	1 5/8" Hybrid	Verizon

Anchor Bolts

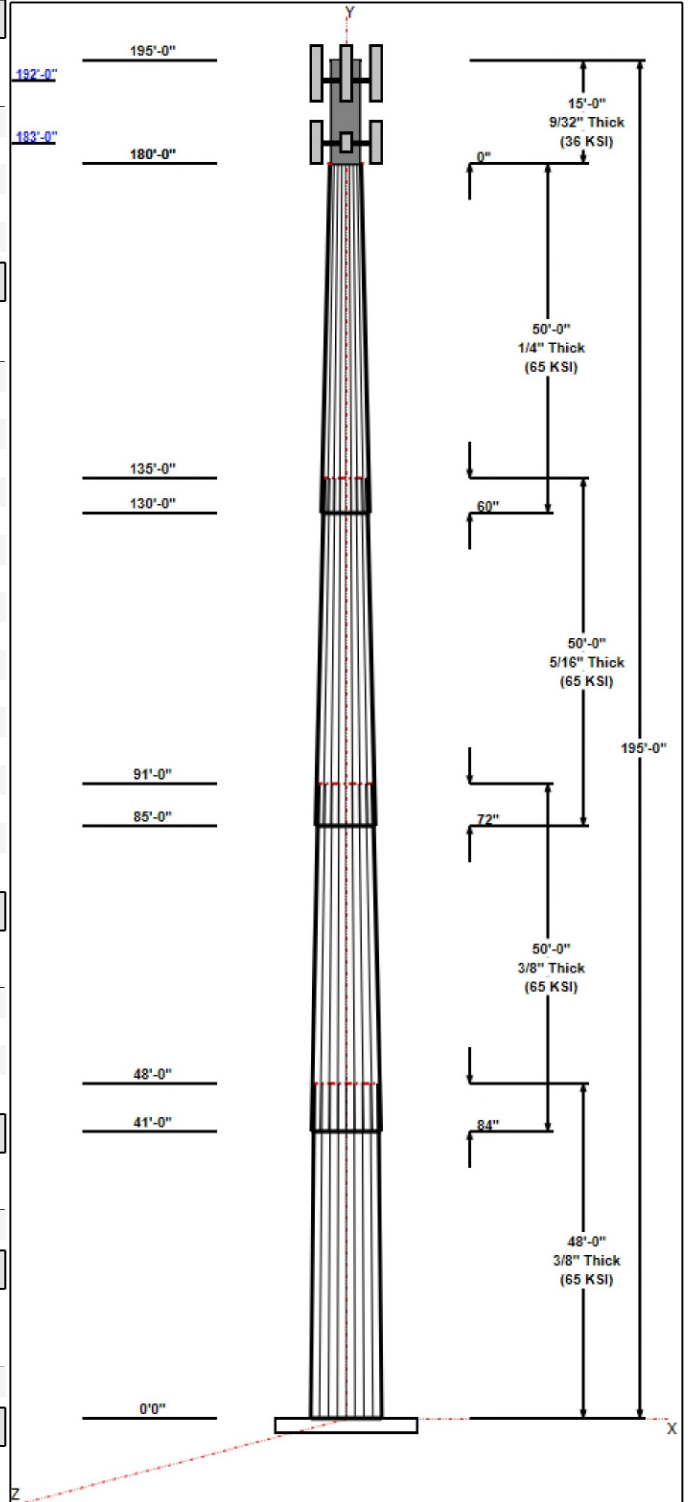
Qty	Specifications	Grade (ksi)	Arrangement
24	2.00" A687	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	64.5	45.0	Polygon

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 120 mph Wind	3216.9	25.2	54.1
0.9D + 1.0W 120 mph Wind	3176.5	25.2	40.6
1.2D + 1.0Di + 1.0Wi 50 mph Wind	847.5	6.8	71.1
1.2D + 1.0Ev + 1.0Eh	126.3	0.7	55.9
0.9D + 1.0Ev + 1.0Eh	125.2	0.7	42.3



Structure: CT01944-S-SBA

Type: Custom
Site Name: Harwinton
Height: 195.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.00000

8/20/2021

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1.0D + 1.0W 60 mph Wind 714.1 5.6 45.1

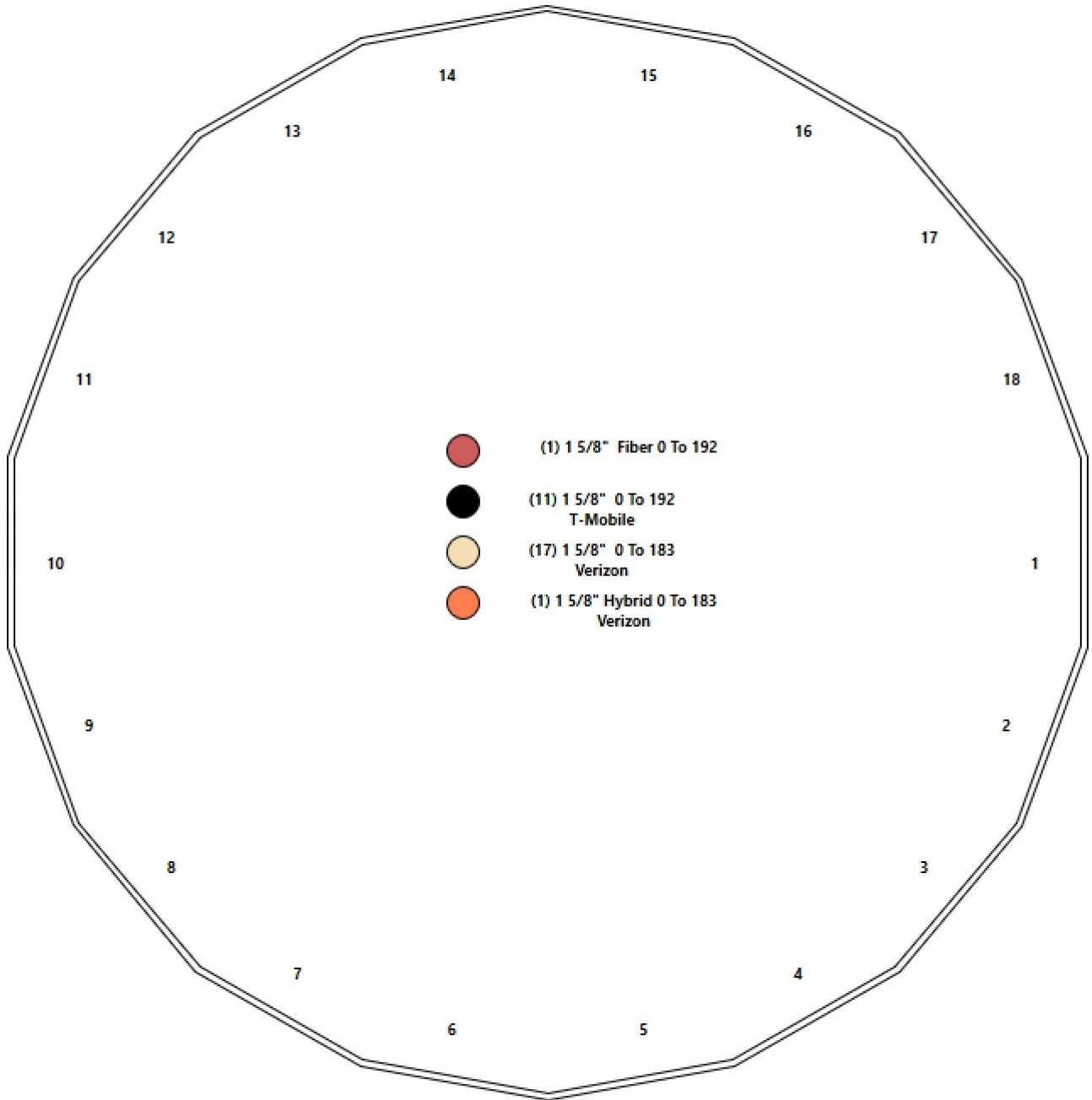
Structure: CT01944-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Harwinton
Height: 195.00 (ft)

8/20/2021



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Shaft Properties

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	48.000	0.3750	65		0.00	11,368
2	18	50.000	0.3750	65	Slip	84.00	9,991
3	18	50.000	0.3125	65	Slip	72.00	6,694
4	18	50.000	0.2500	65	Slip	60.00	4,001
5	R	15.000	0.2810	36	Flange	0.00	1,069
Total Shaft Weight:							33,122

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	64.50	0.00	76.32	39651.33	28.92	172.00	53.20	48.00	62.87	22166.3	23.60	141.8	0.235417
2	55.60	41.00	65.73	25324.08	24.73	148.26	43.83	91.00	51.72	12336.9	19.20	116.8	0.235417
3	45.86	85.00	45.18	11844.57	24.47	146.77	34.09	135.00	33.51	4830.83	17.83	109.1	0.235417
4	35.77	130.0	28.18	4492.97	23.82	143.08	24.00	180.00	18.84	1343.00	15.52	96.00	0.235417
5	24.00	180.0	20.94	1473.63	0.00	85.41	24.00	195.00	20.94	1473.63	0.00	85.41	0.000000

Load Summary

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	195.00	6' Lightning rod	1	6.50	0.38	1.00	31.34	1.124	1.00	0.00	0.00
2	192.00	APXV18-206516S-C-A20	3	18.70	3.61	0.73	66.58	4.879	0.50	0.00	1.00
3	192.00	782 11056	3	1.80	0.28	0.87	3.99	0.554	0.50	0.00	0.00
4	192.00	Low Profile Platform	1	1500.00	22.00	1.00	2394.42	34.069	1.00	0.00	0.00
5	192.00	MS-KI22-5 (Kickers w/o Collar)	1	146.00	5.33	1.00	285.29	9.144	1.00	0.00	0.00
6	192.00	MS-HRECP	1	514.00	12.25	1.00	930.82	20.431	1.00	0.00	0.00
7	192.00	RFS APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	402.17	21.523	0.50	0.00	1.00
8	192.00	KRY 112 489/2	3	13.20	0.68	1.00	25.74	1.122	0.50	0.00	1.00
9	192.00	Radio 4449 B71+B12	3	70.00	1.65	0.67	112.93	2.005	0.67	0.00	1.00
10	183.00	MT6407-77A	3	79.40	4.69	0.70	155.32	5.327	0.50	0.00	0.00
11	183.00	Low Profile Platform	1	1500.00	22.00	1.00	2390.13	34.011	1.00	0.00	0.00
12	183.00	MS-KI22-5 (Kickers w/o Collar)	1	146.00	5.33	1.00	284.62	9.126	1.00	0.00	0.00
13	183.00	MS-H1436 (Heavy Collar Mount)	1	136.70	2.25	1.00	266.49	3.852	1.00	0.00	0.00
14	183.00	Support Rail w/ end Connection	1	514.00	12.25	1.00	928.83	20.392	1.00	0.00	0.00
15	183.00	MX06FRO660-03	6	46.00	9.87	0.87	220.05	10.789	0.50	0.00	0.00
16	183.00	RFV01U-D1A	3	84.40	1.88	0.67	119.26	2.255	0.67	0.00	0.00
17	183.00	RFV01U-D2A	3	70.30	1.88	0.67	103.37	2.255	0.67	0.00	0.00
18	183.00	DB-C1-12C-24AB-0Z	1	32.00	4.06	0.90	109.48	4.619	0.50	0.00	0.00
Totals:			39	6,168.60			11,909.81				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	192.00	(1) 1 5/8" Fiber	0.00	Inside
0.00	192.00	(11) 1 5/8" Coax	0.00	Inside
0.00	183.00	(17) 1 5/8" Coax	0.00	Inside
0.00	183.00	(1) 1 5/8" Hybrid	0.00	Inside

Shaft Section Properties

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.3750	64.500	76.322	39651.3	28.92	172.00	67.4	1210.	0.0
5.00		0.3750	63.323	74.921	37507.6	28.36	168.86	68.0	1166.	1286.6
10.00		0.3750	62.146	73.520	35442.6	27.81	165.72	68.7	1123.	1262.8
15.00		0.3750	60.969	72.119	33454.9	27.26	162.58	69.3	1080.	1238.9
20.00		0.3750	59.792	70.718	31542.8	26.70	159.44	70.0	1039.	1215.1
25.00		0.3750	58.615	69.317	29705.1	26.15	156.31	70.6	998.2	1191.3
30.00		0.3750	57.437	67.916	27940.1	25.60	153.17	71.3	958.1	1167.4
35.00		0.3750	56.260	66.515	26246.5	25.04	150.03	71.9	918.9	1143.6
40.00		0.3750	55.083	65.114	24622.7	24.49	146.89	72.6	880.4	1119.8
41.00	Bot - Section 2	0.3750	54.848	64.834	24306.2	24.38	146.26	72.7	872.8	221.1
45.00		0.3750	53.906	63.713	23067.4	23.94	143.75	73.2	842.8	1761.8
48.00	Top - Section 1	0.3750	53.950	63.765	23124.0	23.96	143.87	0.0	0.0	1301.3
50.00		0.3750	53.479	63.205	22519.6	23.74	142.61	73.5	829.4	432.1
55.00		0.3750	52.302	61.804	21055.1	23.18	139.47	74.1	792.9	1063.4
60.00		0.3750	51.125	60.403	19655.5	22.63	136.33	74.8	757.2	1039.6
65.00		0.3750	49.948	59.002	18319.3	22.08	133.19	75.4	722.4	1015.8
70.00		0.3750	48.771	57.601	17045.1	21.52	130.06	76.1	688.4	991.9
75.00		0.3750	47.594	56.200	15831.4	20.97	126.92	76.7	655.2	968.1
80.00		0.3750	46.417	54.799	14676.7	20.41	123.78	77.4	622.8	944.3
85.00	Bot - Section 3	0.3750	45.240	53.398	13579.6	19.86	120.64	78.0	591.2	920.4
90.00		0.3750	44.062	51.997	12538.5	19.31	117.50	78.7	560.5	1655.4
91.00	Top - Section 2	0.3125	44.452	43.779	10776.5	23.67	142.25	0.0	0.0	325.8
95.00		0.3125	43.510	42.845	10101.4	23.14	139.23	74.2	457.3	589.5
100.00		0.3125	42.333	41.678	9298.0	22.48	135.47	75.0	432.6	719.0
105.00		0.3125	41.156	40.510	8538.3	21.81	131.70	75.7	408.6	699.2
110.00		0.3125	39.979	39.343	7821.2	21.15	127.93	76.5	385.3	679.3
115.00		0.3125	38.802	38.175	7145.4	20.48	124.17	77.3	362.7	659.4
120.00		0.3125	37.625	37.008	6509.6	19.82	120.40	78.1	340.8	639.6
125.00		0.3125	36.448	35.841	5912.8	19.15	116.63	78.9	319.5	619.7
130.00	Bot - Section 4	0.3125	35.271	34.673	5353.6	18.49	112.87	79.7	299.0	599.9
135.00	Top - Section 3	0.2500	34.594	27.251	4060.9	22.99	138.37	0.0	0.0	1051.6
140.00		0.2500	33.417	26.317	3657.5	22.16	133.67	75.3	215.6	455.7
145.00		0.2500	32.240	25.383	3281.8	21.33	128.96	76.3	200.5	439.8
150.00		0.2500	31.062	24.449	2932.7	20.50	124.25	77.3	186.0	423.9
155.00		0.2500	29.885	23.515	2609.3	19.67	119.54	78.3	172.0	408.0
160.00		0.2500	28.708	22.581	2310.5	18.84	114.83	79.2	158.5	392.1
165.00		0.2500	27.531	21.647	2035.5	18.01	110.12	80.2	145.6	376.2
170.00		0.2500	26.354	20.713	1783.3	17.18	105.42	81.2	133.3	360.4
175.00		0.2500	25.177	19.779	1552.7	16.35	100.71	82.2	121.5	344.5
180.00	Top - Section 4	0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	328.6
180.00	Bot - Section 5	0.2810	24.000	20.939	1473.6	13.80	85.41	36.0	122.8	
183.00		0.2810	24.000	20.939	1473.6	0.00	85.41	36.0	122.8	213.8
185.00		0.2810	24.000	20.939	1473.6	0.00	85.41	36.0	122.8	142.5
190.00		0.2810	24.000	20.939	1473.6	0.00	85.41	36.0	122.8	356.3
192.00		0.2810	24.000	20.939	1473.6	0.00	85.41	36.0	122.8	142.5
195.00		0.2810	24.000	20.939	1473.6	0.00	85.41	36.0	122.8	213.8

33121.7

Wind Loading - Shaft

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 26

Dead Load Factor 1.20

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	23.657	26.02	538.30	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	23.657	26.02	528.48	0.730	0.000	5.00	27.041	19.74	513.7	0.0	1543.9
10.00		1.00	0.70	23.657	26.02	518.66	0.730	0.000	5.00	26.543	19.38	504.2	0.0	1515.3
15.00		1.00	0.70	23.657	26.02	508.83	0.730	0.000	5.00	26.045	19.01	494.8	0.0	1486.7
20.00		1.00	0.70	23.657	26.02	499.01	0.730	0.000	5.00	25.547	18.65	485.3	0.0	1458.1
25.00		1.00	0.70	23.657	26.02	489.18	0.730	0.000	5.00	25.049	18.29	475.8	0.0	1429.5
30.00		1.00	0.70	23.677	26.04	479.56	0.730	0.000	5.00	24.550	17.92	466.8	0.0	1400.9
35.00		1.00	0.73	24.743	27.22	480.19	0.730	0.000	5.00	24.052	17.56	477.9	0.0	1372.3
40.00		1.00	0.76	25.705	28.28	479.20	0.730	0.000	5.00	23.554	17.19	486.2	0.0	1343.7
41.00	Bot - Section 2	1.00	0.77	25.887	28.48	478.84	0.730	0.000	1.00	4.651	3.40	96.7	0.0	265.3
45.00		1.00	0.79	26.585	29.24	476.92	0.730	0.000	4.00	18.659	13.62	398.3	0.0	2114.2
48.00	Top - Section 1	1.00	0.80	27.080	29.79	475.03	0.730	0.000	3.00	13.785	10.06	299.8	0.0	1561.6
50.00		1.00	0.81	27.398	30.14	480.32	0.730	0.000	2.00	9.091	6.64	200.0	0.0	518.5
55.00		1.00	0.83	28.154	30.97	476.18	0.730	0.000	5.00	22.378	16.34	505.9	0.0	1276.1
60.00		1.00	0.85	28.863	31.75	471.29	0.730	0.000	5.00	21.880	15.97	507.1	0.0	1247.5
65.00		1.00	0.87	29.530	32.48	465.73	0.730	0.000	5.00	21.382	15.61	507.0	0.0	1218.9
70.00		1.00	0.89	30.162	33.18	459.60	0.730	0.000	5.00	20.884	15.25	505.8	0.0	1190.3
75.00		1.00	0.91	30.763	33.84	452.95	0.730	0.000	5.00	20.386	14.88	503.6	0.0	1161.7
80.00		1.00	0.93	31.335	34.47	445.84	0.730	0.000	5.00	19.888	14.52	500.4	0.0	1133.1
85.00	Bot - Section 3	1.00	0.94	31.883	35.07	438.31	0.730	0.000	5.00	19.390	14.15	496.4	0.0	1104.5
90.00		1.00	0.96	32.408	35.65	430.41	0.730	0.000	5.00	19.156	13.98	498.5	0.0	1986.4
91.00	Top - Section 2	1.00	0.96	32.510	35.76	428.78	0.730	0.000	1.00	3.771	2.75	98.5	0.0	391.0
95.00		1.00	0.97	32.912	36.20	428.31	0.730	0.000	4.00	14.887	10.87	393.4	0.0	707.4
100.00		1.00	0.99	33.398	36.74	419.79	0.730	0.000	5.00	18.160	13.26	487.0	0.0	862.8
105.00		1.00	1.00	33.867	37.25	410.97	0.730	0.000	5.00	17.662	12.89	480.3	0.0	839.0
110.00		1.00	1.02	34.320	37.75	401.88	0.730	0.000	5.00	17.164	12.53	473.0	0.0	815.2
115.00		1.00	1.03	34.759	38.23	392.53	0.730	0.000	5.00	16.666	12.17	465.2	0.0	791.3
120.00		1.00	1.04	35.184	38.70	382.94	0.730	0.000	5.00	16.168	11.80	456.8	0.0	767.5
125.00		1.00	1.05	35.597	39.16	373.13	0.730	0.000	5.00	15.670	11.44	447.9	0.0	743.7
130.00	Bot - Section 4	1.00	1.07	35.998	39.60	363.11	0.730	0.000	5.00	15.172	11.08	438.6	0.0	719.8
135.00	Top - Section 3	1.00	1.08	36.388	40.03	352.89	0.730	0.000	5.00	14.885	10.87	434.9	0.0	1261.9
140.00		1.00	1.09	36.768	40.45	347.68	0.730	0.000	5.00	14.387	10.50	424.8	0.0	546.8
145.00		1.00	1.10	37.139	40.85	337.12	0.730	0.000	5.00	13.889	10.14	414.2	0.0	527.8
150.00		1.00	1.11	37.500	41.25	326.39	0.730	0.000	5.00	13.391	9.78	403.3	0.0	508.7
155.00		1.00	1.12	37.853	41.64	315.50	0.730	0.000	5.00	12.893	9.41	391.9	0.0	489.6
160.00		1.00	1.13	38.198	42.02	304.45	0.730	0.000	5.00	12.395	9.05	380.2	0.0	470.6
165.00		1.00	1.14	38.536	42.39	293.25	0.730	0.000	5.00	11.897	8.69	368.2	0.0	451.5
170.00		1.00	1.15	38.866	42.75	281.91	0.730	0.000	5.00	11.399	8.32	355.8	0.0	432.4
175.00		1.00	1.16	39.189	43.11	270.44	0.730	0.000	5.00	10.901	7.96	343.0	0.0	413.4
180.00	Top - Section 4	1.00	1.17	39.506	43.46	258.84	0.730	0.000	5.00	10.403	7.59	330.0	0.0	394.3
183.00	Appurtenance(s)	1.00	1.17	39.693	43.66	255.51	0.600	0.000	3.00	6.000	3.60	157.2	0.0	256.5
185.00		1.00	1.18	39.816	43.80	255.90	0.600	0.000	2.00	4.000	2.40	105.1	0.0	171.0
190.00		1.00	1.19	40.121	44.13	256.88	0.600	0.000	5.00	10.000	6.00	264.8	0.0	427.5
192.00	Appurtenance(s)	1.00	1.19	40.241	44.26	257.27	0.600	0.000	2.00	4.000	2.40	106.2	0.0	171.0
195.00	Appurtenance(s)	1.00	1.20	40.419	44.46	257.84	0.600	0.000	3.00	6.000	3.60	160.1	0.0	256.5
Totals:									195.00			17,304.6		39,746.1

Discrete Appurtenance Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

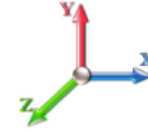


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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 26

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	6' Lightning rod	1	40.419	44.461	1.00	1.00	0.38	7.80	0.000	0.000	16.90	0.00	0.00
2	192.00	782 11056	3	40.241	44.265	0.65	0.75	0.55	6.48	0.000	0.000	24.26	0.00	0.00
3	192.00	Radio 4449 B71+B12	3	40.301	44.331	0.50	0.75	2.49	252.00	0.000	1.000	110.27	0.00	110.27
4	192.00	KRY 112 489/2	3	40.301	44.331	0.75	0.75	1.53	47.52	0.000	1.000	67.83	0.00	67.83
5	192.00	RFS	3	40.301	44.331	0.52	0.75	31.88	460.80	0.000	1.000	1413.17	0.00	1413.17
6	192.00	MS-HRECP	1	40.241	44.265	1.00	1.00	12.25	616.80	0.000	0.000	542.24	0.00	0.00
7	192.00	MS-KI22-5 (Kickers w/o	1	40.241	44.265	1.00	1.00	5.33	175.20	0.000	0.000	235.93	0.00	0.00
8	192.00	Low Profile Platform	1	40.241	44.265	1.00	1.00	22.00	1800.00	0.000	0.000	973.83	0.00	0.00
9	192.00	APXV18-206516S-C-A20	3	40.301	44.331	0.55	0.75	5.93	67.32	0.000	1.000	262.85	0.00	262.85
10	183.00	MT6407-77A	3	39.693	43.662	0.52	0.75	7.39	285.84	0.000	0.000	322.52	0.00	0.00
11	183.00	DB-C1-12C-24AB-0Z	1	39.693	43.662	0.68	0.75	2.74	38.40	0.000	0.000	119.66	0.00	0.00
12	183.00	RFV01U-D2A	3	39.693	43.662	0.50	0.75	2.83	253.08	0.000	0.000	123.74	0.00	0.00
13	183.00	RFV01U-D1A	3	39.693	43.662	0.50	0.75	2.83	303.84	0.000	0.000	123.74	0.00	0.00
14	183.00	MX06FRO660-03	6	39.693	43.662	0.65	0.75	38.64	331.20	0.000	0.000	1687.14	0.00	0.00
15	183.00	Support Rail w/ end	1	39.693	43.662	1.00	1.00	12.25	616.80	0.000	0.000	534.86	0.00	0.00
16	183.00	MS-H1436 (Heavy Collar	1	39.693	43.662	1.00	1.00	2.25	164.04	0.000	0.000	98.24	0.00	0.00
17	183.00	MS-KI22-5 (Kickers w/o	1	39.693	43.662	1.00	1.00	5.33	175.20	0.000	0.000	232.72	0.00	0.00
18	183.00	Low Profile Platform	1	39.693	43.662	1.00	1.00	22.00	1800.00	0.000	0.000	960.56	0.00	0.00

Totals: 7,402.32

7,850.44

Total Applied Force Summary

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

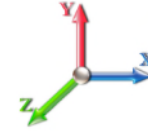


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Load Case: 1.2D + 1.0W 120 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		513.68	1731.50	0.00	0.00
10.00		504.22	1702.90	0.00	0.00
15.00		494.76	1674.29	0.00	0.00
20.00		485.30	1645.69	0.00	0.00
25.00		475.84	1617.09	0.00	0.00
30.00		466.77	1588.48	0.00	0.00
35.00		477.89	1559.88	0.00	0.00
40.00		486.20	1531.28	0.00	0.00
41.00		96.69	302.82	0.00	0.00
45.00		398.33	2264.23	0.00	0.00
48.00		299.76	1674.15	0.00	0.00
50.00		200.00	593.49	0.00	0.00
55.00		505.91	1463.69	0.00	0.00
60.00		507.10	1435.09	0.00	0.00
65.00		507.02	1406.49	0.00	0.00
70.00		505.81	1377.88	0.00	0.00
75.00		503.58	1349.28	0.00	0.00
80.00		500.42	1320.68	0.00	0.00
85.00		496.41	1292.07	0.00	0.00
90.00		498.51	2173.98	0.00	0.00
91.00		98.46	428.50	0.00	0.00
95.00		393.43	857.48	0.00	0.00
100.00		487.03	1050.40	0.00	0.00
105.00		480.32	1026.57	0.00	0.00
110.00		473.02	1002.73	0.00	0.00
115.00		465.17	978.89	0.00	0.00
120.00		456.79	955.06	0.00	0.00
125.00		447.91	931.22	0.00	0.00
130.00		438.56	907.39	0.00	0.00
135.00		434.95	1449.45	0.00	0.00
140.00		424.79	734.40	0.00	0.00
145.00		414.22	715.33	0.00	0.00
150.00		403.25	696.26	0.00	0.00
155.00		391.91	677.19	0.00	0.00
160.00		380.20	658.12	0.00	0.00
165.00		368.15	639.05	0.00	0.00
170.00		355.76	619.98	0.00	0.00
175.00		343.05	600.91	0.00	0.00
180.00		330.02	581.85	0.00	0.00
183.00	(20) attachments	4360.35	4337.44	0.00	0.00
185.00		105.11	200.95	0.00	0.00
190.00		264.80	502.38	0.00	0.00
192.00	(18) attachments	3736.62	3627.07	0.00	1854.12
195.00	(1) attachments	176.96	264.30	0.00	0.00
Totals:		25,155.03	54,147.90	0.00	1,854.12

Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

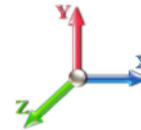


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Load Case: 1.2D + 1.0W 120 mph Wind

Iterations 26

Dead Load Factor 1.20
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-54.12	-25.21	0.00	-3216.9	0.00	3216.92	4628.91	1339.45	7126.38	6119.66	0.00	0.000	0.000	0.538
5.00	-52.34	-24.80	0.00	-3090.8	0.00	3090.88	4587.84	1314.86	6867.16	5953.37	0.06	-0.113	0.000	0.531
10.00	-50.59	-24.39	0.00	-2966.8	0.00	2966.89	4545.12	1290.28	6612.74	5787.00	0.24	-0.228	0.000	0.524
15.00	-48.87	-23.99	0.00	-2844.9	0.00	2844.94	4500.76	1265.69	6363.12	5620.67	0.54	-0.345	0.000	0.517
20.00	-47.18	-23.59	0.00	-2725.0	0.00	2725.01	4454.76	1241.10	6118.30	5454.49	0.97	-0.463	0.000	0.511
25.00	-45.52	-23.19	0.00	-2607.0	0.00	2607.07	4407.12	1216.52	5878.29	5288.58	1.52	-0.583	0.000	0.504
30.00	-43.89	-22.80	0.00	-2491.0	0.00	2491.09	4357.84	1191.93	5643.07	5123.07	2.19	-0.705	0.000	0.497
35.00	-42.28	-22.40	0.00	-2377.0	0.00	2377.08	4306.92	1167.34	5412.67	4958.08	3.00	-0.829	0.000	0.490
40.00	-40.73	-21.94	0.00	-2265.0	0.00	2265.09	4254.35	1142.76	5187.06	4793.73	3.94	-0.955	0.000	0.482
41.00	-40.41	-21.89	0.00	-2243.1	0.00	2243.15	4243.64	1137.84	5142.51	4760.94	4.14	-0.981	0.000	0.481
45.00	-38.11	-21.51	0.00	-2155.6	0.00	2155.61	4200.14	1118.17	4966.25	4630.13	5.01	-1.084	0.000	0.475
48.00	-36.42	-21.22	0.00	-2091.0	0.00	2091.09	4202.19	1119.08	4974.38	4636.19	5.71	-1.163	0.000	0.460
50.00	-35.80	-21.06	0.00	-2048.6	0.00	2048.66	4180.07	1109.25	4887.33	4570.98	6.21	-1.216	0.000	0.457
55.00	-34.30	-20.60	0.00	-1943.3	0.00	1943.36	4123.62	1084.66	4673.07	4408.60	7.55	-1.342	0.000	0.449
60.00	-32.84	-20.13	0.00	-1840.3	0.00	1840.38	4065.54	1060.07	4463.61	4247.27	9.03	-1.470	0.000	0.442
65.00	-31.40	-19.66	0.00	-1739.7	0.00	1739.74	4005.81	1035.49	4258.96	4087.10	10.63	-1.599	0.000	0.434
70.00	-29.99	-19.18	0.00	-1641.4	0.00	1641.46	3944.44	1010.90	4059.10	3928.21	12.38	-1.731	0.000	0.426
75.00	-28.62	-18.70	0.00	-1545.5	0.00	1545.56	3881.43	986.31	3864.05	3770.72	14.26	-1.864	0.000	0.418
80.00	-27.27	-18.22	0.00	-1452.0	0.00	1452.06	3816.78	961.72	3673.81	3614.75	16.29	-1.998	0.000	0.409
85.00	-25.95	-17.74	0.00	-1360.9	0.00	1360.96	3750.48	937.14	3488.36	3460.42	18.45	-2.135	0.000	0.401
90.00	-23.78	-17.19	0.00	-1272.2	0.00	1272.26	3682.55	912.55	3307.72	3307.86	20.76	-2.272	0.000	0.391
91.00	-23.33	-17.11	0.00	-1255.0	0.00	1255.07	2898.33	768.33	2813.78	2634.30	21.24	-2.301	0.000	0.485
95.00	-22.45	-16.73	0.00	-1186.6	0.00	1186.64	2860.60	751.94	2695.00	2544.15	23.22	-2.414	0.000	0.475
100.00	-21.38	-16.26	0.00	-1102.9	0.00	1102.99	2811.95	731.45	2550.13	2432.25	25.83	-2.575	0.000	0.462
105.00	-20.33	-15.79	0.00	-1021.6	0.00	1021.69	2761.66	710.96	2409.26	2321.34	28.61	-2.737	0.000	0.448
110.00	-19.31	-15.32	0.00	-942.74	0.00	942.74	2709.73	690.47	2272.40	2211.55	31.57	-2.901	0.000	0.434
115.00	-18.31	-14.86	0.00	-866.12	0.00	866.12	2656.16	669.98	2139.54	2103.00	34.69	-3.066	0.000	0.419
120.00	-17.34	-14.40	0.00	-791.81	0.00	791.81	2600.95	649.49	2010.67	1995.80	37.99	-3.231	0.000	0.404
125.00	-16.40	-13.95	0.00	-719.80	0.00	719.80	2544.10	629.00	1885.82	1890.08	41.46	-3.396	0.000	0.388
130.00	-15.48	-13.50	0.00	-650.06	0.00	650.06	2485.60	608.51	1764.96	1785.96	45.10	-3.561	0.000	0.371
135.00	-14.02	-13.01	0.00	-582.56	0.00	582.56	1823.78	478.25	1362.76	1289.51	48.92	-3.724	0.000	0.460
140.00	-13.28	-12.58	0.00	-517.49	0.00	517.49	1784.40	461.86	1270.94	1218.11	52.90	-3.886	0.000	0.433
145.00	-12.55	-12.16	0.00	-454.57	0.00	454.57	1743.38	445.47	1182.33	1147.55	57.07	-4.075	0.000	0.404
150.00	-11.85	-11.75	0.00	-393.77	0.00	393.77	1700.71	429.08	1096.92	1077.96	61.44	-4.259	0.000	0.373
155.00	-11.17	-11.34	0.00	-335.04	0.00	335.04	1656.41	412.69	1014.72	1009.45	65.99	-4.436	0.000	0.339
160.00	-10.52	-10.94	0.00	-278.36	0.00	278.36	1610.46	396.29	935.71	942.14	70.72	-4.603	0.000	0.303
165.00	-9.88	-10.54	0.00	-223.68	0.00	223.68	1562.88	379.90	859.91	876.15	75.62	-4.758	0.000	0.262
170.00	-9.27	-10.16	0.00	-170.97	0.00	170.97	1513.65	363.51	787.30	811.61	80.68	-4.896	0.000	0.218
175.00	-8.69	-9.78	0.00	-120.20	0.00	120.20	1462.77	347.12	717.90	748.63	85.86	-5.012	0.000	0.167
180.00	-8.13	-9.41	0.00	-71.31	0.00	71.31	1400.09	330.73	651.70	682.38	91.16	-5.099	0.000	0.111
180.00	-8.13	-9.41	0.00	-71.31	0.00	71.31	678.42	203.53	25205.7	396.30	91.16	-5.099	0.000	0.194
183.00	-4.19	-4.68	0.00	-43.09	0.00	43.09	678.42	203.53	25205.7	396.30	94.37	-5.136	0.000	0.115
185.00	-4.00	-4.56	0.00	-33.73	0.00	33.73	678.42	203.53	25205.7	396.30	96.52	-5.151	0.000	0.092
190.00	-3.52	-4.25	0.00	-10.95	0.00	10.95	678.42	203.53	25205.7	396.30	101.92	-5.172	0.000	0.033
192.00	-0.25	-0.20	0.00	-0.60	0.00	0.60	678.42	203.53	25205.7	396.30	104.09	-5.175	0.000	0.002
195.00	0.00	-0.18	0.00	0.00	0.00	0.00	678.42	203.53	25205.7	396.30	107.34	-5.175	0.000	0.000

Wind Loading - Shaft

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

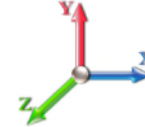


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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 26

Dead Load Factor 0.90
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	23.657	26.02	538.30	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	23.657	26.02	528.48	0.730	0.000	5.00	27.041	19.74	513.7	0.0	1158.0
10.00		1.00	0.70	23.657	26.02	518.66	0.730	0.000	5.00	26.543	19.38	504.2	0.0	1136.5
15.00		1.00	0.70	23.657	26.02	508.83	0.730	0.000	5.00	26.045	19.01	494.8	0.0	1115.1
20.00		1.00	0.70	23.657	26.02	499.01	0.730	0.000	5.00	25.547	18.65	485.3	0.0	1093.6
25.00		1.00	0.70	23.657	26.02	489.18	0.730	0.000	5.00	25.049	18.29	475.8	0.0	1072.1
30.00		1.00	0.70	23.677	26.04	479.56	0.730	0.000	5.00	24.550	17.92	466.8	0.0	1050.7
35.00		1.00	0.73	24.743	27.22	480.19	0.730	0.000	5.00	24.052	17.56	477.9	0.0	1029.2
40.00		1.00	0.76	25.705	28.28	479.20	0.730	0.000	5.00	23.554	17.19	486.2	0.0	1007.8
41.00	Bot - Section 2	1.00	0.77	25.887	28.48	478.84	0.730	0.000	1.00	4.651	3.40	96.7	0.0	199.0
45.00		1.00	0.79	26.585	29.24	476.92	0.730	0.000	4.00	18.659	13.62	398.3	0.0	1585.6
48.00	Top - Section 1	1.00	0.80	27.080	29.79	475.03	0.730	0.000	3.00	13.785	10.06	299.8	0.0	1171.2
50.00		1.00	0.81	27.398	30.14	480.32	0.730	0.000	2.00	9.091	6.64	200.0	0.0	388.8
55.00		1.00	0.83	28.154	30.97	476.18	0.730	0.000	5.00	22.378	16.34	505.9	0.0	957.1
60.00		1.00	0.85	28.863	31.75	471.29	0.730	0.000	5.00	21.880	15.97	507.1	0.0	935.6
65.00		1.00	0.87	29.530	32.48	465.73	0.730	0.000	5.00	21.382	15.61	507.0	0.0	914.2
70.00		1.00	0.89	30.162	33.18	459.60	0.730	0.000	5.00	20.884	15.25	505.8	0.0	892.7
75.00		1.00	0.91	30.763	33.84	452.95	0.730	0.000	5.00	20.386	14.88	503.6	0.0	871.3
80.00		1.00	0.93	31.335	34.47	445.84	0.730	0.000	5.00	19.888	14.52	500.4	0.0	849.8
85.00	Bot - Section 3	1.00	0.94	31.883	35.07	438.31	0.730	0.000	5.00	19.390	14.15	496.4	0.0	828.4
90.00		1.00	0.96	32.408	35.65	430.41	0.730	0.000	5.00	19.156	13.98	498.5	0.0	1489.8
91.00	Top - Section 2	1.00	0.96	32.510	35.76	428.78	0.730	0.000	1.00	3.771	2.75	98.5	0.0	293.2
95.00		1.00	0.97	32.912	36.20	428.31	0.730	0.000	4.00	14.887	10.87	393.4	0.0	530.6
100.00		1.00	0.99	33.398	36.74	419.79	0.730	0.000	5.00	18.160	13.26	487.0	0.0	647.1
105.00		1.00	1.00	33.867	37.25	410.97	0.730	0.000	5.00	17.662	12.89	480.3	0.0	629.3
110.00		1.00	1.02	34.320	37.75	401.88	0.730	0.000	5.00	17.164	12.53	473.0	0.0	611.4
115.00		1.00	1.03	34.759	38.23	392.53	0.730	0.000	5.00	16.666	12.17	465.2	0.0	593.5
120.00		1.00	1.04	35.184	38.70	382.94	0.730	0.000	5.00	16.168	11.80	456.8	0.0	575.6
125.00		1.00	1.05	35.597	39.16	373.13	0.730	0.000	5.00	15.670	11.44	447.9	0.0	557.7
130.00	Bot - Section 4	1.00	1.07	35.998	39.60	363.11	0.730	0.000	5.00	15.172	11.08	438.6	0.0	539.9
135.00	Top - Section 3	1.00	1.08	36.388	40.03	352.89	0.730	0.000	5.00	14.885	10.87	434.9	0.0	946.4
140.00		1.00	1.09	36.768	40.45	347.68	0.730	0.000	5.00	14.387	10.50	424.8	0.0	410.1
145.00		1.00	1.10	37.139	40.85	337.12	0.730	0.000	5.00	13.889	10.14	414.2	0.0	395.8
150.00		1.00	1.11	37.500	41.25	326.39	0.730	0.000	5.00	13.391	9.78	403.3	0.0	381.5
155.00		1.00	1.12	37.853	41.64	315.50	0.730	0.000	5.00	12.893	9.41	391.9	0.0	367.2
160.00		1.00	1.13	38.198	42.02	304.45	0.730	0.000	5.00	12.395	9.05	380.2	0.0	352.9
165.00		1.00	1.14	38.536	42.39	293.25	0.730	0.000	5.00	11.897	8.69	368.2	0.0	338.6
170.00		1.00	1.15	38.866	42.75	281.91	0.730	0.000	5.00	11.399	8.32	355.8	0.0	324.3
175.00		1.00	1.16	39.189	43.11	270.44	0.730	0.000	5.00	10.901	7.96	343.0	0.0	310.0
180.00	Top - Section 4	1.00	1.17	39.506	43.46	258.84	0.730	0.000	5.00	10.403	7.59	330.0	0.0	295.7
183.00	Appurtenance(s)	1.00	1.17	39.693	43.66	255.51	0.600	0.000	3.00	6.000	3.60	157.2	0.0	192.4
185.00		1.00	1.18	39.816	43.80	255.90	0.600	0.000	2.00	4.000	2.40	105.1	0.0	128.3
190.00		1.00	1.19	40.121	44.13	256.88	0.600	0.000	5.00	10.000	6.00	264.8	0.0	320.6
192.00	Appurtenance(s)	1.00	1.19	40.241	44.26	257.27	0.600	0.000	2.00	4.000	2.40	106.2	0.0	128.3
195.00	Appurtenance(s)	1.00	1.20	40.419	44.46	257.84	0.600	0.000	3.00	6.000	3.60	160.1	0.0	192.4
Totals:									195.00			17,304.6		29,809.6

Discrete Appurtenance Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

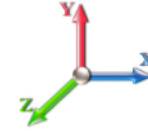


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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 26

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	6' Lightning rod	1	40.419	44.461	1.00	1.00	0.38	5.85	0.000	0.000	16.90	0.00	0.00
2	192.00	782 11056	3	40.241	44.265	0.65	0.75	0.55	4.86	0.000	0.000	24.26	0.00	0.00
3	192.00	Radio 4449 B71+B12	3	40.301	44.331	0.50	0.75	2.49	189.00	0.000	1.000	110.27	0.00	110.27
4	192.00	KRY 112 489/2	3	40.301	44.331	0.75	0.75	1.53	35.64	0.000	1.000	67.83	0.00	67.83
5	192.00	RFS	3	40.301	44.331	0.52	0.75	31.88	345.60	0.000	1.000	1413.17	0.00	1413.17
6	192.00	MS-HRECP	1	40.241	44.265	1.00	1.00	12.25	462.60	0.000	0.000	542.24	0.00	0.00
7	192.00	MS-KI22-5 (Kickers w/o	1	40.241	44.265	1.00	1.00	5.33	131.40	0.000	0.000	235.93	0.00	0.00
8	192.00	Low Profile Platform	1	40.241	44.265	1.00	1.00	22.00	1350.00	0.000	0.000	973.83	0.00	0.00
9	192.00	APXV18-206516S-C-A20	3	40.301	44.331	0.55	0.75	5.93	50.49	0.000	1.000	262.85	0.00	262.85
10	183.00	MT6407-77A	3	39.693	43.662	0.52	0.75	7.39	214.38	0.000	0.000	322.52	0.00	0.00
11	183.00	DB-C1-12C-24AB-0Z	1	39.693	43.662	0.68	0.75	2.74	28.80	0.000	0.000	119.66	0.00	0.00
12	183.00	RFV01U-D2A	3	39.693	43.662	0.50	0.75	2.83	189.81	0.000	0.000	123.74	0.00	0.00
13	183.00	RFV01U-D1A	3	39.693	43.662	0.50	0.75	2.83	227.88	0.000	0.000	123.74	0.00	0.00
14	183.00	MX06FRO660-03	6	39.693	43.662	0.65	0.75	38.64	248.40	0.000	0.000	1687.14	0.00	0.00
15	183.00	Support Rail w/ end	1	39.693	43.662	1.00	1.00	12.25	462.60	0.000	0.000	534.86	0.00	0.00
16	183.00	MS-H1436 (Heavy Collar	1	39.693	43.662	1.00	1.00	2.25	123.03	0.000	0.000	98.24	0.00	0.00
17	183.00	MS-KI22-5 (Kickers w/o	1	39.693	43.662	1.00	1.00	5.33	131.40	0.000	0.000	232.72	0.00	0.00
18	183.00	Low Profile Platform	1	39.693	43.662	1.00	1.00	22.00	1350.00	0.000	0.000	960.56	0.00	0.00

Totals: 5,551.74

7,850.44

Total Applied Force Summary

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		513.68	1298.62	0.00	0.00
10.00		504.22	1277.17	0.00	0.00
15.00		494.76	1255.72	0.00	0.00
20.00		485.30	1234.27	0.00	0.00
25.00		475.84	1212.82	0.00	0.00
30.00		466.77	1191.36	0.00	0.00
35.00		477.89	1169.91	0.00	0.00
40.00		486.20	1148.46	0.00	0.00
41.00		96.69	227.12	0.00	0.00
45.00		398.33	1698.18	0.00	0.00
48.00		299.76	1255.61	0.00	0.00
50.00		200.00	445.11	0.00	0.00
55.00		505.91	1097.77	0.00	0.00
60.00		507.10	1076.32	0.00	0.00
65.00		507.02	1054.86	0.00	0.00
70.00		505.81	1033.41	0.00	0.00
75.00		503.58	1011.96	0.00	0.00
80.00		500.42	990.51	0.00	0.00
85.00		496.41	969.06	0.00	0.00
90.00		498.51	1630.49	0.00	0.00
91.00		98.46	321.38	0.00	0.00
95.00		393.43	643.11	0.00	0.00
100.00		487.03	787.80	0.00	0.00
105.00		480.32	769.92	0.00	0.00
110.00		473.02	752.05	0.00	0.00
115.00		465.17	734.17	0.00	0.00
120.00		456.79	716.29	0.00	0.00
125.00		447.91	698.42	0.00	0.00
130.00		438.56	680.54	0.00	0.00
135.00		434.95	1087.09	0.00	0.00
140.00		424.79	550.80	0.00	0.00
145.00		414.22	536.50	0.00	0.00
150.00		403.25	522.19	0.00	0.00
155.00		391.91	507.89	0.00	0.00
160.00		380.20	493.59	0.00	0.00
165.00		368.15	479.29	0.00	0.00
170.00		355.76	464.99	0.00	0.00
175.00		343.05	450.69	0.00	0.00
180.00		330.02	436.38	0.00	0.00
183.00	(20) attachments	4360.35	3253.08	0.00	0.00
185.00		105.11	150.71	0.00	0.00
190.00		264.80	376.79	0.00	0.00
192.00	(18) attachments	3736.62	2720.30	0.00	1854.12
195.00	(1) attachments	176.96	198.23	0.00	0.00
Totals:		25,155.03	40,610.92	0.00	1,854.12

Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Load Case: 0.9D + 1.0W 120 mph Wind

Iterations 26

Dead Load Factor 0.90

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-40.59	-25.19	0.00	-3176.5	0.00	3176.53	4628.91	1339.45	7126.38	6119.66	0.00	0.000	0.000	0.528
5.00	-39.24	-24.76	0.00	-3050.5	0.00	3050.56	4587.84	1314.86	6867.16	5953.37	0.06	-0.112	0.000	0.521
10.00	-37.91	-24.32	0.00	-2926.7	0.00	2926.78	4545.12	1290.28	6612.74	5787.00	0.24	-0.225	0.000	0.514
15.00	-36.61	-23.90	0.00	-2805.1	0.00	2805.16	4500.76	1265.69	6363.12	5620.67	0.54	-0.340	0.000	0.508
20.00	-35.33	-23.48	0.00	-2685.6	0.00	2685.68	4454.76	1241.10	6118.30	5454.49	0.96	-0.457	0.000	0.501
25.00	-34.08	-23.06	0.00	-2568.3	0.00	2568.30	4407.12	1216.52	5878.29	5288.58	1.50	-0.575	0.000	0.494
30.00	-32.84	-22.65	0.00	-2453.0	0.00	2453.00	4357.84	1191.93	5643.07	5123.07	2.16	-0.696	0.000	0.487
35.00	-31.63	-22.22	0.00	-2339.7	0.00	2339.75	4306.92	1167.34	5412.67	4958.08	2.96	-0.818	0.000	0.480
40.00	-30.46	-21.76	0.00	-2228.6	0.00	2228.63	4254.35	1142.76	5187.06	4793.73	3.88	-0.941	0.000	0.472
41.00	-30.21	-21.69	0.00	-2206.8	0.00	2206.87	4243.64	1137.84	5142.51	4760.94	4.08	-0.967	0.000	0.471
45.00	-28.49	-21.31	0.00	-2120.0	0.00	2120.09	4200.14	1118.17	4966.25	4630.13	4.94	-1.068	0.000	0.465
48.00	-27.22	-21.02	0.00	-2056.1	0.00	2056.17	4202.19	1119.08	4974.38	4636.19	5.63	-1.146	0.000	0.450
50.00	-26.74	-20.85	0.00	-2014.1	0.00	2014.14	4180.07	1109.25	4887.33	4570.98	6.12	-1.198	0.000	0.447
55.00	-25.61	-20.37	0.00	-1909.9	0.00	1909.90	4123.62	1084.66	4673.07	4408.60	7.44	-1.322	0.000	0.440
60.00	-24.51	-19.90	0.00	-1808.0	0.00	1808.03	4065.54	1060.07	4463.61	4247.27	8.90	-1.447	0.000	0.432
65.00	-23.42	-19.41	0.00	-1708.5	0.00	1708.55	4005.81	1035.49	4258.96	4087.10	10.48	-1.575	0.000	0.424
70.00	-22.36	-18.93	0.00	-1611.4	0.00	1611.49	3944.44	1010.90	4059.10	3928.21	12.20	-1.703	0.000	0.416
75.00	-21.32	-18.44	0.00	-1516.8	0.00	1516.84	3881.43	986.31	3864.05	3770.72	14.05	-1.834	0.000	0.408
80.00	-20.31	-17.96	0.00	-1424.6	0.00	1424.63	3816.78	961.72	3673.81	3614.75	16.04	-1.966	0.000	0.400
85.00	-19.32	-17.47	0.00	-1334.8	0.00	1334.85	3750.48	937.14	3488.36	3460.42	18.17	-2.100	0.000	0.391
90.00	-17.68	-16.94	0.00	-1247.4	0.00	1247.49	3682.55	912.55	3307.72	3307.86	20.44	-2.235	0.000	0.382
91.00	-17.34	-16.85	0.00	-1230.5	0.00	1230.55	2898.33	768.33	2813.78	2634.30	20.92	-2.263	0.000	0.474
95.00	-16.68	-16.47	0.00	-1163.1	0.00	1163.16	2860.60	751.94	2695.00	2544.15	22.86	-2.374	0.000	0.464
100.00	-15.87	-15.99	0.00	-1080.8	0.00	1080.83	2811.95	731.45	2550.13	2432.25	25.43	-2.532	0.000	0.450
105.00	-15.08	-15.52	0.00	-1000.8	0.00	1000.87	2761.66	710.96	2409.26	2321.34	28.17	-2.691	0.000	0.437
110.00	-14.31	-15.05	0.00	-923.28	0.00	923.28	2709.73	690.47	2272.40	2211.55	31.07	-2.851	0.000	0.423
115.00	-13.56	-14.59	0.00	-848.03	0.00	848.03	2656.16	669.98	2139.54	2103.00	34.14	-3.012	0.000	0.409
120.00	-12.83	-14.13	0.00	-775.10	0.00	775.10	2600.95	649.49	2010.67	1995.80	37.38	-3.174	0.000	0.394
125.00	-12.12	-13.67	0.00	-704.47	0.00	704.47	2544.10	629.00	1885.82	1890.08	40.79	-3.335	0.000	0.378
130.00	-11.42	-13.23	0.00	-636.10	0.00	636.10	2485.60	608.51	1764.96	1785.96	44.37	-3.497	0.000	0.361
135.00	-10.33	-12.76	0.00	-569.95	0.00	569.95	1823.78	478.25	1362.76	1289.51	48.11	-3.657	0.000	0.448
140.00	-9.77	-12.33	0.00	-506.18	0.00	506.18	1784.40	461.86	1270.94	1218.11	52.03	-3.815	0.000	0.422
145.00	-9.23	-11.90	0.00	-444.55	0.00	444.55	1743.38	445.47	1182.33	1147.55	56.12	-4.000	0.000	0.393
150.00	-8.70	-11.49	0.00	-385.03	0.00	385.03	1700.71	429.08	1096.92	1077.96	60.40	-4.180	0.000	0.363
155.00	-8.19	-11.09	0.00	-327.57	0.00	327.57	1656.41	412.69	1014.72	1009.45	64.87	-4.353	0.000	0.330
160.00	-7.70	-10.69	0.00	-272.14	0.00	272.14	1610.46	396.29	935.71	942.14	69.52	-4.516	0.000	0.294
165.00	-7.22	-10.30	0.00	-218.68	0.00	218.68	1562.88	379.90	859.91	876.15	74.32	-4.667	0.000	0.255
170.00	-6.77	-9.93	0.00	-167.16	0.00	167.16	1513.65	363.51	787.30	811.61	79.28	-4.802	0.000	0.211
175.00	-6.33	-9.56	0.00	-117.53	0.00	117.53	1462.77	347.12	717.90	748.63	84.37	-4.916	0.000	0.162
180.00	-5.92	-9.20	0.00	-69.74	0.00	69.74	1400.09	330.73	651.70	682.38	89.56	-5.002	0.000	0.107
180.00	-5.92	-9.20	0.00	-69.74	0.00	69.74	678.42	203.53	25205.7	396.30	89.56	-5.002	0.000	0.187
183.00	-3.06	-4.57	0.00	-42.15	0.00	42.15	678.42	203.53	25205.7	396.30	92.71	-5.037	0.000	0.111
185.00	-2.91	-4.45	0.00	-33.01	0.00	33.01	678.42	203.53	25205.7	396.30	94.82	-5.052	0.000	0.088
190.00	-2.56	-4.16	0.00	-10.75	0.00	10.75	678.42	203.53	25205.7	396.30	100.12	-5.073	0.000	0.031
192.00	-0.18	-0.19	0.00	-0.58	0.00	0.58	678.42	203.53	25205.7	396.30	102.24	-5.075	0.000	0.002
195.00	0.00	-0.18	0.00	0.00	0.00	0.00	678.42	203.53	25205.7	396.30	105.43	-5.076	0.000	0.000

Wind Loading - Shaft

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.107	4.52	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.107	4.52	0.00	1.200	0.828	5.00	27.731	33.28	150.3	329.4	1873.4
10.00		1.00	0.70	4.107	4.52	0.00	1.200	0.887	5.00	27.282	32.74	147.9	346.9	1862.2
15.00		1.00	0.70	4.107	4.52	0.00	1.200	0.924	5.00	26.815	32.18	145.4	354.7	1841.5
20.00		1.00	0.70	4.107	4.52	0.00	1.200	0.951	5.00	26.339	31.61	142.8	358.3	1816.4
25.00		1.00	0.70	4.107	4.52	0.00	1.200	0.973	5.00	25.859	31.03	140.2	359.4	1788.9
30.00		1.00	0.70	4.111	4.52	0.00	1.200	0.991	5.00	25.376	30.45	137.7	358.9	1759.8
35.00		1.00	0.73	4.296	4.73	0.00	1.200	1.006	5.00	24.891	29.87	141.1	357.2	1729.5
40.00		1.00	0.76	4.463	4.91	0.00	1.200	1.019	5.00	24.404	29.28	143.8	354.7	1698.4
41.00	Bot - Section 2	1.00	0.77	4.494	4.94	0.00	1.200	1.022	1.00	4.821	5.79	28.6	70.8	336.1
45.00		1.00	0.79	4.615	5.08	0.00	1.200	1.032	4.00	19.347	23.22	117.9	285.0	2399.2
48.00	Top - Section 1	1.00	0.80	4.701	5.17	0.00	1.200	1.038	3.00	14.304	17.17	88.8	212.4	1774.0
50.00		1.00	0.81	4.757	5.23	0.00	1.200	1.042	2.00	9.438	11.33	59.3	141.0	659.4
55.00		1.00	0.83	4.888	5.38	0.00	1.200	1.052	5.00	23.255	27.91	150.0	348.2	1624.3
60.00		1.00	0.85	5.011	5.51	0.00	1.200	1.062	5.00	22.764	27.32	150.6	343.5	1591.1
65.00		1.00	0.87	5.127	5.64	0.00	1.200	1.070	5.00	22.273	26.73	150.7	338.5	1557.5
70.00		1.00	0.89	5.237	5.76	0.00	1.200	1.078	5.00	21.782	26.14	150.6	333.2	1523.6
75.00		1.00	0.91	5.341	5.87	0.00	1.200	1.086	5.00	21.290	25.55	150.1	327.7	1489.4
80.00		1.00	0.93	5.440	5.98	0.00	1.200	1.093	5.00	20.798	24.96	149.4	321.9	1455.0
85.00	Bot - Section 3	1.00	0.94	5.535	6.09	0.00	1.200	1.099	5.00	20.306	24.37	148.4	315.8	1420.4
90.00		1.00	0.96	5.626	6.19	0.00	1.200	1.106	5.00	20.077	24.09	149.1	313.9	2300.3
91.00	Top - Section 2	1.00	0.96	5.644	6.21	0.00	1.200	1.107	1.00	3.956	4.75	29.5	62.5	453.5
95.00		1.00	0.97	5.714	6.29	0.00	1.200	1.112	4.00	15.628	18.75	117.9	246.0	953.5
100.00		1.00	0.99	5.798	6.38	0.00	1.200	1.117	5.00	19.091	22.91	146.1	301.0	1163.8
105.00		1.00	1.00	5.880	6.47	0.00	1.200	1.123	5.00	18.598	22.32	144.3	294.3	1133.3
110.00		1.00	1.02	5.958	6.55	0.00	1.200	1.128	5.00	18.104	21.72	142.4	287.5	1102.7
115.00		1.00	1.03	6.035	6.64	0.00	1.200	1.133	5.00	17.610	21.13	140.3	280.5	1071.9
120.00		1.00	1.04	6.108	6.72	0.00	1.200	1.138	5.00	17.116	20.54	138.0	273.5	1041.0
125.00		1.00	1.05	6.180	6.80	0.00	1.200	1.142	5.00	16.622	19.95	135.6	266.3	1009.9
130.00	Bot - Section 4	1.00	1.07	6.250	6.87	0.00	1.200	1.147	5.00	16.128	19.35	133.0	259.0	978.8
135.00	Top - Section 3	1.00	1.08	6.317	6.95	0.00	1.200	1.151	5.00	15.845	19.01	132.1	255.1	1517.0
140.00		1.00	1.09	6.383	7.02	0.00	1.200	1.155	5.00	15.350	18.42	129.3	247.7	794.5
145.00		1.00	1.10	6.448	7.09	0.00	1.200	1.160	5.00	14.856	17.83	126.4	240.1	767.9
150.00		1.00	1.11	6.510	7.16	0.00	1.200	1.163	5.00	14.361	17.23	123.4	232.4	741.1
155.00		1.00	1.12	6.572	7.23	0.00	1.200	1.167	5.00	13.866	16.64	120.3	224.7	714.3
160.00		1.00	1.13	6.632	7.29	0.00	1.200	1.171	5.00	13.371	16.05	117.0	216.9	687.5
165.00		1.00	1.14	6.690	7.36	0.00	1.200	1.175	5.00	12.876	15.45	113.7	209.0	660.5
170.00		1.00	1.15	6.747	7.42	0.00	1.200	1.178	5.00	12.381	14.86	110.3	201.1	633.5
175.00		1.00	1.16	6.804	7.48	0.00	1.200	1.182	5.00	11.886	14.26	106.7	193.1	606.4
180.00	Top - Section 4	1.00	1.17	6.859	7.54	0.00	1.200	1.185	5.00	11.391	13.67	103.1	185.0	579.3
183.00	Appurtenance(s)	1.00	1.17	6.891	7.58	0.00	1.200	1.187	3.00	6.593	7.91	60.0	109.6	366.1
185.00		1.00	1.18	6.912	7.60	0.00	1.200	1.188	2.00	4.396	5.28	40.1	73.1	244.1
190.00		1.00	1.19	6.965	7.66	0.00	1.200	1.191	5.00	10.993	13.19	101.1	183.3	610.8
192.00	Appurtenance(s)	1.00	1.19	6.986	7.68	0.00	1.200	1.193	2.00	4.398	5.28	40.6	73.4	244.4
195.00	Appurtenance(s)	1.00	1.20	7.017	7.72	0.00	1.200	1.194	3.00	6.597	7.92	61.1	110.3	366.8
Totals:									195.00			5,255.0	50,943.0	

Discrete Appurtenance Forces

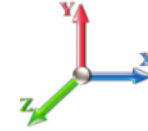
Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	6' Lightning rod	1	7.017	7.719	1.00	1.00	1.12	27.34	0.000	0.000	8.68	0.00	0.00
2	192.00	782 11056	3	6.986	7.685	0.38	0.75	0.62	-5.54	0.000	0.000	4.79	0.00	0.00
3	192.00	Radio 4449 B71+B12	3	6.997	7.696	0.50	0.75	3.02	380.79	0.000	1.000	23.26	0.00	23.26
4	192.00	KRY 112 489/2	3	6.997	7.696	0.38	0.75	1.26	70.13	0.000	1.000	9.72	0.00	9.72
5	192.00	RFS	3	6.997	7.696	0.38	0.75	24.21	1283.32	0.000	1.000	186.35	0.00	186.35
6	192.00	MS-HRECP	1	6.986	7.685	1.00	1.00	20.43	1547.62	0.000	0.000	157.01	0.00	0.00
7	192.00	MS-KI22-5 (Kickers w/o	1	6.986	7.685	1.00	1.00	9.14	250.49	0.000	0.000	70.27	0.00	0.00
8	192.00	Low Profile Platform	1	6.986	7.685	1.00	1.00	34.07	2394.42	0.000	0.000	261.81	0.00	0.00
9	192.00	APXV18-206516S-C-A20	3	6.997	7.696	0.38	0.75	5.49	150.97	0.000	1.000	42.25	0.00	42.25
10	183.00	MT6407-77A	3	6.891	7.580	0.38	0.75	5.99	513.60	0.000	0.000	45.43	0.00	0.00
11	183.00	DB-C1-12C-24AB-0Z	1	6.891	7.580	0.38	0.75	1.73	87.28	0.000	0.000	13.13	0.00	0.00
12	183.00	RFV01U-D2A	3	6.891	7.580	0.50	0.75	3.40	317.50	0.000	0.000	25.77	0.00	0.00
13	183.00	RFV01U-D1A	3	6.891	7.580	0.50	0.75	3.40	302.82	0.000	0.000	25.77	0.00	0.00
14	183.00	MX06FRO660-03	6	6.891	7.580	0.38	0.75	24.28	1375.48	0.000	0.000	184.01	0.00	0.00
15	183.00	Support Rail w/ end	1	6.891	7.580	1.00	1.00	20.39	1545.63	0.000	0.000	154.57	0.00	0.00
16	183.00	MS-H1436 (Heavy Collar	1	6.891	7.580	1.00	1.00	3.85	233.73	0.000	0.000	29.20	0.00	0.00
17	183.00	MS-KI22-5 (Kickers w/o	1	6.891	7.580	1.00	1.00	9.13	249.82	0.000	0.000	69.17	0.00	0.00
18	183.00	Low Profile Platform	1	6.891	7.580	1.00	1.00	34.01	2390.13	0.000	0.000	257.81	0.00	0.00

Totals: 13,115.53

1,569.00

Total Applied Force Summary

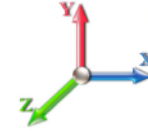
Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Page: 18
	Struct Class: II	



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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		150.34	2060.93	0.00	0.00
10.00		147.91	2049.81	0.00	0.00
15.00		145.37	2029.02	0.00	0.00
20.00		142.80	2003.98	0.00	0.00
25.00		140.19	1976.49	0.00	0.00
30.00		137.69	1947.38	0.00	0.00
35.00		141.14	1917.10	0.00	0.00
40.00		143.76	1885.94	0.00	0.00
41.00		28.60	373.64	0.00	0.00
45.00		117.87	2549.20	0.00	0.00
48.00		88.77	1886.55	0.00	0.00
50.00		59.26	734.46	0.00	0.00
55.00		150.04	1811.89	0.00	0.00
60.00		150.57	1778.63	0.00	0.00
65.00		150.73	1745.03	0.00	0.00
70.00		150.56	1711.13	0.00	0.00
75.00		150.09	1676.96	0.00	0.00
80.00		149.35	1642.55	0.00	0.00
85.00		148.36	1607.92	0.00	0.00
90.00		149.11	2487.90	0.00	0.00
91.00		29.47	491.03	0.00	0.00
95.00		117.87	1103.51	0.00	0.00
100.00		146.12	1351.40	0.00	0.00
105.00		144.34	1320.88	0.00	0.00
110.00		142.39	1290.22	0.00	0.00
115.00		140.27	1259.42	0.00	0.00
120.00		138.01	1228.51	0.00	0.00
125.00		135.60	1197.48	0.00	0.00
130.00		133.05	1166.35	0.00	0.00
135.00		132.13	1704.59	0.00	0.00
140.00		129.34	982.06	0.00	0.00
145.00		126.44	955.42	0.00	0.00
150.00		123.42	928.70	0.00	0.00
155.00		120.28	901.90	0.00	0.00
160.00		117.05	875.02	0.00	0.00
165.00		113.71	848.07	0.00	0.00
170.00		110.27	821.05	0.00	0.00
175.00		106.74	793.97	0.00	0.00
180.00		103.12	766.81	0.00	0.00
183.00	(20) attachments	864.84	7494.59	0.00	0.00
185.00		40.11	274.08	0.00	0.00
190.00		101.07	685.71	0.00	0.00
192.00	(18) attachments	796.01	6346.56	0.00	261.58
195.00	(1) attachments	69.79	394.14	0.00	0.00
Totals:		6,823.96	71,057.99	0.00	261.58

Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-71.06	-6.84	0.00	-847.54	0.00	847.54	4628.91	1339.45	7126.38	6119.66	0.00	0.000	0.000	0.154
5.00	-68.99	-6.73	0.00	-813.33	0.00	813.33	4587.84	1314.86	6867.16	5953.37	0.02	-0.030	0.000	0.152
10.00	-66.94	-6.61	0.00	-779.70	0.00	779.70	4545.12	1290.28	6612.74	5787.00	0.06	-0.060	0.000	0.149
15.00	-64.91	-6.50	0.00	-746.63	0.00	746.63	4500.76	1265.69	6363.12	5620.67	0.14	-0.091	0.000	0.147
20.00	-62.90	-6.39	0.00	-714.14	0.00	714.14	4454.76	1241.10	6118.30	5454.49	0.25	-0.122	0.000	0.145
25.00	-60.92	-6.28	0.00	-682.20	0.00	682.20	4407.12	1216.52	5878.29	5288.58	0.40	-0.153	0.000	0.143
30.00	-58.97	-6.17	0.00	-650.82	0.00	650.82	4357.84	1191.93	5643.07	5123.07	0.58	-0.185	0.000	0.141
35.00	-57.05	-6.05	0.00	-619.99	0.00	619.99	4306.92	1167.34	5412.67	4958.08	0.79	-0.217	0.000	0.138
40.00	-55.16	-5.92	0.00	-589.73	0.00	589.73	4254.35	1142.76	5187.06	4793.73	1.03	-0.250	0.000	0.136
41.00	-54.79	-5.90	0.00	-583.82	0.00	583.82	4243.64	1137.84	5142.51	4760.94	1.09	-0.257	0.000	0.136
45.00	-52.24	-5.80	0.00	-560.20	0.00	560.20	4200.14	1118.17	4966.25	4630.13	1.31	-0.284	0.000	0.133
48.00	-50.35	-5.71	0.00	-542.81	0.00	542.81	4202.19	1119.08	4974.38	4636.19	1.50	-0.304	0.000	0.129
50.00	-49.61	-5.67	0.00	-531.39	0.00	531.39	4180.07	1109.25	4887.33	4570.98	1.63	-0.318	0.000	0.128
55.00	-47.80	-5.54	0.00	-503.05	0.00	503.05	4123.62	1084.66	4673.07	4408.60	1.98	-0.351	0.000	0.126
60.00	-46.02	-5.40	0.00	-475.37	0.00	475.37	4065.54	1060.07	4463.61	4247.27	2.36	-0.384	0.000	0.123
65.00	-44.27	-5.26	0.00	-448.36	0.00	448.36	4005.81	1035.49	4258.96	4087.10	2.78	-0.417	0.000	0.121
70.00	-42.56	-5.13	0.00	-422.05	0.00	422.05	3944.44	1010.90	4059.10	3928.21	3.24	-0.451	0.000	0.118
75.00	-40.88	-4.99	0.00	-396.42	0.00	396.42	3881.43	986.31	3864.05	3770.72	3.73	-0.485	0.000	0.116
80.00	-39.23	-4.85	0.00	-371.49	0.00	371.49	3816.78	961.72	3673.81	3614.75	4.26	-0.520	0.000	0.113
85.00	-37.62	-4.71	0.00	-347.26	0.00	347.26	3750.48	937.14	3488.36	3460.42	4.82	-0.554	0.000	0.110
90.00	-35.14	-4.54	0.00	-323.73	0.00	323.73	3682.55	912.55	3307.72	3307.86	5.42	-0.590	0.000	0.107
91.00	-34.64	-4.52	0.00	-319.19	0.00	319.19	2898.33	768.33	2813.78	2634.30	5.54	-0.597	0.000	0.133
95.00	-33.54	-4.41	0.00	-301.11	0.00	301.11	2860.60	751.94	2695.00	2544.15	6.06	-0.625	0.000	0.130
100.00	-32.19	-4.27	0.00	-279.05	0.00	279.05	2811.95	731.45	2550.13	2432.25	6.73	-0.666	0.000	0.126
105.00	-30.86	-4.14	0.00	-257.68	0.00	257.68	2761.66	710.96	2409.26	2321.34	7.45	-0.707	0.000	0.122
110.00	-29.57	-4.00	0.00	-237.00	0.00	237.00	2709.73	690.47	2272.40	2211.55	8.22	-0.749	0.000	0.118
115.00	-28.31	-3.86	0.00	-217.01	0.00	217.01	2656.16	669.98	2139.54	2103.00	9.02	-0.790	0.000	0.114
120.00	-27.08	-3.73	0.00	-197.71	0.00	197.71	2600.95	649.49	2010.67	1995.80	9.87	-0.831	0.000	0.110
125.00	-25.89	-3.59	0.00	-179.08	0.00	179.08	2544.10	629.00	1885.82	1890.08	10.76	-0.872	0.000	0.105
130.00	-24.72	-3.46	0.00	-161.13	0.00	161.13	2485.60	608.51	1764.96	1785.96	11.70	-0.913	0.000	0.100
135.00	-23.02	-3.31	0.00	-143.85	0.00	143.85	1823.78	478.25	1362.76	1289.51	12.68	-0.954	0.000	0.124
140.00	-22.03	-3.18	0.00	-127.28	0.00	127.28	1784.40	461.86	1270.94	1218.11	13.70	-0.994	0.000	0.117
145.00	-21.08	-3.06	0.00	-111.36	0.00	111.36	1743.38	445.47	1182.33	1147.55	14.76	-1.040	0.000	0.109
150.00	-20.15	-2.93	0.00	-96.07	0.00	96.07	1700.71	429.08	1096.92	1077.96	15.88	-1.085	0.000	0.101
155.00	-19.25	-2.81	0.00	-81.41	0.00	81.41	1656.41	412.69	1014.72	1009.45	17.04	-1.128	0.000	0.092
160.00	-18.37	-2.69	0.00	-67.37	0.00	67.37	1610.46	396.29	935.71	942.14	18.24	-1.169	0.000	0.083
165.00	-17.53	-2.57	0.00	-53.94	0.00	53.94	1562.88	379.90	859.91	876.15	19.49	-1.206	0.000	0.073
170.00	-16.71	-2.45	0.00	-41.10	0.00	41.10	1513.65	363.51	787.30	811.61	20.77	-1.239	0.000	0.062
175.00	-15.91	-2.33	0.00	-28.87	0.00	28.87	1462.77	347.12	717.90	748.63	22.08	-1.267	0.000	0.049
180.00	-15.15	-2.21	0.00	-17.22	0.00	17.22	1400.09	330.73	651.70	682.38	23.42	-1.288	0.000	0.036
180.00	-15.15	-2.21	0.00	-17.22	0.00	17.22	678.42	203.53	25205.7	396.30	23.42	-1.288	0.000	0.066
183.00	-7.68	-1.18	0.00	-10.57	0.00	10.57	678.42	203.53	25205.7	396.30	24.23	-1.297	0.000	0.038
185.00	-7.40	-1.14	0.00	-8.21	0.00	8.21	678.42	203.53	25205.7	396.30	24.78	-1.301	0.000	0.032
190.00	-6.72	-1.02	0.00	-2.54	0.00	2.54	678.42	203.53	25205.7	396.30	26.14	-1.306	0.000	0.016
192.00	-0.39	-0.08	0.00	-0.24	0.00	0.24	678.42	203.53	25205.7	396.30	26.69	-1.306	0.000	0.001
195.00	0.00	-0.07	0.00	0.00	0.00	0.00	678.42	203.53	25205.7	396.30	27.51	-1.307	0.000	0.000

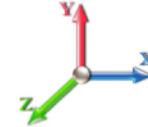
Seismic Segment Forces (Factored)

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Load Case: 1.2D + 1.0Ev + 1.0Eh						Iterations 23
Gust Response Factor	1.10			Sds	0.19	Ss 0.18
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.31	SA	0.03	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		1474.1	2.50	55.35	0.01	
10.00		1450.3	7.50	54.46	0.08	
15.00		1426.5	12.50	53.56	0.22	
20.00		1402.6	17.50	52.67	0.41	
25.00		1378.8	22.50	51.77	0.66	
30.00		1355.0	27.50	50.88	0.95	
35.00		1331.1	32.50	49.98	1.27	
40.00		1307.3	37.50	49.09	1.64	
41.00	Bot - Section 2	258.60	40.50	9.71	0.07	
45.00		1911.8	43.00	71.78	4.60	
48.00	Top - Section 1	1413.8	46.50	53.09	2.94	
50.00		507.08	49.00	19.04	0.42	
55.00		1251.0	52.50	46.97	2.94	
60.00		1227.1	57.50	46.08	3.39	
65.00		1203.3	62.50	45.18	3.85	
70.00		1179.5	67.50	44.29	4.32	
75.00		1155.6	72.50	43.39	4.78	
80.00		1131.8	77.50	42.50	5.24	
85.00	Bot - Section 3	1107.9	82.50	41.60	5.69	
90.00		1842.9	87.50	69.20	17.71	
91.00	Top - Section 2	363.34	90.50	13.64	0.74	
95.00		739.58	93.00	27.77	3.22	
100.00		906.60	97.50	34.04	5.32	
105.00		886.73	102.50	33.29	5.62	
110.00		866.87	107.50	32.55	5.91	
115.00		847.01	112.50	31.80	6.18	
120.00		827.14	117.50	31.06	6.43	
125.00		807.28	122.50	30.31	6.66	
130.00	Bot - Section 4	787.42	127.50	29.56	6.86	
135.00	Top - Section 3	1239.1	132.50	46.53	18.36	
140.00		643.26	137.50	24.15	5.33	
145.00		627.37	142.50	23.56	5.44	
150.00		611.48	147.50	22.96	5.54	
155.00		595.58	152.50	22.36	5.62	
160.00		579.69	157.50	21.77	5.68	
165.00		563.80	162.50	21.17	5.72	
170.00		547.91	167.50	20.57	5.74	
175.00		532.02	172.50	19.98	5.73	
180.00	Top - Section 4	516.13	177.50	19.38	5.71	
183.00	Appurtenance(s)	3633.2	181.50	136.42	296.10	
185.00		172.45	184.00	6.48	0.69	
190.00		431.13	187.50	16.19	4.45	
192.00	Appurtenance(s)	3027.5	191.00	113.67	227.69	
195.00	Appurtenance(s)	220.25	193.50	8.27	1.24	
Totals:		46,289.8		1,738.0	707.1	Total Wind: 25,155.0

Seismic Segment Forces (Factored)

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II
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Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

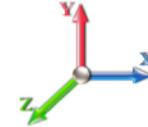
Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Load Case: 1.2D + 1.0Ev + 1.0Eh		Iterations 23
Gust Response Factor 1.10	Sds 0.19	Ss 0.18
Dead Load Factor 1.20	Seismic Load Factor 1.00	S1 0.05
Wind Load Factor 0.00	Structure Frequency (f1) 0.31	SA 0.03
	Seismic Importance Factor 1.00	



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-55.89	-0.71	0.00	-126.29	0.00	126.29	4628.91	1339.45	7126.38	6119.66	0.00	0.00	0.00	0.033
5.00	-54.10	-0.71	0.00	-122.75	0.00	122.75	4587.84	1314.86	6867.16	5953.37	0.00	0.00	0.00	0.032
10.00	-52.34	-0.72	0.00	-119.19	0.00	119.19	4545.12	1290.28	6612.74	5787.00	0.01	-0.01	0.00	0.032
15.00	-50.61	-0.72	0.00	-115.61	0.00	115.61	4500.76	1265.69	6363.12	5620.67	0.02	-0.01	0.00	0.032
20.00	-48.92	-0.72	0.00	-112.01	0.00	112.01	4454.76	1241.10	6118.30	5454.49	0.04	-0.02	0.00	0.032
25.00	-47.25	-0.73	0.00	-108.39	0.00	108.39	4407.12	1216.52	5878.29	5288.58	0.06	-0.02	0.00	0.031
30.00	-45.61	-0.73	0.00	-104.76	0.00	104.76	4357.84	1191.93	5643.07	5123.07	0.09	-0.03	0.00	0.031
35.00	-44.00	-0.73	0.00	-101.12	0.00	101.12	4306.92	1167.34	5412.67	4958.08	0.12	-0.03	0.00	0.031
40.00	-42.42	-0.73	0.00	-97.47	0.00	97.47	4254.35	1142.76	5187.06	4793.73	0.16	-0.04	0.00	0.030
41.00	-42.10	-0.73	0.00	-96.74	0.00	96.74	4243.64	1137.84	5142.51	4760.94	0.17	-0.04	0.00	0.030
45.00	-39.77	-0.73	0.00	-93.81	0.00	93.81	4200.14	1118.17	4966.25	4630.13	0.20	-0.04	0.00	0.030
48.00	-38.04	-0.73	0.00	-91.63	0.00	91.63	4202.19	1119.08	4974.38	4636.19	0.23	-0.05	0.00	0.029
50.00	-37.43	-0.73	0.00	-90.17	0.00	90.17	4180.07	1109.25	4887.33	4570.98	0.25	-0.05	0.00	0.029
55.00	-35.92	-0.73	0.00	-86.54	0.00	86.54	4123.62	1084.66	4673.07	4408.60	0.31	-0.06	0.00	0.028
60.00	-34.44	-0.73	0.00	-82.90	0.00	82.90	4065.54	1060.07	4463.61	4247.27	0.37	-0.06	0.00	0.028
65.00	-32.98	-0.72	0.00	-79.28	0.00	79.28	4005.81	1035.49	4258.96	4087.10	0.44	-0.07	0.00	0.028
70.00	-31.56	-0.72	0.00	-75.66	0.00	75.66	3944.44	1010.90	4059.10	3928.21	0.51	-0.07	0.00	0.027
75.00	-30.17	-0.72	0.00	-72.06	0.00	72.06	3881.43	986.31	3864.05	3770.72	0.59	-0.08	0.00	0.027
80.00	-28.81	-0.71	0.00	-68.47	0.00	68.47	3816.78	961.72	3673.81	3614.75	0.68	-0.09	0.00	0.026
85.00	-27.47	-0.71	0.00	-64.91	0.00	64.91	3750.48	937.14	3488.36	3460.42	0.78	-0.09	0.00	0.026
90.00	-25.23	-0.69	0.00	-61.36	0.00	61.36	3682.55	912.55	3307.72	3307.86	0.88	-0.10	0.00	0.025
91.00	-24.79	-0.69	0.00	-60.67	0.00	60.67	2898.33	768.33	2813.78	2634.30	0.90	-0.10	0.00	0.032
95.00	-23.90	-0.69	0.00	-57.92	0.00	57.92	2860.60	751.94	2695.00	2544.15	0.98	-0.11	0.00	0.031
100.00	-22.82	-0.68	0.00	-54.48	0.00	54.48	2811.95	731.45	2550.13	2432.25	1.10	-0.11	0.00	0.031
105.00	-21.76	-0.68	0.00	-51.07	0.00	51.07	2761.66	710.96	2409.26	2321.34	1.22	-0.12	0.00	0.030
110.00	-20.72	-0.67	0.00	-47.68	0.00	47.68	2709.73	690.47	2272.40	2211.55	1.36	-0.13	0.00	0.029
115.00	-19.71	-0.67	0.00	-44.32	0.00	44.32	2656.16	669.98	2139.54	2103.00	1.50	-0.14	0.00	0.028
120.00	-18.72	-0.66	0.00	-40.98	0.00	40.98	2600.95	649.49	2010.67	1995.80	1.65	-0.15	0.00	0.028
125.00	-17.76	-0.65	0.00	-37.68	0.00	37.68	2544.10	629.00	1885.82	1890.08	1.81	-0.16	0.00	0.027
130.00	-16.83	-0.65	0.00	-34.40	0.00	34.40	2485.60	608.51	1764.96	1785.96	1.97	-0.16	0.00	0.026
135.00	-15.33	-0.63	0.00	-31.17	0.00	31.17	1823.78	478.25	1362.76	1289.51	2.15	-0.17	0.00	0.033
140.00	-14.57	-0.62	0.00	-28.03	0.00	28.03	1784.40	461.86	1270.94	1218.11	2.34	-0.18	0.00	0.031
145.00	-13.83	-0.62	0.00	-24.92	0.00	24.92	1743.38	445.47	1182.33	1147.55	2.53	-0.19	0.00	0.030
150.00	-13.11	-0.61	0.00	-21.83	0.00	21.83	1700.71	429.08	1096.92	1077.96	2.74	-0.20	0.00	0.028
155.00	-12.41	-0.61	0.00	-18.78	0.00	18.78	1656.41	412.69	1014.72	1009.45	2.96	-0.21	0.00	0.026
160.00	-11.73	-0.60	0.00	-15.75	0.00	15.75	1610.46	396.29	935.71	942.14	3.18	-0.22	0.00	0.024
165.00	-11.07	-0.59	0.00	-12.76	0.00	12.76	1562.88	379.90	859.91	876.15	3.42	-0.23	0.00	0.022
170.00	-10.43	-0.59	0.00	-9.80	0.00	9.80	1513.65	363.51	787.30	811.61	3.67	-0.24	0.00	0.019
175.00	-9.81	-0.58	0.00	-6.87	0.00	6.87	1462.77	347.12	717.90	748.63	3.92	-0.25	0.00	0.016
180.00	-9.21	-0.57	0.00	-3.99	0.00	3.99	1400.09	330.73	651.70	682.38	4.18	-0.25	0.00	0.012
180.00	-9.21	-0.57	0.00	-3.99	0.00	3.99	678.42	203.53	25205.7	396.30	4.18	-0.25	0.00	0.024
183.00	-4.74	-0.25	0.00	-2.28	0.00	2.28	678.42	203.53	25205.7	396.30	4.34	-0.25	0.00	0.013
185.00	-4.53	-0.25	0.00	-1.77	0.00	1.77	678.42	203.53	25205.7	396.30	4.44	-0.25	0.00	0.011
190.00	-4.01	-0.25	0.00	-0.50	0.00	0.50	678.42	203.53	25205.7	396.30	4.71	-0.25	0.00	0.007
192.00	-0.27	0.00	0.00	-0.01	0.00	0.01	678.42	203.53	25205.7	396.30	4.82	-0.25	0.00	0.000
195.00	0.00	0.00	0.00	0.00	0.00	0.00	678.42	203.53	25205.7	396.30	4.98	-0.25	0.00	0.000

Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II
		Page: 23



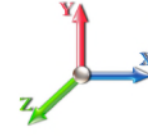
Seismic Segment Forces (Factored)

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Load Case: 0.9D + 1.0Ev + 1.0Eh				Iterations 23
Gust Response Factor	1.10	Sds	0.19	Ss 0.18
Dead Load Factor	0.90	Seismic Load Factor	1.00	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.31	SA 0.03
				Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		1427.2	2.50	53.59	0.01	
10.00		1403.4	7.50	52.69	0.08	
15.00		1379.6	12.50	51.80	0.21	
20.00		1355.7	17.50	50.90	0.40	
25.00		1331.9	22.50	50.01	0.63	
30.00		1308.1	27.50	49.12	0.91	
35.00		1284.2	32.50	48.22	1.23	
40.00		1260.4	37.50	47.33	1.58	
41.00	Bot - Section 2	249.23	40.50	9.36	0.07	
45.00		1874.3	43.00	70.38	4.58	
48.00	Top - Section 1	1385.7	46.50	52.03	2.93	
50.00		488.32	49.00	18.33	0.40	
55.00		1204.1	52.50	45.21	2.82	
60.00		1180.2	57.50	44.32	3.25	
65.00		1156.4	62.50	43.42	3.68	
70.00		1132.6	67.50	42.53	4.12	
75.00		1108.7	72.50	41.63	4.56	
80.00		1084.9	77.50	40.74	4.99	
85.00	Bot - Section 3	1061.1	82.50	39.84	5.40	
90.00		1796.0	87.50	67.43	17.42	
91.00	Top - Section 2	353.96	90.50	13.29	0.72	
95.00		702.07	93.00	26.36	3.01	
100.00		859.71	97.50	32.28	4.95	
105.00		839.84	102.50	31.53	5.23	
110.00		819.98	107.50	30.79	5.48	
115.00		800.12	112.50	30.04	5.71	
120.00		780.25	117.50	29.30	5.93	
125.00		760.39	122.50	28.55	6.12	
130.00	Bot - Section 4	740.53	127.50	27.80	6.29	
135.00	Top - Section 3	1192.2	132.50	44.76	17.60	
140.00		596.37	137.50	22.39	4.74	
145.00		580.48	142.50	21.79	4.83	
150.00		564.59	147.50	21.20	4.89	
155.00		548.69	152.50	20.60	4.94	
160.00		532.80	157.50	20.01	4.97	
165.00		516.91	162.50	19.41	4.98	
170.00		501.02	167.50	18.81	4.97	
175.00		485.13	172.50	18.22	4.94	
180.00	Top - Section 4	469.24	177.50	17.62	4.89	
183.00	Appurtenance(s)	3605.1	181.50	135.36	301.93	
185.00		164.96	184.00	6.19	0.65	
190.00		412.41	187.50	15.48	4.22	
192.00	Appurtenance(s)	3020.0	191.00	113.39	234.64	
195.00	Appurtenance(s)	220.25	193.50	8.27	1.28	
Totals:		44,540.0		1,672.3	707.1	Total Wind: 25,155.0

Seismic Segment Forces (Factored)

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

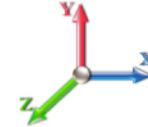
Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Load Case: 0.9D + 1.0Ev + 1.0Eh		Iterations 23
Gust Response Factor 1.10	Sds 0.19	Ss 0.18
Dead Load Factor 0.90	Seismic Load Factor 1.00	S1 0.05
Wind Load Factor 0.00	Structure Frequency (f1) 0.31	SA 0.03
	Seismic Importance Factor 1.00	



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-42.28	-0.71	0.00	-125.22	0.00	125.22	4628.91	1339.45	7126.38	6119.66	0.00	0.00	0.00	0.030
5.00	-40.93	-0.71	0.00	-121.68	0.00	121.68	4587.84	1314.86	6867.16	5953.37	0.00	0.00	0.00	0.029
10.00	-39.60	-0.71	0.00	-118.12	0.00	118.12	4545.12	1290.28	6612.74	5787.00	0.01	-0.01	0.00	0.029
15.00	-38.29	-0.72	0.00	-114.56	0.00	114.56	4500.76	1265.69	6363.12	5620.67	0.02	-0.01	0.00	0.029
20.00	-37.01	-0.72	0.00	-110.97	0.00	110.97	4454.76	1241.10	6118.30	5454.49	0.04	-0.02	0.00	0.029
25.00	-35.75	-0.72	0.00	-107.38	0.00	107.38	4407.12	1216.52	5878.29	5288.58	0.06	-0.02	0.00	0.028
30.00	-34.50	-0.72	0.00	-103.78	0.00	103.78	4357.84	1191.93	5643.07	5123.07	0.09	-0.03	0.00	0.028
35.00	-33.29	-0.72	0.00	-100.16	0.00	100.16	4306.92	1167.34	5412.67	4958.08	0.12	-0.03	0.00	0.028
40.00	-32.09	-0.72	0.00	-96.55	0.00	96.55	4254.35	1142.76	5187.06	4793.73	0.16	-0.04	0.00	0.028
41.00	-31.85	-0.72	0.00	-95.82	0.00	95.82	4243.64	1137.84	5142.51	4760.94	0.17	-0.04	0.00	0.028
45.00	-30.09	-0.72	0.00	-92.93	0.00	92.93	4200.14	1118.17	4966.25	4630.13	0.20	-0.04	0.00	0.027
48.00	-28.78	-0.72	0.00	-90.76	0.00	90.76	4202.19	1119.08	4974.38	4636.19	0.23	-0.05	0.00	0.026
50.00	-28.31	-0.72	0.00	-89.33	0.00	89.33	4180.07	1109.25	4887.33	4570.98	0.25	-0.05	0.00	0.026
55.00	-27.17	-0.72	0.00	-85.73	0.00	85.73	4123.62	1084.66	4673.07	4408.60	0.31	-0.06	0.00	0.026
60.00	-26.05	-0.72	0.00	-82.14	0.00	82.14	4065.54	1060.07	4463.61	4247.27	0.37	-0.06	0.00	0.026
65.00	-24.95	-0.71	0.00	-78.56	0.00	78.56	4005.81	1035.49	4258.96	4087.10	0.44	-0.07	0.00	0.025
70.00	-23.88	-0.71	0.00	-74.99	0.00	74.99	3944.44	1010.90	4059.10	3928.21	0.51	-0.07	0.00	0.025
75.00	-22.82	-0.71	0.00	-71.44	0.00	71.44	3881.43	986.31	3864.05	3770.72	0.59	-0.08	0.00	0.025
80.00	-21.79	-0.70	0.00	-67.90	0.00	67.90	3816.78	961.72	3673.81	3614.75	0.68	-0.09	0.00	0.024
85.00	-20.78	-0.70	0.00	-64.39	0.00	64.39	3750.48	937.14	3488.36	3460.42	0.77	-0.09	0.00	0.024
90.00	-19.08	-0.68	0.00	-60.89	0.00	60.89	3682.55	912.55	3307.72	3307.86	0.87	-0.10	0.00	0.024
91.00	-18.75	-0.68	0.00	-60.21	0.00	60.21	2898.33	768.33	2813.78	2634.30	0.89	-0.10	0.00	0.029
95.00	-18.08	-0.68	0.00	-57.49	0.00	57.49	2860.60	751.94	2695.00	2544.15	0.97	-0.11	0.00	0.029
100.00	-17.26	-0.67	0.00	-54.11	0.00	54.11	2811.95	731.45	2550.13	2432.25	1.09	-0.11	0.00	0.028
105.00	-16.46	-0.67	0.00	-50.74	0.00	50.74	2761.66	710.96	2409.26	2321.34	1.21	-0.12	0.00	0.028
110.00	-15.68	-0.66	0.00	-47.39	0.00	47.39	2709.73	690.47	2272.40	2211.55	1.34	-0.13	0.00	0.027
115.00	-14.91	-0.66	0.00	-44.07	0.00	44.07	2656.16	669.98	2139.54	2103.00	1.48	-0.14	0.00	0.027
120.00	-14.17	-0.65	0.00	-40.78	0.00	40.78	2600.95	649.49	2010.67	1995.80	1.63	-0.15	0.00	0.026
125.00	-13.44	-0.65	0.00	-37.51	0.00	37.51	2544.10	629.00	1885.82	1890.08	1.79	-0.15	0.00	0.025
130.00	-12.73	-0.64	0.00	-34.28	0.00	34.28	2485.60	608.51	1764.96	1785.96	1.96	-0.16	0.00	0.024
135.00	-11.60	-0.62	0.00	-31.07	0.00	31.07	1823.78	478.25	1362.76	1289.51	2.13	-0.17	0.00	0.030
140.00	-11.03	-0.62	0.00	-27.97	0.00	27.97	1784.40	461.86	1270.94	1218.11	2.32	-0.18	0.00	0.029
145.00	-10.47	-0.61	0.00	-24.88	0.00	24.88	1743.38	445.47	1182.33	1147.55	2.51	-0.19	0.00	0.028
150.00	-9.92	-0.61	0.00	-21.82	0.00	21.82	1700.71	429.08	1096.92	1077.96	2.72	-0.20	0.00	0.026
155.00	-9.39	-0.60	0.00	-18.78	0.00	18.78	1656.41	412.69	1014.72	1009.45	2.93	-0.21	0.00	0.024
160.00	-8.88	-0.60	0.00	-15.77	0.00	15.77	1610.46	396.29	935.71	942.14	3.16	-0.22	0.00	0.022
165.00	-8.38	-0.59	0.00	-12.79	0.00	12.79	1562.88	379.90	859.91	876.15	3.39	-0.23	0.00	0.020
170.00	-7.90	-0.59	0.00	-9.83	0.00	9.83	1513.65	363.51	787.30	811.61	3.64	-0.24	0.00	0.017
175.00	-7.43	-0.58	0.00	-6.91	0.00	6.91	1462.77	347.12	717.90	748.63	3.89	-0.24	0.00	0.014
180.00	-6.98	-0.57	0.00	-4.01	0.00	4.01	1400.09	330.73	651.70	682.38	4.15	-0.25	0.00	0.011
180.00	-6.98	-0.57	0.00	-4.01	0.00	4.01	678.42	203.53	25205.7	396.30	4.15	-0.25	0.00	0.020
183.00	-3.59	-0.26	0.00	-2.29	0.00	2.29	678.42	203.53	25205.7	396.30	4.31	-0.25	0.00	0.011
185.00	-3.43	-0.26	0.00	-1.78	0.00	1.78	678.42	203.53	25205.7	396.30	4.41	-0.25	0.00	0.010
190.00	-3.04	-0.25	0.00	-0.50	0.00	0.50	678.42	203.53	25205.7	396.30	4.68	-0.25	0.00	0.006
192.00	-0.21	0.00	0.00	-0.01	0.00	0.01	678.42	203.53	25205.7	396.30	4.78	-0.25	0.00	0.000
195.00	0.00	0.00	0.00	0.00	0.00	0.00	678.42	203.53	25205.7	396.30	4.94	-0.25	0.00	0.000

Calculated Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II
		Page: 27



Wind Loading - Shaft

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

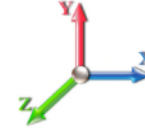


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 25

Dead Load Factor 1.00
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	5.292	5.82	269.15	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	5.292	5.82	264.24	0.730	0.000	5.00	27.041	19.74	114.9	0.0	1286.6
10.00		1.00	0.70	5.292	5.82	259.33	0.730	0.000	5.00	26.543	19.38	112.8	0.0	1262.8
15.00		1.00	0.70	5.292	5.82	254.42	0.730	0.000	5.00	26.045	19.01	110.7	0.0	1238.9
20.00		1.00	0.70	5.292	5.82	249.50	0.730	0.000	5.00	25.547	18.65	108.6	0.0	1215.1
25.00		1.00	0.70	5.292	5.82	244.59	0.730	0.000	5.00	25.049	18.29	106.4	0.0	1191.3
30.00		1.00	0.70	5.296	5.83	239.78	0.730	0.000	5.00	24.550	17.92	104.4	0.0	1167.4
35.00		1.00	0.73	5.535	6.09	240.10	0.730	0.000	5.00	24.052	17.56	106.9	0.0	1143.6
40.00		1.00	0.76	5.750	6.32	239.60	0.730	0.000	5.00	23.554	17.19	108.8	0.0	1119.8
41.00	Bot - Section 2	1.00	0.77	5.791	6.37	239.42	0.730	0.000	1.00	4.651	3.40	21.6	0.0	221.1
45.00		1.00	0.79	5.947	6.54	238.46	0.730	0.000	4.00	18.659	13.62	89.1	0.0	1761.8
48.00	Top - Section 1	1.00	0.80	6.057	6.66	237.52	0.730	0.000	3.00	13.785	10.06	67.1	0.0	1301.3
50.00		1.00	0.81	6.128	6.74	240.16	0.730	0.000	2.00	9.091	6.64	44.7	0.0	432.1
55.00		1.00	0.83	6.298	6.93	238.09	0.730	0.000	5.00	22.378	16.34	113.2	0.0	1063.4
60.00		1.00	0.85	6.456	7.10	235.64	0.730	0.000	5.00	21.880	15.97	113.4	0.0	1039.6
65.00		1.00	0.87	6.605	7.27	232.87	0.730	0.000	5.00	21.382	15.61	113.4	0.0	1015.8
70.00		1.00	0.89	6.747	7.42	229.80	0.730	0.000	5.00	20.884	15.25	113.1	0.0	991.9
75.00		1.00	0.91	6.881	7.57	226.47	0.730	0.000	5.00	20.386	14.88	112.6	0.0	968.1
80.00		1.00	0.93	7.009	7.71	222.92	0.730	0.000	5.00	19.888	14.52	111.9	0.0	944.3
85.00	Bot - Section 3	1.00	0.94	7.132	7.84	219.16	0.730	0.000	5.00	19.390	14.15	111.0	0.0	920.4
90.00		1.00	0.96	7.249	7.97	215.20	0.730	0.000	5.00	19.156	13.98	111.5	0.0	1655.4
91.00	Top - Section 2	1.00	0.96	7.272	8.00	214.39	0.730	0.000	1.00	3.771	2.75	22.0	0.0	325.8
95.00		1.00	0.97	7.362	8.10	214.15	0.730	0.000	4.00	14.887	10.87	88.0	0.0	589.5
100.00		1.00	0.99	7.471	8.22	209.89	0.730	0.000	5.00	18.160	13.26	108.9	0.0	719.0
105.00		1.00	1.00	7.576	8.33	205.48	0.730	0.000	5.00	17.662	12.89	107.4	0.0	699.2
110.00		1.00	1.02	7.677	8.44	200.94	0.730	0.000	5.00	17.164	12.53	105.8	0.0	679.3
115.00		1.00	1.03	7.775	8.55	196.27	0.730	0.000	5.00	16.666	12.17	104.1	0.0	659.4
120.00		1.00	1.04	7.870	8.66	191.47	0.730	0.000	5.00	16.168	11.80	102.2	0.0	639.6
125.00		1.00	1.05	7.962	8.76	186.57	0.730	0.000	5.00	15.670	11.44	100.2	0.0	619.7
130.00	Bot - Section 4	1.00	1.07	8.052	8.86	181.56	0.730	0.000	5.00	15.172	11.08	98.1	0.0	599.9
135.00	Top - Section 3	1.00	1.08	8.139	8.95	176.45	0.730	0.000	5.00	14.885	10.87	97.3	0.0	1051.6
140.00		1.00	1.09	8.224	9.05	173.84	0.730	0.000	5.00	14.387	10.50	95.0	0.0	455.7
145.00		1.00	1.10	8.307	9.14	168.56	0.730	0.000	5.00	13.889	10.14	92.7	0.0	439.8
150.00		1.00	1.11	8.388	9.23	163.20	0.730	0.000	5.00	13.391	9.78	90.2	0.0	423.9
155.00		1.00	1.12	8.467	9.31	157.75	0.730	0.000	5.00	12.893	9.41	87.7	0.0	408.0
160.00		1.00	1.13	8.544	9.40	152.22	0.730	0.000	5.00	12.395	9.05	85.0	0.0	392.1
165.00		1.00	1.14	8.620	9.48	146.63	0.730	0.000	5.00	11.897	8.69	82.3	0.0	376.2
170.00		1.00	1.15	8.694	9.56	140.96	0.730	0.000	5.00	11.399	8.32	79.6	0.0	360.4
175.00		1.00	1.16	8.766	9.64	135.22	0.730	0.000	5.00	10.901	7.96	76.7	0.0	344.5
180.00	Top - Section 4	1.00	1.17	8.837	9.72	129.42	0.730	0.000	5.00	10.403	7.59	73.8	0.0	328.6
183.00	Appurtenance(s)	1.00	1.17	8.879	9.77	127.75	0.600	0.000	3.00	6.000	3.60	35.2	0.0	213.8
185.00		1.00	1.18	8.906	9.80	127.95	0.600	0.000	2.00	4.000	2.40	23.5	0.0	142.5
190.00		1.00	1.19	8.974	9.87	128.44	0.600	0.000	5.00	10.000	6.00	59.2	0.0	356.3
192.00	Appurtenance(s)	1.00	1.19	9.001	9.90	128.63	0.600	0.000	2.00	4.000	2.40	23.8	0.0	142.5
195.00	Appurtenance(s)	1.00	1.20	9.041	9.95	128.92	0.600	0.000	3.00	6.000	3.60	35.8	0.0	213.8
Totals:									195.00			3,870.8		33,121.7

Discrete Appurtenance Forces

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

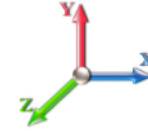


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	6' Lightning rod	1	9.041	9.945	1.00	1.00	0.38	6.50	0.000	0.000	3.78	0.00	0.00
2	192.00	782 11056	3	9.001	9.901	0.65	0.75	0.55	5.40	0.000	0.000	5.43	0.00	0.00
3	192.00	Radio 4449 B71+B12	3	9.015	9.916	0.50	0.75	2.49	210.00	0.000	1.000	24.66	0.00	24.66
4	192.00	KRY 112 489/2	3	9.015	9.916	0.75	0.75	1.53	39.60	0.000	1.000	15.17	0.00	15.17
5	192.00	RFS	3	9.015	9.916	0.52	0.75	31.88	384.00	0.000	1.000	316.10	0.00	316.10
6	192.00	MS-HRECP	1	9.001	9.901	1.00	1.00	12.25	514.00	0.000	0.000	121.29	0.00	0.00
7	192.00	MS-KI22-5 (Kickers w/o	1	9.001	9.901	1.00	1.00	5.33	146.00	0.000	0.000	52.77	0.00	0.00
8	192.00	Low Profile Platform	1	9.001	9.901	1.00	1.00	22.00	1500.00	0.000	0.000	217.83	0.00	0.00
9	192.00	APXV18-206516S-C-A20	3	9.015	9.916	0.55	0.75	5.93	56.10	0.000	1.000	58.80	0.00	58.80
10	183.00	MT6407-77A	3	8.879	9.766	0.52	0.75	7.39	238.20	0.000	0.000	72.14	0.00	0.00
11	183.00	DB-C1-12C-24AB-0Z	1	8.879	9.766	0.68	0.75	2.74	32.00	0.000	0.000	26.76	0.00	0.00
12	183.00	RFV01U-D2A	3	8.879	9.766	0.50	0.75	2.83	210.90	0.000	0.000	27.68	0.00	0.00
13	183.00	RFV01U-D1A	3	8.879	9.766	0.50	0.75	2.83	253.20	0.000	0.000	27.68	0.00	0.00
14	183.00	MX06FRO660-03	6	8.879	9.766	0.65	0.75	38.64	276.00	0.000	0.000	377.39	0.00	0.00
15	183.00	Support Rail w/ end	1	8.879	9.766	1.00	1.00	12.25	514.00	0.000	0.000	119.64	0.00	0.00
16	183.00	MS-H1436 (Heavy Collar	1	8.879	9.766	1.00	1.00	2.25	136.70	0.000	0.000	21.97	0.00	0.00
17	183.00	MS-KI22-5 (Kickers w/o	1	8.879	9.766	1.00	1.00	5.33	146.00	0.000	0.000	52.06	0.00	0.00
18	183.00	Low Profile Platform	1	8.879	9.766	1.00	1.00	22.00	1500.00	0.000	0.000	214.86	0.00	0.00

Totals: 6,168.60

1,756.02

Total Applied Force Summary

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II

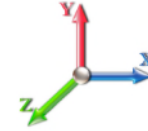


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		114.90	1442.92	0.00	0.00
10.00		112.79	1419.08	0.00	0.00
15.00		110.67	1395.24	0.00	0.00
20.00		108.55	1371.41	0.00	0.00
25.00		106.44	1347.57	0.00	0.00
30.00		104.41	1323.74	0.00	0.00
35.00		106.90	1299.90	0.00	0.00
40.00		108.76	1276.06	0.00	0.00
41.00		21.63	252.35	0.00	0.00
45.00		89.10	1886.86	0.00	0.00
48.00		67.05	1395.12	0.00	0.00
50.00		44.74	494.57	0.00	0.00
55.00		113.16	1219.74	0.00	0.00
60.00		113.43	1195.91	0.00	0.00
65.00		113.41	1172.07	0.00	0.00
70.00		113.14	1148.24	0.00	0.00
75.00		112.64	1124.40	0.00	0.00
80.00		111.94	1100.56	0.00	0.00
85.00		111.04	1076.73	0.00	0.00
90.00		111.51	1811.65	0.00	0.00
91.00		22.02	357.09	0.00	0.00
95.00		88.00	714.57	0.00	0.00
100.00		108.94	875.34	0.00	0.00
105.00		107.44	855.47	0.00	0.00
110.00		105.81	835.61	0.00	0.00
115.00		104.05	815.75	0.00	0.00
120.00		102.18	795.88	0.00	0.00
125.00		100.19	776.02	0.00	0.00
130.00		98.10	756.16	0.00	0.00
135.00		97.29	1207.88	0.00	0.00
140.00		95.02	612.00	0.00	0.00
145.00		92.65	596.11	0.00	0.00
150.00		90.20	580.22	0.00	0.00
155.00		87.66	564.32	0.00	0.00
160.00		85.05	548.43	0.00	0.00
165.00		82.35	532.54	0.00	0.00
170.00		79.58	516.65	0.00	0.00
175.00		76.73	500.76	0.00	0.00
180.00		73.82	484.87	0.00	0.00
183.00	(20) attachments	975.34	3614.53	0.00	0.00
185.00		23.51	167.46	0.00	0.00
190.00		59.23	418.65	0.00	0.00
192.00	(18) attachments	835.82	3022.56	0.00	414.74
195.00	(1) attachments	39.58	220.25	0.00	0.00
Totals:		5,626.78	45,123.25	0.00	414.74

Calculated Forces

Structure: CT01944-S-SBA
Site Name: Harwinton
Height: 195.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 2

Code: EIA/TIA-222-H
Exposure: B
Crest Height: 427.00
Site Class: D - Stiff Soil
Struct Class: II

8/20/2021

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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 25

Dead Load Factor 1.00
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-45.12	-5.64	0.00	-714.11	0.00	714.11	4628.91	1339.45	7126.38	6119.66	0.00	0.000	0.000	0.126
5.00	-43.68	-5.54	0.00	-685.93	0.00	685.93	4587.84	1314.86	6867.16	5953.37	0.01	-0.025	0.000	0.125
10.00	-42.26	-5.45	0.00	-658.23	0.00	658.23	4545.12	1290.28	6612.74	5787.00	0.05	-0.051	0.000	0.123
15.00	-40.86	-5.35	0.00	-631.00	0.00	631.00	4500.76	1265.69	6363.12	5620.67	0.12	-0.076	0.000	0.121
20.00	-39.48	-5.26	0.00	-604.24	0.00	604.24	4454.76	1241.10	6118.30	5454.49	0.21	-0.103	0.000	0.120
25.00	-38.13	-5.17	0.00	-577.95	0.00	577.95	4407.12	1216.52	5878.29	5288.58	0.34	-0.129	0.000	0.118
30.00	-36.81	-5.08	0.00	-552.11	0.00	552.11	4357.84	1191.93	5643.07	5123.07	0.49	-0.156	0.000	0.116
35.00	-35.51	-4.98	0.00	-526.72	0.00	526.72	4306.92	1167.34	5412.67	4958.08	0.67	-0.184	0.000	0.114
40.00	-34.23	-4.88	0.00	-501.80	0.00	501.80	4254.35	1142.76	5187.06	4793.73	0.87	-0.212	0.000	0.113
41.00	-33.98	-4.87	0.00	-496.92	0.00	496.92	4243.64	1137.84	5142.51	4760.94	0.92	-0.218	0.000	0.112
45.00	-32.09	-4.78	0.00	-477.45	0.00	477.45	4200.14	1118.17	4966.25	4630.13	1.11	-0.240	0.000	0.111
48.00	-30.69	-4.72	0.00	-463.10	0.00	463.10	4202.19	1119.08	4974.38	4636.19	1.27	-0.258	0.000	0.107
50.00	-30.20	-4.68	0.00	-453.67	0.00	453.67	4180.07	1109.25	4887.33	4570.98	1.38	-0.270	0.000	0.106
55.00	-28.97	-4.57	0.00	-430.27	0.00	430.27	4123.62	1084.66	4673.07	4408.60	1.67	-0.297	0.000	0.105
60.00	-27.78	-4.47	0.00	-407.40	0.00	407.40	4065.54	1060.07	4463.61	4247.27	2.00	-0.326	0.000	0.103
65.00	-26.60	-4.36	0.00	-385.06	0.00	385.06	4005.81	1035.49	4258.96	4087.10	2.36	-0.354	0.000	0.101
70.00	-25.45	-4.25	0.00	-363.25	0.00	363.25	3944.44	1010.90	4059.10	3928.21	2.74	-0.383	0.000	0.099
75.00	-24.33	-4.15	0.00	-341.98	0.00	341.98	3881.43	986.31	3864.05	3770.72	3.16	-0.413	0.000	0.097
80.00	-23.23	-4.04	0.00	-321.25	0.00	321.25	3816.78	961.72	3673.81	3614.75	3.61	-0.443	0.000	0.095
85.00	-22.15	-3.93	0.00	-301.06	0.00	301.06	3750.48	937.14	3488.36	3460.42	4.09	-0.473	0.000	0.093
90.00	-20.34	-3.81	0.00	-281.41	0.00	281.41	3682.55	912.55	3307.72	3307.86	4.60	-0.503	0.000	0.091
91.00	-19.98	-3.79	0.00	-277.60	0.00	277.60	2898.33	768.33	2813.78	2634.30	4.71	-0.510	0.000	0.112
95.00	-19.26	-3.71	0.00	-262.43	0.00	262.43	2860.60	751.94	2695.00	2544.15	5.15	-0.535	0.000	0.110
100.00	-18.39	-3.60	0.00	-243.91	0.00	243.91	2811.95	731.45	2550.13	2432.25	5.73	-0.570	0.000	0.107
105.00	-17.53	-3.49	0.00	-225.91	0.00	225.91	2761.66	710.96	2409.26	2321.34	6.34	-0.606	0.000	0.104
110.00	-16.69	-3.39	0.00	-208.43	0.00	208.43	2709.73	690.47	2272.40	2211.55	7.00	-0.642	0.000	0.100
115.00	-15.88	-3.29	0.00	-191.48	0.00	191.48	2656.16	669.98	2139.54	2103.00	7.69	-0.679	0.000	0.097
120.00	-15.08	-3.18	0.00	-175.04	0.00	175.04	2600.95	649.49	2010.67	1995.80	8.42	-0.715	0.000	0.094
125.00	-14.30	-3.08	0.00	-159.12	0.00	159.12	2544.10	629.00	1885.82	1890.08	9.19	-0.752	0.000	0.090
130.00	-13.55	-2.98	0.00	-143.70	0.00	143.70	2485.60	608.51	1764.96	1785.96	9.99	-0.788	0.000	0.086
135.00	-12.34	-2.88	0.00	-128.78	0.00	128.78	1823.78	478.25	1362.76	1289.51	10.84	-0.824	0.000	0.107
140.00	-11.73	-2.78	0.00	-114.39	0.00	114.39	1784.40	461.86	1270.94	1218.11	11.72	-0.860	0.000	0.101
145.00	-11.13	-2.69	0.00	-100.48	0.00	100.48	1743.38	445.47	1182.33	1147.55	12.65	-0.902	0.000	0.094
150.00	-10.55	-2.60	0.00	-87.04	0.00	87.04	1700.71	429.08	1096.92	1077.96	13.61	-0.943	0.000	0.087
155.00	-9.98	-2.51	0.00	-74.06	0.00	74.06	1656.41	412.69	1014.72	1009.45	14.62	-0.982	0.000	0.079
160.00	-9.44	-2.42	0.00	-61.53	0.00	61.53	1610.46	396.29	935.71	942.14	15.67	-1.019	0.000	0.071
165.00	-8.90	-2.33	0.00	-49.45	0.00	49.45	1562.88	379.90	859.91	876.15	16.76	-1.053	0.000	0.062
170.00	-8.39	-2.24	0.00	-37.80	0.00	37.80	1513.65	363.51	787.30	811.61	17.87	-1.083	0.000	0.052
175.00	-7.89	-2.16	0.00	-26.58	0.00	26.58	1462.77	347.12	717.90	748.63	19.02	-1.109	0.000	0.041
180.00	-7.40	-2.08	0.00	-15.77	0.00	15.77	1400.09	330.73	651.70	682.38	20.20	-1.128	0.000	0.028
180.00	-7.40	-2.08	0.00	-15.77	0.00	15.77	678.42	203.53	25205.7	396.30	20.20	-1.128	0.000	0.051
183.00	-3.81	-1.03	0.00	-9.53	0.00	9.53	678.42	203.53	25205.7	396.30	20.91	-1.136	0.000	0.030
185.00	-3.64	-1.01	0.00	-7.46	0.00	7.46	678.42	203.53	25205.7	396.30	21.39	-1.140	0.000	0.024
190.00	-3.22	-0.94	0.00	-2.43	0.00	2.43	678.42	203.53	25205.7	396.30	22.58	-1.144	0.000	0.011
192.00	-0.22	-0.04	0.00	-0.13	0.00	0.13	678.42	203.53	25205.7	396.30	23.06	-1.145	0.000	0.001
195.00	0.00	-0.04	0.00	0.00	0.00	0.00	678.42	203.53	25205.7	396.30	23.78	-1.145	0.000	0.000

Final Analysis Summary

Structure: CT01944-S-SBA	Code: EIA/TIA-222-H	8/20/2021
Site Name: Harwinton	Exposure: B	
Height: 195.00 (ft)	Crest Height: 427.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 2	Struct Class: II



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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 120 mph Wind	25.2	0.00	54.12	0.00	0.00	3216.92
0.9D + 1.0W 120 mph Wind	25.2	0.00	40.59	0.00	0.00	3176.53
1.2D + 1.0Di + 1.0Wi 50 mph Wind	6.8	0.00	71.06	0.00	0.00	847.54
1.2D + 1.0Ev + 1.0Eh	0.7	0.00	55.89	0.00	0.00	126.29
0.9D + 1.0Ev + 1.0Eh	0.7	0.00	42.28	0.00	0.00	125.22
1.0D + 1.0W 60 mph Wind	5.6	0.00	45.12	0.00	0.00	714.11

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 120 mph Wind	-54.12	-25.21	0.00	-3216.9	0.00	-3216.9	4628.91	1339.4	7126.38	6119.66	0.00	0.538
0.9D + 1.0W 120 mph Wind	-40.59	-25.19	0.00	-3176.5	0.00	-3176.5	4628.91	1339.4	7126.38	6119.66	0.00	0.528
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-71.06	-6.84	0.00	-847.54	0.00	-847.54	4628.91	1339.4	7126.38	6119.66	0.00	0.154
1.2D + 1.0Ev + 1.0Eh	-55.89	-0.71	0.00	-126.29	0.00	-126.29	4628.91	1339.4	7126.38	6119.66	0.00	0.033
0.9D + 1.0Ev + 1.0Eh	-11.60	-0.62	0.00	-31.07	0.00	-31.07	1823.78	478.25	1362.76	1289.51	135.00	0.030
1.0D + 1.0W 60 mph Wind	-45.12	-5.64	0.00	-714.11	0.00	-714.11	4628.91	1339.4	7126.38	6119.66	0.00	0.126



Monopole Mat Foundation Design

Date

8/19/2021

Customer Name:	Verizon	EIA/TIA Standard:	EIA-222-H
Site Name:		Structure Height (Ft.):	195
Site Number:	CT01944-S-SBA	Engineer Name:	T. Alajaj
Engr. Number:	113617	Engineer Login ID:	

Foundation Info Obtained from:

Mapping Operation

Structure Type:

Monopole

Analysis or Design?

Analysis

Base Reactions (Factored):

Axial Load (Kips):	54.1	Shear Force (Kips):	25.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3216.9

Allowable overstress %: 5.0%

Foundation Geometries:

Diameter of Pier (ft.):	7.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	1.00	Depth of Base BG (ft.):	5.5
Length of Pad (ft.):	24.5	Thickness of Pad (ft.):	2.00
		Width of Pad (ft.):	24.5

Final Length of pad (ft)	24.5	Final width of pad (ft):	24.5
--------------------------	------	--------------------------	------

Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	36	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26
---------------------------	----	---------------------------	----

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26
---------------------------	----	---------------------------	----

Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

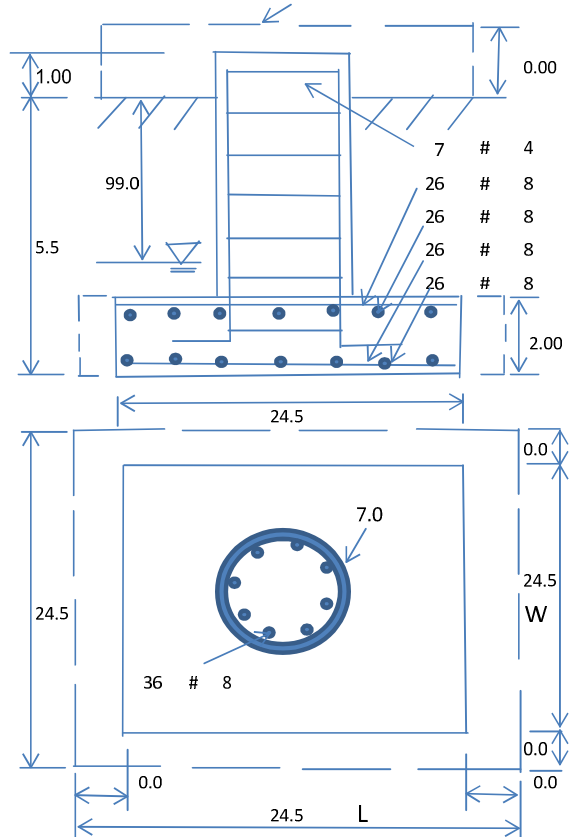
Soil Unit Weight (pcf):	110.0	Soil Buoyant Weight:	50.0	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	4500	Ultimate Skin Friction:	425	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	Yes		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	No					

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	1966.18	Total Dry Soil Weight (Kips):	216.28
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	216.28	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	1373.68	Total Dry Concrete Weight (Kips):	206.05
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	206.05	Total Vertical Load on Base (Kips):	476.43

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2213	< Allowable Factored Soil Bearing (psf):	3375	0.66	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	5318.9	> Design Factored Momont (kips-ft):	3381	0.64	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.57				OK!



Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):

Strength reduction factor (Axial compression):

(1) Concrete Pier:

- Vertical Steel Rebar Area (sq. in./each):
- Calculated Moment Capacity (Mn,Kips-Ft):
- Calculated Shear Capacity (Kips):
- Calculated Tension Capacity (Tn, Kips):
- Calculated Compression Capacity (Pn, Kips):
- Moment & Axial Strength Combination:
- Pier Reinforcement Ratio:

(2).Concrete Pad:

- One-Way Design Shear Capacity (L-Direction, Kips):
- One-Way Design Shear Capacity (W-Direction, Kips):
- One-Way Design Shear Capacity (Corner-Corner, Kips):
- Lower Steel Pad Reinforcement Ratio (L-Direct.):
- Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):
- Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):
- Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):
- Upper Steel Pad Reinforcement Ratio (L-Direct.):
- Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):
- Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):
- Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):

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

- Moment transferred by punching shear:
- Max. factored shear stress $v_{u,AB}$
- Max. factored shear stress v_u

Strength reduction factor (Shear):

Wind Load Factor on Concrete Design:

- Tie / Stirrup Area (sq. in./each):
- > Design Factored Moment (Mu, Kips-
- > Design Factored Shear (Kips):
- > Design Factored Tension (Tu Kips):
- > Design Factored Axial Load (Pu Kips):

OK! Check Tie Spacing (Design/Required):
Reinforcement Ratio is satisfied per ACI

ad
Capacity
Ratio

- One-Way Factored Shear (L-D, Kips): 226.2
- One-Way Factored Shear (W-D., Kips)
- One-Way Factored Shear (C-C, Kips): 230.4
- Lower Steel Pad Reinf. Ratio (W-Direc
- Moment at Bottom (L-Dir. K-Ft):
- Moment at Bottom (W-Dir. K-Ft):
- Moment at Bottom (C-C Dir. K-Ft): 1561.9
- Upper Steel Reinf. Ratio (W-Dir.):
- Moment at the top (L-Dir K-Ft):
- Moment at the top (W-Dir K-Ft):
- Moment at the top (C-C Dir. K-Ft):

1286.8

k-ft.

Max. factored shear stress $v_{u,CD}$

Psi

Psi

Factored shear Strength ϕv_n

Psi

Psi

Check Usage of Punching Shear Capacity:

OK!



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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10085813
Maser Consulting Connecticut Project #: 21777046A (Rev 1)

July 23, 2021

Site Information

Site ID: 467321-VZW / HARWINTON NW CT
Site Name: HARWINTON NW CT
Carrier Name: Verizon Wireless
Address: 133 Clearview Ave
Harwinton, Connecticut 06791
Litchfield County
Latitude: 41.775739°
Longitude: -73.098550°

Structure Information

Tower Type: Monopole
Mount Type: 13.00-Ft Platform

FUZE ID # 16244598

Analysis Results

Platform: 42.1% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Prasanna Dhakal



Digitally signed by Derek Hartzell
Date: 2021.07.23 15:09:06-07'00

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 324070, dated July 1, 2021
Mount Mapping Report	Level-Up Towers Site ID: 467321, dated February 24, 2021
Construction Drawings	All-Points Technology Corp., P.C., Filing #: CT141_12000, dated July 16, 2021
Previous Mount Analysis	Maser Consulting Connecticut, Project #: 21777046A, dated July 7, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21777046A (Rev 1), dated July 23, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust),	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K _e :	0.965
Seismic Parameters:	S _s :	0.176
	S ₁ :	0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, L _v :	250 lbs.
	Maintenance Live Load, L _m :	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
			JMA Wireless		Added
			Samsung		
			Samsung		
			Samsung		
			Raycap		

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Standoff Horizontal</i>	14.5%	Pass
<i>Cross Arm</i>	11.4%	Pass
<i>Face Horizontal</i>	13.3%	Pass
<i>Grating Angle</i>	18.0%	Pass
<i>Standoff Plate</i>	25.9%	Pass
<i>Cross Arm Plate</i>	42.1%	Pass
<i>Mount Pipe</i>	37.6%	Pass
<i>Mod Support Rail</i>	18.7%	Pass
<i>Mod Support Rail Corner</i>	39.0%	Pass
<i>Mod Kicker</i>	7.8%	Pass
<i>Mount Connection (Bolt)</i>	8.1%	Pass
<i>Mount Connection (Plate)</i>	34.3%	Pass

Structure Rating – (Controlling Utilization of all Components)	42.1%
---	--------------

Recommendation:

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

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

Attachments:

- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations
- Contractor Required PMI Report Deliverables**
- Antenna Placement Diagrams
- TIA Adoption and Wind Speed Usage Letter

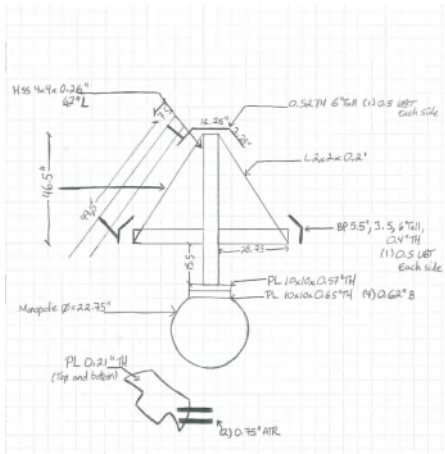


Antenna Mount Mapping Form (PATENT PENDING)



Tower Owner:	SBA	Mapping Date:	2/24/2021
Site Name:	Harwinton NW CT	Tower Type:	Monopole
Site Number or ID:	467321	Tower Height (Ft.):	
Mapping Contractor:	Level-Up Towers	Mount Elevation (Ft.):	179

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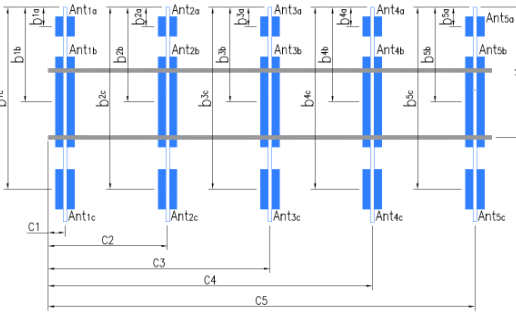
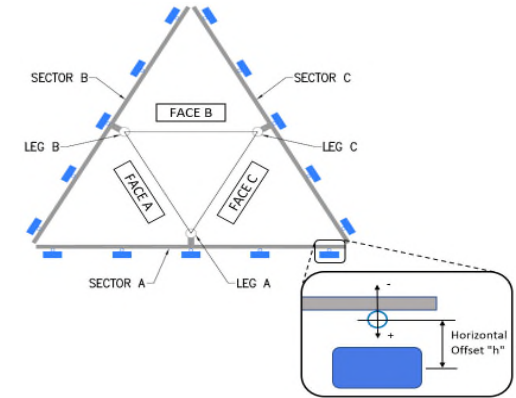


Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
	P2.37x0.18", 96" Long				P2.37x0.18", 96" Long		
	P2.37x0.18", 96" Long				P2.37x0.18", 96" Long		
	P2.37x0.18", 96" Long				P2.37x0.18", 96" Long		
	P2.37x0.18", 96" Long				P2.37x0.18", 96" Long		
	P2.37x0.18", 96" Long				P2.37x0.18", 96" Long		
	P2.37x0.18", 96" Long						
	P2.37x0.18", 96" Long						
	P2.37x0.18", 96" Long						
	P2.37x0.18", 96" Long						
	P2.37x0.18", 96" Long						

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :
 Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):
 Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):
 Please enter additional information or comments below.

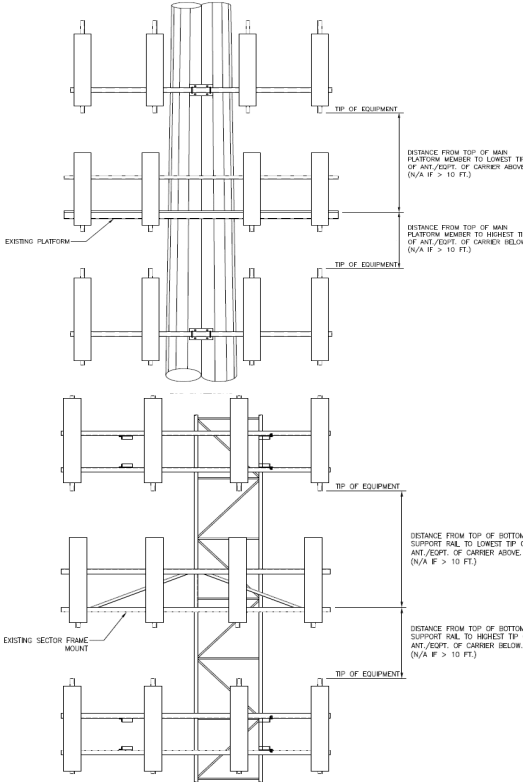
Tower Face Width at Mount Elev. (ft.): Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):

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 "b , b b , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant	Amphenol LPA-80063									
Ant _{1b}										
Ant _{1c}										
Ant	Amphenol LPA-17108									
Ant _{2b}										
Ant _{2c}										
Ant	Amphenol BXA-70063									
Ant _{3b}										
Ant _{3c}										
Ant	Amphenol LPA-17106									
Ant _{4b}										
Ant _{4c}										
Ant	Amphenol LPA-80063									
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector		Sector B																			
Sector A:	Deg	Leg A:	Deg	Ant	Amphenol LPA-80063																		
Sector B:	Deg	Leg B:	Deg	Ant _{1b}																			
Sector C:	Deg	Leg C:	Deg	Ant _{1c}																			
Sector D:	Deg	Leg D:	Deg	Ant	Amphenol LPA-17108																		
Climbing Facility Information				Ant _{2b}																			
Location:	Deg			Ant _{2c}																			
Climbing Facility	Corrosion Type:			Ant	Amphenol BXA-70063																		
	Access:			Ant _{3b}																			
	Condition:			Ant _{3c}																			
				Ant	Amphenol LPA-17106																		
				Ant _{4b}																			
				Ant _{4c}																			
				Ant	Amphenol LPA-80063																		
				Ant _{5b}																			
				Ant _{5c}																			
				Ant on Standoff																			
				Ant on Standoff																			
				Ant on Tower																			
				Ant on Tower																			
				Sector C																			
				Ant	Amphenol LPA-80063																		
				Ant _{1b}																			
				Ant _{1c}																			
				Ant	Amphenol LPA-17108																		
				Ant _{2b}																			
				Ant _{2c}																			
				Ant	Amphenol BXA-70063																		
				Ant _{3b}																			
				Ant _{3c}																			
				Ant	Amphenol LPA-17106																		
				Ant _{4b}																			
				Ant _{4c}																			
				Ant	Amphenol LPA-80063																		
				Ant _{5b}																			
				Ant _{5c}																			
				Ant on Standoff																			
				Ant on Standoff																			
				Ant on Tower																			
				Ant on Tower																			
				Sector D																			
				Ant																			
				Ant _{1b}																			
				Ant _{1c}																			
				Ant																			
				Ant _{2b}																			
				Ant _{2c}																			
				Ant																			
				Ant _{3b}																			
				Ant _{3c}																			
				Ant																			
				Ant _{4b}																			
				Ant _{4c}																			
				Ant																			
				Ant _{5b}																			
				Ant _{5c}																			
				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 #

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.

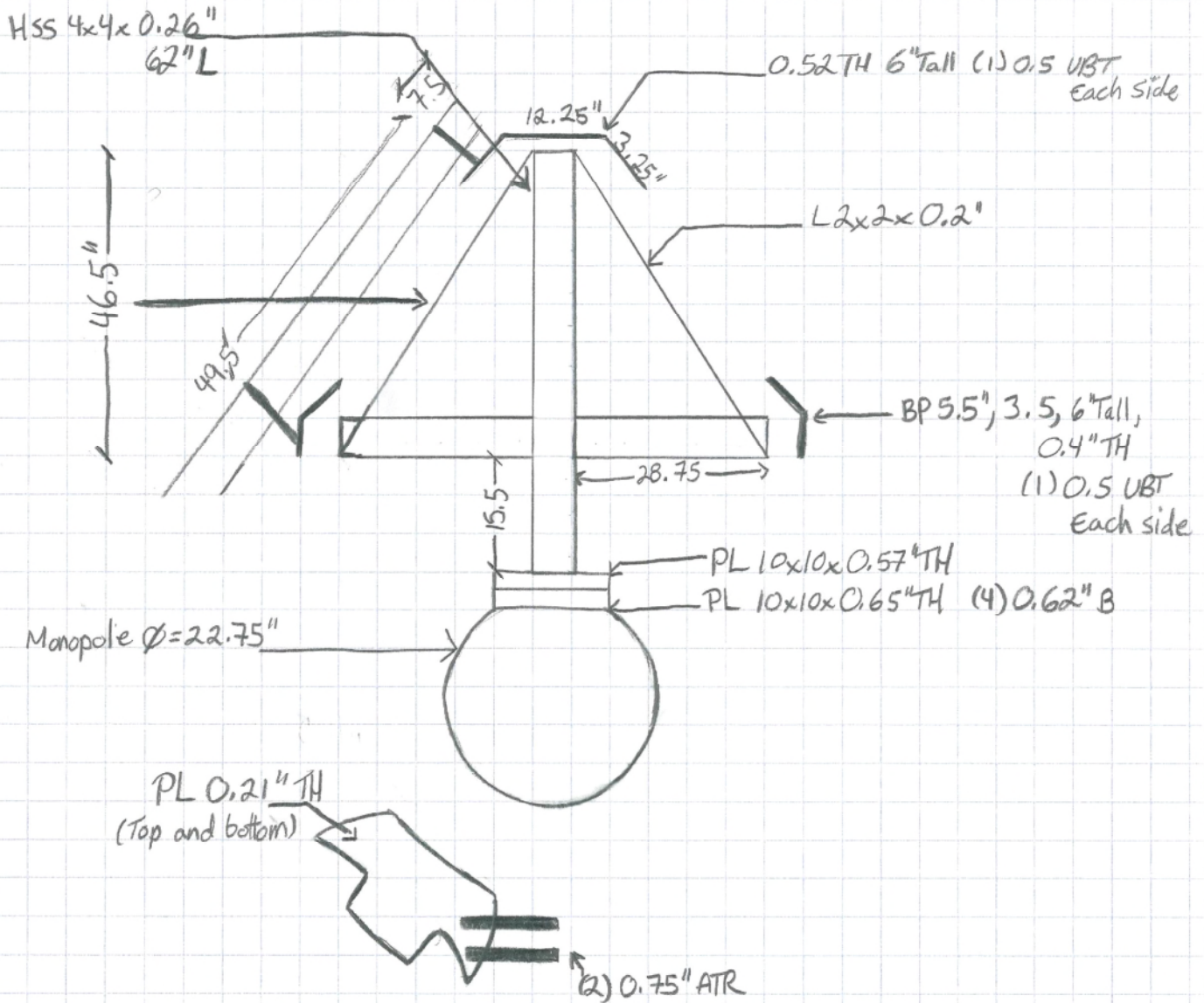


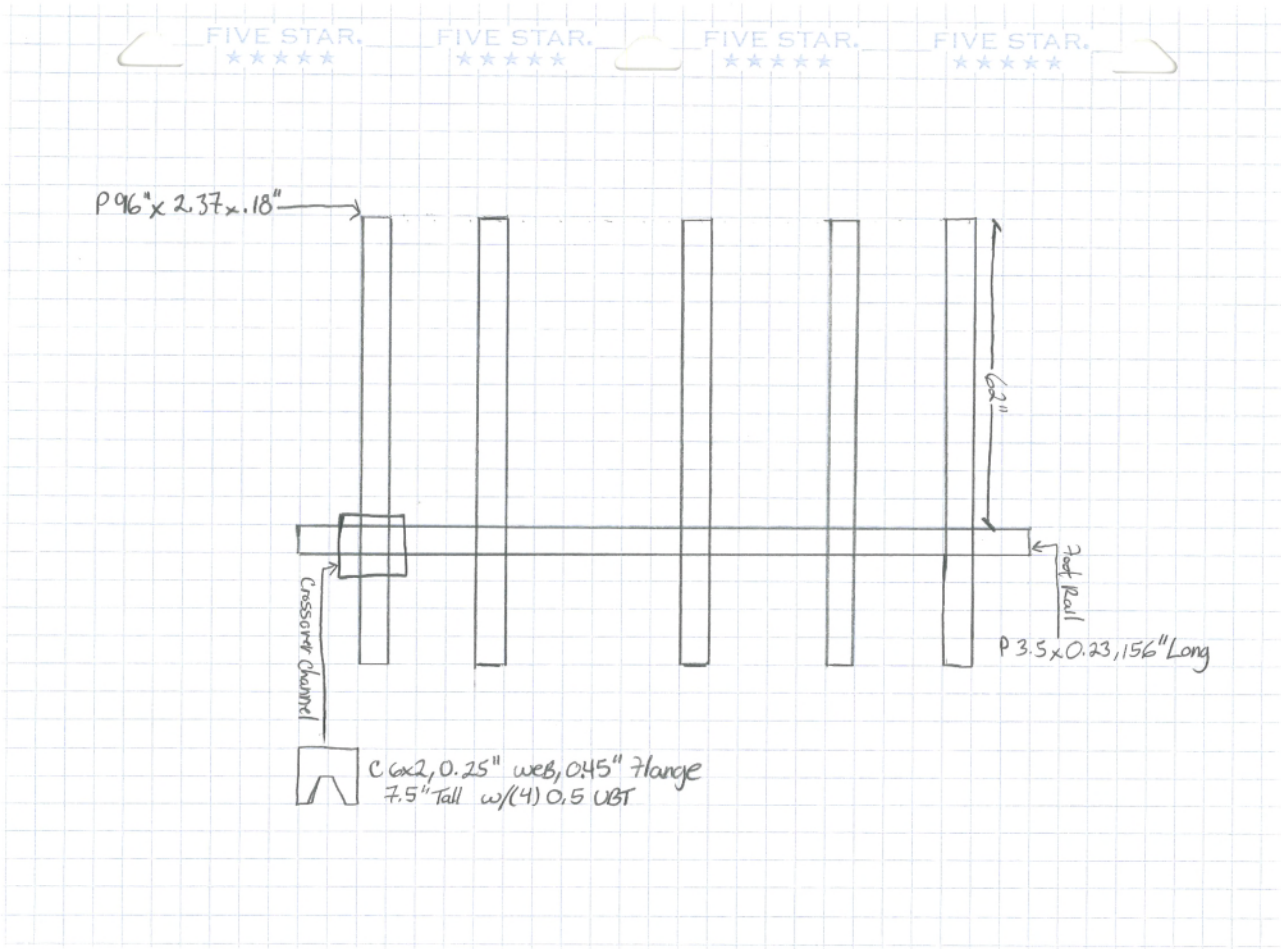
Antenna Mount Mapping Form (PATENT PENDING)

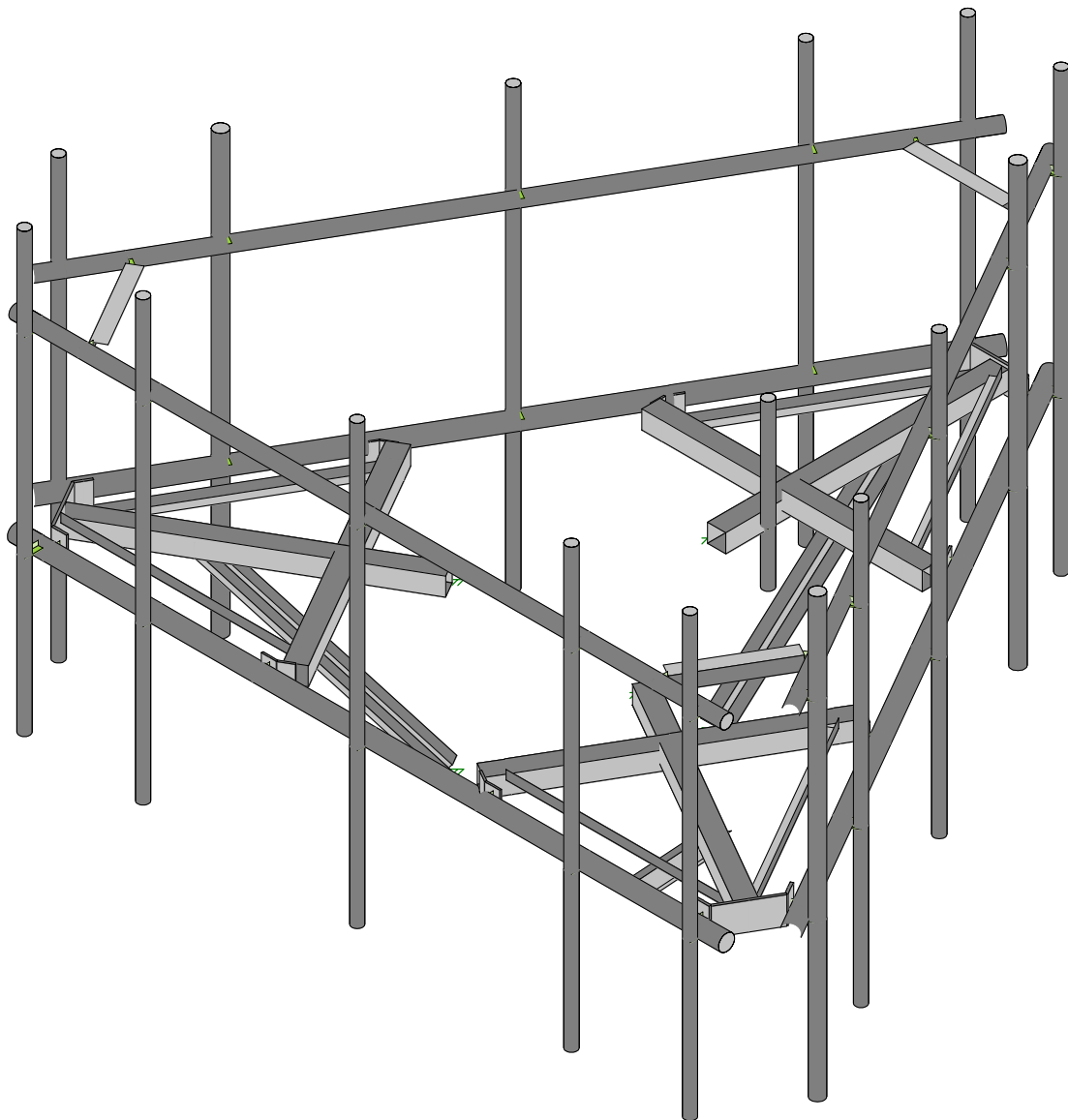
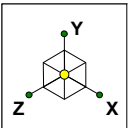
Tower Owner:	SBA	Mapping Date:	2/24/2021
Site Name:	Harwinton NW CT	Tower Type:	Monopole
Site Number or ID:	467321	Tower Height (Ft.):	
Mapping Contractor:	Level-Up Towers	Mount Elevation (Ft.):	179

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Please Insert Sketches of the Antenna Mount

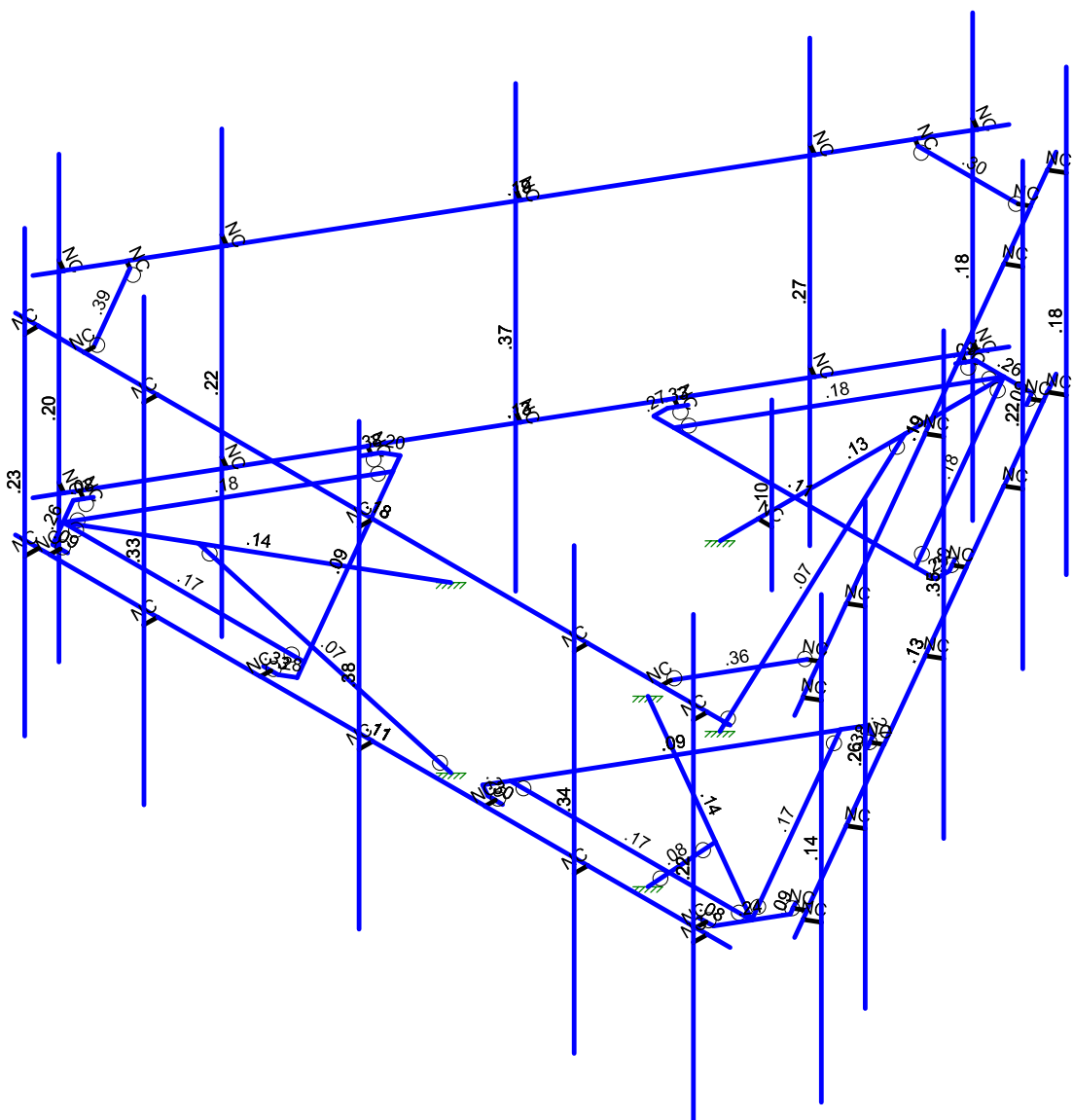
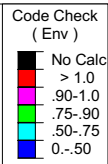
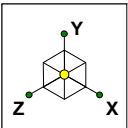






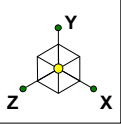
Envelope Only Solution

Maser Consulting	Antenna Mount Analysis	SK - 2
		July 22, 2021 at 7:11 PM
Project # 21777046A		467321-VZW_MT_LO_H.r3d



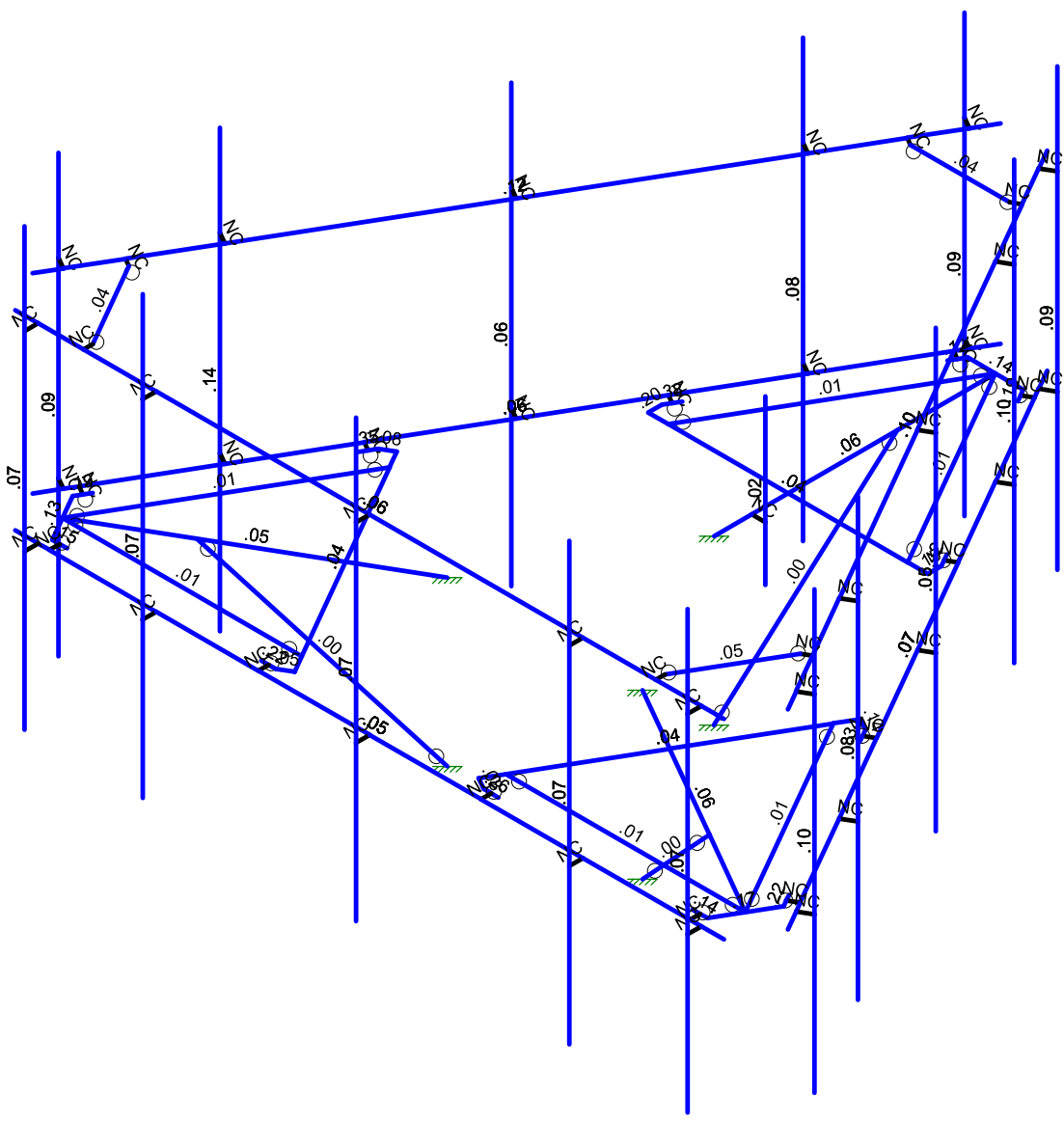
Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Antenna Mount Analysis	SK - 3
		July 22, 2021 at 7:11 PM
Project # 21777046A		467321-VZW_MT_LO_H.r3d



Shear Check (Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Antenna Mount Analysis	SK - 4
		July 22, 2021 at 7:11 PM
Project # 21777046A		467321-VZW_MT_LO_H.r3d



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(Member)	Surface...
1	Antenna D	None					75			
2	Antenna Di	None					75			
3	Antenna Wo (0 Deg)	None					75			
4	Antenna Wo (30 Deg)	None					75			
5	Antenna Wo (60 Deg)	None					75			
6	Antenna Wo (90 Deg)	None					75			
7	Antenna Wo (120 Deg)	None					75			
8	Antenna Wo (150 Deg)	None					75			
9	Antenna Wo (180 Deg)	None					75			
10	Antenna Wo (210 Deg)	None					75			
11	Antenna Wo (240 Deg)	None					75			
12	Antenna Wo (270 Deg)	None					75			
13	Antenna Wo (300 Deg)	None					75			
14	Antenna Wo (330 Deg)	None					75			
15	Antenna Wi (0 Deg)	None					75			
16	Antenna Wi (30 Deg)	None					75			
17	Antenna Wi (60 Deg)	None					75			
18	Antenna Wi (90 Deg)	None					75			
19	Antenna Wi (120 Deg)	None					75			
20	Antenna Wi (150 Deg)	None					75			
21	Antenna Wi (180 Deg)	None					75			
22	Antenna Wi (210 Deg)	None					75			
23	Antenna Wi (240 Deg)	None					75			
24	Antenna Wi (270 Deg)	None					75			
25	Antenna Wi (300 Deg)	None					75			
26	Antenna Wi (330 Deg)	None					75			
27	Antenna Wm (0 Deg)	None					75			
28	Antenna Wm (30 Deg)	None					75			
29	Antenna Wm (60 Deg)	None					75			
30	Antenna Wm (90 Deg)	None					75			
31	Antenna Wm (120 Deg)	None					75			
32	Antenna Wm (150 Deg)	None					75			
33	Antenna Wm (180 Deg)	None					75			
34	Antenna Wm (210 Deg)	None					75			
35	Antenna Wm (240 Deg)	None					75			
36	Antenna Wm (270 Deg)	None					75			
37	Antenna Wm (300 Deg)	None					75			
38	Antenna Wm (330 Deg)	None					75			
39	Structure D	None		-1					3	
40	Structure Di	None						61	3	
41	Structure Wo (0 Deg)	None						122		
42	Structure Wo (30 Deg)	None						122		
43	Structure Wo (60 Deg)	None						122		
44	Structure Wo (90 Deg)	None						122		
45	Structure Wo (120 Deg)	None						122		
46	Structure Wo (150 Deg)	None						122		
47	Structure Wo (180 Deg)	None						122		
48	Structure Wo (210 Deg)	None						122		
49	Structure Wo (240 Deg)	None						122		
50	Structure Wo (270 Deg)	None						122		
51	Structure Wo (300 Deg)	None						122		



Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribu...	Area(Member)	Surface...
52 Structure Wo (330 Deg)	None						122		
53 Structure Wi (0 Deg)	None						122		
54 Structure Wi (30 Deg)	None						122		
55 Structure Wi (60 Deg)	None						122		
56 Structure Wi (90 Deg)	None						122		
57 Structure Wi (120 Deg)	None						122		
58 Structure Wi (150 Deg)	None						122		
59 Structure Wi (180 Deg)	None						122		
60 Structure Wi (210 Deg)	None						122		
61 Structure Wi (240 Deg)	None						122		
62 Structure Wi (270 Deg)	None						122		
63 Structure Wi (300 Deg)	None						122		
64 Structure Wi (330 Deg)	None						122		
65 Structure Wm (0 Deg)	None						122		
66 Structure Wm (30 Deg)	None						122		
67 Structure Wm (60 Deg)	None						122		
68 Structure Wm (90 Deg)	None						122		
69 Structure Wm (120 Deg)	None						122		
70 Structure Wm (150 Deg)	None						122		
71 Structure Wm (180 Deg)	None						122		
72 Structure Wm (210 Deg)	None						122		
73 Structure Wm (240 Deg)	None						122		
74 Structure Wm (270 Deg)	None						122		
75 Structure Wm (300 Deg)	None						122		
76 Structure Wm (330 Deg)	None						122		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			
81 BLC 39 Transient Area Loads	None						18		
82 BLC 40 Transient Area Loads	None						18		

Load Combinations

Description	So..P...	SRSS	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
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 D...	Yes Y		1	1.2	39	1.2	7	1	45	1									
6 1.2D+1.0Wo (150 D...	Yes Y		1	1.2	39	1.2	8	1	46	1									
7 1.2D+1.0Wo (180 D...	Yes Y		1	1.2	39	1.2	9	1	47	1									
8 1.2D+1.0Wo (210 D...	Yes Y		1	1.2	39	1.2	10	1	48	1									
9 1.2D+1.0Wo (240 D...	Yes Y		1	1.2	39	1.2	11	1	49	1									
10 1.2D+1.0Wo (270 D...	Yes Y		1	1.2	39	1.2	12	1	50	1									
11 1.2D+1.0Wo (300 D...	Yes Y		1	1.2	39	1.2	13	1	51	1									
12 1.2D+1.0Wo (330 D...	Yes Y		1	1.2	39	1.2	14	1	52	1									
13 1.2D + 1.0Di + 1.0W...	Yes Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1					
14 1.2D + 1.0Di + 1.0W...	Yes Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1					
15 1.2D + 1.0Di + 1.0W...	Yes Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1					
16 1.2D + 1.0Di + 1.0W...	Yes Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1					



Load Combinations (Continued)

	Description	So..P...	SRSS	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
17	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0Di + 1.0W ...	Yes Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5Lm1 + 1.0...	Yes Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5Lm2 + 1.0...	Yes Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5Lv1	Yes Y		1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5Lv2	Yes Y		1	1.2	39	1.2	80	1.5										
51	1.4D	Yes Y		1	1.4	39	1.4												
52	Seismic Mass	Y		1	1	39	1												
53	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX		SY	1	SZ	-1						
54	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866						
55	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5						
56	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	1	SY	1	SZ							
57	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5						
58	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866						
59	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX		SY	1	SZ	1						
60	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866						
61	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5						
62	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	-1	SY	1	SZ							
63	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5						
64	1.2D + 1.0Ev + 1.0E...	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866						



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-0.	0	-2.068254	0	
2	N2	-0.	0	-7.234921	0	
3	N3	-0.	0	-3.430608	0	
4	N4	2.5625	0	-3.430608	0	
5	N5	-2.5625	0	-3.430608	0	
6	N6	6.5	0	4.246994	0	
7	N7	-6.5	0	4.246994	0	
8	N8	-6.265625	0	3.61746	0	
9	N9	-1.872783	0	3.61746	0	
10	N10	1.872783	0	3.61746	0	
11	N11	6.265625	0	3.61746	0	
12	N12	0.645833	0	-7.000372	0	
13	N13	0.510417	0	-7.234921	0	
14	N14	-0.645833	0	-7.000372	0	
15	N15	-0.510417	0	-7.234921	0	
16	N17	-2.5625	0	-3.680608	0	
17	N18	-2.427083	0	-3.915157	0	
18	N20	2.5625	0	-3.680608	0	
19	N21	2.427083	0	-3.915157	0	
20	N22	-0.578125	0	-7.117646	0	
21	N23	-0.740505	0	-7.211396	0	
22	N24	0.578125	0	-7.117646	0	
23	N25	0.740505	0	-7.211396	0	
24	N26	2.494792	0	-3.797882	0	
25	N27	2.657171	0	-3.891632	0	
26	N28	-2.494792	0	-3.797882	0	
27	N29	-2.657171	0	-3.891632	0	
28	N30	6.083333	0	4.246994	0	
29	N31	3.916667	0	4.246994	0	
30	N32	0.	0	4.246994	0	
31	N33	-3.916667	0	4.246994	0	
32	N34	-6.083333	0	4.246994	0	
33	N35	6.083333	0	4.496994	0	
34	N36	3.916667	0	4.496994	0	
35	N37	0.	0	4.496994	0	
36	N38	-3.916667	0	4.496994	0	
37	N39	-6.083333	0	4.496994	0	
38	N40	6.083333	5.166667	4.496994	0	
39	N41	3.916667	5.166667	4.496994	0	
40	N42	0.	5.166667	4.496994	0	
41	N43	-3.916667	5.166667	4.496994	0	
42	N44	-6.083333	5.166667	4.496994	0	
43	N45	6.083333	-2.833333	4.496994	0	
44	N46	3.916667	-2.833333	4.496994	0	
45	N47	0.	-2.833333	4.496994	0	
46	N48	-3.916667	-2.833333	4.496994	0	
47	N49	-6.083333	-2.833333	4.496994	0	
48	N50	1.79116	0	1.034127	0	
49	N52	2.970994	0	1.715304	0	
50	N53	1.689744	0	3.934494	0	
51	N54	4.252244	0	-0.503886	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N55	-6.928005	0	3.505668	0	
53	N56	-0.428005	0	-7.752662	0	
54	N58	-2.196421	0	-3.430608	0	
55	N59	-4.069204	0	-0.186852	0	
56	N61	5.739583	0	4.059494	0	
57	N62	6.010417	0	4.059494	0	
58	N63	6.385417	0	2.940878	0	
59	N64	6.520833	0	3.175426	0	
60	N66	4.46875	0	-0.378886	0	
61	N67	4.604167	0	-0.144338	0	
62	N69	1.90625	0	4.059494	0	
63	N70	2.177083	0	4.059494	0	
64	N71	6.453125	0	3.058152	0	
65	N72	6.615505	0	2.964402	0	
66	N73	5.875	0	4.059494	0	
67	N74	5.875	0	4.246994	0	
68	N75	2.041667	0	4.059494	0	
69	N76	2.041667	0	4.246994	0	
70	N77	4.536458	0	-0.261612	0	
71	N78	4.698838	0	-0.355362	0	
72	N79	-6.719671	0	3.144824	0	
73	N80	-5.636338	0	1.268436	0	
74	N81	-3.678005	0	-2.123497	0	
75	N82	-1.719671	0	-5.51543	0	
76	N83	-0.636338	0	-7.391818	0	
77	N84	-6.936178	0	3.019824	0	
78	N85	-5.852844	0	1.143436	0	
79	N86	-3.894511	0	-2.248497	0	
80	N87	-1.936178	0	-5.64043	0	
81	N88	-0.852844	0	-7.516818	0	
82	N89	-6.936178	5.166667	3.019824	0	
83	N90	-5.852844	5.166667	1.143436	0	
84	N91	-3.894511	5.166667	-2.248497	0	
85	N92	-1.936178	5.166667	-5.64043	0	
86	N93	-0.852844	5.166667	-7.516818	0	
87	N94	-6.936178	-2.833333	3.019824	0	
88	N95	-5.852844	-2.833333	1.143436	0	
89	N96	-3.894511	-2.833333	-2.248497	0	
90	N97	-1.936178	-2.833333	-5.64043	0	
91	N98	-0.852844	-2.833333	-7.516818	0	
92	N99	-1.79116	0	1.034127	0	
93	N101	-2.970994	0	1.715304	0	
94	N102	-4.252244	0	-0.503886	0	
95	N103	-1.689744	0	3.934494	0	
96	N104	0.428005	0	-7.752662	0	
97	N105	6.928005	0	3.505668	0	
98	N107	4.069204	0	-0.186852	0	
99	N108	2.196421	0	-3.430608	0	
100	N110	-6.385417	0	2.940878	0	
101	N111	-6.520833	0	3.175426	0	
102	N112	-5.739583	0	4.059494	0	
103	N113	-6.010417	0	4.059494	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
104	N115	-1.90625	0	4.059494	0	
105	N116	-2.177083	0	4.059494	0	
106	N118	-4.46875	0	-0.378886	0	
107	N119	-4.604167	0	-0.144338	0	
108	N120	-5.875	0	4.059494	0	
109	N121	-5.875	0	4.246994	0	
110	N122	-6.453125	0	3.058152	0	
111	N123	-6.615505	0	2.964402	0	
112	N124	-4.536458	0	-0.261612	0	
113	N125	-4.698838	0	-0.355362	0	
114	N126	-2.041667	0	4.059494	0	
115	N127	-2.041667	0	4.246994	0	
116	N128	0.636338	0	-7.391818	0	
117	N129	1.719671	0	-5.51543	0	
118	N130	3.678005	0	-2.123497	0	
119	N131	5.636338	0	1.268436	0	
120	N132	6.719671	0	3.144824	0	
121	N133	0.852844	0	-7.516818	0	
122	N134	1.936178	0	-5.64043	0	
123	N135	3.894511	0	-2.248497	0	
124	N136	5.852844	0	1.143436	0	
125	N137	6.936178	0	3.019824	0	
126	N138	0.852844	5.166667	-7.516818	0	
127	N139	1.936178	5.166667	-5.64043	0	
128	N140	3.894511	5.166667	-2.248497	0	
129	N141	5.852844	5.166667	1.143436	0	
130	N142	6.936178	5.166667	3.019824	0	
131	N143	0.852844	-2.833333	-7.516818	0	
132	N144	1.936178	-2.833333	-5.64043	0	
133	N145	3.894511	-2.833333	-2.248497	0	
134	N146	5.852844	-2.833333	1.143436	0	
135	N147	6.936178	-2.833333	3.019824	0	
136	N142A	-0.	0	-2.763941	0	
137	N143A	.25	0	-2.763941	0	
138	N144A	.25	2	-2.763941	0	
139	N145A	.25	-1	-2.763941	0	
140	N146A	6.5	3.5	4.246994	0	
141	N147A	-6.5	3.5	4.246994	0	
142	N148	6.083333	3.5	4.246994	0	
143	N149	3.916667	3.5	4.246994	0	
144	N150	0.	3.5	4.246994	0	
145	N151	-3.916667	3.5	4.246994	0	
146	N152	-6.083333	3.5	4.246994	0	
147	N153	6.083333	3.5	4.496994	0	
148	N154	3.916667	3.5	4.496994	0	
149	N155	0.	3.5	4.496994	0	
150	N156	-3.916667	3.5	4.496994	0	
151	N157	-6.083333	3.5	4.496994	0	
152	N158	-5.25	3.5	4.246994	0	
153	N159	-5.25	3.5	4.080327	0	
154	N160	5.25	3.5	4.246994	0	
155	N161	5.25	3.5	4.080327	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
156	N162	0.428005	3.5	-7.752662	0	
157	N163	6.928005	3.5	3.505668	0	
158	N164	0.636338	3.5	-7.391818	0	
159	N165	1.719671	3.5	-5.51543	0	
160	N166	3.678005	3.5	-2.123497	0	
161	N167	5.636338	3.5	1.268436	0	
162	N168	6.719671	3.5	3.144824	0	
163	N169	0.852844	3.5	-7.516818	0	
164	N170	1.936178	3.5	-5.64043	0	
165	N171	3.894511	3.5	-2.248497	0	
166	N172	5.852844	3.5	1.143436	0	
167	N173	6.936178	3.5	3.019824	0	
168	N174	6.303005	3.5	2.423136	0	
169	N175	6.158667	3.5	2.50647	0	
170	N176	1.053005	3.5	-6.67013	0	
171	N177	0.908667	3.5	-6.586797	0	
172	N178	-6.928005	3.5	3.505668	0	
173	N179	-0.428005	3.5	-7.752662	0	
174	N180	-6.719671	3.5	3.144824	0	
175	N181	-5.636338	3.5	1.268436	0	
176	N182	-3.678005	3.5	-2.123497	0	
177	N183	-1.719671	3.5	-5.51543	0	
178	N184	-0.636338	3.5	-7.391818	0	
179	N185	-6.936178	3.5	3.019824	0	
180	N186	-5.852844	3.5	1.143436	0	
181	N187	-3.894511	3.5	-2.248497	0	
182	N188	-1.936178	3.5	-5.64043	0	
183	N189	-0.852844	3.5	-7.516818	0	
184	N190	-1.053005	3.5	-6.67013	0	
185	N191	-0.908667	3.5	-6.586797	0	
186	N192	-6.303005	3.5	2.423136	0	
187	N193	-6.158667	3.5	2.50647	0	
188	N194	-0.	0	-5.430608	0	
189	N195	-0.	-3	-2.068254	0	
190	N196	-4.703044	0	2.715304	0	
191	N197	-1.79116	-3	1.034127	0	
192	N198	4.703044	0	2.715304	0	
193	N199	1.79116	-3	1.034127	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
2	Cross Arm	HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
3	Standoff Plate	PL1/2x6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237
4	Cross Arm Plate	PL3/8x4	Beam	RECT	A36 Gr.36	Typical	1.5	.018	2	.066
5	Grating Angle	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
7	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
8	Mount Pipe (dual)	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Mod Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
10	Mod Support Rail Corner	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
11	Mod Kicker	LL3x3x3x3	Column	Double Angle (...)	A36 Gr.36	Typical	2.18	4.09	1.9	.027

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...Density[k/...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	.3	.65	.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	.3	.65	.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
9	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
1	OVP2	N1	N2			Standoff Horizontal	Beam	SquareTube	A500 Gr.B R...	Typical
2	M2	N4	N5			Cross Arm	Beam	SquareTube	A500 Gr.B R...	Typical
3	M3	N6	N7			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
4	M4	N8	N9		270	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N10	N11		270	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N12	N13			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
7	M7	N14	N15			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
8	M8	N15	N13			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
9	M9	N5	N17			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
10	M10	N17	N18			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
11	M11	N4	N20			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
12	M12	N20	N21			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
13	M13	N22	N23			RIGID	None	None	RIGID	Typical
14	M14	N24	N25			RIGID	None	None	RIGID	Typical
15	M15	N26	N27			RIGID	None	None	RIGID	Typical
16	M16	N28	N29			RIGID	None	None	RIGID	Typical
17	M22	N34	N39			RIGID	None	None	RIGID	Typical
18	M23	N33	N38			RIGID	None	None	RIGID	Typical
19	M24	N32	N37			RIGID	None	None	RIGID	Typical
20	M25	N31	N36			RIGID	None	None	RIGID	Typical
21	M26	N30	N35			RIGID	None	None	RIGID	Typical
22	M27	N50	N11			Standoff Horizontal	Beam	SquareTube	A500 Gr.B R...	Typical
23	M28	N53	N54			Cross Arm	Beam	SquareTube	A500 Gr.B R...	Typical
24	M29	N55	N56			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
25	M30	N2	N58		270	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
26	M31	N59	N8		270	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
27	M32	N61	N62			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
28	M33	N63	N64			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
29	M34	N64	N62			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
30	M35	N54	N66			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
31	M36	N66	N67			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
32	M37	N53	N69			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
33	M38	N69	N70			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
34	M39	N71	N72			RIGID	None	None	RIGID	Typical
35	M40	N73	N74			RIGID	None	None	RIGID	Typical
36	M41	N75	N76			RIGID	None	None	RIGID	Typical
37	M42	N77	N78			RIGID	None	None	RIGID	Typical
38	M48	N83	N88			RIGID	None	None	RIGID	Typical
39	M49	N82	N87			RIGID	None	None	RIGID	Typical
40	M50	N81	N86			RIGID	None	None	RIGID	Typical
41	M51	N80	N85			RIGID	None	None	RIGID	Typical
42	M52	N79	N84			RIGID	None	None	RIGID	Typical
43	M53	N99	N8			Standoff Horizontal	Beam	SquareTube	A500 Gr.B R...	Typical
44	M54	N102	N103			Cross Arm	Beam	SquareTube	A500 Gr.B R...	Typical
45	M55	N104	N105			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
46	M56	N11	N107		270	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
47	M57	N108	N2		270	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
48	M58	N110	N111			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
49	M59	N112	N113			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
50	M60	N113	N111			Standoff Plate	Beam	RECT	A36 Gr.36	Typical
51	M61	N103	N115			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
52	M62	N115	N116			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
53	M63	N102	N118			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
54	M64	N118	N119			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
55	M65	N120	N121			RIGID	None	None	RIGID	Typical
56	M66	N122	N123			RIGID	None	None	RIGID	Typical
57	M67	N124	N125			RIGID	None	None	RIGID	Typical
58	M68	N126	N127			RIGID	None	None	RIGID	Typical
59	M74	N132	N137			RIGID	None	None	RIGID	Typical
60	M75	N131	N136			RIGID	None	None	RIGID	Typical
61	M76	N130	N135			RIGID	None	None	RIGID	Typical
62	M77	N129	N134			RIGID	None	None	RIGID	Typical
63	M78	N128	N133			RIGID	None	None	RIGID	Typical
64	MP1A	N40	N45			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
65	MP1B	N89	N94		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
66	MP1C	N138	N143		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
67	MP2A	N41	N46			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
68	MP2B	N90	N95		120	Mount Pipe (dual)	Column	Pipe	A53 Gr.B	Typical
69	MP2C	N139	N144		240	Mount Pipe (dual)	Column	Pipe	A53 Gr.B	Typical
70	MP3A	N42	N47			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
71	MP3B	N91	N96		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
72	MP3C	N140	N145		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
73	MP4A	N43	N48			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
74	MP4B	N92	N97		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
75	MP4C	N141	N146		240	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
76	MP5A	N44	N49			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
77	MP5B	N93	N98		120	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
78	MP5C	N142	N147		240	Mount Pipe (dual)	Column	Pipe	A53 Gr.B	Typical
79	M79	N142A	N143A			RIGID	None	None	RIGID	Typical
80	OVP	N144A	N145A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
81	M81	N152	N157			RIGID	None	None	RIGID	Typical
82	M82	N151	N156			RIGID	None	None	RIGID	Typical
83	M83	N150	N155			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...)	Section/Shape	Type	Design List	Material	Design Rules
84	M84	N149	N154			RIGID	None	None	RIGID	Typical
85	M85	N148	N153			RIGID	None	None	RIGID	Typical
86	M86	N147A	N146A			Mod Support Rail	Beam	Pipe	A53 Gr.B	Typical
87	M87	N158	N159			RIGID	None	None	RIGID	Typical
88	M88	N160	N161			RIGID	None	None	RIGID	Typical
89	M89	N168	N173			RIGID	None	None	RIGID	Typical
90	M90	N167	N172			RIGID	None	None	RIGID	Typical
91	M91	N166	N171			RIGID	None	None	RIGID	Typical
92	M92	N165	N170			RIGID	None	None	RIGID	Typical
93	M93	N164	N169			RIGID	None	None	RIGID	Typical
94	M94	N163	N162			Mod Support Rail	Beam	Pipe	A53 Gr.B	Typical
95	M95	N174	N175			RIGID	None	None	RIGID	Typical
96	M96	N176	N177			RIGID	None	None	RIGID	Typical
97	M97	N184	N189			RIGID	None	None	RIGID	Typical
98	M98	N183	N188			RIGID	None	None	RIGID	Typical
99	M99	N182	N187			RIGID	None	None	RIGID	Typical
100	M100	N181	N186			RIGID	None	None	RIGID	Typical
101	M101	N180	N185			RIGID	None	None	RIGID	Typical
102	M102	N179	N178			Mod Support Rail	Beam	Pipe	A53 Gr.B	Typical
103	M103	N190	N191			RIGID	None	None	RIGID	Typical
104	M104	N192	N193			RIGID	None	None	RIGID	Typical
105	M105	N159	N193		90	Mod Support Rail ...	Column	Single Angle	A36 Gr.36	Typical
106	M106	N191	N177		90	Mod Support Rail ...	Column	Single Angle	A36 Gr.36	Typical
107	M107	N175	N161		90	Mod Support Rail ...	Column	Single Angle	A36 Gr.36	Typical
108	M108	N194	N195			Mod Kicker	Column	Double Angle ...	A36 Gr.36	Typical
109	M109	N196	N197			Mod Kicker	Column	Double Angle ...	A36 Gr.36	Typical
110	M110	N198	N199			Mod Kicker	Column	Double Angle ...	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	OVP2						Yes				None
2	M2						Yes				None
3	M3						Yes				None
4	M4	OOOOXO	OOOOXO				Yes				None
5	M5	OOOOXO	OOOOXO				Yes				None
6	M6						Yes				None
7	M7						Yes				None
8	M8						Yes				None
9	M9						Yes				None
10	M10						Yes				None
11	M11						Yes				None
12	M12						Yes				None
13	M13		BenPIN				Yes	** NA **			None
14	M14		BenPIN				Yes	** NA **			None
15	M15		BenPIN				Yes	** NA **			None
16	M16		BenPIN				Yes	** NA **			None
17	M22						Yes	** NA **			None
18	M23						Yes	** NA **			None
19	M24						Yes	** NA **			None
20	M25						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...Analysis ...	Inactive	Seismic...
21	M26						Yes	** NA **		None
22	M27						Yes			None
23	M28						Yes			None
24	M29						Yes			None
25	M30	OOOOXO	OOOOXO				Yes			None
26	M31	OOOOXO	OOOOXO				Yes			None
27	M32						Yes			None
28	M33						Yes			None
29	M34						Yes			None
30	M35						Yes			None
31	M36						Yes			None
32	M37						Yes			None
33	M38						Yes			None
34	M39		BenPIN				Yes	** NA **		None
35	M40		BenPIN				Yes	** NA **		None
36	M41		BenPIN				Yes	** NA **		None
37	M42		BenPIN				Yes	** NA **		None
38	M48						Yes	** NA **		None
39	M49						Yes	** NA **		None
40	M50						Yes	** NA **		None
41	M51						Yes	** NA **		None
42	M52						Yes	** NA **		None
43	M53						Yes			None
44	M54						Yes			None
45	M55						Yes			None
46	M56	OOOOXO	OOOOXO				Yes			None
47	M57	OOOOXO	OOOOXO				Yes			None
48	M58						Yes			None
49	M59						Yes			None
50	M60						Yes			None
51	M61						Yes			None
52	M62						Yes			None
53	M63						Yes			None
54	M64						Yes			None
55	M65		BenPIN				Yes	** NA **		None
56	M66		BenPIN				Yes	** NA **		None
57	M67		BenPIN				Yes	** NA **		None
58	M68		BenPIN				Yes	** NA **		None
59	M74						Yes	** NA **		None
60	M75						Yes	** NA **		None
61	M76						Yes	** NA **		None
62	M77						Yes	** NA **		None
63	M78						Yes	** NA **		None
64	MP1A						Yes	** NA **		None
65	MP1B						Yes	** NA **		None
66	MP1C						Yes	** NA **		None
67	MP2A						Yes	** NA **		None
68	MP2B						Yes	** NA **		None
69	MP2C						Yes	** NA **		None
70	MP3A						Yes	** NA **		None
71	MP3B						Yes	** NA **		None
72	MP3C						Yes	** NA **		None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
73	MP4A						Yes	** NA **			None
74	MP4B						Yes	** NA **			None
75	MP4C						Yes	** NA **			None
76	MP5A						Yes	** NA **			None
77	MP5B						Yes	** NA **			None
78	MP5C						Yes	** NA **			None
79	M79						Yes	** NA **			None
80	OVP						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87	OOOOOX					Yes	** NA **			None
88	M88	OOOOOX					Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	M93						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	M95	OOOOOX					Yes	** NA **			None
96	M96	OOOOOX					Yes	** NA **			None
97	M97						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	M99						Yes	** NA **			None
100	M100						Yes	** NA **			None
101	M101						Yes	** NA **			None
102	M102						Yes	** NA **			None
103	M103	OOOOOX					Yes	** NA **			None
104	M104	OOOOOX					Yes	** NA **			None
105	M105						Yes	** NA **			None
106	M106						Yes	** NA **			None
107	M107						Yes	** NA **			None
108	M108	BenPIN	BenPIN				Yes	** NA **			None
109	M109	BenPIN	BenPIN				Yes	** NA **			None
110	M110	BenPIN	BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2B	Y	-23	.5
2	MP2B	My	-.016	.5
3	MP2B	Mz	-.017	.5
4	MP2B	Y	-23	5
5	MP2B	My	-.016	5
6	MP2B	Mz	-.017	5
7	MP2C	Y	-23	.5
8	MP2C	My	.017	.5
9	MP2C	Mz	-.016	.5



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

Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]	
10	MP2C	Y	-23	5
11	MP2C	My	.017	5
12	MP2C	Mz	-.016	5
13	MP2B	Y	-23	.5
14	MP2B	My	.019	.5
15	MP2B	Mz	-.014	.5
16	MP2B	Y	-23	5
17	MP2B	My	.019	5
18	MP2B	Mz	-.014	5
19	MP2C	Y	-23	.5
20	MP2C	My	.014	.5
21	MP2C	Mz	.019	.5
22	MP2C	Y	-23	5
23	MP2C	My	.014	5
24	MP2C	Mz	.019	5
25	MP5C	Y	-23	.5
26	MP5C	My	.021	.5
27	MP5C	Mz	.01	.5
28	MP5C	Y	-23	5
29	MP5C	My	.021	5
30	MP5C	Mz	.01	5
31	MP5C	Y	-23	.5
32	MP5C	My	-.013	.5
33	MP5C	Mz	.019	.5
34	MP5C	Y	-23	5
35	MP5C	My	-.013	5
36	MP5C	Mz	.019	5
37	MP3B	Y	-43.55	1.75
38	MP3B	My	-.012	1.75
39	MP3B	Mz	-.026	1.75
40	MP3B	Y	-43.55	3.75
41	MP3B	My	-.012	3.75
42	MP3B	Mz	-.026	3.75
43	MP3C	Y	-43.55	1.75
44	MP3C	My	.029	1.75
45	MP3C	Mz	.003	1.75
46	MP3C	Y	-43.55	3.75
47	MP3C	My	.029	3.75
48	MP3C	Mz	.003	3.75
49	MP5A	Y	-43.55	1.75
50	MP5A	My	-.017	1.75
51	MP5A	Mz	.024	1.75
52	MP5A	Y	-43.55	3.75
53	MP5A	My	-.017	3.75
54	MP5A	Mz	.024	3.75
55	MP2A	Y	-84.4	3.5
56	MP2A	My	.056	3.5
57	MP2A	Mz	0	3.5
58	MP3B	Y	-84.4	3.5
59	MP3B	My	-.028	3.5
60	MP3B	Mz	.049	3.5
61	MP3C	Y	-84.4	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP3C	My	-.028	3.5
63	MP3C	Mz	-.049	3.5
64	MP2B	Y	-70.3	3.5
65	MP2B	My	-.023	3.5
66	MP2B	Mz	.041	3.5
67	MP2C	Y	-70.3	3.5
68	MP2C	My	-.023	3.5
69	MP2C	Mz	-.041	3.5
70	MP4C	Y	-70.3	3.5
71	MP4C	My	-.023	3.5
72	MP4C	Mz	-.041	3.5
73	OVP	Y	-32	.75
74	OVP	My	0	.75
75	OVP	Mz	0	.75

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	Y	-85.041	.5
2	MP2B	My	-.059	.5
3	MP2B	Mz	-.062	.5
4	MP2B	Y	-85.041	5
5	MP2B	My	-.059	5
6	MP2B	Mz	-.062	5
7	MP2C	Y	-85.041	.5
8	MP2C	My	.062	.5
9	MP2C	Mz	-.059	.5
10	MP2C	Y	-85.041	5
11	MP2C	My	.062	5
12	MP2C	Mz	-.059	5
13	MP2B	Y	-85.041	.5
14	MP2B	My	.068	.5
15	MP2B	Mz	-.051	.5
16	MP2B	Y	-85.041	5
17	MP2B	My	.068	5
18	MP2B	Mz	-.051	5
19	MP2C	Y	-85.041	.5
20	MP2C	My	.051	.5
21	MP2C	Mz	.068	.5
22	MP2C	Y	-85.041	5
23	MP2C	My	.051	5
24	MP2C	Mz	.068	5
25	MP5C	Y	-85.041	.5
26	MP5C	My	.076	.5
27	MP5C	Mz	.038	.5
28	MP5C	Y	-85.041	5
29	MP5C	My	.076	5
30	MP5C	Mz	.038	5
31	MP5C	Y	-85.041	.5
32	MP5C	My	-.047	.5
33	MP5C	Mz	.071	.5
34	MP5C	Y	-85.041	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP5C	My	-.047	5
36	MP5C	Mz	.071	5
37	MP3B	Y	-36.759	1.75
38	MP3B	My	-.01	1.75
39	MP3B	Mz	-.022	1.75
40	MP3B	Y	-36.759	3.75
41	MP3B	My	-.01	3.75
42	MP3B	Mz	-.022	3.75
43	MP3C	Y	-36.759	1.75
44	MP3C	My	.024	1.75
45	MP3C	Mz	.002	1.75
46	MP3C	Y	-36.759	3.75
47	MP3C	My	.024	3.75
48	MP3C	Mz	.002	3.75
49	MP5A	Y	-36.759	1.75
50	MP5A	My	-.014	1.75
51	MP5A	Mz	.02	1.75
52	MP5A	Y	-36.759	3.75
53	MP5A	My	-.014	3.75
54	MP5A	Mz	.02	3.75
55	MP2A	Y	-46.366	3.5
56	MP2A	My	.031	3.5
57	MP2A	Mz	0	3.5
58	MP3B	Y	-46.366	3.5
59	MP3B	My	-.015	3.5
60	MP3B	Mz	.027	3.5
61	MP3C	Y	-46.366	3.5
62	MP3C	My	-.015	3.5
63	MP3C	Mz	-.027	3.5
64	MP2B	Y	-41.707	3.5
65	MP2B	My	-.014	3.5
66	MP2B	Mz	.024	3.5
67	MP2C	Y	-41.707	3.5
68	MP2C	My	-.014	3.5
69	MP2C	Mz	-.024	3.5
70	MP4C	Y	-41.707	3.5
71	MP4C	My	-.014	3.5
72	MP4C	Mz	-.024	3.5
73	OVP	Y	-90.528	.75
74	OVP	My	0	.75
75	OVP	Mz	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	.5
2	MP2B	Z	-120.816	.5
3	MP2B	Mx	.088	.5
4	MP2B	X	0	5
5	MP2B	Z	-120.816	5
6	MP2B	Mx	.088	5
7	MP2C	X	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2C	Z	-161.764	.5
9	MP2C	Mx	.111	.5
10	MP2C	X	0	5
11	MP2C	Z	-161.764	5
12	MP2C	Mx	.111	5
13	MP2B	X	0	.5
14	MP2B	Z	-120.816	.5
15	MP2B	Mx	.072	.5
16	MP2B	X	0	5
17	MP2B	Z	-120.816	5
18	MP2B	Mx	.072	5
19	MP2C	X	0	.5
20	MP2C	Z	-161.764	.5
21	MP2C	Mx	-.13	.5
22	MP2C	X	0	5
23	MP2C	Z	-161.764	5
24	MP2C	Mx	-.13	5
25	MP5C	X	0	.5
26	MP5C	Z	-123.286	.5
27	MP5C	Mx	-.055	.5
28	MP5C	X	0	5
29	MP5C	Z	-123.286	5
30	MP5C	Mx	-.055	5
31	MP5C	X	0	.5
32	MP5C	Z	-123.286	.5
33	MP5C	Mx	-.103	.5
34	MP5C	X	0	5
35	MP5C	Z	-123.286	5
36	MP5C	Mx	-.103	5
37	MP3B	X	0	1.75
38	MP3B	Z	-38.604	1.75
39	MP3B	Mx	.023	1.75
40	MP3B	X	0	3.75
41	MP3B	Z	-38.604	3.75
42	MP3B	Mx	.023	3.75
43	MP3C	X	0	1.75
44	MP3C	Z	-76.824	1.75
45	MP3C	Mx	-.004	1.75
46	MP3C	X	0	3.75
47	MP3C	Z	-76.824	3.75
48	MP3C	Mx	-.004	3.75
49	MP5A	X	0	1.75
50	MP5A	Z	-45.667	1.75
51	MP5A	Mx	-.025	1.75
52	MP5A	X	0	3.75
53	MP5A	Z	-45.667	3.75
54	MP5A	Mx	-.025	3.75
55	MP2A	X	0	3.5
56	MP2A	Z	-61.416	3.5
57	MP2A	Mx	0	3.5
58	MP3B	X	0	3.5
59	MP3B	Z	-46.144	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP3B	Mx	-.027	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	-46.144	3.5
63	MP3C	Mx	.027	3.5
64	MP2B	X	0	3.5
65	MP2B	Z	-40.294	3.5
66	MP2B	Mx	-.023	3.5
67	MP2C	X	0	3.5
68	MP2C	Z	-40.294	3.5
69	MP2C	Mx	.023	3.5
70	MP4C	X	0	3.5
71	MP4C	Z	-40.294	3.5
72	MP4C	Mx	.023	3.5
73	OVP	X	0	.75
74	OVP	Z	-101.253	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	63.963	.5
2	MP2B	Z	-110.788	.5
3	MP2B	Mx	.037	.5
4	MP2B	X	63.963	5
5	MP2B	Z	-110.788	5
6	MP2B	Mx	.037	5
7	MP2C	X	77.327	.5
8	MP2C	Z	-133.934	.5
9	MP2C	Mx	.149	.5
10	MP2C	X	77.327	5
11	MP2C	Z	-133.934	5
12	MP2C	Mx	.149	5
13	MP2B	X	63.963	.5
14	MP2B	Z	-110.788	.5
15	MP2B	Mx	.118	.5
16	MP2B	X	63.963	5
17	MP2B	Z	-110.788	5
18	MP2B	Mx	.118	5
19	MP2C	X	77.327	.5
20	MP2C	Z	-133.934	.5
21	MP2C	Mx	-.062	.5
22	MP2C	X	77.327	5
23	MP2C	Z	-133.934	5
24	MP2C	Mx	-.062	5
25	MP5C	X	70.645	.5
26	MP5C	Z	-122.361	.5
27	MP5C	Mx	.008	.5
28	MP5C	X	70.645	5
29	MP5C	Z	-122.361	5
30	MP5C	Mx	.008	5
31	MP5C	X	70.645	.5
32	MP5C	Z	-122.361	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP5C	Mx	-.142	.5
34	MP5C	X	70.645	5
35	MP5C	Z	-122.361	5
36	MP5C	Mx	-.142	5
37	MP3B	X	30.865	1.75
38	MP3B	Z	-53.46	1.75
39	MP3B	Mx	.024	1.75
40	MP3B	X	30.865	3.75
41	MP3B	Z	-53.46	3.75
42	MP3B	Mx	.024	3.75
43	MP3C	X	34.396	1.75
44	MP3C	Z	-59.576	1.75
45	MP3C	Mx	.019	1.75
46	MP3C	X	34.396	3.75
47	MP3C	Z	-59.576	3.75
48	MP3C	Mx	.019	3.75
49	MP5A	X	15.286	1.75
50	MP5A	Z	-26.477	1.75
51	MP5A	Mx	-.02	1.75
52	MP5A	X	15.286	3.75
53	MP5A	Z	-26.477	3.75
54	MP5A	Mx	-.02	3.75
55	MP2A	X	28.163	3.5
56	MP2A	Z	-48.78	3.5
57	MP2A	Mx	.019	3.5
58	MP3B	X	20.527	3.5
59	MP3B	Z	-35.554	3.5
60	MP3B	Mx	-.027	3.5
61	MP3C	X	28.163	3.5
62	MP3C	Z	-48.78	3.5
63	MP3C	Mx	.019	3.5
64	MP2B	X	16.627	3.5
65	MP2B	Z	-28.798	3.5
66	MP2B	Mx	-.022	3.5
67	MP2C	X	27.188	3.5
68	MP2C	Z	-47.091	3.5
69	MP2C	Mx	.018	3.5
70	MP4C	X	27.188	3.5
71	MP4C	Z	-47.091	3.5
72	MP4C	Mx	.018	3.5
73	OVP	X	54.56	.75
74	OVP	Z	-94.5	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	128.519	.5
2	MP2B	Z	-74.2	.5
3	MP2B	Mx	-.034	.5
4	MP2B	X	128.519	5
5	MP2B	Z	-74.2	5



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
6	MP2B	Mx	-.034	5
7	MP2C	X	116.203	.5
8	MP2C	Z	-67.09	.5
9	MP2C	Mx	.131	.5
10	MP2C	X	116.203	5
11	MP2C	Z	-67.09	5
12	MP2C	Mx	.131	5
13	MP2B	X	128.519	.5
14	MP2B	Z	-74.2	.5
15	MP2B	Mx	.148	.5
16	MP2B	X	128.519	5
17	MP2B	Z	-74.2	5
18	MP2B	Mx	.148	5
19	MP2C	X	116.203	.5
20	MP2C	Z	-67.09	.5
21	MP2C	Mx	.016	.5
22	MP2C	X	116.203	5
23	MP2C	Z	-67.09	5
24	MP2C	Mx	.016	5
25	MP5C	X	137.953	.5
26	MP5C	Z	-79.647	.5
27	MP5C	Mx	.088	.5
28	MP5C	X	137.953	5
29	MP5C	Z	-79.647	5
30	MP5C	Mx	.088	5
31	MP5C	X	137.953	.5
32	MP5C	Z	-79.647	.5
33	MP5C	Mx	-.143	.5
34	MP5C	X	137.953	5
35	MP5C	Z	-79.647	5
36	MP5C	Mx	-.143	5
37	MP3B	X	66.532	1.75
38	MP3B	Z	-38.412	1.75
39	MP3B	Mx	.004	1.75
40	MP3B	X	66.532	3.75
41	MP3B	Z	-38.412	3.75
42	MP3B	Mx	.004	3.75
43	MP3C	X	39.549	1.75
44	MP3C	Z	-22.834	1.75
45	MP3C	Mx	.025	1.75
46	MP3C	X	39.549	3.75
47	MP3C	Z	-22.834	3.75
48	MP3C	Mx	.025	3.75
49	MP5A	X	33.432	1.75
50	MP5A	Z	-19.302	1.75
51	MP5A	Mx	-.023	1.75
52	MP5A	X	33.432	3.75
53	MP5A	Z	-19.302	3.75
54	MP5A	Mx	-.023	3.75
55	MP2A	X	39.962	3.5
56	MP2A	Z	-23.072	3.5
57	MP2A	Mx	.027	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3B	X	39.962	3.5
59	MP3B	Z	-23.072	3.5
60	MP3B	Mx	-.027	3.5
61	MP3C	X	53.188	3.5
62	MP3C	Z	-30.708	3.5
63	MP3C	Mx	0	3.5
64	MP2B	X	34.896	3.5
65	MP2B	Z	-20.147	3.5
66	MP2B	Mx	-.023	3.5
67	MP2C	X	53.188	3.5
68	MP2C	Z	-30.708	3.5
69	MP2C	Mx	0	3.5
70	MP4C	X	53.188	3.5
71	MP4C	Z	-30.708	3.5
72	MP4C	Mx	0	3.5
73	OVP	X	108.124	.75
74	OVP	Z	-62.425	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	161.764	.5
2	MP2B	Z	0	.5
3	MP2B	Mx	-.111	.5
4	MP2B	X	161.764	5
5	MP2B	Z	0	5
6	MP2B	Mx	-.111	5
7	MP2C	X	120.816	.5
8	MP2C	Z	0	.5
9	MP2C	Mx	.088	.5
10	MP2C	X	120.816	5
11	MP2C	Z	0	5
12	MP2C	Mx	.088	5
13	MP2B	X	161.764	.5
14	MP2B	Z	0	.5
15	MP2B	Mx	.13	.5
16	MP2B	X	161.764	5
17	MP2B	Z	0	5
18	MP2B	Mx	.13	5
19	MP2C	X	120.816	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	.072	.5
22	MP2C	X	120.816	5
23	MP2C	Z	0	5
24	MP2C	Mx	.072	5
25	MP5C	X	159.295	.5
26	MP5C	Z	0	.5
27	MP5C	Mx	.143	.5
28	MP5C	X	159.295	5
29	MP5C	Z	0	5
30	MP5C	Mx	.143	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP5C	X	159.295	.5
32	MP5C	Z	0	.5
33	MP5C	Mx	-.088	.5
34	MP5C	X	159.295	5
35	MP5C	Z	0	5
36	MP5C	Mx	-.088	5
37	MP3B	X	68.793	1.75
38	MP3B	Z	0	1.75
39	MP3B	Mx	-.019	1.75
40	MP3B	X	68.793	3.75
41	MP3B	Z	0	3.75
42	MP3B	Mx	-.019	3.75
43	MP3C	X	30.573	1.75
44	MP3C	Z	0	1.75
45	MP3C	Mx	.02	1.75
46	MP3C	X	30.573	3.75
47	MP3C	Z	0	3.75
48	MP3C	Mx	.02	3.75
49	MP5A	X	61.73	1.75
50	MP5A	Z	0	1.75
51	MP5A	Mx	-.024	1.75
52	MP5A	X	61.73	3.75
53	MP5A	Z	0	3.75
54	MP5A	Mx	-.024	3.75
55	MP2A	X	41.054	3.5
56	MP2A	Z	0	3.5
57	MP2A	Mx	.027	3.5
58	MP3B	X	56.326	3.5
59	MP3B	Z	0	3.5
60	MP3B	Mx	-.019	3.5
61	MP3C	X	56.326	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	-.019	3.5
64	MP2B	X	54.376	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	-.018	3.5
67	MP2C	X	54.376	3.5
68	MP2C	Z	0	3.5
69	MP2C	Mx	-.018	3.5
70	MP4C	X	54.376	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	-.018	3.5
73	OVP	X	132.716	.75
74	OVP	Z	0	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	133.934	.5
2	MP2B	Z	77.327	.5
3	MP2B	Mx	-.149	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2B	X	133.934	5
5	MP2B	Z	77.327	5
6	MP2B	Mx	-.149	5
7	MP2C	X	110.788	.5
8	MP2C	Z	63.963	.5
9	MP2C	Mx	.037	.5
10	MP2C	X	110.788	5
11	MP2C	Z	63.963	5
12	MP2C	Mx	.037	5
13	MP2B	X	133.934	.5
14	MP2B	Z	77.327	.5
15	MP2B	Mx	.062	.5
16	MP2B	X	133.934	5
17	MP2B	Z	77.327	5
18	MP2B	Mx	.062	5
19	MP2C	X	110.788	.5
20	MP2C	Z	63.963	.5
21	MP2C	Mx	.118	.5
22	MP2C	X	110.788	5
23	MP2C	Z	63.963	5
24	MP2C	Mx	.118	5
25	MP5C	X	122.361	.5
26	MP5C	Z	70.645	.5
27	MP5C	Mx	.142	.5
28	MP5C	X	122.361	5
29	MP5C	Z	70.645	5
30	MP5C	Mx	.142	5
31	MP5C	X	122.361	.5
32	MP5C	Z	70.645	.5
33	MP5C	Mx	-.008	.5
34	MP5C	X	122.361	5
35	MP5C	Z	70.645	5
36	MP5C	Mx	-.008	5
37	MP3B	X	39.549	1.75
38	MP3B	Z	22.834	1.75
39	MP3B	Mx	-.025	1.75
40	MP3B	X	39.549	3.75
41	MP3B	Z	22.834	3.75
42	MP3B	Mx	-.025	3.75
43	MP3C	X	33.432	1.75
44	MP3C	Z	19.302	1.75
45	MP3C	Mx	.023	1.75
46	MP3C	X	33.432	3.75
47	MP3C	Z	19.302	3.75
48	MP3C	Mx	.023	3.75
49	MP5A	X	66.532	1.75
50	MP5A	Z	38.412	1.75
51	MP5A	Mx	-.004	1.75
52	MP5A	X	66.532	3.75
53	MP5A	Z	38.412	3.75
54	MP5A	Mx	-.004	3.75
55	MP2A	X	39.962	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
56	MP2A	Z	23.072	3.5
57	MP2A	Mx	.027	3.5
58	MP3B	X	53.188	3.5
59	MP3B	Z	30.708	3.5
60	MP3B	Mx	0	3.5
61	MP3C	X	39.962	3.5
62	MP3C	Z	23.072	3.5
63	MP3C	Mx	-.027	3.5
64	MP2B	X	53.188	3.5
65	MP2B	Z	30.708	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	34.896	3.5
68	MP2C	Z	20.147	3.5
69	MP2C	Mx	-.023	3.5
70	MP4C	X	34.896	3.5
71	MP4C	Z	20.147	3.5
72	MP4C	Mx	-.023	3.5
73	OVP	X	108.124	.75
74	OVP	Z	62.425	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	67.09	.5
2	MP2B	Z	116.203	.5
3	MP2B	Mx	-.131	.5
4	MP2B	X	67.09	5
5	MP2B	Z	116.203	5
6	MP2B	Mx	-.131	5
7	MP2C	X	74.2	.5
8	MP2C	Z	128.519	.5
9	MP2C	Mx	-.034	.5
10	MP2C	X	74.2	5
11	MP2C	Z	128.519	5
12	MP2C	Mx	-.034	5
13	MP2B	X	67.09	.5
14	MP2B	Z	116.203	.5
15	MP2B	Mx	-.016	.5
16	MP2B	X	67.09	5
17	MP2B	Z	116.203	5
18	MP2B	Mx	-.016	5
19	MP2C	X	74.2	.5
20	MP2C	Z	128.519	.5
21	MP2C	Mx	.148	.5
22	MP2C	X	74.2	5
23	MP2C	Z	128.519	5
24	MP2C	Mx	.148	5
25	MP5C	X	61.643	.5
26	MP5C	Z	106.768	.5
27	MP5C	Mx	.103	.5
28	MP5C	X	61.643	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP5C	Z	106.768	5
30	MP5C	Mx	.103	5
31	MP5C	X	61.643	.5
32	MP5C	Z	106.768	.5
33	MP5C	Mx	.055	.5
34	MP5C	X	61.643	5
35	MP5C	Z	106.768	5
36	MP5C	Mx	.055	5
37	MP3B	X	15.286	1.75
38	MP3B	Z	26.477	1.75
39	MP3B	Mx	-.02	1.75
40	MP3B	X	15.286	3.75
41	MP3B	Z	26.477	3.75
42	MP3B	Mx	-.02	3.75
43	MP3C	X	30.865	1.75
44	MP3C	Z	53.46	1.75
45	MP3C	Mx	.024	1.75
46	MP3C	X	30.865	3.75
47	MP3C	Z	53.46	3.75
48	MP3C	Mx	.024	3.75
49	MP5A	X	34.396	1.75
50	MP5A	Z	59.576	1.75
51	MP5A	Mx	.019	1.75
52	MP5A	X	34.396	3.75
53	MP5A	Z	59.576	3.75
54	MP5A	Mx	.019	3.75
55	MP2A	X	28.163	3.5
56	MP2A	Z	48.78	3.5
57	MP2A	Mx	.019	3.5
58	MP3B	X	28.163	3.5
59	MP3B	Z	48.78	3.5
60	MP3B	Mx	.019	3.5
61	MP3C	X	20.527	3.5
62	MP3C	Z	35.554	3.5
63	MP3C	Mx	-.027	3.5
64	MP2B	X	27.188	3.5
65	MP2B	Z	47.091	3.5
66	MP2B	Mx	.018	3.5
67	MP2C	X	16.627	3.5
68	MP2C	Z	28.798	3.5
69	MP2C	Mx	-.022	3.5
70	MP4C	X	16.627	3.5
71	MP4C	Z	28.798	3.5
72	MP4C	Mx	-.022	3.5
73	OVP	X	54.56	.75
74	OVP	Z	94.5	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	0	.5



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2B	Z	120.816	.5
3	MP2B	Mx	-.088	.5
4	MP2B	X	0	5
5	MP2B	Z	120.816	5
6	MP2B	Mx	-.088	5
7	MP2C	X	0	.5
8	MP2C	Z	161.764	.5
9	MP2C	Mx	-.111	.5
10	MP2C	X	0	5
11	MP2C	Z	161.764	5
12	MP2C	Mx	-.111	5
13	MP2B	X	0	.5
14	MP2B	Z	120.816	.5
15	MP2B	Mx	-.072	.5
16	MP2B	X	0	5
17	MP2B	Z	120.816	5
18	MP2B	Mx	-.072	5
19	MP2C	X	0	.5
20	MP2C	Z	161.764	.5
21	MP2C	Mx	.13	.5
22	MP2C	X	0	5
23	MP2C	Z	161.764	5
24	MP2C	Mx	.13	5
25	MP5C	X	0	.5
26	MP5C	Z	123.286	.5
27	MP5C	Mx	.055	.5
28	MP5C	X	0	5
29	MP5C	Z	123.286	5
30	MP5C	Mx	.055	5
31	MP5C	X	0	.5
32	MP5C	Z	123.286	.5
33	MP5C	Mx	.103	.5
34	MP5C	X	0	5
35	MP5C	Z	123.286	5
36	MP5C	Mx	.103	5
37	MP3B	X	0	1.75
38	MP3B	Z	38.604	1.75
39	MP3B	Mx	-.023	1.75
40	MP3B	X	0	3.75
41	MP3B	Z	38.604	3.75
42	MP3B	Mx	-.023	3.75
43	MP3C	X	0	1.75
44	MP3C	Z	76.824	1.75
45	MP3C	Mx	.004	1.75
46	MP3C	X	0	3.75
47	MP3C	Z	76.824	3.75
48	MP3C	Mx	.004	3.75
49	MP5A	X	0	1.75
50	MP5A	Z	45.667	1.75
51	MP5A	Mx	.025	1.75
52	MP5A	X	0	3.75
53	MP5A	Z	45.667	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
54	MP5A	Mx	.025	3.75
55	MP2A	X	0	3.5
56	MP2A	Z	61.416	3.5
57	MP2A	Mx	0	3.5
58	MP3B	X	0	3.5
59	MP3B	Z	46.144	3.5
60	MP3B	Mx	.027	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	46.144	3.5
63	MP3C	Mx	-.027	3.5
64	MP2B	X	0	3.5
65	MP2B	Z	40.294	3.5
66	MP2B	Mx	.023	3.5
67	MP2C	X	0	3.5
68	MP2C	Z	40.294	3.5
69	MP2C	Mx	-.023	3.5
70	MP4C	X	0	3.5
71	MP4C	Z	40.294	3.5
72	MP4C	Mx	-.023	3.5
73	OVP	X	0	.75
74	OVP	Z	101.253	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-63.963	.5
2	MP2B	Z	110.788	.5
3	MP2B	Mx	-.037	.5
4	MP2B	X	-63.963	5
5	MP2B	Z	110.788	5
6	MP2B	Mx	-.037	5
7	MP2C	X	-77.327	.5
8	MP2C	Z	133.934	.5
9	MP2C	Mx	-.149	.5
10	MP2C	X	-77.327	5
11	MP2C	Z	133.934	5
12	MP2C	Mx	-.149	5
13	MP2B	X	-63.963	.5
14	MP2B	Z	110.788	.5
15	MP2B	Mx	-.118	.5
16	MP2B	X	-63.963	5
17	MP2B	Z	110.788	5
18	MP2B	Mx	-.118	5
19	MP2C	X	-77.327	.5
20	MP2C	Z	133.934	.5
21	MP2C	Mx	.062	.5
22	MP2C	X	-77.327	5
23	MP2C	Z	133.934	5
24	MP2C	Mx	.062	5
25	MP5C	X	-70.645	.5
26	MP5C	Z	122.361	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP5C	Mx	-.008	.5
28	MP5C	X	-70.645	5
29	MP5C	Z	122.361	5
30	MP5C	Mx	-.008	5
31	MP5C	X	-70.645	.5
32	MP5C	Z	122.361	.5
33	MP5C	Mx	.142	.5
34	MP5C	X	-70.645	5
35	MP5C	Z	122.361	5
36	MP5C	Mx	.142	5
37	MP3B	X	-30.865	1.75
38	MP3B	Z	53.46	1.75
39	MP3B	Mx	-.024	1.75
40	MP3B	X	-30.865	3.75
41	MP3B	Z	53.46	3.75
42	MP3B	Mx	-.024	3.75
43	MP3C	X	-34.396	1.75
44	MP3C	Z	59.576	1.75
45	MP3C	Mx	-.019	1.75
46	MP3C	X	-34.396	3.75
47	MP3C	Z	59.576	3.75
48	MP3C	Mx	-.019	3.75
49	MP5A	X	-15.286	1.75
50	MP5A	Z	26.477	1.75
51	MP5A	Mx	.02	1.75
52	MP5A	X	-15.286	3.75
53	MP5A	Z	26.477	3.75
54	MP5A	Mx	.02	3.75
55	MP2A	X	-28.163	3.5
56	MP2A	Z	48.78	3.5
57	MP2A	Mx	-.019	3.5
58	MP3B	X	-20.527	3.5
59	MP3B	Z	35.554	3.5
60	MP3B	Mx	.027	3.5
61	MP3C	X	-28.163	3.5
62	MP3C	Z	48.78	3.5
63	MP3C	Mx	-.019	3.5
64	MP2B	X	-16.627	3.5
65	MP2B	Z	28.798	3.5
66	MP2B	Mx	.022	3.5
67	MP2C	X	-27.188	3.5
68	MP2C	Z	47.091	3.5
69	MP2C	Mx	-.018	3.5
70	MP4C	X	-27.188	3.5
71	MP4C	Z	47.091	3.5
72	MP4C	Mx	-.018	3.5
73	OVP	X	-54.56	.75
74	OVP	Z	94.5	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-128.519	.5
2	MP2B	Z	74.2	.5
3	MP2B	Mx	.034	.5
4	MP2B	X	-128.519	5
5	MP2B	Z	74.2	5
6	MP2B	Mx	.034	5
7	MP2C	X	-116.203	.5
8	MP2C	Z	67.09	.5
9	MP2C	Mx	-.131	.5
10	MP2C	X	-116.203	5
11	MP2C	Z	67.09	5
12	MP2C	Mx	-.131	5
13	MP2B	X	-128.519	.5
14	MP2B	Z	74.2	.5
15	MP2B	Mx	-.148	.5
16	MP2B	X	-128.519	5
17	MP2B	Z	74.2	5
18	MP2B	Mx	-.148	5
19	MP2C	X	-116.203	.5
20	MP2C	Z	67.09	.5
21	MP2C	Mx	-.016	.5
22	MP2C	X	-116.203	5
23	MP2C	Z	67.09	5
24	MP2C	Mx	-.016	5
25	MP5C	X	-137.953	.5
26	MP5C	Z	79.647	.5
27	MP5C	Mx	-.088	.5
28	MP5C	X	-137.953	5
29	MP5C	Z	79.647	5
30	MP5C	Mx	-.088	5
31	MP5C	X	-137.953	.5
32	MP5C	Z	79.647	.5
33	MP5C	Mx	.143	.5
34	MP5C	X	-137.953	5
35	MP5C	Z	79.647	5
36	MP5C	Mx	.143	5
37	MP3B	X	-66.532	1.75
38	MP3B	Z	38.412	1.75
39	MP3B	Mx	-.004	1.75
40	MP3B	X	-66.532	3.75
41	MP3B	Z	38.412	3.75
42	MP3B	Mx	-.004	3.75
43	MP3C	X	-39.549	1.75
44	MP3C	Z	22.834	1.75
45	MP3C	Mx	-.025	1.75
46	MP3C	X	-39.549	3.75
47	MP3C	Z	22.834	3.75
48	MP3C	Mx	-.025	3.75
49	MP5A	X	-33.432	1.75
50	MP5A	Z	19.302	1.75
51	MP5A	Mx	.023	1.75
52	MP5A	X	-33.432	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	19.302	3.75
54	MP5A	Mx	.023	3.75
55	MP2A	X	-39.962	3.5
56	MP2A	Z	23.072	3.5
57	MP2A	Mx	-.027	3.5
58	MP3B	X	-39.962	3.5
59	MP3B	Z	23.072	3.5
60	MP3B	Mx	.027	3.5
61	MP3C	X	-53.188	3.5
62	MP3C	Z	30.708	3.5
63	MP3C	Mx	0	3.5
64	MP2B	X	-34.896	3.5
65	MP2B	Z	20.147	3.5
66	MP2B	Mx	.023	3.5
67	MP2C	X	-53.188	3.5
68	MP2C	Z	30.708	3.5
69	MP2C	Mx	0	3.5
70	MP4C	X	-53.188	3.5
71	MP4C	Z	30.708	3.5
72	MP4C	Mx	0	3.5
73	OVP	X	-108.124	.75
74	OVP	Z	62.425	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-161.764	.5
2	MP2B	Z	0	.5
3	MP2B	Mx	.111	.5
4	MP2B	X	-161.764	5
5	MP2B	Z	0	5
6	MP2B	Mx	.111	5
7	MP2C	X	-120.816	.5
8	MP2C	Z	0	.5
9	MP2C	Mx	-.088	.5
10	MP2C	X	-120.816	5
11	MP2C	Z	0	5
12	MP2C	Mx	-.088	5
13	MP2B	X	-161.764	.5
14	MP2B	Z	0	.5
15	MP2B	Mx	-.13	.5
16	MP2B	X	-161.764	5
17	MP2B	Z	0	5
18	MP2B	Mx	-.13	5
19	MP2C	X	-120.816	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	-.072	.5
22	MP2C	X	-120.816	5
23	MP2C	Z	0	5
24	MP2C	Mx	-.072	5
25	MP5C	X	-159.295	.5



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
26	MP5C	Z	0	.5
27	MP5C	Mx	-.143	.5
28	MP5C	X	-159.295	5
29	MP5C	Z	0	5
30	MP5C	Mx	-.143	5
31	MP5C	X	-159.295	.5
32	MP5C	Z	0	.5
33	MP5C	Mx	.088	.5
34	MP5C	X	-159.295	5
35	MP5C	Z	0	5
36	MP5C	Mx	.088	5
37	MP3B	X	-68.793	1.75
38	MP3B	Z	0	1.75
39	MP3B	Mx	.019	1.75
40	MP3B	X	-68.793	3.75
41	MP3B	Z	0	3.75
42	MP3B	Mx	.019	3.75
43	MP3C	X	-30.573	1.75
44	MP3C	Z	0	1.75
45	MP3C	Mx	-.02	1.75
46	MP3C	X	-30.573	3.75
47	MP3C	Z	0	3.75
48	MP3C	Mx	-.02	3.75
49	MP5A	X	-61.73	1.75
50	MP5A	Z	0	1.75
51	MP5A	Mx	.024	1.75
52	MP5A	X	-61.73	3.75
53	MP5A	Z	0	3.75
54	MP5A	Mx	.024	3.75
55	MP2A	X	-41.054	3.5
56	MP2A	Z	0	3.5
57	MP2A	Mx	-.027	3.5
58	MP3B	X	-56.326	3.5
59	MP3B	Z	0	3.5
60	MP3B	Mx	.019	3.5
61	MP3C	X	-56.326	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	.019	3.5
64	MP2B	X	-54.376	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	.018	3.5
67	MP2C	X	-54.376	3.5
68	MP2C	Z	0	3.5
69	MP2C	Mx	.018	3.5
70	MP4C	X	-54.376	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	.018	3.5
73	OVP	X	-132.716	.75
74	OVP	Z	0	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-133.934	.5
2	MP2B	Z	-77.327	.5
3	MP2B	Mx	.149	.5
4	MP2B	X	-133.934	5
5	MP2B	Z	-77.327	5
6	MP2B	Mx	.149	5
7	MP2C	X	-110.788	.5
8	MP2C	Z	-63.963	.5
9	MP2C	Mx	-.037	.5
10	MP2C	X	-110.788	5
11	MP2C	Z	-63.963	5
12	MP2C	Mx	-.037	5
13	MP2B	X	-133.934	.5
14	MP2B	Z	-77.327	.5
15	MP2B	Mx	-.062	.5
16	MP2B	X	-133.934	5
17	MP2B	Z	-77.327	5
18	MP2B	Mx	-.062	5
19	MP2C	X	-110.788	.5
20	MP2C	Z	-63.963	.5
21	MP2C	Mx	-.118	.5
22	MP2C	X	-110.788	5
23	MP2C	Z	-63.963	5
24	MP2C	Mx	-.118	5
25	MP5C	X	-122.361	.5
26	MP5C	Z	-70.645	.5
27	MP5C	Mx	-.142	.5
28	MP5C	X	-122.361	5
29	MP5C	Z	-70.645	5
30	MP5C	Mx	-.142	5
31	MP5C	X	-122.361	.5
32	MP5C	Z	-70.645	.5
33	MP5C	Mx	.008	.5
34	MP5C	X	-122.361	5
35	MP5C	Z	-70.645	5
36	MP5C	Mx	.008	5
37	MP3B	X	-39.549	1.75
38	MP3B	Z	-22.834	1.75
39	MP3B	Mx	.025	1.75
40	MP3B	X	-39.549	3.75
41	MP3B	Z	-22.834	3.75
42	MP3B	Mx	.025	3.75
43	MP3C	X	-33.432	1.75
44	MP3C	Z	-19.302	1.75
45	MP3C	Mx	-.023	1.75
46	MP3C	X	-33.432	3.75
47	MP3C	Z	-19.302	3.75
48	MP3C	Mx	-.023	3.75
49	MP5A	X	-66.532	1.75
50	MP5A	Z	-38.412	1.75
51	MP5A	Mx	.004	1.75
52	MP5A	X	-66.532	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-38.412	3.75
54	MP5A	Mx	.004	3.75
55	MP2A	X	-39.962	3.5
56	MP2A	Z	-23.072	3.5
57	MP2A	Mx	-.027	3.5
58	MP3B	X	-53.188	3.5
59	MP3B	Z	-30.708	3.5
60	MP3B	Mx	0	3.5
61	MP3C	X	-39.962	3.5
62	MP3C	Z	-23.072	3.5
63	MP3C	Mx	.027	3.5
64	MP2B	X	-53.188	3.5
65	MP2B	Z	-30.708	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	-34.896	3.5
68	MP2C	Z	-20.147	3.5
69	MP2C	Mx	.023	3.5
70	MP4C	X	-34.896	3.5
71	MP4C	Z	-20.147	3.5
72	MP4C	Mx	.023	3.5
73	OVP	X	-108.124	.75
74	OVP	Z	-62.425	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-67.09	.5
2	MP2B	Z	-116.203	.5
3	MP2B	Mx	.131	.5
4	MP2B	X	-67.09	5
5	MP2B	Z	-116.203	5
6	MP2B	Mx	.131	5
7	MP2C	X	-74.2	.5
8	MP2C	Z	-128.519	.5
9	MP2C	Mx	.034	.5
10	MP2C	X	-74.2	5
11	MP2C	Z	-128.519	5
12	MP2C	Mx	.034	5
13	MP2B	X	-67.09	.5
14	MP2B	Z	-116.203	.5
15	MP2B	Mx	.016	.5
16	MP2B	X	-67.09	5
17	MP2B	Z	-116.203	5
18	MP2B	Mx	.016	5
19	MP2C	X	-74.2	.5
20	MP2C	Z	-128.519	.5
21	MP2C	Mx	-.148	.5
22	MP2C	X	-74.2	5
23	MP2C	Z	-128.519	5
24	MP2C	Mx	-.148	5
25	MP5C	X	-61.643	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	-106.768	.5
27	MP5C	Mx	-.103	.5
28	MP5C	X	-61.643	5
29	MP5C	Z	-106.768	5
30	MP5C	Mx	-.103	5
31	MP5C	X	-61.643	.5
32	MP5C	Z	-106.768	.5
33	MP5C	Mx	-.055	.5
34	MP5C	X	-61.643	5
35	MP5C	Z	-106.768	5
36	MP5C	Mx	-.055	5
37	MP3B	X	-15.286	1.75
38	MP3B	Z	-26.477	1.75
39	MP3B	Mx	.02	1.75
40	MP3B	X	-15.286	3.75
41	MP3B	Z	-26.477	3.75
42	MP3B	Mx	.02	3.75
43	MP3C	X	-30.865	1.75
44	MP3C	Z	-53.46	1.75
45	MP3C	Mx	-.024	1.75
46	MP3C	X	-30.865	3.75
47	MP3C	Z	-53.46	3.75
48	MP3C	Mx	-.024	3.75
49	MP5A	X	-34.396	1.75
50	MP5A	Z	-59.576	1.75
51	MP5A	Mx	-.019	1.75
52	MP5A	X	-34.396	3.75
53	MP5A	Z	-59.576	3.75
54	MP5A	Mx	-.019	3.75
55	MP2A	X	-28.163	3.5
56	MP2A	Z	-48.78	3.5
57	MP2A	Mx	-.019	3.5
58	MP3B	X	-28.163	3.5
59	MP3B	Z	-48.78	3.5
60	MP3B	Mx	-.019	3.5
61	MP3C	X	-20.527	3.5
62	MP3C	Z	-35.554	3.5
63	MP3C	Mx	.027	3.5
64	MP2B	X	-27.188	3.5
65	MP2B	Z	-47.091	3.5
66	MP2B	Mx	-.018	3.5
67	MP2C	X	-16.627	3.5
68	MP2C	Z	-28.798	3.5
69	MP2C	Mx	.022	3.5
70	MP4C	X	-16.627	3.5
71	MP4C	Z	-28.798	3.5
72	MP4C	Mx	.022	3.5
73	OVP	X	-54.56	.75
74	OVP	Z	-94.5	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	MP2B	X	0	.5
2	MP2B	Z	-25.413	.5
3	MP2B	Mx	.019	.5
4	MP2B	X	0	5
5	MP2B	Z	-25.413	5
6	MP2B	Mx	.019	5
7	MP2C	X	0	.5
8	MP2C	Z	-33.431	.5
9	MP2C	Mx	.023	.5
10	MP2C	X	0	5
11	MP2C	Z	-33.431	5
12	MP2C	Mx	.023	5
13	MP2B	X	0	.5
14	MP2B	Z	-25.413	.5
15	MP2B	Mx	.015	.5
16	MP2B	X	0	5
17	MP2B	Z	-25.413	5
18	MP2B	Mx	.015	5
19	MP2C	X	0	.5
20	MP2C	Z	-33.431	.5
21	MP2C	Mx	-.027	.5
22	MP2C	X	0	5
23	MP2C	Z	-33.431	5
24	MP2C	Mx	-.027	5
25	MP5C	X	0	.5
26	MP5C	Z	-25.897	.5
27	MP5C	Mx	-.012	.5
28	MP5C	X	0	5
29	MP5C	Z	-25.897	5
30	MP5C	Mx	-.012	5
31	MP5C	X	0	.5
32	MP5C	Z	-25.897	.5
33	MP5C	Mx	-.022	.5
34	MP5C	X	0	5
35	MP5C	Z	-25.897	5
36	MP5C	Mx	-.022	5
37	MP3B	X	0	1.75
38	MP3B	Z	-8.755	1.75
39	MP3B	Mx	.005	1.75
40	MP3B	X	0	3.75
41	MP3B	Z	-8.755	3.75
42	MP3B	Mx	.005	3.75
43	MP3C	X	0	1.75
44	MP3C	Z	-16.466	1.75
45	MP3C	Mx	-.000957	1.75
46	MP3C	X	0	3.75
47	MP3C	Z	-16.466	3.75
48	MP3C	Mx	-.000957	3.75
49	MP5A	X	0	1.75
50	MP5A	Z	-10.18	1.75
51	MP5A	Mx	-.006	1.75
52	MP5A	X	0	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-10.18	3.75
54	MP5A	Mx	-.006	3.75
55	MP2A	X	0	3.5
56	MP2A	Z	-13.961	3.5
57	MP2A	Mx	0	3.5
58	MP3B	X	0	3.5
59	MP3B	Z	-10.782	3.5
60	MP3B	Mx	-.006	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	-10.782	3.5
63	MP3C	Mx	.006	3.5
64	MP2B	X	0	3.5
65	MP2B	Z	-9.574	3.5
66	MP2B	Mx	-.006	3.5
67	MP2C	X	0	3.5
68	MP2C	Z	-9.574	3.5
69	MP2C	Mx	.006	3.5
70	MP4C	X	0	3.5
71	MP4C	Z	-9.574	3.5
72	MP4C	Mx	.006	3.5
73	OVP	X	0	.75
74	OVP	Z	-22.307	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	13.403	.5
2	MP2B	Z	-23.214	.5
3	MP2B	Mx	.008	.5
4	MP2B	X	13.403	5
5	MP2B	Z	-23.214	5
6	MP2B	Mx	.008	5
7	MP2C	X	16.02	.5
8	MP2C	Z	-27.747	.5
9	MP2C	Mx	.031	.5
10	MP2C	X	16.02	5
11	MP2C	Z	-27.747	5
12	MP2C	Mx	.031	5
13	MP2B	X	13.403	.5
14	MP2B	Z	-23.214	.5
15	MP2B	Mx	.025	.5
16	MP2B	X	13.403	5
17	MP2B	Z	-23.214	5
18	MP2B	Mx	.025	5
19	MP2C	X	16.02	.5
20	MP2C	Z	-27.747	.5
21	MP2C	Mx	-.013	.5
22	MP2C	X	16.02	5
23	MP2C	Z	-27.747	5
24	MP2C	Mx	-.013	5
25	MP5C	X	14.711	.5



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

	Member Label	Direction	Magnitude [lb,k-ft]	Location [ft, %]
26	MP5C	Z	-25.48	.5
27	MP5C	Mx	.002	.5
28	MP5C	X	14.711	5
29	MP5C	Z	-25.48	5
30	MP5C	Mx	.002	5
31	MP5C	X	14.711	.5
32	MP5C	Z	-25.48	.5
33	MP5C	Mx	-.029	.5
34	MP5C	X	14.711	5
35	MP5C	Z	-25.48	5
36	MP5C	Mx	-.029	5
37	MP3B	X	6.71	1.75
38	MP3B	Z	-11.623	1.75
39	MP3B	Mx	.005	1.75
40	MP3B	X	6.71	3.75
41	MP3B	Z	-11.623	3.75
42	MP3B	Mx	.005	3.75
43	MP3C	X	7.423	1.75
44	MP3C	Z	-12.857	1.75
45	MP3C	Mx	.004	1.75
46	MP3C	X	7.423	3.75
47	MP3C	Z	-12.857	3.75
48	MP3C	Mx	.004	3.75
49	MP5A	X	3.567	1.75
50	MP5A	Z	-6.178	1.75
51	MP5A	Mx	-.005	1.75
52	MP5A	X	3.567	3.75
53	MP5A	Z	-6.178	3.75
54	MP5A	Mx	-.005	3.75
55	MP2A	X	6.451	3.5
56	MP2A	Z	-11.173	3.5
57	MP2A	Mx	.004	3.5
58	MP3B	X	4.861	3.5
59	MP3B	Z	-8.42	3.5
60	MP3B	Mx	-.006	3.5
61	MP3C	X	6.451	3.5
62	MP3C	Z	-11.173	3.5
63	MP3C	Mx	.004	3.5
64	MP2B	X	4.056	3.5
65	MP2B	Z	-7.025	3.5
66	MP2B	Mx	-.005	3.5
67	MP2C	X	6.249	3.5
68	MP2C	Z	-10.824	3.5
69	MP2C	Mx	.004	3.5
70	MP4C	X	6.249	3.5
71	MP4C	Z	-10.824	3.5
72	MP4C	Mx	.004	3.5
73	OVP	X	11.929	.75
74	OVP	Z	-20.661	.75
75	OVP	Mx	0	.75



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	26.686	.5
2	MP2B	Z	-15.407	.5
3	MP2B	Mx	-.007	.5
4	MP2B	X	26.686	5
5	MP2B	Z	-15.407	5
6	MP2B	Mx	-.007	5
7	MP2C	X	24.275	.5
8	MP2C	Z	-14.015	.5
9	MP2C	Mx	.027	.5
10	MP2C	X	24.275	5
11	MP2C	Z	-14.015	5
12	MP2C	Mx	.027	5
13	MP2B	X	26.686	.5
14	MP2B	Z	-15.407	.5
15	MP2B	Mx	.031	.5
16	MP2B	X	26.686	5
17	MP2B	Z	-15.407	5
18	MP2B	Mx	.031	5
19	MP2C	X	24.275	.5
20	MP2C	Z	-14.015	.5
21	MP2C	Mx	.003	.5
22	MP2C	X	24.275	5
23	MP2C	Z	-14.015	5
24	MP2C	Mx	.003	5
25	MP5C	X	28.534	.5
26	MP5C	Z	-16.474	.5
27	MP5C	Mx	.018	.5
28	MP5C	X	28.534	5
29	MP5C	Z	-16.474	5
30	MP5C	Mx	.018	5
31	MP5C	X	28.534	.5
32	MP5C	Z	-16.474	.5
33	MP5C	Mx	-.03	.5
34	MP5C	X	28.534	5
35	MP5C	Z	-16.474	5
36	MP5C	Mx	-.03	5
37	MP3B	X	14.26	1.75
38	MP3B	Z	-8.233	1.75
39	MP3B	Mx	.000957	1.75
40	MP3B	X	14.26	3.75
41	MP3B	Z	-8.233	3.75
42	MP3B	Mx	.000957	3.75
43	MP3C	X	8.816	1.75
44	MP3C	Z	-5.09	1.75
45	MP3C	Mx	.006	1.75
46	MP3C	X	8.816	3.75
47	MP3C	Z	-5.09	3.75
48	MP3C	Mx	.006	3.75
49	MP5A	X	7.582	1.75
50	MP5A	Z	-4.377	1.75
51	MP5A	Mx	-.005	1.75
52	MP5A	X	7.582	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-4.377	3.75
54	MP5A	Mx	-.005	3.75
55	MP2A	X	9.337	3.5
56	MP2A	Z	-5.391	3.5
57	MP2A	Mx	.006	3.5
58	MP3B	X	9.337	3.5
59	MP3B	Z	-5.391	3.5
60	MP3B	Mx	-.006	3.5
61	MP3C	X	12.091	3.5
62	MP3C	Z	-6.98	3.5
63	MP3C	Mx	0	3.5
64	MP2B	X	8.291	3.5
65	MP2B	Z	-4.787	3.5
66	MP2B	Mx	-.006	3.5
67	MP2C	X	12.091	3.5
68	MP2C	Z	-6.98	3.5
69	MP2C	Mx	0	3.5
70	MP4C	X	12.091	3.5
71	MP4C	Z	-6.98	3.5
72	MP4C	Mx	0	3.5
73	OVP	X	23.347	.75
74	OVP	Z	-13.479	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	33.431	.5
2	MP2B	Z	0	.5
3	MP2B	Mx	-.023	.5
4	MP2B	X	33.431	5
5	MP2B	Z	0	5
6	MP2B	Mx	-.023	5
7	MP2C	X	25.413	.5
8	MP2C	Z	0	.5
9	MP2C	Mx	.019	.5
10	MP2C	X	25.413	5
11	MP2C	Z	0	5
12	MP2C	Mx	.019	5
13	MP2B	X	33.431	.5
14	MP2B	Z	0	.5
15	MP2B	Mx	.027	.5
16	MP2B	X	33.431	5
17	MP2B	Z	0	5
18	MP2B	Mx	.027	5
19	MP2C	X	25.413	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	.015	.5
22	MP2C	X	25.413	5
23	MP2C	Z	0	5
24	MP2C	Mx	.015	5
25	MP5C	X	32.948	.5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
26	MP5C	Z	0	.5
27	MP5C	Mx	.03	.5
28	MP5C	X	32.948	5
29	MP5C	Z	0	5
30	MP5C	Mx	.03	5
31	MP5C	X	32.948	.5
32	MP5C	Z	0	.5
33	MP5C	Mx	-.018	.5
34	MP5C	X	32.948	5
35	MP5C	Z	0	5
36	MP5C	Mx	-.018	5
37	MP3B	X	14.846	1.75
38	MP3B	Z	0	1.75
39	MP3B	Mx	-.004	1.75
40	MP3B	X	14.846	3.75
41	MP3B	Z	0	3.75
42	MP3B	Mx	-.004	3.75
43	MP3C	X	7.134	1.75
44	MP3C	Z	0	1.75
45	MP3C	Mx	.005	1.75
46	MP3C	X	7.134	3.75
47	MP3C	Z	0	3.75
48	MP3C	Mx	.005	3.75
49	MP5A	X	13.421	1.75
50	MP5A	Z	0	1.75
51	MP5A	Mx	-.005	1.75
52	MP5A	X	13.421	3.75
53	MP5A	Z	0	3.75
54	MP5A	Mx	-.005	3.75
55	MP2A	X	9.722	3.5
56	MP2A	Z	0	3.5
57	MP2A	Mx	.006	3.5
58	MP3B	X	12.901	3.5
59	MP3B	Z	0	3.5
60	MP3B	Mx	-.004	3.5
61	MP3C	X	12.901	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	-.004	3.5
64	MP2B	X	12.499	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	-.004	3.5
67	MP2C	X	12.499	3.5
68	MP2C	Z	0	3.5
69	MP2C	Mx	-.004	3.5
70	MP4C	X	12.499	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	-.004	3.5
73	OVP	X	28.509	.75
74	OVP	Z	0	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	27.747	.5
2	MP2B	Z	16.02	.5
3	MP2B	Mx	-.031	.5
4	MP2B	X	27.747	5
5	MP2B	Z	16.02	5
6	MP2B	Mx	-.031	5
7	MP2C	X	23.214	.5
8	MP2C	Z	13.403	.5
9	MP2C	Mx	.008	.5
10	MP2C	X	23.214	5
11	MP2C	Z	13.403	5
12	MP2C	Mx	.008	5
13	MP2B	X	27.747	.5
14	MP2B	Z	16.02	.5
15	MP2B	Mx	.013	.5
16	MP2B	X	27.747	5
17	MP2B	Z	16.02	5
18	MP2B	Mx	.013	5
19	MP2C	X	23.214	.5
20	MP2C	Z	13.403	.5
21	MP2C	Mx	.025	.5
22	MP2C	X	23.214	5
23	MP2C	Z	13.403	5
24	MP2C	Mx	.025	5
25	MP5C	X	25.48	.5
26	MP5C	Z	14.711	.5
27	MP5C	Mx	.029	.5
28	MP5C	X	25.48	5
29	MP5C	Z	14.711	5
30	MP5C	Mx	.029	5
31	MP5C	X	25.48	.5
32	MP5C	Z	14.711	.5
33	MP5C	Mx	-.002	.5
34	MP5C	X	25.48	5
35	MP5C	Z	14.711	5
36	MP5C	Mx	-.002	5
37	MP3B	X	8.816	1.75
38	MP3B	Z	5.09	1.75
39	MP3B	Mx	-.006	1.75
40	MP3B	X	8.816	3.75
41	MP3B	Z	5.09	3.75
42	MP3B	Mx	-.006	3.75
43	MP3C	X	7.582	1.75
44	MP3C	Z	4.377	1.75
45	MP3C	Mx	.005	1.75
46	MP3C	X	7.582	3.75
47	MP3C	Z	4.377	3.75
48	MP3C	Mx	.005	3.75
49	MP5A	X	14.26	1.75
50	MP5A	Z	8.233	1.75
51	MP5A	Mx	-.000957	1.75
52	MP5A	X	14.26	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	8.233	3.75
54	MP5A	Mx	-.000957	3.75
55	MP2A	X	9.337	3.5
56	MP2A	Z	5.391	3.5
57	MP2A	Mx	.006	3.5
58	MP3B	X	12.091	3.5
59	MP3B	Z	6.98	3.5
60	MP3B	Mx	0	3.5
61	MP3C	X	9.337	3.5
62	MP3C	Z	5.391	3.5
63	MP3C	Mx	-.006	3.5
64	MP2B	X	12.091	3.5
65	MP2B	Z	6.98	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	8.291	3.5
68	MP2C	Z	4.787	3.5
69	MP2C	Mx	-.006	3.5
70	MP4C	X	8.291	3.5
71	MP4C	Z	4.787	3.5
72	MP4C	Mx	-.006	3.5
73	OVP	X	23.347	.75
74	OVP	Z	13.479	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	14.015	.5
2	MP2B	Z	24.275	.5
3	MP2B	Mx	-.027	.5
4	MP2B	X	14.015	5
5	MP2B	Z	24.275	5
6	MP2B	Mx	-.027	5
7	MP2C	X	15.407	.5
8	MP2C	Z	26.686	.5
9	MP2C	Mx	-.007	.5
10	MP2C	X	15.407	5
11	MP2C	Z	26.686	5
12	MP2C	Mx	-.007	5
13	MP2B	X	14.015	.5
14	MP2B	Z	24.275	.5
15	MP2B	Mx	-.003	.5
16	MP2B	X	14.015	5
17	MP2B	Z	24.275	5
18	MP2B	Mx	-.003	5
19	MP2C	X	15.407	.5
20	MP2C	Z	26.686	.5
21	MP2C	Mx	.031	.5
22	MP2C	X	15.407	5
23	MP2C	Z	26.686	5
24	MP2C	Mx	.031	5
25	MP5C	X	12.948	.5



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	22.427	.5
27	MP5C	Mx	.022	.5
28	MP5C	X	12.948	5
29	MP5C	Z	22.427	5
30	MP5C	Mx	.022	5
31	MP5C	X	12.948	.5
32	MP5C	Z	22.427	.5
33	MP5C	Mx	.012	.5
34	MP5C	X	12.948	5
35	MP5C	Z	22.427	5
36	MP5C	Mx	.012	5
37	MP3B	X	3.567	1.75
38	MP3B	Z	6.178	1.75
39	MP3B	Mx	-.005	1.75
40	MP3B	X	3.567	3.75
41	MP3B	Z	6.178	3.75
42	MP3B	Mx	-.005	3.75
43	MP3C	X	6.71	1.75
44	MP3C	Z	11.623	1.75
45	MP3C	Mx	.005	1.75
46	MP3C	X	6.71	3.75
47	MP3C	Z	11.623	3.75
48	MP3C	Mx	.005	3.75
49	MP5A	X	7.423	1.75
50	MP5A	Z	12.857	1.75
51	MP5A	Mx	.004	1.75
52	MP5A	X	7.423	3.75
53	MP5A	Z	12.857	3.75
54	MP5A	Mx	.004	3.75
55	MP2A	X	6.451	3.5
56	MP2A	Z	11.173	3.5
57	MP2A	Mx	.004	3.5
58	MP3B	X	6.451	3.5
59	MP3B	Z	11.173	3.5
60	MP3B	Mx	.004	3.5
61	MP3C	X	4.861	3.5
62	MP3C	Z	8.42	3.5
63	MP3C	Mx	-.006	3.5
64	MP2B	X	6.249	3.5
65	MP2B	Z	10.824	3.5
66	MP2B	Mx	.004	3.5
67	MP2C	X	4.056	3.5
68	MP2C	Z	7.025	3.5
69	MP2C	Mx	-.005	3.5
70	MP4C	X	4.056	3.5
71	MP4C	Z	7.025	3.5
72	MP4C	Mx	-.005	3.5
73	OVP	X	11.929	.75
74	OVP	Z	20.661	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	MP2B	X	0	.5
2	MP2B	Z	25.413	.5
3	MP2B	Mx	-.019	.5
4	MP2B	X	0	5
5	MP2B	Z	25.413	5
6	MP2B	Mx	-.019	5
7	MP2C	X	0	.5
8	MP2C	Z	33.431	.5
9	MP2C	Mx	-.023	.5
10	MP2C	X	0	5
11	MP2C	Z	33.431	5
12	MP2C	Mx	-.023	5
13	MP2B	X	0	.5
14	MP2B	Z	25.413	.5
15	MP2B	Mx	-.015	.5
16	MP2B	X	0	5
17	MP2B	Z	25.413	5
18	MP2B	Mx	-.015	5
19	MP2C	X	0	.5
20	MP2C	Z	33.431	.5
21	MP2C	Mx	.027	.5
22	MP2C	X	0	5
23	MP2C	Z	33.431	5
24	MP2C	Mx	.027	5
25	MP5C	X	0	.5
26	MP5C	Z	25.897	.5
27	MP5C	Mx	.012	.5
28	MP5C	X	0	5
29	MP5C	Z	25.897	5
30	MP5C	Mx	.012	5
31	MP5C	X	0	.5
32	MP5C	Z	25.897	.5
33	MP5C	Mx	.022	.5
34	MP5C	X	0	5
35	MP5C	Z	25.897	5
36	MP5C	Mx	.022	5
37	MP3B	X	0	1.75
38	MP3B	Z	8.755	1.75
39	MP3B	Mx	-.005	1.75
40	MP3B	X	0	3.75
41	MP3B	Z	8.755	3.75
42	MP3B	Mx	-.005	3.75
43	MP3C	X	0	1.75
44	MP3C	Z	16.466	1.75
45	MP3C	Mx	.000957	1.75
46	MP3C	X	0	3.75
47	MP3C	Z	16.466	3.75
48	MP3C	Mx	.000957	3.75
49	MP5A	X	0	1.75
50	MP5A	Z	10.18	1.75
51	MP5A	Mx	.006	1.75
52	MP5A	X	0	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	10.18	3.75
54	MP5A	Mx	.006	3.75
55	MP2A	X	0	3.5
56	MP2A	Z	13.961	3.5
57	MP2A	Mx	0	3.5
58	MP3B	X	0	3.5
59	MP3B	Z	10.782	3.5
60	MP3B	Mx	.006	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	10.782	3.5
63	MP3C	Mx	-.006	3.5
64	MP2B	X	0	3.5
65	MP2B	Z	9.574	3.5
66	MP2B	Mx	.006	3.5
67	MP2C	X	0	3.5
68	MP2C	Z	9.574	3.5
69	MP2C	Mx	-.006	3.5
70	MP4C	X	0	3.5
71	MP4C	Z	9.574	3.5
72	MP4C	Mx	-.006	3.5
73	OVP	X	0	.75
74	OVP	Z	22.307	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-13.403	.5
2	MP2B	Z	23.214	.5
3	MP2B	Mx	-.008	.5
4	MP2B	X	-13.403	5
5	MP2B	Z	23.214	5
6	MP2B	Mx	-.008	5
7	MP2C	X	-16.02	.5
8	MP2C	Z	27.747	.5
9	MP2C	Mx	-.031	.5
10	MP2C	X	-16.02	5
11	MP2C	Z	27.747	5
12	MP2C	Mx	-.031	5
13	MP2B	X	-13.403	.5
14	MP2B	Z	23.214	.5
15	MP2B	Mx	-.025	.5
16	MP2B	X	-13.403	5
17	MP2B	Z	23.214	5
18	MP2B	Mx	-.025	5
19	MP2C	X	-16.02	.5
20	MP2C	Z	27.747	.5
21	MP2C	Mx	.013	.5
22	MP2C	X	-16.02	5
23	MP2C	Z	27.747	5
24	MP2C	Mx	.013	5
25	MP5C	X	-14.711	.5



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
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Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	25.48	.5
27	MP5C	Mx	-.002	.5
28	MP5C	X	-14.711	5
29	MP5C	Z	25.48	5
30	MP5C	Mx	-.002	5
31	MP5C	X	-14.711	.5
32	MP5C	Z	25.48	.5
33	MP5C	Mx	.029	.5
34	MP5C	X	-14.711	5
35	MP5C	Z	25.48	5
36	MP5C	Mx	.029	5
37	MP3B	X	-6.71	1.75
38	MP3B	Z	11.623	1.75
39	MP3B	Mx	-.005	1.75
40	MP3B	X	-6.71	3.75
41	MP3B	Z	11.623	3.75
42	MP3B	Mx	-.005	3.75
43	MP3C	X	-7.423	1.75
44	MP3C	Z	12.857	1.75
45	MP3C	Mx	-.004	1.75
46	MP3C	X	-7.423	3.75
47	MP3C	Z	12.857	3.75
48	MP3C	Mx	-.004	3.75
49	MP5A	X	-3.567	1.75
50	MP5A	Z	6.178	1.75
51	MP5A	Mx	.005	1.75
52	MP5A	X	-3.567	3.75
53	MP5A	Z	6.178	3.75
54	MP5A	Mx	.005	3.75
55	MP2A	X	-6.451	3.5
56	MP2A	Z	11.173	3.5
57	MP2A	Mx	-.004	3.5
58	MP3B	X	-4.861	3.5
59	MP3B	Z	8.42	3.5
60	MP3B	Mx	.006	3.5
61	MP3C	X	-6.451	3.5
62	MP3C	Z	11.173	3.5
63	MP3C	Mx	-.004	3.5
64	MP2B	X	-4.056	3.5
65	MP2B	Z	7.025	3.5
66	MP2B	Mx	.005	3.5
67	MP2C	X	-6.249	3.5
68	MP2C	Z	10.824	3.5
69	MP2C	Mx	-.004	3.5
70	MP4C	X	-6.249	3.5
71	MP4C	Z	10.824	3.5
72	MP4C	Mx	-.004	3.5
73	OVP	X	-11.929	.75
74	OVP	Z	20.661	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-26.686	.5
2	MP2B	Z	15.407	.5
3	MP2B	Mx	.007	.5
4	MP2B	X	-26.686	5
5	MP2B	Z	15.407	5
6	MP2B	Mx	.007	5
7	MP2C	X	-24.275	.5
8	MP2C	Z	14.015	.5
9	MP2C	Mx	-.027	.5
10	MP2C	X	-24.275	5
11	MP2C	Z	14.015	5
12	MP2C	Mx	-.027	5
13	MP2B	X	-26.686	.5
14	MP2B	Z	15.407	.5
15	MP2B	Mx	-.031	.5
16	MP2B	X	-26.686	5
17	MP2B	Z	15.407	5
18	MP2B	Mx	-.031	5
19	MP2C	X	-24.275	.5
20	MP2C	Z	14.015	.5
21	MP2C	Mx	-.003	.5
22	MP2C	X	-24.275	5
23	MP2C	Z	14.015	5
24	MP2C	Mx	-.003	5
25	MP5C	X	-28.534	.5
26	MP5C	Z	16.474	.5
27	MP5C	Mx	-.018	.5
28	MP5C	X	-28.534	5
29	MP5C	Z	16.474	5
30	MP5C	Mx	-.018	5
31	MP5C	X	-28.534	.5
32	MP5C	Z	16.474	.5
33	MP5C	Mx	.03	.5
34	MP5C	X	-28.534	5
35	MP5C	Z	16.474	5
36	MP5C	Mx	.03	5
37	MP3B	X	-14.26	1.75
38	MP3B	Z	8.233	1.75
39	MP3B	Mx	-.000957	1.75
40	MP3B	X	-14.26	3.75
41	MP3B	Z	8.233	3.75
42	MP3B	Mx	-.000957	3.75
43	MP3C	X	-8.816	1.75
44	MP3C	Z	5.09	1.75
45	MP3C	Mx	-.006	1.75
46	MP3C	X	-8.816	3.75
47	MP3C	Z	5.09	3.75
48	MP3C	Mx	-.006	3.75
49	MP5A	X	-7.582	1.75
50	MP5A	Z	4.377	1.75
51	MP5A	Mx	.005	1.75
52	MP5A	X	-7.582	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	4.377	3.75
54	MP5A	Mx	.005	3.75
55	MP2A	X	-9.337	3.5
56	MP2A	Z	5.391	3.5
57	MP2A	Mx	-.006	3.5
58	MP3B	X	-9.337	3.5
59	MP3B	Z	5.391	3.5
60	MP3B	Mx	.006	3.5
61	MP3C	X	-12.091	3.5
62	MP3C	Z	6.98	3.5
63	MP3C	Mx	0	3.5
64	MP2B	X	-8.291	3.5
65	MP2B	Z	4.787	3.5
66	MP2B	Mx	.006	3.5
67	MP2C	X	-12.091	3.5
68	MP2C	Z	6.98	3.5
69	MP2C	Mx	0	3.5
70	MP4C	X	-12.091	3.5
71	MP4C	Z	6.98	3.5
72	MP4C	Mx	0	3.5
73	OVP	X	-23.347	.75
74	OVP	Z	13.479	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-33.431	.5
2	MP2B	Z	0	.5
3	MP2B	Mx	.023	.5
4	MP2B	X	-33.431	5
5	MP2B	Z	0	5
6	MP2B	Mx	.023	5
7	MP2C	X	-25.413	.5
8	MP2C	Z	0	.5
9	MP2C	Mx	-.019	.5
10	MP2C	X	-25.413	5
11	MP2C	Z	0	5
12	MP2C	Mx	-.019	5
13	MP2B	X	-33.431	.5
14	MP2B	Z	0	.5
15	MP2B	Mx	-.027	.5
16	MP2B	X	-33.431	5
17	MP2B	Z	0	5
18	MP2B	Mx	-.027	5
19	MP2C	X	-25.413	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	-.015	.5
22	MP2C	X	-25.413	5
23	MP2C	Z	0	5
24	MP2C	Mx	-.015	5
25	MP5C	X	-32.948	.5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
26	MP5C	Z	0	.5
27	MP5C	Mx	-.03	.5
28	MP5C	X	-32.948	5
29	MP5C	Z	0	5
30	MP5C	Mx	-.03	5
31	MP5C	X	-32.948	.5
32	MP5C	Z	0	.5
33	MP5C	Mx	.018	.5
34	MP5C	X	-32.948	5
35	MP5C	Z	0	5
36	MP5C	Mx	.018	5
37	MP3B	X	-14.846	1.75
38	MP3B	Z	0	1.75
39	MP3B	Mx	.004	1.75
40	MP3B	X	-14.846	3.75
41	MP3B	Z	0	3.75
42	MP3B	Mx	.004	3.75
43	MP3C	X	-7.134	1.75
44	MP3C	Z	0	1.75
45	MP3C	Mx	-.005	1.75
46	MP3C	X	-7.134	3.75
47	MP3C	Z	0	3.75
48	MP3C	Mx	-.005	3.75
49	MP5A	X	-13.421	1.75
50	MP5A	Z	0	1.75
51	MP5A	Mx	.005	1.75
52	MP5A	X	-13.421	3.75
53	MP5A	Z	0	3.75
54	MP5A	Mx	.005	3.75
55	MP2A	X	-9.722	3.5
56	MP2A	Z	0	3.5
57	MP2A	Mx	-.006	3.5
58	MP3B	X	-12.901	3.5
59	MP3B	Z	0	3.5
60	MP3B	Mx	.004	3.5
61	MP3C	X	-12.901	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	.004	3.5
64	MP2B	X	-12.499	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	.004	3.5
67	MP2C	X	-12.499	3.5
68	MP2C	Z	0	3.5
69	MP2C	Mx	.004	3.5
70	MP4C	X	-12.499	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	.004	3.5
73	OVP	X	-28.509	.75
74	OVP	Z	0	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-27.747	.5
2	MP2B	Z	-16.02	.5
3	MP2B	Mx	.031	.5
4	MP2B	X	-27.747	5
5	MP2B	Z	-16.02	5
6	MP2B	Mx	.031	5
7	MP2C	X	-23.214	.5
8	MP2C	Z	-13.403	.5
9	MP2C	Mx	-.008	.5
10	MP2C	X	-23.214	5
11	MP2C	Z	-13.403	5
12	MP2C	Mx	-.008	5
13	MP2B	X	-27.747	.5
14	MP2B	Z	-16.02	.5
15	MP2B	Mx	-.013	.5
16	MP2B	X	-27.747	5
17	MP2B	Z	-16.02	5
18	MP2B	Mx	-.013	5
19	MP2C	X	-23.214	.5
20	MP2C	Z	-13.403	.5
21	MP2C	Mx	-.025	.5
22	MP2C	X	-23.214	5
23	MP2C	Z	-13.403	5
24	MP2C	Mx	-.025	5
25	MP5C	X	-25.48	.5
26	MP5C	Z	-14.711	.5
27	MP5C	Mx	-.029	.5
28	MP5C	X	-25.48	5
29	MP5C	Z	-14.711	5
30	MP5C	Mx	-.029	5
31	MP5C	X	-25.48	.5
32	MP5C	Z	-14.711	.5
33	MP5C	Mx	.002	.5
34	MP5C	X	-25.48	5
35	MP5C	Z	-14.711	5
36	MP5C	Mx	.002	5
37	MP3B	X	-8.816	1.75
38	MP3B	Z	-5.09	1.75
39	MP3B	Mx	.006	1.75
40	MP3B	X	-8.816	3.75
41	MP3B	Z	-5.09	3.75
42	MP3B	Mx	.006	3.75
43	MP3C	X	-7.582	1.75
44	MP3C	Z	-4.377	1.75
45	MP3C	Mx	-.005	1.75
46	MP3C	X	-7.582	3.75
47	MP3C	Z	-4.377	3.75
48	MP3C	Mx	-.005	3.75
49	MP5A	X	-14.26	1.75
50	MP5A	Z	-8.233	1.75
51	MP5A	Mx	.000957	1.75
52	MP5A	X	-14.26	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-8.233	3.75
54	MP5A	Mx	.000957	3.75
55	MP2A	X	-9.337	3.5
56	MP2A	Z	-5.391	3.5
57	MP2A	Mx	-.006	3.5
58	MP3B	X	-12.091	3.5
59	MP3B	Z	-6.98	3.5
60	MP3B	Mx	0	3.5
61	MP3C	X	-9.337	3.5
62	MP3C	Z	-5.391	3.5
63	MP3C	Mx	.006	3.5
64	MP2B	X	-12.091	3.5
65	MP2B	Z	-6.98	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	-8.291	3.5
68	MP2C	Z	-4.787	3.5
69	MP2C	Mx	.006	3.5
70	MP4C	X	-8.291	3.5
71	MP4C	Z	-4.787	3.5
72	MP4C	Mx	.006	3.5
73	OVP	X	-23.347	.75
74	OVP	Z	-13.479	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-14.015	.5
2	MP2B	Z	-24.275	.5
3	MP2B	Mx	.027	.5
4	MP2B	X	-14.015	5
5	MP2B	Z	-24.275	5
6	MP2B	Mx	.027	5
7	MP2C	X	-15.407	.5
8	MP2C	Z	-26.686	.5
9	MP2C	Mx	.007	.5
10	MP2C	X	-15.407	5
11	MP2C	Z	-26.686	5
12	MP2C	Mx	.007	5
13	MP2B	X	-14.015	.5
14	MP2B	Z	-24.275	.5
15	MP2B	Mx	.003	.5
16	MP2B	X	-14.015	5
17	MP2B	Z	-24.275	5
18	MP2B	Mx	.003	5
19	MP2C	X	-15.407	.5
20	MP2C	Z	-26.686	.5
21	MP2C	Mx	-.031	.5
22	MP2C	X	-15.407	5
23	MP2C	Z	-26.686	5
24	MP2C	Mx	-.031	5
25	MP5C	X	-12.948	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	-22.427	.5
27	MP5C	Mx	-.022	.5
28	MP5C	X	-12.948	5
29	MP5C	Z	-22.427	5
30	MP5C	Mx	-.022	5
31	MP5C	X	-12.948	.5
32	MP5C	Z	-22.427	.5
33	MP5C	Mx	-.012	.5
34	MP5C	X	-12.948	5
35	MP5C	Z	-22.427	5
36	MP5C	Mx	-.012	5
37	MP3B	X	-3.567	1.75
38	MP3B	Z	-6.178	1.75
39	MP3B	Mx	.005	1.75
40	MP3B	X	-3.567	3.75
41	MP3B	Z	-6.178	3.75
42	MP3B	Mx	.005	3.75
43	MP3C	X	-6.71	1.75
44	MP3C	Z	-11.623	1.75
45	MP3C	Mx	-.005	1.75
46	MP3C	X	-6.71	3.75
47	MP3C	Z	-11.623	3.75
48	MP3C	Mx	-.005	3.75
49	MP5A	X	-7.423	1.75
50	MP5A	Z	-12.857	1.75
51	MP5A	Mx	-.004	1.75
52	MP5A	X	-7.423	3.75
53	MP5A	Z	-12.857	3.75
54	MP5A	Mx	-.004	3.75
55	MP2A	X	-6.451	3.5
56	MP2A	Z	-11.173	3.5
57	MP2A	Mx	-.004	3.5
58	MP3B	X	-6.451	3.5
59	MP3B	Z	-11.173	3.5
60	MP3B	Mx	-.004	3.5
61	MP3C	X	-4.861	3.5
62	MP3C	Z	-8.42	3.5
63	MP3C	Mx	.006	3.5
64	MP2B	X	-6.249	3.5
65	MP2B	Z	-10.824	3.5
66	MP2B	Mx	-.004	3.5
67	MP2C	X	-4.056	3.5
68	MP2C	Z	-7.025	3.5
69	MP2C	Mx	.005	3.5
70	MP4C	X	-4.056	3.5
71	MP4C	Z	-7.025	3.5
72	MP4C	Mx	.005	3.5
73	OVP	X	-11.929	.75
74	OVP	Z	-20.661	.75
75	OVP	Mx	0	.75



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	MP2B	X	0	.5
2	MP2B	Z	-8.222	.5
3	MP2B	Mx	.006	.5
4	MP2B	X	0	5
5	MP2B	Z	-8.222	5
6	MP2B	Mx	.006	5
7	MP2C	X	0	.5
8	MP2C	Z	-11.009	.5
9	MP2C	Mx	.008	.5
10	MP2C	X	0	5
11	MP2C	Z	-11.009	5
12	MP2C	Mx	.008	5
13	MP2B	X	0	.5
14	MP2B	Z	-8.222	.5
15	MP2B	Mx	.005	.5
16	MP2B	X	0	5
17	MP2B	Z	-8.222	5
18	MP2B	Mx	.005	5
19	MP2C	X	0	.5
20	MP2C	Z	-11.009	.5
21	MP2C	Mx	-.009	.5
22	MP2C	X	0	5
23	MP2C	Z	-11.009	5
24	MP2C	Mx	-.009	5
25	MP5C	X	0	.5
26	MP5C	Z	-8.39	.5
27	MP5C	Mx	-.004	.5
28	MP5C	X	0	5
29	MP5C	Z	-8.39	5
30	MP5C	Mx	-.004	5
31	MP5C	X	0	.5
32	MP5C	Z	-8.39	.5
33	MP5C	Mx	-.007	.5
34	MP5C	X	0	5
35	MP5C	Z	-8.39	5
36	MP5C	Mx	-.007	5
37	MP3B	X	0	1.75
38	MP3B	Z	-2.627	1.75
39	MP3B	Mx	.002	1.75
40	MP3B	X	0	3.75
41	MP3B	Z	-2.627	3.75
42	MP3B	Mx	.002	3.75
43	MP3C	X	0	1.75
44	MP3C	Z	-5.228	1.75
45	MP3C	Mx	-.000304	1.75
46	MP3C	X	0	3.75
47	MP3C	Z	-5.228	3.75
48	MP3C	Mx	-.000304	3.75
49	MP5A	X	0	1.75
50	MP5A	Z	-3.108	1.75
51	MP5A	Mx	-.002	1.75
52	MP5A	X	0	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-3.108	3.75
54	MP5A	Mx	-.002	3.75
55	MP2A	X	0	3.5
56	MP2A	Z	-4.18	3.5
57	MP2A	Mx	0	3.5
58	MP3B	X	0	3.5
59	MP3B	Z	-3.14	3.5
60	MP3B	Mx	-.002	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	-3.14	3.5
63	MP3C	Mx	.002	3.5
64	MP2B	X	0	3.5
65	MP2B	Z	-2.742	3.5
66	MP2B	Mx	-.002	3.5
67	MP2C	X	0	3.5
68	MP2C	Z	-2.742	3.5
69	MP2C	Mx	.002	3.5
70	MP4C	X	0	3.5
71	MP4C	Z	-2.742	3.5
72	MP4C	Mx	.002	3.5
73	OVP	X	0	.75
74	OVP	Z	-6.891	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	4.353	.5
2	MP2B	Z	-7.539	.5
3	MP2B	Mx	.003	.5
4	MP2B	X	4.353	5
5	MP2B	Z	-7.539	5
6	MP2B	Mx	.003	5
7	MP2C	X	5.262	.5
8	MP2C	Z	-9.115	.5
9	MP2C	Mx	.01	.5
10	MP2C	X	5.262	5
11	MP2C	Z	-9.115	5
12	MP2C	Mx	.01	5
13	MP2B	X	4.353	.5
14	MP2B	Z	-7.539	.5
15	MP2B	Mx	.008	.5
16	MP2B	X	4.353	5
17	MP2B	Z	-7.539	5
18	MP2B	Mx	.008	5
19	MP2C	X	5.262	.5
20	MP2C	Z	-9.115	.5
21	MP2C	Mx	-.004	.5
22	MP2C	X	5.262	5
23	MP2C	Z	-9.115	5
24	MP2C	Mx	-.004	5
25	MP5C	X	4.808	.5



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
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Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	-8.327	.5
27	MP5C	Mx	.000567	.5
28	MP5C	X	4.808	5
29	MP5C	Z	-8.327	5
30	MP5C	Mx	.000567	5
31	MP5C	X	4.808	.5
32	MP5C	Z	-8.327	.5
33	MP5C	Mx	-.01	.5
34	MP5C	X	4.808	5
35	MP5C	Z	-8.327	5
36	MP5C	Mx	-.01	5
37	MP3B	X	2.1	1.75
38	MP3B	Z	-3.638	1.75
39	MP3B	Mx	.002	1.75
40	MP3B	X	2.1	3.75
41	MP3B	Z	-3.638	3.75
42	MP3B	Mx	.002	3.75
43	MP3C	X	2.341	1.75
44	MP3C	Z	-4.054	1.75
45	MP3C	Mx	.001	1.75
46	MP3C	X	2.341	3.75
47	MP3C	Z	-4.054	3.75
48	MP3C	Mx	.001	3.75
49	MP5A	X	1.04	1.75
50	MP5A	Z	-1.802	1.75
51	MP5A	Mx	-.001	1.75
52	MP5A	X	1.04	3.75
53	MP5A	Z	-1.802	3.75
54	MP5A	Mx	-.001	3.75
55	MP2A	X	1.917	3.5
56	MP2A	Z	-3.32	3.5
57	MP2A	Mx	.001	3.5
58	MP3B	X	1.397	3.5
59	MP3B	Z	-2.42	3.5
60	MP3B	Mx	-.002	3.5
61	MP3C	X	1.917	3.5
62	MP3C	Z	-3.32	3.5
63	MP3C	Mx	.001	3.5
64	MP2B	X	1.132	3.5
65	MP2B	Z	-1.96	3.5
66	MP2B	Mx	-.002	3.5
67	MP2C	X	1.85	3.5
68	MP2C	Z	-3.205	3.5
69	MP2C	Mx	.001	3.5
70	MP4C	X	1.85	3.5
71	MP4C	Z	-3.205	3.5
72	MP4C	Mx	.001	3.5
73	OVP	X	3.713	.75
74	OVP	Z	-6.431	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	8.746	.5
2	MP2B	Z	-5.05	.5
3	MP2B	Mx	-.002	.5
4	MP2B	X	8.746	5
5	MP2B	Z	-5.05	5
6	MP2B	Mx	-.002	5
7	MP2C	X	7.908	.5
8	MP2C	Z	-4.566	.5
9	MP2C	Mx	.009	.5
10	MP2C	X	7.908	5
11	MP2C	Z	-4.566	5
12	MP2C	Mx	.009	5
13	MP2B	X	8.746	.5
14	MP2B	Z	-5.05	.5
15	MP2B	Mx	.01	.5
16	MP2B	X	8.746	5
17	MP2B	Z	-5.05	5
18	MP2B	Mx	.01	5
19	MP2C	X	7.908	.5
20	MP2C	Z	-4.566	.5
21	MP2C	Mx	.001	.5
22	MP2C	X	7.908	5
23	MP2C	Z	-4.566	5
24	MP2C	Mx	.001	5
25	MP5C	X	9.388	.5
26	MP5C	Z	-5.42	.5
27	MP5C	Mx	.006	.5
28	MP5C	X	9.388	5
29	MP5C	Z	-5.42	5
30	MP5C	Mx	.006	5
31	MP5C	X	9.388	.5
32	MP5C	Z	-5.42	.5
33	MP5C	Mx	-.01	.5
34	MP5C	X	9.388	5
35	MP5C	Z	-5.42	5
36	MP5C	Mx	-.01	5
37	MP3B	X	4.528	1.75
38	MP3B	Z	-2.614	1.75
39	MP3B	Mx	.000304	1.75
40	MP3B	X	4.528	3.75
41	MP3B	Z	-2.614	3.75
42	MP3B	Mx	.000304	3.75
43	MP3C	X	2.691	1.75
44	MP3C	Z	-1.554	1.75
45	MP3C	Mx	.002	1.75
46	MP3C	X	2.691	3.75
47	MP3C	Z	-1.554	3.75
48	MP3C	Mx	.002	3.75
49	MP5A	X	2.275	1.75
50	MP5A	Z	-1.314	1.75
51	MP5A	Mx	-.002	1.75
52	MP5A	X	2.275	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-1.314	3.75
54	MP5A	Mx	-.002	3.75
55	MP2A	X	2.72	3.5
56	MP2A	Z	-1.57	3.5
57	MP2A	Mx	.002	3.5
58	MP3B	X	2.72	3.5
59	MP3B	Z	-1.57	3.5
60	MP3B	Mx	-.002	3.5
61	MP3C	X	3.62	3.5
62	MP3C	Z	-2.09	3.5
63	MP3C	Mx	0	3.5
64	MP2B	X	2.375	3.5
65	MP2B	Z	-1.371	3.5
66	MP2B	Mx	-.002	3.5
67	MP2C	X	3.62	3.5
68	MP2C	Z	-2.09	3.5
69	MP2C	Mx	0	3.5
70	MP4C	X	3.62	3.5
71	MP4C	Z	-2.09	3.5
72	MP4C	Mx	0	3.5
73	OVP	X	7.358	.75
74	OVP	Z	-4.248	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	11.009	.5
2	MP2B	Z	0	.5
3	MP2B	Mx	-.008	.5
4	MP2B	X	11.009	5
5	MP2B	Z	0	5
6	MP2B	Mx	-.008	5
7	MP2C	X	8.222	.5
8	MP2C	Z	0	.5
9	MP2C	Mx	.006	.5
10	MP2C	X	8.222	5
11	MP2C	Z	0	5
12	MP2C	Mx	.006	5
13	MP2B	X	11.009	.5
14	MP2B	Z	0	.5
15	MP2B	Mx	.009	.5
16	MP2B	X	11.009	5
17	MP2B	Z	0	5
18	MP2B	Mx	.009	5
19	MP2C	X	8.222	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	.005	.5
22	MP2C	X	8.222	5
23	MP2C	Z	0	5
24	MP2C	Mx	.005	5
25	MP5C	X	10.84	.5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
26	MP5C	Z	0	.5
27	MP5C	Mx	.01	.5
28	MP5C	X	10.84	5
29	MP5C	Z	0	5
30	MP5C	Mx	.01	5
31	MP5C	X	10.84	.5
32	MP5C	Z	0	.5
33	MP5C	Mx	-.006	.5
34	MP5C	X	10.84	5
35	MP5C	Z	0	5
36	MP5C	Mx	-.006	5
37	MP3B	X	4.682	1.75
38	MP3B	Z	0	1.75
39	MP3B	Mx	-.001	1.75
40	MP3B	X	4.682	3.75
41	MP3B	Z	0	3.75
42	MP3B	Mx	-.001	3.75
43	MP3C	X	2.081	1.75
44	MP3C	Z	0	1.75
45	MP3C	Mx	.001	1.75
46	MP3C	X	2.081	3.75
47	MP3C	Z	0	3.75
48	MP3C	Mx	.001	3.75
49	MP5A	X	4.201	1.75
50	MP5A	Z	0	1.75
51	MP5A	Mx	-.002	1.75
52	MP5A	X	4.201	3.75
53	MP5A	Z	0	3.75
54	MP5A	Mx	-.002	3.75
55	MP2A	X	2.794	3.5
56	MP2A	Z	0	3.5
57	MP2A	Mx	.002	3.5
58	MP3B	X	3.833	3.5
59	MP3B	Z	0	3.5
60	MP3B	Mx	-.001	3.5
61	MP3C	X	3.833	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	-.001	3.5
64	MP2B	X	3.7	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	3.7	3.5
68	MP2C	Z	0	3.5
69	MP2C	Mx	-.001	3.5
70	MP4C	X	3.7	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	-.001	3.5
73	OVP	X	9.032	.75
74	OVP	Z	0	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	MP2B	X	9.115	.5
2	MP2B	Z	5.262	.5
3	MP2B	Mx	-.01	.5
4	MP2B	X	9.115	5
5	MP2B	Z	5.262	5
6	MP2B	Mx	-.01	5
7	MP2C	X	7.539	.5
8	MP2C	Z	4.353	.5
9	MP2C	Mx	.003	.5
10	MP2C	X	7.539	5
11	MP2C	Z	4.353	5
12	MP2C	Mx	.003	5
13	MP2B	X	9.115	.5
14	MP2B	Z	5.262	.5
15	MP2B	Mx	.004	.5
16	MP2B	X	9.115	5
17	MP2B	Z	5.262	5
18	MP2B	Mx	.004	5
19	MP2C	X	7.539	.5
20	MP2C	Z	4.353	.5
21	MP2C	Mx	.008	.5
22	MP2C	X	7.539	5
23	MP2C	Z	4.353	5
24	MP2C	Mx	.008	5
25	MP5C	X	8.327	.5
26	MP5C	Z	4.808	.5
27	MP5C	Mx	.01	.5
28	MP5C	X	8.327	5
29	MP5C	Z	4.808	5
30	MP5C	Mx	.01	5
31	MP5C	X	8.327	.5
32	MP5C	Z	4.808	.5
33	MP5C	Mx	-.000566	.5
34	MP5C	X	8.327	5
35	MP5C	Z	4.808	5
36	MP5C	Mx	-.000566	5
37	MP3B	X	2.691	1.75
38	MP3B	Z	1.554	1.75
39	MP3B	Mx	-.002	1.75
40	MP3B	X	2.691	3.75
41	MP3B	Z	1.554	3.75
42	MP3B	Mx	-.002	3.75
43	MP3C	X	2.275	1.75
44	MP3C	Z	1.314	1.75
45	MP3C	Mx	.002	1.75
46	MP3C	X	2.275	3.75
47	MP3C	Z	1.314	3.75
48	MP3C	Mx	.002	3.75
49	MP5A	X	4.528	1.75
50	MP5A	Z	2.614	1.75
51	MP5A	Mx	-.000304	1.75
52	MP5A	X	4.528	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	2.614	3.75
54	MP5A	Mx	-.000304	3.75
55	MP2A	X	2.72	3.5
56	MP2A	Z	1.57	3.5
57	MP2A	Mx	.002	3.5
58	MP3B	X	3.62	3.5
59	MP3B	Z	2.09	3.5
60	MP3B	Mx	0	3.5
61	MP3C	X	2.72	3.5
62	MP3C	Z	1.57	3.5
63	MP3C	Mx	-.002	3.5
64	MP2B	X	3.62	3.5
65	MP2B	Z	2.09	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	2.375	3.5
68	MP2C	Z	1.371	3.5
69	MP2C	Mx	-.002	3.5
70	MP4C	X	2.375	3.5
71	MP4C	Z	1.371	3.5
72	MP4C	Mx	-.002	3.5
73	OVP	X	7.358	.75
74	OVP	Z	4.248	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	4.566	.5
2	MP2B	Z	7.908	.5
3	MP2B	Mx	-.009	.5
4	MP2B	X	4.566	5
5	MP2B	Z	7.908	5
6	MP2B	Mx	-.009	5
7	MP2C	X	5.05	.5
8	MP2C	Z	8.746	.5
9	MP2C	Mx	-.002	.5
10	MP2C	X	5.05	5
11	MP2C	Z	8.746	5
12	MP2C	Mx	-.002	5
13	MP2B	X	4.566	.5
14	MP2B	Z	7.908	.5
15	MP2B	Mx	-.001	.5
16	MP2B	X	4.566	5
17	MP2B	Z	7.908	5
18	MP2B	Mx	-.001	5
19	MP2C	X	5.05	.5
20	MP2C	Z	8.746	.5
21	MP2C	Mx	.01	.5
22	MP2C	X	5.05	5
23	MP2C	Z	8.746	5
24	MP2C	Mx	.01	5
25	MP5C	X	4.195	.5



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	7.266	.5
27	MP5C	Mx	.007	.5
28	MP5C	X	4.195	5
29	MP5C	Z	7.266	5
30	MP5C	Mx	.007	5
31	MP5C	X	4.195	.5
32	MP5C	Z	7.266	.5
33	MP5C	Mx	.004	.5
34	MP5C	X	4.195	5
35	MP5C	Z	7.266	5
36	MP5C	Mx	.004	5
37	MP3B	X	1.04	1.75
38	MP3B	Z	1.802	1.75
39	MP3B	Mx	-.001	1.75
40	MP3B	X	1.04	3.75
41	MP3B	Z	1.802	3.75
42	MP3B	Mx	-.001	3.75
43	MP3C	X	2.1	1.75
44	MP3C	Z	3.638	1.75
45	MP3C	Mx	.002	1.75
46	MP3C	X	2.1	3.75
47	MP3C	Z	3.638	3.75
48	MP3C	Mx	.002	3.75
49	MP5A	X	2.341	1.75
50	MP5A	Z	4.054	1.75
51	MP5A	Mx	.001	1.75
52	MP5A	X	2.341	3.75
53	MP5A	Z	4.054	3.75
54	MP5A	Mx	.001	3.75
55	MP2A	X	1.917	3.5
56	MP2A	Z	3.32	3.5
57	MP2A	Mx	.001	3.5
58	MP3B	X	1.917	3.5
59	MP3B	Z	3.32	3.5
60	MP3B	Mx	.001	3.5
61	MP3C	X	1.397	3.5
62	MP3C	Z	2.42	3.5
63	MP3C	Mx	-.002	3.5
64	MP2B	X	1.85	3.5
65	MP2B	Z	3.205	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	1.132	3.5
68	MP2C	Z	1.96	3.5
69	MP2C	Mx	-.002	3.5
70	MP4C	X	1.132	3.5
71	MP4C	Z	1.96	3.5
72	MP4C	Mx	-.002	3.5
73	OVP	X	3.713	.75
74	OVP	Z	6.431	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	MP2B	X	0	.5
2	MP2B	Z	8.222	.5
3	MP2B	Mx	-.006	.5
4	MP2B	X	0	5
5	MP2B	Z	8.222	5
6	MP2B	Mx	-.006	5
7	MP2C	X	0	.5
8	MP2C	Z	11.009	.5
9	MP2C	Mx	-.008	.5
10	MP2C	X	0	5
11	MP2C	Z	11.009	5
12	MP2C	Mx	-.008	5
13	MP2B	X	0	.5
14	MP2B	Z	8.222	.5
15	MP2B	Mx	-.005	.5
16	MP2B	X	0	5
17	MP2B	Z	8.222	5
18	MP2B	Mx	-.005	5
19	MP2C	X	0	.5
20	MP2C	Z	11.009	.5
21	MP2C	Mx	.009	.5
22	MP2C	X	0	5
23	MP2C	Z	11.009	5
24	MP2C	Mx	.009	5
25	MP5C	X	0	.5
26	MP5C	Z	8.39	.5
27	MP5C	Mx	.004	.5
28	MP5C	X	0	5
29	MP5C	Z	8.39	5
30	MP5C	Mx	.004	5
31	MP5C	X	0	.5
32	MP5C	Z	8.39	.5
33	MP5C	Mx	.007	.5
34	MP5C	X	0	5
35	MP5C	Z	8.39	5
36	MP5C	Mx	.007	5
37	MP3B	X	0	1.75
38	MP3B	Z	2.627	1.75
39	MP3B	Mx	-.002	1.75
40	MP3B	X	0	3.75
41	MP3B	Z	2.627	3.75
42	MP3B	Mx	-.002	3.75
43	MP3C	X	0	1.75
44	MP3C	Z	5.228	1.75
45	MP3C	Mx	.000304	1.75
46	MP3C	X	0	3.75
47	MP3C	Z	5.228	3.75
48	MP3C	Mx	.000304	3.75
49	MP5A	X	0	1.75
50	MP5A	Z	3.108	1.75
51	MP5A	Mx	.002	1.75
52	MP5A	X	0	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	3.108	3.75
54	MP5A	Mx	.002	3.75
55	MP2A	X	0	3.5
56	MP2A	Z	4.18	3.5
57	MP2A	Mx	0	3.5
58	MP3B	X	0	3.5
59	MP3B	Z	3.14	3.5
60	MP3B	Mx	.002	3.5
61	MP3C	X	0	3.5
62	MP3C	Z	3.14	3.5
63	MP3C	Mx	-.002	3.5
64	MP2B	X	0	3.5
65	MP2B	Z	2.742	3.5
66	MP2B	Mx	.002	3.5
67	MP2C	X	0	3.5
68	MP2C	Z	2.742	3.5
69	MP2C	Mx	-.002	3.5
70	MP4C	X	0	3.5
71	MP4C	Z	2.742	3.5
72	MP4C	Mx	-.002	3.5
73	OVP	X	0	.75
74	OVP	Z	6.891	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-4.353	.5
2	MP2B	Z	7.539	.5
3	MP2B	Mx	-.003	.5
4	MP2B	X	-4.353	5
5	MP2B	Z	7.539	5
6	MP2B	Mx	-.003	5
7	MP2C	X	-5.262	.5
8	MP2C	Z	9.115	.5
9	MP2C	Mx	-.01	.5
10	MP2C	X	-5.262	5
11	MP2C	Z	9.115	5
12	MP2C	Mx	-.01	5
13	MP2B	X	-4.353	.5
14	MP2B	Z	7.539	.5
15	MP2B	Mx	-.008	.5
16	MP2B	X	-4.353	5
17	MP2B	Z	7.539	5
18	MP2B	Mx	-.008	5
19	MP2C	X	-5.262	.5
20	MP2C	Z	9.115	.5
21	MP2C	Mx	.004	.5
22	MP2C	X	-5.262	5
23	MP2C	Z	9.115	5
24	MP2C	Mx	.004	5
25	MP5C	X	-4.808	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	8.327	.5
27	MP5C	Mx	-.000567	.5
28	MP5C	X	-4.808	5
29	MP5C	Z	8.327	5
30	MP5C	Mx	-.000567	5
31	MP5C	X	-4.808	.5
32	MP5C	Z	8.327	.5
33	MP5C	Mx	.01	.5
34	MP5C	X	-4.808	5
35	MP5C	Z	8.327	5
36	MP5C	Mx	.01	5
37	MP3B	X	-2.1	1.75
38	MP3B	Z	3.638	1.75
39	MP3B	Mx	-.002	1.75
40	MP3B	X	-2.1	3.75
41	MP3B	Z	3.638	3.75
42	MP3B	Mx	-.002	3.75
43	MP3C	X	-2.341	1.75
44	MP3C	Z	4.054	1.75
45	MP3C	Mx	-.001	1.75
46	MP3C	X	-2.341	3.75
47	MP3C	Z	4.054	3.75
48	MP3C	Mx	-.001	3.75
49	MP5A	X	-1.04	1.75
50	MP5A	Z	1.802	1.75
51	MP5A	Mx	.001	1.75
52	MP5A	X	-1.04	3.75
53	MP5A	Z	1.802	3.75
54	MP5A	Mx	.001	3.75
55	MP2A	X	-1.917	3.5
56	MP2A	Z	3.32	3.5
57	MP2A	Mx	-.001	3.5
58	MP3B	X	-1.397	3.5
59	MP3B	Z	2.42	3.5
60	MP3B	Mx	.002	3.5
61	MP3C	X	-1.917	3.5
62	MP3C	Z	3.32	3.5
63	MP3C	Mx	-.001	3.5
64	MP2B	X	-1.132	3.5
65	MP2B	Z	1.96	3.5
66	MP2B	Mx	.002	3.5
67	MP2C	X	-1.85	3.5
68	MP2C	Z	3.205	3.5
69	MP2C	Mx	-.001	3.5
70	MP4C	X	-1.85	3.5
71	MP4C	Z	3.205	3.5
72	MP4C	Mx	-.001	3.5
73	OVP	X	-3.713	.75
74	OVP	Z	6.431	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-8.746	.5
2	MP2B	Z	5.05	.5
3	MP2B	Mx	.002	.5
4	MP2B	X	-8.746	5
5	MP2B	Z	5.05	5
6	MP2B	Mx	.002	5
7	MP2C	X	-7.908	.5
8	MP2C	Z	4.566	.5
9	MP2C	Mx	-.009	.5
10	MP2C	X	-7.908	5
11	MP2C	Z	4.566	5
12	MP2C	Mx	-.009	5
13	MP2B	X	-8.746	.5
14	MP2B	Z	5.05	.5
15	MP2B	Mx	-.01	.5
16	MP2B	X	-8.746	5
17	MP2B	Z	5.05	5
18	MP2B	Mx	-.01	5
19	MP2C	X	-7.908	.5
20	MP2C	Z	4.566	.5
21	MP2C	Mx	-.001	.5
22	MP2C	X	-7.908	5
23	MP2C	Z	4.566	5
24	MP2C	Mx	-.001	5
25	MP5C	X	-9.388	.5
26	MP5C	Z	5.42	.5
27	MP5C	Mx	-.006	.5
28	MP5C	X	-9.388	5
29	MP5C	Z	5.42	5
30	MP5C	Mx	-.006	5
31	MP5C	X	-9.388	.5
32	MP5C	Z	5.42	.5
33	MP5C	Mx	.01	.5
34	MP5C	X	-9.388	5
35	MP5C	Z	5.42	5
36	MP5C	Mx	.01	5
37	MP3B	X	-4.528	1.75
38	MP3B	Z	2.614	1.75
39	MP3B	Mx	-.000304	1.75
40	MP3B	X	-4.528	3.75
41	MP3B	Z	2.614	3.75
42	MP3B	Mx	-.000304	3.75
43	MP3C	X	-2.691	1.75
44	MP3C	Z	1.554	1.75
45	MP3C	Mx	-.002	1.75
46	MP3C	X	-2.691	3.75
47	MP3C	Z	1.554	3.75
48	MP3C	Mx	-.002	3.75
49	MP5A	X	-2.275	1.75
50	MP5A	Z	1.314	1.75
51	MP5A	Mx	.002	1.75
52	MP5A	X	-2.275	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	1.314	3.75
54	MP5A	Mx	.002	3.75
55	MP2A	X	-2.72	3.5
56	MP2A	Z	1.57	3.5
57	MP2A	Mx	-.002	3.5
58	MP3B	X	-2.72	3.5
59	MP3B	Z	1.57	3.5
60	MP3B	Mx	.002	3.5
61	MP3C	X	-3.62	3.5
62	MP3C	Z	2.09	3.5
63	MP3C	Mx	0	3.5
64	MP2B	X	-2.375	3.5
65	MP2B	Z	1.371	3.5
66	MP2B	Mx	.002	3.5
67	MP2C	X	-3.62	3.5
68	MP2C	Z	2.09	3.5
69	MP2C	Mx	0	3.5
70	MP4C	X	-3.62	3.5
71	MP4C	Z	2.09	3.5
72	MP4C	Mx	0	3.5
73	OVP	X	-7.358	.75
74	OVP	Z	4.248	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-11.009	.5
2	MP2B	Z	0	.5
3	MP2B	Mx	.008	.5
4	MP2B	X	-11.009	5
5	MP2B	Z	0	5
6	MP2B	Mx	.008	5
7	MP2C	X	-8.222	.5
8	MP2C	Z	0	.5
9	MP2C	Mx	-.006	.5
10	MP2C	X	-8.222	5
11	MP2C	Z	0	5
12	MP2C	Mx	-.006	5
13	MP2B	X	-11.009	.5
14	MP2B	Z	0	.5
15	MP2B	Mx	-.009	.5
16	MP2B	X	-11.009	5
17	MP2B	Z	0	5
18	MP2B	Mx	-.009	5
19	MP2C	X	-8.222	.5
20	MP2C	Z	0	.5
21	MP2C	Mx	-.005	.5
22	MP2C	X	-8.222	5
23	MP2C	Z	0	5
24	MP2C	Mx	-.005	5
25	MP5C	X	-10.84	.5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
26	MP5C	Z	0	.5
27	MP5C	Mx	-.01	.5
28	MP5C	X	-10.84	5
29	MP5C	Z	0	5
30	MP5C	Mx	-.01	5
31	MP5C	X	-10.84	.5
32	MP5C	Z	0	.5
33	MP5C	Mx	.006	.5
34	MP5C	X	-10.84	5
35	MP5C	Z	0	5
36	MP5C	Mx	.006	5
37	MP3B	X	-4.682	1.75
38	MP3B	Z	0	1.75
39	MP3B	Mx	.001	1.75
40	MP3B	X	-4.682	3.75
41	MP3B	Z	0	3.75
42	MP3B	Mx	.001	3.75
43	MP3C	X	-2.081	1.75
44	MP3C	Z	0	1.75
45	MP3C	Mx	-.001	1.75
46	MP3C	X	-2.081	3.75
47	MP3C	Z	0	3.75
48	MP3C	Mx	-.001	3.75
49	MP5A	X	-4.201	1.75
50	MP5A	Z	0	1.75
51	MP5A	Mx	.002	1.75
52	MP5A	X	-4.201	3.75
53	MP5A	Z	0	3.75
54	MP5A	Mx	.002	3.75
55	MP2A	X	-2.794	3.5
56	MP2A	Z	0	3.5
57	MP2A	Mx	-.002	3.5
58	MP3B	X	-3.833	3.5
59	MP3B	Z	0	3.5
60	MP3B	Mx	.001	3.5
61	MP3C	X	-3.833	3.5
62	MP3C	Z	0	3.5
63	MP3C	Mx	.001	3.5
64	MP2B	X	-3.7	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	-3.7	3.5
68	MP2C	Z	0	3.5
69	MP2C	Mx	.001	3.5
70	MP4C	X	-3.7	3.5
71	MP4C	Z	0	3.5
72	MP4C	Mx	.001	3.5
73	OVP	X	-9.032	.75
74	OVP	Z	0	.75
75	OVP	Mx	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-9.115	.5
2	MP2B	Z	-5.262	.5
3	MP2B	Mx	.01	.5
4	MP2B	X	-9.115	5
5	MP2B	Z	-5.262	5
6	MP2B	Mx	.01	5
7	MP2C	X	-7.539	.5
8	MP2C	Z	-4.353	.5
9	MP2C	Mx	-.003	.5
10	MP2C	X	-7.539	5
11	MP2C	Z	-4.353	5
12	MP2C	Mx	-.003	5
13	MP2B	X	-9.115	.5
14	MP2B	Z	-5.262	.5
15	MP2B	Mx	-.004	.5
16	MP2B	X	-9.115	5
17	MP2B	Z	-5.262	5
18	MP2B	Mx	-.004	5
19	MP2C	X	-7.539	.5
20	MP2C	Z	-4.353	.5
21	MP2C	Mx	-.008	.5
22	MP2C	X	-7.539	5
23	MP2C	Z	-4.353	5
24	MP2C	Mx	-.008	5
25	MP5C	X	-8.327	.5
26	MP5C	Z	-4.808	.5
27	MP5C	Mx	-.01	.5
28	MP5C	X	-8.327	5
29	MP5C	Z	-4.808	5
30	MP5C	Mx	-.01	5
31	MP5C	X	-8.327	.5
32	MP5C	Z	-4.808	.5
33	MP5C	Mx	.000566	.5
34	MP5C	X	-8.327	5
35	MP5C	Z	-4.808	5
36	MP5C	Mx	.000566	5
37	MP3B	X	-2.691	1.75
38	MP3B	Z	-1.554	1.75
39	MP3B	Mx	.002	1.75
40	MP3B	X	-2.691	3.75
41	MP3B	Z	-1.554	3.75
42	MP3B	Mx	.002	3.75
43	MP3C	X	-2.275	1.75
44	MP3C	Z	-1.314	1.75
45	MP3C	Mx	-.002	1.75
46	MP3C	X	-2.275	3.75
47	MP3C	Z	-1.314	3.75
48	MP3C	Mx	-.002	3.75
49	MP5A	X	-4.528	1.75
50	MP5A	Z	-2.614	1.75
51	MP5A	Mx	.000304	1.75
52	MP5A	X	-4.528	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5A	Z	-2.614	3.75
54	MP5A	Mx	.000304	3.75
55	MP2A	X	-2.72	3.5
56	MP2A	Z	-1.57	3.5
57	MP2A	Mx	-.002	3.5
58	MP3B	X	-3.62	3.5
59	MP3B	Z	-2.09	3.5
60	MP3B	Mx	0	3.5
61	MP3C	X	-2.72	3.5
62	MP3C	Z	-1.57	3.5
63	MP3C	Mx	.002	3.5
64	MP2B	X	-3.62	3.5
65	MP2B	Z	-2.09	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	-2.375	3.5
68	MP2C	Z	-1.371	3.5
69	MP2C	Mx	.002	3.5
70	MP4C	X	-2.375	3.5
71	MP4C	Z	-1.371	3.5
72	MP4C	Mx	.002	3.5
73	OVP	X	-7.358	.75
74	OVP	Z	-4.248	.75
75	OVP	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2B	X	-4.566	.5
2	MP2B	Z	-7.908	.5
3	MP2B	Mx	.009	.5
4	MP2B	X	-4.566	5
5	MP2B	Z	-7.908	5
6	MP2B	Mx	.009	5
7	MP2C	X	-5.05	.5
8	MP2C	Z	-8.746	.5
9	MP2C	Mx	.002	.5
10	MP2C	X	-5.05	5
11	MP2C	Z	-8.746	5
12	MP2C	Mx	.002	5
13	MP2B	X	-4.566	.5
14	MP2B	Z	-7.908	.5
15	MP2B	Mx	.001	.5
16	MP2B	X	-4.566	5
17	MP2B	Z	-7.908	5
18	MP2B	Mx	.001	5
19	MP2C	X	-5.05	.5
20	MP2C	Z	-8.746	.5
21	MP2C	Mx	-.01	.5
22	MP2C	X	-5.05	5
23	MP2C	Z	-8.746	5
24	MP2C	Mx	-.01	5
25	MP5C	X	-4.195	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP5C	Z	-7.266	.5
27	MP5C	Mx	-.007	.5
28	MP5C	X	-4.195	5
29	MP5C	Z	-7.266	5
30	MP5C	Mx	-.007	5
31	MP5C	X	-4.195	.5
32	MP5C	Z	-7.266	.5
33	MP5C	Mx	-.004	.5
34	MP5C	X	-4.195	5
35	MP5C	Z	-7.266	5
36	MP5C	Mx	-.004	5
37	MP3B	X	-1.04	1.75
38	MP3B	Z	-1.802	1.75
39	MP3B	Mx	.001	1.75
40	MP3B	X	-1.04	3.75
41	MP3B	Z	-1.802	3.75
42	MP3B	Mx	.001	3.75
43	MP3C	X	-2.1	1.75
44	MP3C	Z	-3.638	1.75
45	MP3C	Mx	-.002	1.75
46	MP3C	X	-2.1	3.75
47	MP3C	Z	-3.638	3.75
48	MP3C	Mx	-.002	3.75
49	MP5A	X	-2.341	1.75
50	MP5A	Z	-4.054	1.75
51	MP5A	Mx	-.001	1.75
52	MP5A	X	-2.341	3.75
53	MP5A	Z	-4.054	3.75
54	MP5A	Mx	-.001	3.75
55	MP2A	X	-1.917	3.5
56	MP2A	Z	-3.32	3.5
57	MP2A	Mx	-.001	3.5
58	MP3B	X	-1.917	3.5
59	MP3B	Z	-3.32	3.5
60	MP3B	Mx	-.001	3.5
61	MP3C	X	-1.397	3.5
62	MP3C	Z	-2.42	3.5
63	MP3C	Mx	.002	3.5
64	MP2B	X	-1.85	3.5
65	MP2B	Z	-3.205	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	-1.132	3.5
68	MP2C	Z	-1.96	3.5
69	MP2C	Mx	.002	3.5
70	MP4C	X	-1.132	3.5
71	MP4C	Z	-1.96	3.5
72	MP4C	Mx	.002	3.5
73	OVP	X	-3.713	.75
74	OVP	Z	-6.431	.75
75	OVP	Mx	0	.75



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Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M77	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M55	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M55	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	Y	-9.908	-9.908	0	%100
2	M2	Y	-9.908	-9.908	0	%100
3	M3	Y	-6.785	-6.785	0	%100
4	M4	Y	-5.812	-5.812	0	%100
5	M5	Y	-5.812	-5.812	0	%100
6	M6	Y	-10.435	-10.435	0	%100
7	M7	Y	-10.435	-10.435	0	%100
8	M8	Y	-10.435	-10.435	0	%100
9	M9	Y	-7.534	-7.534	0	%100
10	M10	Y	-7.534	-7.534	0	%100
11	M11	Y	-7.534	-7.534	0	%100
12	M12	Y	-7.534	-7.534	0	%100
13	M27	Y	-9.908	-9.908	0	%100
14	M28	Y	-9.908	-9.908	0	%100
15	M29	Y	-6.785	-6.785	0	%100
16	M30	Y	-5.812	-5.812	0	%100
17	M31	Y	-5.812	-5.812	0	%100
18	M32	Y	-10.435	-10.435	0	%100
19	M33	Y	-10.435	-10.435	0	%100
20	M34	Y	-10.435	-10.435	0	%100
21	M35	Y	-7.534	-7.534	0	%100
22	M36	Y	-7.534	-7.534	0	%100
23	M37	Y	-7.534	-7.534	0	%100
24	M38	Y	-7.534	-7.534	0	%100
25	M53	Y	-9.908	-9.908	0	%100
26	M54	Y	-9.908	-9.908	0	%100
27	M55	Y	-6.785	-6.785	0	%100
28	M56	Y	-5.812	-5.812	0	%100
29	M57	Y	-5.812	-5.812	0	%100
30	M58	Y	-10.435	-10.435	0	%100
31	M59	Y	-10.435	-10.435	0	%100
32	M60	Y	-10.435	-10.435	0	%100
33	M61	Y	-7.534	-7.534	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft, %]	End Location[ft, %]
34	M62	Y	-7.534	-7.534	0	% 100
35	M63	Y	-7.534	-7.534	0	% 100
36	M64	Y	-7.534	-7.534	0	% 100
37	MP1A	Y	-5.156	-5.156	0	% 100
38	MP1B	Y	-5.156	-5.156	0	% 100
39	MP1C	Y	-5.156	-5.156	0	% 100
40	MP2A	Y	-5.156	-5.156	0	% 100
41	MP2B	Y	-5.88	-5.88	0	% 100
42	MP2C	Y	-5.88	-5.88	0	% 100
43	MP3A	Y	-5.156	-5.156	0	% 100
44	MP3B	Y	-5.156	-5.156	0	% 100
45	MP3C	Y	-5.156	-5.156	0	% 100
46	MP4A	Y	-5.156	-5.156	0	% 100
47	MP4B	Y	-5.156	-5.156	0	% 100
48	MP4C	Y	-5.156	-5.156	0	% 100
49	MP5A	Y	-5.156	-5.156	0	% 100
50	MP5B	Y	-5.156	-5.156	0	% 100
51	MP5C	Y	-5.88	-5.88	0	% 100
52	OVP	Y	-5.156	-5.156	0	% 100
53	M86	Y	-5.88	-5.88	0	% 100
54	M94	Y	-5.88	-5.88	0	% 100
55	M102	Y	-5.88	-5.88	0	% 100
56	M105	Y	-7.86	-7.86	0	% 100
57	M106	Y	-7.86	-7.86	0	% 100
58	M107	Y	-7.86	-7.86	0	% 100
59	M108	Y	-10.948	-10.948	0	% 100
60	M109	Y	-10.948	-10.948	0	% 100
61	M110	Y	-10.948	-10.948	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft, %]	End Location[ft, %]
1	OVP2	X	0	0	0	% 100
2	OVP2	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	-11.581	-11.581	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	-11.441	-11.441	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	-10.896	-10.896	0	% 100
9	M5	X	0	0	0	% 100
10	M5	Z	-10.896	-10.896	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	-4.903	-4.903	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	-4.903	-4.903	0	% 100
15	M8	X	0	0	0	% 100
16	M8	Z	-19.613	-19.613	0	% 100
17	M9	X	0	0	0	% 100
18	M9	Z	0	0	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	-3.269	-3.269	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
21	M11	X	0	0	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	-3.269	-3.269	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	-8.706	-8.706	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	-2.895	-2.895	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	-2.86	-2.86	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	-2.724	-2.724	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	-2.724	-2.724	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	-19.613	-19.613	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	-4.903	-4.903	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	-4.903	-4.903	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	-9.807	-9.807	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	-3.269	-3.269	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	-9.807	-9.807	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	-13.076	-13.076	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	-8.706	-8.706	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	-2.895	-2.895	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	-2.86	-2.86	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	-2.724	-2.724	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	-2.724	-2.724	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	-4.903	-4.903	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	-19.613	-19.613	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	-4.903	-4.903	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	-9.807	-9.807	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	-13.076	-13.076	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	-9.807	-9.807	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	-3.269	-3.269	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
73	MP1A	X	0	0	0	% 100
74	MP1A	Z	-7.764	-7.764	0	% 100
75	MP1B	X	0	0	0	% 100
76	MP1B	Z	-7.764	-7.764	0	% 100
77	MP1C	X	0	0	0	% 100
78	MP1C	Z	-7.764	-7.764	0	% 100
79	MP2A	X	0	0	0	% 100
80	MP2A	Z	-7.764	-7.764	0	% 100
81	MP2B	X	0	0	0	% 100
82	MP2B	Z	-9.398	-9.398	0	% 100
83	MP2C	X	0	0	0	% 100
84	MP2C	Z	-9.398	-9.398	0	% 100
85	MP3A	X	0	0	0	% 100
86	MP3A	Z	-7.764	-7.764	0	% 100
87	MP3B	X	0	0	0	% 100
88	MP3B	Z	-7.764	-7.764	0	% 100
89	MP3C	X	0	0	0	% 100
90	MP3C	Z	-7.764	-7.764	0	% 100
91	MP4A	X	0	0	0	% 100
92	MP4A	Z	-7.764	-7.764	0	% 100
93	MP4B	X	0	0	0	% 100
94	MP4B	Z	-7.764	-7.764	0	% 100
95	MP4C	X	0	0	0	% 100
96	MP4C	Z	-7.764	-7.764	0	% 100
97	MP5A	X	0	0	0	% 100
98	MP5A	Z	-7.764	-7.764	0	% 100
99	MP5B	X	0	0	0	% 100
100	MP5B	Z	-7.764	-7.764	0	% 100
101	MP5C	X	0	0	0	% 100
102	MP5C	Z	-9.398	-9.398	0	% 100
103	OVP	X	0	0	0	% 100
104	OVP	Z	-6.349	-6.349	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	-9.398	-9.398	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	-2.35	-2.35	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	-2.35	-2.35	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	-2.879	-2.879	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	-11.514	-11.514	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	-2.879	-2.879	0	% 100
117	M108	X	0	0	0	% 100
118	M108	Z	-11.156	-11.156	0	% 100
119	M109	X	0	0	0	% 100
120	M109	Z	-13.622	-13.622	0	% 100
121	M110	X	0	0	0	% 100
122	M110	Z	-13.622	-13.622	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	1.451	1.451	0	% 100
2	OVP2	Z	-2.513	-2.513	0	% 100
3	M2	X	4.343	4.343	0	% 100
4	M2	Z	-7.522	-7.522	0	% 100
5	M3	X	4.29	4.29	0	% 100
6	M3	Z	-7.431	-7.431	0	% 100
7	M4	X	4.086	4.086	0	% 100
8	M4	Z	-7.077	-7.077	0	% 100
9	M5	X	4.086	4.086	0	% 100
10	M5	Z	-7.077	-7.077	0	% 100
11	M6	X	7.355	7.355	0	% 100
12	M6	Z	-12.739	-12.739	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	7.355	7.355	0	% 100
16	M8	Z	-12.739	-12.739	0	% 100
17	M9	X	1.634	1.634	0	% 100
18	M9	Z	-2.831	-2.831	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	1.634	1.634	0	% 100
22	M11	Z	-2.831	-2.831	0	% 100
23	M12	X	4.903	4.903	0	% 100
24	M12	Z	-8.493	-8.493	0	% 100
25	M27	X	5.804	5.804	0	% 100
26	M27	Z	-10.052	-10.052	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	7.355	7.355	0	% 100
36	M32	Z	-12.739	-12.739	0	% 100
37	M33	X	7.355	7.355	0	% 100
38	M33	Z	-12.739	-12.739	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	6.538	6.538	0	% 100
42	M35	Z	-11.324	-11.324	0	% 100
43	M36	X	4.903	4.903	0	% 100
44	M36	Z	-8.493	-8.493	0	% 100
45	M37	X	6.538	6.538	0	% 100
46	M37	Z	-11.324	-11.324	0	% 100
47	M38	X	4.903	4.903	0	% 100
48	M38	Z	-8.493	-8.493	0	% 100
49	M53	X	1.451	1.451	0	% 100
50	M53	Z	-2.513	-2.513	0	% 100
51	M54	X	4.343	4.343	0	% 100
52	M54	Z	-7.522	-7.522	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
53	M55	X	4.29	4.29	0	% 100
54	M55	Z	-7.431	-7.431	0	% 100
55	M56	X	4.086	4.086	0	% 100
56	M56	Z	-7.077	-7.077	0	% 100
57	M57	X	4.086	4.086	0	% 100
58	M57	Z	-7.077	-7.077	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	7.355	7.355	0	% 100
62	M59	Z	-12.739	-12.739	0	% 100
63	M60	X	7.355	7.355	0	% 100
64	M60	Z	-12.739	-12.739	0	% 100
65	M61	X	1.634	1.634	0	% 100
66	M61	Z	-2.831	-2.831	0	% 100
67	M62	X	4.903	4.903	0	% 100
68	M62	Z	-8.493	-8.493	0	% 100
69	M63	X	1.634	1.634	0	% 100
70	M63	Z	-2.831	-2.831	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	3.882	3.882	0	% 100
74	MP1A	Z	-6.723	-6.723	0	% 100
75	MP1B	X	3.882	3.882	0	% 100
76	MP1B	Z	-6.723	-6.723	0	% 100
77	MP1C	X	3.882	3.882	0	% 100
78	MP1C	Z	-6.723	-6.723	0	% 100
79	MP2A	X	3.882	3.882	0	% 100
80	MP2A	Z	-6.723	-6.723	0	% 100
81	MP2B	X	4.699	4.699	0	% 100
82	MP2B	Z	-8.139	-8.139	0	% 100
83	MP2C	X	4.699	4.699	0	% 100
84	MP2C	Z	-8.139	-8.139	0	% 100
85	MP3A	X	3.882	3.882	0	% 100
86	MP3A	Z	-6.723	-6.723	0	% 100
87	MP3B	X	3.882	3.882	0	% 100
88	MP3B	Z	-6.723	-6.723	0	% 100
89	MP3C	X	3.882	3.882	0	% 100
90	MP3C	Z	-6.723	-6.723	0	% 100
91	MP4A	X	3.882	3.882	0	% 100
92	MP4A	Z	-6.723	-6.723	0	% 100
93	MP4B	X	3.882	3.882	0	% 100
94	MP4B	Z	-6.723	-6.723	0	% 100
95	MP4C	X	3.882	3.882	0	% 100
96	MP4C	Z	-6.723	-6.723	0	% 100
97	MP5A	X	3.882	3.882	0	% 100
98	MP5A	Z	-6.723	-6.723	0	% 100
99	MP5B	X	3.882	3.882	0	% 100
100	MP5B	Z	-6.723	-6.723	0	% 100
101	MP5C	X	4.699	4.699	0	% 100
102	MP5C	Z	-8.139	-8.139	0	% 100
103	OVP	X	3.174	3.174	0	% 100
104	OVP	Z	-5.498	-5.498	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
105	M86	X	3.524 3.524	0	% 100
106	M86	Z	-6.104 -6.104	0	% 100
107	M94	X	3.524 3.524	0	% 100
108	M94	Z	-6.104 -6.104	0	% 100
109	M102	X	0 0	0	% 100
110	M102	Z	0 0	0	% 100
111	M105	X	4.318 4.318	0	% 100
112	M105	Z	-7.479 -7.479	0	% 100
113	M106	X	4.318 4.318	0	% 100
114	M106	Z	-7.479 -7.479	0	% 100
115	M107	X	0 0	0	% 100
116	M107	Z	0 0	0	% 100
117	M108	X	5.989 5.989	0	% 100
118	M108	Z	-10.373 -10.373	0	% 100
119	M109	X	5.989 5.989	0	% 100
120	M109	Z	-10.373 -10.373	0	% 100
121	M110	X	7.222 7.222	0	% 100
122	M110	Z	-12.509 -12.509	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	7.539 7.539	0	% 100
2	OVP2	Z	-4.353 -4.353	0	% 100
3	M2	X	2.507 2.507	0	% 100
4	M2	Z	-1.448 -1.448	0	% 100
5	M3	X	2.477 2.477	0	% 100
6	M3	Z	-1.43 -1.43	0	% 100
7	M4	X	2.359 2.359	0	% 100
8	M4	Z	-1.362 -1.362	0	% 100
9	M5	X	2.359 2.359	0	% 100
10	M5	Z	-1.362 -1.362	0	% 100
11	M6	X	16.986 16.986	0	% 100
12	M6	Z	-9.807 -9.807	0	% 100
13	M7	X	4.246 4.246	0	% 100
14	M7	Z	-2.452 -2.452	0	% 100
15	M8	X	4.246 4.246	0	% 100
16	M8	Z	-2.452 -2.452	0	% 100
17	M9	X	8.493 8.493	0	% 100
18	M9	Z	-4.903 -4.903	0	% 100
19	M10	X	2.831 2.831	0	% 100
20	M10	Z	-1.634 -1.634	0	% 100
21	M11	X	8.493 8.493	0	% 100
22	M11	Z	-4.903 -4.903	0	% 100
23	M12	X	11.324 11.324	0	% 100
24	M12	Z	-6.538 -6.538	0	% 100
25	M27	X	7.539 7.539	0	% 100
26	M27	Z	-4.353 -4.353	0	% 100
27	M28	X	2.507 2.507	0	% 100
28	M28	Z	-1.448 -1.448	0	% 100
29	M29	X	2.477 2.477	0	% 100
30	M29	Z	-1.43 -1.43	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
31	M30	X	2.359	2.359	0	% 100
32	M30	Z	-1.362	-1.362	0	% 100
33	M31	X	2.359	2.359	0	% 100
34	M31	Z	-1.362	-1.362	0	% 100
35	M32	X	4.246	4.246	0	% 100
36	M32	Z	-2.452	-2.452	0	% 100
37	M33	X	16.986	16.986	0	% 100
38	M33	Z	-9.807	-9.807	0	% 100
39	M34	X	4.246	4.246	0	% 100
40	M34	Z	-2.452	-2.452	0	% 100
41	M35	X	8.493	8.493	0	% 100
42	M35	Z	-4.903	-4.903	0	% 100
43	M36	X	11.324	11.324	0	% 100
44	M36	Z	-6.538	-6.538	0	% 100
45	M37	X	8.493	8.493	0	% 100
46	M37	Z	-4.903	-4.903	0	% 100
47	M38	X	2.831	2.831	0	% 100
48	M38	Z	-1.634	-1.634	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	10.029	10.029	0	% 100
52	M54	Z	-5.791	-5.791	0	% 100
53	M55	X	9.908	9.908	0	% 100
54	M55	Z	-5.721	-5.721	0	% 100
55	M56	X	9.436	9.436	0	% 100
56	M56	Z	-5.448	-5.448	0	% 100
57	M57	X	9.436	9.436	0	% 100
58	M57	Z	-5.448	-5.448	0	% 100
59	M58	X	4.246	4.246	0	% 100
60	M58	Z	-2.452	-2.452	0	% 100
61	M59	X	4.246	4.246	0	% 100
62	M59	Z	-2.452	-2.452	0	% 100
63	M60	X	16.986	16.986	0	% 100
64	M60	Z	-9.807	-9.807	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	2.831	2.831	0	% 100
68	M62	Z	-1.634	-1.634	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	2.831	2.831	0	% 100
72	M64	Z	-1.634	-1.634	0	% 100
73	MP1A	X	6.723	6.723	0	% 100
74	MP1A	Z	-3.882	-3.882	0	% 100
75	MP1B	X	6.723	6.723	0	% 100
76	MP1B	Z	-3.882	-3.882	0	% 100
77	MP1C	X	6.723	6.723	0	% 100
78	MP1C	Z	-3.882	-3.882	0	% 100
79	MP2A	X	6.723	6.723	0	% 100
80	MP2A	Z	-3.882	-3.882	0	% 100
81	MP2B	X	8.139	8.139	0	% 100
82	MP2B	Z	-4.699	-4.699	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft, %]	End Location[ft, %]
83	MP2C	X	8.139	8.139	0	% 100
84	MP2C	Z	-4.699	-4.699	0	% 100
85	MP3A	X	6.723	6.723	0	% 100
86	MP3A	Z	-3.882	-3.882	0	% 100
87	MP3B	X	6.723	6.723	0	% 100
88	MP3B	Z	-3.882	-3.882	0	% 100
89	MP3C	X	6.723	6.723	0	% 100
90	MP3C	Z	-3.882	-3.882	0	% 100
91	MP4A	X	6.723	6.723	0	% 100
92	MP4A	Z	-3.882	-3.882	0	% 100
93	MP4B	X	6.723	6.723	0	% 100
94	MP4B	Z	-3.882	-3.882	0	% 100
95	MP4C	X	6.723	6.723	0	% 100
96	MP4C	Z	-3.882	-3.882	0	% 100
97	MP5A	X	6.723	6.723	0	% 100
98	MP5A	Z	-3.882	-3.882	0	% 100
99	MP5B	X	6.723	6.723	0	% 100
100	MP5B	Z	-3.882	-3.882	0	% 100
101	MP5C	X	8.139	8.139	0	% 100
102	MP5C	Z	-4.699	-4.699	0	% 100
103	OVP	X	5.498	5.498	0	% 100
104	OVP	Z	-3.174	-3.174	0	% 100
105	M86	X	2.035	2.035	0	% 100
106	M86	Z	-1.175	-1.175	0	% 100
107	M94	X	8.139	8.139	0	% 100
108	M94	Z	-4.699	-4.699	0	% 100
109	M102	X	2.035	2.035	0	% 100
110	M102	Z	-1.175	-1.175	0	% 100
111	M105	X	9.972	9.972	0	% 100
112	M105	Z	-5.757	-5.757	0	% 100
113	M106	X	2.493	2.493	0	% 100
114	M106	Z	-1.439	-1.439	0	% 100
115	M107	X	2.493	2.493	0	% 100
116	M107	Z	-1.439	-1.439	0	% 100
117	M108	X	11.797	11.797	0	% 100
118	M108	Z	-6.811	-6.811	0	% 100
119	M109	X	9.662	9.662	0	% 100
120	M109	Z	-5.578	-5.578	0	% 100
121	M110	X	11.797	11.797	0	% 100
122	M110	Z	-6.811	-6.811	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft, %]	End Location[ft, %]
1	OVP2	X	11.608	11.608	0	% 100
2	OVP2	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	0	0	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
9	M5	X	0	0	0	% 100
10	M5	Z	0	0	0	% 100
11	M6	X	14.71	14.71	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	14.71	14.71	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	0	0	0	% 100
16	M8	Z	0	0	0	% 100
17	M9	X	13.076	13.076	0	% 100
18	M9	Z	0	0	0	% 100
19	M10	X	9.807	9.807	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	13.076	13.076	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	9.807	9.807	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	2.902	2.902	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	8.686	8.686	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	8.581	8.581	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	8.172	8.172	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	8.172	8.172	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	0	0	0	% 100
37	M33	X	14.71	14.71	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	14.71	14.71	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	3.269	3.269	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	9.807	9.807	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	3.269	3.269	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	0	0	0	% 100
49	M53	X	2.902	2.902	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	8.686	8.686	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	8.581	8.581	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	8.172	8.172	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	8.172	8.172	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	14.71	14.71	0	% 100
60	M58	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
61	M59	X	0	0	0	% 100
62	M59	Z	0	0	0	% 100
63	M60	X	14.71	14.71	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	3.269	3.269	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	0	0	0	% 100
69	M63	X	3.269	3.269	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	9.807	9.807	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	7.764	7.764	0	% 100
74	MP1A	Z	0	0	0	% 100
75	MP1B	X	7.764	7.764	0	% 100
76	MP1B	Z	0	0	0	% 100
77	MP1C	X	7.764	7.764	0	% 100
78	MP1C	Z	0	0	0	% 100
79	MP2A	X	7.764	7.764	0	% 100
80	MP2A	Z	0	0	0	% 100
81	MP2B	X	9.398	9.398	0	% 100
82	MP2B	Z	0	0	0	% 100
83	MP2C	X	9.398	9.398	0	% 100
84	MP2C	Z	0	0	0	% 100
85	MP3A	X	7.764	7.764	0	% 100
86	MP3A	Z	0	0	0	% 100
87	MP3B	X	7.764	7.764	0	% 100
88	MP3B	Z	0	0	0	% 100
89	MP3C	X	7.764	7.764	0	% 100
90	MP3C	Z	0	0	0	% 100
91	MP4A	X	7.764	7.764	0	% 100
92	MP4A	Z	0	0	0	% 100
93	MP4B	X	7.764	7.764	0	% 100
94	MP4B	Z	0	0	0	% 100
95	MP4C	X	7.764	7.764	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5A	X	7.764	7.764	0	% 100
98	MP5A	Z	0	0	0	% 100
99	MP5B	X	7.764	7.764	0	% 100
100	MP5B	Z	0	0	0	% 100
101	MP5C	X	9.398	9.398	0	% 100
102	MP5C	Z	0	0	0	% 100
103	OVP	X	6.349	6.349	0	% 100
104	OVP	Z	0	0	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	0	0	0	% 100
107	M94	X	7.049	7.049	0	% 100
108	M94	Z	0	0	0	% 100
109	M102	X	7.049	7.049	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	8.636	8.636	0	% 100
112	M105	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
113	M106	X	0	0	0	% 100
114	M106	Z	0	0	0	% 100
115	M107	X	8.636	8.636	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	14.444	14.444	0	% 100
118	M108	Z	0	0	0	% 100
119	M109	X	11.978	11.978	0	% 100
120	M109	Z	0	0	0	% 100
121	M110	X	11.978	11.978	0	% 100
122	M110	Z	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	7.539	7.539	0	% 100
2	OVP2	Z	4.353	4.353	0	% 100
3	M2	X	2.507	2.507	0	% 100
4	M2	Z	1.448	1.448	0	% 100
5	M3	X	2.477	2.477	0	% 100
6	M3	Z	1.43	1.43	0	% 100
7	M4	X	2.359	2.359	0	% 100
8	M4	Z	1.362	1.362	0	% 100
9	M5	X	2.359	2.359	0	% 100
10	M5	Z	1.362	1.362	0	% 100
11	M6	X	4.246	4.246	0	% 100
12	M6	Z	2.452	2.452	0	% 100
13	M7	X	16.986	16.986	0	% 100
14	M7	Z	9.807	9.807	0	% 100
15	M8	X	4.246	4.246	0	% 100
16	M8	Z	2.452	2.452	0	% 100
17	M9	X	8.493	8.493	0	% 100
18	M9	Z	4.903	4.903	0	% 100
19	M10	X	11.324	11.324	0	% 100
20	M10	Z	6.538	6.538	0	% 100
21	M11	X	8.493	8.493	0	% 100
22	M11	Z	4.903	4.903	0	% 100
23	M12	X	2.831	2.831	0	% 100
24	M12	Z	1.634	1.634	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	10.029	10.029	0	% 100
28	M28	Z	5.791	5.791	0	% 100
29	M29	X	9.908	9.908	0	% 100
30	M29	Z	5.721	5.721	0	% 100
31	M30	X	9.436	9.436	0	% 100
32	M30	Z	5.448	5.448	0	% 100
33	M31	X	9.436	9.436	0	% 100
34	M31	Z	5.448	5.448	0	% 100
35	M32	X	4.246	4.246	0	% 100
36	M32	Z	2.452	2.452	0	% 100
37	M33	X	4.246	4.246	0	% 100
38	M33	Z	2.452	2.452	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
39	M34	X	16.986	16.986	0	% 100
40	M34	Z	9.807	9.807	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	2.831	2.831	0	% 100
44	M36	Z	1.634	1.634	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	2.831	2.831	0	% 100
48	M38	Z	1.634	1.634	0	% 100
49	M53	X	7.539	7.539	0	% 100
50	M53	Z	4.353	4.353	0	% 100
51	M54	X	2.507	2.507	0	% 100
52	M54	Z	1.448	1.448	0	% 100
53	M55	X	2.477	2.477	0	% 100
54	M55	Z	1.43	1.43	0	% 100
55	M56	X	2.359	2.359	0	% 100
56	M56	Z	1.362	1.362	0	% 100
57	M57	X	2.359	2.359	0	% 100
58	M57	Z	1.362	1.362	0	% 100
59	M58	X	16.986	16.986	0	% 100
60	M58	Z	9.807	9.807	0	% 100
61	M59	X	4.246	4.246	0	% 100
62	M59	Z	2.452	2.452	0	% 100
63	M60	X	4.246	4.246	0	% 100
64	M60	Z	2.452	2.452	0	% 100
65	M61	X	8.493	8.493	0	% 100
66	M61	Z	4.903	4.903	0	% 100
67	M62	X	2.831	2.831	0	% 100
68	M62	Z	1.634	1.634	0	% 100
69	M63	X	8.493	8.493	0	% 100
70	M63	Z	4.903	4.903	0	% 100
71	M64	X	11.324	11.324	0	% 100
72	M64	Z	6.538	6.538	0	% 100
73	MP1A	X	6.723	6.723	0	% 100
74	MP1A	Z	3.882	3.882	0	% 100
75	MP1B	X	6.723	6.723	0	% 100
76	MP1B	Z	3.882	3.882	0	% 100
77	MP1C	X	6.723	6.723	0	% 100
78	MP1C	Z	3.882	3.882	0	% 100
79	MP2A	X	6.723	6.723	0	% 100
80	MP2A	Z	3.882	3.882	0	% 100
81	MP2B	X	8.139	8.139	0	% 100
82	MP2B	Z	4.699	4.699	0	% 100
83	MP2C	X	8.139	8.139	0	% 100
84	MP2C	Z	4.699	4.699	0	% 100
85	MP3A	X	6.723	6.723	0	% 100
86	MP3A	Z	3.882	3.882	0	% 100
87	MP3B	X	6.723	6.723	0	% 100
88	MP3B	Z	3.882	3.882	0	% 100
89	MP3C	X	6.723	6.723	0	% 100
90	MP3C	Z	3.882	3.882	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
91	MP4A	X	6.723 6.723	0	% 100
92	MP4A	Z	3.882 3.882	0	% 100
93	MP4B	X	6.723 6.723	0	% 100
94	MP4B	Z	3.882 3.882	0	% 100
95	MP4C	X	6.723 6.723	0	% 100
96	MP4C	Z	3.882 3.882	0	% 100
97	MP5A	X	6.723 6.723	0	% 100
98	MP5A	Z	3.882 3.882	0	% 100
99	MP5B	X	6.723 6.723	0	% 100
100	MP5B	Z	3.882 3.882	0	% 100
101	MP5C	X	8.139 8.139	0	% 100
102	MP5C	Z	4.699 4.699	0	% 100
103	OVP	X	5.498 5.498	0	% 100
104	OVP	Z	3.174 3.174	0	% 100
105	M86	X	2.035 2.035	0	% 100
106	M86	Z	1.175 1.175	0	% 100
107	M94	X	2.035 2.035	0	% 100
108	M94	Z	1.175 1.175	0	% 100
109	M102	X	8.139 8.139	0	% 100
110	M102	Z	4.699 4.699	0	% 100
111	M105	X	2.493 2.493	0	% 100
112	M105	Z	1.439 1.439	0	% 100
113	M106	X	2.493 2.493	0	% 100
114	M106	Z	1.439 1.439	0	% 100
115	M107	X	9.972 9.972	0	% 100
116	M107	Z	5.757 5.757	0	% 100
117	M108	X	11.797 11.797	0	% 100
118	M108	Z	6.811 6.811	0	% 100
119	M109	X	11.797 11.797	0	% 100
120	M109	Z	6.811 6.811	0	% 100
121	M110	X	9.662 9.662	0	% 100
122	M110	Z	5.578 5.578	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	1.451 1.451	0	% 100
2	OVP2	Z	2.513 2.513	0	% 100
3	M2	X	4.343 4.343	0	% 100
4	M2	Z	7.522 7.522	0	% 100
5	M3	X	4.29 4.29	0	% 100
6	M3	Z	7.431 7.431	0	% 100
7	M4	X	4.086 4.086	0	% 100
8	M4	Z	7.077 7.077	0	% 100
9	M5	X	4.086 4.086	0	% 100
10	M5	Z	7.077 7.077	0	% 100
11	M6	X	0 0	0	% 100
12	M6	Z	0 0	0	% 100
13	M7	X	7.355 7.355	0	% 100
14	M7	Z	12.739 12.739	0	% 100
15	M8	X	7.355 7.355	0	% 100
16	M8	Z	12.739 12.739	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
17	M9	X	1.634	1.634	0	% 100
18	M9	Z	2.831	2.831	0	% 100
19	M10	X	4.903	4.903	0	% 100
20	M10	Z	8.493	8.493	0	% 100
21	M11	X	1.634	1.634	0	% 100
22	M11	Z	2.831	2.831	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	1.451	1.451	0	% 100
26	M27	Z	2.513	2.513	0	% 100
27	M28	X	4.343	4.343	0	% 100
28	M28	Z	7.522	7.522	0	% 100
29	M29	X	4.29	4.29	0	% 100
30	M29	Z	7.431	7.431	0	% 100
31	M30	X	4.086	4.086	0	% 100
32	M30	Z	7.077	7.077	0	% 100
33	M31	X	4.086	4.086	0	% 100
34	M31	Z	7.077	7.077	0	% 100
35	M32	X	7.355	7.355	0	% 100
36	M32	Z	12.739	12.739	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	7.355	7.355	0	% 100
40	M34	Z	12.739	12.739	0	% 100
41	M35	X	1.634	1.634	0	% 100
42	M35	Z	2.831	2.831	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	1.634	1.634	0	% 100
46	M37	Z	2.831	2.831	0	% 100
47	M38	X	4.903	4.903	0	% 100
48	M38	Z	8.493	8.493	0	% 100
49	M53	X	5.804	5.804	0	% 100
50	M53	Z	10.052	10.052	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	7.355	7.355	0	% 100
60	M58	Z	12.739	12.739	0	% 100
61	M59	X	7.355	7.355	0	% 100
62	M59	Z	12.739	12.739	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	6.538	6.538	0	% 100
66	M61	Z	11.324	11.324	0	% 100
67	M62	X	4.903	4.903	0	% 100
68	M62	Z	8.493	8.493	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
69	M63	X	6.538	6.538	0	% 100
70	M63	Z	11.324	11.324	0	% 100
71	M64	X	4.903	4.903	0	% 100
72	M64	Z	8.493	8.493	0	% 100
73	MP1A	X	3.882	3.882	0	% 100
74	MP1A	Z	6.723	6.723	0	% 100
75	MP1B	X	3.882	3.882	0	% 100
76	MP1B	Z	6.723	6.723	0	% 100
77	MP1C	X	3.882	3.882	0	% 100
78	MP1C	Z	6.723	6.723	0	% 100
79	MP2A	X	3.882	3.882	0	% 100
80	MP2A	Z	6.723	6.723	0	% 100
81	MP2B	X	4.699	4.699	0	% 100
82	MP2B	Z	8.139	8.139	0	% 100
83	MP2C	X	4.699	4.699	0	% 100
84	MP2C	Z	8.139	8.139	0	% 100
85	MP3A	X	3.882	3.882	0	% 100
86	MP3A	Z	6.723	6.723	0	% 100
87	MP3B	X	3.882	3.882	0	% 100
88	MP3B	Z	6.723	6.723	0	% 100
89	MP3C	X	3.882	3.882	0	% 100
90	MP3C	Z	6.723	6.723	0	% 100
91	MP4A	X	3.882	3.882	0	% 100
92	MP4A	Z	6.723	6.723	0	% 100
93	MP4B	X	3.882	3.882	0	% 100
94	MP4B	Z	6.723	6.723	0	% 100
95	MP4C	X	3.882	3.882	0	% 100
96	MP4C	Z	6.723	6.723	0	% 100
97	MP5A	X	3.882	3.882	0	% 100
98	MP5A	Z	6.723	6.723	0	% 100
99	MP5B	X	3.882	3.882	0	% 100
100	MP5B	Z	6.723	6.723	0	% 100
101	MP5C	X	4.699	4.699	0	% 100
102	MP5C	Z	8.139	8.139	0	% 100
103	OVP	X	3.174	3.174	0	% 100
104	OVP	Z	5.498	5.498	0	% 100
105	M86	X	3.524	3.524	0	% 100
106	M86	Z	6.104	6.104	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	0	0	0	% 100
109	M102	X	3.524	3.524	0	% 100
110	M102	Z	6.104	6.104	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	0	0	0	% 100
113	M106	X	4.318	4.318	0	% 100
114	M106	Z	7.479	7.479	0	% 100
115	M107	X	4.318	4.318	0	% 100
116	M107	Z	7.479	7.479	0	% 100
117	M108	X	5.989	5.989	0	% 100
118	M108	Z	10.373	10.373	0	% 100
119	M109	X	7.222	7.222	0	% 100
120	M109	Z	12.509	12.509	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
121	M110	X	5.989 5.989	0	% 100
122	M110	Z	10.373 10.373	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	0 0	0	% 100
2	OVP2	Z	0 0	0	% 100
3	M2	X	0 0	0	% 100
4	M2	Z	11.581 11.581	0	% 100
5	M3	X	0 0	0	% 100
6	M3	Z	11.441 11.441	0	% 100
7	M4	X	0 0	0	% 100
8	M4	Z	10.896 10.896	0	% 100
9	M5	X	0 0	0	% 100
10	M5	Z	10.896 10.896	0	% 100
11	M6	X	0 0	0	% 100
12	M6	Z	4.903 4.903	0	% 100
13	M7	X	0 0	0	% 100
14	M7	Z	4.903 4.903	0	% 100
15	M8	X	0 0	0	% 100
16	M8	Z	19.613 19.613	0	% 100
17	M9	X	0 0	0	% 100
18	M9	Z	0 0	0	% 100
19	M10	X	0 0	0	% 100
20	M10	Z	3.269 3.269	0	% 100
21	M11	X	0 0	0	% 100
22	M11	Z	0 0	0	% 100
23	M12	X	0 0	0	% 100
24	M12	Z	3.269 3.269	0	% 100
25	M27	X	0 0	0	% 100
26	M27	Z	8.706 8.706	0	% 100
27	M28	X	0 0	0	% 100
28	M28	Z	2.895 2.895	0	% 100
29	M29	X	0 0	0	% 100
30	M29	Z	2.86 2.86	0	% 100
31	M30	X	0 0	0	% 100
32	M30	Z	2.724 2.724	0	% 100
33	M31	X	0 0	0	% 100
34	M31	Z	2.724 2.724	0	% 100
35	M32	X	0 0	0	% 100
36	M32	Z	19.613 19.613	0	% 100
37	M33	X	0 0	0	% 100
38	M33	Z	4.903 4.903	0	% 100
39	M34	X	0 0	0	% 100
40	M34	Z	4.903 4.903	0	% 100
41	M35	X	0 0	0	% 100
42	M35	Z	9.807 9.807	0	% 100
43	M36	X	0 0	0	% 100
44	M36	Z	3.269 3.269	0	% 100
45	M37	X	0 0	0	% 100
46	M37	Z	9.807 9.807	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
47	M38	X	0	0	0	% 100
48	M38	Z	13.076	13.076	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	8.706	8.706	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	2.895	2.895	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	2.86	2.86	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	2.724	2.724	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	2.724	2.724	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	4.903	4.903	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	19.613	19.613	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	4.903	4.903	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	9.807	9.807	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	13.076	13.076	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	9.807	9.807	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	3.269	3.269	0	% 100
73	MP1A	X	0	0	0	% 100
74	MP1A	Z	7.764	7.764	0	% 100
75	MP1B	X	0	0	0	% 100
76	MP1B	Z	7.764	7.764	0	% 100
77	MP1C	X	0	0	0	% 100
78	MP1C	Z	7.764	7.764	0	% 100
79	MP2A	X	0	0	0	% 100
80	MP2A	Z	7.764	7.764	0	% 100
81	MP2B	X	0	0	0	% 100
82	MP2B	Z	9.398	9.398	0	% 100
83	MP2C	X	0	0	0	% 100
84	MP2C	Z	9.398	9.398	0	% 100
85	MP3A	X	0	0	0	% 100
86	MP3A	Z	7.764	7.764	0	% 100
87	MP3B	X	0	0	0	% 100
88	MP3B	Z	7.764	7.764	0	% 100
89	MP3C	X	0	0	0	% 100
90	MP3C	Z	7.764	7.764	0	% 100
91	MP4A	X	0	0	0	% 100
92	MP4A	Z	7.764	7.764	0	% 100
93	MP4B	X	0	0	0	% 100
94	MP4B	Z	7.764	7.764	0	% 100
95	MP4C	X	0	0	0	% 100
96	MP4C	Z	7.764	7.764	0	% 100
97	MP5A	X	0	0	0	% 100
98	MP5A	Z	7.764	7.764	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]	
99	MP5B	X	0	0	0	% 100
100	MP5B	Z	7.764	7.764	0	% 100
101	MP5C	X	0	0	0	% 100
102	MP5C	Z	9.398	9.398	0	% 100
103	OVP	X	0	0	0	% 100
104	OVP	Z	6.349	6.349	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	9.398	9.398	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	2.35	2.35	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	2.35	2.35	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	2.879	2.879	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	11.514	11.514	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	2.879	2.879	0	% 100
117	M108	X	0	0	0	% 100
118	M108	Z	11.156	11.156	0	% 100
119	M109	X	0	0	0	% 100
120	M109	Z	13.622	13.622	0	% 100
121	M110	X	0	0	0	% 100
122	M110	Z	13.622	13.622	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	OVP2	X	-1.451	-1.451	0	% 100
2	OVP2	Z	2.513	2.513	0	% 100
3	M2	X	-4.343	-4.343	0	% 100
4	M2	Z	7.522	7.522	0	% 100
5	M3	X	-4.29	-4.29	0	% 100
6	M3	Z	7.431	7.431	0	% 100
7	M4	X	-4.086	-4.086	0	% 100
8	M4	Z	7.077	7.077	0	% 100
9	M5	X	-4.086	-4.086	0	% 100
10	M5	Z	7.077	7.077	0	% 100
11	M6	X	-7.355	-7.355	0	% 100
12	M6	Z	12.739	12.739	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	-7.355	-7.355	0	% 100
16	M8	Z	12.739	12.739	0	% 100
17	M9	X	-1.634	-1.634	0	% 100
18	M9	Z	2.831	2.831	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	-1.634	-1.634	0	% 100
22	M11	Z	2.831	2.831	0	% 100
23	M12	X	-4.903	-4.903	0	% 100
24	M12	Z	8.493	8.493	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
25	M27	X	-5.804	-5.804	0 % 100
26	M27	Z	10.052	10.052	0 % 100
27	M28	X	0	0	0 % 100
28	M28	Z	0	0	0 % 100
29	M29	X	0	0	0 % 100
30	M29	Z	0	0	0 % 100
31	M30	X	0	0	0 % 100
32	M30	Z	0	0	0 % 100
33	M31	X	0	0	0 % 100
34	M31	Z	0	0	0 % 100
35	M32	X	-7.355	-7.355	0 % 100
36	M32	Z	12.739	12.739	0 % 100
37	M33	X	-7.355	-7.355	0 % 100
38	M33	Z	12.739	12.739	0 % 100
39	M34	X	0	0	0 % 100
40	M34	Z	0	0	0 % 100
41	M35	X	-6.538	-6.538	0 % 100
42	M35	Z	11.324	11.324	0 % 100
43	M36	X	-4.903	-4.903	0 % 100
44	M36	Z	8.493	8.493	0 % 100
45	M37	X	-6.538	-6.538	0 % 100
46	M37	Z	11.324	11.324	0 % 100
47	M38	X	-4.903	-4.903	0 % 100
48	M38	Z	8.493	8.493	0 % 100
49	M53	X	-1.451	-1.451	0 % 100
50	M53	Z	2.513	2.513	0 % 100
51	M54	X	-4.343	-4.343	0 % 100
52	M54	Z	7.522	7.522	0 % 100
53	M55	X	-4.29	-4.29	0 % 100
54	M55	Z	7.431	7.431	0 % 100
55	M56	X	-4.086	-4.086	0 % 100
56	M56	Z	7.077	7.077	0 % 100
57	M57	X	-4.086	-4.086	0 % 100
58	M57	Z	7.077	7.077	0 % 100
59	M58	X	0	0	0 % 100
60	M58	Z	0	0	0 % 100
61	M59	X	-7.355	-7.355	0 % 100
62	M59	Z	12.739	12.739	0 % 100
63	M60	X	-7.355	-7.355	0 % 100
64	M60	Z	12.739	12.739	0 % 100
65	M61	X	-1.634	-1.634	0 % 100
66	M61	Z	2.831	2.831	0 % 100
67	M62	X	-4.903	-4.903	0 % 100
68	M62	Z	8.493	8.493	0 % 100
69	M63	X	-1.634	-1.634	0 % 100
70	M63	Z	2.831	2.831	0 % 100
71	M64	X	0	0	0 % 100
72	M64	Z	0	0	0 % 100
73	MP1A	X	-3.882	-3.882	0 % 100
74	MP1A	Z	6.723	6.723	0 % 100
75	MP1B	X	-3.882	-3.882	0 % 100
76	MP1B	Z	6.723	6.723	0 % 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
77	MP1C	X	-3.882 -3.882	0	% 100
78	MP1C	Z	6.723 6.723	0	% 100
79	MP2A	X	-3.882 -3.882	0	% 100
80	MP2A	Z	6.723 6.723	0	% 100
81	MP2B	X	-4.699 -4.699	0	% 100
82	MP2B	Z	8.139 8.139	0	% 100
83	MP2C	X	-4.699 -4.699	0	% 100
84	MP2C	Z	8.139 8.139	0	% 100
85	MP3A	X	-3.882 -3.882	0	% 100
86	MP3A	Z	6.723 6.723	0	% 100
87	MP3B	X	-3.882 -3.882	0	% 100
88	MP3B	Z	6.723 6.723	0	% 100
89	MP3C	X	-3.882 -3.882	0	% 100
90	MP3C	Z	6.723 6.723	0	% 100
91	MP4A	X	-3.882 -3.882	0	% 100
92	MP4A	Z	6.723 6.723	0	% 100
93	MP4B	X	-3.882 -3.882	0	% 100
94	MP4B	Z	6.723 6.723	0	% 100
95	MP4C	X	-3.882 -3.882	0	% 100
96	MP4C	Z	6.723 6.723	0	% 100
97	MP5A	X	-3.882 -3.882	0	% 100
98	MP5A	Z	6.723 6.723	0	% 100
99	MP5B	X	-3.882 -3.882	0	% 100
100	MP5B	Z	6.723 6.723	0	% 100
101	MP5C	X	-4.699 -4.699	0	% 100
102	MP5C	Z	8.139 8.139	0	% 100
103	OVP	X	-3.174 -3.174	0	% 100
104	OVP	Z	5.498 5.498	0	% 100
105	M86	X	-3.524 -3.524	0	% 100
106	M86	Z	6.104 6.104	0	% 100
107	M94	X	-3.524 -3.524	0	% 100
108	M94	Z	6.104 6.104	0	% 100
109	M102	X	0 0	0	% 100
110	M102	Z	0 0	0	% 100
111	M105	X	-4.318 -4.318	0	% 100
112	M105	Z	7.479 7.479	0	% 100
113	M106	X	-4.318 -4.318	0	% 100
114	M106	Z	7.479 7.479	0	% 100
115	M107	X	0 0	0	% 100
116	M107	Z	0 0	0	% 100
117	M108	X	-5.989 -5.989	0	% 100
118	M108	Z	10.373 10.373	0	% 100
119	M109	X	-5.989 -5.989	0	% 100
120	M109	Z	10.373 10.373	0	% 100
121	M110	X	-7.222 -7.222	0	% 100
122	M110	Z	12.509 12.509	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-7.539 -7.539	0	% 100
2	OVP2	Z	4.353 4.353	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-2.507	-2.507	0	% 100
4	M2	Z	1.448	1.448	0	% 100
5	M3	X	-2.477	-2.477	0	% 100
6	M3	Z	1.43	1.43	0	% 100
7	M4	X	-2.359	-2.359	0	% 100
8	M4	Z	1.362	1.362	0	% 100
9	M5	X	-2.359	-2.359	0	% 100
10	M5	Z	1.362	1.362	0	% 100
11	M6	X	-16.986	-16.986	0	% 100
12	M6	Z	9.807	9.807	0	% 100
13	M7	X	-4.246	-4.246	0	% 100
14	M7	Z	2.452	2.452	0	% 100
15	M8	X	-4.246	-4.246	0	% 100
16	M8	Z	2.452	2.452	0	% 100
17	M9	X	-8.493	-8.493	0	% 100
18	M9	Z	4.903	4.903	0	% 100
19	M10	X	-2.831	-2.831	0	% 100
20	M10	Z	1.634	1.634	0	% 100
21	M11	X	-8.493	-8.493	0	% 100
22	M11	Z	4.903	4.903	0	% 100
23	M12	X	-11.324	-11.324	0	% 100
24	M12	Z	6.538	6.538	0	% 100
25	M27	X	-7.539	-7.539	0	% 100
26	M27	Z	4.353	4.353	0	% 100
27	M28	X	-2.507	-2.507	0	% 100
28	M28	Z	1.448	1.448	0	% 100
29	M29	X	-2.477	-2.477	0	% 100
30	M29	Z	1.43	1.43	0	% 100
31	M30	X	-2.359	-2.359	0	% 100
32	M30	Z	1.362	1.362	0	% 100
33	M31	X	-2.359	-2.359	0	% 100
34	M31	Z	1.362	1.362	0	% 100
35	M32	X	-4.246	-4.246	0	% 100
36	M32	Z	2.452	2.452	0	% 100
37	M33	X	-16.986	-16.986	0	% 100
38	M33	Z	9.807	9.807	0	% 100
39	M34	X	-4.246	-4.246	0	% 100
40	M34	Z	2.452	2.452	0	% 100
41	M35	X	-8.493	-8.493	0	% 100
42	M35	Z	4.903	4.903	0	% 100
43	M36	X	-11.324	-11.324	0	% 100
44	M36	Z	6.538	6.538	0	% 100
45	M37	X	-8.493	-8.493	0	% 100
46	M37	Z	4.903	4.903	0	% 100
47	M38	X	-2.831	-2.831	0	% 100
48	M38	Z	1.634	1.634	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	-10.029	-10.029	0	% 100
52	M54	Z	5.791	5.791	0	% 100
53	M55	X	-9.908	-9.908	0	% 100
54	M55	Z	5.721	5.721	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
55	M56	X	-9.436	-9.436	0	% 100
56	M56	Z	5.448	5.448	0	% 100
57	M57	X	-9.436	-9.436	0	% 100
58	M57	Z	5.448	5.448	0	% 100
59	M58	X	-4.246	-4.246	0	% 100
60	M58	Z	2.452	2.452	0	% 100
61	M59	X	-4.246	-4.246	0	% 100
62	M59	Z	2.452	2.452	0	% 100
63	M60	X	-16.986	-16.986	0	% 100
64	M60	Z	9.807	9.807	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	-2.831	-2.831	0	% 100
68	M62	Z	1.634	1.634	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	-2.831	-2.831	0	% 100
72	M64	Z	1.634	1.634	0	% 100
73	MP1A	X	-6.723	-6.723	0	% 100
74	MP1A	Z	3.882	3.882	0	% 100
75	MP1B	X	-6.723	-6.723	0	% 100
76	MP1B	Z	3.882	3.882	0	% 100
77	MP1C	X	-6.723	-6.723	0	% 100
78	MP1C	Z	3.882	3.882	0	% 100
79	MP2A	X	-6.723	-6.723	0	% 100
80	MP2A	Z	3.882	3.882	0	% 100
81	MP2B	X	-8.139	-8.139	0	% 100
82	MP2B	Z	4.699	4.699	0	% 100
83	MP2C	X	-8.139	-8.139	0	% 100
84	MP2C	Z	4.699	4.699	0	% 100
85	MP3A	X	-6.723	-6.723	0	% 100
86	MP3A	Z	3.882	3.882	0	% 100
87	MP3B	X	-6.723	-6.723	0	% 100
88	MP3B	Z	3.882	3.882	0	% 100
89	MP3C	X	-6.723	-6.723	0	% 100
90	MP3C	Z	3.882	3.882	0	% 100
91	MP4A	X	-6.723	-6.723	0	% 100
92	MP4A	Z	3.882	3.882	0	% 100
93	MP4B	X	-6.723	-6.723	0	% 100
94	MP4B	Z	3.882	3.882	0	% 100
95	MP4C	X	-6.723	-6.723	0	% 100
96	MP4C	Z	3.882	3.882	0	% 100
97	MP5A	X	-6.723	-6.723	0	% 100
98	MP5A	Z	3.882	3.882	0	% 100
99	MP5B	X	-6.723	-6.723	0	% 100
100	MP5B	Z	3.882	3.882	0	% 100
101	MP5C	X	-8.139	-8.139	0	% 100
102	MP5C	Z	4.699	4.699	0	% 100
103	OVP	X	-5.498	-5.498	0	% 100
104	OVP	Z	3.174	3.174	0	% 100
105	M86	X	-2.035	-2.035	0	% 100
106	M86	Z	1.175	1.175	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
107	M94	X	-8.139 -8.139	0	% 100
108	M94	Z	4.699 4.699	0	% 100
109	M102	X	-2.035 -2.035	0	% 100
110	M102	Z	1.175 1.175	0	% 100
111	M105	X	-9.972 -9.972	0	% 100
112	M105	Z	5.757 5.757	0	% 100
113	M106	X	-2.493 -2.493	0	% 100
114	M106	Z	1.439 1.439	0	% 100
115	M107	X	-2.493 -2.493	0	% 100
116	M107	Z	1.439 1.439	0	% 100
117	M108	X	-11.797 -11.797	0	% 100
118	M108	Z	6.811 6.811	0	% 100
119	M109	X	-9.662 -9.662	0	% 100
120	M109	Z	5.578 5.578	0	% 100
121	M110	X	-11.797 -11.797	0	% 100
122	M110	Z	6.811 6.811	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-11.608 -11.608	0	% 100
2	OVP2	Z	0 0	0	% 100
3	M2	X	0 0	0	% 100
4	M2	Z	0 0	0	% 100
5	M3	X	0 0	0	% 100
6	M3	Z	0 0	0	% 100
7	M4	X	0 0	0	% 100
8	M4	Z	0 0	0	% 100
9	M5	X	0 0	0	% 100
10	M5	Z	0 0	0	% 100
11	M6	X	-14.71 -14.71	0	% 100
12	M6	Z	0 0	0	% 100
13	M7	X	-14.71 -14.71	0	% 100
14	M7	Z	0 0	0	% 100
15	M8	X	0 0	0	% 100
16	M8	Z	0 0	0	% 100
17	M9	X	-13.076 -13.076	0	% 100
18	M9	Z	0 0	0	% 100
19	M10	X	-9.807 -9.807	0	% 100
20	M10	Z	0 0	0	% 100
21	M11	X	-13.076 -13.076	0	% 100
22	M11	Z	0 0	0	% 100
23	M12	X	-9.807 -9.807	0	% 100
24	M12	Z	0 0	0	% 100
25	M27	X	-2.902 -2.902	0	% 100
26	M27	Z	0 0	0	% 100
27	M28	X	-8.686 -8.686	0	% 100
28	M28	Z	0 0	0	% 100
29	M29	X	-8.581 -8.581	0	% 100
30	M29	Z	0 0	0	% 100
31	M30	X	-8.172 -8.172	0	% 100
32	M30	Z	0 0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
33	M31	X	-8.172	-8.172	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	0	0	0	% 100
37	M33	X	-14.71	-14.71	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	-14.71	-14.71	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	-3.269	-3.269	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	-9.807	-9.807	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	-3.269	-3.269	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	0	0	0	% 100
49	M53	X	-2.902	-2.902	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	-8.686	-8.686	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	-8.581	-8.581	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	-8.172	-8.172	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	-8.172	-8.172	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	-14.71	-14.71	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	0	0	0	% 100
63	M60	X	-14.71	-14.71	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	-3.269	-3.269	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	0	0	0	% 100
69	M63	X	-3.269	-3.269	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	-9.807	-9.807	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	-7.764	-7.764	0	% 100
74	MP1A	Z	0	0	0	% 100
75	MP1B	X	-7.764	-7.764	0	% 100
76	MP1B	Z	0	0	0	% 100
77	MP1C	X	-7.764	-7.764	0	% 100
78	MP1C	Z	0	0	0	% 100
79	MP2A	X	-7.764	-7.764	0	% 100
80	MP2A	Z	0	0	0	% 100
81	MP2B	X	-9.398	-9.398	0	% 100
82	MP2B	Z	0	0	0	% 100
83	MP2C	X	-9.398	-9.398	0	% 100
84	MP2C	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
85	MP3A	X	-7.764	-7.764	0	% 100
86	MP3A	Z	0	0	0	% 100
87	MP3B	X	-7.764	-7.764	0	% 100
88	MP3B	Z	0	0	0	% 100
89	MP3C	X	-7.764	-7.764	0	% 100
90	MP3C	Z	0	0	0	% 100
91	MP4A	X	-7.764	-7.764	0	% 100
92	MP4A	Z	0	0	0	% 100
93	MP4B	X	-7.764	-7.764	0	% 100
94	MP4B	Z	0	0	0	% 100
95	MP4C	X	-7.764	-7.764	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5A	X	-7.764	-7.764	0	% 100
98	MP5A	Z	0	0	0	% 100
99	MP5B	X	-7.764	-7.764	0	% 100
100	MP5B	Z	0	0	0	% 100
101	MP5C	X	-9.398	-9.398	0	% 100
102	MP5C	Z	0	0	0	% 100
103	OVP	X	-6.349	-6.349	0	% 100
104	OVP	Z	0	0	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	0	0	0	% 100
107	M94	X	-7.049	-7.049	0	% 100
108	M94	Z	0	0	0	% 100
109	M102	X	-7.049	-7.049	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	-8.636	-8.636	0	% 100
112	M105	Z	0	0	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	0	0	0	% 100
115	M107	X	-8.636	-8.636	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	-14.444	-14.444	0	% 100
118	M108	Z	0	0	0	% 100
119	M109	X	-11.978	-11.978	0	% 100
120	M109	Z	0	0	0	% 100
121	M110	X	-11.978	-11.978	0	% 100
122	M110	Z	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-7.539	-7.539	0	% 100
2	OVP2	Z	-4.353	-4.353	0	% 100
3	M2	X	-2.507	-2.507	0	% 100
4	M2	Z	-1.448	-1.448	0	% 100
5	M3	X	-2.477	-2.477	0	% 100
6	M3	Z	-1.43	-1.43	0	% 100
7	M4	X	-2.359	-2.359	0	% 100
8	M4	Z	-1.362	-1.362	0	% 100
9	M5	X	-2.359	-2.359	0	% 100
10	M5	Z	-1.362	-1.362	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
11	M6	X	-4.246	-4.246	0	% 100
12	M6	Z	-2.452	-2.452	0	% 100
13	M7	X	-16.986	-16.986	0	% 100
14	M7	Z	-9.807	-9.807	0	% 100
15	M8	X	-4.246	-4.246	0	% 100
16	M8	Z	-2.452	-2.452	0	% 100
17	M9	X	-8.493	-8.493	0	% 100
18	M9	Z	-4.903	-4.903	0	% 100
19	M10	X	-11.324	-11.324	0	% 100
20	M10	Z	-6.538	-6.538	0	% 100
21	M11	X	-8.493	-8.493	0	% 100
22	M11	Z	-4.903	-4.903	0	% 100
23	M12	X	-2.831	-2.831	0	% 100
24	M12	Z	-1.634	-1.634	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	-10.029	-10.029	0	% 100
28	M28	Z	-5.791	-5.791	0	% 100
29	M29	X	-9.908	-9.908	0	% 100
30	M29	Z	-5.721	-5.721	0	% 100
31	M30	X	-9.436	-9.436	0	% 100
32	M30	Z	-5.448	-5.448	0	% 100
33	M31	X	-9.436	-9.436	0	% 100
34	M31	Z	-5.448	-5.448	0	% 100
35	M32	X	-4.246	-4.246	0	% 100
36	M32	Z	-2.452	-2.452	0	% 100
37	M33	X	-4.246	-4.246	0	% 100
38	M33	Z	-2.452	-2.452	0	% 100
39	M34	X	-16.986	-16.986	0	% 100
40	M34	Z	-9.807	-9.807	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	-2.831	-2.831	0	% 100
44	M36	Z	-1.634	-1.634	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	-2.831	-2.831	0	% 100
48	M38	Z	-1.634	-1.634	0	% 100
49	M53	X	-7.539	-7.539	0	% 100
50	M53	Z	-4.353	-4.353	0	% 100
51	M54	X	-2.507	-2.507	0	% 100
52	M54	Z	-1.448	-1.448	0	% 100
53	M55	X	-2.477	-2.477	0	% 100
54	M55	Z	-1.43	-1.43	0	% 100
55	M56	X	-2.359	-2.359	0	% 100
56	M56	Z	-1.362	-1.362	0	% 100
57	M57	X	-2.359	-2.359	0	% 100
58	M57	Z	-1.362	-1.362	0	% 100
59	M58	X	-16.986	-16.986	0	% 100
60	M58	Z	-9.807	-9.807	0	% 100
61	M59	X	-4.246	-4.246	0	% 100
62	M59	Z	-2.452	-2.452	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
63	M60	X	-4.246	-4.246	0	% 100
64	M60	Z	-2.452	-2.452	0	% 100
65	M61	X	-8.493	-8.493	0	% 100
66	M61	Z	-4.903	-4.903	0	% 100
67	M62	X	-2.831	-2.831	0	% 100
68	M62	Z	-1.634	-1.634	0	% 100
69	M63	X	-8.493	-8.493	0	% 100
70	M63	Z	-4.903	-4.903	0	% 100
71	M64	X	-11.324	-11.324	0	% 100
72	M64	Z	-6.538	-6.538	0	% 100
73	MP1A	X	-6.723	-6.723	0	% 100
74	MP1A	Z	-3.882	-3.882	0	% 100
75	MP1B	X	-6.723	-6.723	0	% 100
76	MP1B	Z	-3.882	-3.882	0	% 100
77	MP1C	X	-6.723	-6.723	0	% 100
78	MP1C	Z	-3.882	-3.882	0	% 100
79	MP2A	X	-6.723	-6.723	0	% 100
80	MP2A	Z	-3.882	-3.882	0	% 100
81	MP2B	X	-8.139	-8.139	0	% 100
82	MP2B	Z	-4.699	-4.699	0	% 100
83	MP2C	X	-8.139	-8.139	0	% 100
84	MP2C	Z	-4.699	-4.699	0	% 100
85	MP3A	X	-6.723	-6.723	0	% 100
86	MP3A	Z	-3.882	-3.882	0	% 100
87	MP3B	X	-6.723	-6.723	0	% 100
88	MP3B	Z	-3.882	-3.882	0	% 100
89	MP3C	X	-6.723	-6.723	0	% 100
90	MP3C	Z	-3.882	-3.882	0	% 100
91	MP4A	X	-6.723	-6.723	0	% 100
92	MP4A	Z	-3.882	-3.882	0	% 100
93	MP4B	X	-6.723	-6.723	0	% 100
94	MP4B	Z	-3.882	-3.882	0	% 100
95	MP4C	X	-6.723	-6.723	0	% 100
96	MP4C	Z	-3.882	-3.882	0	% 100
97	MP5A	X	-6.723	-6.723	0	% 100
98	MP5A	Z	-3.882	-3.882	0	% 100
99	MP5B	X	-6.723	-6.723	0	% 100
100	MP5B	Z	-3.882	-3.882	0	% 100
101	MP5C	X	-8.139	-8.139	0	% 100
102	MP5C	Z	-4.699	-4.699	0	% 100
103	OVP	X	-5.498	-5.498	0	% 100
104	OVP	Z	-3.174	-3.174	0	% 100
105	M86	X	-2.035	-2.035	0	% 100
106	M86	Z	-1.175	-1.175	0	% 100
107	M94	X	-2.035	-2.035	0	% 100
108	M94	Z	-1.175	-1.175	0	% 100
109	M102	X	-8.139	-8.139	0	% 100
110	M102	Z	-4.699	-4.699	0	% 100
111	M105	X	-2.493	-2.493	0	% 100
112	M105	Z	-1.439	-1.439	0	% 100
113	M106	X	-2.493	-2.493	0	% 100
114	M106	Z	-1.439	-1.439	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
115	M107	X	-9.972	-9.972	0	% 100
116	M107	Z	-5.757	-5.757	0	% 100
117	M108	X	-11.797	-11.797	0	% 100
118	M108	Z	-6.811	-6.811	0	% 100
119	M109	X	-11.797	-11.797	0	% 100
120	M109	Z	-6.811	-6.811	0	% 100
121	M110	X	-9.662	-9.662	0	% 100
122	M110	Z	-5.578	-5.578	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-1.451	-1.451	0	% 100
2	OVP2	Z	-2.513	-2.513	0	% 100
3	M2	X	-4.343	-4.343	0	% 100
4	M2	Z	-7.522	-7.522	0	% 100
5	M3	X	-4.29	-4.29	0	% 100
6	M3	Z	-7.431	-7.431	0	% 100
7	M4	X	-4.086	-4.086	0	% 100
8	M4	Z	-7.077	-7.077	0	% 100
9	M5	X	-4.086	-4.086	0	% 100
10	M5	Z	-7.077	-7.077	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	-7.355	-7.355	0	% 100
14	M7	Z	-12.739	-12.739	0	% 100
15	M8	X	-7.355	-7.355	0	% 100
16	M8	Z	-12.739	-12.739	0	% 100
17	M9	X	-1.634	-1.634	0	% 100
18	M9	Z	-2.831	-2.831	0	% 100
19	M10	X	-4.903	-4.903	0	% 100
20	M10	Z	-8.493	-8.493	0	% 100
21	M11	X	-1.634	-1.634	0	% 100
22	M11	Z	-2.831	-2.831	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	-1.451	-1.451	0	% 100
26	M27	Z	-2.513	-2.513	0	% 100
27	M28	X	-4.343	-4.343	0	% 100
28	M28	Z	-7.522	-7.522	0	% 100
29	M29	X	-4.29	-4.29	0	% 100
30	M29	Z	-7.431	-7.431	0	% 100
31	M30	X	-4.086	-4.086	0	% 100
32	M30	Z	-7.077	-7.077	0	% 100
33	M31	X	-4.086	-4.086	0	% 100
34	M31	Z	-7.077	-7.077	0	% 100
35	M32	X	-7.355	-7.355	0	% 100
36	M32	Z	-12.739	-12.739	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	-7.355	-7.355	0	% 100
40	M34	Z	-12.739	-12.739	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
41	M35	X	-1.634	-1.634	0	% 100
42	M35	Z	-2.831	-2.831	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	-1.634	-1.634	0	% 100
46	M37	Z	-2.831	-2.831	0	% 100
47	M38	X	-4.903	-4.903	0	% 100
48	M38	Z	-8.493	-8.493	0	% 100
49	M53	X	-5.804	-5.804	0	% 100
50	M53	Z	-10.052	-10.052	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	-7.355	-7.355	0	% 100
60	M58	Z	-12.739	-12.739	0	% 100
61	M59	X	-7.355	-7.355	0	% 100
62	M59	Z	-12.739	-12.739	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	-6.538	-6.538	0	% 100
66	M61	Z	-11.324	-11.324	0	% 100
67	M62	X	-4.903	-4.903	0	% 100
68	M62	Z	-8.493	-8.493	0	% 100
69	M63	X	-6.538	-6.538	0	% 100
70	M63	Z	-11.324	-11.324	0	% 100
71	M64	X	-4.903	-4.903	0	% 100
72	M64	Z	-8.493	-8.493	0	% 100
73	MP1A	X	-3.882	-3.882	0	% 100
74	MP1A	Z	-6.723	-6.723	0	% 100
75	MP1B	X	-3.882	-3.882	0	% 100
76	MP1B	Z	-6.723	-6.723	0	% 100
77	MP1C	X	-3.882	-3.882	0	% 100
78	MP1C	Z	-6.723	-6.723	0	% 100
79	MP2A	X	-3.882	-3.882	0	% 100
80	MP2A	Z	-6.723	-6.723	0	% 100
81	MP2B	X	-4.699	-4.699	0	% 100
82	MP2B	Z	-8.139	-8.139	0	% 100
83	MP2C	X	-4.699	-4.699	0	% 100
84	MP2C	Z	-8.139	-8.139	0	% 100
85	MP3A	X	-3.882	-3.882	0	% 100
86	MP3A	Z	-6.723	-6.723	0	% 100
87	MP3B	X	-3.882	-3.882	0	% 100
88	MP3B	Z	-6.723	-6.723	0	% 100
89	MP3C	X	-3.882	-3.882	0	% 100
90	MP3C	Z	-6.723	-6.723	0	% 100
91	MP4A	X	-3.882	-3.882	0	% 100
92	MP4A	Z	-6.723	-6.723	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
93	MP4B	X	-3.882	-3.882	0	% 100
94	MP4B	Z	-6.723	-6.723	0	% 100
95	MP4C	X	-3.882	-3.882	0	% 100
96	MP4C	Z	-6.723	-6.723	0	% 100
97	MP5A	X	-3.882	-3.882	0	% 100
98	MP5A	Z	-6.723	-6.723	0	% 100
99	MP5B	X	-3.882	-3.882	0	% 100
100	MP5B	Z	-6.723	-6.723	0	% 100
101	MP5C	X	-4.699	-4.699	0	% 100
102	MP5C	Z	-8.139	-8.139	0	% 100
103	OVP	X	-3.174	-3.174	0	% 100
104	OVP	Z	-5.498	-5.498	0	% 100
105	M86	X	-3.524	-3.524	0	% 100
106	M86	Z	-6.104	-6.104	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	0	0	0	% 100
109	M102	X	-3.524	-3.524	0	% 100
110	M102	Z	-6.104	-6.104	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	0	0	0	% 100
113	M106	X	-4.318	-4.318	0	% 100
114	M106	Z	-7.479	-7.479	0	% 100
115	M107	X	-4.318	-4.318	0	% 100
116	M107	Z	-7.479	-7.479	0	% 100
117	M108	X	-5.989	-5.989	0	% 100
118	M108	Z	-10.373	-10.373	0	% 100
119	M109	X	-7.222	-7.222	0	% 100
120	M109	Z	-12.509	-12.509	0	% 100
121	M110	X	-5.989	-5.989	0	% 100
122	M110	Z	-10.373	-10.373	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	0	0	0	% 100
2	OVP2	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	-3.654	-3.654	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	-3.628	-3.628	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	-3.45	-3.45	0	% 100
9	M5	X	0	0	0	% 100
10	M5	Z	-3.45	-3.45	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	-1.141	-1.141	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	-1.141	-1.141	0	% 100
15	M8	X	0	0	0	% 100
16	M8	Z	-4.634	-4.634	0	% 100
17	M9	X	0	0	0	% 100
18	M9	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
19	M10	X	0	0	0	% 100
20	M10	Z	-.832	-.832	0	% 100
21	M11	X	0	0	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	-.832	-.832	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	-2.744	-2.744	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	-.914	-.914	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	-.907	-.907	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	-.862	-.862	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	-.862	-.862	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	-4.562	-4.562	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	-1.141	-1.141	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	-1.159	-1.159	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	-2.495	-2.495	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	-.832	-.832	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	-2.495	-2.495	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	-3.326	-3.326	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	-2.744	-2.744	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	-.914	-.914	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	-.907	-.907	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	-.862	-.862	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	-.862	-.862	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	-1.141	-1.141	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	-4.562	-4.562	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	-1.159	-1.159	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	-2.495	-2.495	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	-3.326	-3.326	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	-2.495	-2.495	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]	
71	M64	X	0	0	0	% 100
72	M64	Z	-.832	-.832	0	% 100
73	MP1A	X	0	0	0	% 100
74	MP1A	Z	-2.932	-2.932	0	% 100
75	MP1B	X	0	0	0	% 100
76	MP1B	Z	-2.932	-2.932	0	% 100
77	MP1C	X	0	0	0	% 100
78	MP1C	Z	-2.932	-2.932	0	% 100
79	MP2A	X	0	0	0	% 100
80	MP2A	Z	-2.932	-2.932	0	% 100
81	MP2B	X	0	0	0	% 100
82	MP2B	Z	-3.241	-3.241	0	% 100
83	MP2C	X	0	0	0	% 100
84	MP2C	Z	-3.241	-3.241	0	% 100
85	MP3A	X	0	0	0	% 100
86	MP3A	Z	-2.932	-2.932	0	% 100
87	MP3B	X	0	0	0	% 100
88	MP3B	Z	-2.932	-2.932	0	% 100
89	MP3C	X	0	0	0	% 100
90	MP3C	Z	-2.932	-2.932	0	% 100
91	MP4A	X	0	0	0	% 100
92	MP4A	Z	-2.932	-2.932	0	% 100
93	MP4B	X	0	0	0	% 100
94	MP4B	Z	-2.932	-2.932	0	% 100
95	MP4C	X	0	0	0	% 100
96	MP4C	Z	-2.932	-2.932	0	% 100
97	MP5A	X	0	0	0	% 100
98	MP5A	Z	-2.932	-2.932	0	% 100
99	MP5B	X	0	0	0	% 100
100	MP5B	Z	-2.932	-2.932	0	% 100
101	MP5C	X	0	0	0	% 100
102	MP5C	Z	-3.241	-3.241	0	% 100
103	OVP	X	0	0	0	% 100
104	OVP	Z	-2.399	-2.399	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	-3.241	-3.241	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	-.81	-.81	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	-.81	-.81	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	-.803	-.803	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	-3.213	-3.213	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	-.803	-.803	0	% 100
117	M108	X	0	0	0	% 100
118	M108	Z	-2.732	-2.732	0	% 100
119	M109	X	0	0	0	% 100
120	M109	Z	-3.785	-3.785	0	% 100
121	M110	X	0	0	0	% 100
122	M110	Z	-3.785	-3.785	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.457	.457	0	% 100
2	OVP2	Z	-.792	-.792	0	% 100
3	M2	X	1.37	1.37	0	% 100
4	M2	Z	-2.373	-2.373	0	% 100
5	M3	X	1.36	1.36	0	% 100
6	M3	Z	-2.356	-2.356	0	% 100
7	M4	X	1.294	1.294	0	% 100
8	M4	Z	-2.241	-2.241	0	% 100
9	M5	X	1.294	1.294	0	% 100
10	M5	Z	-2.241	-2.241	0	% 100
11	M6	X	1.711	1.711	0	% 100
12	M6	Z	-2.963	-2.963	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	1.738	1.738	0	% 100
16	M8	Z	-3.01	-3.01	0	% 100
17	M9	X	.416	.416	0	% 100
18	M9	Z	-.72	-.72	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	.416	.416	0	% 100
22	M11	Z	-.72	-.72	0	% 100
23	M12	X	1.247	1.247	0	% 100
24	M12	Z	-2.16	-2.16	0	% 100
25	M27	X	1.83	1.83	0	% 100
26	M27	Z	-3.169	-3.169	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	1.711	1.711	0	% 100
36	M32	Z	-2.963	-2.963	0	% 100
37	M33	X	1.711	1.711	0	% 100
38	M33	Z	-2.963	-2.963	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	1.663	1.663	0	% 100
42	M35	Z	-2.881	-2.881	0	% 100
43	M36	X	1.247	1.247	0	% 100
44	M36	Z	-2.16	-2.16	0	% 100
45	M37	X	1.663	1.663	0	% 100
46	M37	Z	-2.881	-2.881	0	% 100
47	M38	X	1.247	1.247	0	% 100
48	M38	Z	-2.16	-2.16	0	% 100
49	M53	X	.457	.457	0	% 100
50	M53	Z	-.792	-.792	0	% 100
51	M54	X	1.37	1.37	0	% 100
52	M54	Z	-2.373	-2.373	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
53	M55	X	1.36	1.36	0	% 100
54	M55	Z	-2.356	-2.356	0	% 100
55	M56	X	1.294	1.294	0	% 100
56	M56	Z	-2.241	-2.241	0	% 100
57	M57	X	1.294	1.294	0	% 100
58	M57	Z	-2.241	-2.241	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	1.711	1.711	0	% 100
62	M59	Z	-2.963	-2.963	0	% 100
63	M60	X	1.738	1.738	0	% 100
64	M60	Z	-3.01	-3.01	0	% 100
65	M61	X	.416	.416	0	% 100
66	M61	Z	-.72	-.72	0	% 100
67	M62	X	1.247	1.247	0	% 100
68	M62	Z	-2.16	-2.16	0	% 100
69	M63	X	.416	.416	0	% 100
70	M63	Z	-.72	-.72	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	1.466	1.466	0	% 100
74	MP1A	Z	-2.54	-2.54	0	% 100
75	MP1B	X	1.466	1.466	0	% 100
76	MP1B	Z	-2.54	-2.54	0	% 100
77	MP1C	X	1.466	1.466	0	% 100
78	MP1C	Z	-2.54	-2.54	0	% 100
79	MP2A	X	1.466	1.466	0	% 100
80	MP2A	Z	-2.54	-2.54	0	% 100
81	MP2B	X	1.621	1.621	0	% 100
82	MP2B	Z	-2.807	-2.807	0	% 100
83	MP2C	X	1.621	1.621	0	% 100
84	MP2C	Z	-2.807	-2.807	0	% 100
85	MP3A	X	1.466	1.466	0	% 100
86	MP3A	Z	-2.54	-2.54	0	% 100
87	MP3B	X	1.466	1.466	0	% 100
88	MP3B	Z	-2.54	-2.54	0	% 100
89	MP3C	X	1.466	1.466	0	% 100
90	MP3C	Z	-2.54	-2.54	0	% 100
91	MP4A	X	1.466	1.466	0	% 100
92	MP4A	Z	-2.54	-2.54	0	% 100
93	MP4B	X	1.466	1.466	0	% 100
94	MP4B	Z	-2.54	-2.54	0	% 100
95	MP4C	X	1.466	1.466	0	% 100
96	MP4C	Z	-2.54	-2.54	0	% 100
97	MP5A	X	1.466	1.466	0	% 100
98	MP5A	Z	-2.54	-2.54	0	% 100
99	MP5B	X	1.466	1.466	0	% 100
100	MP5B	Z	-2.54	-2.54	0	% 100
101	MP5C	X	1.621	1.621	0	% 100
102	MP5C	Z	-2.807	-2.807	0	% 100
103	OVP	X	1.199	1.199	0	% 100
104	OVP	Z	-2.077	-2.077	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
105	M86	X	1.216	1.216	0	% 100
106	M86	Z	-2.105	-2.105	0	% 100
107	M94	X	1.216	1.216	0	% 100
108	M94	Z	-2.105	-2.105	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	1.205	1.205	0	% 100
112	M105	Z	-2.087	-2.087	0	% 100
113	M106	X	1.205	1.205	0	% 100
114	M106	Z	-2.087	-2.087	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	1.541	1.541	0	% 100
118	M108	Z	-2.67	-2.67	0	% 100
119	M109	X	1.541	1.541	0	% 100
120	M109	Z	-2.67	-2.67	0	% 100
121	M110	X	2.068	2.068	0	% 100
122	M110	Z	-3.582	-3.582	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	2.377	2.377	0	% 100
2	OVP2	Z	-1.372	-1.372	0	% 100
3	M2	X	.791	.791	0	% 100
4	M2	Z	-.457	-.457	0	% 100
5	M3	X	.785	.785	0	% 100
6	M3	Z	-.453	-.453	0	% 100
7	M4	X	.747	.747	0	% 100
8	M4	Z	-.431	-.431	0	% 100
9	M5	X	.747	.747	0	% 100
10	M5	Z	-.431	-.431	0	% 100
11	M6	X	3.951	3.951	0	% 100
12	M6	Z	-2.281	-2.281	0	% 100
13	M7	X	.988	.988	0	% 100
14	M7	Z	-.57	-.57	0	% 100
15	M8	X	1.003	1.003	0	% 100
16	M8	Z	-.579	-.579	0	% 100
17	M9	X	2.16	2.16	0	% 100
18	M9	Z	-1.247	-1.247	0	% 100
19	M10	X	.72	.72	0	% 100
20	M10	Z	-.416	-.416	0	% 100
21	M11	X	2.16	2.16	0	% 100
22	M11	Z	-1.247	-1.247	0	% 100
23	M12	X	2.881	2.881	0	% 100
24	M12	Z	-1.663	-1.663	0	% 100
25	M27	X	2.377	2.377	0	% 100
26	M27	Z	-1.372	-1.372	0	% 100
27	M28	X	.791	.791	0	% 100
28	M28	Z	-.457	-.457	0	% 100
29	M29	X	.785	.785	0	% 100
30	M29	Z	-.453	-.453	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
31	M30	X	.747	.747	0	% 100
32	M30	Z	-.431	-.431	0	% 100
33	M31	X	.747	.747	0	% 100
34	M31	Z	-.431	-.431	0	% 100
35	M32	X	.988	.988	0	% 100
36	M32	Z	-.57	-.57	0	% 100
37	M33	X	3.951	3.951	0	% 100
38	M33	Z	-2.281	-2.281	0	% 100
39	M34	X	1.003	1.003	0	% 100
40	M34	Z	-.579	-.579	0	% 100
41	M35	X	2.16	2.16	0	% 100
42	M35	Z	-1.247	-1.247	0	% 100
43	M36	X	2.881	2.881	0	% 100
44	M36	Z	-1.663	-1.663	0	% 100
45	M37	X	2.16	2.16	0	% 100
46	M37	Z	-1.247	-1.247	0	% 100
47	M38	X	.72	.72	0	% 100
48	M38	Z	-.416	-.416	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	3.165	3.165	0	% 100
52	M54	Z	-1.827	-1.827	0	% 100
53	M55	X	3.142	3.142	0	% 100
54	M55	Z	-1.814	-1.814	0	% 100
55	M56	X	2.988	2.988	0	% 100
56	M56	Z	-1.725	-1.725	0	% 100
57	M57	X	2.988	2.988	0	% 100
58	M57	Z	-1.725	-1.725	0	% 100
59	M58	X	.988	.988	0	% 100
60	M58	Z	-.57	-.57	0	% 100
61	M59	X	.988	.988	0	% 100
62	M59	Z	-.57	-.57	0	% 100
63	M60	X	4.014	4.014	0	% 100
64	M60	Z	-2.317	-2.317	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	.72	.72	0	% 100
68	M62	Z	-.416	-.416	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	.72	.72	0	% 100
72	M64	Z	-.416	-.416	0	% 100
73	MP1A	X	2.54	2.54	0	% 100
74	MP1A	Z	-1.466	-1.466	0	% 100
75	MP1B	X	2.54	2.54	0	% 100
76	MP1B	Z	-1.466	-1.466	0	% 100
77	MP1C	X	2.54	2.54	0	% 100
78	MP1C	Z	-1.466	-1.466	0	% 100
79	MP2A	X	2.54	2.54	0	% 100
80	MP2A	Z	-1.466	-1.466	0	% 100
81	MP2B	X	2.807	2.807	0	% 100
82	MP2B	Z	-1.621	-1.621	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
83	MP2C	X	2.807	2.807	0	% 100
84	MP2C	Z	-1.621	-1.621	0	% 100
85	MP3A	X	2.54	2.54	0	% 100
86	MP3A	Z	-1.466	-1.466	0	% 100
87	MP3B	X	2.54	2.54	0	% 100
88	MP3B	Z	-1.466	-1.466	0	% 100
89	MP3C	X	2.54	2.54	0	% 100
90	MP3C	Z	-1.466	-1.466	0	% 100
91	MP4A	X	2.54	2.54	0	% 100
92	MP4A	Z	-1.466	-1.466	0	% 100
93	MP4B	X	2.54	2.54	0	% 100
94	MP4B	Z	-1.466	-1.466	0	% 100
95	MP4C	X	2.54	2.54	0	% 100
96	MP4C	Z	-1.466	-1.466	0	% 100
97	MP5A	X	2.54	2.54	0	% 100
98	MP5A	Z	-1.466	-1.466	0	% 100
99	MP5B	X	2.54	2.54	0	% 100
100	MP5B	Z	-1.466	-1.466	0	% 100
101	MP5C	X	2.807	2.807	0	% 100
102	MP5C	Z	-1.621	-1.621	0	% 100
103	OVP	X	2.077	2.077	0	% 100
104	OVP	Z	-1.199	-1.199	0	% 100
105	M86	X	.702	.702	0	% 100
106	M86	Z	-.405	-.405	0	% 100
107	M94	X	2.807	2.807	0	% 100
108	M94	Z	-1.621	-1.621	0	% 100
109	M102	X	.702	.702	0	% 100
110	M102	Z	-.405	-.405	0	% 100
111	M105	X	2.782	2.782	0	% 100
112	M105	Z	-1.606	-1.606	0	% 100
113	M106	X	.696	.696	0	% 100
114	M106	Z	-.402	-.402	0	% 100
115	M107	X	.696	.696	0	% 100
116	M107	Z	-.402	-.402	0	% 100
117	M108	X	3.278	3.278	0	% 100
118	M108	Z	-1.892	-1.892	0	% 100
119	M109	X	2.366	2.366	0	% 100
120	M109	Z	-1.366	-1.366	0	% 100
121	M110	X	3.278	3.278	0	% 100
122	M110	Z	-1.892	-1.892	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	3.659	3.659	0	% 100
2	OVP2	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	0	0	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
9	M5	X	0	0	0	% 100
10	M5	Z	0	0	0	% 100
11	M6	X	3.422	3.422	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	3.422	3.422	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	0	0	0	% 100
16	M8	Z	0	0	0	% 100
17	M9	X	3.326	3.326	0	% 100
18	M9	Z	0	0	0	% 100
19	M10	X	2.495	2.495	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	3.326	3.326	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	2.495	2.495	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	.915	.915	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	2.741	2.741	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	2.721	2.721	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	2.587	2.587	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	2.587	2.587	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	0	0	0	% 100
37	M33	X	3.422	3.422	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	3.476	3.476	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	.832	.832	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	2.495	2.495	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	.832	.832	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	0	0	0	% 100
49	M53	X	.915	.915	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	2.741	2.741	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	2.721	2.721	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	2.587	2.587	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	2.587	2.587	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	3.422	3.422	0	% 100
60	M58	Z	0	0	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
61	M59	X	0	0	0 % 100
62	M59	Z	0	0	0 % 100
63	M60	X	3.476	3.476	0 % 100
64	M60	Z	0	0	0 % 100
65	M61	X	.832	.832	0 % 100
66	M61	Z	0	0	0 % 100
67	M62	X	0	0	0 % 100
68	M62	Z	0	0	0 % 100
69	M63	X	.832	.832	0 % 100
70	M63	Z	0	0	0 % 100
71	M64	X	2.495	2.495	0 % 100
72	M64	Z	0	0	0 % 100
73	MP1A	X	2.932	2.932	0 % 100
74	MP1A	Z	0	0	0 % 100
75	MP1B	X	2.932	2.932	0 % 100
76	MP1B	Z	0	0	0 % 100
77	MP1C	X	2.932	2.932	0 % 100
78	MP1C	Z	0	0	0 % 100
79	MP2A	X	2.932	2.932	0 % 100
80	MP2A	Z	0	0	0 % 100
81	MP2B	X	3.241	3.241	0 % 100
82	MP2B	Z	0	0	0 % 100
83	MP2C	X	3.241	3.241	0 % 100
84	MP2C	Z	0	0	0 % 100
85	MP3A	X	2.932	2.932	0 % 100
86	MP3A	Z	0	0	0 % 100
87	MP3B	X	2.932	2.932	0 % 100
88	MP3B	Z	0	0	0 % 100
89	MP3C	X	2.932	2.932	0 % 100
90	MP3C	Z	0	0	0 % 100
91	MP4A	X	2.932	2.932	0 % 100
92	MP4A	Z	0	0	0 % 100
93	MP4B	X	2.932	2.932	0 % 100
94	MP4B	Z	0	0	0 % 100
95	MP4C	X	2.932	2.932	0 % 100
96	MP4C	Z	0	0	0 % 100
97	MP5A	X	2.932	2.932	0 % 100
98	MP5A	Z	0	0	0 % 100
99	MP5B	X	2.932	2.932	0 % 100
100	MP5B	Z	0	0	0 % 100
101	MP5C	X	3.241	3.241	0 % 100
102	MP5C	Z	0	0	0 % 100
103	OVP	X	2.399	2.399	0 % 100
104	OVP	Z	0	0	0 % 100
105	M86	X	0	0	0 % 100
106	M86	Z	0	0	0 % 100
107	M94	X	2.431	2.431	0 % 100
108	M94	Z	0	0	0 % 100
109	M102	X	2.431	2.431	0 % 100
110	M102	Z	0	0	0 % 100
111	M105	X	2.41	2.41	0 % 100
112	M105	Z	0	0	0 % 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
113	M106	X	0	0	0	% 100
114	M106	Z	0	0	0	% 100
115	M107	X	2.41	2.41	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	4.136	4.136	0	% 100
118	M108	Z	0	0	0	% 100
119	M109	X	3.083	3.083	0	% 100
120	M109	Z	0	0	0	% 100
121	M110	X	3.083	3.083	0	% 100
122	M110	Z	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	2.377	2.377	0	% 100
2	OVP2	Z	1.372	1.372	0	% 100
3	M2	X	.791	.791	0	% 100
4	M2	Z	.457	.457	0	% 100
5	M3	X	.785	.785	0	% 100
6	M3	Z	.453	.453	0	% 100
7	M4	X	.747	.747	0	% 100
8	M4	Z	.431	.431	0	% 100
9	M5	X	.747	.747	0	% 100
10	M5	Z	.431	.431	0	% 100
11	M6	X	.988	.988	0	% 100
12	M6	Z	.57	.57	0	% 100
13	M7	X	3.951	3.951	0	% 100
14	M7	Z	2.281	2.281	0	% 100
15	M8	X	1.003	1.003	0	% 100
16	M8	Z	.579	.579	0	% 100
17	M9	X	2.16	2.16	0	% 100
18	M9	Z	1.247	1.247	0	% 100
19	M10	X	2.881	2.881	0	% 100
20	M10	Z	1.663	1.663	0	% 100
21	M11	X	2.16	2.16	0	% 100
22	M11	Z	1.247	1.247	0	% 100
23	M12	X	.72	.72	0	% 100
24	M12	Z	.416	.416	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	3.165	3.165	0	% 100
28	M28	Z	1.827	1.827	0	% 100
29	M29	X	3.142	3.142	0	% 100
30	M29	Z	1.814	1.814	0	% 100
31	M30	X	2.988	2.988	0	% 100
32	M30	Z	1.725	1.725	0	% 100
33	M31	X	2.988	2.988	0	% 100
34	M31	Z	1.725	1.725	0	% 100
35	M32	X	.988	.988	0	% 100
36	M32	Z	.57	.57	0	% 100
37	M33	X	.988	.988	0	% 100
38	M33	Z	.57	.57	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
39	M34	X	4.014	4.014	0	% 100
40	M34	Z	2.317	2.317	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	.72	.72	0	% 100
44	M36	Z	.416	.416	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	.72	.72	0	% 100
48	M38	Z	.416	.416	0	% 100
49	M53	X	2.377	2.377	0	% 100
50	M53	Z	1.372	1.372	0	% 100
51	M54	X	.791	.791	0	% 100
52	M54	Z	.457	.457	0	% 100
53	M55	X	.785	.785	0	% 100
54	M55	Z	.453	.453	0	% 100
55	M56	X	.747	.747	0	% 100
56	M56	Z	.431	.431	0	% 100
57	M57	X	.747	.747	0	% 100
58	M57	Z	.431	.431	0	% 100
59	M58	X	3.951	3.951	0	% 100
60	M58	Z	2.281	2.281	0	% 100
61	M59	X	.988	.988	0	% 100
62	M59	Z	.57	.57	0	% 100
63	M60	X	1.003	1.003	0	% 100
64	M60	Z	.579	.579	0	% 100
65	M61	X	2.16	2.16	0	% 100
66	M61	Z	1.247	1.247	0	% 100
67	M62	X	.72	.72	0	% 100
68	M62	Z	.416	.416	0	% 100
69	M63	X	2.16	2.16	0	% 100
70	M63	Z	1.247	1.247	0	% 100
71	M64	X	2.881	2.881	0	% 100
72	M64	Z	1.663	1.663	0	% 100
73	MP1A	X	2.54	2.54	0	% 100
74	MP1A	Z	1.466	1.466	0	% 100
75	MP1B	X	2.54	2.54	0	% 100
76	MP1B	Z	1.466	1.466	0	% 100
77	MP1C	X	2.54	2.54	0	% 100
78	MP1C	Z	1.466	1.466	0	% 100
79	MP2A	X	2.54	2.54	0	% 100
80	MP2A	Z	1.466	1.466	0	% 100
81	MP2B	X	2.807	2.807	0	% 100
82	MP2B	Z	1.621	1.621	0	% 100
83	MP2C	X	2.807	2.807	0	% 100
84	MP2C	Z	1.621	1.621	0	% 100
85	MP3A	X	2.54	2.54	0	% 100
86	MP3A	Z	1.466	1.466	0	% 100
87	MP3B	X	2.54	2.54	0	% 100
88	MP3B	Z	1.466	1.466	0	% 100
89	MP3C	X	2.54	2.54	0	% 100
90	MP3C	Z	1.466	1.466	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
91	MP4A	X	2.54	2.54	0	% 100
92	MP4A	Z	1.466	1.466	0	% 100
93	MP4B	X	2.54	2.54	0	% 100
94	MP4B	Z	1.466	1.466	0	% 100
95	MP4C	X	2.54	2.54	0	% 100
96	MP4C	Z	1.466	1.466	0	% 100
97	MP5A	X	2.54	2.54	0	% 100
98	MP5A	Z	1.466	1.466	0	% 100
99	MP5B	X	2.54	2.54	0	% 100
100	MP5B	Z	1.466	1.466	0	% 100
101	MP5C	X	2.807	2.807	0	% 100
102	MP5C	Z	1.621	1.621	0	% 100
103	OVP	X	2.077	2.077	0	% 100
104	OVP	Z	1.199	1.199	0	% 100
105	M86	X	.702	.702	0	% 100
106	M86	Z	.405	.405	0	% 100
107	M94	X	.702	.702	0	% 100
108	M94	Z	.405	.405	0	% 100
109	M102	X	2.807	2.807	0	% 100
110	M102	Z	1.621	1.621	0	% 100
111	M105	X	.696	.696	0	% 100
112	M105	Z	.402	.402	0	% 100
113	M106	X	.696	.696	0	% 100
114	M106	Z	.402	.402	0	% 100
115	M107	X	2.782	2.782	0	% 100
116	M107	Z	1.606	1.606	0	% 100
117	M108	X	3.278	3.278	0	% 100
118	M108	Z	1.892	1.892	0	% 100
119	M109	X	3.278	3.278	0	% 100
120	M109	Z	1.892	1.892	0	% 100
121	M110	X	2.366	2.366	0	% 100
122	M110	Z	1.366	1.366	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.457	.457	0	% 100
2	OVP2	Z	.792	.792	0	% 100
3	M2	X	1.37	1.37	0	% 100
4	M2	Z	2.373	2.373	0	% 100
5	M3	X	1.36	1.36	0	% 100
6	M3	Z	2.356	2.356	0	% 100
7	M4	X	1.294	1.294	0	% 100
8	M4	Z	2.241	2.241	0	% 100
9	M5	X	1.294	1.294	0	% 100
10	M5	Z	2.241	2.241	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	1.711	1.711	0	% 100
14	M7	Z	2.963	2.963	0	% 100
15	M8	X	1.738	1.738	0	% 100
16	M8	Z	3.01	3.01	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
17	M9	X	.416	.416	0	% 100
18	M9	Z	.72	.72	0	% 100
19	M10	X	1.247	1.247	0	% 100
20	M10	Z	2.16	2.16	0	% 100
21	M11	X	.416	.416	0	% 100
22	M11	Z	.72	.72	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	.457	.457	0	% 100
26	M27	Z	.792	.792	0	% 100
27	M28	X	1.37	1.37	0	% 100
28	M28	Z	2.373	2.373	0	% 100
29	M29	X	1.36	1.36	0	% 100
30	M29	Z	2.356	2.356	0	% 100
31	M30	X	1.294	1.294	0	% 100
32	M30	Z	2.241	2.241	0	% 100
33	M31	X	1.294	1.294	0	% 100
34	M31	Z	2.241	2.241	0	% 100
35	M32	X	1.711	1.711	0	% 100
36	M32	Z	2.963	2.963	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	1.738	1.738	0	% 100
40	M34	Z	3.01	3.01	0	% 100
41	M35	X	.416	.416	0	% 100
42	M35	Z	.72	.72	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	.416	.416	0	% 100
46	M37	Z	.72	.72	0	% 100
47	M38	X	1.247	1.247	0	% 100
48	M38	Z	2.16	2.16	0	% 100
49	M53	X	1.83	1.83	0	% 100
50	M53	Z	3.169	3.169	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	1.711	1.711	0	% 100
60	M58	Z	2.963	2.963	0	% 100
61	M59	X	1.711	1.711	0	% 100
62	M59	Z	2.963	2.963	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	1.663	1.663	0	% 100
66	M61	Z	2.881	2.881	0	% 100
67	M62	X	1.247	1.247	0	% 100
68	M62	Z	2.16	2.16	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
69	M63	X	1.663	1.663	0 % 100
70	M63	Z	2.881	2.881	0 % 100
71	M64	X	1.247	1.247	0 % 100
72	M64	Z	2.16	2.16	0 % 100
73	MP1A	X	1.466	1.466	0 % 100
74	MP1A	Z	2.54	2.54	0 % 100
75	MP1B	X	1.466	1.466	0 % 100
76	MP1B	Z	2.54	2.54	0 % 100
77	MP1C	X	1.466	1.466	0 % 100
78	MP1C	Z	2.54	2.54	0 % 100
79	MP2A	X	1.466	1.466	0 % 100
80	MP2A	Z	2.54	2.54	0 % 100
81	MP2B	X	1.621	1.621	0 % 100
82	MP2B	Z	2.807	2.807	0 % 100
83	MP2C	X	1.621	1.621	0 % 100
84	MP2C	Z	2.807	2.807	0 % 100
85	MP3A	X	1.466	1.466	0 % 100
86	MP3A	Z	2.54	2.54	0 % 100
87	MP3B	X	1.466	1.466	0 % 100
88	MP3B	Z	2.54	2.54	0 % 100
89	MP3C	X	1.466	1.466	0 % 100
90	MP3C	Z	2.54	2.54	0 % 100
91	MP4A	X	1.466	1.466	0 % 100
92	MP4A	Z	2.54	2.54	0 % 100
93	MP4B	X	1.466	1.466	0 % 100
94	MP4B	Z	2.54	2.54	0 % 100
95	MP4C	X	1.466	1.466	0 % 100
96	MP4C	Z	2.54	2.54	0 % 100
97	MP5A	X	1.466	1.466	0 % 100
98	MP5A	Z	2.54	2.54	0 % 100
99	MP5B	X	1.466	1.466	0 % 100
100	MP5B	Z	2.54	2.54	0 % 100
101	MP5C	X	1.621	1.621	0 % 100
102	MP5C	Z	2.807	2.807	0 % 100
103	OVP	X	1.199	1.199	0 % 100
104	OVP	Z	2.077	2.077	0 % 100
105	M86	X	1.216	1.216	0 % 100
106	M86	Z	2.105	2.105	0 % 100
107	M94	X	0	0	0 % 100
108	M94	Z	0	0	0 % 100
109	M102	X	1.216	1.216	0 % 100
110	M102	Z	2.105	2.105	0 % 100
111	M105	X	0	0	0 % 100
112	M105	Z	0	0	0 % 100
113	M106	X	1.205	1.205	0 % 100
114	M106	Z	2.087	2.087	0 % 100
115	M107	X	1.205	1.205	0 % 100
116	M107	Z	2.087	2.087	0 % 100
117	M108	X	1.541	1.541	0 % 100
118	M108	Z	2.67	2.67	0 % 100
119	M109	X	2.068	2.068	0 % 100
120	M109	Z	3.582	3.582	0 % 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
121	M110	X	1.541 1.541	0	% 100
122	M110	Z	2.67 2.67	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	0 0	0	% 100
2	OVP2	Z	0 0	0	% 100
3	M2	X	0 0	0	% 100
4	M2	Z	3.654 3.654	0	% 100
5	M3	X	0 0	0	% 100
6	M3	Z	3.628 3.628	0	% 100
7	M4	X	0 0	0	% 100
8	M4	Z	3.45 3.45	0	% 100
9	M5	X	0 0	0	% 100
10	M5	Z	3.45 3.45	0	% 100
11	M6	X	0 0	0	% 100
12	M6	Z	1.141 1.141	0	% 100
13	M7	X	0 0	0	% 100
14	M7	Z	1.141 1.141	0	% 100
15	M8	X	0 0	0	% 100
16	M8	Z	4.634 4.634	0	% 100
17	M9	X	0 0	0	% 100
18	M9	Z	0 0	0	% 100
19	M10	X	0 0	0	% 100
20	M10	Z	.832 .832	0	% 100
21	M11	X	0 0	0	% 100
22	M11	Z	0 0	0	% 100
23	M12	X	0 0	0	% 100
24	M12	Z	.832 .832	0	% 100
25	M27	X	0 0	0	% 100
26	M27	Z	2.744 2.744	0	% 100
27	M28	X	0 0	0	% 100
28	M28	Z	.914 .914	0	% 100
29	M29	X	0 0	0	% 100
30	M29	Z	.907 .907	0	% 100
31	M30	X	0 0	0	% 100
32	M30	Z	.862 .862	0	% 100
33	M31	X	0 0	0	% 100
34	M31	Z	.862 .862	0	% 100
35	M32	X	0 0	0	% 100
36	M32	Z	4.562 4.562	0	% 100
37	M33	X	0 0	0	% 100
38	M33	Z	1.141 1.141	0	% 100
39	M34	X	0 0	0	% 100
40	M34	Z	1.159 1.159	0	% 100
41	M35	X	0 0	0	% 100
42	M35	Z	2.495 2.495	0	% 100
43	M36	X	0 0	0	% 100
44	M36	Z	.832 .832	0	% 100
45	M37	X	0 0	0	% 100
46	M37	Z	2.495 2.495	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
47	M38	X	0	0	0	% 100
48	M38	Z	3.326	3.326	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	2.744	2.744	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	.914	.914	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	.907	.907	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	.862	.862	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	.862	.862	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	1.141	1.141	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	4.562	4.562	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	1.159	1.159	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	2.495	2.495	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	3.326	3.326	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	2.495	2.495	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	.832	.832	0	% 100
73	MP1A	X	0	0	0	% 100
74	MP1A	Z	2.932	2.932	0	% 100
75	MP1B	X	0	0	0	% 100
76	MP1B	Z	2.932	2.932	0	% 100
77	MP1C	X	0	0	0	% 100
78	MP1C	Z	2.932	2.932	0	% 100
79	MP2A	X	0	0	0	% 100
80	MP2A	Z	2.932	2.932	0	% 100
81	MP2B	X	0	0	0	% 100
82	MP2B	Z	3.241	3.241	0	% 100
83	MP2C	X	0	0	0	% 100
84	MP2C	Z	3.241	3.241	0	% 100
85	MP3A	X	0	0	0	% 100
86	MP3A	Z	2.932	2.932	0	% 100
87	MP3B	X	0	0	0	% 100
88	MP3B	Z	2.932	2.932	0	% 100
89	MP3C	X	0	0	0	% 100
90	MP3C	Z	2.932	2.932	0	% 100
91	MP4A	X	0	0	0	% 100
92	MP4A	Z	2.932	2.932	0	% 100
93	MP4B	X	0	0	0	% 100
94	MP4B	Z	2.932	2.932	0	% 100
95	MP4C	X	0	0	0	% 100
96	MP4C	Z	2.932	2.932	0	% 100
97	MP5A	X	0	0	0	% 100
98	MP5A	Z	2.932	2.932	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
99	MP5B	X	0	0	0	% 100
100	MP5B	Z	2.932	2.932	0	% 100
101	MP5C	X	0	0	0	% 100
102	MP5C	Z	3.241	3.241	0	% 100
103	OVP	X	0	0	0	% 100
104	OVP	Z	2.399	2.399	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	3.241	3.241	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	.81	.81	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	.81	.81	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	.803	.803	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	3.213	3.213	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	.803	.803	0	% 100
117	M108	X	0	0	0	% 100
118	M108	Z	2.732	2.732	0	% 100
119	M109	X	0	0	0	% 100
120	M109	Z	3.785	3.785	0	% 100
121	M110	X	0	0	0	% 100
122	M110	Z	3.785	3.785	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-.457	-.457	0	% 100
2	OVP2	Z	.792	.792	0	% 100
3	M2	X	-1.37	-1.37	0	% 100
4	M2	Z	2.373	2.373	0	% 100
5	M3	X	-1.36	-1.36	0	% 100
6	M3	Z	2.356	2.356	0	% 100
7	M4	X	-1.294	-1.294	0	% 100
8	M4	Z	2.241	2.241	0	% 100
9	M5	X	-1.294	-1.294	0	% 100
10	M5	Z	2.241	2.241	0	% 100
11	M6	X	-1.711	-1.711	0	% 100
12	M6	Z	2.963	2.963	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	-1.738	-1.738	0	% 100
16	M8	Z	3.01	3.01	0	% 100
17	M9	X	-.416	-.416	0	% 100
18	M9	Z	.72	.72	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	-.416	-.416	0	% 100
22	M11	Z	.72	.72	0	% 100
23	M12	X	-1.247	-1.247	0	% 100
24	M12	Z	2.16	2.16	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
25	M27	X	-1.83	-1.83	0	% 100
26	M27	Z	3.169	3.169	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	-1.711	-1.711	0	% 100
36	M32	Z	2.963	2.963	0	% 100
37	M33	X	-1.711	-1.711	0	% 100
38	M33	Z	2.963	2.963	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	-1.663	-1.663	0	% 100
42	M35	Z	2.881	2.881	0	% 100
43	M36	X	-1.247	-1.247	0	% 100
44	M36	Z	2.16	2.16	0	% 100
45	M37	X	-1.663	-1.663	0	% 100
46	M37	Z	2.881	2.881	0	% 100
47	M38	X	-1.247	-1.247	0	% 100
48	M38	Z	2.16	2.16	0	% 100
49	M53	X	-.457	-.457	0	% 100
50	M53	Z	.792	.792	0	% 100
51	M54	X	-1.37	-1.37	0	% 100
52	M54	Z	2.373	2.373	0	% 100
53	M55	X	-1.36	-1.36	0	% 100
54	M55	Z	2.356	2.356	0	% 100
55	M56	X	-1.294	-1.294	0	% 100
56	M56	Z	2.241	2.241	0	% 100
57	M57	X	-1.294	-1.294	0	% 100
58	M57	Z	2.241	2.241	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	-1.711	-1.711	0	% 100
62	M59	Z	2.963	2.963	0	% 100
63	M60	X	-1.738	-1.738	0	% 100
64	M60	Z	3.01	3.01	0	% 100
65	M61	X	-.416	-.416	0	% 100
66	M61	Z	.72	.72	0	% 100
67	M62	X	-1.247	-1.247	0	% 100
68	M62	Z	2.16	2.16	0	% 100
69	M63	X	-.416	-.416	0	% 100
70	M63	Z	.72	.72	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	-1.466	-1.466	0	% 100
74	MP1A	Z	2.54	2.54	0	% 100
75	MP1B	X	-1.466	-1.466	0	% 100
76	MP1B	Z	2.54	2.54	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
77	MP1C	X	-1.466	-1.466	0	% 100
78	MP1C	Z	2.54	2.54	0	% 100
79	MP2A	X	-1.466	-1.466	0	% 100
80	MP2A	Z	2.54	2.54	0	% 100
81	MP2B	X	-1.621	-1.621	0	% 100
82	MP2B	Z	2.807	2.807	0	% 100
83	MP2C	X	-1.621	-1.621	0	% 100
84	MP2C	Z	2.807	2.807	0	% 100
85	MP3A	X	-1.466	-1.466	0	% 100
86	MP3A	Z	2.54	2.54	0	% 100
87	MP3B	X	-1.466	-1.466	0	% 100
88	MP3B	Z	2.54	2.54	0	% 100
89	MP3C	X	-1.466	-1.466	0	% 100
90	MP3C	Z	2.54	2.54	0	% 100
91	MP4A	X	-1.466	-1.466	0	% 100
92	MP4A	Z	2.54	2.54	0	% 100
93	MP4B	X	-1.466	-1.466	0	% 100
94	MP4B	Z	2.54	2.54	0	% 100
95	MP4C	X	-1.466	-1.466	0	% 100
96	MP4C	Z	2.54	2.54	0	% 100
97	MP5A	X	-1.466	-1.466	0	% 100
98	MP5A	Z	2.54	2.54	0	% 100
99	MP5B	X	-1.466	-1.466	0	% 100
100	MP5B	Z	2.54	2.54	0	% 100
101	MP5C	X	-1.621	-1.621	0	% 100
102	MP5C	Z	2.807	2.807	0	% 100
103	OVP	X	-1.199	-1.199	0	% 100
104	OVP	Z	2.077	2.077	0	% 100
105	M86	X	-1.216	-1.216	0	% 100
106	M86	Z	2.105	2.105	0	% 100
107	M94	X	-1.216	-1.216	0	% 100
108	M94	Z	2.105	2.105	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	-1.205	-1.205	0	% 100
112	M105	Z	2.087	2.087	0	% 100
113	M106	X	-1.205	-1.205	0	% 100
114	M106	Z	2.087	2.087	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	-1.541	-1.541	0	% 100
118	M108	Z	2.67	2.67	0	% 100
119	M109	X	-1.541	-1.541	0	% 100
120	M109	Z	2.67	2.67	0	% 100
121	M110	X	-2.068	-2.068	0	% 100
122	M110	Z	3.582	3.582	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-2.377	-2.377	0	% 100
2	OVP2	Z	1.372	1.372	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-.791	-.791	0	% 100
4	M2	Z	.457	.457	0	% 100
5	M3	X	-.785	-.785	0	% 100
6	M3	Z	.453	.453	0	% 100
7	M4	X	-.747	-.747	0	% 100
8	M4	Z	.431	.431	0	% 100
9	M5	X	-.747	-.747	0	% 100
10	M5	Z	.431	.431	0	% 100
11	M6	X	-3.951	-3.951	0	% 100
12	M6	Z	2.281	2.281	0	% 100
13	M7	X	-.988	-.988	0	% 100
14	M7	Z	.57	.57	0	% 100
15	M8	X	-1.003	-1.003	0	% 100
16	M8	Z	.579	.579	0	% 100
17	M9	X	-2.16	-2.16	0	% 100
18	M9	Z	1.247	1.247	0	% 100
19	M10	X	-.72	-.72	0	% 100
20	M10	Z	.416	.416	0	% 100
21	M11	X	-2.16	-2.16	0	% 100
22	M11	Z	1.247	1.247	0	% 100
23	M12	X	-2.881	-2.881	0	% 100
24	M12	Z	1.663	1.663	0	% 100
25	M27	X	-2.377	-2.377	0	% 100
26	M27	Z	1.372	1.372	0	% 100
27	M28	X	-.791	-.791	0	% 100
28	M28	Z	.457	.457	0	% 100
29	M29	X	-.785	-.785	0	% 100
30	M29	Z	.453	.453	0	% 100
31	M30	X	-.747	-.747	0	% 100
32	M30	Z	.431	.431	0	% 100
33	M31	X	-.747	-.747	0	% 100
34	M31	Z	.431	.431	0	% 100
35	M32	X	-.988	-.988	0	% 100
36	M32	Z	.57	.57	0	% 100
37	M33	X	-3.951	-3.951	0	% 100
38	M33	Z	2.281	2.281	0	% 100
39	M34	X	-1.003	-1.003	0	% 100
40	M34	Z	.579	.579	0	% 100
41	M35	X	-2.16	-2.16	0	% 100
42	M35	Z	1.247	1.247	0	% 100
43	M36	X	-2.881	-2.881	0	% 100
44	M36	Z	1.663	1.663	0	% 100
45	M37	X	-2.16	-2.16	0	% 100
46	M37	Z	1.247	1.247	0	% 100
47	M38	X	-.72	-.72	0	% 100
48	M38	Z	.416	.416	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	-3.165	-3.165	0	% 100
52	M54	Z	1.827	1.827	0	% 100
53	M55	X	-3.142	-3.142	0	% 100
54	M55	Z	1.814	1.814	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
55	M56	X	-2.988	-2.988	0	% 100
56	M56	Z	1.725	1.725	0	% 100
57	M57	X	-2.988	-2.988	0	% 100
58	M57	Z	1.725	1.725	0	% 100
59	M58	X	-.988	-.988	0	% 100
60	M58	Z	.57	.57	0	% 100
61	M59	X	-.988	-.988	0	% 100
62	M59	Z	.57	.57	0	% 100
63	M60	X	-4.014	-4.014	0	% 100
64	M60	Z	2.317	2.317	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	-.72	-.72	0	% 100
68	M62	Z	.416	.416	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	-.72	-.72	0	% 100
72	M64	Z	.416	.416	0	% 100
73	MP1A	X	-2.54	-2.54	0	% 100
74	MP1A	Z	1.466	1.466	0	% 100
75	MP1B	X	-2.54	-2.54	0	% 100
76	MP1B	Z	1.466	1.466	0	% 100
77	MP1C	X	-2.54	-2.54	0	% 100
78	MP1C	Z	1.466	1.466	0	% 100
79	MP2A	X	-2.54	-2.54	0	% 100
80	MP2A	Z	1.466	1.466	0	% 100
81	MP2B	X	-2.807	-2.807	0	% 100
82	MP2B	Z	1.621	1.621	0	% 100
83	MP2C	X	-2.807	-2.807	0	% 100
84	MP2C	Z	1.621	1.621	0	% 100
85	MP3A	X	-2.54	-2.54	0	% 100
86	MP3A	Z	1.466	1.466	0	% 100
87	MP3B	X	-2.54	-2.54	0	% 100
88	MP3B	Z	1.466	1.466	0	% 100
89	MP3C	X	-2.54	-2.54	0	% 100
90	MP3C	Z	1.466	1.466	0	% 100
91	MP4A	X	-2.54	-2.54	0	% 100
92	MP4A	Z	1.466	1.466	0	% 100
93	MP4B	X	-2.54	-2.54	0	% 100
94	MP4B	Z	1.466	1.466	0	% 100
95	MP4C	X	-2.54	-2.54	0	% 100
96	MP4C	Z	1.466	1.466	0	% 100
97	MP5A	X	-2.54	-2.54	0	% 100
98	MP5A	Z	1.466	1.466	0	% 100
99	MP5B	X	-2.54	-2.54	0	% 100
100	MP5B	Z	1.466	1.466	0	% 100
101	MP5C	X	-2.807	-2.807	0	% 100
102	MP5C	Z	1.621	1.621	0	% 100
103	OVP	X	-2.077	-2.077	0	% 100
104	OVP	Z	1.199	1.199	0	% 100
105	M86	X	-.702	-.702	0	% 100
106	M86	Z	.405	.405	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
107	M94	X	-2.807 -2.807	0	% 100
108	M94	Z	1.621 1.621	0	% 100
109	M102	X	-.702 -.702	0	% 100
110	M102	Z	.405 .405	0	% 100
111	M105	X	-2.782 -2.782	0	% 100
112	M105	Z	1.606 1.606	0	% 100
113	M106	X	-.696 -.696	0	% 100
114	M106	Z	.402 .402	0	% 100
115	M107	X	-.696 -.696	0	% 100
116	M107	Z	.402 .402	0	% 100
117	M108	X	-3.278 -3.278	0	% 100
118	M108	Z	1.892 1.892	0	% 100
119	M109	X	-2.366 -2.366	0	% 100
120	M109	Z	1.366 1.366	0	% 100
121	M110	X	-3.278 -3.278	0	% 100
122	M110	Z	1.892 1.892	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-3.659 -3.659	0	% 100
2	OVP2	Z	0 0	0	% 100
3	M2	X	0 0	0	% 100
4	M2	Z	0 0	0	% 100
5	M3	X	0 0	0	% 100
6	M3	Z	0 0	0	% 100
7	M4	X	0 0	0	% 100
8	M4	Z	0 0	0	% 100
9	M5	X	0 0	0	% 100
10	M5	Z	0 0	0	% 100
11	M6	X	-3.422 -3.422	0	% 100
12	M6	Z	0 0	0	% 100
13	M7	X	-3.422 -3.422	0	% 100
14	M7	Z	0 0	0	% 100
15	M8	X	0 0	0	% 100
16	M8	Z	0 0	0	% 100
17	M9	X	-3.326 -3.326	0	% 100
18	M9	Z	0 0	0	% 100
19	M10	X	-2.495 -2.495	0	% 100
20	M10	Z	0 0	0	% 100
21	M11	X	-3.326 -3.326	0	% 100
22	M11	Z	0 0	0	% 100
23	M12	X	-2.495 -2.495	0	% 100
24	M12	Z	0 0	0	% 100
25	M27	X	-.915 -.915	0	% 100
26	M27	Z	0 0	0	% 100
27	M28	X	-2.741 -2.741	0	% 100
28	M28	Z	0 0	0	% 100
29	M29	X	-2.721 -2.721	0	% 100
30	M29	Z	0 0	0	% 100
31	M30	X	-2.587 -2.587	0	% 100
32	M30	Z	0 0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
33	M31	X	-2.587	-2.587	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	0	0	0	% 100
37	M33	X	-3.422	-3.422	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	-3.476	-3.476	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	-.832	-.832	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	-2.495	-2.495	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	-.832	-.832	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	0	0	0	% 100
49	M53	X	-.915	-.915	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	-2.741	-2.741	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	-2.721	-2.721	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	-2.587	-2.587	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	-2.587	-2.587	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	-3.422	-3.422	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	0	0	0	% 100
63	M60	X	-3.476	-3.476	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	-.832	-.832	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	0	0	0	% 100
69	M63	X	-.832	-.832	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	-2.495	-2.495	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	-2.932	-2.932	0	% 100
74	MP1A	Z	0	0	0	% 100
75	MP1B	X	-2.932	-2.932	0	% 100
76	MP1B	Z	0	0	0	% 100
77	MP1C	X	-2.932	-2.932	0	% 100
78	MP1C	Z	0	0	0	% 100
79	MP2A	X	-2.932	-2.932	0	% 100
80	MP2A	Z	0	0	0	% 100
81	MP2B	X	-3.241	-3.241	0	% 100
82	MP2B	Z	0	0	0	% 100
83	MP2C	X	-3.241	-3.241	0	% 100
84	MP2C	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
85	MP3A	X	-2.932	-2.932	0	% 100
86	MP3A	Z	0	0	0	% 100
87	MP3B	X	-2.932	-2.932	0	% 100
88	MP3B	Z	0	0	0	% 100
89	MP3C	X	-2.932	-2.932	0	% 100
90	MP3C	Z	0	0	0	% 100
91	MP4A	X	-2.932	-2.932	0	% 100
92	MP4A	Z	0	0	0	% 100
93	MP4B	X	-2.932	-2.932	0	% 100
94	MP4B	Z	0	0	0	% 100
95	MP4C	X	-2.932	-2.932	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5A	X	-2.932	-2.932	0	% 100
98	MP5A	Z	0	0	0	% 100
99	MP5B	X	-2.932	-2.932	0	% 100
100	MP5B	Z	0	0	0	% 100
101	MP5C	X	-3.241	-3.241	0	% 100
102	MP5C	Z	0	0	0	% 100
103	OVP	X	-2.399	-2.399	0	% 100
104	OVP	Z	0	0	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	0	0	0	% 100
107	M94	X	-2.431	-2.431	0	% 100
108	M94	Z	0	0	0	% 100
109	M102	X	-2.431	-2.431	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	-2.41	-2.41	0	% 100
112	M105	Z	0	0	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	0	0	0	% 100
115	M107	X	-2.41	-2.41	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	-4.136	-4.136	0	% 100
118	M108	Z	0	0	0	% 100
119	M109	X	-3.083	-3.083	0	% 100
120	M109	Z	0	0	0	% 100
121	M110	X	-3.083	-3.083	0	% 100
122	M110	Z	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-2.377	-2.377	0	% 100
2	OVP2	Z	-1.372	-1.372	0	% 100
3	M2	X	-.791	-.791	0	% 100
4	M2	Z	-.457	-.457	0	% 100
5	M3	X	-.785	-.785	0	% 100
6	M3	Z	-.453	-.453	0	% 100
7	M4	X	-.747	-.747	0	% 100
8	M4	Z	-.431	-.431	0	% 100
9	M5	X	-.747	-.747	0	% 100
10	M5	Z	-.431	-.431	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
11	M6	X	-.988	-.988	0 % 100
12	M6	Z	-.57	-.57	0 % 100
13	M7	X	-3.951	-3.951	0 % 100
14	M7	Z	-2.281	-2.281	0 % 100
15	M8	X	-1.003	-1.003	0 % 100
16	M8	Z	-.579	-.579	0 % 100
17	M9	X	-2.16	-2.16	0 % 100
18	M9	Z	-1.247	-1.247	0 % 100
19	M10	X	-2.881	-2.881	0 % 100
20	M10	Z	-1.663	-1.663	0 % 100
21	M11	X	-2.16	-2.16	0 % 100
22	M11	Z	-1.247	-1.247	0 % 100
23	M12	X	-.72	-.72	0 % 100
24	M12	Z	-.416	-.416	0 % 100
25	M27	X	0	0	0 % 100
26	M27	Z	0	0	0 % 100
27	M28	X	-3.165	-3.165	0 % 100
28	M28	Z	-1.827	-1.827	0 % 100
29	M29	X	-3.142	-3.142	0 % 100
30	M29	Z	-1.814	-1.814	0 % 100
31	M30	X	-2.988	-2.988	0 % 100
32	M30	Z	-1.725	-1.725	0 % 100
33	M31	X	-2.988	-2.988	0 % 100
34	M31	Z	-1.725	-1.725	0 % 100
35	M32	X	-.988	-.988	0 % 100
36	M32	Z	-.57	-.57	0 % 100
37	M33	X	-.988	-.988	0 % 100
38	M33	Z	-.57	-.57	0 % 100
39	M34	X	-4.014	-4.014	0 % 100
40	M34	Z	-2.317	-2.317	0 % 100
41	M35	X	0	0	0 % 100
42	M35	Z	0	0	0 % 100
43	M36	X	-.72	-.72	0 % 100
44	M36	Z	-.416	-.416	0 % 100
45	M37	X	0	0	0 % 100
46	M37	Z	0	0	0 % 100
47	M38	X	-.72	-.72	0 % 100
48	M38	Z	-.416	-.416	0 % 100
49	M53	X	-2.377	-2.377	0 % 100
50	M53	Z	-1.372	-1.372	0 % 100
51	M54	X	-.791	-.791	0 % 100
52	M54	Z	-.457	-.457	0 % 100
53	M55	X	-.785	-.785	0 % 100
54	M55	Z	-.453	-.453	0 % 100
55	M56	X	-.747	-.747	0 % 100
56	M56	Z	-.431	-.431	0 % 100
57	M57	X	-.747	-.747	0 % 100
58	M57	Z	-.431	-.431	0 % 100
59	M58	X	-3.951	-3.951	0 % 100
60	M58	Z	-2.281	-2.281	0 % 100
61	M59	X	-.988	-.988	0 % 100
62	M59	Z	-.57	-.57	0 % 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
63	M60	X	-1.003	-1.003	0	% 100
64	M60	Z	-.579	-.579	0	% 100
65	M61	X	-2.16	-2.16	0	% 100
66	M61	Z	-1.247	-1.247	0	% 100
67	M62	X	-.72	-.72	0	% 100
68	M62	Z	-.416	-.416	0	% 100
69	M63	X	-2.16	-2.16	0	% 100
70	M63	Z	-1.247	-1.247	0	% 100
71	M64	X	-2.881	-2.881	0	% 100
72	M64	Z	-1.663	-1.663	0	% 100
73	MP1A	X	-2.54	-2.54	0	% 100
74	MP1A	Z	-1.466	-1.466	0	% 100
75	MP1B	X	-2.54	-2.54	0	% 100
76	MP1B	Z	-1.466	-1.466	0	% 100
77	MP1C	X	-2.54	-2.54	0	% 100
78	MP1C	Z	-1.466	-1.466	0	% 100
79	MP2A	X	-2.54	-2.54	0	% 100
80	MP2A	Z	-1.466	-1.466	0	% 100
81	MP2B	X	-2.807	-2.807	0	% 100
82	MP2B	Z	-1.621	-1.621	0	% 100
83	MP2C	X	-2.807	-2.807	0	% 100
84	MP2C	Z	-1.621	-1.621	0	% 100
85	MP3A	X	-2.54	-2.54	0	% 100
86	MP3A	Z	-1.466	-1.466	0	% 100
87	MP3B	X	-2.54	-2.54	0	% 100
88	MP3B	Z	-1.466	-1.466	0	% 100
89	MP3C	X	-2.54	-2.54	0	% 100
90	MP3C	Z	-1.466	-1.466	0	% 100
91	MP4A	X	-2.54	-2.54	0	% 100
92	MP4A	Z	-1.466	-1.466	0	% 100
93	MP4B	X	-2.54	-2.54	0	% 100
94	MP4B	Z	-1.466	-1.466	0	% 100
95	MP4C	X	-2.54	-2.54	0	% 100
96	MP4C	Z	-1.466	-1.466	0	% 100
97	MP5A	X	-2.54	-2.54	0	% 100
98	MP5A	Z	-1.466	-1.466	0	% 100
99	MP5B	X	-2.54	-2.54	0	% 100
100	MP5B	Z	-1.466	-1.466	0	% 100
101	MP5C	X	-2.807	-2.807	0	% 100
102	MP5C	Z	-1.621	-1.621	0	% 100
103	OVP	X	-2.077	-2.077	0	% 100
104	OVP	Z	-1.199	-1.199	0	% 100
105	M86	X	-.702	-.702	0	% 100
106	M86	Z	-.405	-.405	0	% 100
107	M94	X	-.702	-.702	0	% 100
108	M94	Z	-.405	-.405	0	% 100
109	M102	X	-2.807	-2.807	0	% 100
110	M102	Z	-1.621	-1.621	0	% 100
111	M105	X	-.696	-.696	0	% 100
112	M105	Z	-.402	-.402	0	% 100
113	M106	X	-.696	-.696	0	% 100
114	M106	Z	-.402	-.402	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
115	M107	X	-2.782	-2.782	0	% 100
116	M107	Z	-1.606	-1.606	0	% 100
117	M108	X	-3.278	-3.278	0	% 100
118	M108	Z	-1.892	-1.892	0	% 100
119	M109	X	-3.278	-3.278	0	% 100
120	M109	Z	-1.892	-1.892	0	% 100
121	M110	X	-2.366	-2.366	0	% 100
122	M110	Z	-1.366	-1.366	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-.457	-.457	0	% 100
2	OVP2	Z	-.792	-.792	0	% 100
3	M2	X	-1.37	-1.37	0	% 100
4	M2	Z	-2.373	-2.373	0	% 100
5	M3	X	-1.36	-1.36	0	% 100
6	M3	Z	-2.356	-2.356	0	% 100
7	M4	X	-1.294	-1.294	0	% 100
8	M4	Z	-2.241	-2.241	0	% 100
9	M5	X	-1.294	-1.294	0	% 100
10	M5	Z	-2.241	-2.241	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	-1.711	-1.711	0	% 100
14	M7	Z	-2.963	-2.963	0	% 100
15	M8	X	-1.738	-1.738	0	% 100
16	M8	Z	-3.01	-3.01	0	% 100
17	M9	X	-.416	-.416	0	% 100
18	M9	Z	-.72	-.72	0	% 100
19	M10	X	-1.247	-1.247	0	% 100
20	M10	Z	-2.16	-2.16	0	% 100
21	M11	X	-.416	-.416	0	% 100
22	M11	Z	-.72	-.72	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	-.457	-.457	0	% 100
26	M27	Z	-.792	-.792	0	% 100
27	M28	X	-1.37	-1.37	0	% 100
28	M28	Z	-2.373	-2.373	0	% 100
29	M29	X	-1.36	-1.36	0	% 100
30	M29	Z	-2.356	-2.356	0	% 100
31	M30	X	-1.294	-1.294	0	% 100
32	M30	Z	-2.241	-2.241	0	% 100
33	M31	X	-1.294	-1.294	0	% 100
34	M31	Z	-2.241	-2.241	0	% 100
35	M32	X	-1.711	-1.711	0	% 100
36	M32	Z	-2.963	-2.963	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	-1.738	-1.738	0	% 100
40	M34	Z	-3.01	-3.01	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
41	M35	X	-.416	-.416	0 % 100
42	M35	Z	-.72	-.72	0 % 100
43	M36	X	0	0	0 % 100
44	M36	Z	0	0	0 % 100
45	M37	X	-.416	-.416	0 % 100
46	M37	Z	-.72	-.72	0 % 100
47	M38	X	-1.247	-1.247	0 % 100
48	M38	Z	-2.16	-2.16	0 % 100
49	M53	X	-1.83	-1.83	0 % 100
50	M53	Z	-3.169	-3.169	0 % 100
51	M54	X	0	0	0 % 100
52	M54	Z	0	0	0 % 100
53	M55	X	0	0	0 % 100
54	M55	Z	0	0	0 % 100
55	M56	X	0	0	0 % 100
56	M56	Z	0	0	0 % 100
57	M57	X	0	0	0 % 100
58	M57	Z	0	0	0 % 100
59	M58	X	-1.711	-1.711	0 % 100
60	M58	Z	-2.963	-2.963	0 % 100
61	M59	X	-1.711	-1.711	0 % 100
62	M59	Z	-2.963	-2.963	0 % 100
63	M60	X	0	0	0 % 100
64	M60	Z	0	0	0 % 100
65	M61	X	-1.663	-1.663	0 % 100
66	M61	Z	-2.881	-2.881	0 % 100
67	M62	X	-1.247	-1.247	0 % 100
68	M62	Z	-2.16	-2.16	0 % 100
69	M63	X	-1.663	-1.663	0 % 100
70	M63	Z	-2.881	-2.881	0 % 100
71	M64	X	-1.247	-1.247	0 % 100
72	M64	Z	-2.16	-2.16	0 % 100
73	MP1A	X	-1.466	-1.466	0 % 100
74	MP1A	Z	-2.54	-2.54	0 % 100
75	MP1B	X	-1.466	-1.466	0 % 100
76	MP1B	Z	-2.54	-2.54	0 % 100
77	MP1C	X	-1.466	-1.466	0 % 100
78	MP1C	Z	-2.54	-2.54	0 % 100
79	MP2A	X	-1.466	-1.466	0 % 100
80	MP2A	Z	-2.54	-2.54	0 % 100
81	MP2B	X	-1.621	-1.621	0 % 100
82	MP2B	Z	-2.807	-2.807	0 % 100
83	MP2C	X	-1.621	-1.621	0 % 100
84	MP2C	Z	-2.807	-2.807	0 % 100
85	MP3A	X	-1.466	-1.466	0 % 100
86	MP3A	Z	-2.54	-2.54	0 % 100
87	MP3B	X	-1.466	-1.466	0 % 100
88	MP3B	Z	-2.54	-2.54	0 % 100
89	MP3C	X	-1.466	-1.466	0 % 100
90	MP3C	Z	-2.54	-2.54	0 % 100
91	MP4A	X	-1.466	-1.466	0 % 100
92	MP4A	Z	-2.54	-2.54	0 % 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
93	MP4B	X	-1.466 -1.466	0	% 100
94	MP4B	Z	-2.54 -2.54	0	% 100
95	MP4C	X	-1.466 -1.466	0	% 100
96	MP4C	Z	-2.54 -2.54	0	% 100
97	MP5A	X	-1.466 -1.466	0	% 100
98	MP5A	Z	-2.54 -2.54	0	% 100
99	MP5B	X	-1.466 -1.466	0	% 100
100	MP5B	Z	-2.54 -2.54	0	% 100
101	MP5C	X	-1.621 -1.621	0	% 100
102	MP5C	Z	-2.807 -2.807	0	% 100
103	OVP	X	-1.199 -1.199	0	% 100
104	OVP	Z	-2.077 -2.077	0	% 100
105	M86	X	-1.216 -1.216	0	% 100
106	M86	Z	-2.105 -2.105	0	% 100
107	M94	X	0 0	0	% 100
108	M94	Z	0 0	0	% 100
109	M102	X	-1.216 -1.216	0	% 100
110	M102	Z	-2.105 -2.105	0	% 100
111	M105	X	0 0	0	% 100
112	M105	Z	0 0	0	% 100
113	M106	X	-1.205 -1.205	0	% 100
114	M106	Z	-2.087 -2.087	0	% 100
115	M107	X	-1.205 -1.205	0	% 100
116	M107	Z	-2.087 -2.087	0	% 100
117	M108	X	-1.541 -1.541	0	% 100
118	M108	Z	-2.67 -2.67	0	% 100
119	M109	X	-2.068 -2.068	0	% 100
120	M109	Z	-3.582 -3.582	0	% 100
121	M110	X	-1.541 -1.541	0	% 100
122	M110	Z	-2.67 -2.67	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	0 0	0	% 100
2	OVP2	Z	0 0	0	% 100
3	M2	X	0 0	0	% 100
4	M2	Z	-.788 -.788	0	% 100
5	M3	X	0 0	0	% 100
6	M3	Z	-.779 -.779	0	% 100
7	M4	X	0 0	0	% 100
8	M4	Z	-.742 -.742	0	% 100
9	M5	X	0 0	0	% 100
10	M5	Z	-.742 -.742	0	% 100
11	M6	X	0 0	0	% 100
12	M6	Z	-.334 -.334	0	% 100
13	M7	X	0 0	0	% 100
14	M7	Z	-.334 -.334	0	% 100
15	M8	X	0 0	0	% 100
16	M8	Z	-1.335 -1.335	0	% 100
17	M9	X	0 0	0	% 100
18	M9	Z	0 0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
19	M10	X	0	0	0	% 100
20	M10	Z	-.222	-.222	0	% 100
21	M11	X	0	0	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	-.222	-.222	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	-.592	-.592	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	-.197	-.197	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	-.195	-.195	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	-.185	-.185	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	-.185	-.185	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	-1.335	-1.335	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	-.334	-.334	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	-.334	-.334	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	-.667	-.667	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	-.222	-.222	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	-.667	-.667	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	-.89	-.89	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	-.592	-.592	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	-.197	-.197	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	-.195	-.195	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	-.185	-.185	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	-.185	-.185	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	-.334	-.334	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	-1.335	-1.335	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	-.334	-.334	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	-.667	-.667	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	-.89	-.89	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	-.667	-.667	0	% 100



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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
71	M64	X	0	0	% 100
72	M64	Z	-.222	-.222	% 100
73	MP1A	X	0	0	% 100
74	MP1A	Z	-.528	-.528	% 100
75	MP1B	X	0	0	% 100
76	MP1B	Z	-.528	-.528	% 100
77	MP1C	X	0	0	% 100
78	MP1C	Z	-.528	-.528	% 100
79	MP2A	X	0	0	% 100
80	MP2A	Z	-.528	-.528	% 100
81	MP2B	X	0	0	% 100
82	MP2B	Z	-.64	-.64	% 100
83	MP2C	X	0	0	% 100
84	MP2C	Z	-.64	-.64	% 100
85	MP3A	X	0	0	% 100
86	MP3A	Z	-.528	-.528	% 100
87	MP3B	X	0	0	% 100
88	MP3B	Z	-.528	-.528	% 100
89	MP3C	X	0	0	% 100
90	MP3C	Z	-.528	-.528	% 100
91	MP4A	X	0	0	% 100
92	MP4A	Z	-.528	-.528	% 100
93	MP4B	X	0	0	% 100
94	MP4B	Z	-.528	-.528	% 100
95	MP4C	X	0	0	% 100
96	MP4C	Z	-.528	-.528	% 100
97	MP5A	X	0	0	% 100
98	MP5A	Z	-.528	-.528	% 100
99	MP5B	X	0	0	% 100
100	MP5B	Z	-.528	-.528	% 100
101	MP5C	X	0	0	% 100
102	MP5C	Z	-.64	-.64	% 100
103	OVP	X	0	0	% 100
104	OVP	Z	-.432	-.432	% 100
105	M86	X	0	0	% 100
106	M86	Z	-.64	-.64	% 100
107	M94	X	0	0	% 100
108	M94	Z	-.16	-.16	% 100
109	M102	X	0	0	% 100
110	M102	Z	-.16	-.16	% 100
111	M105	X	0	0	% 100
112	M105	Z	-.196	-.196	% 100
113	M106	X	0	0	% 100
114	M106	Z	-.784	-.784	% 100
115	M107	X	0	0	% 100
116	M107	Z	-.196	-.196	% 100
117	M108	X	0	0	% 100
118	M108	Z	-.759	-.759	% 100
119	M109	X	0	0	% 100
120	M109	Z	-.927	-.927	% 100
121	M110	X	0	0	% 100
122	M110	Z	-.927	-.927	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
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Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.099	.099	0	% 100
2	OVP2	Z	-.171	-.171	0	% 100
3	M2	X	.296	.296	0	% 100
4	M2	Z	-.512	-.512	0	% 100
5	M3	X	.292	.292	0	% 100
6	M3	Z	-.506	-.506	0	% 100
7	M4	X	.278	.278	0	% 100
8	M4	Z	-.482	-.482	0	% 100
9	M5	X	.278	.278	0	% 100
10	M5	Z	-.482	-.482	0	% 100
11	M6	X	.501	.501	0	% 100
12	M6	Z	-.867	-.867	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	.501	.501	0	% 100
16	M8	Z	-.867	-.867	0	% 100
17	M9	X	.111	.111	0	% 100
18	M9	Z	-.193	-.193	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	.111	.111	0	% 100
22	M11	Z	-.193	-.193	0	% 100
23	M12	X	.334	.334	0	% 100
24	M12	Z	-.578	-.578	0	% 100
25	M27	X	.395	.395	0	% 100
26	M27	Z	-.684	-.684	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	.501	.501	0	% 100
36	M32	Z	-.867	-.867	0	% 100
37	M33	X	.501	.501	0	% 100
38	M33	Z	-.867	-.867	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	.445	.445	0	% 100
42	M35	Z	-.771	-.771	0	% 100
43	M36	X	.334	.334	0	% 100
44	M36	Z	-.578	-.578	0	% 100
45	M37	X	.445	.445	0	% 100
46	M37	Z	-.771	-.771	0	% 100
47	M38	X	.334	.334	0	% 100
48	M38	Z	-.578	-.578	0	% 100
49	M53	X	.099	.099	0	% 100
50	M53	Z	-.171	-.171	0	% 100
51	M54	X	.296	.296	0	% 100
52	M54	Z	-.512	-.512	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
53	M55	X	.292 .292	0	% 100
54	M55	Z	-.506 -.506	0	% 100
55	M56	X	.278 .278	0	% 100
56	M56	Z	-.482 -.482	0	% 100
57	M57	X	.278 .278	0	% 100
58	M57	Z	-.482 -.482	0	% 100
59	M58	X	0 0	0	% 100
60	M58	Z	0 0	0	% 100
61	M59	X	.501 .501	0	% 100
62	M59	Z	-.867 -.867	0	% 100
63	M60	X	.501 .501	0	% 100
64	M60	Z	-.867 -.867	0	% 100
65	M61	X	.111 .111	0	% 100
66	M61	Z	-.193 -.193	0	% 100
67	M62	X	.334 .334	0	% 100
68	M62	Z	-.578 -.578	0	% 100
69	M63	X	.111 .111	0	% 100
70	M63	Z	-.193 -.193	0	% 100
71	M64	X	0 0	0	% 100
72	M64	Z	0 0	0	% 100
73	MP1A	X	.264 .264	0	% 100
74	MP1A	Z	-.458 -.458	0	% 100
75	MP1B	X	.264 .264	0	% 100
76	MP1B	Z	-.458 -.458	0	% 100
77	MP1C	X	.264 .264	0	% 100
78	MP1C	Z	-.458 -.458	0	% 100
79	MP2A	X	.264 .264	0	% 100
80	MP2A	Z	-.458 -.458	0	% 100
81	MP2B	X	.32 .32	0	% 100
82	MP2B	Z	-.554 -.554	0	% 100
83	MP2C	X	.32 .32	0	% 100
84	MP2C	Z	-.554 -.554	0	% 100
85	MP3A	X	.264 .264	0	% 100
86	MP3A	Z	-.458 -.458	0	% 100
87	MP3B	X	.264 .264	0	% 100
88	MP3B	Z	-.458 -.458	0	% 100
89	MP3C	X	.264 .264	0	% 100
90	MP3C	Z	-.458 -.458	0	% 100
91	MP4A	X	.264 .264	0	% 100
92	MP4A	Z	-.458 -.458	0	% 100
93	MP4B	X	.264 .264	0	% 100
94	MP4B	Z	-.458 -.458	0	% 100
95	MP4C	X	.264 .264	0	% 100
96	MP4C	Z	-.458 -.458	0	% 100
97	MP5A	X	.264 .264	0	% 100
98	MP5A	Z	-.458 -.458	0	% 100
99	MP5B	X	.264 .264	0	% 100
100	MP5B	Z	-.458 -.458	0	% 100
101	MP5C	X	.32 .32	0	% 100
102	MP5C	Z	-.554 -.554	0	% 100
103	OVP	X	.216 .216	0	% 100
104	OVP	Z	-.374 -.374	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
105	M86	X	.24	.24	0	% 100
106	M86	Z	-.415	-.415	0	% 100
107	M94	X	.24	.24	0	% 100
108	M94	Z	-.415	-.415	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	.294	.294	0	% 100
112	M105	Z	-.509	-.509	0	% 100
113	M106	X	.294	.294	0	% 100
114	M106	Z	-.509	-.509	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	.408	.408	0	% 100
118	M108	Z	-.706	-.706	0	% 100
119	M109	X	.408	.408	0	% 100
120	M109	Z	-.706	-.706	0	% 100
121	M110	X	.491	.491	0	% 100
122	M110	Z	-.851	-.851	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.513	.513	0	% 100
2	OVP2	Z	-.296	-.296	0	% 100
3	M2	X	.171	.171	0	% 100
4	M2	Z	-.099	-.099	0	% 100
5	M3	X	.169	.169	0	% 100
6	M3	Z	-.097	-.097	0	% 100
7	M4	X	.161	.161	0	% 100
8	M4	Z	-.093	-.093	0	% 100
9	M5	X	.161	.161	0	% 100
10	M5	Z	-.093	-.093	0	% 100
11	M6	X	1.156	1.156	0	% 100
12	M6	Z	-.667	-.667	0	% 100
13	M7	X	.289	.289	0	% 100
14	M7	Z	-.167	-.167	0	% 100
15	M8	X	.289	.289	0	% 100
16	M8	Z	-.167	-.167	0	% 100
17	M9	X	.578	.578	0	% 100
18	M9	Z	-.334	-.334	0	% 100
19	M10	X	.193	.193	0	% 100
20	M10	Z	-.111	-.111	0	% 100
21	M11	X	.578	.578	0	% 100
22	M11	Z	-.334	-.334	0	% 100
23	M12	X	.771	.771	0	% 100
24	M12	Z	-.445	-.445	0	% 100
25	M27	X	.513	.513	0	% 100
26	M27	Z	-.296	-.296	0	% 100
27	M28	X	.171	.171	0	% 100
28	M28	Z	-.099	-.099	0	% 100
29	M29	X	.169	.169	0	% 100
30	M29	Z	-.097	-.097	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
31	M30	X	.161	.161	0	% 100
32	M30	Z	-.093	-.093	0	% 100
33	M31	X	.161	.161	0	% 100
34	M31	Z	-.093	-.093	0	% 100
35	M32	X	.289	.289	0	% 100
36	M32	Z	-.167	-.167	0	% 100
37	M33	X	1.156	1.156	0	% 100
38	M33	Z	-.667	-.667	0	% 100
39	M34	X	.289	.289	0	% 100
40	M34	Z	-.167	-.167	0	% 100
41	M35	X	.578	.578	0	% 100
42	M35	Z	-.334	-.334	0	% 100
43	M36	X	.771	.771	0	% 100
44	M36	Z	-.445	-.445	0	% 100
45	M37	X	.578	.578	0	% 100
46	M37	Z	-.334	-.334	0	% 100
47	M38	X	.193	.193	0	% 100
48	M38	Z	-.111	-.111	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	.683	.683	0	% 100
52	M54	Z	-.394	-.394	0	% 100
53	M55	X	.674	.674	0	% 100
54	M55	Z	-.389	-.389	0	% 100
55	M56	X	.642	.642	0	% 100
56	M56	Z	-.371	-.371	0	% 100
57	M57	X	.642	.642	0	% 100
58	M57	Z	-.371	-.371	0	% 100
59	M58	X	.289	.289	0	% 100
60	M58	Z	-.167	-.167	0	% 100
61	M59	X	.289	.289	0	% 100
62	M59	Z	-.167	-.167	0	% 100
63	M60	X	1.156	1.156	0	% 100
64	M60	Z	-.667	-.667	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	.193	.193	0	% 100
68	M62	Z	-.111	-.111	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	.193	.193	0	% 100
72	M64	Z	-.111	-.111	0	% 100
73	MP1A	X	.458	.458	0	% 100
74	MP1A	Z	-.264	-.264	0	% 100
75	MP1B	X	.458	.458	0	% 100
76	MP1B	Z	-.264	-.264	0	% 100
77	MP1C	X	.458	.458	0	% 100
78	MP1C	Z	-.264	-.264	0	% 100
79	MP2A	X	.458	.458	0	% 100
80	MP2A	Z	-.264	-.264	0	% 100
81	MP2B	X	.554	.554	0	% 100
82	MP2B	Z	-.32	-.32	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
83	MP2C	X	.554 .554	0	% 100
84	MP2C	Z	-.32 -.32	0	% 100
85	MP3A	X	.458 .458	0	% 100
86	MP3A	Z	-.264 -.264	0	% 100
87	MP3B	X	.458 .458	0	% 100
88	MP3B	Z	-.264 -.264	0	% 100
89	MP3C	X	.458 .458	0	% 100
90	MP3C	Z	-.264 -.264	0	% 100
91	MP4A	X	.458 .458	0	% 100
92	MP4A	Z	-.264 -.264	0	% 100
93	MP4B	X	.458 .458	0	% 100
94	MP4B	Z	-.264 -.264	0	% 100
95	MP4C	X	.458 .458	0	% 100
96	MP4C	Z	-.264 -.264	0	% 100
97	MP5A	X	.458 .458	0	% 100
98	MP5A	Z	-.264 -.264	0	% 100
99	MP5B	X	.458 .458	0	% 100
100	MP5B	Z	-.264 -.264	0	% 100
101	MP5C	X	.554 .554	0	% 100
102	MP5C	Z	-.32 -.32	0	% 100
103	OVP	X	.374 .374	0	% 100
104	OVP	Z	-.216 -.216	0	% 100
105	M86	X	.138 .138	0	% 100
106	M86	Z	-.08 -.08	0	% 100
107	M94	X	.554 .554	0	% 100
108	M94	Z	-.32 -.32	0	% 100
109	M102	X	.138 .138	0	% 100
110	M102	Z	-.08 -.08	0	% 100
111	M105	X	.679 .679	0	% 100
112	M105	Z	-.392 -.392	0	% 100
113	M106	X	.17 .17	0	% 100
114	M106	Z	-.098 -.098	0	% 100
115	M107	X	.17 .17	0	% 100
116	M107	Z	-.098 -.098	0	% 100
117	M108	X	.803 .803	0	% 100
118	M108	Z	-.464 -.464	0	% 100
119	M109	X	.657 .657	0	% 100
120	M109	Z	-.38 -.38	0	% 100
121	M110	X	.803 .803	0	% 100
122	M110	Z	-.464 -.464	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.79 .79	0	% 100
2	OVP2	Z	0 0	0	% 100
3	M2	X	0 0	0	% 100
4	M2	Z	0 0	0	% 100
5	M3	X	0 0	0	% 100
6	M3	Z	0 0	0	% 100
7	M4	X	0 0	0	% 100
8	M4	Z	0 0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
9	M5	X	0	0	0	% 100
10	M5	Z	0	0	0	% 100
11	M6	X	1.001	1.001	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	1.001	1.001	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	0	0	0	% 100
16	M8	Z	0	0	0	% 100
17	M9	X	.89	.89	0	% 100
18	M9	Z	0	0	0	% 100
19	M10	X	.667	.667	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	.89	.89	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	.667	.667	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	.197	.197	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	.591	.591	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	.584	.584	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	.556	.556	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	.556	.556	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	0	0	0	% 100
37	M33	X	1.001	1.001	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	1.001	1.001	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	.222	.222	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	.667	.667	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	.222	.222	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	0	0	0	% 100
49	M53	X	.197	.197	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	.591	.591	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	.584	.584	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	.556	.556	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	.556	.556	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	1.001	1.001	0	% 100
60	M58	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
61	M59	X	0	0	0	% 100
62	M59	Z	0	0	0	% 100
63	M60	X	1.001	1.001	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	.222	.222	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	0	0	0	% 100
69	M63	X	.222	.222	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	.667	.667	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	.528	.528	0	% 100
74	MP1A	Z	0	0	0	% 100
75	MP1B	X	.528	.528	0	% 100
76	MP1B	Z	0	0	0	% 100
77	MP1C	X	.528	.528	0	% 100
78	MP1C	Z	0	0	0	% 100
79	MP2A	X	.528	.528	0	% 100
80	MP2A	Z	0	0	0	% 100
81	MP2B	X	.64	.64	0	% 100
82	MP2B	Z	0	0	0	% 100
83	MP2C	X	.64	.64	0	% 100
84	MP2C	Z	0	0	0	% 100
85	MP3A	X	.528	.528	0	% 100
86	MP3A	Z	0	0	0	% 100
87	MP3B	X	.528	.528	0	% 100
88	MP3B	Z	0	0	0	% 100
89	MP3C	X	.528	.528	0	% 100
90	MP3C	Z	0	0	0	% 100
91	MP4A	X	.528	.528	0	% 100
92	MP4A	Z	0	0	0	% 100
93	MP4B	X	.528	.528	0	% 100
94	MP4B	Z	0	0	0	% 100
95	MP4C	X	.528	.528	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5A	X	.528	.528	0	% 100
98	MP5A	Z	0	0	0	% 100
99	MP5B	X	.528	.528	0	% 100
100	MP5B	Z	0	0	0	% 100
101	MP5C	X	.64	.64	0	% 100
102	MP5C	Z	0	0	0	% 100
103	OVP	X	.432	.432	0	% 100
104	OVP	Z	0	0	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	0	0	0	% 100
107	M94	X	.48	.48	0	% 100
108	M94	Z	0	0	0	% 100
109	M102	X	.48	.48	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	.588	.588	0	% 100
112	M105	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
113	M106	X	0	0	0	% 100
114	M106	Z	0	0	0	% 100
115	M107	X	.588	.588	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	.983	.983	0	% 100
118	M108	Z	0	0	0	% 100
119	M109	X	.815	.815	0	% 100
120	M109	Z	0	0	0	% 100
121	M110	X	.815	.815	0	% 100
122	M110	Z	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.513	.513	0	% 100
2	OVP2	Z	.296	.296	0	% 100
3	M2	X	.171	.171	0	% 100
4	M2	Z	.099	.099	0	% 100
5	M3	X	.169	.169	0	% 100
6	M3	Z	.097	.097	0	% 100
7	M4	X	.161	.161	0	% 100
8	M4	Z	.093	.093	0	% 100
9	M5	X	.161	.161	0	% 100
10	M5	Z	.093	.093	0	% 100
11	M6	X	.289	.289	0	% 100
12	M6	Z	.167	.167	0	% 100
13	M7	X	1.156	1.156	0	% 100
14	M7	Z	.667	.667	0	% 100
15	M8	X	.289	.289	0	% 100
16	M8	Z	.167	.167	0	% 100
17	M9	X	.578	.578	0	% 100
18	M9	Z	.334	.334	0	% 100
19	M10	X	.771	.771	0	% 100
20	M10	Z	.445	.445	0	% 100
21	M11	X	.578	.578	0	% 100
22	M11	Z	.334	.334	0	% 100
23	M12	X	.193	.193	0	% 100
24	M12	Z	.111	.111	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	0	0	0	% 100
27	M28	X	.683	.683	0	% 100
28	M28	Z	.394	.394	0	% 100
29	M29	X	.674	.674	0	% 100
30	M29	Z	.389	.389	0	% 100
31	M30	X	.642	.642	0	% 100
32	M30	Z	.371	.371	0	% 100
33	M31	X	.642	.642	0	% 100
34	M31	Z	.371	.371	0	% 100
35	M32	X	.289	.289	0	% 100
36	M32	Z	.167	.167	0	% 100
37	M33	X	.289	.289	0	% 100
38	M33	Z	.167	.167	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
39	M34	X	1.156 1.156	0	% 100
40	M34	Z	.667 .667	0	% 100
41	M35	X	0 0	0	% 100
42	M35	Z	0 0	0	% 100
43	M36	X	.193 .193	0	% 100
44	M36	Z	.111 .111	0	% 100
45	M37	X	0 0	0	% 100
46	M37	Z	0 0	0	% 100
47	M38	X	.193 .193	0	% 100
48	M38	Z	.111 .111	0	% 100
49	M53	X	.513 .513	0	% 100
50	M53	Z	.296 .296	0	% 100
51	M54	X	.171 .171	0	% 100
52	M54	Z	.099 .099	0	% 100
53	M55	X	.169 .169	0	% 100
54	M55	Z	.097 .097	0	% 100
55	M56	X	.161 .161	0	% 100
56	M56	Z	.093 .093	0	% 100
57	M57	X	.161 .161	0	% 100
58	M57	Z	.093 .093	0	% 100
59	M58	X	1.156 1.156	0	% 100
60	M58	Z	.667 .667	0	% 100
61	M59	X	.289 .289	0	% 100
62	M59	Z	.167 .167	0	% 100
63	M60	X	.289 .289	0	% 100
64	M60	Z	.167 .167	0	% 100
65	M61	X	.578 .578	0	% 100
66	M61	Z	.334 .334	0	% 100
67	M62	X	.193 .193	0	% 100
68	M62	Z	.111 .111	0	% 100
69	M63	X	.578 .578	0	% 100
70	M63	Z	.334 .334	0	% 100
71	M64	X	.771 .771	0	% 100
72	M64	Z	.445 .445	0	% 100
73	MP1A	X	.458 .458	0	% 100
74	MP1A	Z	.264 .264	0	% 100
75	MP1B	X	.458 .458	0	% 100
76	MP1B	Z	.264 .264	0	% 100
77	MP1C	X	.458 .458	0	% 100
78	MP1C	Z	.264 .264	0	% 100
79	MP2A	X	.458 .458	0	% 100
80	MP2A	Z	.264 .264	0	% 100
81	MP2B	X	.554 .554	0	% 100
82	MP2B	Z	.32 .32	0	% 100
83	MP2C	X	.554 .554	0	% 100
84	MP2C	Z	.32 .32	0	% 100
85	MP3A	X	.458 .458	0	% 100
86	MP3A	Z	.264 .264	0	% 100
87	MP3B	X	.458 .458	0	% 100
88	MP3B	Z	.264 .264	0	% 100
89	MP3C	X	.458 .458	0	% 100
90	MP3C	Z	.264 .264	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
91	MP4A	X	.458	.458	0	% 100
92	MP4A	Z	.264	.264	0	% 100
93	MP4B	X	.458	.458	0	% 100
94	MP4B	Z	.264	.264	0	% 100
95	MP4C	X	.458	.458	0	% 100
96	MP4C	Z	.264	.264	0	% 100
97	MP5A	X	.458	.458	0	% 100
98	MP5A	Z	.264	.264	0	% 100
99	MP5B	X	.458	.458	0	% 100
100	MP5B	Z	.264	.264	0	% 100
101	MP5C	X	.554	.554	0	% 100
102	MP5C	Z	.32	.32	0	% 100
103	OVP	X	.374	.374	0	% 100
104	OVP	Z	.216	.216	0	% 100
105	M86	X	.138	.138	0	% 100
106	M86	Z	.08	.08	0	% 100
107	M94	X	.138	.138	0	% 100
108	M94	Z	.08	.08	0	% 100
109	M102	X	.554	.554	0	% 100
110	M102	Z	.32	.32	0	% 100
111	M105	X	.17	.17	0	% 100
112	M105	Z	.098	.098	0	% 100
113	M106	X	.17	.17	0	% 100
114	M106	Z	.098	.098	0	% 100
115	M107	X	.679	.679	0	% 100
116	M107	Z	.392	.392	0	% 100
117	M108	X	.803	.803	0	% 100
118	M108	Z	.464	.464	0	% 100
119	M109	X	.803	.803	0	% 100
120	M109	Z	.464	.464	0	% 100
121	M110	X	.657	.657	0	% 100
122	M110	Z	.38	.38	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	.099	.099	0	% 100
2	OVP2	Z	.171	.171	0	% 100
3	M2	X	.296	.296	0	% 100
4	M2	Z	.512	.512	0	% 100
5	M3	X	.292	.292	0	% 100
6	M3	Z	.506	.506	0	% 100
7	M4	X	.278	.278	0	% 100
8	M4	Z	.482	.482	0	% 100
9	M5	X	.278	.278	0	% 100
10	M5	Z	.482	.482	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	.501	.501	0	% 100
14	M7	Z	.867	.867	0	% 100
15	M8	X	.501	.501	0	% 100
16	M8	Z	.867	.867	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
17	M9	X	.111	.111	0	% 100
18	M9	Z	.193	.193	0	% 100
19	M10	X	.334	.334	0	% 100
20	M10	Z	.578	.578	0	% 100
21	M11	X	.111	.111	0	% 100
22	M11	Z	.193	.193	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	.099	.099	0	% 100
26	M27	Z	.171	.171	0	% 100
27	M28	X	.296	.296	0	% 100
28	M28	Z	.512	.512	0	% 100
29	M29	X	.292	.292	0	% 100
30	M29	Z	.506	.506	0	% 100
31	M30	X	.278	.278	0	% 100
32	M30	Z	.482	.482	0	% 100
33	M31	X	.278	.278	0	% 100
34	M31	Z	.482	.482	0	% 100
35	M32	X	.501	.501	0	% 100
36	M32	Z	.867	.867	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	.501	.501	0	% 100
40	M34	Z	.867	.867	0	% 100
41	M35	X	.111	.111	0	% 100
42	M35	Z	.193	.193	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	.111	.111	0	% 100
46	M37	Z	.193	.193	0	% 100
47	M38	X	.334	.334	0	% 100
48	M38	Z	.578	.578	0	% 100
49	M53	X	.395	.395	0	% 100
50	M53	Z	.684	.684	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	.501	.501	0	% 100
60	M58	Z	.867	.867	0	% 100
61	M59	X	.501	.501	0	% 100
62	M59	Z	.867	.867	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	.445	.445	0	% 100
66	M61	Z	.771	.771	0	% 100
67	M62	X	.334	.334	0	% 100
68	M62	Z	.578	.578	0	% 100



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

Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
69	M63	X	.445	.445	0 % 100
70	M63	Z	.771	.771	0 % 100
71	M64	X	.334	.334	0 % 100
72	M64	Z	.578	.578	0 % 100
73	MP1A	X	.264	.264	0 % 100
74	MP1A	Z	.458	.458	0 % 100
75	MP1B	X	.264	.264	0 % 100
76	MP1B	Z	.458	.458	0 % 100
77	MP1C	X	.264	.264	0 % 100
78	MP1C	Z	.458	.458	0 % 100
79	MP2A	X	.264	.264	0 % 100
80	MP2A	Z	.458	.458	0 % 100
81	MP2B	X	.32	.32	0 % 100
82	MP2B	Z	.554	.554	0 % 100
83	MP2C	X	.32	.32	0 % 100
84	MP2C	Z	.554	.554	0 % 100
85	MP3A	X	.264	.264	0 % 100
86	MP3A	Z	.458	.458	0 % 100
87	MP3B	X	.264	.264	0 % 100
88	MP3B	Z	.458	.458	0 % 100
89	MP3C	X	.264	.264	0 % 100
90	MP3C	Z	.458	.458	0 % 100
91	MP4A	X	.264	.264	0 % 100
92	MP4A	Z	.458	.458	0 % 100
93	MP4B	X	.264	.264	0 % 100
94	MP4B	Z	.458	.458	0 % 100
95	MP4C	X	.264	.264	0 % 100
96	MP4C	Z	.458	.458	0 % 100
97	MP5A	X	.264	.264	0 % 100
98	MP5A	Z	.458	.458	0 % 100
99	MP5B	X	.264	.264	0 % 100
100	MP5B	Z	.458	.458	0 % 100
101	MP5C	X	.32	.32	0 % 100
102	MP5C	Z	.554	.554	0 % 100
103	OVP	X	.216	.216	0 % 100
104	OVP	Z	.374	.374	0 % 100
105	M86	X	.24	.24	0 % 100
106	M86	Z	.415	.415	0 % 100
107	M94	X	0	0	0 % 100
108	M94	Z	0	0	0 % 100
109	M102	X	.24	.24	0 % 100
110	M102	Z	.415	.415	0 % 100
111	M105	X	0	0	0 % 100
112	M105	Z	0	0	0 % 100
113	M106	X	.294	.294	0 % 100
114	M106	Z	.509	.509	0 % 100
115	M107	X	.294	.294	0 % 100
116	M107	Z	.509	.509	0 % 100
117	M108	X	.408	.408	0 % 100
118	M108	Z	.706	.706	0 % 100
119	M109	X	.491	.491	0 % 100
120	M109	Z	.851	.851	0 % 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
121	M110	X	.408	.408	0	% 100
122	M110	Z	.706	.706	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	0	0	0	% 100
2	OVP2	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	.788	.788	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	.779	.779	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	.742	.742	0	% 100
9	M5	X	0	0	0	% 100
10	M5	Z	.742	.742	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	.334	.334	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	.334	.334	0	% 100
15	M8	X	0	0	0	% 100
16	M8	Z	1.335	1.335	0	% 100
17	M9	X	0	0	0	% 100
18	M9	Z	0	0	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	.222	.222	0	% 100
21	M11	X	0	0	0	% 100
22	M11	Z	0	0	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	.222	.222	0	% 100
25	M27	X	0	0	0	% 100
26	M27	Z	.592	.592	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	.197	.197	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	.195	.195	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	.185	.185	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	.185	.185	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	1.335	1.335	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	.334	.334	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	.334	.334	0	% 100
41	M35	X	0	0	0	% 100
42	M35	Z	.667	.667	0	% 100
43	M36	X	0	0	0	% 100
44	M36	Z	.222	.222	0	% 100
45	M37	X	0	0	0	% 100
46	M37	Z	.667	.667	0	% 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
47	M38	X	0	0	0	% 100
48	M38	Z	.89	.89	0	% 100
49	M53	X	0	0	0	% 100
50	M53	Z	.592	.592	0	% 100
51	M54	X	0	0	0	% 100
52	M54	Z	.197	.197	0	% 100
53	M55	X	0	0	0	% 100
54	M55	Z	.195	.195	0	% 100
55	M56	X	0	0	0	% 100
56	M56	Z	.185	.185	0	% 100
57	M57	X	0	0	0	% 100
58	M57	Z	.185	.185	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	.334	.334	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	1.335	1.335	0	% 100
63	M60	X	0	0	0	% 100
64	M60	Z	.334	.334	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	.667	.667	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	.89	.89	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	.667	.667	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	.222	.222	0	% 100
73	MP1A	X	0	0	0	% 100
74	MP1A	Z	.528	.528	0	% 100
75	MP1B	X	0	0	0	% 100
76	MP1B	Z	.528	.528	0	% 100
77	MP1C	X	0	0	0	% 100
78	MP1C	Z	.528	.528	0	% 100
79	MP2A	X	0	0	0	% 100
80	MP2A	Z	.528	.528	0	% 100
81	MP2B	X	0	0	0	% 100
82	MP2B	Z	.64	.64	0	% 100
83	MP2C	X	0	0	0	% 100
84	MP2C	Z	.64	.64	0	% 100
85	MP3A	X	0	0	0	% 100
86	MP3A	Z	.528	.528	0	% 100
87	MP3B	X	0	0	0	% 100
88	MP3B	Z	.528	.528	0	% 100
89	MP3C	X	0	0	0	% 100
90	MP3C	Z	.528	.528	0	% 100
91	MP4A	X	0	0	0	% 100
92	MP4A	Z	.528	.528	0	% 100
93	MP4B	X	0	0	0	% 100
94	MP4B	Z	.528	.528	0	% 100
95	MP4C	X	0	0	0	% 100
96	MP4C	Z	.528	.528	0	% 100
97	MP5A	X	0	0	0	% 100
98	MP5A	Z	.528	.528	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]	
99	MP5B	X	0	0	0	% 100
100	MP5B	Z	.528	.528	0	% 100
101	MP5C	X	0	0	0	% 100
102	MP5C	Z	.64	.64	0	% 100
103	OVP	X	0	0	0	% 100
104	OVP	Z	.432	.432	0	% 100
105	M86	X	0	0	0	% 100
106	M86	Z	.64	.64	0	% 100
107	M94	X	0	0	0	% 100
108	M94	Z	.16	.16	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	.16	.16	0	% 100
111	M105	X	0	0	0	% 100
112	M105	Z	.196	.196	0	% 100
113	M106	X	0	0	0	% 100
114	M106	Z	.784	.784	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	.196	.196	0	% 100
117	M108	X	0	0	0	% 100
118	M108	Z	.759	.759	0	% 100
119	M109	X	0	0	0	% 100
120	M109	Z	.927	.927	0	% 100
121	M110	X	0	0	0	% 100
122	M110	Z	.927	.927	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]	
1	OVP2	X	-.099	-.099	0	% 100
2	OVP2	Z	.171	.171	0	% 100
3	M2	X	-.296	-.296	0	% 100
4	M2	Z	.512	.512	0	% 100
5	M3	X	-.292	-.292	0	% 100
6	M3	Z	.506	.506	0	% 100
7	M4	X	-.278	-.278	0	% 100
8	M4	Z	.482	.482	0	% 100
9	M5	X	-.278	-.278	0	% 100
10	M5	Z	.482	.482	0	% 100
11	M6	X	-.501	-.501	0	% 100
12	M6	Z	.867	.867	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	0	0	0	% 100
15	M8	X	-.501	-.501	0	% 100
16	M8	Z	.867	.867	0	% 100
17	M9	X	-.111	-.111	0	% 100
18	M9	Z	.193	.193	0	% 100
19	M10	X	0	0	0	% 100
20	M10	Z	0	0	0	% 100
21	M11	X	-.111	-.111	0	% 100
22	M11	Z	.193	.193	0	% 100
23	M12	X	-.334	-.334	0	% 100
24	M12	Z	.578	.578	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
25	M27	X	-.395	-.395	0	% 100
26	M27	Z	.684	.684	0	% 100
27	M28	X	0	0	0	% 100
28	M28	Z	0	0	0	% 100
29	M29	X	0	0	0	% 100
30	M29	Z	0	0	0	% 100
31	M30	X	0	0	0	% 100
32	M30	Z	0	0	0	% 100
33	M31	X	0	0	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	-.501	-.501	0	% 100
36	M32	Z	.867	.867	0	% 100
37	M33	X	-.501	-.501	0	% 100
38	M33	Z	.867	.867	0	% 100
39	M34	X	0	0	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	-.445	-.445	0	% 100
42	M35	Z	.771	.771	0	% 100
43	M36	X	-.334	-.334	0	% 100
44	M36	Z	.578	.578	0	% 100
45	M37	X	-.445	-.445	0	% 100
46	M37	Z	.771	.771	0	% 100
47	M38	X	-.334	-.334	0	% 100
48	M38	Z	.578	.578	0	% 100
49	M53	X	-.099	-.099	0	% 100
50	M53	Z	.171	.171	0	% 100
51	M54	X	-.296	-.296	0	% 100
52	M54	Z	.512	.512	0	% 100
53	M55	X	-.292	-.292	0	% 100
54	M55	Z	.506	.506	0	% 100
55	M56	X	-.278	-.278	0	% 100
56	M56	Z	.482	.482	0	% 100
57	M57	X	-.278	-.278	0	% 100
58	M57	Z	.482	.482	0	% 100
59	M58	X	0	0	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	-.501	-.501	0	% 100
62	M59	Z	.867	.867	0	% 100
63	M60	X	-.501	-.501	0	% 100
64	M60	Z	.867	.867	0	% 100
65	M61	X	-.111	-.111	0	% 100
66	M61	Z	.193	.193	0	% 100
67	M62	X	-.334	-.334	0	% 100
68	M62	Z	.578	.578	0	% 100
69	M63	X	-.111	-.111	0	% 100
70	M63	Z	.193	.193	0	% 100
71	M64	X	0	0	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	-.264	-.264	0	% 100
74	MP1A	Z	.458	.458	0	% 100
75	MP1B	X	-.264	-.264	0	% 100
76	MP1B	Z	.458	.458	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
77	MP1C	X	-.264	-.264	0	% 100
78	MP1C	Z	.458	.458	0	% 100
79	MP2A	X	-.264	-.264	0	% 100
80	MP2A	Z	.458	.458	0	% 100
81	MP2B	X	-.32	-.32	0	% 100
82	MP2B	Z	.554	.554	0	% 100
83	MP2C	X	-.32	-.32	0	% 100
84	MP2C	Z	.554	.554	0	% 100
85	MP3A	X	-.264	-.264	0	% 100
86	MP3A	Z	.458	.458	0	% 100
87	MP3B	X	-.264	-.264	0	% 100
88	MP3B	Z	.458	.458	0	% 100
89	MP3C	X	-.264	-.264	0	% 100
90	MP3C	Z	.458	.458	0	% 100
91	MP4A	X	-.264	-.264	0	% 100
92	MP4A	Z	.458	.458	0	% 100
93	MP4B	X	-.264	-.264	0	% 100
94	MP4B	Z	.458	.458	0	% 100
95	MP4C	X	-.264	-.264	0	% 100
96	MP4C	Z	.458	.458	0	% 100
97	MP5A	X	-.264	-.264	0	% 100
98	MP5A	Z	.458	.458	0	% 100
99	MP5B	X	-.264	-.264	0	% 100
100	MP5B	Z	.458	.458	0	% 100
101	MP5C	X	-.32	-.32	0	% 100
102	MP5C	Z	.554	.554	0	% 100
103	OVP	X	-.216	-.216	0	% 100
104	OVP	Z	.374	.374	0	% 100
105	M86	X	-.24	-.24	0	% 100
106	M86	Z	.415	.415	0	% 100
107	M94	X	-.24	-.24	0	% 100
108	M94	Z	.415	.415	0	% 100
109	M102	X	0	0	0	% 100
110	M102	Z	0	0	0	% 100
111	M105	X	-.294	-.294	0	% 100
112	M105	Z	.509	.509	0	% 100
113	M106	X	-.294	-.294	0	% 100
114	M106	Z	.509	.509	0	% 100
115	M107	X	0	0	0	% 100
116	M107	Z	0	0	0	% 100
117	M108	X	-.408	-.408	0	% 100
118	M108	Z	.706	.706	0	% 100
119	M109	X	-.408	-.408	0	% 100
120	M109	Z	.706	.706	0	% 100
121	M110	X	-.491	-.491	0	% 100
122	M110	Z	.851	.851	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-.513	-.513	0	% 100
2	OVP2	Z	.296	.296	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-.171	-.171	0	%100
4	M2	Z	.099	.099	0	%100
5	M3	X	-.169	-.169	0	%100
6	M3	Z	.097	.097	0	%100
7	M4	X	-.161	-.161	0	%100
8	M4	Z	.093	.093	0	%100
9	M5	X	-.161	-.161	0	%100
10	M5	Z	.093	.093	0	%100
11	M6	X	-1.156	-1.156	0	%100
12	M6	Z	.667	.667	0	%100
13	M7	X	-.289	-.289	0	%100
14	M7	Z	.167	.167	0	%100
15	M8	X	-.289	-.289	0	%100
16	M8	Z	.167	.167	0	%100
17	M9	X	-.578	-.578	0	%100
18	M9	Z	.334	.334	0	%100
19	M10	X	-.193	-.193	0	%100
20	M10	Z	.111	.111	0	%100
21	M11	X	-.578	-.578	0	%100
22	M11	Z	.334	.334	0	%100
23	M12	X	-.771	-.771	0	%100
24	M12	Z	.445	.445	0	%100
25	M27	X	-.513	-.513	0	%100
26	M27	Z	.296	.296	0	%100
27	M28	X	-.171	-.171	0	%100
28	M28	Z	.099	.099	0	%100
29	M29	X	-.169	-.169	0	%100
30	M29	Z	.097	.097	0	%100
31	M30	X	-.161	-.161	0	%100
32	M30	Z	.093	.093	0	%100
33	M31	X	-.161	-.161	0	%100
34	M31	Z	.093	.093	0	%100
35	M32	X	-.289	-.289	0	%100
36	M32	Z	.167	.167	0	%100
37	M33	X	-1.156	-1.156	0	%100
38	M33	Z	.667	.667	0	%100
39	M34	X	-.289	-.289	0	%100
40	M34	Z	.167	.167	0	%100
41	M35	X	-.578	-.578	0	%100
42	M35	Z	.334	.334	0	%100
43	M36	X	-.771	-.771	0	%100
44	M36	Z	.445	.445	0	%100
45	M37	X	-.578	-.578	0	%100
46	M37	Z	.334	.334	0	%100
47	M38	X	-.193	-.193	0	%100
48	M38	Z	.111	.111	0	%100
49	M53	X	0	0	0	%100
50	M53	Z	0	0	0	%100
51	M54	X	-.683	-.683	0	%100
52	M54	Z	.394	.394	0	%100
53	M55	X	-.674	-.674	0	%100
54	M55	Z	.389	.389	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
55	M56	X	-.642	-.642	0	% 100
56	M56	Z	.371	.371	0	% 100
57	M57	X	-.642	-.642	0	% 100
58	M57	Z	.371	.371	0	% 100
59	M58	X	-.289	-.289	0	% 100
60	M58	Z	.167	.167	0	% 100
61	M59	X	-.289	-.289	0	% 100
62	M59	Z	.167	.167	0	% 100
63	M60	X	-1.156	-1.156	0	% 100
64	M60	Z	.667	.667	0	% 100
65	M61	X	0	0	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	-.193	-.193	0	% 100
68	M62	Z	.111	.111	0	% 100
69	M63	X	0	0	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	-.193	-.193	0	% 100
72	M64	Z	.111	.111	0	% 100
73	MP1A	X	-.458	-.458	0	% 100
74	MP1A	Z	.264	.264	0	% 100
75	MP1B	X	-.458	-.458	0	% 100
76	MP1B	Z	.264	.264	0	% 100
77	MP1C	X	-.458	-.458	0	% 100
78	MP1C	Z	.264	.264	0	% 100
79	MP2A	X	-.458	-.458	0	% 100
80	MP2A	Z	.264	.264	0	% 100
81	MP2B	X	-.554	-.554	0	% 100
82	MP2B	Z	.32	.32	0	% 100
83	MP2C	X	-.554	-.554	0	% 100
84	MP2C	Z	.32	.32	0	% 100
85	MP3A	X	-.458	-.458	0	% 100
86	MP3A	Z	.264	.264	0	% 100
87	MP3B	X	-.458	-.458	0	% 100
88	MP3B	Z	.264	.264	0	% 100
89	MP3C	X	-.458	-.458	0	% 100
90	MP3C	Z	.264	.264	0	% 100
91	MP4A	X	-.458	-.458	0	% 100
92	MP4A	Z	.264	.264	0	% 100
93	MP4B	X	-.458	-.458	0	% 100
94	MP4B	Z	.264	.264	0	% 100
95	MP4C	X	-.458	-.458	0	% 100
96	MP4C	Z	.264	.264	0	% 100
97	MP5A	X	-.458	-.458	0	% 100
98	MP5A	Z	.264	.264	0	% 100
99	MP5B	X	-.458	-.458	0	% 100
100	MP5B	Z	.264	.264	0	% 100
101	MP5C	X	-.554	-.554	0	% 100
102	MP5C	Z	.32	.32	0	% 100
103	OVP	X	-.374	-.374	0	% 100
104	OVP	Z	.216	.216	0	% 100
105	M86	X	-.138	-.138	0	% 100
106	M86	Z	.08	.08	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
107	M94	X	-.554	-.554	0 % 100
108	M94	Z	.32	.32	0 % 100
109	M102	X	-.138	-.138	0 % 100
110	M102	Z	.08	.08	0 % 100
111	M105	X	-.679	-.679	0 % 100
112	M105	Z	.392	.392	0 % 100
113	M106	X	-.17	-.17	0 % 100
114	M106	Z	.098	.098	0 % 100
115	M107	X	-.17	-.17	0 % 100
116	M107	Z	.098	.098	0 % 100
117	M108	X	-.803	-.803	0 % 100
118	M108	Z	.464	.464	0 % 100
119	M109	X	-.657	-.657	0 % 100
120	M109	Z	.38	.38	0 % 100
121	M110	X	-.803	-.803	0 % 100
122	M110	Z	.464	.464	0 % 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-.79	-.79	0 % 100
2	OVP2	Z	0	0	0 % 100
3	M2	X	0	0	0 % 100
4	M2	Z	0	0	0 % 100
5	M3	X	0	0	0 % 100
6	M3	Z	0	0	0 % 100
7	M4	X	0	0	0 % 100
8	M4	Z	0	0	0 % 100
9	M5	X	0	0	0 % 100
10	M5	Z	0	0	0 % 100
11	M6	X	-1.001	-1.001	0 % 100
12	M6	Z	0	0	0 % 100
13	M7	X	-1.001	-1.001	0 % 100
14	M7	Z	0	0	0 % 100
15	M8	X	0	0	0 % 100
16	M8	Z	0	0	0 % 100
17	M9	X	-.89	-.89	0 % 100
18	M9	Z	0	0	0 % 100
19	M10	X	-.667	-.667	0 % 100
20	M10	Z	0	0	0 % 100
21	M11	X	-.89	-.89	0 % 100
22	M11	Z	0	0	0 % 100
23	M12	X	-.667	-.667	0 % 100
24	M12	Z	0	0	0 % 100
25	M27	X	-.197	-.197	0 % 100
26	M27	Z	0	0	0 % 100
27	M28	X	-.591	-.591	0 % 100
28	M28	Z	0	0	0 % 100
29	M29	X	-.584	-.584	0 % 100
30	M29	Z	0	0	0 % 100
31	M30	X	-.556	-.556	0 % 100
32	M30	Z	0	0	0 % 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
33	M31	X	-.556	-.556	0	% 100
34	M31	Z	0	0	0	% 100
35	M32	X	0	0	0	% 100
36	M32	Z	0	0	0	% 100
37	M33	X	-1.001	-1.001	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	-1.001	-1.001	0	% 100
40	M34	Z	0	0	0	% 100
41	M35	X	-.222	-.222	0	% 100
42	M35	Z	0	0	0	% 100
43	M36	X	-.667	-.667	0	% 100
44	M36	Z	0	0	0	% 100
45	M37	X	-.222	-.222	0	% 100
46	M37	Z	0	0	0	% 100
47	M38	X	0	0	0	% 100
48	M38	Z	0	0	0	% 100
49	M53	X	-.197	-.197	0	% 100
50	M53	Z	0	0	0	% 100
51	M54	X	-.591	-.591	0	% 100
52	M54	Z	0	0	0	% 100
53	M55	X	-.584	-.584	0	% 100
54	M55	Z	0	0	0	% 100
55	M56	X	-.556	-.556	0	% 100
56	M56	Z	0	0	0	% 100
57	M57	X	-.556	-.556	0	% 100
58	M57	Z	0	0	0	% 100
59	M58	X	-1.001	-1.001	0	% 100
60	M58	Z	0	0	0	% 100
61	M59	X	0	0	0	% 100
62	M59	Z	0	0	0	% 100
63	M60	X	-1.001	-1.001	0	% 100
64	M60	Z	0	0	0	% 100
65	M61	X	-.222	-.222	0	% 100
66	M61	Z	0	0	0	% 100
67	M62	X	0	0	0	% 100
68	M62	Z	0	0	0	% 100
69	M63	X	-.222	-.222	0	% 100
70	M63	Z	0	0	0	% 100
71	M64	X	-.667	-.667	0	% 100
72	M64	Z	0	0	0	% 100
73	MP1A	X	-.528	-.528	0	% 100
74	MP1A	Z	0	0	0	% 100
75	MP1B	X	-.528	-.528	0	% 100
76	MP1B	Z	0	0	0	% 100
77	MP1C	X	-.528	-.528	0	% 100
78	MP1C	Z	0	0	0	% 100
79	MP2A	X	-.528	-.528	0	% 100
80	MP2A	Z	0	0	0	% 100
81	MP2B	X	-.64	-.64	0	% 100
82	MP2B	Z	0	0	0	% 100
83	MP2C	X	-.64	-.64	0	% 100
84	MP2C	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
85	MP3A	X	-.528	-.528	0 % 100
86	MP3A	Z	0	0	0 % 100
87	MP3B	X	-.528	-.528	0 % 100
88	MP3B	Z	0	0	0 % 100
89	MP3C	X	-.528	-.528	0 % 100
90	MP3C	Z	0	0	0 % 100
91	MP4A	X	-.528	-.528	0 % 100
92	MP4A	Z	0	0	0 % 100
93	MP4B	X	-.528	-.528	0 % 100
94	MP4B	Z	0	0	0 % 100
95	MP4C	X	-.528	-.528	0 % 100
96	MP4C	Z	0	0	0 % 100
97	MP5A	X	-.528	-.528	0 % 100
98	MP5A	Z	0	0	0 % 100
99	MP5B	X	-.528	-.528	0 % 100
100	MP5B	Z	0	0	0 % 100
101	MP5C	X	-.64	-.64	0 % 100
102	MP5C	Z	0	0	0 % 100
103	OVP	X	-.432	-.432	0 % 100
104	OVP	Z	0	0	0 % 100
105	M86	X	0	0	0 % 100
106	M86	Z	0	0	0 % 100
107	M94	X	-.48	-.48	0 % 100
108	M94	Z	0	0	0 % 100
109	M102	X	-.48	-.48	0 % 100
110	M102	Z	0	0	0 % 100
111	M105	X	-.588	-.588	0 % 100
112	M105	Z	0	0	0 % 100
113	M106	X	0	0	0 % 100
114	M106	Z	0	0	0 % 100
115	M107	X	-.588	-.588	0 % 100
116	M107	Z	0	0	0 % 100
117	M108	X	-.983	-.983	0 % 100
118	M108	Z	0	0	0 % 100
119	M109	X	-.815	-.815	0 % 100
120	M109	Z	0	0	0 % 100
121	M110	X	-.815	-.815	0 % 100
122	M110	Z	0	0	0 % 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-.513	-.513	0 % 100
2	OVP2	Z	-.296	-.296	0 % 100
3	M2	X	-.171	-.171	0 % 100
4	M2	Z	-.099	-.099	0 % 100
5	M3	X	-.169	-.169	0 % 100
6	M3	Z	-.097	-.097	0 % 100
7	M4	X	-.161	-.161	0 % 100
8	M4	Z	-.093	-.093	0 % 100
9	M5	X	-.161	-.161	0 % 100
10	M5	Z	-.093	-.093	0 % 100



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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
11	M6	X	-.289	-.289	0 % 100
12	M6	Z	-.167	-.167	0 % 100
13	M7	X	-1.156	-1.156	0 % 100
14	M7	Z	-.667	-.667	0 % 100
15	M8	X	-.289	-.289	0 % 100
16	M8	Z	-.167	-.167	0 % 100
17	M9	X	-.578	-.578	0 % 100
18	M9	Z	-.334	-.334	0 % 100
19	M10	X	-.771	-.771	0 % 100
20	M10	Z	-.445	-.445	0 % 100
21	M11	X	-.578	-.578	0 % 100
22	M11	Z	-.334	-.334	0 % 100
23	M12	X	-.193	-.193	0 % 100
24	M12	Z	-.111	-.111	0 % 100
25	M27	X	0	0	0 % 100
26	M27	Z	0	0	0 % 100
27	M28	X	-.683	-.683	0 % 100
28	M28	Z	-.394	-.394	0 % 100
29	M29	X	-.674	-.674	0 % 100
30	M29	Z	-.389	-.389	0 % 100
31	M30	X	-.642	-.642	0 % 100
32	M30	Z	-.371	-.371	0 % 100
33	M31	X	-.642	-.642	0 % 100
34	M31	Z	-.371	-.371	0 % 100
35	M32	X	-.289	-.289	0 % 100
36	M32	Z	-.167	-.167	0 % 100
37	M33	X	-.289	-.289	0 % 100
38	M33	Z	-.167	-.167	0 % 100
39	M34	X	-1.156	-1.156	0 % 100
40	M34	Z	-.667	-.667	0 % 100
41	M35	X	0	0	0 % 100
42	M35	Z	0	0	0 % 100
43	M36	X	-.193	-.193	0 % 100
44	M36	Z	-.111	-.111	0 % 100
45	M37	X	0	0	0 % 100
46	M37	Z	0	0	0 % 100
47	M38	X	-.193	-.193	0 % 100
48	M38	Z	-.111	-.111	0 % 100
49	M53	X	-.513	-.513	0 % 100
50	M53	Z	-.296	-.296	0 % 100
51	M54	X	-.171	-.171	0 % 100
52	M54	Z	-.099	-.099	0 % 100
53	M55	X	-.169	-.169	0 % 100
54	M55	Z	-.097	-.097	0 % 100
55	M56	X	-.161	-.161	0 % 100
56	M56	Z	-.093	-.093	0 % 100
57	M57	X	-.161	-.161	0 % 100
58	M57	Z	-.093	-.093	0 % 100
59	M58	X	-1.156	-1.156	0 % 100
60	M58	Z	-.667	-.667	0 % 100
61	M59	X	-.289	-.289	0 % 100
62	M59	Z	-.167	-.167	0 % 100



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

July 22, 2021
 7:12 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
63	M60	X	-.289	-.289	0	% 100
64	M60	Z	-.167	-.167	0	% 100
65	M61	X	-.578	-.578	0	% 100
66	M61	Z	-.334	-.334	0	% 100
67	M62	X	-.193	-.193	0	% 100
68	M62	Z	-.111	-.111	0	% 100
69	M63	X	-.578	-.578	0	% 100
70	M63	Z	-.334	-.334	0	% 100
71	M64	X	-.771	-.771	0	% 100
72	M64	Z	-.445	-.445	0	% 100
73	MP1A	X	-.458	-.458	0	% 100
74	MP1A	Z	-.264	-.264	0	% 100
75	MP1B	X	-.458	-.458	0	% 100
76	MP1B	Z	-.264	-.264	0	% 100
77	MP1C	X	-.458	-.458	0	% 100
78	MP1C	Z	-.264	-.264	0	% 100
79	MP2A	X	-.458	-.458	0	% 100
80	MP2A	Z	-.264	-.264	0	% 100
81	MP2B	X	-.554	-.554	0	% 100
82	MP2B	Z	-.32	-.32	0	% 100
83	MP2C	X	-.554	-.554	0	% 100
84	MP2C	Z	-.32	-.32	0	% 100
85	MP3A	X	-.458	-.458	0	% 100
86	MP3A	Z	-.264	-.264	0	% 100
87	MP3B	X	-.458	-.458	0	% 100
88	MP3B	Z	-.264	-.264	0	% 100
89	MP3C	X	-.458	-.458	0	% 100
90	MP3C	Z	-.264	-.264	0	% 100
91	MP4A	X	-.458	-.458	0	% 100
92	MP4A	Z	-.264	-.264	0	% 100
93	MP4B	X	-.458	-.458	0	% 100
94	MP4B	Z	-.264	-.264	0	% 100
95	MP4C	X	-.458	-.458	0	% 100
96	MP4C	Z	-.264	-.264	0	% 100
97	MP5A	X	-.458	-.458	0	% 100
98	MP5A	Z	-.264	-.264	0	% 100
99	MP5B	X	-.458	-.458	0	% 100
100	MP5B	Z	-.264	-.264	0	% 100
101	MP5C	X	-.554	-.554	0	% 100
102	MP5C	Z	-.32	-.32	0	% 100
103	OVP	X	-.374	-.374	0	% 100
104	OVP	Z	-.216	-.216	0	% 100
105	M86	X	-.138	-.138	0	% 100
106	M86	Z	-.08	-.08	0	% 100
107	M94	X	-.138	-.138	0	% 100
108	M94	Z	-.08	-.08	0	% 100
109	M102	X	-.554	-.554	0	% 100
110	M102	Z	-.32	-.32	0	% 100
111	M105	X	-.17	-.17	0	% 100
112	M105	Z	-.098	-.098	0	% 100
113	M106	X	-.17	-.17	0	% 100
114	M106	Z	-.098	-.098	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
115	M107	X	-.679	-.679	0	% 100
116	M107	Z	-.392	-.392	0	% 100
117	M108	X	-.803	-.803	0	% 100
118	M108	Z	-.464	-.464	0	% 100
119	M109	X	-.803	-.803	0	% 100
120	M109	Z	-.464	-.464	0	% 100
121	M110	X	-.657	-.657	0	% 100
122	M110	Z	-.38	-.38	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	X	-.099	-.099	0	% 100
2	OVP2	Z	-.171	-.171	0	% 100
3	M2	X	-.296	-.296	0	% 100
4	M2	Z	-.512	-.512	0	% 100
5	M3	X	-.292	-.292	0	% 100
6	M3	Z	-.506	-.506	0	% 100
7	M4	X	-.278	-.278	0	% 100
8	M4	Z	-.482	-.482	0	% 100
9	M5	X	-.278	-.278	0	% 100
10	M5	Z	-.482	-.482	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	-.501	-.501	0	% 100
14	M7	Z	-.867	-.867	0	% 100
15	M8	X	-.501	-.501	0	% 100
16	M8	Z	-.867	-.867	0	% 100
17	M9	X	-.111	-.111	0	% 100
18	M9	Z	-.193	-.193	0	% 100
19	M10	X	-.334	-.334	0	% 100
20	M10	Z	-.578	-.578	0	% 100
21	M11	X	-.111	-.111	0	% 100
22	M11	Z	-.193	-.193	0	% 100
23	M12	X	0	0	0	% 100
24	M12	Z	0	0	0	% 100
25	M27	X	-.099	-.099	0	% 100
26	M27	Z	-.171	-.171	0	% 100
27	M28	X	-.296	-.296	0	% 100
28	M28	Z	-.512	-.512	0	% 100
29	M29	X	-.292	-.292	0	% 100
30	M29	Z	-.506	-.506	0	% 100
31	M30	X	-.278	-.278	0	% 100
32	M30	Z	-.482	-.482	0	% 100
33	M31	X	-.278	-.278	0	% 100
34	M31	Z	-.482	-.482	0	% 100
35	M32	X	-.501	-.501	0	% 100
36	M32	Z	-.867	-.867	0	% 100
37	M33	X	0	0	0	% 100
38	M33	Z	0	0	0	% 100
39	M34	X	-.501	-.501	0	% 100
40	M34	Z	-.867	-.867	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft...	End Magnitude[lb/ft...	Start Location[ft,%]	End Location[ft,%]
41	M35	X	-.111	-.111	0	%100
42	M35	Z	-.193	-.193	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	-.111	-.111	0	%100
46	M37	Z	-.193	-.193	0	%100
47	M38	X	-.334	-.334	0	%100
48	M38	Z	-.578	-.578	0	%100
49	M53	X	-.395	-.395	0	%100
50	M53	Z	-.684	-.684	0	%100
51	M54	X	0	0	0	%100
52	M54	Z	0	0	0	%100
53	M55	X	0	0	0	%100
54	M55	Z	0	0	0	%100
55	M56	X	0	0	0	%100
56	M56	Z	0	0	0	%100
57	M57	X	0	0	0	%100
58	M57	Z	0	0	0	%100
59	M58	X	-.501	-.501	0	%100
60	M58	Z	-.867	-.867	0	%100
61	M59	X	-.501	-.501	0	%100
62	M59	Z	-.867	-.867	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100
65	M61	X	-.445	-.445	0	%100
66	M61	Z	-.771	-.771	0	%100
67	M62	X	-.334	-.334	0	%100
68	M62	Z	-.578	-.578	0	%100
69	M63	X	-.445	-.445	0	%100
70	M63	Z	-.771	-.771	0	%100
71	M64	X	-.334	-.334	0	%100
72	M64	Z	-.578	-.578	0	%100
73	MP1A	X	-.264	-.264	0	%100
74	MP1A	Z	-.458	-.458	0	%100
75	MP1B	X	-.264	-.264	0	%100
76	MP1B	Z	-.458	-.458	0	%100
77	MP1C	X	-.264	-.264	0	%100
78	MP1C	Z	-.458	-.458	0	%100
79	MP2A	X	-.264	-.264	0	%100
80	MP2A	Z	-.458	-.458	0	%100
81	MP2B	X	-.32	-.32	0	%100
82	MP2B	Z	-.554	-.554	0	%100
83	MP2C	X	-.32	-.32	0	%100
84	MP2C	Z	-.554	-.554	0	%100
85	MP3A	X	-.264	-.264	0	%100
86	MP3A	Z	-.458	-.458	0	%100
87	MP3B	X	-.264	-.264	0	%100
88	MP3B	Z	-.458	-.458	0	%100
89	MP3C	X	-.264	-.264	0	%100
90	MP3C	Z	-.458	-.458	0	%100
91	MP4A	X	-.264	-.264	0	%100
92	MP4A	Z	-.458	-.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
93	MP4B	X	-.264	-.264	0 % 100
94	MP4B	Z	-.458	-.458	0 % 100
95	MP4C	X	-.264	-.264	0 % 100
96	MP4C	Z	-.458	-.458	0 % 100
97	MP5A	X	-.264	-.264	0 % 100
98	MP5A	Z	-.458	-.458	0 % 100
99	MP5B	X	-.264	-.264	0 % 100
100	MP5B	Z	-.458	-.458	0 % 100
101	MP5C	X	-.32	-.32	0 % 100
102	MP5C	Z	-.554	-.554	0 % 100
103	OVP	X	-.216	-.216	0 % 100
104	OVP	Z	-.374	-.374	0 % 100
105	M86	X	-.24	-.24	0 % 100
106	M86	Z	-.415	-.415	0 % 100
107	M94	X	0	0	0 % 100
108	M94	Z	0	0	0 % 100
109	M102	X	-.24	-.24	0 % 100
110	M102	Z	-.415	-.415	0 % 100
111	M105	X	0	0	0 % 100
112	M105	Z	0	0	0 % 100
113	M106	X	-.294	-.294	0 % 100
114	M106	Z	-.509	-.509	0 % 100
115	M107	X	-.294	-.294	0 % 100
116	M107	Z	-.509	-.509	0 % 100
117	M108	X	-.408	-.408	0 % 100
118	M108	Z	-.706	-.706	0 % 100
119	M109	X	-.491	-.491	0 % 100
120	M109	Z	-.851	-.851	0 % 100
121	M110	X	-.408	-.408	0 % 100
122	M110	Z	-.706	-.706	0 % 100

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

	Member Label	Direction	Start Magnitude[lb/ft...End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	OVP2	Y	-5.729	-5.729	2.342 4.088
2	M2	Y	-4.749	-4.749	1.597 3.528
3	M30	Y	-.632	-2.574	0 2.196
4	M30	Y	-2.574	-4.516	2.196 4.393
5	M57	Y	-4.495	-2.572	0 2.196
6	M57	Y	-2.572	-.649	2.196 4.393
7	M4	Y	-.632	-2.574	0 2.196
8	M4	Y	-2.574	-4.516	2.196 4.393
9	M31	Y	-4.495	-2.572	0 2.196
10	M31	Y	-2.572	-.649	2.196 4.393
11	M53	Y	-5.729	-5.729	2.342 4.088
12	M54	Y	-4.749	-4.749	1.597 3.528
13	M5	Y	-4.495	-2.572	0 2.196
14	M5	Y	-2.572	-.649	2.196 4.393
15	M27	Y	-5.729	-5.729	2.342 4.088
16	M28	Y	-4.749	-4.749	1.597 3.528
17	M56	Y	-.632	-2.574	0 2.196
18	M56	Y	-2.574	-4.516	2.196 4.393

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

	Member Label	Direction	Start Magnitude[lb/ft...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	OVP2	Y	-14.896	-14.896	2.342	4.088
2	M2	Y	-12.348	-12.348	1.597	3.528
3	M30	Y	-1.643	-6.692	0	2.196
4	M30	Y	-6.692	-11.742	2.196	4.393
5	M57	Y	-11.687	-6.687	0	2.196
6	M57	Y	-6.687	-1.686	2.196	4.393
7	M4	Y	-1.643	-6.692	0	2.196
8	M4	Y	-6.692	-11.742	2.196	4.393
9	M31	Y	-11.687	-6.687	0	2.196
10	M31	Y	-6.687	-1.686	2.196	4.393
11	M53	Y	-14.896	-14.896	2.342	4.088
12	M54	Y	-12.348	-12.348	1.597	3.528
13	M5	Y	-11.687	-6.687	0	2.196
14	M5	Y	-6.687	-1.686	2.196	4.393
15	M27	Y	-14.896	-14.896	2.342	4.088
16	M28	Y	-12.348	-12.348	1.597	3.528
17	M56	Y	-1.643	-6.692	0	2.196
18	M56	Y	-6.692	-11.742	2.196	4.393

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N108	N58	N2		Y	Two Way	-.005
2	N59	N9	N8		Y	Two Way	-.005
3	N10	N107	N11		Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N108	N58	N2		Y	Two Way	-.013
2	N59	N9	N8		Y	Two Way	-.013
3	N10	N107	N11		Y	Two Way	-.013

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	N99	m...	4176.894	9	667.134	3	1231.583	3	.471	20	.591	12	.308	9
2		m...	-2394.566	3	-523.939	9	-2284.726	9	-.019	2	-.635	6	-.712	3
3	N1	m...	786.843	10	754.224	7	4721.478	1	.608	19	1.275	4	.735	43
4		m...	-796.941	4	-219.374	1	-2733.524	7	-.087	1	-1.297	10	.01	1
5	N50	m...	2072.144	11	557.658	11	1166.511	11	.552	30	1.341	8	.659	35
6		m...	-3890.729	5	-392.38	5	-2255.586	5	-.059	12	-1.31	2	-.146	5
7	N195	m...	31.701	10	2330.388	13	246.855	7	0	51	0	4	0	46
8		m...	-31.86	4	-222.646	7	-2556.208	13	0	1	0	46	0	4
9	N197	m...	315.748	3	2408.367	21	1322.056	21	0	18	0	12	0	12
10		m...	-2289.329	21	-327.658	3	-182.181	3	0	12	0	18	0	18
11	N199	m...	2383.046	17	2504.837	17	1376.075	17	0	8	0	8	0	8
12		m...	-151.366	11	-158.298	11	-87.313	11	0	2	0	2	0	2
13	Totals:	m...	4528.935	10	7099.74	17	4311.177	1						
14		m...	-4528.937	4	3310.248	11	-4311.174	7						



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn ..	phi*Mn ..	Cb	Eqn
1	OVP2	HSS4X4X4	.127	3.337	1	.063	0	y	31	124770...	139518	16.181	16.181	1.. H1-1b
2	M2	HSS4X4X4	.114	2.563	14	.044	2.563	y	17	124994...	139518	16.181	16.181	1.. H1-1b
3	M3	PIPE 3.0	.115	2.708	10	.050	4.333		11	26386...	65205	5.749	5.749	1.. H1-1b
4	M4	L2x2x3	.168	1.373	8	.008	0	z	17	8882.243	23392.8	.558	1.166	1.. H2-1
5	M5	L2x2x3	.173	2.974	6	.010	4.393	z	21	8882.243	23392.8	.558	1.172	1.. H2-1
6	M6	PL1/2x6	.091	.135	6	.188	.271	y	48	94639...	97200	1.012	12.15	1.. H1-1b
7	M7	PL1/2x6	.086	.135	1	.115	.271	y	2	94639...	97200	1.012	12.15	1.. H1-1b
8	M8	PL1/2x6	.256	.51	1	.144	.51	y	22	66524.67	97200	1.012	12.15	1.. H1-1b
9	M9	PL3/8x4	.271	0	9	.196	0	y	16	46674...	48600	.38	4.05	1.. H1-1b
10	M10	PL3/8x4	.328	.135	7	.376	0	y	13	46347...	48600	.38	4.05	2.. H1-1b
11	M11	PL3/8x4	.293	0	6	.153	0	y	31	46674...	48600	.38	4.05	1.. H1-1b
12	M12	PL3/8x4	.391	.135	7	.421	0	y	17	46347...	48600	.38	4.05	1.. H1-1b
13	M27	HSS4X4X4	.136	3.337	5	.065	0	y	34	124770...	139518	16.181	16.181	1.. H1-1b
14	M28	HSS4X4X4	.094	2.562	16	.037	2.562	y	14	124994...	139518	16.181	16.181	1.. H1-1b
15	M29	PIPE 3.0	.133	2.708	2	.059	.542		10	26386...	65205	5.749	5.749	1.. H1-1b
16	M30	L2x2x3	.175	1.281	12	.010	0	z	22	8882.243	23392.8	.558	1.186	1.. H2-1
17	M31	L2x2x3	.180	2.883	10	.007	4.393	z	13	8882.243	23392.8	.558	1.17	1.. H2-1
18	M32	PL1/2x6	.082	.135	11	.139	.271	y	4	94639...	97200	1.012	12.15	1.. H1-1b
19	M33	PL1/2x6	.088	.135	12	.215	.271	y	18	94639...	97200	1.012	12.15	1.. H1-1b
20	M34	PL1/2x6	.242	.51	5	.169	.51	y	20	66524.67	97200	1.012	12.15	1.. H1-1b
21	M35	PL3/8x4	.270	0	11	.144	0	y	31	46674...	48600	.38	4.05	1.. H1-1b
22	M36	PL3/8x4	.376	.135	11	.342	0	y	27	46347...	48600	.38	4.05	1.. H1-1b
23	M37	PL3/8x4	.203	0	5	.078	0	y	36	46674...	48600	.38	4.05	1.. H1-1b
24	M38	PL3/8x4	.297	.135	5	.257	0	y	20	46347...	48600	.38	4.05	1.. H1-1b
25	M53	HSS4X4X4	.145	3.337	9	.052	0	y	15	124770...	139518	16.181	16.181	1.. H1-1b
26	M54	HSS4X4X4	.095	2.562	22	.040	2.562	y	13	124994...	139518	16.181	16.181	1.. H1-1b
27	M55	PIPE 3.0	.130	6.5	30	.066	12.4...		3	26386...	65205	5.749	5.749	1.. H1-1b
28	M56	L2x2x3	.169	1.51	4	.008	4.393	z	19	8882.243	23392.8	.558	1.17	1.. H2-1
29	M57	L2x2x3	.176	2.883	2	.007	4.393	z	17	8882.243	23392.8	.558	1.195	2.. H2-1
30	M58	PL1/2x6	.083	.135	9	.185	.271	y	8	94639...	97200	1.012	12.15	3.. H1-1b
31	M59	PL1/2x6	.092	.135	9	.150	.271	y	10	94639...	97200	1.012	12.15	2.. H1-1b
32	M60	PL1/2x6	.259	.51	9	.126	.51	y	18	66524.67	97200	1.012	12.15	1.. H1-1b
33	M61	PL3/8x4	.283	0	8	.054	0	y	14	46674...	48600	.38	4.05	1.. H1-1b
34	M62	PL3/8x4	.333	.135	3	.222	0	y	18	46347...	48600	.38	4.05	2.. H1-1b
35	M63	PL3/8x4	.200	.25	3	.075	0	y	21	46674...	48600	.38	4.05	1.. H1-1b
36	M64	PL3/8x4	.380	.135	4	.349	0	y	13	46347...	48600	.38	4.05	1.. H1-1b
37	MP1A	PIPE 2.0	.217	5.167	10	.068	5.167		2	14916...	32130	1.872	1.872	2.. H1-1b
38	MP1B	PIPE 2.0	.201	5.167	9	.094	1.667		11	14916...	32130	1.872	1.872	2.. H1-1b
39	MP1C	PIPE 2.0	.177	5.167	12	.088	1.667		9	14916...	32130	1.872	1.872	2.. H1-1b
40	MP2A	PIPE 2.0	.336	5.167	10	.072	3.417		11	14916...	32130	1.872	1.872	2.. H1-1b
41	MP2B	PIPE 2.5	.224	5.167	8	.144	5.167		9	30038...	50715	3.596	3.596	2.. H1-1b
42	MP2C	PIPE 2.5	.225	5.167	12	.101	1.667		2	30038...	50715	3.596	3.596	2.. H1-1b
43	MP3A	PIPE 2.0	.376	5.167	10	.070	5.167		10	14916...	32130	1.872	1.872	2.. H1-1b
44	MP3B	PIPE 2.0	.371	5.167	2	.057	5.167		2	14916...	32130	1.872	1.872	2.. H1-1b
45	MP3C	PIPE 2.0	.347	5.167	6	.054	5.167		8	14916...	32130	1.872	1.872	2.. H1-1b
46	MP4A	PIPE 2.0	.325	5.167	4	.067	5.167		2	14916...	32130	1.872	1.872	2.. H1-1b
47	MP4B	PIPE 2.0	.275	5.167	2	.081	5.167		10	14916...	32130	1.872	1.872	2.. H1-1b
48	MP4C	PIPE 2.0	.258	5.167	6	.076	3.417		4	14916...	32130	1.872	1.872	2.. H1-1b
49	MP5A	PIPE 2.0	.235	5.167	4	.073	5.167		12	14916...	32130	1.872	1.872	2.. H1-1b
50	MP5B	PIPE 2.0	.181	5.167	2	.090	1.667		10	14916...	32130	1.872	1.872	2.. H1-1b
51	MP5C	PIPE 2.5	.143	1.667	9	.098	5.167		5	30038...	50715	3.596	3.596	1.. H1-1b



Company : Maser Consulting
 Designer :
 Job Number : Project # 21777046A
 Model Name : Antenna Mount Analysis

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

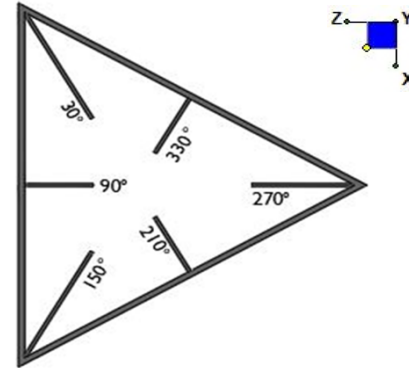
Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn ..	phi*Mn ..	Cb	Eqn	
52	OVP	PIPE 2.0	.096	2	4	.015	2	4	28843....	32130	1.872	1.872	2..	H1-1b	
53	M86	PIPE 2.5	.177	11.646	9	.059	1.219	2	13460....	50715	3.596	3.596	1..	H1-1b	
54	M94	PIPE 2.5	.187	1.219	3	.101	11.6...	2	13460....	50715	3.596	3.596	1..	H1-1b	
55	M102	PIPE 2.5	.186	10.427	11	.117	11.6...	10	13460....	50715	3.596	3.596	1..	H1-1b	
56	M105	L3X3X4	.390	0	11	.039	0	y	11	43364....	46656	1.688	3.756	2..	H2-1
57	M106	L3X3X4	.303	0	3	.039	.057	y	10	43364....	46656	1.688	3.756	2..	H2-1
58	M107	L3X3X4	.357	0	3	.046	1.817	y	9	43364....	46656	1.688	3.756	2..	H2-1
59	M108	LL3x3x3x3	.072	4.506	13	.004	0	z	10	47832....	70632	5.543	3.751	1	H1-1b*
60	M109	LL3x3x3x3	.075	4.506	21	.003	0	y	19	47832....	70632	5.543	3.751	1	H1-1b*
61	M110	LL3x3x3x3	.078	4.506	17	.004	0	z	8	47832....	70632	5.543	3.751	1	H1-1b*



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N99	30
N50	150
N1	270



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch):

d_y (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

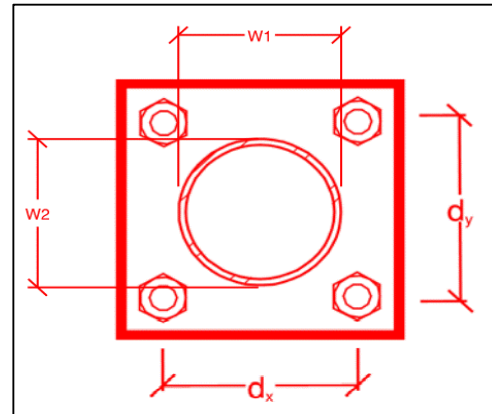
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
8
8
A325N
0.625
6.7
2.6
20.7
12.4
8.1%*
5.3%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

$\Phi \cdot R_n$ (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
10
4
4
36
0.5
4
5.57
0.91
34.3%
16.3%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	1.7
$\Phi \cdot M_{n_{xx}}$ (kip-in):	20.3
$M_{u_{yy}}$ (kip-in):	5.2
$\Phi \cdot M_{n_{yy}}$ (kip-in):	20.3

Mount Desktop Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor **Mount Modification**

Purpose – to provide Maser Consulting Connecticut 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 modification was completed in accordance with the modification drawings.

Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

Any special photos outside of the standard requirements will be indicated on the drawings

Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.

Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.

Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.

Each photo should be time and date stamped

Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.

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.

The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

Base and “During Installation Photos”

- Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
- “During Installation Photos if provided - must be placed only in this folder

Photos taken at ground level

- Overall tower structure before and after installation of the modifications
- Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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


















Issue:

- | |
|--|
| 1. Install (1) OVP pipe, 36" long P2.0 STD in gamma sector. Connect to standoff horizontal (Site Pro 1, Part #: SQCX4-K or EOR approved equal). Install proposed OVP onto the same pipe. |
|--|

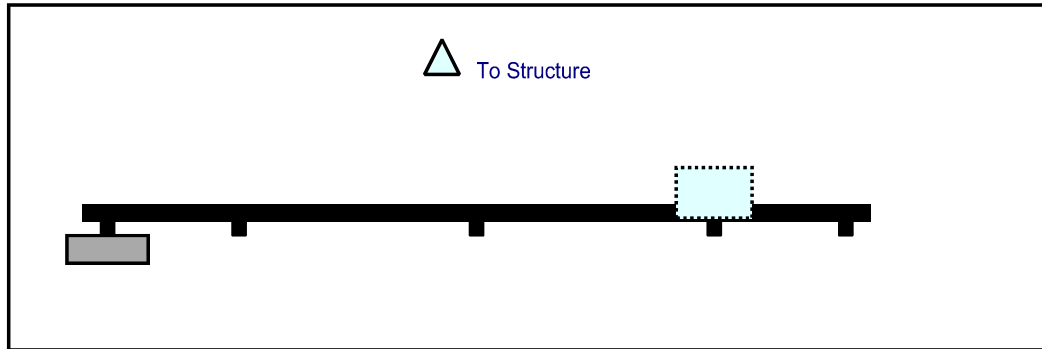
Response:

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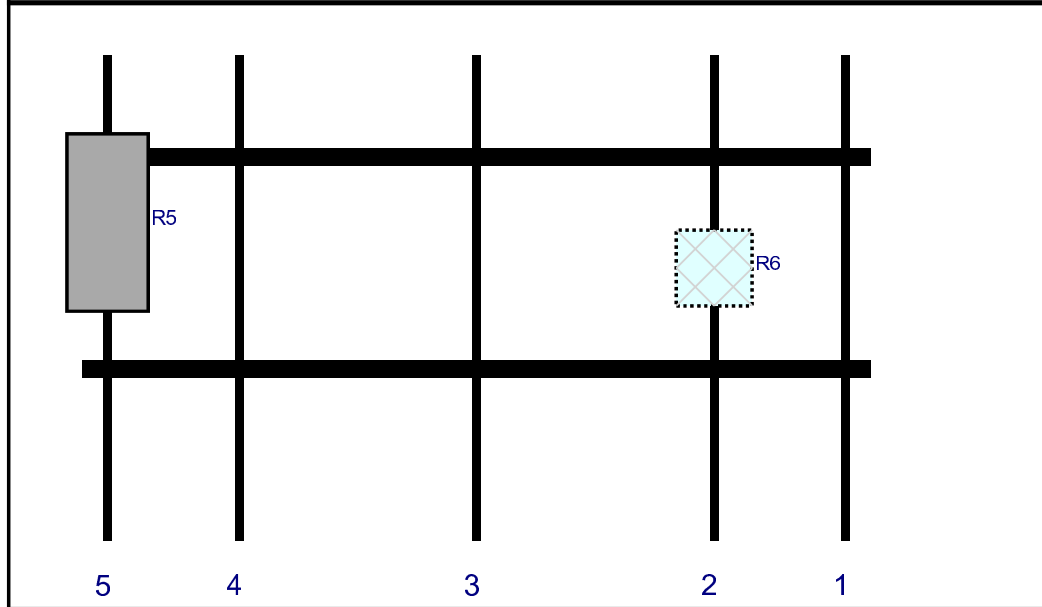
Schedule A Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & During Installation Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb If Present
-  Certifications Submission of this document including certifications
-  Specific Required Additional Photos

Plan View

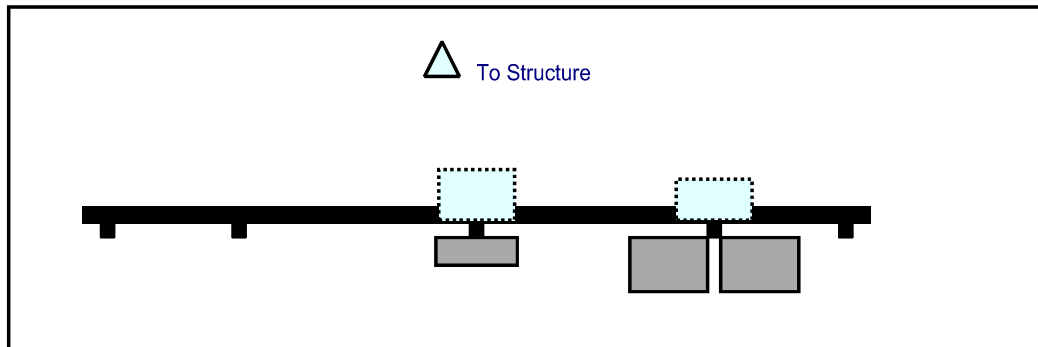


Front View
Looking at Structure

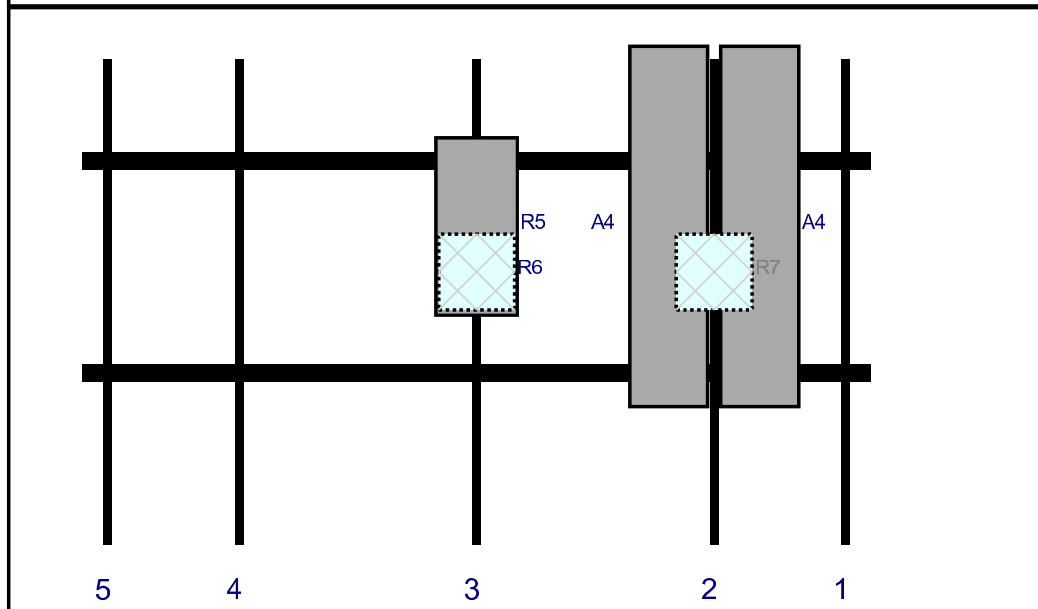


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R6	B2/B66A RRH-BR049	15	15	125	2	a	Behind	42	0	Added	
R5	MT6407-77A	35.1	16.1	5	5	a	Front	33	0	Added	

Plan View

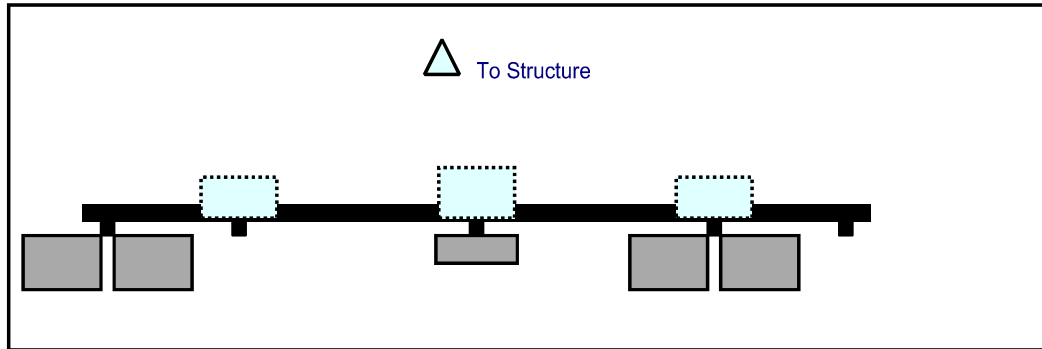


Front View
Looking at Structure

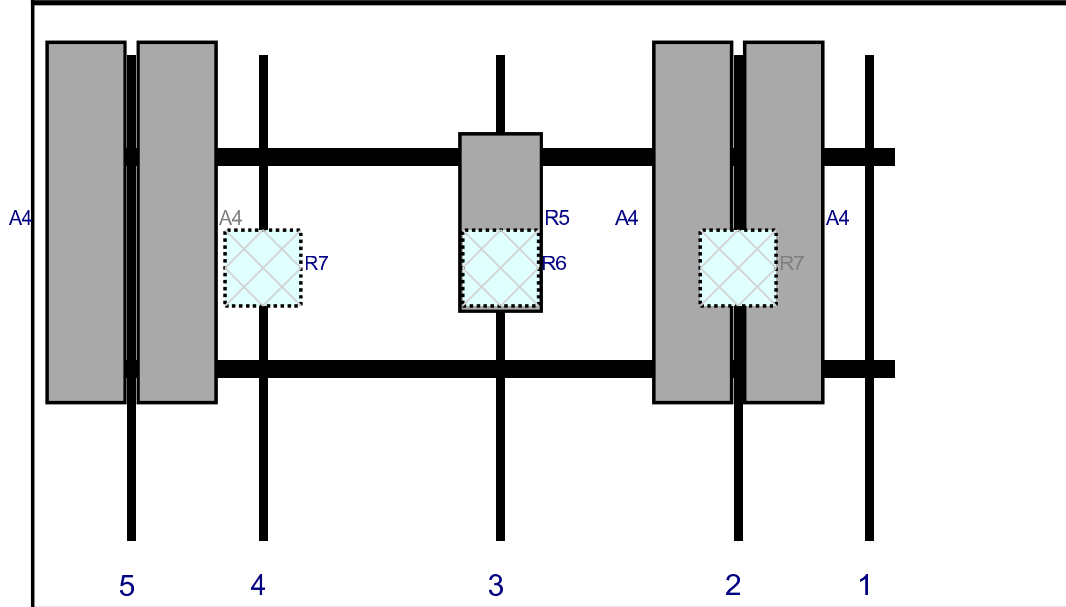


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	MX06FRO660-03	71.3	15.4	125	2	a	Front	33	9	Added	
A4	MX06FRO660-03	71.3	15.4	125	2	b	Front	33	-9	Added	
R7	B5/B13 RRH-BR04C	15	15	125	2	a	Behind	42	0	Added	
R5	MT6407-77A	35.1	16.1	78	3	a	Front	33	0	Added	
R6	B2/B66A RRH-BR049	15	15	78	3	a	Behind	42	0	Added	

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	MX06FRO660-03	71.3	15.4	125	2	a	Front	33	9	Added	
A4	MX06FRO660-03	71.3	15.4	125	2	b	Front	33	-9	Added	
R7	B5/B13 RRH-BR04C	15	15	125	2	a	Behind	42	0	Added	
R5	MT6407-77A	35.1	16.1	78	3	a	Front	33	0	Added	
R6	B2/B66A RRH-BR049	15	15	78	3	a	Behind	42	0	Added	
R7	B5/B13 RRH-BR04C	15	15	31	4	a	Behind	42	0	Added	
A4	MX06FRO660-03	71.3	15.4	5	5	a	Front	33	9	Added	
A4	MX06FRO660-03	71.3	15.4	5	5	b	Front	33	-9	Added	

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 467321-VZW / HARWINTON NW CT
Site Name: HARWINTON NW CT
Carrier Name: Verizon Wireless
Address: 133 Clearview Ave
Harwinton, Connecticut 06791
Litchfield County
Latitude: 41.775739°
Longitude: -73.098550°

Structure Information

Tower Type: Monopole
Mount Type: 13.00-Ft Platform

FUZE ID # 16244598

To Whom It May Concern,

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

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

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

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

Sincerely,



Derek Hartzell, PE
Technical Specialist



MOUNT MODIFICATION DRAWINGS
EXISTING 13.00' PLATFORM

TOWER OWNER: SBA TOWERS
TOWER OWNER SITE NUMBER: CTO 1944

CARRIER SITE NAME: HARWINTON NW CT
CARRIER SITE NUMBER: 467321
FUZE ID: 16244598

133 CLEARVIEW AVE
HARWINTON, CT 06791
LITCHFIELD COUNTY

LATITUDE: 41.775739° N
LONGITUDE: 73.09855° W

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REV	DATE	DESCRIPTION	BY	CHKD

CONNECTICUT PROFESSIONAL ENGINEERING LICENSE
No. 277946 (Reg II)
2/1/2018 - 1/31/2021
Peter Albano
133 Clearview Ave
Harwinton, CT 06791
Phone: 861-977-0412
Fax: 861-977-1100

PLEASE VERIFY THAT ALL INFORMATION IS ACCURATE AND CORRECT. IF YOU ARE NOT THE AUTHORIZED REPRESENTATIVE OF THE CLIENT, PLEASE CONTACT THE PROJECT MANAGER IMMEDIATELY.

SITE NAME:
HARWINTON NW CT
467321
133 CLEARVIEW AVE
HARWINTON, CT 06791
LITCHFIELD COUNTY

MASER CONSULTING CONNECTICUT
133 CLEARVIEW AVE
HARWINTON, CT 06791
PHONE: 861-977-0412
FAX: 861-977-1100

TITLE SHEET

ST-1

SHEET INDEX

SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBK-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

PROJECT INFORMATION

APPLICANT/LESSEE: VERIZON WIRELESS
 COMPANY: VERIZON WIRELESS
 CLIENT REPRESENTATIVE:
 COMPANY: VERIZON WIRELESS
 ADDRESS: 18 LANDER ROAD, THIRD FLOOR
 HARWINTON, CT 06791
 CONTACT: ANDREW CANDIELLO
 EMAIL: ANDREW.CANDIELLO@VERIZONWIRELESS.COM

PROJECT MANAGER:
 COMPANY: MASER CONSULTING CONNECTICUT
 CONTACT: PETER ALBANO
 PHONE: 856-797-0412
 EMAIL: PETER.ALBANO@COLLIERENGINEERING.COM

DESIGN CRITERIA

WIND LOADS
 BASIC WIND SPEED (3 SECOND GUST), $V = 115$ MPH
 EXPOSURE CATEGORY: B
 TOPOGRAPHIC CATEGORY: 1
 MEAN BASE ELEVATION (MPSL) = 979.45'

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

SEISMIC LOADS
 SEISMIC DESIGN CATEGORY: B
 SHORT TERM MCEER GROUND MOTION, $S_s = 176$
 LONG TERM MCEER GROUND MOTION, $S_L = 054$

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HARWINTON, CT
 SMART TOOL PROJECT #: 0085813
 VZW LOCATION CODE (PCLC): 467321
 ANALYSIS DATE: 7/23/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT	WEIGHT
15		VZWSMART-MSK1	CROSSOVER PLATE		14	210
3		VZWSMART-MSK2	CROSSOVER PLATE		15	45
3		VZWSMART-FLK3	SUPPORT RAIL CORNER BRACKET		30	90
1		VZWSMART-FLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET 35K11	291	291
1	VZWSMART	VZWSMART-FLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT	WEIGHT
1	SITE PRO 1	SQCX4-K	CROSSOVER PLATE KIT W/ SQUARE U-BOLTS AND STD. U-BOLTS	OR FOR APPROVED EQUAL	11.35	11.35
3	-	-	24" LONG, L3X3x1/4	GALVANIZED	9.82	29.46
3	-	-	96" LONG, P2.5 STD	GALVANIZED	43.81	131.43
3	-	-	156" LONG, P2.5 STD	GALVANIZED	71.19	213.57
1	-	-	36" LONG, P2.0 STD	GALVANIZED	10.42	10.42
TOTAL:						1182.23



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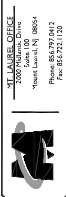
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REV	DATE	DESCRIPTION	BY	CHKD
1				



David J. DeLuca, P.E.
 State of Connecticut
 License No. 37140
 Exp. 12/31/2024

SITE NAME:
 HARWINGTON NW CT
 467321
 133 CLEARVIEW AVE
 HARWINGTON, CT 06791
 LITCHFIELD COUNTY



BILL OF MATERIALS
 SBOM-1

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	CONTACT: SALVADOR ANGUIANO PHONE: (817) 304-7492 EMAIL: SALVADOR.ANGUIANO@COMMSCOPE.COM WEBSITE: WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	CONTACT: KENT RAMEY PHONE: (706) 335-7045 (O), (706) 982-9788 (F) EMAIL: KENT@METROSITELLC.COM WEBSITE: METROSITEFABRICATORS.COM
PERFECTVISION	CONTACT: WIRELESS SALES PHONE: (844) 887-6733 EMAIL: WIRELESSALES@PERFECT-VISION.COM WEBSITE: WWW.PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	CONTACT: ANGIE WELCH PHONE: (866) 428-6937 EMAIL: AKWELCH@SABREINDUSTRIES.COM WEBSITE: WWW.SABRESOLUTIONS.COM
SITE PRO 1	CONTACT: PAULA ROSWELL PHONE: (972) 236-9883 EMAIL: PAULA.ROSWELL@VALMONT.COM WEBSITE: WWW.SITEPRO1.COM

NOTES:

- THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
- ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. CONTRACTOR SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS. NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30 MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING BRACING AND ANY OTHERS STRUCTURAL HANDING AND BRACING TO ALL STRUCTURES TO BE FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSITIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPRABIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ALL MATERIALS TO BE USED SHALL BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE POINT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

WELDING NOTES

- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 LATEST EDITION. THIS SHALL INCLUDE A CERTIFIED WELD INSPECTOR (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS. PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
- CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTRY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

- THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS ARE DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
- IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER BEQUAL TO THAT SHOWN IN THE DRAWINGS.
- OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
 - PIPE ASTM A53 (GR 35)
 - STEEPS ASTM A572 (GR 50)
 - NUTS ASTM A433
 - LOCK WASHERS ASTM A563
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO VERIFY THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MANUFACTURING VARIATIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING BRACING AND ANY OTHERS STRUCTURAL HANDING AND BRACING TO ALL STRUCTURES TO BE FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO PETER ALBANO@COLLIERENGINEERING.COM
 - PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT DIPPER GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2. REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM EDGE DISTANCE AND SPACING.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT DIPPER GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND

- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.
- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK. ALL WORKERS SHOULD BE AWARE OF THE RISK OF WORKING IN THE VICINITY OF HIGH LEVELS OF ELECTROMAGNETIC RADIATION. ALL WORKERS SHOULD BE WORKING TO AVOID ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

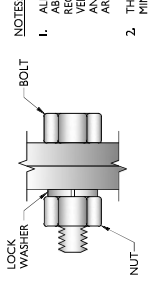
PROJECT NOTES

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

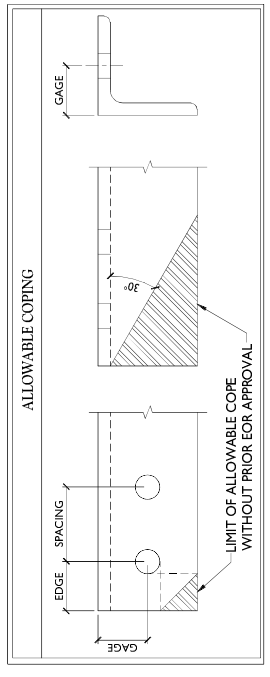
WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE ALSO MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND WITH ENGINEER. DIMENSIONS ARE LESS THAN THOSE PROVIDED.
 - THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
 - SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
 - MATCH EXISTING GAGES WHERE APPLICABLE UNLESS MINIMUM EDGE DISTANCES ARE COMPLETED.



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CONNECTICUT PROFESSIONAL ENGINEER
 Peter Albano
 License No. 12479 (Mechanical)
 Exp. 07/23/2025

STATE OF CONNECTICUT
 DEPARTMENT OF CONSTRUCTION
 REGISTERED PROFESSIONAL ENGINEER

SITE NAME:
 HARWINTON NW CT
 467321
 133 CLEARVIEW AVE
 HARWINTON, CT 06791
 LITCHFIELD COUNTY

MODIFICATION NOTES

SCALE:
 1" = 1'-0"

DATE:
 08/27/2024

PROJECT:
 5G-N-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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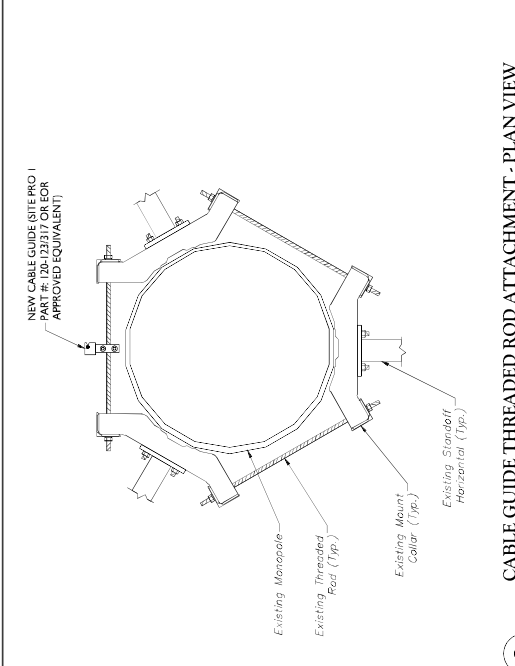
STATE OF CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 License No. 100-0864
 Seal of David J. DeLuca

DATE: 2/24/2021 10:56:04 AM
 PROJECT: 217796A (Rev. 1)

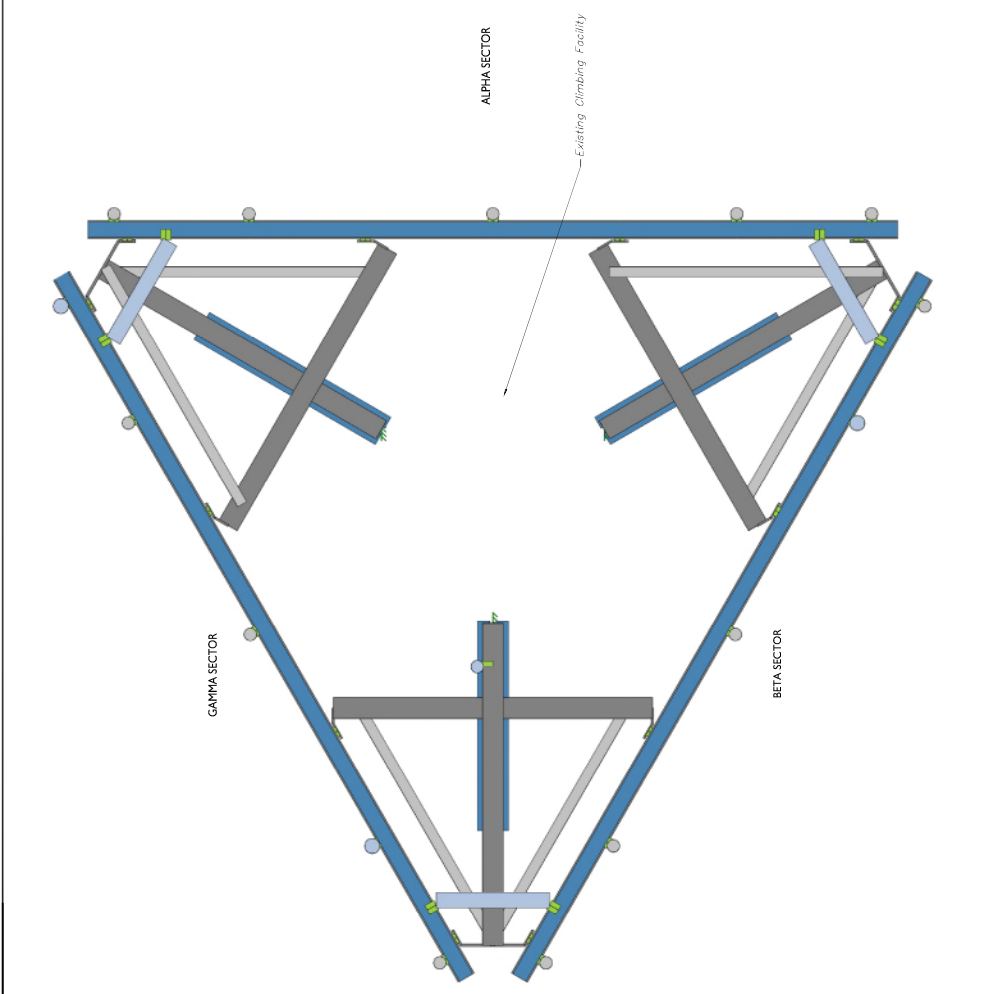
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 133 CLEARVIEW AVE
 HARWINTON, CT 06791
 LITCHFIELD COUNTY

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 DENVER, CO 80202
 Phone: 855.977.8142
 Fax: 855.521.1202

PROJECT:
 CLIMBING FACILITY DETAIL
PROJECT NUMBER:
 SCF-1



2 CABLE GUIDE THREADED ROD ATTACHMENT - PLAN VIEW
 SCALE: N.T.S.



1 CLIMBING FACILITY LOCATION
 SCALE: N.T.S.

- STRUCTURAL NOTES:**
- PER THE MOUNT MAPPING COMPLETED BY LEVEL-UP TOWERS ON 2/24/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (1180-77) ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
 - INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE. CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE, TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



CLIMBING FACILITY PHOTO

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STATE OF CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 David J. DeLuca
 No. 217796A, Exp. 11/11

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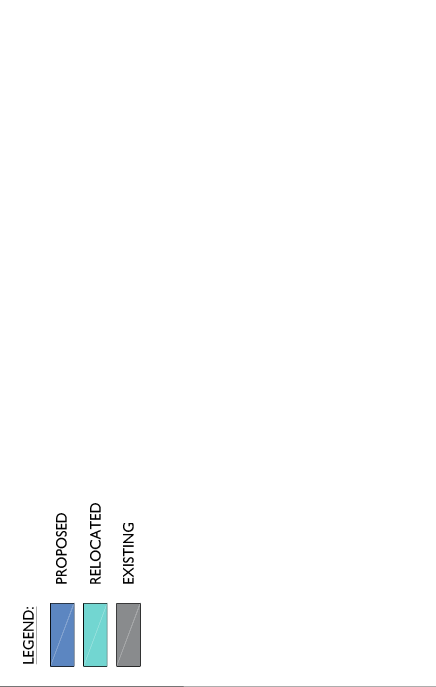
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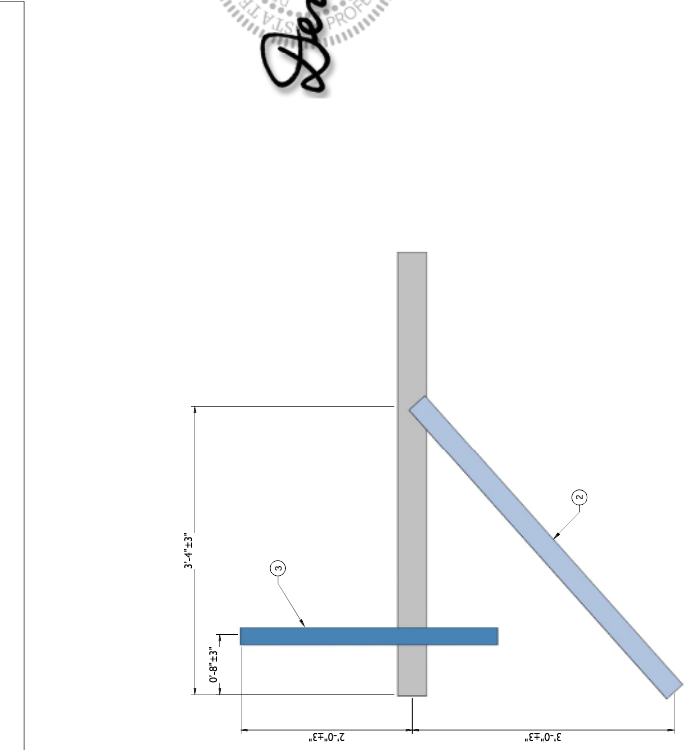
MODIFICATION DETAILS
 SHEET TITLE:
 SHEET NUMBER: SS-1

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		3	24" LONG L3X3X1/4 ANGLES	CONTRACTOR SHALL CONNECT PROPOSED L3X3/4 ANGLES TO CORNER BRACKETS (PART #: VZWSMART-PLK3) USING THE PROVIDED (8) 3/8" DIA. BOLTS, (4) BOLTS PER CONNECTION WITH THE STRUCTURAL STEEL NOTES ON SHEET SGN-1
2		1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGN-1 CONNECT OTHER END TO MONOPOLE WITH NEW COLLAR MOUNT (PART #: VZWSMART-PLK7) GALVANIZED.
3		1	36" LONG P2.0 STD OVP PIPE	CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1) AND SOCKETS (PART #: VZWSMART-MSK2) OR APPROVED EQUAL. BEHIND BETA AND GAMMA SECTORS ONLY. GALVANIZED.
4	180'-7"	3	156" LONG P2.5 STD SUPPORT RAIL	RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1) GALVANIZED.
5		3	96" LONG P2.5 STD MOUNT PIPE	CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
6				
7				
8				
9				
10				

NOTES:
 MOUNT MEMBERS NOT SHOWN FOR CLARITY UNLESS INDICATED OTHERWISE.
 CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGN-1.



PROPOSED ISOMETRIC VIEW
 SCALE: N.T.S.



PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)
 SCALE: N.T.S.

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2	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
3	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
4	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
5	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
6	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
7	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
8	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
9	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM
10	07/23/2012	ISSUED FOR CONSTRUCTION	MM	MM

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PROFESSIONAL ENGINEER
 3271100
 License No. 100-08864
 State of Connecticut
 Department of Transportation
 111 Capitol Mall, Room 100
 Hartford, CT 06103
 Phone: 862-397-8412
 Fax: 862-392-1202

SITE NAME:
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PROJECT: AS SHOWN | **PROJECT NO.:** 2127794G (Rev. 11)

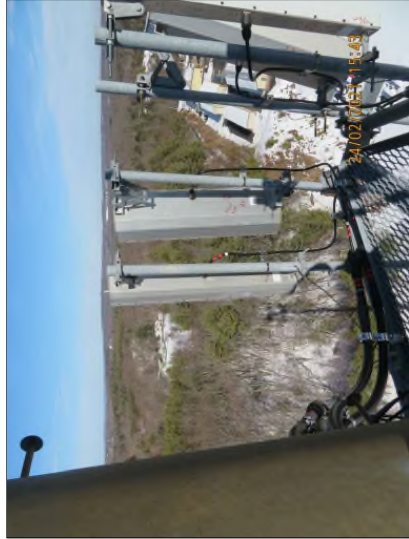
DATE: 24/02/2012 15:43

SCALE: AS SHOWN

PROJECT: AS SHOWN



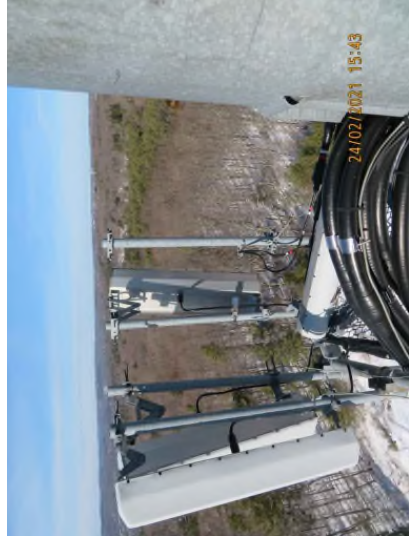
MOUNT PHOTO 2



MOUNT PHOTO 4

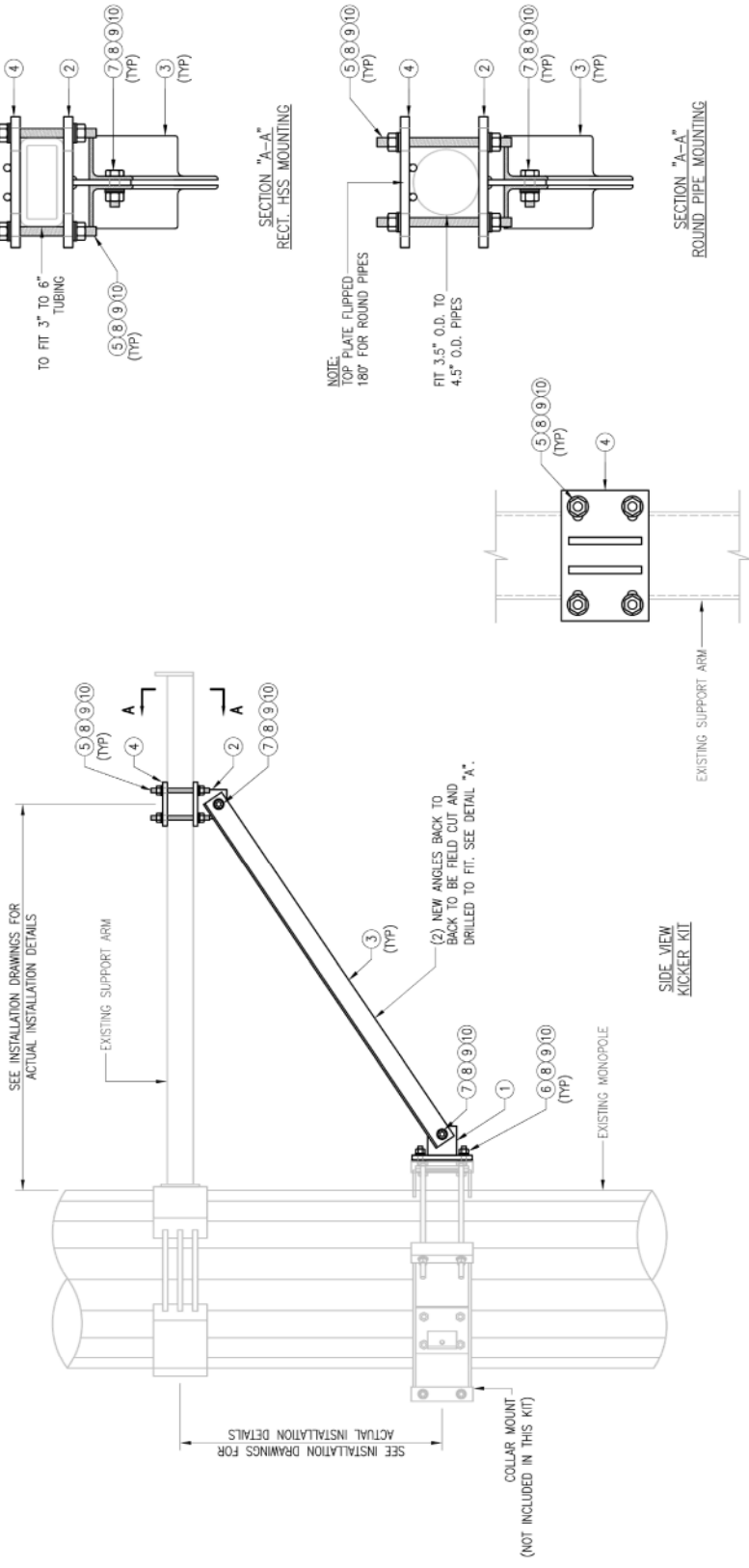


MOUNT PHOTO 1



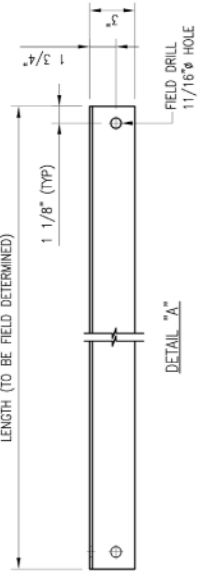
MOUNT PHOTO 3

NOTE:
 THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



VZWSMART-PLK5 (KICKER KIT)

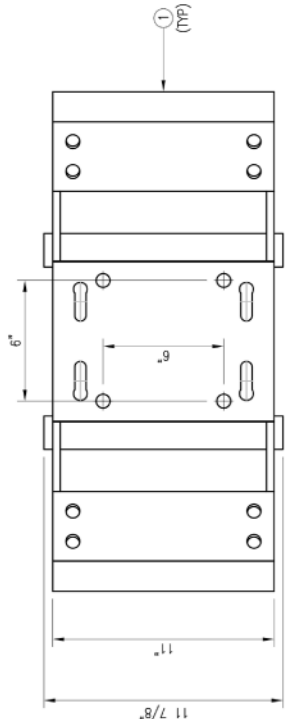
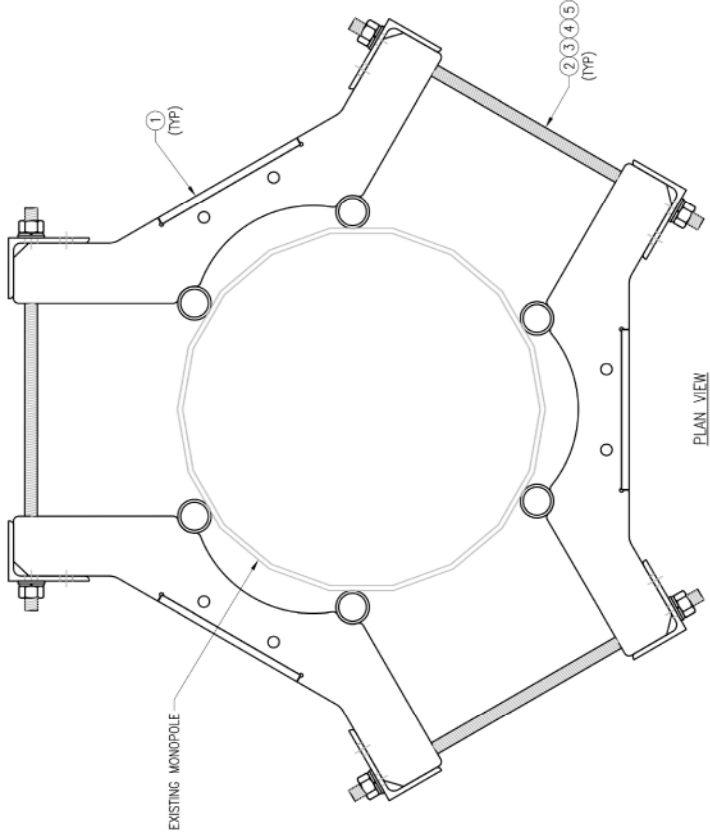
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L31875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	----	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	----	----
6	6	----	BOLT 5/8" X 2" A325	----	----
7	12	----	BOLT 5/8" X 2 1/2" A325	----	----
8	42	FW-625	5/8" HDG USS FLAT WASHER	----	3
9	42	LW-625	5/8" HDG LOCK WASHER	----	1
10	42	NUT-625	5/8" HDG HEX NUT	----	5
				GALVANIZED WT 291	



NOTES:
 1. ALL HOLES ARE 11/16" DIA. UNO
 2. HOT-DIPPED GALVANIZED PER ASTM A123.
 3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

DRAWN BY: BT	CHECKED BY: HMA/WH
REV. DESCRIPTION	BY DATE
1 FIRST ISSUE	BT 05/11/20
△	
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SHEET TITLE:	VZWSMART-PLK7 MONOPOLE COLLAR MOUNT ASSEMBLY
SHEET NUMBER:	REV # 0



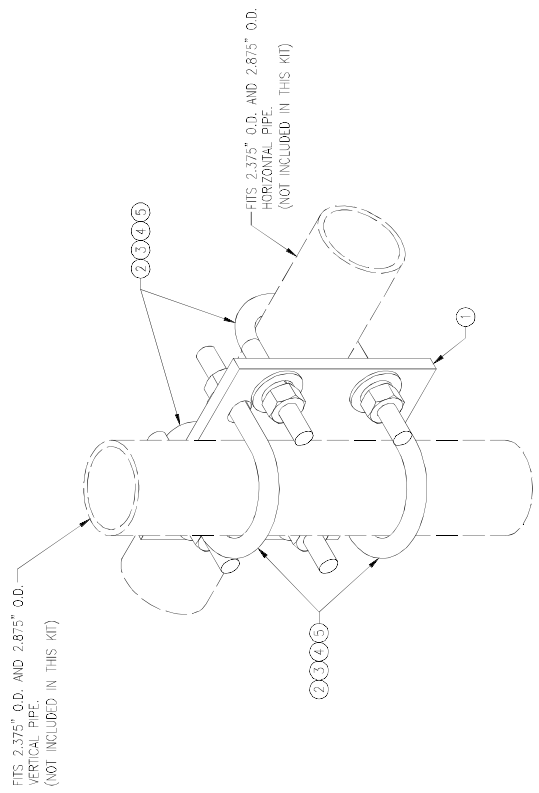
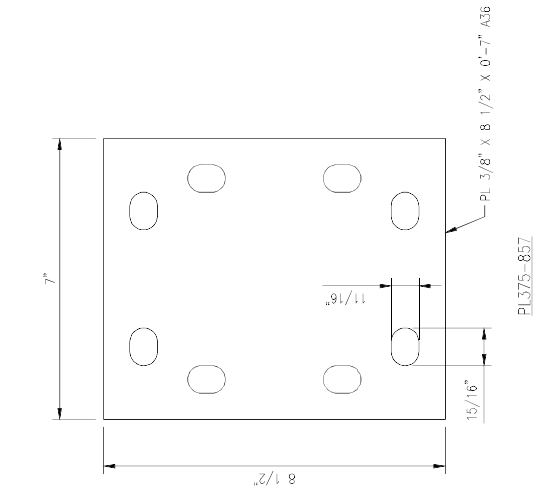
VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	1.47
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	---
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	150

NOTES:
 1. FIT 12" TO 45" DIA MONOPOLE.
 2. HOT-DIPPED GALVANIZED PER ASTM A123.

DRAWN BY: HR	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
1 FIRST ISSUE	HR 05/08/20
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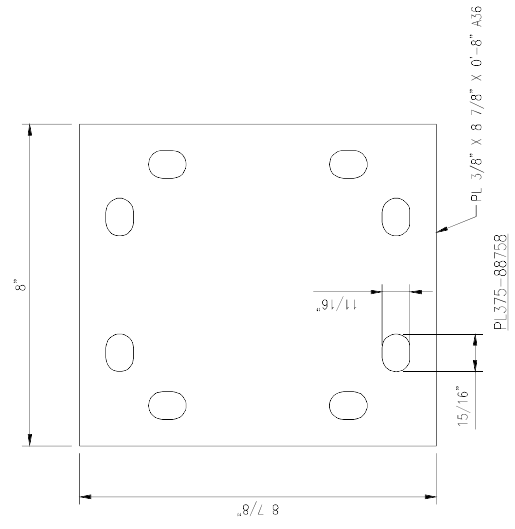
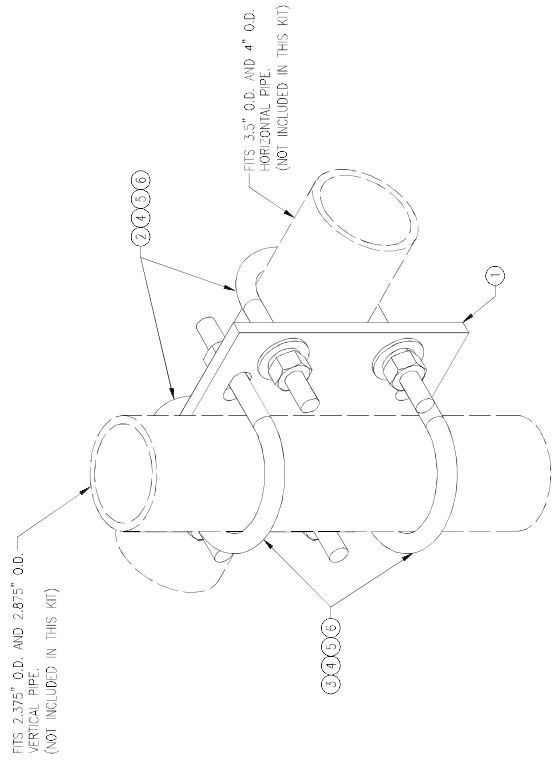
SHEET TITLE:
 VZWSMART-MSK1
 CROSSOVER PLATE

SHEET NUMBER:	REV #
VZWSMART-MSK1	0



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-I	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT 14	

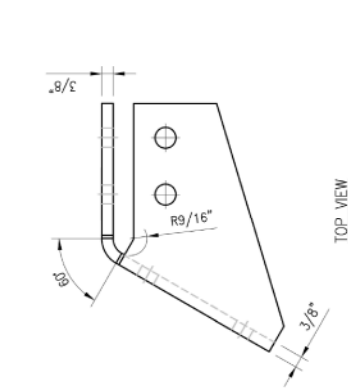
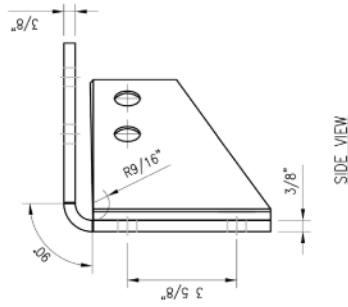
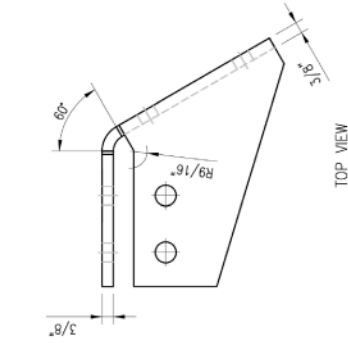
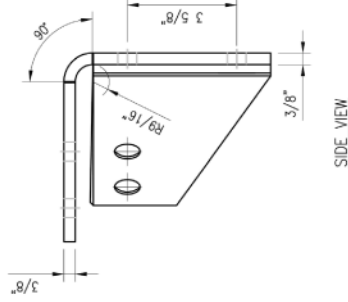
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" LW. X 6" LL. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" LW. X 5" LL. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG. USS. FLAT WASHER	---	1
5	8	LW-625	5/8" HDG. LOCK WASHER	---	0
6	8	NUT-625	5/8" HDG. HEX. NUT	---	1
VZWSMART-MSK2 (CROSSOVER PLATE)				GALVANIZED. WT. 15	

NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

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1 FIRST ISSUE	HR 05/08/20
△	
△	
△	
△	
△	
SHEET TITLE:	
VZWSMART-MSK2 CROSSOVER PLATE	
SHEET NUMBER:	REV #
VZWSMART-MSK2	0



DRAWN BY: H.R. | CHECKED BY: HMA
 REV. DESCRIPTION BY DATE
 1 FIRST ISSUE H.R. 05/08/20

SHEET TITLE:
 VZWSMART-PLK3
 SUPPORT RAIL CORNER
 BRACKET

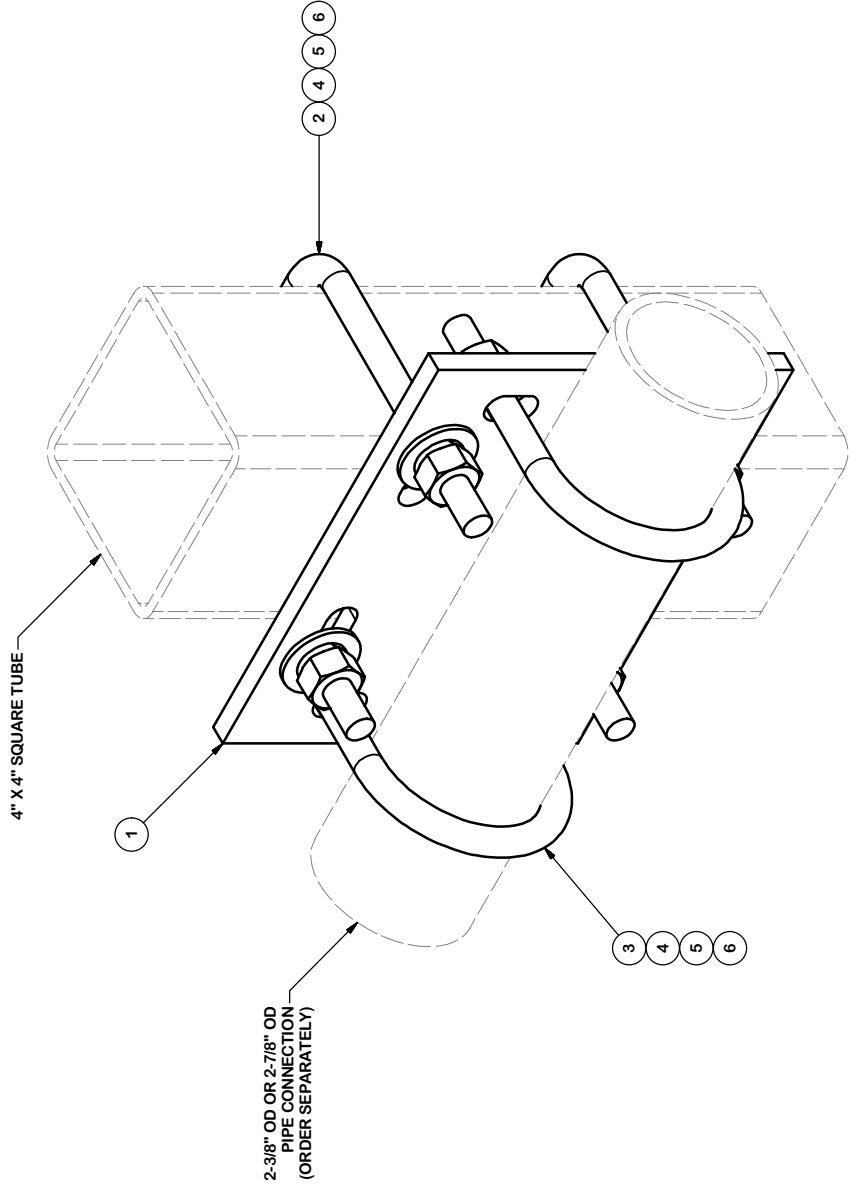
SHEET NUMBER:
 VZWSMART-PLK3
 0

NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
				GALVANIZED WT	30

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	6.02
2	2	X-SUB1418	SQUARE U-BOLT 0.5" DIA. X 4.125" IW X 6" IL X 3" TR		0.98	1.95
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	1.19
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.67	1.34
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	11.35



4" X 4" SQUARE TUBE

2-3/8" OD OR 2-7/8" OD
PIPE CONNECTION
(ORDER SEPARATELY)

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE: DIMENSIONS CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED AT RISK. SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
**CROSSOVER PLATE KIT
 W/ SQUARE U-BOLTS AND STD. U-BOLTS**

CPD NO.	DRAWN BY	ENG. APPROVAL
	CSL	9/18/2018
CLASS	DRAWING USAGE	CHECKED BY
87	CUSTOMER	BMC
SUB		11/12/2018
02		



Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Dallas, TX

Engineering
 Support Team:
 1-888-753-7446

PART NO.	SQCX4-K
DWG. NO.	SQCX4-K

ATTACHMENT 5

133 Clearview Ave,
Harwinton, CT 06791

Clearview Storage Park

Wayne's Truck
& Equipment

Google

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Parcelld 589
Account Number 1060
Location Address 133 CLEARVIEW AVE
Map-Block-Lot B7 /01 /0017
Use Class/Description 2-1 COMM LAND
Assessing Neighborhood0001A

Census Tract 07
Acreage 14.13
Utilities

Owner

CLEARVIEW STORAGE PARK LLC
P O BOX 155
HARWINTON, CT 06791

Current Appraised Value

Columns

Current Appraised Value

	2019	2018	2017
+ Building Value	\$734,440	\$734,440	\$1,028,960
+ XF Value	\$0	\$0	\$0
+ OB Value	\$22,370	\$22,370	\$22,370
+ Land Value	\$599,310	\$599,310	\$202,950
+ Special Land Value			
Total			
+ Appraised Value	\$1,356,120	\$1,356,120	\$1,254,280
Net			
+ Appraised Value	\$1,356,120	\$1,356,120	\$1,254,280
+ Current Assessment	\$949,290	\$949,290	\$878,010

Assessment History

Columns


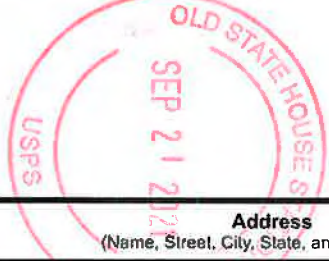

Assessment History

	2018	2017	2016	2015
+ Building Value	\$514,110	\$720,280	\$720,280	\$720,280

ATTACHMENT 6



HARWINTON NW
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender <p style="text-align: center; font-size: 2em;">3</p>	TOTAL NO. of Pieces Received at Post Office™ <p style="text-align: center; font-size: 2em;">3</p>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right;"> <p>neopost[®] 09/22/2021 US POSTAGE \$002.99⁰</p>  ZIP 06103 041L12203937 </div>
	Postmaster, per (name of receiving employee) <div style="text-align: center;">   </div>		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Michael R. Criss, First Selectman Town of Harwinton 100 Bentley Drive Harwinton, CT 06791				
2.	Polly Redmond, Land Use Coordinator Town of Harwinton 100 Bentley Drive Harwinton, CT 06791				
3.	Clearview Storage Park LLC P.O. Box 155 Harwinton, CT 06791				
4.					
5.					
6.					