



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

January 28, 2022

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

**RE: Notice of Exempt Modification // Site: WATERFORD CT (ATC: 411183)
53 DAYTON RD., WATERFORD, CT 06385
N 41.377839 // W 72.139347**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains Nine (9) antenna at the 134.8' level on the existing 194' SST tower, located at 53 Dayton Road, Waterford, CT. The tower is owned by American Tower. The property owner is Cohonzie Fire District No. 5 Inc. Verizon Wireless now intends to install three (3) new antenna for the LTE (3700 MHz) replacements for its 5G upgrade; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Rob Brule, First Selectman, Jay Murphy, Chief Zoning Enforcement Officer, and Cohonzie Volunteer Fire District No. 5 the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated December 23, 2021, by Colliers Engineering & Design, a structural analysis dated July 26, 2021, by American Tower Corporation and a structural mount analysis by Maser Consulting Connecticut dated November 3, 2021, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by American Tower Corporation, dated July 26, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated November 3, 2021, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings, signed, and stamped dated December 23, 2021.

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

Sincerely,

John Coleman

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

Attachments

cc: Rob Brule, First Selectman of Stamford - as chief elected official
Jay Murphy, Chief Zoning Enforcement Officer - as P&Z official
Cohonzie Volunteer Fire District No. 5 – as the Property Owner

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
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3. **GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
Your driver will pickup your shipment(s) as usual.

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| | | | |
|--|---|--|---|
| <p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CASSANDRA ROSENKRANZ CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: FIRST SELECTMAN - ROB BRULE 15 ROPE FERRY ROAD WATERFORD TOWN HALL WATERFORD CT 06385-2886</p> | <p>CT 063 5-02</p>  | <p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0306 7133</p>  | <p>BILLING: P/P</p> <p>Reference # 1: 411183 - Waterford CT</p> <p><small>CS 22.0.18. WINTNV50 6.DA 01/2022*</small></p>  |
|--|---|--|---|

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030303067133

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

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Delivered To

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

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

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450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

| | | | |
|--|---|--|---|
| <p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CASSANDRA ROSENKRANZ CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: COHANZIE FIRE COMPANY NO 5 INC. 53 DAYTON ROAD WATERFORD CT 06385-4207</p> | <p>CT 063 5-02</p>   | <p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1649 6146</p>  | <p>BILLING: P/P</p> <p>Reference # 1: 411183 - Waterford CT</p> <p><small>CS 22.0.18. WINTNV50 6.DA 01/2022*</small></p>  |
|--|---|--|---|

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030316496146

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

01/31/2022

Delivered On

02/17/2022 3:03 P.M.

Delivered To

WATERFORD, CT, US

Received By

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Receiver

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

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302

BUILDING DEPARTMENT
TOWN OF WATERFORD, CONNECTICUT

BUILDING PERMIT

Permit #15308
Date issued: 11/20/98
Zoning Permit #98-325

Est. Cost \$389,336.00
Permit Fee \$0.00
C of O Fee \$0.00

PERMISSION IS HEREBY GRANTED FOR THE FOLLOWING:

Description:
tower foundation and building

Property Address: 53 Dayton Road

Owner: Cohanzie Fire Department
Address: 53 Dayton Road
Waterford, CT 06385

Telephone: 860-444-1910

Leassee:

Contractor: Standard Builders
Address: 52 Holmes Road
Newington, CT 06111-1708

License #: 00900085
Telephone: 860-947-43

NOTE: The recipient of this permit accepts this permit on the condition that he, as owner, or as representing the owner, agrees to comply with all building and zoning ordinances of the Town of Waterford and the State Statues of the State of Connecticut. regarding the use, occupancy, and type of building to be constructed and agrees that this building is to be located the proper distances from all other zones and is located in a zone in which the building and its use is allowed.


Building Official

Todor

BUILDING DEPARTMENT
TOWN OF WATERFORD, CONNECTICUT

BUILDING PERMIT

Permit #15309
Date Issued: 11/20/98
Zoning Permit # - 0

Est. Cost \$0.00
Permit Fee \$0.00
C of O Fee \$0.00

PERMISSION IS HEREBY GRANTED FOR THE FOLLOWING:

Description:
Radio tower

Property Address: 53 Dayton Road

Owner: Cohanzie Fire Department
Address: 53 Dayton Road
Waterford, CT 06385

Telephone: 860-444-1910

Leassee:

Contractor: Standard Builders
Address: 52 Holmes Road
Newington, CT 06111

License #: 00900085
Telephone: 860-594-7143

NOTE: The recipient of this permit accepts this permit on the condition that he, as owner, or as representing the owner, agrees to comply with all building and zoning ordinances of the Town of Waterford and the State Statues of the State of Connecticut regarding the use, occupancy, and type of building to be constructed and agrees that this building is to be located the proper distances from all other zones and is located in a zone in which the building and its use is allowed.

[Signature]
Building Official



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 180 ft Self Supported Tower
ATC Site Name : WATERFORD CT, CT
ATC Asset Number : 411183
Engineering Number : 13698641_C3_02
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : WATERFORD CT
Carrier Site Number : 468757
Site Location : 53 Dayton Rd.
Waterford, CT 06385-4274
41.377800,-72.141400
County : New London
Date : July 26, 2021
Max Usage : 43%
Result : Pass

Prepared By:
Ryan D. Ciamillo, E.I.
Structural Engineer

Reviewed By:



Authorized by "EOR"
27 Jul 2021 09:02:57

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft self supported tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

| | |
|----------------------------|---|
| Tower Drawings | Rohn Drawing #A982166, dated August 20, 1998 |
| Foundation Drawing | Rohn Drawing #A982167-1, dated August 20, 1998 |
| Geotechnical Report | Clarence Welti Site Name Cohenzie Fire Station; Waterford, CT, dated March 24, 1997 |

Analysis

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

| | |
|--------------------------------------|--|
| Basic Wind Speed: | 126 mph (3-Second Gust) |
| Basic Wind Speed w/ Ice: | 50 mph (3-Second Gust) w/ 1" radial ice concurrent |
| Code: | ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code |
| Exposure Category: | B |
| Risk Category: | II |
| Topographic Factor Procedure: | Method 1 |
| Topographic Category: | 1 |
| Spectral Response: | $S_s = 0.19, S_1 = 0.05$ |
| Site Class: | D - Stiff Soil |

Conclusion

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

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



Existing and Reserved Equipment

| Elev. ¹ (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|-------------------------|-----|---|---------------------------|--|-------------------------------------|
| 189.0 | 1 | Generic 15' Omni | Sector Frame and Side Arm | (4) 7/8" Coax (2) 7/8" Coax | TOWN OF WATERFORD POLICE DEPARTMENT |
| 188.0 | 1 | Generic 15' Omni | | | |
| 187.0 | 2 | Generic 15' Omni | | | |
| 182.0 | 2 | Generic 8' Omni | | | |
| 181.0 | 1 | Generic 5' Omni | | | |
| | 1 | dbSpectra ATS4TMA4-4 | | | |
| 170.0 | 1 | Generic 13' Omni | Leg | (1) 7/8" Coax | |
| 166.0 | 3 | Generic 12" x 9" x 6" TMA | Sector Frame | (5) 1 1/4" Hybriflex Cable (18) 1 5/8" Coax (1) 1 5/8" Hybriflex (3) 7/8" Coax | T-MOBILE |
| | 3 | Ericsson Radio 4449 B71 B85A | | | |
| | 3 | Ericsson RRUS 4415 B25 | | | |
| | 3 | Ericsson Air6449 B41 | | | |
| | 3 | Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs) | | | |
| | 3 | Ericsson AIR32 B66Aa/B2a | | | |
| | 3 | RFS APXVAARR24_43-U-NA20 | | | |
| 157.0 | 3 | Ericsson RRUS 4478 B14 | Sector Frame | (3) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (1) 2" conduit | AT&T MOBILITY |
| | 3 | Ericsson RRUS 4426 B66 | | | |
| | 3 | Raycap DC6-48-60-18-8F (23.5" Height) | | | |
| | 6 | Powerwave Allgon LGP21401 | | | |
| | 6 | Kaelus DBCT108F1V92-1 | | | |
| | 3 | Ericsson RRUS 4478 B5 (56.1 lbs) | | | |
| | 3 | Kathrein Scala 80010966 | | | |
| | 3 | CCI TPA-65R-LCUUUU-H8 | | | |
| | 3 | CCI HPA-65R-BUUU-H8 | | | |
| | 3 | Powerwave Allgon 7770.00 | | | |
| | 3 | Ericsson RRUS-32 (77 lbs) | | | |
| | 3 | Ericsson RRUS 32 B2 | | | |
| | 3 | Ericsson RRUS-11 (50 lbs.) | | | |
| 156.0 | 1 | Generic 15' Omni | Side Arm | (1) 1 5/8" Coax | TOWN OF WATERFORD POLICE DEPARTMENT |
| 144.0 | 3 | JMA Wireless MX08FRO665-21 | Sector Frame | (1) 1.60" (40.6mm) Hybrid | DISH WIRELESS L.L.C. |
| | 1 | Commscope RDIDC-9181-PF-48 | | | |
| | 3 | Fujitsu TA08025-B605 | | | |
| | 3 | Fujitsu TA08025-B604 | | | |
| 132.0 | 1 | VZW Unused Reserve (16430.43 sqin) | Sector Frame | (2) 1 5/8" Hybriflex | VERIZON WIRELESS |
| | 3 | Samsung Outdoor CBRS 20W RRH | | | |
| | 2 | Raycap RRFDC-1064-PF-48 | | | |
| | 3 | Samsung B5/B13 RRH-BR04C | | | |
| | 6 | JMA Wireless MX06FRO660-02 | | | |
| | 3 | Samsung CBRS 64T64R MMU | | | |
| | 3 | Samsung B2/B66A RRH-BR049 | | | |



Equipment to be Removed

| Elev. ¹ (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|--|-----|-----------|------------|-------|---------|
| No loading was considered as removed as part of this analysis. | | | | | |

Proposed Equipment

| Elev. ¹ (ft) | Qty | Equipment | Mount Type | Lines | Carrier |
|-------------------------|-----|-----------------------|--------------|-----------------|------------------|
| 132.0 | 3 | Samsung MT6407-77A | Sector Frame | (6) 1 5/8" Coax | VERIZON WIRELESS |
| | 3 | Andrew LNX-6512DS-A1M | | | |

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

Install proposed lines alongside existing VERIZON WIRELESS lines.



Structure Usages

| Structural Component | Controlling Usage | Pass/Fail |
|----------------------|-------------------|-----------|
| Legs | 41% | Pass |
| Diagonals | 43% | Pass |
| Horizontals | 39% | Pass |
| Anchor Bolts | 34% | Pass |
| Leg Bolts | 31% | Pass |

Foundations

| Reaction Component | Original Design Reactions | Factored Design Reactions* | Analysis Reactions | % of Design |
|--------------------|---------------------------|----------------------------|--------------------|-------------|
| Uplift (Kips) | 621.3 | 838.8 | 277.5 | 33% |
| Axial (Kips) | 732.9 | 989.4 | 322.3 | 33% |
| Shear (Kips) | 141.8 | 191.4 | 59.8 | 31% |

* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

| Antenna Elevation (ft) | Antenna | Carrier | Deflection (ft) | Twist (°) | Sway (Rotation) (°) |
|------------------------|-----------------------|------------------|-----------------|-----------|---------------------|
| 132.0 | Samsung MT6407-77A | VERIZON WIRELESS | 0.091 | 0.004 | 0.088 |
| | Andrew LNX-6512DS-A1M | | | | |

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



Standard Conditions

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

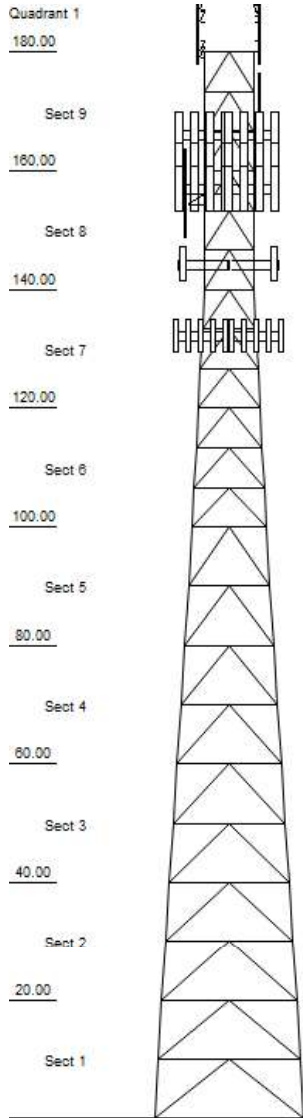
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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

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

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

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



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Loads: 126 mph no ice
50 mph w/ 1" radial ice
Site Class: D Ss: 0.19 S1: 0.05
60 mph Serviceability

| Job Information | | | |
|---------------------------|--------------------------|-----------------------|--|
| Client : VERIZON WIRELESS | | | |
| Tower : 411183 | Location : WATERFORD CT, | Base Width : 25.55 ft | |
| Code : ANSI/TIA-222-H | Topo Method: Method 1 | Top Width : 8.50 ft | |
| Risk Cat : II | Topo: 1 | Tower Ht : 180.00 ft | |
| | Exposure : B | Shape : Triangle | |

| Sections Properties | | | | |
|---------------------|----------------------------|----------------------------|----------------------------|--|
| Section | Leg Members | Diagonal Members | Horizontal Members | |
| 1 - 2 | PX 50 ksi 12" DIA PIPE | PST 50 ksi 3-1/2" DIA PIPE | PST 50 ksi 3" DIA PIPE | |
| 3 - 4 | PX 50 ksi 10" DIA PIPE | PX 50 ksi 3" DIA PIPE | PST 50 ksi 2-1/2" DIA PIPE | |
| 5 | PSP 50 ksi 8.75" OD x 0.5" | PX 50 ksi 3" DIA PIPE | PX 50 ksi 2" DIA PIPE | |
| 6 | PX 50 ksi 6" DIA PIPE | PST 50 ksi 2-1/2" DIA PIPE | PST 50 ksi 2" DIA PIPE | |
| 7 | PSP 50 ksi ROHN 5 EH | PST 50 ksi 2-1/2" DIA PIPE | PST 50 ksi 1-1/2" DIA PIPE | |
| 8 | PST 50 ksi 4" DIA PIPE | PST 50 ksi 2-1/2" DIA PIPE | PST 50 ksi 2" DIA PIPE | |
| 9 | PST 50 ksi 3" DIA PIPE | PST 50 ksi 2" DIA PIPE | PST 50 ksi 1-1/2" DIA PIPE | |

| Discrete Appurtenance | | | |
|-----------------------|----------------|-----|---------------------------------|
| Elev (ft) | Type | Qty | Description |
| 189.00 | Whip | 1 | Generic 15' Omni |
| 188.00 | Whip | 1 | Generic 15' Omni |
| 187.00 | Whip | 2 | Generic 15' Omni |
| 182.00 | Whip | 2 | Generic 8' Omni |
| 181.00 | | 1 | dbSpectra ATS4TMA4-4 |
| 181.00 | Whip | 1 | Generic 5' Omni |
| 180.00 | Mounting Frame | 1 | Round Sector Frame |
| 180.00 | Straight Arm | 2 | Round Side Arm |
| 170.00 | Whip | 1 | Generic 13' Omni |
| 166.00 | Mounting Frame | 3 | Round Sector Frame |
| 166.00 | Panel | 3 | RFS APXVAARR24_43-U-NA20 |
| 166.00 | Panel | 3 | Ericsson AIR32 B66Aa/B2a |
| 166.00 | Panel | 3 | Ericsson AIR 21, 1.3M, B2A B4P |
| 166.00 | Panel | 3 | Ericsson Air6449 B41 |
| 166.00 | | 3 | Ericsson RRUS 4415 B25 |
| 166.00 | | 3 | Ericsson Radio 4449 B71 B85A |
| 166.00 | | 3 | Generic 12" x 9" x 6" TMA |
| 157.00 | Mounting Frame | 3 | Generic Flat Light Sector Fram |
| 157.00 | Panel | 3 | Kathrein Scala 80010966 |
| 157.00 | Panel | 3 | CCI TPA-65R-LCUUUU-H8 |
| 157.00 | Panel | 3 | CCI HPA-65R-BUJ-H8 |
| 157.00 | | 3 | Ericsson RRUS-32 (77 lbs) |
| 157.00 | | 3 | Ericsson RRUS 32 B2 |
| 157.00 | | 3 | Ericsson RRUS-11 (50 lbs.) |
| 157.00 | Panel | 3 | Powerwave Allgon 7770.00 |
| 157.00 | | 3 | Ericsson RRUS 4478 B5 (56.1 lb) |
| 157.00 | | 3 | Ericsson RRUS 4478 B14 |
| 157.00 | | 3 | Ericsson RRUS 4426 B66 |
| 157.00 | | 3 | Raycap DC6-48-60-18-8F (23.5" |
| 157.00 | | 6 | Powerwave Allgon LGP21401 |
| 157.00 | | 6 | Kaelus DBCT108F1V92-1 |
| 156.00 | Straight Arm | 1 | Round Side Arm |
| 156.00 | Whip | 1 | Generic 15' Omni |
| 144.00 | Mounting Frame | 3 | Generic Flat Light Sector Fram |
| 144.00 | Panel | 3 | JMA Wireless MX08FRO665-21 |
| 144.00 | | 3 | Fujitsu TA08025-B605 |
| 144.00 | | 3 | Fujitsu TA08025-B604 |
| 144.00 | | 1 | Commscope RDIDC-9181-PF-48 |
| 132.00 | Mounting Frame | 3 | Round Sector Frame |
| 132.00 | Panel | 6 | JMA Wireless MX06FRO660-02 |
| 132.00 | Panel | 3 | Andrew LNX-6512DS-A1M |
| 132.00 | Panel | 3 | Samsung MT6407-77A |
| 132.00 | Panel | 3 | Samsung CBR5 64T64R MMU |
| 132.00 | | 3 | Samsung B2/B66A RRH-BR049 |
| 132.00 | | 3 | Samsung B5/B13 RRH-BR04C |
| 132.00 | | 2 | Raycap RRFDC-1064-PF-48 |

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| Job Information | | |
|---------------------------|--------------------------|-----------------------|
| Client : VERIZON WIRELESS | | |
| Tower : 411183 | Location : WATERFORD CT, | Base Width : 25.55 ft |
| Code : ANSI/TIA-222-H | Topo Method: Method 1 | Top Width : 8.50 ft |
| Risk Cat : II | Topo: 1 | Tower Ht : 180.00 ft |
| | Exposure : B | Shape : Triangle |

| | | |
|--------------|---|--------------------------------|
| 132.00 | 3 | Samsung Outdoor CBRS 20W |
| 132.00 Other | 1 | VZW Unused Reserve (16430.43 s |

Linear Appurtenance

| Elev (ft) | | Qty | Description |
|-----------|--------|-----|----------------------|
| From | To | | |
| 0.00 | 189.00 | 1 | 7/8" Coax |
| 0.00 | 188.00 | 1 | 7/8" Coax |
| 30.00 | 187.00 | 2 | 7/8" Coax |
| 0.00 | 182.00 | 1 | 7/8" Coax |
| 0.00 | 181.00 | 1 | 7/8" Coax |
| 30.00 | 180.00 | 1 | Waveguide |
| 0.00 | 180.00 | 1 | Waveguide |
| 0.00 | 170.00 | 1 | 7/8" Coax |
| 30.00 | 166.00 | 1 | 1 5/8" Hybriflex |
| 30.00 | 166.00 | 5 | 1 1/4" Hybriflex Cab |
| 0.00 | 166.00 | 1 | Waveguide |
| 0.00 | 166.00 | 3 | 7/8" Coax |
| 0.00 | 166.00 | 6 | 1 5/8" Coax |
| 0.00 | 166.00 | 12 | 1 5/8" Coax |
| 30.00 | 157.00 | 1 | Waveguide |
| 30.00 | 157.00 | 1 | 2" conduit |
| 30.00 | 157.00 | 12 | 1 5/8" Coax |
| 30.00 | 157.00 | 6 | 0.78" (19.7mm) 8 AWG |
| 30.00 | 157.00 | 3 | 0.39" (10mm) Fiber T |
| 30.00 | 156.00 | 1 | 1 5/8" Coax |
| 0.00 | 144.00 | 1 | 1.60" (40.6mm) Hybri |
| 0.00 | 132.00 | 2 | 1 5/8" Hybriflex |
| 0.00 | 132.00 | 6 | 1 5/8" Coax |

Global Base Foundation Design Loads

| Load Case | Moment (k-ft) | Vertical (kip) | Horizontal (kip) |
|--------------|---------------|----------------|------------------|
| DL + WL | 6,572.10 | 75.99 | 59.82 |
| DL + WL + IL | 2,042.00 | 146.88 | 19.20 |

Individual Base Foundation Design Loads

| Vertical (kip) | Uplift (kip) | Horizontal (kip) |
|----------------|--------------|------------------|
| 322.35 | 277.51 | 36.84 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:28 PM

Customer: VERIZON WIRELESS

Analysis Parameters

| | | | |
|---------------------|-----------------------|-------------------------|-------|
| Location: | New London County, CT | Height (ft): | 180 |
| Code: | ANSI/TIA-222-H | Base Elevation (ft): | 0.00 |
| Shape: | Triangle | Bottom Face Width (ft): | 25.55 |
| Tower Manufacturer: | Rohn | Top Face Width (ft): | 8.50 |
| Tower Type: | Self Support | Anchor Bolt Detail Type | c |
| Kd: | 0.85 | | |
| Ke: | 0.99 | | |

Ice & Wind Parameters

| | | | |
|-------------------------------|----------|-------------------------------|-----------|
| Exposure Category: | B | Design Windspeed Without Ice: | 126 mph |
| Risk Category: | II | Design Windspeed With Ice: | 50 mph |
| Topographic Factor Procedure: | Method 1 | Operational Windspeed: | 60 mph |
| Topographic Category: | 1 | Design Ice Thickness: | 1.00 in |
| Crest Height: | 0 ft | HMSL: | 186.00 ft |

Seismic Parameters

| | | | |
|--|---------------------------------|-----------------------|-------|
| Analysis Method: | Equivalent Lateral Force Method | | |
| Site Class: | D - Stiff Soil | | |
| Period Based on Rayleigh Method (sec): | 0.65 | | |
| T _L (sec): | 6 | p: | 1.3 |
| S _S : | 0.194 | S ₁ : | 0.053 |
| F _a : | 1.600 | F _V : | 2.400 |
| S _{ds} : | 0.207 | S _{d1} : | 0.085 |
| | | C _S : | 0.043 |
| | | C _{S, Max} : | 0.043 |
| | | C _{S, Min} : | 0.030 |

Load Cases

| | |
|-----------------------------|---|
| 1.2D + 1.0W Normal | 126 mph Normal with No Ice |
| 1.2D + 1.0W 60 deg | 126 mph 60 degree with No Ice |
| 1.2D + 1.0W 90 deg | 126 mph 90 degree with No Ice |
| 0.9D + 1.0W Normal | 126 mph Normal with No Ice (Reduced DL) |
| 0.9D + 1.0W 60 deg | 126 mph 60 deg with No Ice (Reduced DL) |
| 0.9D + 1.0W 90 deg | 126 mph 90 deg with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi Normal | 50 mph Normal with 1.00 in Radial Ice |
| 1.2D + 1.0Di + 1.0Wi 60 deg | 50 mph 60 deg with 1.00 in Radial Ice |
| 1.2D + 1.0Di + 1.0Wi 90 deg | 50 mph 90 deg with 1.00 in Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh Normal | Seismic Normal |
| 1.2D + 1.0Ev + 1.0Eh 60 deg | Seismic 60 deg |
| 1.2D + 1.0Ev + 1.0Eh 90 deg | Seismic 90 deg |
| 0.9D - 1.0Ev + 1.0Eh Normal | Seismic (Reduced DL) Normal |
| 0.9D - 1.0Ev + 1.0Eh 60 deg | Seismic (Reduced DL) 60 deg |
| 0.9D - 1.0Ev + 1.0Eh 90 deg | Seismic (Reduced DL) 90 deg |
| 1.0D + 1.0W Service Normal | Serviceability - 60 mph Wind Normal |
| 1.0D + 1.0W Service 60 deg | Serviceability - 60 mph Wind 60 deg |
| 1.0D + 1.0W Service 90 deg | Serviceability - 60 mph Wind 90 deg |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Tower LoadingDiscrete Appurtenance Properties 1.2D + 1.0W

| Elevation (ft) | Description | Qty | Wt. (lb) | EPA (sf) | Length (ft) | Width (in) | Depth (in) | K _a | Orient. Factor | Vert. Ecc.(ft) | M _u (lb-ft) | Q _z (psf) | F _a (WL) (lb) | P _a (DL) (lb) |
|-------------------|---------------------|-----|-------------|-------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------------------|-------------------------|-----------------------------|-----------------------------|
| 189.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.67 | 156 | 48 |
| 188.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.61 | 155 | 48 |
| 187.0 | Generic 15' Omni | 2 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.55 | 310 | 96 |
| 182.0 | Generic 8' Omni | 2 | 25 | 2.4 | 8.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.24 | 164 | 60 |
| 181.0 | Generic 5' Omni | 1 | 10 | 1.0 | 5.0 | 2.0 | 2.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.18 | 34 | 12 |
| 181.0 | dbSpectra | 1 | 50 | 2.3 | 2.6 | 13.3 | 11.5 | 0.90 | 1.00 | 0.0 | 0.0 | 40.18 | 71 | 60 |
| 180.0 | Round Side Arm | 2 | 150 | 5.2 | 0.0 | 0.0 | 0.0 | 0.90 | 0.90 | 0.0 | 0.0 | 40.11 | 287 | 360 |
| 180.0 | Round Sector Frame | 1 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.11 | 491 | 360 |
| 170.0 | Generic 13' Omni | 1 | 40 | 3.9 | 13.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 39.46 | 131 | 48 |
| 166.0 | Generic 12" x 9" x | 3 | 20 | 0.9 | 1.0 | 9.0 | 6.0 | 0.80 | 0.50 | 0.0 | 0.0 | 39.19 | 36 | 72 |
| 166.0 | Ericsson Radio 4449 | 3 | 75 | 1.6 | 1.3 | 13.2 | 10.5 | 0.80 | 0.50 | 0.0 | 0.0 | 39.19 | 66 | 270 |
| 166.0 | Ericsson RRUS 4415 | 3 | 46 | 1.8 | 1.4 | 13.4 | 5.9 | 0.80 | 0.50 | 0.0 | 0.0 | 39.19 | 74 | 166 |
| 166.0 | Ericsson Air6449 | 3 | 104 | 5.7 | 2.8 | 20.6 | 8.6 | 0.80 | 0.63 | 0.0 | 0.0 | 39.19 | 286 | 374 |
| 166.0 | Ericsson AIR 21, | 3 | 92 | 6.0 | 4.7 | 12.0 | 7.8 | 0.80 | 0.70 | 0.0 | 0.0 | 39.19 | 338 | 329 |
| 166.0 | Ericsson AIR32 | 3 | 132 | 6.5 | 4.7 | 12.9 | 8.7 | 0.80 | 0.71 | 0.0 | 0.0 | 39.19 | 370 | 476 |
| 166.0 | Round Sector Frame | 3 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 39.19 | 810 | 1080 |
| 166.0 | RFS | 3 | 128 | 20.2 | 8.0 | 24.0 | 8.7 | 0.80 | 0.63 | 0.0 | 0.0 | 39.19 | 1020 | 460 |
| 157.0 | Kaelus | 6 | 14 | 0.6 | 0.9 | 7.1 | 6.8 | 0.80 | 0.50 | 0.0 | 0.0 | 38.57 | 50 | 100 |
| 157.0 | Powerwave Allgon | 6 | 14 | 1.1 | 1.2 | 9.2 | 2.6 | 0.80 | 0.50 | 2.0 | 174.4 | 38.71 | 87 | 102 |
| 157.0 | Raycap DC6-48-60- | 3 | 20 | 1.3 | 2.0 | 9.7 | 9.7 | 0.80 | 1.00 | 0.0 | 0.0 | 38.57 | 99 | 72 |
| 157.0 | Ericsson RRUS 4426 | 3 | 48 | 1.6 | 1.3 | 13.2 | 5.8 | 0.80 | 0.50 | 0.0 | 0.0 | 38.57 | 65 | 174 |
| 157.0 | Ericsson RRUS 4478 | 3 | 59 | 2.0 | 1.5 | 13.4 | 8.3 | 0.80 | 0.67 | 0.0 | 0.0 | 38.57 | 107 | 214 |
| 157.0 | Ericsson RRUS 4478 | 3 | 56 | 2.0 | 1.5 | 13.5 | 7.8 | 0.80 | 0.67 | 0.0 | 0.0 | 38.57 | 107 | 202 |
| 157.0 | Ericsson RRUS-11 | 3 | 50 | 2.6 | 1.5 | 17.3 | 7.2 | 0.80 | 0.67 | 2.0 | 271.6 | 38.71 | 136 | 180 |
| 157.0 | Ericsson RRUS 32 B2 | 3 | 53 | 2.7 | 2.3 | 12.1 | 7.0 | 0.80 | 0.67 | 2.0 | 290.3 | 38.71 | 145 | 191 |
| 157.0 | Ericsson RRUS-32 | 3 | 77 | 3.3 | 2.5 | 13.3 | 9.5 | 0.80 | 0.71 | 2.0 | 371.7 | 38.71 | 186 | 277 |
| 157.0 | Powerwave Allgon | 3 | 35 | 5.5 | 4.6 | 11.0 | 5.0 | 0.80 | 0.65 | 2.0 | 565.5 | 38.71 | 283 | 126 |
| 157.0 | CCI HPA-65R-BUU-H8 | 3 | 68 | 13.0 | 7.7 | 14.8 | 7.4 | 0.80 | 0.67 | 2.0 | 1373.3 | 38.71 | 687 | 245 |
| 157.0 | CCI TPA-65R- | 3 | 82 | 13.3 | 8.0 | 14.4 | 8.6 | 0.80 | 0.69 | 2.0 | 1449.3 | 38.71 | 725 | 294 |
| 157.0 | Kathrein Scala | 3 | 115 | 17.4 | 8.0 | 20.0 | 6.9 | 0.80 | 0.63 | 0.0 | 0.0 | 38.57 | 861 | 413 |
| 157.0 | Generic Flat Light | 3 | 400 | 17.9 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 38.57 | 990 | 1440 |
| 156.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 38.50 | 147 | 48 |
| 156.0 | Round Side Arm | 1 | 150 | 5.2 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 38.50 | 170 | 180 |
| 144.0 | Commscope RDIDC- | 1 | 22 | 1.9 | 1.3 | 14.0 | 8.0 | 0.80 | 1.00 | 0.0 | 0.0 | 37.63 | 48 | 26 |
| 144.0 | Fujitsu TA08025- | 3 | 64 | 2.0 | 1.3 | 15.0 | 7.9 | 0.80 | 0.50 | 0.0 | 0.0 | 37.63 | 75 | 230 |
| 144.0 | Fujitsu TA08025- | 3 | 75 | 2.0 | 1.3 | 15.0 | 9.1 | 0.80 | 0.50 | 0.0 | 0.0 | 37.63 | 75 | 270 |
| 144.0 | JMA Wireless | 3 | 65 | 12.5 | 6.0 | 20.0 | 8.0 | 0.80 | 0.64 | 0.0 | 0.0 | 37.63 | 614 | 232 |
| 144.0 | Generic Flat Light | 3 | 400 | 17.9 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 37.63 | 966 | 1440 |
| 132.0 | Samsung Outdoor | 3 | 19 | 0.9 | 1.0 | 8.5 | 4.1 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 32 | 67 |
| 132.0 | Raycap RRFDC-1064- | 2 | 14 | 1.2 | 1.1 | 10.2 | 8.2 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 29 | 34 |
| 132.0 | Samsung B5/B13 | 3 | 70 | 1.9 | 1.3 | 15.0 | 8.1 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 70 | 253 |
| 132.0 | Samsung B2/B66A | 3 | 84 | 1.9 | 1.3 | 15.0 | 10.0 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 70 | 304 |
| 132.0 | Samsung CBRS | 3 | 75 | 4.5 | 2.4 | 18.8 | 4.8 | 0.80 | 0.58 | 0.0 | 0.0 | 36.71 | 195 | 270 |
| 132.0 | Samsung MT6407- | 3 | 82 | 4.7 | 2.9 | 16.1 | 5.5 | 0.80 | 0.61 | 0.0 | 0.0 | 36.71 | 215 | 294 |
| 132.0 | Andrew LNX- | 3 | 30 | 5.1 | 4.0 | 11.9 | 7.1 | 0.80 | 0.69 | 0.0 | 0.0 | 36.71 | 263 | 109 |
| 132.0 | JMA Wireless | 6 | 46 | 9.9 | 5.9 | 15.4 | 10.7 | 0.80 | 0.71 | 0.0 | 0.0 | 36.71 | 1050 | 331 |
| 132.0 | Round Sector Frame | 3 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 0.75 | 0.67 | 0.0 | 0.0 | 36.71 | 677 | 1080 |
| 132.0 | VZW Unused | 1 | 1116 | 114.1 | 0.0 | 0.0 | 0.0 | 0.80 | 0.90 | 0.0 | 0.0 | 36.71 | 2563 | 1339 |
| | Totals | 129 | 12379 | 875.0 | | | | | | | | | 16586 | 14855 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Tower Loading

Discrete Appurtenance Properties 0.9D + 1.0W

| Elevation (ft) | Description | Qty | Wt. (lb) | EPA (sf) | Length (ft) | Width (in) | Depth (in) | K _a | Orient. Factor | Vert. Ecc.(ft) | M _u (lb-ft) | Q _z (psf) | F _a (WL) (lb) | P _a (DL) (lb) |
|----------------|---------------------|------------|--------------|--------------|-------------|------------|------------|----------------|----------------|----------------|------------------------|----------------------|--------------------------|--------------------------|
| 189.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.67 | 156 | 36 |
| 188.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.61 | 155 | 36 |
| 187.0 | Generic 15' Omni | 2 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.55 | 310 | 72 |
| 182.0 | Generic 8' Omni | 2 | 25 | 2.4 | 8.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.24 | 164 | 45 |
| 181.0 | Generic 5' Omni | 1 | 10 | 1.0 | 5.0 | 2.0 | 2.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.18 | 34 | 9 |
| 181.0 | dbSpectra | 1 | 50 | 2.3 | 2.6 | 13.3 | 11.5 | 0.90 | 1.00 | 0.0 | 0.0 | 40.18 | 71 | 45 |
| 180.0 | Round Side Arm | 2 | 150 | 5.2 | 0.0 | 0.0 | 0.0 | 0.90 | 0.90 | 0.0 | 0.0 | 40.11 | 287 | 270 |
| 180.0 | Round Sector Frame | 1 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 40.11 | 491 | 270 |
| 170.0 | Generic 13' Omni | 1 | 40 | 3.9 | 13.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 39.46 | 131 | 36 |
| 166.0 | Generic 12" x 9" x | 3 | 20 | 0.9 | 1.0 | 9.0 | 6.0 | 0.80 | 0.50 | 0.0 | 0.0 | 39.19 | 36 | 54 |
| 166.0 | Ericsson Radio 4449 | 3 | 75 | 1.6 | 1.3 | 13.2 | 10.5 | 0.80 | 0.50 | 0.0 | 0.0 | 39.19 | 66 | 203 |
| 166.0 | Ericsson RRUS 4415 | 3 | 46 | 1.8 | 1.4 | 13.4 | 5.9 | 0.80 | 0.50 | 0.0 | 0.0 | 39.19 | 74 | 124 |
| 166.0 | Ericsson Air6449 | 3 | 104 | 5.7 | 2.8 | 20.6 | 8.6 | 0.80 | 0.63 | 0.0 | 0.0 | 39.19 | 286 | 281 |
| 166.0 | Ericsson AIR 21, | 3 | 92 | 6.0 | 4.7 | 12.0 | 7.8 | 0.80 | 0.70 | 0.0 | 0.0 | 39.19 | 338 | 247 |
| 166.0 | Ericsson AIR32 | 3 | 132 | 6.5 | 4.7 | 12.9 | 8.7 | 0.80 | 0.71 | 0.0 | 0.0 | 39.19 | 370 | 357 |
| 166.0 | Round Sector Frame | 3 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 39.19 | 810 | 810 |
| 166.0 | RFS | 3 | 128 | 20.2 | 8.0 | 24.0 | 8.7 | 0.80 | 0.63 | 0.0 | 0.0 | 39.19 | 1020 | 345 |
| 157.0 | Kaelus | 6 | 14 | 0.6 | 0.9 | 7.1 | 6.8 | 0.80 | 0.50 | 0.0 | 0.0 | 38.57 | 50 | 75 |
| 157.0 | Powerwave Allgon | 6 | 14 | 1.1 | 1.2 | 9.2 | 2.6 | 0.80 | 0.50 | 2.0 | 174.4 | 38.71 | 87 | 76 |
| 157.0 | Raycap DC6-48-60- | 3 | 20 | 1.3 | 2.0 | 9.7 | 9.7 | 0.80 | 1.00 | 0.0 | 0.0 | 38.57 | 99 | 54 |
| 157.0 | Ericsson RRUS 4426 | 3 | 48 | 1.6 | 1.3 | 13.2 | 5.8 | 0.80 | 0.50 | 0.0 | 0.0 | 38.57 | 65 | 131 |
| 157.0 | Ericsson RRUS 4478 | 3 | 59 | 2.0 | 1.5 | 13.4 | 8.3 | 0.80 | 0.67 | 0.0 | 0.0 | 38.57 | 107 | 160 |
| 157.0 | Ericsson RRUS 4478 | 3 | 56 | 2.0 | 1.5 | 13.5 | 7.8 | 0.80 | 0.67 | 0.0 | 0.0 | 38.57 | 107 | 151 |
| 157.0 | Ericsson RRUS-11 | 3 | 50 | 2.6 | 1.5 | 17.3 | 7.2 | 0.80 | 0.67 | 2.0 | 271.6 | 38.71 | 136 | 135 |
| 157.0 | Ericsson RRUS 32 B2 | 3 | 53 | 2.7 | 2.3 | 12.1 | 7.0 | 0.80 | 0.67 | 2.0 | 290.3 | 38.71 | 145 | 143 |
| 157.0 | Ericsson RRUS-32 | 3 | 77 | 3.3 | 2.5 | 13.3 | 9.5 | 0.80 | 0.71 | 2.0 | 371.7 | 38.71 | 186 | 208 |
| 157.0 | Powerwave Allgon | 3 | 35 | 5.5 | 4.6 | 11.0 | 5.0 | 0.80 | 0.65 | 2.0 | 565.5 | 38.71 | 283 | 95 |
| 157.0 | CCI HPA-65R-BUU-H8 | 3 | 68 | 13.0 | 7.7 | 14.8 | 7.4 | 0.80 | 0.67 | 2.0 | 1373.3 | 38.71 | 687 | 184 |
| 157.0 | CCI TPA-65R- | 3 | 82 | 13.3 | 8.0 | 14.4 | 8.6 | 0.80 | 0.69 | 2.0 | 1449.3 | 38.71 | 725 | 220 |
| 157.0 | Kathrein Scala | 3 | 115 | 17.4 | 8.0 | 20.0 | 6.9 | 0.80 | 0.63 | 0.0 | 0.0 | 38.57 | 861 | 309 |
| 157.0 | Generic Flat Light | 3 | 400 | 17.9 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 38.57 | 990 | 1080 |
| 156.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 38.50 | 147 | 36 |
| 156.0 | Round Side Arm | 1 | 150 | 5.2 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 38.50 | 170 | 135 |
| 144.0 | Commscope RDIDC- | 1 | 22 | 1.9 | 1.3 | 14.0 | 8.0 | 0.80 | 1.00 | 0.0 | 0.0 | 37.63 | 48 | 20 |
| 144.0 | Fujitsu TA08025- | 3 | 64 | 2.0 | 1.3 | 15.0 | 7.9 | 0.80 | 0.50 | 0.0 | 0.0 | 37.63 | 75 | 173 |
| 144.0 | Fujitsu TA08025- | 3 | 75 | 2.0 | 1.3 | 15.0 | 9.1 | 0.80 | 0.50 | 0.0 | 0.0 | 37.63 | 75 | 203 |
| 144.0 | JMA Wireless | 3 | 65 | 12.5 | 6.0 | 20.0 | 8.0 | 0.80 | 0.64 | 0.0 | 0.0 | 37.63 | 614 | 174 |
| 144.0 | Generic Flat Light | 3 | 400 | 17.9 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 37.63 | 966 | 1080 |
| 132.0 | Samsung Outdoor | 3 | 19 | 0.9 | 1.0 | 8.5 | 4.1 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 32 | 50 |
| 132.0 | Raycap RRFDC-1064- | 2 | 14 | 1.2 | 1.1 | 10.2 | 8.2 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 29 | 25 |
| 132.0 | Samsung B5/B13 | 3 | 70 | 1.9 | 1.3 | 15.0 | 8.1 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 70 | 190 |
| 132.0 | Samsung B2/B66A | 3 | 84 | 1.9 | 1.3 | 15.0 | 10.0 | 0.80 | 0.50 | 0.0 | 0.0 | 36.71 | 70 | 228 |
| 132.0 | Samsung CBRS | 3 | 75 | 4.5 | 2.4 | 18.8 | 4.8 | 0.80 | 0.58 | 0.0 | 0.0 | 36.71 | 195 | 203 |
| 132.0 | Samsung MT6407- | 3 | 82 | 4.7 | 2.9 | 16.1 | 5.5 | 0.80 | 0.61 | 0.0 | 0.0 | 36.71 | 215 | 220 |
| 132.0 | Andrew LNX- | 3 | 30 | 5.1 | 4.0 | 11.9 | 7.1 | 0.80 | 0.69 | 0.0 | 0.0 | 36.71 | 263 | 82 |
| 132.0 | JMA Wireless | 6 | 46 | 9.9 | 5.9 | 15.4 | 10.7 | 0.80 | 0.71 | 0.0 | 0.0 | 36.71 | 1050 | 248 |
| 132.0 | Round Sector Frame | 3 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 0.75 | 0.67 | 0.0 | 0.0 | 36.71 | 677 | 810 |
| 132.0 | VZW Unused | 1 | 1116 | 114.1 | 0.0 | 0.0 | 0.0 | 0.80 | 0.90 | 0.0 | 0.0 | 36.71 | 2563 | 1004 |
| Totals | | 129 | 12379 | 875.0 | | | | | | | | | 16586 | 11141 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Tower Loading

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

| Elevation (ft) | Description | Qty | Ice Wt (lb) | Ice EPA (sf) | Length (ft) | Width (in) | Depth (in) | K _a | Orient. Factor | Vert. Ecc.(ft) | M _u (lb-ft) | Q _z (psf) | F _a (WL) (lb) | P _a (DL) (lb) |
|----------------|---------------------|------------|--------------|---------------|-------------|------------|------------|----------------|----------------|----------------|------------------------|----------------------|--------------------------|--------------------------|
| 189.0 | Generic 15' Omni | 1 | 117 | 8.1 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.41 | 44 | 125 |
| 188.0 | Generic 15' Omni | 1 | 117 | 8.1 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.40 | 44 | 125 |
| 187.0 | Generic 15' Omni | 2 | 117 | 8.1 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.39 | 88 | 249 |
| 182.0 | Generic 8' Omni | 2 | 66 | 4.3 | 8.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.34 | 46 | 143 |
| 181.0 | Generic 5' Omni | 1 | 29 | 1.9 | 5.0 | 2.0 | 2.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.33 | 10 | 31 |
| 181.0 | dbSpectra | 1 | 109 | 2.9 | 2.6 | 13.3 | 11.5 | 0.90 | 1.00 | 0.0 | 0.0 | 6.33 | 14 | 119 |
| 180.0 | Round Side Arm | 2 | 199 | 7.0 | 0.0 | 0.0 | 0.0 | 0.90 | 0.90 | 0.0 | 0.0 | 6.32 | 61 | 459 |
| 180.0 | Round Sector Frame | 1 | 549 | 25.6 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.32 | 137 | 609 |
| 170.0 | Generic 13' Omni | 1 | 106 | 7.0 | 13.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.21 | 37 | 114 |
| 166.0 | Generic 12" x 9" x | 3 | 40 | 1.3 | 1.0 | 9.0 | 6.0 | 0.80 | 0.50 | 0.0 | 0.0 | 6.17 | 8 | 132 |
| 166.0 | Ericsson Radio 4449 | 3 | 116 | 2.2 | 1.3 | 13.2 | 10.5 | 0.80 | 0.50 | 0.0 | 0.0 | 6.17 | 14 | 392 |
| 166.0 | Ericsson RRUS 4415 | 3 | 79 | 2.4 | 1.4 | 13.4 | 5.9 | 0.80 | 0.50 | 0.0 | 0.0 | 6.17 | 15 | 265 |
| 166.0 | Ericsson Air6449 | 3 | 196 | 6.8 | 2.8 | 20.6 | 8.6 | 0.80 | 0.63 | 0.0 | 0.0 | 6.17 | 54 | 651 |
| 166.0 | Ericsson AIR 21, | 3 | 190 | 7.5 | 4.7 | 12.0 | 7.8 | 0.80 | 0.70 | 0.0 | 0.0 | 6.17 | 66 | 625 |
| 166.0 | Ericsson AIR32 | 3 | 240 | 8.0 | 4.7 | 12.9 | 8.7 | 0.80 | 0.71 | 0.0 | 0.0 | 6.17 | 71 | 800 |
| 166.0 | Round Sector Frame | 3 | 549 | 25.6 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 6.17 | 227 | 1826 |
| 166.0 | RFS | 3 | 393 | 22.8 | 8.0 | 24.0 | 8.7 | 0.80 | 0.63 | 0.0 | 0.0 | 6.17 | 180 | 1257 |
| 157.0 | Kaelus | 6 | 31 | 1.0 | 0.9 | 7.1 | 6.8 | 0.80 | 0.50 | 0.0 | 0.0 | 6.07 | 12 | 201 |
| 157.0 | Powerwave Allgon | 6 | 31 | 1.6 | 1.2 | 9.2 | 2.6 | 0.80 | 0.50 | 2.0 | 39.3 | 6.10 | 20 | 202 |
| 157.0 | Raycap DC6-48-60- | 3 | 55 | 1.7 | 2.0 | 9.7 | 9.7 | 0.80 | 1.00 | 0.0 | 0.0 | 6.07 | 21 | 178 |
| 157.0 | Ericsson RRUS 4426 | 3 | 78 | 2.2 | 1.3 | 13.2 | 5.8 | 0.80 | 0.50 | 0.0 | 0.0 | 6.07 | 14 | 264 |
| 157.0 | Ericsson RRUS 4478 | 3 | 100 | 2.7 | 1.5 | 13.4 | 8.3 | 0.80 | 0.67 | 0.0 | 0.0 | 6.07 | 22 | 337 |
| 157.0 | Ericsson RRUS 4478 | 3 | 96 | 2.7 | 1.5 | 13.5 | 7.8 | 0.80 | 0.67 | 0.0 | 0.0 | 6.07 | 22 | 322 |
| 157.0 | Ericsson RRUS-11 | 3 | 96 | 3.3 | 1.5 | 17.3 | 7.2 | 0.80 | 0.67 | 2.0 | 54.4 | 6.10 | 27 | 317 |
| 157.0 | Ericsson RRUS 32 B2 | 3 | 102 | 3.5 | 2.3 | 12.1 | 7.0 | 0.80 | 0.67 | 2.0 | 58.7 | 6.10 | 29 | 338 |
| 157.0 | Ericsson RRUS-32 | 3 | 142 | 4.2 | 2.5 | 13.3 | 9.5 | 0.80 | 0.71 | 2.0 | 73.7 | 6.10 | 37 | 472 |
| 157.0 | Powerwave Allgon | 3 | 118 | 6.2 | 4.6 | 11.0 | 5.0 | 0.80 | 0.65 | 2.0 | 100.2 | 6.10 | 50 | 376 |
| 157.0 | CCI HPA-65R-BUU-H8 | 3 | 240 | 15.4 | 7.7 | 14.8 | 7.4 | 0.80 | 0.67 | 2.0 | 256.1 | 6.10 | 128 | 760 |
| 157.0 | CCI TPA-65R- | 3 | 267 | 15.8 | 8.0 | 14.4 | 8.6 | 0.80 | 0.69 | 2.0 | 271.0 | 6.10 | 136 | 848 |
| 157.0 | Kathrein Scala | 3 | 329 | 19.8 | 8.0 | 20.0 | 6.9 | 0.80 | 0.63 | 0.0 | 0.0 | 6.07 | 155 | 1056 |
| 157.0 | Generic Flat Light | 3 | 601 | 28.0 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 6.07 | 244 | 2043 |
| 156.0 | Generic 15' Omni | 1 | 116 | 8.1 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.06 | 42 | 124 |
| 156.0 | Round Side Arm | 1 | 199 | 7.0 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 6.06 | 36 | 229 |
| 144.0 | Commscope RDIDC- | 1 | 60 | 2.5 | 1.3 | 14.0 | 8.0 | 0.80 | 1.00 | 0.0 | 0.0 | 5.93 | 10 | 64 |
| 144.0 | Fujitsu TA08025- | 3 | 103 | 2.6 | 1.3 | 15.0 | 7.9 | 0.80 | 0.50 | 0.0 | 0.0 | 5.93 | 16 | 347 |
| 144.0 | Fujitsu TA08025- | 3 | 117 | 2.6 | 1.3 | 15.0 | 9.1 | 0.80 | 0.50 | 0.0 | 0.0 | 5.93 | 16 | 396 |
| 144.0 | JMA Wireless | 3 | 236 | 14.4 | 6.0 | 20.0 | 8.0 | 0.80 | 0.64 | 0.0 | 0.0 | 5.93 | 111 | 747 |
| 144.0 | Generic Flat Light | 3 | 601 | 28.0 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 5.93 | 238 | 2043 |
| 132.0 | Samsung Outdoor | 3 | 34 | 1.3 | 1.0 | 8.5 | 4.1 | 0.80 | 0.50 | 0.0 | 0.0 | 5.78 | 7 | 114 |
| 132.0 | Raycap RRFDC-1064- | 2 | 41 | 1.6 | 1.1 | 10.2 | 8.2 | 0.80 | 0.50 | 0.0 | 0.0 | 5.78 | 6 | 88 |
| 132.0 | Samsung B5/B13 | 3 | 108 | 2.5 | 1.3 | 15.0 | 8.1 | 0.80 | 0.50 | 0.0 | 0.0 | 5.78 | 15 | 366 |
| 132.0 | Samsung B2/B66A | 3 | 126 | 2.5 | 1.3 | 15.0 | 10.0 | 0.80 | 0.50 | 0.0 | 0.0 | 5.78 | 15 | 430 |
| 132.0 | Samsung CBRS | 3 | 136 | 5.4 | 2.4 | 18.8 | 4.8 | 0.80 | 0.58 | 0.0 | 0.0 | 5.78 | 37 | 454 |
| 132.0 | Samsung MT6407- | 3 | 149 | 5.7 | 2.9 | 16.1 | 5.5 | 0.80 | 0.61 | 0.0 | 0.0 | 5.78 | 41 | 495 |
| 132.0 | Andrew LNX- | 3 | 110 | 6.3 | 4.0 | 11.9 | 7.1 | 0.80 | 0.69 | 0.0 | 0.0 | 5.78 | 52 | 348 |
| 132.0 | JMA Wireless | 6 | 204 | 11.7 | 5.9 | 15.4 | 10.7 | 0.80 | 0.71 | 0.0 | 0.0 | 5.78 | 196 | 1279 |
| 132.0 | Round Sector Frame | 3 | 542 | 25.3 | 0.0 | 0.0 | 0.0 | 0.75 | 0.67 | 0.0 | 0.0 | 5.78 | 187 | 1807 |
| 132.0 | VZW Unused | 1 | 1628 | 166.4 | 0.0 | 0.0 | 0.0 | 0.80 | 0.90 | 0.0 | 0.0 | 5.78 | 589 | 1851 |
| Totals | | 129 | 24339 | 1200.6 | | | | | | | | | 3647 | 26815 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Tower Loading

Discrete Appurtenance Properties 1.0D + 1.0W Service

| Elevation (ft) | Description | Qty | Wt. (lb) | EPA (sf) | Length (ft) | Width (in) | Depth (in) | K _a | Orient. Factor | Vert. Ecc.(ft) | M _u (lb-ft) | Q _z (psf) | F _a (WL) (lb) | P _a (DL) (lb) |
|----------------|---------------------|------------|--------------|--------------|-------------|------------|------------|----------------|----------------|----------------|------------------------|----------------------|--------------------------|--------------------------|
| 189.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 9.22 | 35 | 40 |
| 188.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 9.21 | 35 | 40 |
| 187.0 | Generic 15' Omni | 2 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 9.20 | 70 | 80 |
| 182.0 | Generic 8' Omni | 2 | 25 | 2.4 | 8.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 9.12 | 37 | 50 |
| 181.0 | Generic 5' Omni | 1 | 10 | 1.0 | 5.0 | 2.0 | 2.0 | 1.00 | 1.00 | 0.0 | 0.0 | 9.11 | 8 | 10 |
| 181.0 | dbSpectra | 1 | 50 | 2.3 | 2.6 | 13.3 | 11.5 | 0.90 | 1.00 | 0.0 | 0.0 | 9.11 | 16 | 50 |
| 180.0 | Round Side Arm | 2 | 150 | 5.2 | 0.0 | 0.0 | 0.0 | 0.90 | 0.90 | 0.0 | 0.0 | 9.10 | 65 | 300 |
| 180.0 | Round Sector Frame | 1 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 9.10 | 111 | 300 |
| 170.0 | Generic 13' Omni | 1 | 40 | 3.9 | 13.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 8.95 | 30 | 40 |
| 166.0 | Generic 12" x 9" x | 3 | 20 | 0.9 | 1.0 | 9.0 | 6.0 | 0.80 | 0.50 | 0.0 | 0.0 | 8.89 | 8 | 60 |
| 166.0 | Ericsson Radio 4449 | 3 | 75 | 1.6 | 1.3 | 13.2 | 10.5 | 0.80 | 0.50 | 0.0 | 0.0 | 8.89 | 15 | 225 |
| 166.0 | Ericsson RRUS 4415 | 3 | 46 | 1.8 | 1.4 | 13.4 | 5.9 | 0.80 | 0.50 | 0.0 | 0.0 | 8.89 | 17 | 138 |
| 166.0 | Ericsson Air6449 | 3 | 104 | 5.7 | 2.8 | 20.6 | 8.6 | 0.80 | 0.63 | 0.0 | 0.0 | 8.89 | 65 | 312 |
| 166.0 | Ericsson AIR 21, | 3 | 92 | 6.0 | 4.7 | 12.0 | 7.8 | 0.80 | 0.70 | 0.0 | 0.0 | 8.89 | 77 | 275 |
| 166.0 | Ericsson AIR32 | 3 | 132 | 6.5 | 4.7 | 12.9 | 8.7 | 0.80 | 0.71 | 0.0 | 0.0 | 8.89 | 84 | 397 |
| 166.0 | Round Sector Frame | 3 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 8.89 | 184 | 900 |
| 166.0 | RFS | 3 | 128 | 20.2 | 8.0 | 24.0 | 8.7 | 0.80 | 0.63 | 0.0 | 0.0 | 8.89 | 231 | 384 |
| 157.0 | Kaelus | 6 | 14 | 0.6 | 0.9 | 7.1 | 6.8 | 0.80 | 0.50 | 0.0 | 0.0 | 8.75 | 11 | 83 |
| 157.0 | Powerwave Allgon | 6 | 14 | 1.1 | 1.2 | 9.2 | 2.6 | 0.80 | 0.50 | 2.0 | 39.5 | 8.78 | 20 | 85 |
| 157.0 | Raycap DC6-48-60- | 3 | 20 | 1.3 | 2.0 | 9.7 | 9.7 | 0.80 | 1.00 | 0.0 | 0.0 | 8.75 | 22 | 60 |
| 157.0 | Ericsson RRUS 4426 | 3 | 48 | 1.6 | 1.3 | 13.2 | 5.8 | 0.80 | 0.50 | 0.0 | 0.0 | 8.75 | 15 | 145 |
| 157.0 | Ericsson RRUS 4478 | 3 | 59 | 2.0 | 1.5 | 13.4 | 8.3 | 0.80 | 0.67 | 0.0 | 0.0 | 8.75 | 24 | 178 |
| 157.0 | Ericsson RRUS 4478 | 3 | 56 | 2.0 | 1.5 | 13.5 | 7.8 | 0.80 | 0.67 | 0.0 | 0.0 | 8.75 | 24 | 168 |
| 157.0 | Ericsson RRUS-11 | 3 | 50 | 2.6 | 1.5 | 17.3 | 7.2 | 0.80 | 0.67 | 2.0 | 61.6 | 8.78 | 31 | 150 |
| 157.0 | Ericsson RRUS 32 B2 | 3 | 53 | 2.7 | 2.3 | 12.1 | 7.0 | 0.80 | 0.67 | 2.0 | 65.8 | 8.78 | 33 | 159 |
| 157.0 | Ericsson RRUS-32 | 3 | 77 | 3.3 | 2.5 | 13.3 | 9.5 | 0.80 | 0.71 | 2.0 | 84.3 | 8.78 | 42 | 231 |
| 157.0 | Powerwave Allgon | 3 | 35 | 5.5 | 4.6 | 11.0 | 5.0 | 0.80 | 0.65 | 2.0 | 128.2 | 8.78 | 64 | 105 |
| 157.0 | CCI HPA-65R-BUU-H8 | 3 | 68 | 13.0 | 7.7 | 14.8 | 7.4 | 0.80 | 0.67 | 2.0 | 311.4 | 8.78 | 156 | 204 |
| 157.0 | CCI TPA-65R- | 3 | 82 | 13.3 | 8.0 | 14.4 | 8.6 | 0.80 | 0.69 | 2.0 | 328.6 | 8.78 | 164 | 245 |
| 157.0 | Kathrein Scala | 3 | 115 | 17.4 | 8.0 | 20.0 | 6.9 | 0.80 | 0.63 | 0.0 | 0.0 | 8.75 | 195 | 344 |
| 157.0 | Generic Flat Light | 3 | 400 | 17.9 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 8.75 | 225 | 1200 |
| 156.0 | Generic 15' Omni | 1 | 40 | 4.5 | 15.0 | 3.0 | 3.0 | 1.00 | 1.00 | 0.0 | 0.0 | 8.73 | 33 | 40 |
| 156.0 | Round Side Arm | 1 | 150 | 5.2 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 0.0 | 0.0 | 8.73 | 39 | 150 |
| 144.0 | Commscope RDIDC- | 1 | 22 | 1.9 | 1.3 | 14.0 | 8.0 | 0.80 | 1.00 | 0.0 | 0.0 | 8.53 | 11 | 22 |
| 144.0 | Fujitsu TA08025- | 3 | 64 | 2.0 | 1.3 | 15.0 | 7.9 | 0.80 | 0.50 | 0.0 | 0.0 | 8.53 | 17 | 192 |
| 144.0 | Fujitsu TA08025- | 3 | 75 | 2.0 | 1.3 | 15.0 | 9.1 | 0.80 | 0.50 | 0.0 | 0.0 | 8.53 | 17 | 225 |
| 144.0 | JMA Wireless | 3 | 65 | 12.5 | 6.0 | 20.0 | 8.0 | 0.80 | 0.64 | 0.0 | 0.0 | 8.53 | 139 | 194 |
| 144.0 | Generic Flat Light | 3 | 400 | 17.9 | 0.0 | 0.0 | 0.0 | 0.75 | 0.75 | 0.0 | 0.0 | 8.53 | 219 | 1200 |
| 132.0 | Samsung Outdoor | 3 | 19 | 0.9 | 1.0 | 8.5 | 4.1 | 0.80 | 0.50 | 0.0 | 0.0 | 8.32 | 7 | 56 |
| 132.0 | Raycap RRFDC-1064- | 2 | 14 | 1.2 | 1.1 | 10.2 | 8.2 | 0.80 | 0.50 | 0.0 | 0.0 | 8.32 | 7 | 28 |
| 132.0 | Samsung B5/B13 | 3 | 70 | 1.9 | 1.3 | 15.0 | 8.1 | 0.80 | 0.50 | 0.0 | 0.0 | 8.32 | 16 | 211 |
| 132.0 | Samsung B2/B66A | 3 | 84 | 1.9 | 1.3 | 15.0 | 10.0 | 0.80 | 0.50 | 0.0 | 0.0 | 8.32 | 16 | 253 |
| 132.0 | Samsung CBRS | 3 | 75 | 4.5 | 2.4 | 18.8 | 4.8 | 0.80 | 0.58 | 0.0 | 0.0 | 8.32 | 44 | 225 |
| 132.0 | Samsung MT6407- | 3 | 82 | 4.7 | 2.9 | 16.1 | 5.5 | 0.80 | 0.61 | 0.0 | 0.0 | 8.32 | 49 | 245 |
| 132.0 | Andrew LNX- | 3 | 30 | 5.1 | 4.0 | 11.9 | 7.1 | 0.80 | 0.69 | 0.0 | 0.0 | 8.32 | 60 | 91 |
| 132.0 | JMA Wireless | 6 | 46 | 9.9 | 5.9 | 15.4 | 10.7 | 0.80 | 0.71 | 0.0 | 0.0 | 8.32 | 238 | 276 |
| 132.0 | Round Sector Frame | 3 | 300 | 14.4 | 0.0 | 0.0 | 0.0 | 0.75 | 0.67 | 0.0 | 0.0 | 8.32 | 154 | 900 |
| 132.0 | VZW Unused | 1 | 1116 | 114.1 | 0.0 | 0.0 | 0.0 | 0.80 | 0.90 | 0.0 | 0.0 | 8.32 | 581 | 1116 |
| Totals | | 129 | 12379 | 875.0 | | | | | | | | | 3761 | 12379 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Tower Loading

Linear Appurtenance Properties

| Elev From (ft) | Elev To (ft) | Description | Qty | Width (in) | Weight (lb/ft) | Pct In Block | Spread On Faces | Bundling Arrangement | Cluster Dia (in) | Out Of Zone | Spacing (in) | Orientation Factor | Ka Override |
|----------------|--------------|--------------------|-----|------------|----------------|--------------|-----------------|----------------------|------------------|-------------|--------------|--------------------|-------------|
| 0.00 | 189.0 | 7/8" Coax | 1 | 1.09 | 0.33 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 188.0 | 7/8" Coax | 1 | 1.09 | 0.33 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 187.0 | 7/8" Coax | 2 | 1.09 | 0.33 | 100 | 3 | Cluster | 3.22 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 182.0 | 7/8" Coax | 1 | 1.09 | 0.33 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 181.0 | 7/8" Coax | 1 | 1.09 | 0.33 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 180.0 | Waveguide | 1 | 2.00 | 6.00 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 180.0 | Waveguide | 1 | 2.00 | 6.00 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 170.0 | 7/8" Coax | 1 | 1.09 | 0.33 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 166.0 | 1 5/8" Coax | 12 | 1.98 | 0.82 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 166.0 | 1 5/8" Coax | 6 | 1.98 | 0.82 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 166.0 | 7/8" Coax | 3 | 1.09 | 0.33 | 100 | None | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 166.0 | Waveguide | 1 | 2.00 | 6.00 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 166.0 | 1 1/4" Hybriflex | 5 | 1.54 | 1.00 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 166.0 | 1 5/8" Hybriflex | 1 | 1.98 | 1.30 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 157.0 | 0.39" (10mm) Fiber | 3 | 0.39 | 0.06 | 100 | 1 | Individual | 0.00 | N | 1.00 | 1.00 | 0.01 |
| 30.00 | 157.0 | 0.78" (19.7mm) 8 | 6 | 0.78 | 0.59 | 100 | 1 | Individual | 0.00 | N | 1.00 | 1.00 | 0.01 |
| 30.00 | 157.0 | 1 5/8" Coax | 12 | 1.98 | 0.82 | 100 | 1 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 157.0 | 2" conduit | 1 | 2.38 | 3.65 | 100 | 1 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 157.0 | Waveguide | 1 | 2.00 | 6.00 | 100 | 1 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 30.00 | 156.0 | 1 5/8" Coax | 1 | 1.98 | 0.82 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.01 |
| 0.00 | 144.0 | 1.60" (40.6mm) | 1 | 1.60 | 2.34 | 100 | None | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 132.0 | 1 5/8" Coax | 6 | 1.98 | 0.82 | 100 | None | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |
| 0.00 | 132.0 | 1 5/8" Hybriflex | 2 | 1.98 | 1.30 | 100 | 3 | Individual | 0.00 | N | 1.00 | 1.00 | 0.00 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Equivalent Lateral Force Method

| | |
|--|---------|
| Spectral Response Acceleration for Short Period (S_g): | 0.19 |
| Spectral Response Acceleration at 1.0 Second Period (S_1): | 0.05 |
| Long-Period Transition Period (T_L - Seconds): | 6 |
| Importance Factor (I_p): | 1.00 |
| Site Coefficient F_a : | 1.60 |
| Site Coefficient F_v : | 2.40 |
| Response Modification Coefficient (R): | 3.00 |
| Design Spectral Response Acceleration at Short Period (S_{ds}): | 0.21 |
| Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.08 |
| Seismic Response Coefficient (C_s): | 0.04 |
| Upper Limit C_s : | 0.04 |
| Lower Limit C_s : | 0.03 |
| Period based on Rayleigh Method (sec): | 0.65 |
| Redundancy Factor (ρ): | 1.30 |
| Seismic Force Distribution Exponent (k): | 1.08 |
| Total Unfactored Dead Load: | 63.33 k |
| Seismic Base Shear (E): | 3.58 k |

LoadCase 1.2D + 1.0Ev + 1.0Eh

Seismic

| Section | Height Above Base (ft) | Weight (lb) | W_z (lb-ft) | C_{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---|------------------------------|----------------|------------------|----------|-----------------------------|---------------------------|
| 9 | 170.00 | 1,741 | 435,755 | 0.056 | 201 | 2,161 |
| 8 | 150.00 | 3,166 | 692,525 | 0.089 | 319 | 3,930 |
| 7 | 130.00 | 3,929 | 736,876 | 0.095 | 339 | 4,877 |
| 6 | 110.00 | 4,748 | 744,110 | 0.096 | 343 | 5,894 |
| 5 | 90.00 | 6,312 | 797,228 | 0.103 | 367 | 7,836 |
| 4 | 70.00 | 7,275 | 701,196 | 0.090 | 323 | 9,031 |
| 3 | 50.00 | 7,513 | 504,321 | 0.065 | 232 | 9,326 |
| 2 | 30.00 | 8,175 | 316,833 | 0.041 | 146 | 10,148 |
| 1 | 10.00 | 8,088 | 96,191 | 0.012 | 44 | 10,040 |
| Generic 15' Omni | 180.00 | 40 | 10,645 | 0.001 | 5 | 50 |
| Generic 15' Omni | 180.00 | 40 | 10,645 | 0.001 | 5 | 50 |
| Generic 15' Omni | 180.00 | 80 | 21,290 | 0.003 | 10 | 99 |
| Generic 8' Omni | 180.00 | 50 | 13,307 | 0.002 | 6 | 62 |
| Generic 5' Omni | 180.00 | 10 | 2,661 | 0.000 | 1 | 12 |
| dbSpectra ATS4TMA4-4 | 180.00 | 50 | 13,307 | 0.002 | 6 | 62 |
| Round Side Arm | 180.00 | 300 | 79,839 | 0.010 | 37 | 372 |
| Round Sector Frame | 180.00 | 300 | 79,839 | 0.010 | 37 | 372 |
| Generic 13' Omni | 170.00 | 40 | 10,011 | 0.001 | 5 | 50 |
| Generic 12" x 9" x 6" TMA | 166.00 | 60 | 14,636 | 0.002 | 7 | 74 |
| Ericsson Radio 4449 B71 B85A | 166.00 | 225 | 54,886 | 0.007 | 25 | 279 |
| Ericsson RRUS 4415 B25 | 166.00 | 138 | 33,664 | 0.004 | 15 | 171 |
| Ericsson Air6449 B41 | 166.00 | 312 | 76,109 | 0.010 | 35 | 387 |
| Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs) | 166.00 | 275 | 66,961 | 0.009 | 31 | 341 |
| Ericsson AIR32 B66Aa/B2a | 166.00 | 397 | 96,746 | 0.012 | 45 | 492 |
| Round Sector Frame | 166.00 | 900 | 219,546 | 0.028 | 101 | 1,117 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Equivalent Lateral Force Method

| | | | | | | |
|---------------------------------------|--------|--------|-----------|-------|-------|--------|
| RFS APXVAARR24_43-U-NA20 | 166.00 | 384 | 93,600 | 0.012 | 43 | 476 |
| Kaelus DBCT108F1V92-1 | 157.00 | 83 | 19,161 | 0.002 | 9 | 104 |
| Powerwave Allgon LGP21401 | 157.00 | 85 | 19,437 | 0.003 | 9 | 105 |
| Raycap DC6-48-60-18-8F (23.5" Height) | 157.00 | 60 | 13,785 | 0.002 | 6 | 74 |
| Ericsson RRUS 4426 B66 | 157.00 | 145 | 33,359 | 0.004 | 15 | 180 |
| Ericsson RRUS 4478 B14 | 157.00 | 178 | 40,941 | 0.005 | 19 | 221 |
| Ericsson RRUS 4478 B5 (56.1 lbs) | 157.00 | 168 | 38,667 | 0.005 | 18 | 209 |
| Ericsson RRUS-11 (50 lbs.) | 157.00 | 150 | 34,462 | 0.004 | 16 | 186 |
| Ericsson RRUS 32 B2 | 157.00 | 159 | 36,530 | 0.005 | 17 | 197 |
| Ericsson RRUS-32 (77 lbs) | 157.00 | 231 | 53,072 | 0.007 | 24 | 287 |
| Powerwave Allgon 7770.00 | 157.00 | 105 | 24,123 | 0.003 | 11 | 130 |
| CCI HPA-65R-BUU-H8 | 157.00 | 204 | 46,868 | 0.006 | 22 | 253 |
| CCI TPA-65R-LCUUUU-H8 | 157.00 | 245 | 56,242 | 0.007 | 26 | 304 |
| Kathrein Scala 80010966 | 157.00 | 344 | 78,987 | 0.010 | 36 | 427 |
| Generic Flat Light Sector Frame | 157.00 | 1,200 | 275,697 | 0.035 | 127 | 1,490 |
| Generic 15' Omni | 156.00 | 40 | 9,127 | 0.001 | 4 | 50 |
| Round Side Arm | 156.00 | 150 | 34,226 | 0.004 | 16 | 186 |
| Commscope RDIDC-9181-PF-48 | 144.00 | 22 | 4,585 | 0.001 | 2 | 27 |
| Fujitsu TA08025-B604 | 144.00 | 192 | 40,134 | 0.005 | 18 | 238 |
| Fujitsu TA08025-B605 | 144.00 | 225 | 47,105 | 0.006 | 22 | 279 |
| JMA Wireless MX08FRO665-21 | 144.00 | 193 | 40,511 | 0.005 | 19 | 240 |
| Generic Flat Light Sector Frame | 144.00 | 1,200 | 251,228 | 0.032 | 116 | 1,490 |
| Samsung Outdoor CBRS 20W RRH | 132.00 | 56 | 10,639 | 0.001 | 5 | 69 |
| Raycap RRFDC-1064-PF-48 | 132.00 | 28 | 5,338 | 0.001 | 2 | 35 |
| Samsung B5/B13 RRH-BR04C | 132.00 | 211 | 40,210 | 0.005 | 19 | 262 |
| Samsung B2/B66A RRH-BR049 | 132.00 | 253 | 48,274 | 0.006 | 22 | 314 |
| Samsung CBRS 64T64R MMU | 132.00 | 225 | 42,898 | 0.006 | 20 | 279 |
| Samsung MT6407-77A | 132.00 | 245 | 46,673 | 0.006 | 21 | 304 |
| Andrew LNX-6512DS-A1M | 132.00 | 91 | 17,274 | 0.002 | 8 | 112 |
| JMA Wireless MX06FRO660-02 | 132.00 | 276 | 52,621 | 0.007 | 24 | 343 |
| Round Sector Frame | 132.00 | 900 | 171,591 | 0.022 | 79 | 1,117 |
| VZW Unused Reserve (16430.43 sqin) | 132.00 | 1,116 | 212,716 | 0.027 | 98 | 1,385 |
| | | 63,326 | 7,769,209 | 1.000 | 3,577 | 78,612 |

LoadCase 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

| Section | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|----------------------|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| 9 | 170.00 | 1,741 | 435,755 | 0.056 | 201 | 1,495 |
| 8 | 150.00 | 3,166 | 692,525 | 0.089 | 319 | 2,718 |
| 7 | 130.00 | 3,929 | 736,876 | 0.095 | 339 | 3,373 |
| 6 | 110.00 | 4,748 | 744,110 | 0.096 | 343 | 4,077 |
| 5 | 90.00 | 6,312 | 797,228 | 0.103 | 367 | 5,420 |
| 4 | 70.00 | 7,275 | 701,196 | 0.090 | 323 | 6,246 |
| 3 | 50.00 | 7,513 | 504,321 | 0.065 | 232 | 6,451 |
| 2 | 30.00 | 8,175 | 316,833 | 0.041 | 146 | 7,019 |
| 1 | 10.00 | 8,088 | 96,191 | 0.012 | 44 | 6,944 |
| Generic 15' Omni | 180.00 | 40 | 10,645 | 0.001 | 5 | 34 |
| Generic 15' Omni | 180.00 | 40 | 10,645 | 0.001 | 5 | 34 |
| Generic 15' Omni | 180.00 | 80 | 21,290 | 0.003 | 10 | 69 |
| Generic 8' Omni | 180.00 | 50 | 13,307 | 0.002 | 6 | 43 |
| Generic 5' Omni | 180.00 | 10 | 2,661 | 0.000 | 1 | 9 |
| dbSpectra ATS4TMA4-4 | 180.00 | 50 | 13,307 | 0.002 | 6 | 43 |
| Round Side Arm | 180.00 | 300 | 79,839 | 0.010 | 37 | 258 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Equivalent Lateral Force Method

| | | | | | | |
|---|--------|--------|-----------|-------|-------|--------|
| Round Sector Frame | 180.00 | 300 | 79,839 | 0.010 | 37 | 258 |
| Generic 13' Omni | 170.00 | 40 | 10,011 | 0.001 | 5 | 34 |
| Generic 12" x 9" x 6" TMA | 166.00 | 60 | 14,636 | 0.002 | 7 | 52 |
| Ericsson Radio 4449 B71 B85A | 166.00 | 225 | 54,886 | 0.007 | 25 | 193 |
| Ericsson RRUS 4415 B25 | 166.00 | 138 | 33,664 | 0.004 | 15 | 118 |
| Ericsson Air6449 B41 | 166.00 | 312 | 76,109 | 0.010 | 35 | 268 |
| Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs) | 166.00 | 275 | 66,961 | 0.009 | 31 | 236 |
| Ericsson AIR32 B66Aa/B2a | 166.00 | 397 | 96,746 | 0.012 | 45 | 341 |
| Round Sector Frame | 166.00 | 900 | 219,546 | 0.028 | 101 | 773 |
| RFS APXVAARR24_43-U-NA20 | 166.00 | 384 | 93,600 | 0.012 | 43 | 329 |
| Kaelus DBCT108F1V92-1 | 157.00 | 83 | 19,161 | 0.002 | 9 | 72 |
| Powerwave Allgon LGP21401 | 157.00 | 85 | 19,437 | 0.003 | 9 | 73 |
| Raycap DC6-48-60-18-8F (23.5" Height) | 157.00 | 60 | 13,785 | 0.002 | 6 | 52 |
| Ericsson RRUS 4426 B66 | 157.00 | 145 | 33,359 | 0.004 | 15 | 125 |
| Ericsson RRUS 4478 B14 | 157.00 | 178 | 40,941 | 0.005 | 19 | 153 |
| Ericsson RRUS 4478 B5 (56.1 lbs) | 157.00 | 168 | 38,667 | 0.005 | 18 | 145 |
| Ericsson RRUS-11 (50 lbs.) | 157.00 | 150 | 34,462 | 0.004 | 16 | 129 |
| Ericsson RRUS 32 B2 | 157.00 | 159 | 36,530 | 0.005 | 17 | 137 |
| Ericsson RRUS-32 (77 lbs) | 157.00 | 231 | 53,072 | 0.007 | 24 | 198 |
| Powerwave Allgon 7770.00 | 157.00 | 105 | 24,123 | 0.003 | 11 | 90 |
| CCI HPA-65R-BUU-H8 | 157.00 | 204 | 46,868 | 0.006 | 22 | 175 |
| CCI TPA-65R-LCUUUU-H8 | 157.00 | 245 | 56,242 | 0.007 | 26 | 210 |
| Kathrein Scala 80010966 | 157.00 | 344 | 78,987 | 0.010 | 36 | 295 |
| Generic Flat Light Sector Frame | 157.00 | 1,200 | 275,697 | 0.035 | 127 | 1,030 |
| Generic 15' Omni | 156.00 | 40 | 9,127 | 0.001 | 4 | 34 |
| Round Side Arm | 156.00 | 150 | 34,226 | 0.004 | 16 | 129 |
| Commscope RDIDC-9181-PF-48 | 144.00 | 22 | 4,585 | 0.001 | 2 | 19 |
| Fujitsu TA08025-B604 | 144.00 | 192 | 40,134 | 0.005 | 18 | 165 |
| Fujitsu TA08025-B605 | 144.00 | 225 | 47,105 | 0.006 | 22 | 193 |
| JMA Wireless MX08FRO665-21 | 144.00 | 193 | 40,511 | 0.005 | 19 | 166 |
| Generic Flat Light Sector Frame | 144.00 | 1,200 | 251,228 | 0.032 | 116 | 1,030 |
| Samsung Outdoor CBRS 20W RRH | 132.00 | 56 | 10,639 | 0.001 | 5 | 48 |
| Raycap RRFDC-1064-PF-48 | 132.00 | 28 | 5,338 | 0.001 | 2 | 24 |
| Samsung B5/B13 RRH-BR04C | 132.00 | 211 | 40,210 | 0.005 | 19 | 181 |
| Samsung B2/B66A RRH-BR049 | 132.00 | 253 | 48,274 | 0.006 | 22 | 217 |
| Samsung CBRS 64T64R MMU | 132.00 | 225 | 42,898 | 0.006 | 20 | 193 |
| Samsung MT6407-77A | 132.00 | 245 | 46,673 | 0.006 | 21 | 210 |
| Andrew LNX-6512DS-A1M | 132.00 | 91 | 17,274 | 0.002 | 8 | 78 |
| JMA Wireless MX06FRO660-02 | 132.00 | 276 | 52,621 | 0.007 | 24 | 237 |
| Round Sector Frame | 132.00 | 900 | 171,591 | 0.022 | 79 | 773 |
| VZW Unused Reserve (16430.43 sqin) | 132.00 | 1,116 | 212,716 | 0.027 | 98 | 958 |
| | | 63,326 | 7,769,209 | 1.000 | 3,577 | 54,372 |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Force/Stress Summary

| Section: 1 | | 1 | | Bot Elev (ft): 0.00 | | | | Height (ft): 20.000 | | | | | | | |
|------------------------|----------------------|----------|--------------------|---------------------|-----------|-----|-----|---------------------|------------|--------------|-----------|--------------------|------------------|-------|-------------|
| Max Compression Member | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic (kip) | Pn Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| LEG | PX - 12" DIA PIPE | -309.57 | 1.2D + 1.0W Normal | 10.02 | 100 | 100 | 100 | 27.8 | 50.0 | 816.60 | 0 | 0 | 0.00 | 0.00 | 37 Member X |
| HORIZ | PST - 3" DIA PIPE | -8.64 | 0.9D + 1.0W 90 deg | 12.17 | 100 | 100 | 100 | 125.9 | 50.0 | 31.77 | 2 | 0 | 0.00 | 40.44 | 27 Member X |
| DIAG | PST - 3-1/2" DIA PIP | -13.27 | 1.2D + 1.0W 90 deg | 15.75 | 100 | 100 | 100 | 141.1 | 50.0 | 30.41 | 3 | 0 | 0.00 | 63.46 | 43 Member X |

| Max Tension Member | | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit (kip) | Pn Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls |
|--------------------|----------------------|----------|--------------------|----------|----------|------------|--------------|-----------|--------------------|------------------|-------------------------|-------|-----------|
| LEG | PX - 12" DIA PIPE | 261.08 | 1.2D + 1.0W 60 deg | 50 | 65 | 864.00 | 0 | 0 | 0.00 | 0.00 | | 30 | Member |
| HORIZ | PST - 3" DIA PIPE | 10.07 | 1.2D + 1.0W 90 deg | 50 | 65 | 100.35 | 2 | 0 | 0.00 | 32.43 | 0.00 | 31 | Bolt Bear |
| DIAG | PST - 3-1/2" DIA PIP | 12.24 | 1.2D + 1.0W 90 deg | 50 | 65 | 120.60 | 3 | 0 | 0.00 | 55.09 | 0.00 | 22 | Bolt Bear |

| Max Splice Forces | | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type |
|-------------------|--|----------|--------------------|--------------|-------|-----------|------------|
| Top Tension | | 252.78 | 0.9D + 1.0W 60 deg | 0.00 | 0 | 0 | |
| Top Compression | | 293.10 | 1.2D + 1.0W Normal | 0.00 | 0 | | |
| Bot Tension | | 279.59 | 0.9D + 1.0W 60 deg | 1362.92 | 11 | 24 | 1" A354-BC |
| Bot Compression | | 323.46 | 1.2D + 1.0W Normal | 1584.63 | 34 | | |

| Section: 2 | | 1 | | Bot Elev (ft): 20.00 | | | | Height (ft): 20.000 | | | | | | | |
|------------------------|----------------------|----------|--------------------|----------------------|-----------|-----|-----|---------------------|------------|--------------|-----------|--------------------|------------------|-------|-------------|
| Max Compression Member | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic (kip) | Pn Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| LEG | PX - 12" DIA PIPE | -280.13 | 1.2D + 1.0W Normal | 10.03 | 100 | 100 | 100 | 27.8 | 50.0 | 816.53 | 0 | 0 | 0.00 | 0.00 | 34 Member X |
| HORIZ | PST - 3" DIA PIPE | -7.96 | 0.9D + 1.0W 90 deg | 10.88 | 100 | 100 | 100 | 112.6 | 50.0 | 39.73 | 2 | 0 | 0.00 | 40.44 | 20 Member X |
| DIAG | PST - 3-1/2" DIA PIP | -11.91 | 1.2D + 1.0W 90 deg | 15.29 | 100 | 100 | 100 | 137.0 | 50.0 | 32.26 | 3 | 0 | 0.00 | 63.46 | 36 Member X |

| Max Tension Member | | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit (kip) | Pn Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls |
|--------------------|----------------------|----------|--------------------|----------|----------|------------|--------------|-----------|--------------------|------------------|-------------------------|-------|-----------|
| LEG | PX - 12" DIA PIPE | 242.24 | 0.9D + 1.0W 60 deg | 50 | 65 | 864.00 | 0 | 0 | 0.00 | 0.00 | | 28 | Member |
| HORIZ | PST - 3" DIA PIPE | 8.49 | 1.2D + 1.0W 90 deg | 50 | 65 | 100.35 | 2 | 0 | 0.00 | 32.43 | 0.00 | 26 | Bolt Bear |
| DIAG | PST - 3-1/2" DIA PIP | 10.66 | 1.2D + 1.0W 90 deg | 50 | 65 | 120.60 | 3 | 0 | 0.00 | 55.09 | 0.00 | 19 | Bolt Bear |

| Max Splice Forces | | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type |
|-------------------|--|----------|--------------------|--------------|-------|-----------|-----------|
| Top Tension | | 229.45 | 0.9D + 1.0W 60 deg | 0.00 | 0 | 0 | |
| Top Compression | | 264.45 | 1.2D + 1.0W Normal | 0.00 | 0 | | |
| Bot Tension | | 252.78 | 0.9D + 1.0W 60 deg | 872.27 | 29 | 16 | 1 A325 |
| Bot Compression | | 0.00 | | 0.00 | 0 | | |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Force/Stress Summary

| Section: 3 | | 1 | | Bot Elev (ft): 40.00 | | | | Height (ft): 20.000 | | | | | | | |
|-------------------------------|----------------------|----------|--------------------|----------------------|-----------|---------------|-----------|---------------------|--------------------|------------------|-------------------------|--------------------|------------------|-----------|-------------|
| | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| Max Compression Member | | | | | | | | | | | | | | | |
| LEG | PX - 10" DIA PIPE | -248.37 | 1.2D + 1.0W Normal | 10.03 | 100 | 100 | 100 | 33.1 | 50.0 | 668.58 | 0 | 0 | 0.00 | 0.00 | 37 Member X |
| HORIZ | PST - 2-1/2" DIA PIP | -8.41 | 0.9D + 1.0W 90 deg | 9.570 | 100 | 100 | 100 | 121.3 | 50.0 | 26.18 | 2 | 0 | 0.00 | 38.00 | 32 Member X |
| DIAG | PX - 3" DIA PIPE | -13.13 | 1.2D + 1.0W 90 deg | 14.28 | 100 | 100 | 100 | 150.4 | 50.0 | 30.17 | 3 | 0 | 0.00 | 84.24 | 43 Member X |
| Max Tension Member | | | | | | | | | | | | | | | |
| | | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls | | |
| LEG | PX - 10" DIA PIPE | 211.78 | 1.2D + 1.0W 60 deg | 50 | 65 | 724.50 | 0 | 0 | 0.00 | 0.00 | | | 29 | Member | |
| HORIZ | PST - 2-1/2" DIA PIP | 8.78 | 1.2D + 1.0W 90 deg | 50 | 65 | 76.68 | 2 | 0 | 0.00 | 30.48 | 0.00 | | 28 | Bolt Bear | |
| DIAG | PX - 3" DIA PIPE | 12.05 | 1.2D + 1.0W 90 deg | 50 | 65 | 135.90 | 3 | 0 | 0.00 | 73.13 | 0.00 | | 16 | Bolt Bear | |
| Max Splice Forces | | | | | | | | | | | | | | | |
| | | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type | | | | | | | | |
| | Top Tension | 200.51 | 0.9D + 1.0W 60 deg | 0.00 | 0 | 0 | | | | | | | | | |
| | Top Compression | 230.12 | 1.2D + 1.0W Normal | 0.00 | 0 | | | | | | | | | | |
| | Bot Tension | 229.45 | 0.9D + 1.0W 60 deg | 872.27 | 26 | 16 | 1 A325 | | | | | | | | |
| | Bot Compression | 0.00 | | 0.00 | 0 | | | | | | | | | | |

| Section: 4 | | 1 | | Bot Elev (ft): 60.00 | | | | Height (ft): 20.000 | | | | | | | |
|-------------------------------|----------------------|----------|--------------------|----------------------|-----------|---------------|-----------|---------------------|--------------------|------------------|-------------------------|--------------------|------------------|-----------|-------------|
| | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| Max Compression Member | | | | | | | | | | | | | | | |
| LEG | PX - 10" DIA PIPE | -213.68 | 1.2D + 1.0W Normal | 10.03 | 100 | 100 | 100 | 33.2 | 50.0 | 668.56 | 0 | 0 | 0.00 | 0.00 | 31 Member X |
| HORIZ | PST - 2-1/2" DIA PIP | -7.58 | 1.2D + 1.0W 90 deg | 8.298 | 100 | 100 | 100 | 105.1 | 50.0 | 34.17 | 2 | 0 | 0.00 | 38.00 | 22 Member X |
| DIAG | PX - 3" DIA PIPE | -12.83 | 1.2D + 1.0W 90 deg | 13.42 | 100 | 100 | 100 | 141.3 | 50.0 | 34.18 | 3 | 0 | 0.00 | 84.24 | 37 Member X |
| Max Tension Member | | | | | | | | | | | | | | | |
| | | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls | | |
| LEG | PX - 10" DIA PIPE | 183.01 | 1.2D + 1.0W 60 deg | 50 | 65 | 724.50 | 0 | 0 | 0.00 | 0.00 | | | 25 | Member | |
| HORIZ | PST - 2-1/2" DIA PIP | 7.94 | 1.2D + 1.0W 90 deg | 50 | 65 | 76.68 | 2 | 0 | 0.00 | 30.48 | 0.00 | | 26 | Bolt Bear | |
| DIAG | PX - 3" DIA PIPE | 11.85 | 1.2D + 1.0W 90 deg | 50 | 65 | 135.90 | 3 | 0 | 0.00 | 73.13 | 0.00 | | 16 | Bolt Bear | |
| Max Splice Forces | | | | | | | | | | | | | | | |
| | | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type | | | | | | | | |
| | Top Tension | 170.51 | 0.9D + 1.0W 60 deg | 0.00 | 0 | 0 | | | | | | | | | |
| | Top Compression | 195.06 | 1.2D + 1.0W Normal | 0.00 | 0 | | | | | | | | | | |
| | Bot Tension | 200.51 | 0.9D + 1.0W 60 deg | 654.20 | 31 | 12 | 1 A325 | | | | | | | | |
| | Bot Compression | 0.00 | | 0.00 | 0 | | | | | | | | | | |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Force/Stress Summary

Section: 5 1 Bot Elev (ft): 80.00 Height (ft): 20.000

| Max Compression Member | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic Pn (kip) | Num Bolts | Num Holes | Shear | | Use % | Controls |
|--------------------------|----------|--------------------|----------|-----------|-----|-----|-----------|---------------|-----------|-----------|--------------|------------------|-------|-------------|
| | | | | X | Y | Z | | | | | phiRnv (kip) | Bear phiRn (kip) | | |
| LEG PSP - 8.75" OD x 0.5 | -176.51 | 1.2D + 1.0W Normal | 10.03 | 100 | 100 | 100 | 41.2 | 50.0 | 515.18 | 0 | 0 | 0.00 | 0.00 | 34 Member X |
| HORIZ PX - 2" DIA PIPE | -7.35 | 1.2D + 1.0W 90 deg | 7.035 | 100 | 100 | 100 | 110.2 | 50.0 | 27.40 | 2 | 0 | 0.00 | 40.81 | 26 Member X |
| DIAG PX - 3" DIA PIPE | -13.45 | 1.2D + 1.0W 90 deg | 12.59 | 100 | 100 | 100 | 132.6 | 50.0 | 38.81 | 3 | 0 | 0.00 | 84.24 | 34 Member X |

| Max Tension Member | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls |
|------------------------|----------|--------------------|----------|----------|---------------|-----------|-----------|--------------------|------------------|-------------------------|-------|-----------|
| | | | | | | | | | | | | |
| HORIZ PX - 2" DIA PIPE | 7.56 | 1.2D + 1.0W 90 deg | 50 | 65 | 66.60 | 2 | 0 | 0.00 | 32.73 | 0.00 | 23 | Bolt Bear |
| DIAG PX - 3" DIA PIPE | 12.65 | 1.2D + 1.0W 90 deg | 50 | 65 | 135.90 | 3 | 0 | 0.00 | 73.13 | 0.00 | 17 | Bolt Bear |

| Max Splice Forces | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type |
|-------------------|----------|--------------------|--------------|-------|-----------|-----------|
| | | | | | | |
| Top Compression | 155.54 | 1.2D + 1.0W Normal | 0.00 | 0 | | |
| Bot Tension | 170.51 | 0.9D + 1.0W 60 deg | 654.20 | 26 | 12 | 1 A325 |
| Bot Compression | 0.00 | | 0.00 | 0 | | |

Section: 6 1 Bot Elev (ft): 100.0 Height (ft): 20.000

| Max Compression Member | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic Pn (kip) | Num Bolts | Num Holes | Shear | | Use % | Controls |
|---------------------------|----------|--------------------|----------|-----------|-----|-----|-----------|---------------|-----------|-----------|--------------|------------------|-------|-------------|
| | | | | X | Y | Z | | | | | phiRnv (kip) | Bear phiRn (kip) | | |
| LEG PX - 6" DIA PIPE | -141.19 | 1.2D + 1.0W Normal | 6.68 | 100 | 100 | 100 | 36.5 | 50.0 | 342.89 | 0 | 0 | 0.00 | 0.00 | 41 Member X |
| HORIZ PST - 2" DIA PIPE | -7.41 | 1.2D + 1.0W 90 deg | 6.072 | 100 | 100 | 100 | 92.6 | 50.0 | 25.73 | 2 | 0 | 0.00 | 24.02 | 28 Member X |
| DIAG PST - 2-1/2" DIA PIP | -11.48 | 1.2D + 1.0W 90 deg | 9.258 | 100 | 100 | 100 | 117.3 | 50.0 | 27.97 | 3 | 0 | 0.00 | 47.50 | 41 Member X |

| Max Tension Member | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls |
|---------------------------|----------|--------------------|----------|----------|---------------|-----------|-----------|--------------------|------------------|-------------------------|-------|-----------|
| | | | | | | | | | | | | |
| HORIZ PST - 2" DIA PIPE | 7.56 | 1.2D + 1.0W 90 deg | 50 | 65 | 48.15 | 2 | 0 | 0.00 | 19.22 | 0.00 | 39 | Bolt Bear |
| DIAG PST - 2-1/2" DIA PIP | 11.35 | 1.2D + 1.0W 90 deg | 50 | 65 | 76.68 | 3 | 0 | 0.00 | 41.17 | 0.00 | 27 | Bolt Bear |

| Max Splice Forces | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type |
|-------------------|----------|--------------------|--------------|-------|-----------|-----------|
| | | | | | | |
| Top Compression | 109.30 | 1.2D + 1.0W Normal | 0.00 | 0 | | |
| Bot Tension | 135.51 | 0.9D + 1.0W 60 deg | 436.14 | 31 | 8 | 1 A325 |
| Bot Compression | 0.00 | | 0.00 | 0 | | |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Force/Stress Summary

| Section: 7 | | 1 | | Bot Elev (ft): 120.0 | | | | Height (ft): 20.000 | | | | | | | |
|-------------------------------|----------------------|----------|--------------------|----------------------|--------------|--------|-----------|---------------------|---------------|-----------|-----------|--------------------|------------------|-------|-------------|
| | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| Max Compression Member | | | | | | | | | | | | | | | |
| LEG | PSP - ROHN 5 EH | -93.39 | 1.2D + 1.0W Normal | 6.68 | 100 | 100 | 100 | 43.6 | 50.0 | 239.34 | 0 | 0 | 0.00 | 0.00 | 39 Member X |
| HORIZ | PST - 1-1/2" DIA PIP | -7.09 | 1.2D + 1.0W 90 deg | 5.030 | 100 | 100 | 100 | 96.9 | 50.0 | 18.10 | 2 | 0 | 0.00 | 22.62 | 39 Member X |
| DIAG | PST - 2-1/2" DIA PIP | -12.04 | 1.2D + 1.0W 90 deg | 8.566 | 100 | 100 | 100 | 108.5 | 50.0 | 32.40 | 3 | 0 | 0.00 | 47.50 | 37 Member X |
| Max Tension Member | | | | | | | | | | | | | | | |
| LEG | PSP - ROHN 5 EH | 78.18 | 0.9D + 1.0W 60 deg | 50 | 65 | 274.95 | 0 | 0 | 0.00 | 0.00 | | | | 28 | Member |
| HORIZ | PST - 1-1/2" DIA PIP | 7.19 | 1.2D + 1.0W 90 deg | 50 | 65 | 35.96 | 2 | 0 | 0.00 | 18.10 | | | 0.00 | 39 | Bolt Bear |
| DIAG | PST - 2-1/2" DIA PIP | 11.96 | 0.9D + 1.0W 90 deg | 50 | 65 | 76.68 | 3 | 0 | 0.00 | 41.17 | | | 0.00 | 29 | Bolt Bear |
| Max Splice Forces | | | | | | | | | | | | | | | |
| | | Pu (kip) | Load Case | | phiRnt (kip) | Use % | Num Bolts | Bolt Type | | | | | | | |
| | Top Tension | 49.56 | 0.9D + 1.0W 60 deg | | 0.00 | 0 | 0 | | | | | | | | |
| | Top Compression | 60.70 | 1.2D + 1.0W Normal | | 0.00 | 0 | | | | | | | | | |
| | Bot Tension | 93.11 | 0.9D + 1.0W 60 deg | | 327.10 | 28 | 6 | 1 A325 | | | | | | | |
| | Bot Compression | 0.00 | | | 0.00 | 0 | | | | | | | | | |

| Section: 8 | | 1 | | Bot Elev (ft): 140.0 | | | | Height (ft): 20.000 | | | | | | | |
|-------------------------------|----------------------|----------|--------------------|----------------------|--------------|--------|-----------|---------------------|---------------|-----------|-----------|--------------------|------------------|-------|-------------|
| | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic Pn (kip) | Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| Max Compression Member | | | | | | | | | | | | | | | |
| LEG | PST - 4" DIA PIPE | -43.67 | 1.2D + 1.0W Normal | 6.67 | 100 | 100 | 100 | 53.0 | 50.0 | 116.18 | 0 | 0 | 0.00 | 0.00 | 37 Member X |
| HORIZ | PST - 2" DIA PIPE | -5.96 | 1.2D + 1.0W 90 deg | 4.325 | 100 | 100 | 100 | 66.0 | 50.0 | 35.03 | 2 | 0 | 0.00 | 24.02 | 17 Member X |
| DIAG | PST - 2-1/2" DIA PIP | -11.67 | 1.2D + 1.0W 90 deg | 7.955 | 100 | 100 | 100 | 100.8 | 50.0 | 36.48 | 3 | 0 | 0.00 | 47.50 | 31 Member X |
| Max Tension Member | | | | | | | | | | | | | | | |
| LEG | PST - 4" DIA PIPE | 33.49 | 0.9D + 1.0W 60 deg | 50 | 65 | 142.65 | 0 | 0 | 0.00 | 0.00 | | | | 23 | Member |
| HORIZ | PST - 2" DIA PIPE | 6.07 | 1.2D + 1.0W 90 deg | 50 | 65 | 48.15 | 2 | 0 | 0.00 | 19.22 | | | 0.00 | 31 | Bolt Bear |
| DIAG | PST - 2-1/2" DIA PIP | 11.42 | 1.2D + 1.0W 90 deg | 50 | 65 | 76.68 | 3 | 0 | 0.00 | 41.17 | | | 0.00 | 27 | Bolt Bear |
| Max Splice Forces | | | | | | | | | | | | | | | |
| | | Pu (kip) | Load Case | | phiRnt (kip) | Use % | Num Bolts | Bolt Type | | | | | | | |
| | Top Tension | 9.01 | 0.9D + 1.0W 60 deg | | 0.00 | 0 | 0 | | | | | | | | |
| | Top Compression | 15.69 | 1.2D + 1.0W Normal | | 0.00 | 0 | | | | | | | | | |
| | Bot Tension | 49.56 | 0.9D + 1.0W 60 deg | | 218.07 | 23 | 4 | 1 A325 | | | | | | | |
| | Bot Compression | 0.00 | | | 0.00 | 0 | | | | | | | | | |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Force/Stress Summary

| Section: 9 | | 1 | | Bot Elev (ft): 160.0 | | | | Height (ft): 20.000 | | | | | | | |
|------------------------|----------------------|----------|----------------------|----------------------|-----------|------------|--------------|---------------------|--------------------|------------------|-------------------------|--------------------|------------------|-------|-------------|
| Max Compression Member | | Pu (kip) | Load Case | Len (ft) | Bracing % | | | F'y (ksi) | Phic (kip) | Pn Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Use % | Controls |
| LEG | PST - 3" DIA PIPE | -7.25 | 1.2D + 1.0W Normal | 6.67 | 100 | 100 | 100 | 69.0 | 50.0 | 70.87 | 0 | 0 | 0.00 | 0.00 | 10 Member X |
| HORIZ | PST - 1-1/2" DIA PIP | -2.41 | 0.9D + 1.0W Normal | 4.280 | 100 | 100 | 100 | 82.4 | 50.0 | 21.87 | 2 | 0 | 0.00 | 22.62 | 11 Member X |
| DIAG | PST - 2" DIA PIPE | -4.42 | 1.2D + 1.0W 90 deg | 7.931 | 100 | 100 | 100 | 120.9 | 50.0 | 16.53 | 3 | 0 | 0.00 | 36.04 | 26 Member X |
| Max Tension Member | | Pu (kip) | Load Case | Fy (ksi) | Fu (ksi) | Phit (kip) | Pn Num Bolts | Num Holes | Shear phiRnv (kip) | Bear phiRn (kip) | Blk Shear phit Pn (kip) | Use % | Controls | | |
| LEG | PST - 3" DIA PIPE | 3.32 | 1.2D + 1.0W 60 deg | 50 | 65 | 100.35 | 0 | 0 | 0.00 | 0.00 | | | 3 Member | | |
| HORIZ | PST - 1-1/2" DIA PIP | 2.33 | 1.2D + 1.0W 60 deg | 50 | 65 | 35.96 | 2 | 0 | 0.00 | 18.10 | 0.00 | | 12 Bolt Bear | | |
| DIAG | PST - 2" DIA PIPE | 4.29 | 1.2D + 1.0W 90 deg | 50 | 65 | 48.15 | 3 | 0 | 0.00 | 31.23 | 0.00 | | 13 Bolt Bear | | |
| Max Splice Forces | | Pu (kip) | Load Case | phiRnt (kip) | Use % | Num Bolts | Bolt Type | | | | | | | | |
| Top Tension | | 0.00 | | 0.00 | 0 | 0 | | | | | | | | | |
| Top Compression | | 0.90 | 1.2D + 1.0Di + 1.0Wi | 0.00 | 0 | | | | | | | | | | |
| Bot Tension | | 9.01 | 0.9D + 1.0W 60 deg | 166.22 | 5 | 4 | 0.875" A325 | | | | | | | | |
| Bot Compression | | 0.00 | | 0.00 | 0 | | | | | | | | | | |

Site Number: 411183

Code: ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

Detailed Reactions

| Load Case | Radius (ft) | Elevation (ft) | Azimuth (deg) | Node | FX (kip) | FY (kip) | FZ (kip) | (-) = Uplift (+) = Down |
|--------------------------------|-------------|----------------|---------------|------|----------|----------|----------|-------------------------|
| 1.2D + 1.0W Normal | 14.75 | 00.00 | 0 | 1 | 0.00 | 322.35 | -36.84 | |
| | 14.75 | 00.00 | 120 | 1a | 10.56 | -123.18 | -11.49 | |
| | 14.75 | 00.00 | 240 | 1b | -10.56 | -123.18 | -11.49 | |
| 1.2D + 1.0W 60 deg | 14.75 | 00.00 | 0 | 1 | -4.56 | 173.84 | -19.67 | |
| | 14.75 | 00.00 | 120 | 1a | -19.30 | 173.54 | 5.88 | |
| | 14.75 | 00.00 | 240 | 1b | -27.95 | -271.39 | -16.13 | |
| 1.2D + 1.0W 90 deg | 14.75 | 00.00 | 0 | 1 | -5.34 | 25.33 | -2.42 | |
| | 14.75 | 00.00 | 120 | 1a | -29.22 | 282.21 | 13.86 | |
| | 14.75 | 00.00 | 240 | 1b | -25.27 | -231.55 | -11.44 | |
| 0.9D + 1.0W Normal | 14.75 | 00.00 | 0 | 1 | 0.00 | 315.81 | -36.23 | |
| | 14.75 | 00.00 | 120 | 1a | 11.08 | -129.41 | -11.80 | |
| | 14.75 | 00.00 | 240 | 1b | -11.08 | -129.41 | -11.80 | |
| 0.9D + 1.0W 60 deg | 14.75 | 00.00 | 0 | 1 | -4.56 | 167.41 | -19.06 | |
| | 14.75 | 00.00 | 120 | 1a | -18.78 | 167.10 | 5.58 | |
| | 14.75 | 00.00 | 240 | 1b | -28.47 | -277.51 | -16.43 | |
| 0.9D + 1.0W 90 deg | 14.75 | 00.00 | 0 | 1 | -5.34 | 19.00 | -1.82 | |
| | 14.75 | 00.00 | 120 | 1a | -28.70 | 275.69 | 13.55 | |
| | 14.75 | 00.00 | 240 | 1b | -25.79 | -237.70 | -11.74 | |
| 1.2D + 1.0Di + 1.0Wi Normal | 14.75 | 00.00 | 0 | 1 | 0.00 | 141.25 | -14.26 | |
| | 14.75 | 00.00 | 120 | 1a | 1.22 | 2.82 | -2.47 | |
| | 14.75 | 00.00 | 240 | 1b | -1.22 | 2.82 | -2.47 | |
| 1.2D + 1.0Di + 1.0Wi 60 deg | 14.75 | 00.00 | 0 | 1 | -1.52 | 95.10 | -8.75 | |
| | 14.75 | 00.00 | 120 | 1a | -8.33 | 95.04 | 3.06 | |
| | 14.75 | 00.00 | 240 | 1b | -6.78 | -43.27 | -3.91 | |
| 1.2D + 1.0Di + 1.0Wi 90 deg | 14.75 | 00.00 | 0 | 1 | -1.76 | 48.96 | -3.23 | |
| | 14.75 | 00.00 | 120 | 1a | -11.50 | 128.81 | 5.63 | |
| | 14.75 | 00.00 | 240 | 1b | -5.94 | -30.89 | -2.40 | |
| 1.2D + 1.0Ev + 1.0Eh Normal M1 | 14.75 | 00.00 | 0 | 1 | 0.00 | 45.26 | -4.59 | |
| | 14.75 | 00.00 | 120 | 1a | -1.37 | 15.67 | 0.53 | |
| | 14.75 | 00.00 | 240 | 1b | 1.37 | 15.67 | 0.53 | |
| 1.2D + 1.0Ev + 1.0Eh 60 deg M1 | 14.75 | 00.00 | 0 | 1 | -0.23 | 35.40 | -3.55 | |
| | 14.75 | 00.00 | 120 | 1a | -3.18 | 35.40 | 1.57 | |
| | 14.75 | 00.00 | 240 | 1b | 0.35 | 5.81 | 0.20 | |
| 1.2D + 1.0Ev + 1.0Eh 90 deg M1 | 14.75 | 00.00 | 0 | 1 | -0.26 | 25.53 | -2.50 | |
| | 14.75 | 00.00 | 120 | 1a | -3.80 | 42.62 | 2.04 | |
| | 14.75 | 00.00 | 240 | 1b | 0.53 | 8.45 | 0.46 | |
| 0.9D - 1.0Ev + 1.0Eh Normal M1 | 14.75 | 00.00 | 0 | 1 | 0.00 | 37.37 | -3.82 | |
| | 14.75 | 00.00 | 120 | 1a | -0.71 | 7.81 | 0.14 | |
| | 14.75 | 00.00 | 240 | 1b | 0.71 | 7.81 | 0.14 | |
| 0.9D - 1.0Ev + 1.0Eh 60 deg M1 | 14.75 | 00.00 | 0 | 1 | -0.23 | 27.52 | -2.77 | |
| | 14.75 | 00.00 | 120 | 1a | -2.52 | 27.52 | 1.19 | |
| | 14.75 | 00.00 | 240 | 1b | -0.32 | -2.05 | -0.18 | |
| 0.9D - 1.0Ev + 1.0Eh 90 deg M1 | 14.75 | 00.00 | 0 | 1 | -0.26 | 17.66 | -1.73 | |
| | 14.75 | 00.00 | 120 | 1a | -3.13 | 34.73 | 1.66 | |

Site Number: 411183

Code:

ANSI/TIA-222-H

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

7/26/2021 3:06:29 PM

Customer: VERIZON WIRELESS

| | | | | | | | |
|----------------------------|-------|-------|-----|----|-------|--------|--------|
| | 14.75 | 00.00 | 240 | 1b | -0.14 | 0.59 | 0.07 |
| 1.0D + 1.0W Service Normal | 14.75 | 00.00 | 0 | 1 | 0.00 | 89.38 | -10.01 |
| | 14.75 | 00.00 | 120 | 1a | 1.18 | -13.03 | -1.94 |
| | 14.75 | 00.00 | 240 | 1b | -1.18 | -13.03 | -1.94 |
| 1.0D + 1.0W Service 60 deg | 14.75 | 00.00 | 0 | 1 | -1.08 | 55.24 | -6.01 |
| | 14.75 | 00.00 | 120 | 1a | -5.75 | 55.17 | 2.07 |
| | 14.75 | 00.00 | 240 | 1b | -5.20 | -47.09 | -3.00 |
| 1.0D + 1.0W Service 90 deg | 14.75 | 00.00 | 0 | 1 | -1.25 | 21.11 | -2.01 |
| | 14.75 | 00.00 | 120 | 1a | -8.05 | 80.15 | 3.93 |
| | 14.75 | 00.00 | 240 | 1b | -4.58 | -37.93 | -1.92 |

| | | | | | | |
|-------------|--------------|------------------|-------------------|--------------|-------------------|--------------------|
| Max Uplift: | 277.51 (kip) | Moment Ice: | 2,042.00 (kip-ft) | Moment: | 6,572.10 (kip-ft) | 1.2D + 1.0W Normal |
| Max Down: | 322.35 (kip) | Total Down Ice: | 146.88 (kip) | Total Down: | 75.99 (kip) | |
| Max Shear: | 36.84 (kip) | Total Shear Ice: | 19.20 (kip) | Total Shear: | 59.82 (kip) | |

Site Number: 411183

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

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Customer: VERIZON WIRELESS

Deflections and Rotations

| Load Case | Elevation (ft) | Deflection (ft) | Twist (deg) | Sway (deg) | Resultant (deg) |
|---|----------------|-----------------|-------------|------------|-----------------|
| 126 mph Normal with No Ice | 133.33 | 0.398 | 0.0135 | 0.3853 | 0.3856 |
| 126 mph Normal with No Ice | 146.67 | 0.492 | 0.0115 | 0.4392 | 0.4392 |
| 126 mph Normal with No Ice | 153.33 | 0.543 | 0.0103 | 0.4323 | 0.4324 |
| 126 mph Normal with No Ice | 160.00 | 0.597 | 0.0093 | 0.5475 | 0.5476 |
| 126 mph Normal with No Ice | 166.67 | 0.651 | 0.0090 | 0.4423 | 0.4423 |
| 126 mph Normal with No Ice | 180.00 | 0.758 | 0.0089 | 0.4586 | 0.4587 |
| 126 mph 60 degree with No Ice | 133.33 | 0.397 | 0.0205 | 0.3835 | 0.3836 |
| 126 mph 60 degree with No Ice | 146.67 | 0.491 | 0.0245 | 0.4281 | 0.4283 |
| 126 mph 60 degree with No Ice | 153.33 | 0.542 | 0.0280 | 0.4607 | 0.4614 |
| 126 mph 60 degree with No Ice | 160.00 | 0.595 | 0.0307 | 0.4267 | 0.4279 |
| 126 mph 60 degree with No Ice | 166.67 | 0.649 | 0.0312 | 0.4706 | 0.4711 |
| 126 mph 60 degree with No Ice | 180.00 | 0.755 | 0.0307 | 0.4588 | 0.4598 |
| 126 mph 90 degree with No Ice | 133.33 | 0.397 | -0.0184 | 0.3833 | 0.3838 |
| 126 mph 90 degree with No Ice | 146.67 | 0.490 | -0.0194 | 0.4247 | 0.4248 |
| 126 mph 90 degree with No Ice | 153.33 | 0.541 | -0.0207 | 0.4700 | 0.4705 |
| 126 mph 90 degree with No Ice | 160.00 | 0.594 | -0.0217 | 0.3778 | 0.3784 |
| 126 mph 90 degree with No Ice | 166.67 | 0.648 | -0.0218 | 0.4793 | 0.4794 |
| 126 mph 90 degree with No Ice | 180.00 | 0.753 | -0.0216 | 0.4594 | 0.4599 |
| 126 mph Normal with No Ice (Reduced DL) | 133.33 | 0.398 | 0.0135 | 0.3848 | 0.3850 |
| 126 mph Normal with No Ice (Reduced DL) | 146.67 | 0.491 | 0.0115 | 0.4385 | 0.4385 |
| 126 mph Normal with No Ice (Reduced DL) | 153.33 | 0.543 | 0.0103 | 0.4317 | 0.4318 |
| 126 mph Normal with No Ice (Reduced DL) | 160.00 | 0.597 | 0.0093 | 0.5469 | 0.5470 |
| 126 mph Normal with No Ice (Reduced DL) | 166.67 | 0.651 | 0.0090 | 0.4417 | 0.4417 |
| 126 mph Normal with No Ice (Reduced DL) | 180.00 | 0.757 | 0.0089 | 0.4580 | 0.4580 |
| 126 mph 60 deg with No Ice (Reduced DL) | 133.33 | 0.397 | 0.0204 | 0.3831 | 0.3832 |
| 126 mph 60 deg with No Ice (Reduced DL) | 146.67 | 0.490 | 0.0244 | 0.4276 | 0.4278 |
| 126 mph 60 deg with No Ice (Reduced DL) | 153.33 | 0.541 | 0.0280 | 0.4601 | 0.4608 |
| 126 mph 60 deg with No Ice (Reduced DL) | 160.00 | 0.594 | 0.0307 | 0.4261 | 0.4272 |
| 126 mph 60 deg with No Ice (Reduced DL) | 166.67 | 0.648 | 0.0311 | 0.4700 | 0.4705 |
| 126 mph 60 deg with No Ice (Reduced DL) | 180.00 | 0.754 | 0.0306 | 0.4582 | 0.4592 |
| 126 mph 90 deg with No Ice (Reduced DL) | 133.33 | 0.397 | -0.0184 | 0.3829 | 0.3833 |
| 126 mph 90 deg with No Ice (Reduced DL) | 146.67 | 0.490 | -0.0194 | 0.4241 | 0.4242 |
| 126 mph 90 deg with No Ice (Reduced DL) | 153.33 | 0.541 | -0.0207 | 0.4694 | 0.4699 |
| 126 mph 90 deg with No Ice (Reduced DL) | 160.00 | 0.594 | -0.0217 | 0.3772 | 0.3778 |
| 126 mph 90 deg with No Ice (Reduced DL) | 166.67 | 0.647 | -0.0218 | 0.4786 | 0.4788 |
| 126 mph 90 deg with No Ice (Reduced DL) | 180.00 | 0.753 | -0.0216 | 0.4588 | 0.4593 |
| 50 mph Normal with 1.00 in Radial Ice | 133.33 | 0.121 | 0.0043 | 0.1124 | 0.1125 |
| 50 mph Normal with 1.00 in Radial Ice | 146.67 | 0.148 | 0.0039 | 0.1267 | 0.1267 |
| 50 mph Normal with 1.00 in Radial Ice | 153.33 | 0.163 | 0.0036 | 0.1263 | 0.1264 |
| 50 mph Normal with 1.00 in Radial Ice | 160.00 | 0.178 | 0.0035 | 0.1489 | 0.1490 |
| 50 mph Normal with 1.00 in Radial Ice | 166.67 | 0.194 | 0.0033 | 0.1297 | 0.1297 |
| 50 mph Normal with 1.00 in Radial Ice | 180.00 | 0.224 | 0.0033 | 0.1326 | 0.1326 |
| 50 mph 60 deg with 1.00 in Radial Ice | 133.33 | 0.121 | 0.0048 | 0.1120 | 0.1120 |
| 50 mph 60 deg with 1.00 in Radial Ice | 146.67 | 0.148 | 0.0049 | 0.1239 | 0.1240 |
| 50 mph 60 deg with 1.00 in Radial Ice | 153.33 | 0.163 | 0.0051 | 0.1316 | 0.1316 |
| 50 mph 60 deg with 1.00 in Radial Ice | 160.00 | 0.178 | 0.0052 | 0.1255 | 0.1256 |
| 50 mph 60 deg with 1.00 in Radial Ice | 166.67 | 0.193 | 0.0052 | 0.1349 | 0.1350 |
| 50 mph 60 deg with 1.00 in Radial Ice | 180.00 | 0.224 | 0.0051 | 0.1325 | 0.1326 |
| 50 mph 90 deg with 1.00 in Radial Ice | 133.33 | 0.121 | -0.0055 | 0.1120 | 0.1120 |
| 50 mph 90 deg with 1.00 in Radial Ice | 146.67 | 0.148 | -0.0057 | 0.1238 | 0.1238 |
| 50 mph 90 deg with 1.00 in Radial Ice | 153.33 | 0.163 | -0.0059 | 0.1334 | 0.1335 |
| 50 mph 90 deg with 1.00 in Radial Ice | 160.00 | 0.178 | -0.0060 | 0.1167 | 0.1168 |
| 50 mph 90 deg with 1.00 in Radial Ice | 166.67 | 0.193 | -0.0060 | 0.1367 | 0.1367 |
| 50 mph 90 deg with 1.00 in Radial Ice | 180.00 | 0.224 | -0.0059 | 0.1327 | 0.1328 |
| Seismic Normal M1 | 133.33 | 0.027 | 0.0012 | 0.0278 | 0.0278 |

Site Number: 411183

Code:

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Site Name: WATERFORD CT, CT

Engineering Number: 13698641_C3_02

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Customer: VERIZON WIRELESS

| | | | | | |
|-------------------------------------|--------|-------|---------|--------|--------|
| Seismic Normal M1 | 146.67 | 0.034 | 0.0012 | 0.0318 | 0.0318 |
| Seismic Normal M1 | 153.33 | 0.038 | 0.0011 | 0.0329 | 0.0329 |
| Seismic Normal M1 | 160.00 | 0.042 | 0.0011 | 0.0337 | 0.0337 |
| Seismic Normal M1 | 166.67 | 0.046 | 0.0011 | 0.0345 | 0.0345 |
| Seismic Normal M1 | 180.00 | 0.054 | 0.0010 | 0.0339 | 0.0339 |
| Seismic 60 deg M1 | 133.33 | 0.027 | 0.0012 | 0.0279 | 0.0279 |
| Seismic 60 deg M1 | 146.67 | 0.034 | 0.0012 | 0.0315 | 0.0315 |
| Seismic 60 deg M1 | 153.33 | 0.038 | 0.0011 | 0.0330 | 0.0330 |
| Seismic 60 deg M1 | 160.00 | 0.042 | 0.0011 | 0.0337 | 0.0337 |
| Seismic 60 deg M1 | 166.67 | 0.046 | 0.0011 | 0.0345 | 0.0345 |
| Seismic 60 deg M1 | 180.00 | 0.054 | 0.0010 | 0.0340 | 0.0340 |
| Seismic 90 deg M1 | 133.33 | 0.027 | -0.0014 | 0.0279 | 0.0279 |
| Seismic 90 deg M1 | 146.67 | 0.034 | -0.0014 | 0.0317 | 0.0317 |
| Seismic 90 deg M1 | 153.33 | 0.038 | -0.0013 | 0.0329 | 0.0330 |
| Seismic 90 deg M1 | 160.00 | 0.042 | -0.0013 | 0.0337 | 0.0337 |
| Seismic 90 deg M1 | 166.67 | 0.046 | -0.0013 | 0.0345 | 0.0345 |
| Seismic 90 deg M1 | 180.00 | 0.054 | -0.0012 | 0.0340 | 0.0340 |
| Seismic (Reduced DL) Normal M1 | 133.33 | 0.027 | 0.0012 | 0.0277 | 0.0277 |
| Seismic (Reduced DL) Normal M1 | 146.67 | 0.034 | 0.0012 | 0.0317 | 0.0317 |
| Seismic (Reduced DL) Normal M1 | 153.33 | 0.038 | 0.0011 | 0.0328 | 0.0329 |
| Seismic (Reduced DL) Normal M1 | 160.00 | 0.042 | 0.0011 | 0.0336 | 0.0336 |
| Seismic (Reduced DL) Normal M1 | 166.67 | 0.046 | 0.0011 | 0.0344 | 0.0344 |
| Seismic (Reduced DL) Normal M1 | 180.00 | 0.054 | 0.0010 | 0.0338 | 0.0338 |
| Seismic (Reduced DL) 60 deg M1 | 133.33 | 0.027 | 0.0012 | 0.0277 | 0.0277 |
| Seismic (Reduced DL) 60 deg M1 | 146.67 | 0.034 | 0.0012 | 0.0314 | 0.0314 |
| Seismic (Reduced DL) 60 deg M1 | 153.33 | 0.038 | 0.0011 | 0.0329 | 0.0329 |
| Seismic (Reduced DL) 60 deg M1 | 160.00 | 0.042 | 0.0011 | 0.0336 | 0.0336 |
| Seismic (Reduced DL) 60 deg M1 | 166.67 | 0.046 | 0.0011 | 0.0344 | 0.0344 |
| Seismic (Reduced DL) 60 deg M1 | 180.00 | 0.054 | 0.0010 | 0.0339 | 0.0339 |
| Seismic (Reduced DL) 90 deg M1 | 133.33 | 0.027 | -0.0014 | 0.0277 | 0.0277 |
| Seismic (Reduced DL) 90 deg M1 | 146.67 | 0.034 | -0.0014 | 0.0316 | 0.0316 |
| Seismic (Reduced DL) 90 deg M1 | 153.33 | 0.038 | -0.0013 | 0.0329 | 0.0329 |
| Seismic (Reduced DL) 90 deg M1 | 160.00 | 0.042 | -0.0013 | 0.0336 | 0.0336 |
| Seismic (Reduced DL) 90 deg M1 | 166.67 | 0.046 | -0.0012 | 0.0344 | 0.0344 |
| Seismic (Reduced DL) 90 deg M1 | 180.00 | 0.054 | -0.0012 | 0.0339 | 0.0339 |
| Serviceability - 60 mph Wind Normal | 133.33 | 0.091 | 0.0030 | 0.0876 | 0.0877 |
| Serviceability - 60 mph Wind Normal | 146.67 | 0.112 | 0.0025 | 0.0998 | 0.0998 |
| Serviceability - 60 mph Wind Normal | 153.33 | 0.124 | 0.0022 | 0.0981 | 0.0981 |
| Serviceability - 60 mph Wind Normal | 160.00 | 0.136 | 0.0020 | 0.1241 | 0.1241 |
| Serviceability - 60 mph Wind Normal | 166.67 | 0.148 | 0.0019 | 0.1002 | 0.1002 |
| Serviceability - 60 mph Wind Normal | 180.00 | 0.173 | 0.0018 | 0.1039 | 0.1040 |
| Serviceability - 60 mph Wind 60 deg | 133.33 | 0.091 | 0.0035 | 0.0870 | 0.0870 |
| Serviceability - 60 mph Wind 60 deg | 146.67 | 0.112 | 0.0036 | 0.0970 | 0.0970 |
| Serviceability - 60 mph Wind 60 deg | 153.33 | 0.124 | 0.0037 | 0.1044 | 0.1045 |
| Serviceability - 60 mph Wind 60 deg | 160.00 | 0.136 | 0.0038 | 0.0967 | 0.0968 |
| Serviceability - 60 mph Wind 60 deg | 166.67 | 0.148 | 0.0037 | 0.1066 | 0.1067 |
| Serviceability - 60 mph Wind 60 deg | 180.00 | 0.172 | 0.0036 | 0.1040 | 0.1040 |
| Serviceability - 60 mph Wind 90 deg | 133.33 | 0.091 | -0.0041 | 0.0871 | 0.0872 |
| Serviceability - 60 mph Wind 90 deg | 146.67 | 0.112 | -0.0042 | 0.0965 | 0.0965 |
| Serviceability - 60 mph Wind 90 deg | 153.33 | 0.123 | -0.0045 | 0.1066 | 0.1067 |
| Serviceability - 60 mph Wind 90 deg | 160.00 | 0.135 | -0.0047 | 0.0856 | 0.0858 |
| Serviceability - 60 mph Wind 90 deg | 166.67 | 0.148 | -0.0046 | 0.1086 | 0.1086 |
| Serviceability - 60 mph Wind 90 deg | 180.00 | 0.172 | -0.0045 | 0.1041 | 0.1042 |

Maximum Reactions Summary

| Anchor Group | Vertical (kip) | | | | Horizontal (kip) | | Moment (kip-ft) | |
|--------------|----------------|----------|--------|-------|------------------|----------|-----------------|----------|
| | DL+WL | DL+WL+IL | UpLift | Shear | DL+WL | DL+WL+IL | DL+WL | DL+WL+IL |
| Base | 75.99 | 146.88 | 322.35 | 36.84 | 59.82 | 19.20 | 6572.10 | 2042.00 |



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

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050597
Maser Consulting Connecticut Project #: 21777545A

November 3, 2021

Site Information

Site ID: 468757-VZW / WATERFORD CT
Site Name: WATERFORD CT
Carrier Name: Verizon Wireless
Address: 53 Dayton Rd.
Waterford, Connecticut 06385
New London County
Latitude: 41.377839°
Longitude: -72.139347°

Structure Information

Tower Type: 180-Ft Monopole
Mount Type: 15.00-Ft Sector Frame

FUZE ID # 16244096

Analysis Results

Sector Frame: 73.3% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements may also be Noted on A & E drawings

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Chuanjiao Hu



Digitally signed by Justin Linette
Date: 2021.11.03 16:21:59-04'00'

Executive Summary:

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

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

Sources of Information:

| Document Type | Remarks |
|--|---|
| <i>Radio Frequency Data Sheet (RFDS)</i> | <i>Verizon RFDS, Site ID: 325077, dated June 9, 2021</i> |
| <i>Mount Mapping Report</i> | <i>RKS Design & Engineering, LLC, Site ID: ATC:411183, dated October 25, 2021</i> |

Analysis Criteria:

| | |
|-------------------------|---|
| Codes and Standards: | ANSI/TIA-222-H |
| Wind Parameters: | Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 126 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.992 |
| Seismic Parameters: | S_s : 0.194 g S_1 : 0.053 g |
| 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 mounts:

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|----------------------|--------------------------|----------|--------------|------------------------|----------|
| 133.80 | 136.30 | 3 | Samsung | MT6407-77A | Added |
| | 134.80 | 3 | Andrew | LNx-6512DS-A1M | Retained |
| | | 6 | JMA Wireless | MX06FRO660-03 | |
| | | 3 | Samsung | B2/B66A RRH-BR049 | |
| | | 2 | Raycap | RRFDC-3315-PF-48* | |
| | | 3 | Samsung | B5/B13 RRH-BR04C | |
| | 132.80 | 3 | Samsung | XXDWMM-12.5-65-8T-CBRS | |

* Equipment is flush mounted directly to the Monopole. They are not mounted on sector frame mounts and are not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

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

Analysis Results:

| Component | Utilization % | Pass/Fail |
|---------------------|---------------|-----------|
| Face Horizontal | 26.2 % | Pass |
| Antenna Pipe | 38.6 % | Pass |
| Standoff Horizontal | 37.3 % | Pass |
| Standoff Bar | 51.8 % | Pass |
| Standoff Vertical | 55.1 % | Pass |
| Standoff Diagonal | 25.2 % | Pass |
| Standoff Tab | 73.3 % | Pass |
| Mount Angle | 28.7 % | Pass |
| Tie Back | 5.3 % | Pass |
| Mount Connection | 23.9 % | Pass |

| | |
|---|--------------|
| Structure Rating – (Controlling Utilization of all Components) | 73.3% |
|---|--------------|

Recommendation:

The existing mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

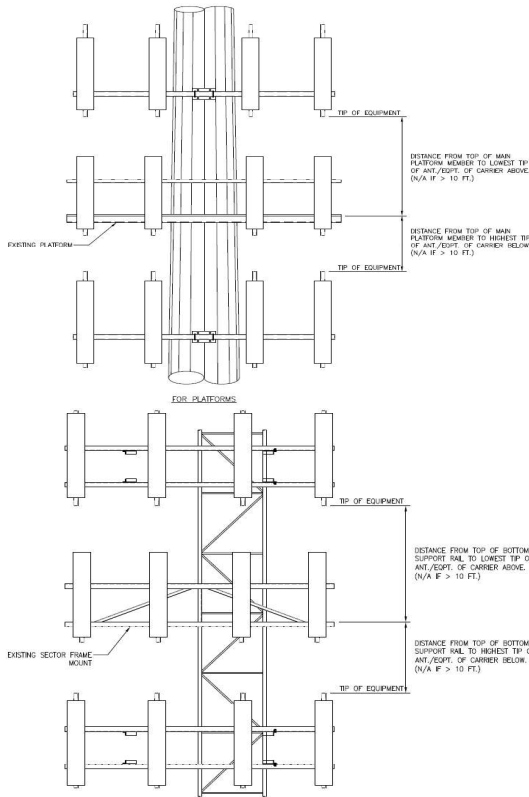
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

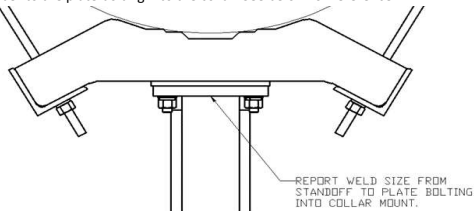
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



Please insert a photo of the mount centerline measurement here.



For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



| | | | | | | | | | | |
|-------------------|------------------|-------|-------|-------|--|---------|-------|-------|--------|-----|
| Ant on Standoff | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Sector C | | | | | | | | | | |
| Ant _{1a} | | | | | | | | | | |
| Ant _{1b} | LNX-6512DS-A1M | 11.90 | 7.10 | 48.50 | | 131.671 | 24.25 | 10.50 | 260.00 | 147 |
| Ant _{1c} | | | | | | | | | | |
| Ant _{2a} | | | | | | | | | | |
| Ant _{2b} | | | | | | | | | | |
| Ant _{2c} | | | | | | | | | | |
| Ant _{3a} | RFV01U-D2A | 15.00 | 8.10 | 15.00 | | 131.15 | 37.25 | 12.00 | | 147 |
| Ant _{3b} | (2)MX06FRO660-03 | 15.40 | 10.70 | 71.30 | | 131.296 | 35.50 | 11.50 | 260.00 | 147 |
| Ant _{3c} | RFV01U-D1A | 15.00 | 10.00 | 15.00 | | 131.15 | 37.25 | 12.00 | | 147 |
| Ant _{4a} | | | | | | | | | | |
| Ant _{4b} | | | | | | | | | | |
| Ant _{4c} | | | | | | | | | | |
| Ant _{5a} | RT4401-48A | 8.60 | 4.20 | 13.90 | | 131.213 | 29.50 | 14.00 | | 148 |
| Ant _{5b} | | | | | | | | | | |
| Ant _{5c} | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Standoff | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Ant on Tower | | | | | | | | | | |
| Sector D | | | | | | | | | | |
| Ant _{1a} | | | | | | | | | | |
| Ant _{1b} | | | | | | | | | | |
| Ant _{1c} | | | | | | | | | | |
| Ant _{2a} | | | | | | | | | | |
| Ant _{2b} | | | | | | | | | | |
| Ant _{2c} | | | | | | | | | | |
| Ant _{3a} | | | | | | | | | | |
| Ant _{3b} | | | | | | | | | | |
| Ant _{3c} | | | | | | | | | | |
| Ant _{4a} | | | | | | | | | | |
| Ant _{4b} | | | | | | | | | | |
| Ant _{4c} | | | | | | | | | | |
| Ant _{5a} | | | | | | | | | | |
| 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 # |
| 1 | COAX TOTAL (8): (6) FH 1-5/8, (2) 1.50"Ø HYBRID | |
| 2 | SECTOR B & SECTOR C ARE UNABLE TO MEASURE | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

| Observed Obstructions to Tower Lighting System | | | |
|---|---------|----------------------|--|
| If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below. | | | |
| Description of Obstruction: | Photo # | | |
| Type of Light: | Photo # | Additional Comments: | |

| | | | |
|---|--|---------|--|
| Lighting Technology: | | Photo # | |
| Elevation (AGL) at base of light (Ft.): | | Photo # | |
| Is a service loop available? | | Photo # | |
| Is beacon installed on an extension? | | 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.



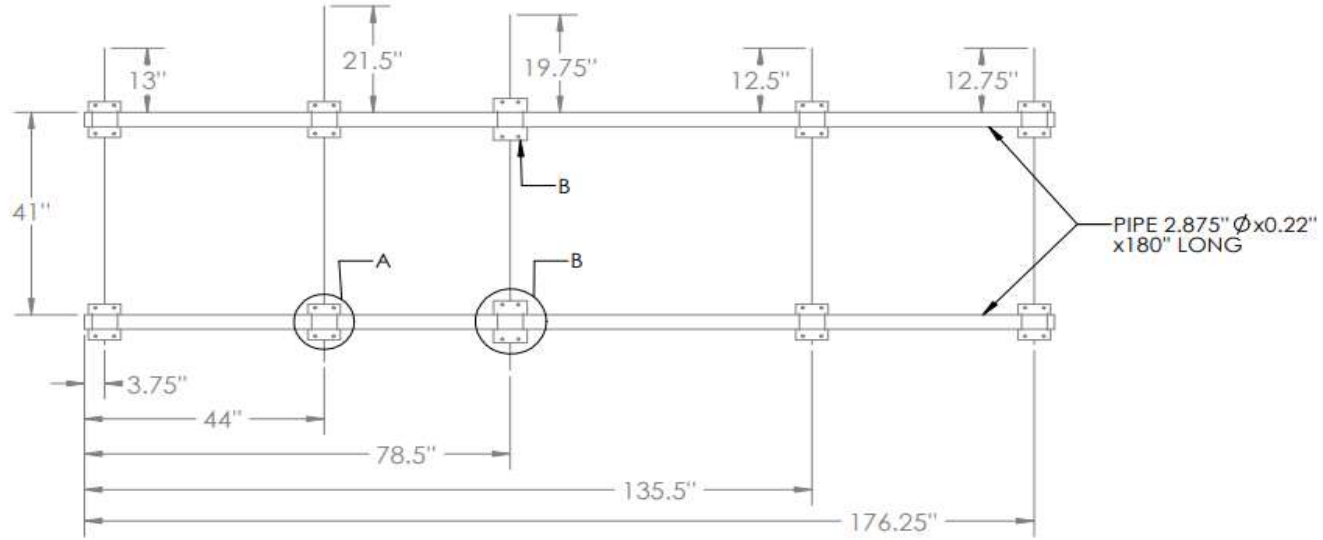
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

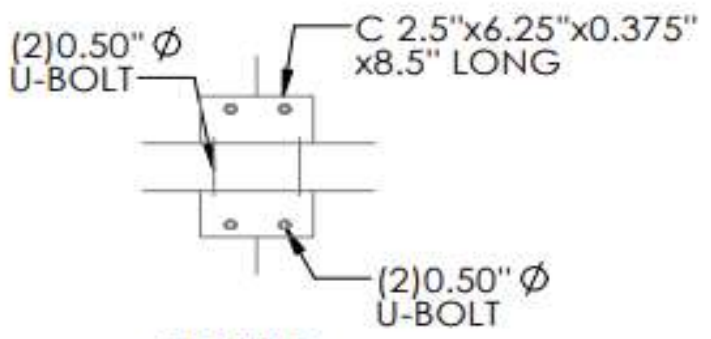
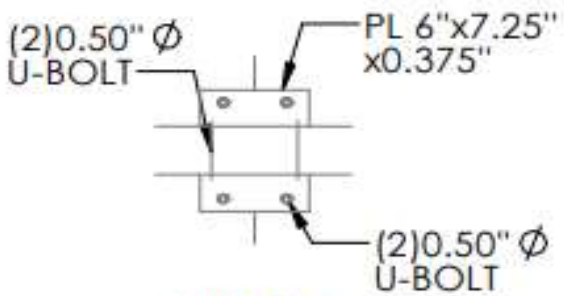
| | | | |
|----------------------------|-------------------------------|-------------------------------|--------------|
| Tower Owner: | AMERICAN TOWER CORPORATION | Mapping Date: | 10/25/2021 |
| Site Name: | ATC:WATERFORD CT | Tower Type: | Self Support |
| Site Number or ID: | ATC:411183 | Tower Height (Ft.): | UNKNOWN |
| Mapping Contractor: | RKS Design & Engineering, LLC | Mount Elevation (Ft.): | 130.65 |

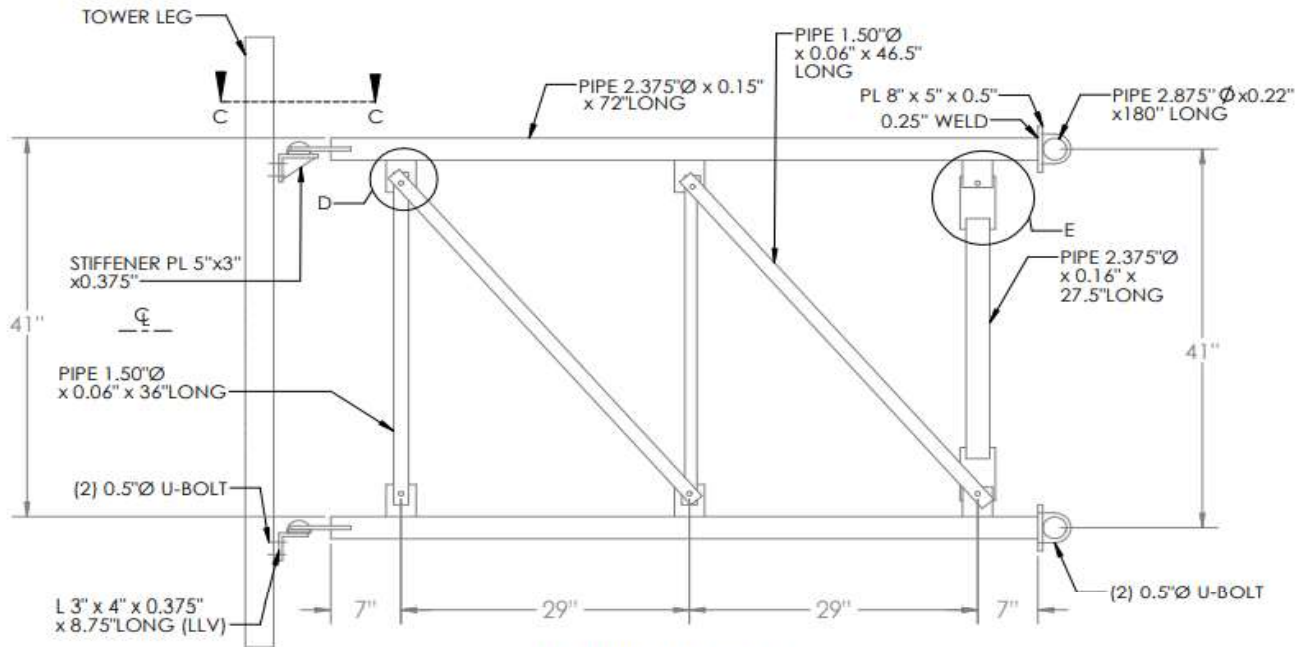
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is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

Please Insert Sketches of the Antenna Mount

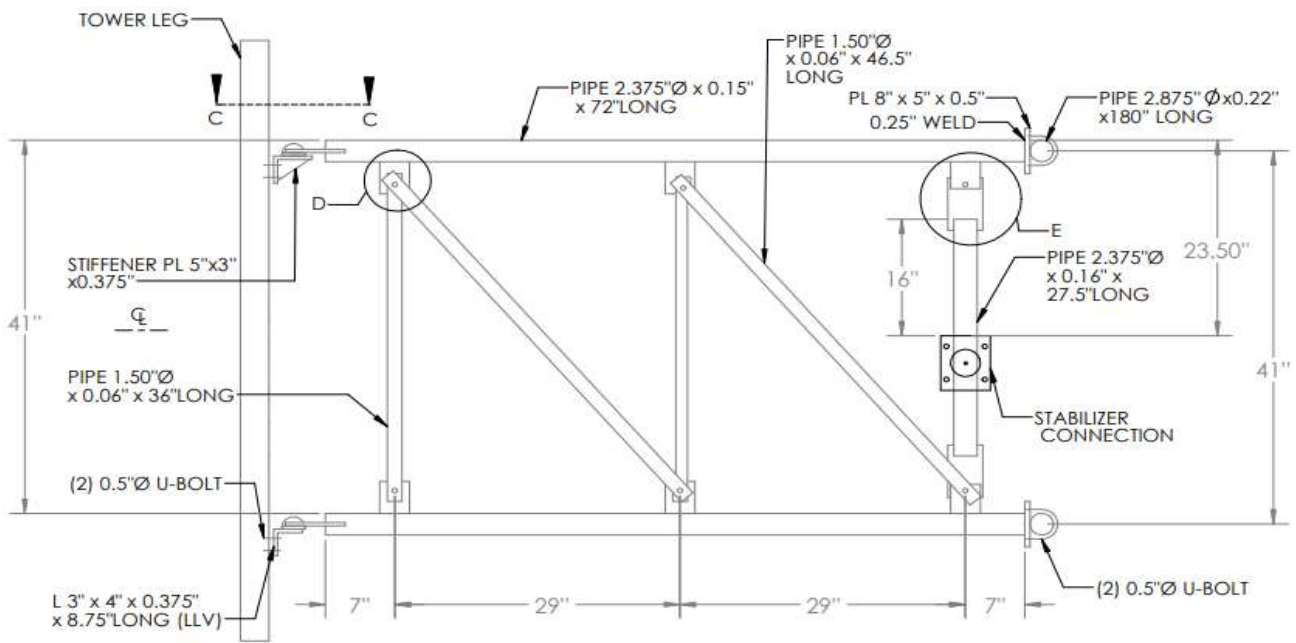


SECTOR VIEW A, B & C

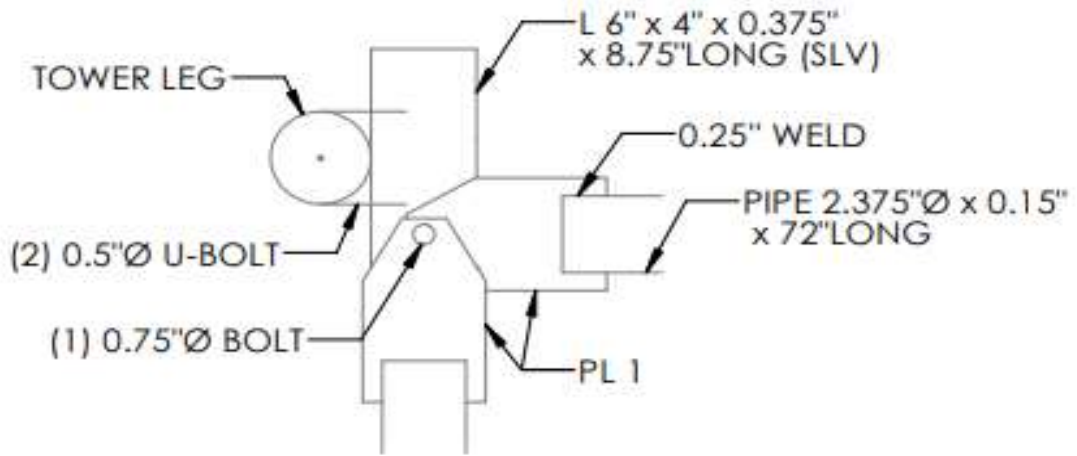




MOUNT STAND-OFF-1



MOUNT STAND-OFF-2



SECTION C-C

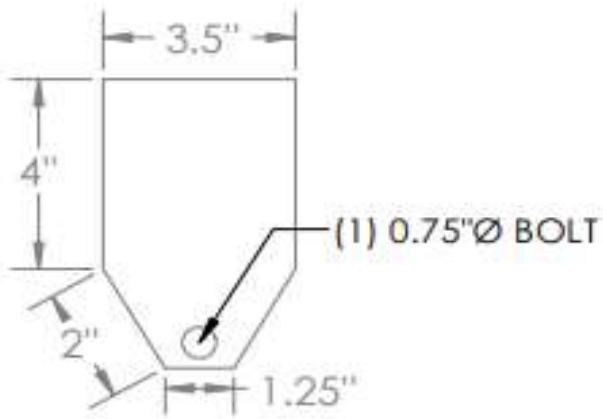
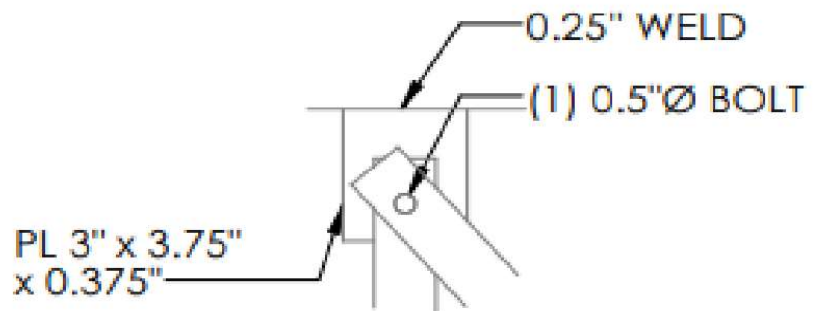
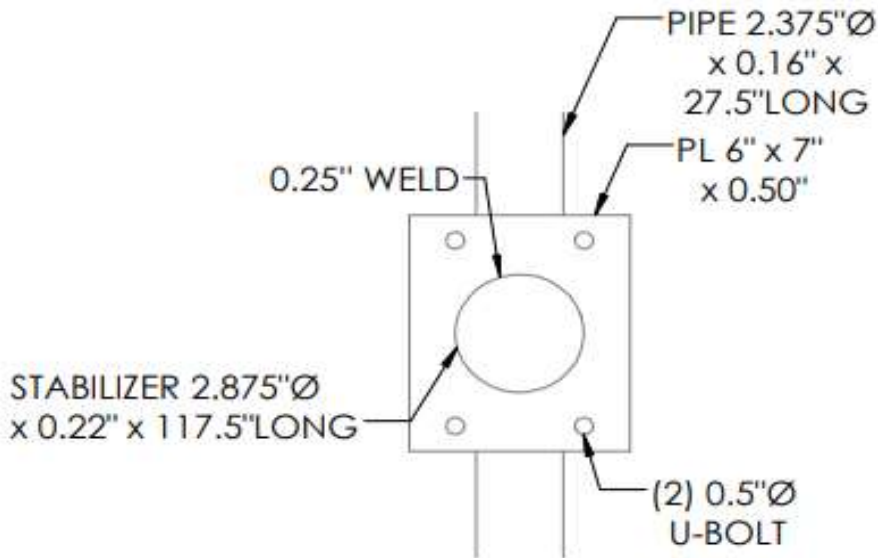
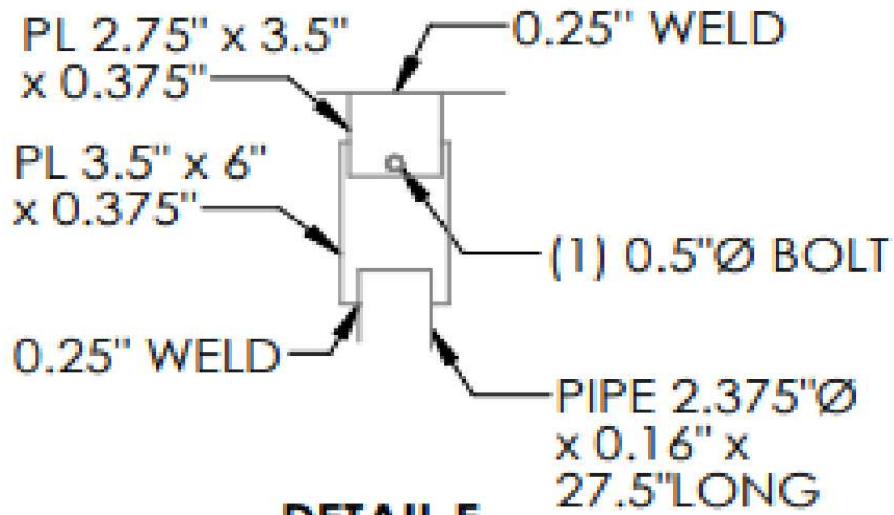


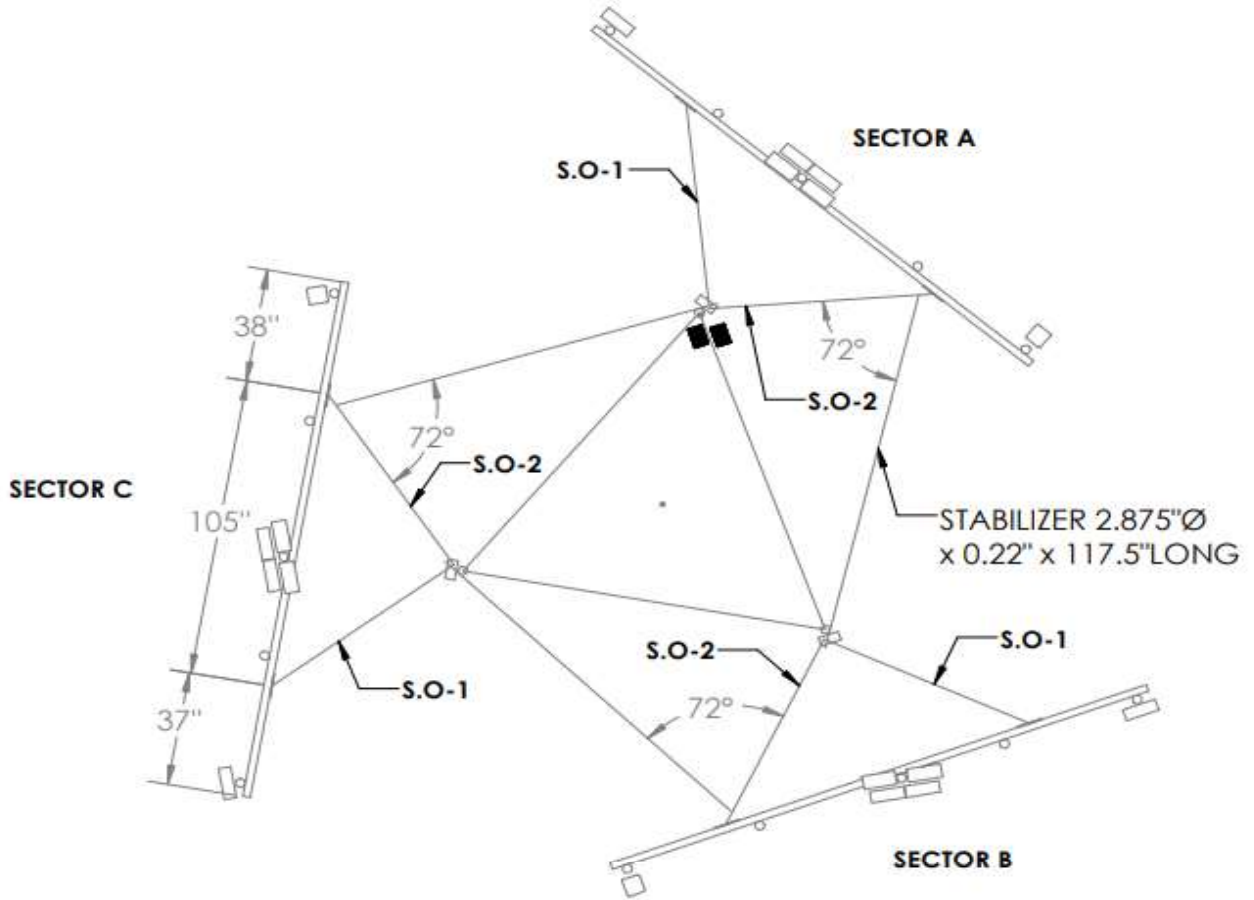
PLATE 1 (0.375" THK)



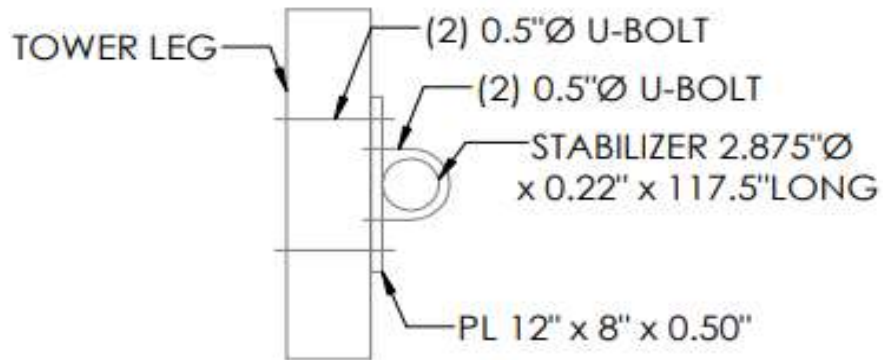
DETAIL D



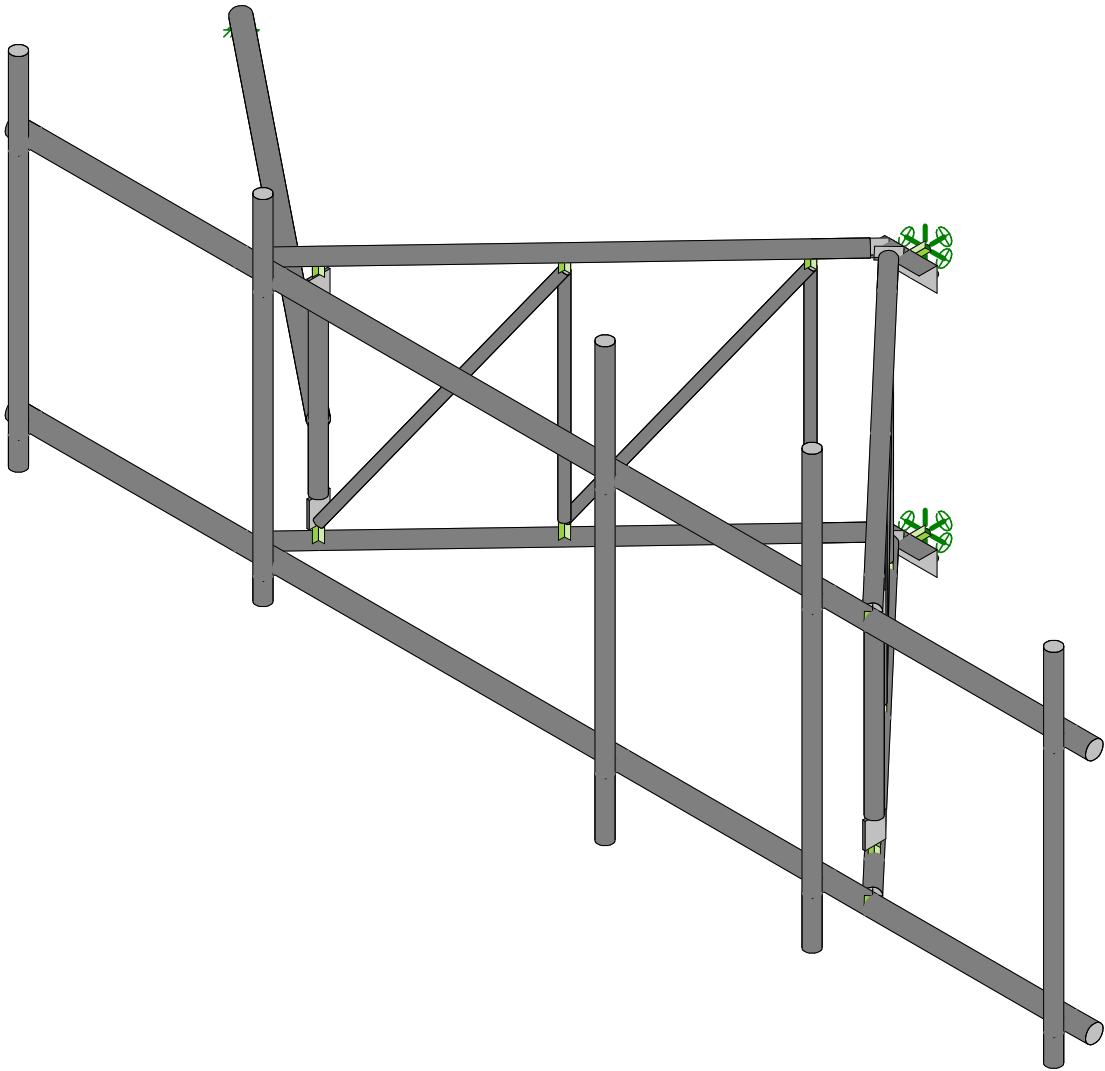
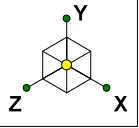
**STABILIZER CONNECTION
ON MOUNT BRACING**



ANTENNA PLAN VIEW



STABILIZER CONNECTION
ON TOWER LEG



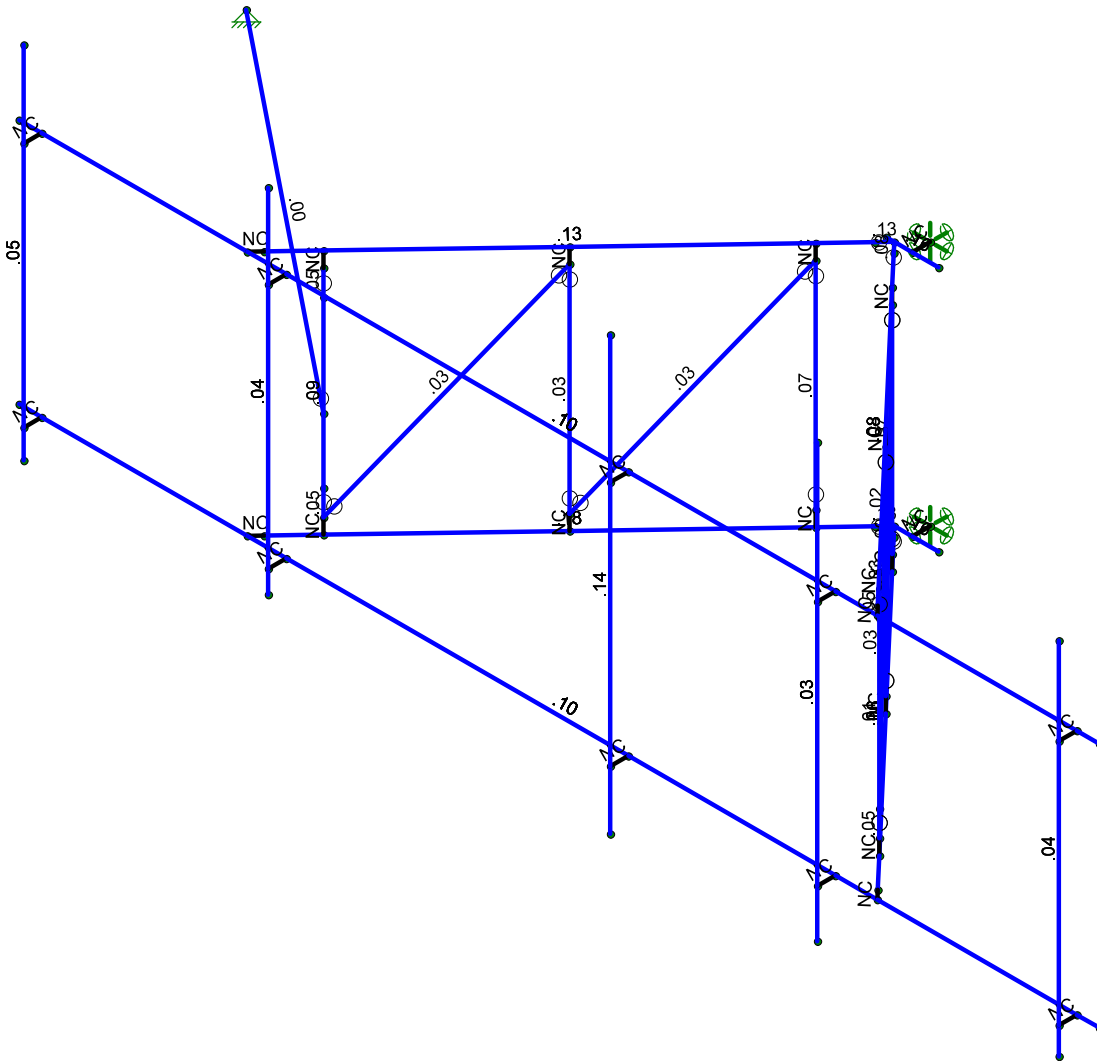
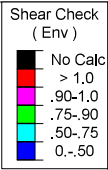
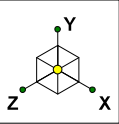
Envelope Only Solution

Maser Consulting

SK - 1

Nov 2, 2021 at 2:39 PM

468757-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|------------------|--|---------------------------|
| Maser Consulting | | SK - 2 |
| | | Nov 3, 2021 at 11:06 AM |
| | | 468757-VZW_MT_LOT_A_H.r3d |

Basic Load Cases

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me...) | Surface(P... |
|----|------------------------|----------|-----------|-----------|-----------|-------|-------|-------------------------|--------------|
| 1 | Antenna D | None | | | | | 36 | | |
| 2 | Antenna Di | None | | | | | 36 | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 36 | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 36 | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 36 | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 36 | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 36 | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 36 | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 36 | | |
| 10 | Antenna Wo (210 Deg) | None | | | | | 36 | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 36 | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 36 | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 36 | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 36 | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 36 | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 36 | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 36 | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 36 | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 36 | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 36 | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 36 | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 36 | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 36 | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 36 | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 36 | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 36 | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 36 | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 36 | | |
| 29 | Antenna Wm (60 Deg) | None | | | | | 36 | | |
| 30 | Antenna Wm (90 Deg) | None | | | | | 36 | | |
| 31 | Antenna Wm (120 Deg) | None | | | | | 36 | | |
| 32 | Antenna Wm (150 Deg) | None | | | | | 36 | | |
| 33 | Antenna Wm (180 Deg) | None | | | | | 36 | | |
| 34 | Antenna Wm (210 Deg) | None | | | | | 36 | | |
| 35 | Antenna Wm (240 Deg) | None | | | | | 36 | | |
| 36 | Antenna Wm (270 Deg) | None | | | | | 36 | | |
| 37 | Antenna Wm (300 Deg) | None | | | | | 36 | | |
| 38 | Antenna Wm (330 Deg) | None | | | | | 36 | | |
| 39 | Structure D | None | | -1 | | | | | |
| 40 | Structure Di | None | | | | | | 32 | |
| 41 | Structure Wo (0 Deg) | None | | | | | | 64 | |
| 42 | Structure Wo (30 Deg) | None | | | | | | 64 | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 64 | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 64 | |
| 45 | Structure Wo (120 D... | None | | | | | | 64 | |
| 46 | Structure Wo (150 D... | None | | | | | | 64 | |
| 47 | Structure Wo (180 D... | None | | | | | | 64 | |
| 48 | Structure Wo (210 D... | None | | | | | | 64 | |
| 49 | Structure Wo (240 D... | None | | | | | | 64 | |
| 50 | Structure Wo (270 D... | None | | | | | | 64 | |
| 51 | Structure Wo (300 D... | None | | | | | | 64 | |
| 52 | Structure Wo (330 D... | None | | | | | | 64 | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 64 | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 64 | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 64 | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 64 | |

Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|------------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 57 | Structure Wi (120 De.. | None | | | | | | 64 | |
| 58 | Structure Wi (150 De.. | None | | | | | | 64 | |
| 59 | Structure Wi (180 De.. | None | | | | | | 64 | |
| 60 | Structure Wi (210 De.. | None | | | | | | 64 | |
| 61 | Structure Wi (240 De.. | None | | | | | | 64 | |
| 62 | Structure Wi (270 De.. | None | | | | | | 64 | |
| 63 | Structure Wi (300 De.. | None | | | | | | 64 | |
| 64 | Structure Wi (330 De.. | None | | | | | | 64 | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 64 | |
| 66 | Structure Wm (30 De.. | None | | | | | | 64 | |
| 67 | Structure Wm (60 De.. | None | | | | | | 64 | |
| 68 | Structure Wm (90 De.. | None | | | | | | 64 | |
| 69 | Structure Wm (120 D.. | None | | | | | | 64 | |
| 70 | Structure Wm (150 D.. | None | | | | | | 64 | |
| 71 | Structure Wm (180 D.. | None | | | | | | 64 | |
| 72 | Structure Wm (210 D.. | None | | | | | | 64 | |
| 73 | Structure Wm (240 D.. | None | | | | | | 64 | |
| 74 | Structure Wm (270 D.. | None | | | | | | 64 | |
| 75 | Structure Wm (300 D.. | None | | | | | | 64 | |
| 76 | Structure Wm (330 D.. | None | | | | | | 64 | |
| 77 | Lm1 | None | | | | | 1 | | |
| 78 | Lm2 | None | | | | | 1 | | |
| 79 | Lv1 | None | | | | | 1 | | |
| 80 | Lv2 | None | | | | | 1 | | |
| 81 | Antenna Ev | None | | | | | 36 | | |
| 82 | Antenna Eh (0 Deg) | None | | | | | 24 | | |
| 83 | Antenna Eh (90 Deg) | None | | | | | 24 | | |
| 84 | Structure Ev | ELY | | -.041 | | | | | |
| 85 | Structure Eh (0 Deg) | ELZ | -.103 | | | | | | |
| 86 | Structure Eh (90 Deg) | ELX | | | .103 | | | | |

Load Combinations

| | Description | Solve | PDelta | S... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | |
|----|-----------------------|-------|--------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|
| 1 | 1.2D+1.0Wo (0 Deg) | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 3 | 1 | 41 | 1 | | | | | | | | | | | |
| 2 | 1.2D+1.0Wo (30 De.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 4 | 1 | 42 | 1 | | | | | | | | | | | |
| 3 | 1.2D+1.0Wo (60 De.. | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 5 | 1 | 43 | 1 | | | | | | | | | | | |
| 4 | 1.2D+1.0Wo (90 De.. | 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 + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 15 | 1 | 53 | 1 | | | | | | | |
| 14 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 16 | 1 | 54 | 1 | | | | | | | |
| 15 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 17 | 1 | 55 | 1 | | | | | | | |
| 16 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 18 | 1 | 56 | 1 | | | | | | | |
| 17 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 19 | 1 | 57 | 1 | | | | | | | |
| 18 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 20 | 1 | 58 | 1 | | | | | | | |
| 19 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 21 | 1 | 59 | 1 | | | | | | | |
| 20 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 22 | 1 | 60 | 1 | | | | | | | |
| 21 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 23 | 1 | 61 | 1 | | | | | | | |
| 22 | 1.2D + 1.0Di + 1.0... | Yes | Y | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 24 | 1 | 62 | 1 | | | | | | | |



Load Combinations (Continued)

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

Joint Coordinates and Temperatures

| | Label | X [in] | Y [in] | Z [in] | Temp [F] | Detach From Diap... |
|----|-------|------------|--------|-----------|----------|---------------------|
| 1 | N73 | 108 | -5.5 | 55. | 0 | |
| 2 | N74 | 288 | -5.5 | 55. | 0 | |
| 3 | N77 | 108 | -46.5 | 55. | 0 | |
| 4 | N78 | 288 | -46.5 | 55. | 0 | |
| 5 | N119 | 284.25 | -5.5 | 55. | 0 | |
| 6 | N120 | 284.25 | -46.5 | 55. | 0 | |
| 7 | N121 | 284.25 | -5.5 | 58. | 0 | |
| 8 | N122 | 284.25 | -46.5 | 58. | 0 | |
| 9 | N123 | 284.25 | 9 | 58. | 0 | |
| 10 | N124 | 284.25 | -51 | 58. | 0 | |
| 11 | N51 | 251. | -5.5 | 55. | 0 | |
| 12 | N52 | 251. | -46.5 | 55. | 0 | |
| 13 | N53 | 146. | -5.5 | 55. | 0 | |
| 14 | N54 | 146. | -46.5 | 55. | 0 | |
| 15 | N55 | 147.376709 | -5.5 | 53.549251 | 0 | |
| 16 | N56 | 196.938239 | -5.5 | 1.322297 | 0 | |
| 17 | N57 | 198.5 | -5.5 | -0.323457 | 0 | |
| 18 | N59 | 147.376709 | -46.5 | 53.549251 | 0 | |
| 19 | N60 | 196.938239 | -46.5 | 1.322297 | 0 | |
| 20 | N61 | 198.5 | -46.5 | -0.323457 | 0 | |
| 21 | N61A | 152.195191 | -5.5 | 48.471631 | 0 | |
| 22 | N62 | 152.195191 | -46.5 | 48.471631 | 0 | |
| 23 | N64 | 152.195191 | -12.25 | 48.471631 | 0 | |
| 24 | N65 | 152.195191 | -39.75 | 48.471631 | 0 | |
| 25 | N65A | 172.157474 | -8. | 27.435774 | 0 | |
| 26 | N66 | 172.157474 | -44. | 27.435774 | 0 | |
| 27 | N67 | 172.157474 | -5.5 | 27.435774 | 0 | |
| 28 | N68 | 172.157474 | -46.5 | 27.435774 | 0 | |
| 29 | N69 | 192.119757 | -8. | 6.399917 | 0 | |
| 30 | N70 | 192.119757 | -44. | 6.399917 | 0 | |
| 31 | N71 | 192.119757 | -5.5 | 6.399917 | 0 | |
| 32 | N72 | 192.119757 | -46.5 | 6.399917 | 0 | |
| 33 | N73A | 152.195191 | -8. | 48.471631 | 0 | |
| 34 | N74A | 152.195191 | -44. | 48.471631 | 0 | |
| 35 | N77A | 249.623291 | -5.5 | 53.549251 | 0 | |
| 36 | N78A | 200.061761 | -5.5 | 1.322297 | 0 | |
| 37 | N80 | 249.623291 | -46.5 | 53.549251 | 0 | |
| 38 | N81 | 200.061761 | -46.5 | 1.322297 | 0 | |
| 39 | N83 | 244.804809 | -5.5 | 48.471631 | 0 | |
| 40 | N84 | 244.804809 | -46.5 | 48.471631 | 0 | |
| 41 | N85 | 244.804809 | -12.25 | 48.471631 | 0 | |
| 42 | N86 | 244.804809 | -39.75 | 48.471631 | 0 | |
| 43 | N87 | 224.842526 | -8. | 27.435774 | 0 | |
| 44 | N88 | 224.842526 | -44. | 27.435774 | 0 | |
| 45 | N89 | 224.842526 | -5.5 | 27.435774 | 0 | |
| 46 | N90 | 224.842526 | -46.5 | 27.435774 | 0 | |
| 47 | N91 | 204.880243 | -8. | 6.399917 | 0 | |
| 48 | N92 | 204.880243 | -44. | 6.399917 | 0 | |
| 49 | N93 | 204.880243 | -5.5 | 6.399917 | 0 | |
| 50 | N94 | 204.880243 | -46.5 | 6.399917 | 0 | |
| 51 | N95 | 244.804809 | -8. | 48.471631 | 0 | |
| 52 | N96 | 244.804809 | -44. | 48.471631 | 0 | |
| 53 | N93A | 205.875 | -5.5 | -0.323457 | 0 | |
| 54 | N94A | 197.125 | -5.5 | -0.323457 | 0 | |
| 55 | N95A | 201.5 | -5.5 | -0.323457 | 0 | |
| 56 | N96A | 201.5 | -5.5 | -3.323457 | 0 | |

Joint Coordinates and Temperatures (Continued)

| | Label | X [in] | Y [in] | Z [in] | Temp [F] | Detach From Diap... |
|----|-------|------------|--------|-----------|----------|---------------------|
| 57 | N57A | 205.875 | -46.5 | -0.323457 | 0 | |
| 58 | N58 | 197.125 | -46.5 | -0.323457 | 0 | |
| 59 | N59A | 201.5 | -46.5 | -0.323457 | 0 | |
| 60 | N60A | 201.5 | -46.5 | -3.323457 | 0 | |
| 61 | N61B | 152.195191 | -29. | 48.471631 | 0 | |
| 62 | N62A | 87.5 | -29. | -3.323457 | 0 | |
| 63 | N63 | 244. | -5.5 | 55. | 0 | |
| 64 | N64A | 244. | -46.5 | 55. | 0 | |
| 65 | N65B | 244. | -5.5 | 58. | 0 | |
| 66 | N66A | 244. | -46.5 | 58. | 0 | |
| 67 | N67A | 244. | 17.5 | 58. | 0 | |
| 68 | N68A | 244. | -54.5 | 58. | 0 | |
| 69 | N69A | 209.5 | -5.5 | 55. | 0 | |
| 70 | N70A | 209.5 | -46.5 | 55. | 0 | |
| 71 | N71A | 209.5 | -5.5 | 58. | 0 | |
| 72 | N72A | 209.5 | -46.5 | 58. | 0 | |
| 73 | N73B | 209.5 | 15.75 | 58. | 0 | |
| 74 | N74B | 209.5 | -56.25 | 58. | 0 | |
| 75 | N75 | 152.5 | -5.5 | 55. | 0 | |
| 76 | N76 | 152.5 | -46.5 | 55. | 0 | |
| 77 | N77B | 152.5 | -5.5 | 58. | 0 | |
| 78 | N78B | 152.5 | -46.5 | 58. | 0 | |
| 79 | N79 | 152.5 | 8.5 | 58. | 0 | |
| 80 | N80A | 152.5 | -50.25 | 58. | 0 | |
| 81 | N81A | 111.75 | -5.5 | 55. | 0 | |
| 82 | N82 | 111.75 | -46.5 | 55. | 0 | |
| 83 | N83A | 111.75 | -5.5 | 58. | 0 | |
| 84 | N84A | 111.75 | -46.5 | 58. | 0 | |
| 85 | N85A | 111.75 | 8.75 | 58. | 0 | |
| 86 | N86A | 111.75 | -51.25 | 58. | 0 | |

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design ... | A [in ²] | Iyy [in ⁴] | Izz [in ⁴] | J [in ⁴] |
|---|---------------------|-------------|--------|--------------|-----------|------------|----------------------|------------------------|------------------------|----------------------|
| 1 | Antenna Pipe | PIPE 2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 2 | Standoff Horizontal | PIPE 2.0 | Beam | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 3 | Standoff Vertical | PIPE 2.0 | Beam | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 4 | Standoff Diagonal | HSS1.5X0.06 | Beam | Pipe | A53 Gr. B | Typical | .271 | .07 | .07 | .141 |
| 5 | Face Horizontal | PIPE 2.5 | Beam | Pipe | A53 Gr. B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 6 | Tie Back | PIPE 2.5 | Beam | Pipe | A53 Gr. B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 7 | Standoff Bar | PL3/8X3 1/2 | Beam | RECT | A36 Gr.36 | Typical | 1.313 | .015 | 1.34 | .057 |
| 8 | Mount Angle | L4X3X6 | Beam | Single Angle | A36 Gr.36 | Typical | 2.49 | 1.89 | 3.94 | .123 |
| 9 | Standoff Tab | PL3/8X3 1/2 | Beam | RECT | A36 Gr.36 | Typical | 1.313 | .015 | 1.34 | .057 |

Hot Rolled Steel Properties

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

Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-------------------|--------|--------------|-----------|--------------|
| 1 | M51 | N73 | N74 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 2 | M54 | N77 | N78 | | | Face Horizontal | Beam | Pipe | A53 Gr. B | Typical |
| 3 | M87 | N119 | N121 | | | RIGID | None | None | RIGID | Typical |
| 4 | M88 | N120 | N122 | | | RIGID | None | None | RIGID | Typical |
| 5 | MP1A | N124 | N123 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 6 | M38 | N53 | N55 | | | RIGID | None | None | RIGID | Typical |
| 7 | M39 | N55 | N56 | | | Standoff Horiz... | Beam | Pipe | A53 Gr. B | Typical |
| 8 | M40 | N56 | N57 | | 90 | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 9 | M41 | N54 | N59 | | | RIGID | None | None | RIGID | Typical |
| 10 | M42 | N60 | N61 | | 90 | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 11 | M43 | N59 | N60 | | | Standoff Horiz... | Beam | Pipe | A53 Gr. B | Typical |
| 12 | M44 | N65 | N64 | | | Standoff Vertical | Beam | Pipe | A53 Gr. B | Typical |
| 13 | M45 | N66 | N65A | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 14 | M46 | N65A | N67 | | | RIGID | None | None | RIGID | Typical |
| 15 | M47 | N66 | N68 | | | RIGID | None | None | RIGID | Typical |
| 16 | M48 | N70 | N69 | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 17 | M49 | N69 | N71 | | | RIGID | None | None | RIGID | Typical |
| 18 | M50 | N70 | N72 | | | RIGID | None | None | RIGID | Typical |
| 19 | M51A | N73A | N61A | | | RIGID | None | None | RIGID | Typical |
| 20 | M52 | N74A | N62 | | | RIGID | None | None | RIGID | Typical |
| 21 | M53 | N64 | N73A | | 90 | Standoff Tab | Beam | RECT | A36 Gr.36 | Typical |
| 22 | M54A | N65 | N74A | | 90 | Standoff Tab | Beam | RECT | A36 Gr.36 | Typical |
| 23 | M55 | N74A | N65A | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 24 | M56 | N66 | N69 | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 25 | M57 | N51 | N77A | | | RIGID | None | None | RIGID | Typical |
| 26 | M58 | N77A | N78A | | | Standoff Horiz... | Beam | Pipe | A53 Gr. B | Typical |
| 27 | M59 | N78A | N57 | | 90 | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 28 | M60 | N52 | N80 | | | RIGID | None | None | RIGID | Typical |
| 29 | M61 | N81 | N61 | | 90 | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 30 | M62 | N80 | N81 | | | Standoff Horiz... | Beam | Pipe | A53 Gr. B | Typical |
| 31 | M63 | N86 | N85 | | | Standoff Vertical | Beam | Pipe | A53 Gr. B | Typical |
| 32 | M64 | N88 | N87 | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 33 | M65 | N87 | N89 | | | RIGID | None | None | RIGID | Typical |
| 34 | M66 | N88 | N90 | | | RIGID | None | None | RIGID | Typical |
| 35 | M67 | N92 | N91 | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 36 | M68 | N91 | N93 | | | RIGID | None | None | RIGID | Typical |
| 37 | M69 | N92 | N94 | | | RIGID | None | None | RIGID | Typical |
| 38 | M70 | N95 | N83 | | | RIGID | None | None | RIGID | Typical |
| 39 | M71 | N96 | N84 | | | RIGID | None | None | RIGID | Typical |
| 40 | M72 | N85 | N95 | | 90 | Standoff Tab | Beam | RECT | A36 Gr.36 | Typical |
| 41 | M73 | N86 | N96 | | 90 | Standoff Tab | Beam | RECT | A36 Gr.36 | Typical |
| 42 | M74 | N96 | N87 | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 43 | M75 | N88 | N91 | | | Standoff Diago... | Beam | Pipe | A53 Gr. B | Typical |
| 44 | M76 | N93A | N94A | | 180 | Mount Angle | Beam | Single Angle | A36 Gr.36 | Typical |
| 45 | M77 | N95A | N96A | | | RIGID | None | None | RIGID | Typical |
| 46 | M46A | N57A | N58 | | 180 | Mount Angle | Beam | Single Angle | A36 Gr.36 | Typical |
| 47 | M47A | N59A | N60A | | | RIGID | None | None | RIGID | Typical |
| 48 | M48A | N61B | N62A | | | Tie Back | Beam | Pipe | A53 Gr. B | Typical |
| 49 | M49A | N63 | N65B | | | RIGID | None | None | RIGID | Typical |
| 50 | M50A | N64A | N66A | | | RIGID | None | None | RIGID | Typical |
| 51 | MP2A | N68A | N67A | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 52 | M52A | N69A | N71A | | | RIGID | None | None | RIGID | Typical |
| 53 | M53A | N70A | N72A | | | RIGID | None | None | RIGID | Typical |
| 54 | MP3A | N74B | N73B | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 55 | M55A | N75 | N77B | | | RIGID | None | None | RIGID | Typical |
| 56 | M56A | N76 | N78B | | | RIGID | None | None | RIGID | Typical |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
 11:06 AM
 Checked By: _____

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|---------------|--------|-------------|-----------|--------------|
| 57 | MP4A | N80A | N79 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 58 | M58A | N81A | N83A | | | RIGID | None | None | RIGID | Typical |
| 59 | M59A | N82 | N84A | | | RIGID | None | None | RIGID | Typical |
| 60 | MP5A | N86A | N85A | | | Antenna Pipe | Column | Pipe | A53 Gr. B | 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 | M51 | | | | | | Yes | Default | | | None |
| 2 | M54 | | | | | | Yes | | | | None |
| 3 | M87 | | | | | | Yes | ** NA ** | | | None |
| 4 | M88 | | | | | | Yes | ** NA ** | | | None |
| 5 | MP1A | | | | | | Yes | ** NA ** | | | None |
| 6 | M38 | | | | | | Yes | ** NA ** | | | None |
| 7 | M39 | | | | | | Yes | | | | None |
| 8 | M40 | | OOOOOO | | | | Yes | Default | | | None |
| 9 | M41 | | | | | | Yes | ** NA ** | | | None |
| 10 | M42 | | OOOOOO | | | | Yes | Default | | | None |
| 11 | M43 | | | | | | Yes | | | | None |
| 12 | M44 | | | | | | Yes | | | | None |
| 13 | M45 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 14 | M46 | | | | | | Yes | ** NA ** | | | None |
| 15 | M47 | | | | | | Yes | ** NA ** | | | None |
| 16 | M48 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 17 | M49 | | | | | | Yes | ** NA ** | | | None |
| 18 | M50 | | | | | | Yes | ** NA ** | | | None |
| 19 | M51A | | | | | | Yes | ** NA ** | | | None |
| 20 | M52 | | | | | | Yes | ** NA ** | | | None |
| 21 | M53 | | BenPIN | | | | Yes | Default | | | None |
| 22 | M54A | | BenPIN | | | | Yes | Default | | | None |
| 23 | M55 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 24 | M56 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 25 | M57 | | | | | | Yes | ** NA ** | | | None |
| 26 | M58 | | | | | | Yes | | | | None |
| 27 | M59 | | OOOOOO | | | | Yes | Default | | | None |
| 28 | M60 | | | | | | Yes | ** NA ** | | | None |
| 29 | M61 | | OOOOOO | | | | Yes | Default | | | None |
| 30 | M62 | | | | | | Yes | | | | None |
| 31 | M63 | | | | | | Yes | | | | None |
| 32 | M64 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 33 | M65 | | | | | | Yes | ** NA ** | | | None |
| 34 | M66 | | | | | | Yes | ** NA ** | | | None |
| 35 | M67 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 36 | M68 | | | | | | Yes | ** NA ** | | | None |
| 37 | M69 | | | | | | Yes | ** NA ** | | | None |
| 38 | M70 | | | | | | Yes | ** NA ** | | | None |
| 39 | M71 | | | | | | Yes | ** NA ** | | | None |
| 40 | M72 | | BenPIN | | | | Yes | Default | | | None |
| 41 | M73 | | BenPIN | | | | Yes | Default | | | None |
| 42 | M74 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 43 | M75 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 44 | M76 | | | | | | Yes | | | | None |
| 45 | M77 | | | | | | Yes | ** NA ** | | | None |
| 46 | M46A | | | | | | Yes | | | | None |
| 47 | M47A | | | | | | Yes | ** NA ** | | | None |
| 48 | M48A | OOOOXO | | | | | Yes | Default | | | None |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
 11:06 AM
 Checked By: _____

Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 49 | M49A | | | | | | Yes | ** NA ** | | | None |
| 50 | M50A | | | | | | Yes | ** NA ** | | | None |
| 51 | MP2A | | | | | | Yes | ** NA ** | | | None |
| 52 | M52A | | | | | | Yes | ** NA ** | | | None |
| 53 | M53A | | | | | | Yes | ** NA ** | | | None |
| 54 | MP3A | | | | | | Yes | ** NA ** | | | None |
| 55 | M55A | | | | | | Yes | ** NA ** | | | None |
| 56 | M56A | | | | | | Yes | ** NA ** | | | None |
| 57 | MP4A | | | | | | Yes | ** NA ** | | | None |
| 58 | M58A | | | | | | Yes | ** NA ** | | | None |
| 59 | M59A | | | | | | Yes | ** NA ** | | | None |
| 60 | MP5A | | | | | | Yes | ** NA ** | | | None |

Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP5A | Y | -43.55 | 3 |
| 2 | MP5A | My | -.021 | 3 |
| 3 | MP5A | Mz | -.006 | 3 |
| 4 | MP5A | Y | -43.55 | 9 |
| 5 | MP5A | My | -.021 | 9 |
| 6 | MP5A | Mz | -.006 | 9 |
| 7 | MP1A | Y | -13.9 | 6 |
| 8 | MP1A | My | -.007 | 6 |
| 9 | MP1A | Mz | 0 | 6 |
| 10 | MP1A | Y | -13.9 | 42 |
| 11 | MP1A | My | -.007 | 42 |
| 12 | MP1A | Mz | 0 | 42 |
| 13 | MP3A | Y | -23 | 3 |
| 14 | MP3A | My | -.016 | 3 |
| 15 | MP3A | Mz | .014 | 3 |
| 16 | MP3A | Y | -23 | 69 |
| 17 | MP3A | My | -.016 | 69 |
| 18 | MP3A | Mz | .014 | 69 |
| 19 | MP3A | Y | -23 | 3 |
| 20 | MP3A | My | -.007 | 3 |
| 21 | MP3A | Mz | -.02 | 3 |
| 22 | MP3A | Y | -23 | 69 |
| 23 | MP3A | My | -.007 | 69 |
| 24 | MP3A | Mz | -.02 | 69 |
| 25 | MP3A | Y | -84.4 | 30 |
| 26 | MP3A | My | .042 | 30 |
| 27 | MP3A | Mz | -.056 | 30 |
| 28 | MP3A | Y | -70.3 | 30 |
| 29 | MP3A | My | .035 | 30 |
| 30 | MP3A | Mz | .047 | 30 |
| 31 | MP5A | Y | -11.55 | 45 |
| 32 | MP5A | My | -.006 | 45 |
| 33 | MP5A | Mz | -.001 | 45 |
| 34 | MP5A | Y | -11.55 | 51 |
| 35 | MP5A | My | -.006 | 51 |
| 36 | MP5A | Mz | -.001 | 51 |

Member Point Loads (BLC 2 : Antenna Di)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP5A | Y | -35.514 | 3 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 2 | MP5A | My | -.017 | 3 |
| 3 | MP5A | Mz | -.005 | 3 |
| 4 | MP5A | Y | -35.514 | 9 |
| 5 | MP5A | My | -.017 | 9 |
| 6 | MP5A | Mz | -.005 | 9 |
| 7 | MP1A | Y | -42.185 | 6 |
| 8 | MP1A | My | -.021 | 6 |
| 9 | MP1A | Mz | 0 | 6 |
| 10 | MP1A | Y | -42.185 | 42 |
| 11 | MP1A | My | -.021 | 42 |
| 12 | MP1A | Mz | 0 | 42 |
| 13 | MP3A | Y | -82.242 | 3 |
| 14 | MP3A | My | -.056 | 3 |
| 15 | MP3A | Mz | .049 | 3 |
| 16 | MP3A | Y | -82.242 | 69 |
| 17 | MP3A | My | -.056 | 69 |
| 18 | MP3A | Mz | .049 | 69 |
| 19 | MP3A | Y | -82.242 | 3 |
| 20 | MP3A | My | -.024 | 3 |
| 21 | MP3A | Mz | -.07 | 3 |
| 22 | MP3A | Y | -82.242 | 69 |
| 23 | MP3A | My | -.024 | 69 |
| 24 | MP3A | Mz | -.07 | 69 |
| 25 | MP3A | Y | -44.773 | 30 |
| 26 | MP3A | My | .022 | 30 |
| 27 | MP3A | Mz | -.03 | 30 |
| 28 | MP3A | Y | -40.264 | 30 |
| 29 | MP3A | My | .02 | 30 |
| 30 | MP3A | Mz | .027 | 30 |
| 31 | MP5A | Y | -14.888 | 45 |
| 32 | MP5A | My | -.007 | 45 |
| 33 | MP5A | Mz | -.002 | 45 |
| 34 | MP5A | Y | -14.888 | 51 |
| 35 | MP5A | My | -.007 | 51 |
| 36 | MP5A | Mz | -.002 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 0 | 3 |
| 2 | MP5A | Z | -104.761 | 3 |
| 3 | MP5A | Mx | .014 | 3 |
| 4 | MP5A | X | 0 | 9 |
| 5 | MP5A | Z | -104.761 | 9 |
| 6 | MP5A | Mx | .014 | 9 |
| 7 | MP1A | X | 0 | 6 |
| 8 | MP1A | Z | -118.275 | 6 |
| 9 | MP1A | Mx | 0 | 6 |
| 10 | MP1A | X | 0 | 42 |
| 11 | MP1A | Z | -118.275 | 42 |
| 12 | MP1A | Mx | 0 | 42 |
| 13 | MP3A | X | 0 | 3 |
| 14 | MP3A | Z | -225.406 | 3 |
| 15 | MP3A | Mx | -.134 | 3 |
| 16 | MP3A | X | 0 | 69 |
| 17 | MP3A | Z | -225.406 | 69 |
| 18 | MP3A | Mx | -.134 | 69 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 19 | MP3A | X | 0 | 3 |
| 20 | MP3A | Z | -225.406 | 3 |
| 21 | MP3A | Mx | .192 | 3 |
| 22 | MP3A | X | 0 | 69 |
| 23 | MP3A | Z | -225.406 | 69 |
| 24 | MP3A | Mx | .192 | 69 |
| 25 | MP3A | X | 0 | 30 |
| 26 | MP3A | Z | -86.906 | 30 |
| 27 | MP3A | Mx | .058 | 30 |
| 28 | MP3A | X | 0 | 30 |
| 29 | MP3A | Z | -86.906 | 30 |
| 30 | MP3A | Mx | -.058 | 30 |
| 31 | MP5A | X | 0 | 45 |
| 32 | MP5A | Z | -34.562 | 45 |
| 33 | MP5A | Mx | .004 | 45 |
| 34 | MP5A | X | 0 | 51 |
| 35 | MP5A | Z | -34.562 | 51 |
| 36 | MP5A | Mx | .004 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 52.381 | 3 |
| 2 | MP5A | Z | -90.726 | 3 |
| 3 | MP5A | Mx | -.014 | 3 |
| 4 | MP5A | X | 52.381 | 9 |
| 5 | MP5A | Z | -90.726 | 9 |
| 6 | MP5A | Mx | -.014 | 9 |
| 7 | MP1A | X | 54.025 | 6 |
| 8 | MP1A | Z | -93.575 | 6 |
| 9 | MP1A | Mx | -.027 | 6 |
| 10 | MP1A | X | 54.025 | 42 |
| 11 | MP1A | Z | -93.575 | 42 |
| 12 | MP1A | Mx | -.027 | 42 |
| 13 | MP3A | X | 112.703 | 3 |
| 14 | MP3A | Z | -195.208 | 3 |
| 15 | MP3A | Mx | -.192 | 3 |
| 16 | MP3A | X | 112.703 | 69 |
| 17 | MP3A | Z | -195.208 | 69 |
| 18 | MP3A | Mx | -.192 | 69 |
| 19 | MP3A | X | 112.703 | 3 |
| 20 | MP3A | Z | -195.208 | 3 |
| 21 | MP3A | Mx | .134 | 3 |
| 22 | MP3A | X | 112.703 | 69 |
| 23 | MP3A | Z | -195.208 | 69 |
| 24 | MP3A | Mx | .134 | 69 |
| 25 | MP3A | X | 39.851 | 30 |
| 26 | MP3A | Z | -69.024 | 30 |
| 27 | MP3A | Mx | .066 | 30 |
| 28 | MP3A | X | 38.471 | 30 |
| 29 | MP3A | Z | -66.635 | 30 |
| 30 | MP3A | Mx | -.025 | 30 |
| 31 | MP5A | X | 17.281 | 45 |
| 32 | MP5A | Z | -29.932 | 45 |
| 33 | MP5A | Mx | -.004 | 45 |
| 34 | MP5A | X | 17.281 | 51 |
| 35 | MP5A | Z | -29.932 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 36 | MP5A | Mx | -0.04 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 65.805 | 3 |
| 2 | MP5A | Z | -37.992 | 3 |
| 3 | MP5A | Mx | -0.27 | 3 |
| 4 | MP5A | X | 65.805 | 9 |
| 5 | MP5A | Z | -37.992 | 9 |
| 6 | MP5A | Mx | -0.27 | 9 |
| 7 | MP1A | X | 75.865 | 6 |
| 8 | MP1A | Z | -43.8 | 6 |
| 9 | MP1A | Mx | -0.38 | 6 |
| 10 | MP1A | X | 75.865 | 42 |
| 11 | MP1A | Z | -43.8 | 42 |
| 12 | MP1A | Mx | -0.38 | 42 |
| 13 | MP3A | X | 173.144 | 3 |
| 14 | MP3A | Z | -99.965 | 3 |
| 15 | MP3A | Mx | -.177 | 3 |
| 16 | MP3A | X | 173.144 | 69 |
| 17 | MP3A | Z | -99.965 | 69 |
| 18 | MP3A | Mx | -.177 | 69 |
| 19 | MP3A | X | 173.144 | 3 |
| 20 | MP3A | Z | -99.965 | 3 |
| 21 | MP3A | Mx | .035 | 3 |
| 22 | MP3A | X | 173.144 | 69 |
| 23 | MP3A | Z | -99.965 | 69 |
| 24 | MP3A | Mx | .035 | 69 |
| 25 | MP3A | X | 56.548 | 30 |
| 26 | MP3A | Z | -32.648 | 30 |
| 27 | MP3A | Mx | .05 | 30 |
| 28 | MP3A | X | 49.378 | 30 |
| 29 | MP3A | Z | -28.509 | 30 |
| 30 | MP3A | Mx | .006 | 30 |
| 31 | MP5A | X | 23.089 | 45 |
| 32 | MP5A | Z | -13.331 | 45 |
| 33 | MP5A | Mx | -0.09 | 45 |
| 34 | MP5A | X | 23.089 | 51 |
| 35 | MP5A | Z | -13.331 | 51 |
| 36 | MP5A | Mx | -0.09 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 47.208 | 3 |
| 2 | MP5A | Z | 0 | 3 |
| 3 | MP5A | Mx | -0.23 | 3 |
| 4 | MP5A | X | 47.208 | 9 |
| 5 | MP5A | Z | 0 | 9 |
| 6 | MP5A | Mx | -0.23 | 9 |
| 7 | MP1A | X | 77.376 | 6 |
| 8 | MP1A | Z | 0 | 6 |
| 9 | MP1A | Mx | -0.39 | 6 |
| 10 | MP1A | X | 77.376 | 42 |
| 11 | MP1A | Z | 0 | 42 |
| 12 | MP1A | Mx | -0.39 | 42 |
| 13 | MP3A | X | 174.452 | 3 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 14 | MP3A | Z | 0 | 3 |
| 15 | MP3A | Mx | -.118 | 3 |
| 16 | MP3A | X | 174.452 | 69 |
| 17 | MP3A | Z | 0 | 69 |
| 18 | MP3A | Mx | -.118 | 69 |
| 19 | MP3A | X | 174.452 | 3 |
| 20 | MP3A | Z | 0 | 3 |
| 21 | MP3A | Mx | -.05 | 3 |
| 22 | MP3A | X | 174.452 | 69 |
| 23 | MP3A | Z | 0 | 69 |
| 24 | MP3A | Mx | -.05 | 69 |
| 25 | MP3A | X | 58.092 | 30 |
| 26 | MP3A | Z | 0 | 30 |
| 27 | MP3A | Mx | .029 | 30 |
| 28 | MP3A | X | 47.055 | 30 |
| 29 | MP3A | Z | 0 | 30 |
| 30 | MP3A | Mx | .024 | 30 |
| 31 | MP5A | X | 18.76 | 45 |
| 32 | MP5A | Z | 0 | 45 |
| 33 | MP5A | Mx | -.009 | 45 |
| 34 | MP5A | X | 18.76 | 51 |
| 35 | MP5A | Z | 0 | 51 |
| 36 | MP5A | Mx | -.009 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 40.884 | 3 |
| 2 | MP5A | Z | 23.604 | 3 |
| 3 | MP5A | Mx | -.023 | 3 |
| 4 | MP5A | X | 40.884 | 9 |
| 5 | MP5A | Z | 23.604 | 9 |
| 6 | MP5A | Mx | -.023 | 9 |
| 7 | MP1A | X | 75.865 | 6 |
| 8 | MP1A | Z | 43.8 | 6 |
| 9 | MP1A | Mx | -.038 | 6 |
| 10 | MP1A | X | 75.865 | 42 |
| 11 | MP1A | Z | 43.8 | 42 |
| 12 | MP1A | Mx | -.038 | 42 |
| 13 | MP3A | X | 151.08 | 3 |
| 14 | MP3A | Z | 87.226 | 3 |
| 15 | MP3A | Mx | -.05 | 3 |
| 16 | MP3A | X | 151.08 | 69 |
| 17 | MP3A | Z | 87.226 | 69 |
| 18 | MP3A | Mx | -.05 | 69 |
| 19 | MP3A | X | 151.08 | 3 |
| 20 | MP3A | Z | 87.226 | 3 |
| 21 | MP3A | Mx | -.118 | 3 |
| 22 | MP3A | X | 151.08 | 69 |
| 23 | MP3A | Z | 87.226 | 69 |
| 24 | MP3A | Mx | -.118 | 69 |
| 25 | MP3A | X | 56.548 | 30 |
| 26 | MP3A | Z | 32.648 | 30 |
| 27 | MP3A | Mx | .007 | 30 |
| 28 | MP3A | X | 49.378 | 30 |
| 29 | MP3A | Z | 28.509 | 30 |
| 30 | MP3A | Mx | .044 | 30 |

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

| | Member Label | Direction | Magnitude[<u>lb.k-ft</u>] | Location[in.%] |
|----|--------------|-----------|-----------------------------|----------------|
| 31 | MP5A | X | 16.247 | 45 |
| 32 | MP5A | Z | 9.38 | 45 |
| 33 | MP5A | Mx | -0.009 | 45 |
| 34 | MP5A | X | 16.247 | 51 |
| 35 | MP5A | Z | 9.38 | 51 |
| 36 | MP5A | Mx | -0.009 | 51 |

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

| | Member Label | Direction | Magnitude[<u>lb.k-ft</u>] | Location[in.%] |
|----|--------------|-----------|-----------------------------|----------------|
| 1 | MP5A | X | 37.992 | 3 |
| 2 | MP5A | Z | 65.805 | 3 |
| 3 | MP5A | Mx | -0.27 | 3 |
| 4 | MP5A | X | 37.992 | 9 |
| 5 | MP5A | Z | 65.805 | 9 |
| 6 | MP5A | Mx | -0.27 | 9 |
| 7 | MP1A | X | 54.025 | 6 |
| 8 | MP1A | Z | 93.575 | 6 |
| 9 | MP1A | Mx | -0.27 | 6 |
| 10 | MP1A | X | 54.025 | 42 |
| 11 | MP1A | Z | 93.575 | 42 |
| 12 | MP1A | Mx | -0.27 | 42 |
| 13 | MP3A | X | 99.965 | 3 |
| 14 | MP3A | Z | 173.144 | 3 |
| 15 | MP3A | Mx | .035 | 3 |
| 16 | MP3A | X | 99.965 | 69 |
| 17 | MP3A | Z | 173.144 | 69 |
| 18 | MP3A | Mx | .035 | 69 |
| 19 | MP3A | X | 99.965 | 3 |
| 20 | MP3A | Z | 173.144 | 3 |
| 21 | MP3A | Mx | -.177 | 3 |
| 22 | MP3A | X | 99.965 | 69 |
| 23 | MP3A | Z | 173.144 | 69 |
| 24 | MP3A | Mx | -.177 | 69 |
| 25 | MP3A | X | 39.851 | 30 |
| 26 | MP3A | Z | 69.024 | 30 |
| 27 | MP3A | Mx | -0.26 | 30 |
| 28 | MP3A | X | 38.471 | 30 |
| 29 | MP3A | Z | 66.635 | 30 |
| 30 | MP3A | Mx | .064 | 30 |
| 31 | MP5A | X | 13.331 | 45 |
| 32 | MP5A | Z | 23.089 | 45 |
| 33 | MP5A | Mx | -0.009 | 45 |
| 34 | MP5A | X | 13.331 | 51 |
| 35 | MP5A | Z | 23.089 | 51 |
| 36 | MP5A | Mx | -0.009 | 51 |

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

| | Member Label | Direction | Magnitude[<u>lb.k-ft</u>] | Location[in.%] |
|---|--------------|-----------|-----------------------------|----------------|
| 1 | MP5A | X | 0 | 3 |
| 2 | MP5A | Z | 104.761 | 3 |
| 3 | MP5A | Mx | -0.14 | 3 |
| 4 | MP5A | X | 0 | 9 |
| 5 | MP5A | Z | 104.761 | 9 |
| 6 | MP5A | Mx | -0.14 | 9 |
| 7 | MP1A | X | 0 | 6 |
| 8 | MP1A | Z | 118.275 | 6 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 9 | MP1A | Mx | 0 | 6 |
| 10 | MP1A | X | 0 | 42 |
| 11 | MP1A | Z | 118.275 | 42 |
| 12 | MP1A | Mx | 0 | 42 |
| 13 | MP3A | X | 0 | 3 |
| 14 | MP3A | Z | 225.406 | 3 |
| 15 | MP3A | Mx | .134 | 3 |
| 16 | MP3A | X | 0 | 69 |
| 17 | MP3A | Z | 225.406 | 69 |
| 18 | MP3A | Mx | .134 | 69 |
| 19 | MP3A | X | 0 | 3 |
| 20 | MP3A | Z | 225.406 | 3 |
| 21 | MP3A | Mx | -.192 | 3 |
| 22 | MP3A | X | 0 | 69 |
| 23 | MP3A | Z | 225.406 | 69 |
| 24 | MP3A | Mx | -.192 | 69 |
| 25 | MP3A | X | 0 | 30 |
| 26 | MP3A | Z | 86.906 | 30 |
| 27 | MP3A | Mx | -.058 | 30 |
| 28 | MP3A | X | 0 | 30 |
| 29 | MP3A | Z | 86.906 | 30 |
| 30 | MP3A | Mx | .058 | 30 |
| 31 | MP5A | X | 0 | 45 |
| 32 | MP5A | Z | 34.562 | 45 |
| 33 | MP5A | Mx | -.004 | 45 |
| 34 | MP5A | X | 0 | 51 |
| 35 | MP5A | Z | 34.562 | 51 |
| 36 | MP5A | Mx | -.004 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -52.381 | 3 |
| 2 | MP5A | Z | 90.726 | 3 |
| 3 | MP5A | Mx | .014 | 3 |
| 4 | MP5A | X | -52.381 | 9 |
| 5 | MP5A | Z | 90.726 | 9 |
| 6 | MP5A | Mx | .014 | 9 |
| 7 | MP1A | X | -54.025 | 6 |
| 8 | MP1A | Z | 93.575 | 6 |
| 9 | MP1A | Mx | .027 | 6 |
| 10 | MP1A | X | -54.025 | 42 |
| 11 | MP1A | Z | 93.575 | 42 |
| 12 | MP1A | Mx | .027 | 42 |
| 13 | MP3A | X | -112.703 | 3 |
| 14 | MP3A | Z | 195.208 | 3 |
| 15 | MP3A | Mx | .192 | 3 |
| 16 | MP3A | X | -112.703 | 69 |
| 17 | MP3A | Z | 195.208 | 69 |
| 18 | MP3A | Mx | .192 | 69 |
| 19 | MP3A | X | -112.703 | 3 |
| 20 | MP3A | Z | 195.208 | 3 |
| 21 | MP3A | Mx | -.134 | 3 |
| 22 | MP3A | X | -112.703 | 69 |
| 23 | MP3A | Z | 195.208 | 69 |
| 24 | MP3A | Mx | -.134 | 69 |
| 25 | MP3A | X | -39.851 | 30 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|----------------------|----------------|
| 26 | MP3A | Z | 69.024 | 30 |
| 27 | MP3A | Mx | -.066 | 30 |
| 28 | MP3A | X | -38.471 | 30 |
| 29 | MP3A | Z | 66.635 | 30 |
| 30 | MP3A | Mx | .025 | 30 |
| 31 | MP5A | X | -17.281 | 45 |
| 32 | MP5A | Z | 29.932 | 45 |
| 33 | MP5A | Mx | .004 | 45 |
| 34 | MP5A | X | -17.281 | 51 |
| 35 | MP5A | Z | 29.932 | 51 |
| 36 | MP5A | Mx | .004 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|----------------------|----------------|
| 1 | MP5A | X | -65.805 | 3 |
| 2 | MP5A | Z | 37.992 | 3 |
| 3 | MP5A | Mx | .027 | 3 |
| 4 | MP5A | X | -65.805 | 9 |
| 5 | MP5A | Z | 37.992 | 9 |
| 6 | MP5A | Mx | .027 | 9 |
| 7 | MP1A | X | -75.865 | 6 |
| 8 | MP1A | Z | 43.8 | 6 |
| 9 | MP1A | Mx | .038 | 6 |
| 10 | MP1A | X | -75.865 | 42 |
| 11 | MP1A | Z | 43.8 | 42 |
| 12 | MP1A | Mx | .038 | 42 |
| 13 | MP3A | X | -173.144 | 3 |
| 14 | MP3A | Z | 99.965 | 3 |
| 15 | MP3A | Mx | .177 | 3 |
| 16 | MP3A | X | -173.144 | 69 |
| 17 | MP3A | Z | 99.965 | 69 |
| 18 | MP3A | Mx | .177 | 69 |
| 19 | MP3A | X | -173.144 | 3 |
| 20 | MP3A | Z | 99.965 | 3 |
| 21 | MP3A | Mx | -.035 | 3 |
| 22 | MP3A | X | -173.144 | 69 |
| 23 | MP3A | Z | 99.965 | 69 |
| 24 | MP3A | Mx | -.035 | 69 |
| 25 | MP3A | X | -56.548 | 30 |
| 26 | MP3A | Z | 32.648 | 30 |
| 27 | MP3A | Mx | -.05 | 30 |
| 28 | MP3A | X | -49.378 | 30 |
| 29 | MP3A | Z | 28.509 | 30 |
| 30 | MP3A | Mx | -.006 | 30 |
| 31 | MP5A | X | -23.089 | 45 |
| 32 | MP5A | Z | 13.331 | 45 |
| 33 | MP5A | Mx | .009 | 45 |
| 34 | MP5A | X | -23.089 | 51 |
| 35 | MP5A | Z | 13.331 | 51 |
| 36 | MP5A | Mx | .009 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|----------------------|----------------|
| 1 | MP5A | X | -47.208 | 3 |
| 2 | MP5A | Z | 0 | 3 |
| 3 | MP5A | Mx | .023 | 3 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 4 | MP5A | X | -47.208 | 9 |
| 5 | MP5A | Z | 0 | 9 |
| 6 | MP5A | Mx | .023 | 9 |
| 7 | MP1A | X | -77.376 | 6 |
| 8 | MP1A | Z | 0 | 6 |
| 9 | MP1A | Mx | .039 | 6 |
| 10 | MP1A | X | -77.376 | 42 |
| 11 | MP1A | Z | 0 | 42 |
| 12 | MP1A | Mx | .039 | 42 |
| 13 | MP3A | X | -174.452 | 3 |
| 14 | MP3A | Z | 0 | 3 |
| 15 | MP3A | Mx | .118 | 3 |
| 16 | MP3A | X | -174.452 | 69 |
| 17 | MP3A | Z | 0 | 69 |
| 18 | MP3A | Mx | .118 | 69 |
| 19 | MP3A | X | -174.452 | 3 |
| 20 | MP3A | Z | 0 | 3 |
| 21 | MP3A | Mx | .05 | 3 |
| 22 | MP3A | X | -174.452 | 69 |
| 23 | MP3A | Z | 0 | 69 |
| 24 | MP3A | Mx | .05 | 69 |
| 25 | MP3A | X | -58.092 | 30 |
| 26 | MP3A | Z | 0 | 30 |
| 27 | MP3A | Mx | -.029 | 30 |
| 28 | MP3A | X | -47.055 | 30 |
| 29 | MP3A | Z | 0 | 30 |
| 30 | MP3A | Mx | -.024 | 30 |
| 31 | MP5A | X | -18.76 | 45 |
| 32 | MP5A | Z | 0 | 45 |
| 33 | MP5A | Mx | .009 | 45 |
| 34 | MP5A | X | -18.76 | 51 |
| 35 | MP5A | Z | 0 | 51 |
| 36 | MP5A | Mx | .009 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -40.884 | 3 |
| 2 | MP5A | Z | -23.604 | 3 |
| 3 | MP5A | Mx | .023 | 3 |
| 4 | MP5A | X | -40.884 | 9 |
| 5 | MP5A | Z | -23.604 | 9 |
| 6 | MP5A | Mx | .023 | 9 |
| 7 | MP1A | X | -75.865 | 6 |
| 8 | MP1A | Z | -43.8 | 6 |
| 9 | MP1A | Mx | .038 | 6 |
| 10 | MP1A | X | -75.865 | 42 |
| 11 | MP1A | Z | -43.8 | 42 |
| 12 | MP1A | Mx | .038 | 42 |
| 13 | MP3A | X | -151.08 | 3 |
| 14 | MP3A | Z | -87.226 | 3 |
| 15 | MP3A | Mx | .05 | 3 |
| 16 | MP3A | X | -151.08 | 69 |
| 17 | MP3A | Z | -87.226 | 69 |
| 18 | MP3A | Mx | .05 | 69 |
| 19 | MP3A | X | -151.08 | 3 |
| 20 | MP3A | Z | -87.226 | 3 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|----------------------|----------------|
| 21 | MP3A | Mx | .118 | 3 |
| 22 | MP3A | X | -151.08 | 69 |
| 23 | MP3A | Z | -87.226 | 69 |
| 24 | MP3A | Mx | .118 | 69 |
| 25 | MP3A | X | -56.548 | 30 |
| 26 | MP3A | Z | -32.648 | 30 |
| 27 | MP3A | Mx | -.007 | 30 |
| 28 | MP3A | X | -49.378 | 30 |
| 29 | MP3A | Z | -28.509 | 30 |
| 30 | MP3A | Mx | -.044 | 30 |
| 31 | MP5A | X | -16.247 | 45 |
| 32 | MP5A | Z | -9.38 | 45 |
| 33 | MP5A | Mx | .009 | 45 |
| 34 | MP5A | X | -16.247 | 51 |
| 35 | MP5A | Z | -9.38 | 51 |
| 36 | MP5A | Mx | .009 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|----------------------|----------------|
| 1 | MP5A | X | -37.992 | 3 |
| 2 | MP5A | Z | -65.805 | 3 |
| 3 | MP5A | Mx | .027 | 3 |
| 4 | MP5A | X | -37.992 | 9 |
| 5 | MP5A | Z | -65.805 | 9 |
| 6 | MP5A | Mx | .027 | 9 |
| 7 | MP1A | X | -54.025 | 6 |
| 8 | MP1A | Z | -93.575 | 6 |
| 9 | MP1A | Mx | .027 | 6 |
| 10 | MP1A | X | -54.025 | 42 |
| 11 | MP1A | Z | -93.575 | 42 |
| 12 | MP1A | Mx | .027 | 42 |
| 13 | MP3A | X | -99.965 | 3 |
| 14 | MP3A | Z | -173.144 | 3 |
| 15 | MP3A | Mx | -.035 | 3 |
| 16 | MP3A | X | -99.965 | 69 |
| 17 | MP3A | Z | -173.144 | 69 |
| 18 | MP3A | Mx | -.035 | 69 |
| 19 | MP3A | X | -99.965 | 3 |
| 20 | MP3A | Z | -173.144 | 3 |
| 21 | MP3A | Mx | .177 | 3 |
| 22 | MP3A | X | -99.965 | 69 |
| 23 | MP3A | Z | -173.144 | 69 |
| 24 | MP3A | Mx | .177 | 69 |
| 25 | MP3A | X | -39.851 | 30 |
| 26 | MP3A | Z | -69.024 | 30 |
| 27 | MP3A | Mx | .026 | 30 |
| 28 | MP3A | X | -38.471 | 30 |
| 29 | MP3A | Z | -66.635 | 30 |
| 30 | MP3A | Mx | -.064 | 30 |
| 31 | MP5A | X | -13.331 | 45 |
| 32 | MP5A | Z | -23.089 | 45 |
| 33 | MP5A | Mx | .009 | 45 |
| 34 | MP5A | X | -13.331 | 51 |
| 35 | MP5A | Z | -23.089 | 51 |
| 36 | MP5A | Mx | .009 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 0 | 3 |
| 2 | MP5A | Z | -18.676 | 3 |
| 3 | MP5A | Mx | .002 | 3 |
| 4 | MP5A | X | 0 | 9 |
| 5 | MP5A | Z | -18.676 | 9 |
| 6 | MP5A | Mx | .002 | 9 |
| 7 | MP1A | X | 0 | 6 |
| 8 | MP1A | Z | -20.956 | 6 |
| 9 | MP1A | Mx | 0 | 6 |
| 10 | MP1A | X | 0 | 42 |
| 11 | MP1A | Z | -20.956 | 42 |
| 12 | MP1A | Mx | 0 | 42 |
| 13 | MP3A | X | 0 | 3 |
| 14 | MP3A | Z | -38.731 | 3 |
| 15 | MP3A | Mx | -.023 | 3 |
| 16 | MP3A | X | 0 | 69 |
| 17 | MP3A | Z | -38.731 | 69 |
| 18 | MP3A | Mx | -.023 | 69 |
| 19 | MP3A | X | 0 | 3 |
| 20 | MP3A | Z | -38.731 | 3 |
| 21 | MP3A | Mx | .033 | 3 |
| 22 | MP3A | X | 0 | 69 |
| 23 | MP3A | Z | -38.731 | 69 |
| 24 | MP3A | Mx | .033 | 69 |
| 25 | MP3A | X | 0 | 30 |
| 26 | MP3A | Z | -16.367 | 30 |
| 27 | MP3A | Mx | .011 | 30 |
| 28 | MP3A | X | 0 | 30 |
| 29 | MP3A | Z | -16.367 | 30 |
| 30 | MP3A | Mx | -.011 | 30 |
| 31 | MP5A | X | 0 | 45 |
| 32 | MP5A | Z | -6.644 | 45 |
| 33 | MP5A | Mx | .00086 | 45 |
| 34 | MP5A | X | 0 | 51 |
| 35 | MP5A | Z | -6.644 | 51 |
| 36 | MP5A | Mx | .00086 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 9.338 | 3 |
| 2 | MP5A | Z | -16.174 | 3 |
| 3 | MP5A | Mx | -.002 | 3 |
| 4 | MP5A | X | 9.338 | 9 |
| 5 | MP5A | Z | -16.174 | 9 |
| 6 | MP5A | Mx | -.002 | 9 |
| 7 | MP1A | X | 9.636 | 6 |
| 8 | MP1A | Z | -16.69 | 6 |
| 9 | MP1A | Mx | -.005 | 6 |
| 10 | MP1A | X | 9.636 | 42 |
| 11 | MP1A | Z | -16.69 | 42 |
| 12 | MP1A | Mx | -.005 | 42 |
| 13 | MP3A | X | 19.366 | 3 |
| 14 | MP3A | Z | -33.542 | 3 |
| 15 | MP3A | Mx | -.033 | 3 |
| 16 | MP3A | X | 19.366 | 69 |
| 17 | MP3A | Z | -33.542 | 69 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 18 | MP3A | Mx | -.033 | 69 |
| 19 | MP3A | X | 19.366 | 3 |
| 20 | MP3A | Z | -33.542 | 3 |
| 21 | MP3A | Mx | .023 | 3 |
| 22 | MP3A | X | 19.366 | 69 |
| 23 | MP3A | Z | -33.542 | 69 |
| 24 | MP3A | Mx | .023 | 69 |
| 25 | MP3A | X | 7.561 | 30 |
| 26 | MP3A | Z | -13.096 | 30 |
| 27 | MP3A | Mx | .013 | 30 |
| 28 | MP3A | X | 7.324 | 30 |
| 29 | MP3A | Z | -12.686 | 30 |
| 30 | MP3A | Mx | -.005 | 30 |
| 31 | MP5A | X | 3.322 | 45 |
| 32 | MP5A | Z | -5.754 | 45 |
| 33 | MP5A | Mx | -.00086 | 45 |
| 34 | MP5A | X | 3.322 | 51 |
| 35 | MP5A | Z | -5.754 | 51 |
| 36 | MP5A | Mx | -.00086 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 11.992 | 3 |
| 2 | MP5A | Z | -6.924 | 3 |
| 3 | MP5A | Mx | -.005 | 3 |
| 4 | MP5A | X | 11.992 | 9 |
| 5 | MP5A | Z | -6.924 | 9 |
| 6 | MP5A | Mx | -.005 | 9 |
| 7 | MP1A | X | 13.773 | 6 |
| 8 | MP1A | Z | -7.952 | 6 |
| 9 | MP1A | Mx | -.007 | 6 |
| 10 | MP1A | X | 13.773 | 42 |
| 11 | MP1A | Z | -7.952 | 42 |
| 12 | MP1A | Mx | -.007 | 42 |
| 13 | MP3A | X | 29.947 | 3 |
| 14 | MP3A | Z | -17.29 | 3 |
| 15 | MP3A | Mx | -.031 | 3 |
| 16 | MP3A | X | 29.947 | 69 |
| 17 | MP3A | Z | -17.29 | 69 |
| 18 | MP3A | Mx | -.031 | 69 |
| 19 | MP3A | X | 29.947 | 3 |
| 20 | MP3A | Z | -17.29 | 3 |
| 21 | MP3A | Mx | .006 | 3 |
| 22 | MP3A | X | 29.947 | 69 |
| 23 | MP3A | Z | -17.29 | 69 |
| 24 | MP3A | Mx | .006 | 69 |
| 25 | MP3A | X | 10.938 | 30 |
| 26 | MP3A | Z | -6.315 | 30 |
| 27 | MP3A | Mx | .01 | 30 |
| 28 | MP3A | X | 9.708 | 30 |
| 29 | MP3A | Z | -5.605 | 30 |
| 30 | MP3A | Mx | .001 | 30 |
| 31 | MP5A | X | 4.571 | 45 |
| 32 | MP5A | Z | -2.639 | 45 |
| 33 | MP5A | Mx | -.002 | 45 |
| 34 | MP5A | X | 4.571 | 51 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 35 | MP5A | Z | -2.639 | 51 |
| 36 | MP5A | Mx | -0.02 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 9.018 | 3 |
| 2 | MP5A | Z | 0 | 3 |
| 3 | MP5A | Mx | -0.004 | 3 |
| 4 | MP5A | X | 9.018 | 9 |
| 5 | MP5A | Z | 0 | 9 |
| 6 | MP5A | Mx | -0.004 | 9 |
| 7 | MP1A | X | 14.219 | 6 |
| 8 | MP1A | Z | 0 | 6 |
| 9 | MP1A | Mx | -0.007 | 6 |
| 10 | MP1A | X | 14.219 | 42 |
| 11 | MP1A | Z | 0 | 42 |
| 12 | MP1A | Mx | -0.007 | 42 |
| 13 | MP3A | X | 30.427 | 3 |
| 14 | MP3A | Z | 0 | 3 |
| 15 | MP3A | Mx | -0.021 | 3 |
| 16 | MP3A | X | 30.427 | 69 |
| 17 | MP3A | Z | 0 | 69 |
| 18 | MP3A | Mx | -0.021 | 69 |
| 19 | MP3A | X | 30.427 | 3 |
| 20 | MP3A | Z | 0 | 3 |
| 21 | MP3A | Mx | -0.009 | 3 |
| 22 | MP3A | X | 30.427 | 69 |
| 23 | MP3A | Z | 0 | 69 |
| 24 | MP3A | Mx | -0.009 | 69 |
| 25 | MP3A | X | 11.384 | 30 |
| 26 | MP3A | Z | 0 | 30 |
| 27 | MP3A | Mx | .006 | 30 |
| 28 | MP3A | X | 9.49 | 30 |
| 29 | MP3A | Z | 0 | 30 |
| 30 | MP3A | Mx | .005 | 30 |
| 31 | MP5A | X | 3.911 | 45 |
| 32 | MP5A | Z | 0 | 45 |
| 33 | MP5A | Mx | -0.002 | 45 |
| 34 | MP5A | X | 3.911 | 51 |
| 35 | MP5A | Z | 0 | 51 |
| 36 | MP5A | Mx | -0.02 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 7.81 | 3 |
| 2 | MP5A | Z | 4.509 | 3 |
| 3 | MP5A | Mx | -0.004 | 3 |
| 4 | MP5A | X | 7.81 | 9 |
| 5 | MP5A | Z | 4.509 | 9 |
| 6 | MP5A | Mx | -0.004 | 9 |
| 7 | MP1A | X | 13.773 | 6 |
| 8 | MP1A | Z | 7.952 | 6 |
| 9 | MP1A | Mx | -0.007 | 6 |
| 10 | MP1A | X | 13.773 | 42 |
| 11 | MP1A | Z | 7.952 | 42 |
| 12 | MP1A | Mx | -0.007 | 42 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
 11:06 AM
 Checked By: _____

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

| | Member Label | Direction | Magnitude[b,k-ft] | Location[in,%] |
|----|--------------|-----------|---------------------|----------------|
| 13 | MP3A | X | 26.351 | 3 |
| 14 | MP3A | Z | 15.214 | 3 |
| 15 | MP3A | Mx | -.009 | 3 |
| 16 | MP3A | X | 26.351 | 69 |
| 17 | MP3A | Z | 15.214 | 69 |
| 18 | MP3A | Mx | -.009 | 69 |
| 19 | MP3A | X | 26.351 | 3 |
| 20 | MP3A | Z | 15.214 | 3 |
| 21 | MP3A | Mx | -.021 | 3 |
| 22 | MP3A | X | 26.351 | 69 |
| 23 | MP3A | Z | 15.214 | 69 |
| 24 | MP3A | Mx | -.021 | 69 |
| 25 | MP3A | X | 10.938 | 30 |
| 26 | MP3A | Z | 6.315 | 30 |
| 27 | MP3A | Mx | .001 | 30 |
| 28 | MP3A | X | 9.708 | 30 |
| 29 | MP3A | Z | 5.605 | 30 |
| 30 | MP3A | Mx | .009 | 30 |
| 31 | MP5A | X | 3.387 | 45 |
| 32 | MP5A | Z | 1.956 | 45 |
| 33 | MP5A | Mx | -.002 | 45 |
| 34 | MP5A | X | 3.387 | 51 |
| 35 | MP5A | Z | 1.956 | 51 |
| 36 | MP5A | Mx | -.002 | 51 |

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

| | Member Label | Direction | Magnitude[b,k-ft] | Location[in,%] |
|----|--------------|-----------|---------------------|----------------|
| 1 | MP5A | X | 6.924 | 3 |
| 2 | MP5A | Z | 11.992 | 3 |
| 3 | MP5A | Mx | -.005 | 3 |
| 4 | MP5A | X | 6.924 | 9 |
| 5 | MP5A | Z | 11.992 | 9 |
| 6 | MP5A | Mx | -.005 | 9 |
| 7 | MP1A | X | 9.636 | 6 |
| 8 | MP1A | Z | 16.69 | 6 |
| 9 | MP1A | Mx | -.005 | 6 |
| 10 | MP1A | X | 9.636 | 42 |
| 11 | MP1A | Z | 16.69 | 42 |
| 12 | MP1A | Mx | -.005 | 42 |
| 13 | MP3A | X | 17.29 | 3 |
| 14 | MP3A | Z | 29.947 | 3 |
| 15 | MP3A | Mx | .006 | 3 |
| 16 | MP3A | X | 17.29 | 69 |
| 17 | MP3A | Z | 29.947 | 69 |
| 18 | MP3A | Mx | .006 | 69 |
| 19 | MP3A | X | 17.29 | 3 |
| 20 | MP3A | Z | 29.947 | 3 |
| 21 | MP3A | Mx | -.031 | 3 |
| 22 | MP3A | X | 17.29 | 69 |
| 23 | MP3A | Z | 29.947 | 69 |
| 24 | MP3A | Mx | -.031 | 69 |
| 25 | MP3A | X | 7.561 | 30 |
| 26 | MP3A | Z | 13.096 | 30 |
| 27 | MP3A | Mx | -.005 | 30 |
| 28 | MP3A | X | 7.324 | 30 |
| 29 | MP3A | Z | 12.686 | 30 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 30 | MP3A | Mx | .012 | 30 |
| 31 | MP5A | X | 2.639 | 45 |
| 32 | MP5A | Z | 4.571 | 45 |
| 33 | MP5A | Mx | -.002 | 45 |
| 34 | MP5A | X | 2.639 | 51 |
| 35 | MP5A | Z | 4.571 | 51 |
| 36 | MP5A | Mx | -.002 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 0 | 3 |
| 2 | MP5A | Z | 18.676 | 3 |
| 3 | MP5A | Mx | -.002 | 3 |
| 4 | MP5A | X | 0 | 9 |
| 5 | MP5A | Z | 18.676 | 9 |
| 6 | MP5A | Mx | -.002 | 9 |
| 7 | MP1A | X | 0 | 6 |
| 8 | MP1A | Z | 20.956 | 6 |
| 9 | MP1A | Mx | 0 | 6 |
| 10 | MP1A | X | 0 | 42 |
| 11 | MP1A | Z | 20.956 | 42 |
| 12 | MP1A | Mx | 0 | 42 |
| 13 | MP3A | X | 0 | 3 |
| 14 | MP3A | Z | 38.731 | 3 |
| 15 | MP3A | Mx | .023 | 3 |
| 16 | MP3A | X | 0 | 69 |
| 17 | MP3A | Z | 38.731 | 69 |
| 18 | MP3A | Mx | .023 | 69 |
| 19 | MP3A | X | 0 | 3 |
| 20 | MP3A | Z | 38.731 | 3 |
| 21 | MP3A | Mx | -.033 | 3 |
| 22 | MP3A | X | 0 | 69 |
| 23 | MP3A | Z | 38.731 | 69 |
| 24 | MP3A | Mx | -.033 | 69 |
| 25 | MP3A | X | 0 | 30 |
| 26 | MP3A | Z | 16.367 | 30 |
| 27 | MP3A | Mx | -.011 | 30 |
| 28 | MP3A | X | 0 | 30 |
| 29 | MP3A | Z | 16.367 | 30 |
| 30 | MP3A | Mx | .011 | 30 |
| 31 | MP5A | X | 0 | 45 |
| 32 | MP5A | Z | 6.644 | 45 |
| 33 | MP5A | Mx | -.00086 | 45 |
| 34 | MP5A | X | 0 | 51 |
| 35 | MP5A | Z | 6.644 | 51 |
| 36 | MP5A | Mx | -.00086 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -9.338 | 3 |
| 2 | MP5A | Z | 16.174 | 3 |
| 3 | MP5A | Mx | .002 | 3 |
| 4 | MP5A | X | -9.338 | 9 |
| 5 | MP5A | Z | 16.174 | 9 |
| 6 | MP5A | Mx | .002 | 9 |
| 7 | MP1A | X | -9.636 | 6 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 8 | MP1A | Z | 16.69 | 6 |
| 9 | MP1A | Mx | .005 | 6 |
| 10 | MP1A | X | -9.636 | 42 |
| 11 | MP1A | Z | 16.69 | 42 |
| 12 | MP1A | Mx | .005 | 42 |
| 13 | MP3A | X | -19.366 | 3 |
| 14 | MP3A | Z | 33.542 | 3 |
| 15 | MP3A | Mx | .033 | 3 |
| 16 | MP3A | X | -19.366 | 69 |
| 17 | MP3A | Z | 33.542 | 69 |
| 18 | MP3A | Mx | .033 | 69 |
| 19 | MP3A | X | -19.366 | 3 |
| 20 | MP3A | Z | 33.542 | 3 |
| 21 | MP3A | Mx | -.023 | 3 |
| 22 | MP3A | X | -19.366 | 69 |
| 23 | MP3A | Z | 33.542 | 69 |
| 24 | MP3A | Mx | -.023 | 69 |
| 25 | MP3A | X | -7.561 | 30 |
| 26 | MP3A | Z | 13.096 | 30 |
| 27 | MP3A | Mx | -.013 | 30 |
| 28 | MP3A | X | -7.324 | 30 |
| 29 | MP3A | Z | 12.686 | 30 |
| 30 | MP3A | Mx | .005 | 30 |
| 31 | MP5A | X | -3.322 | 45 |
| 32 | MP5A | Z | 5.754 | 45 |
| 33 | MP5A | Mx | .00086 | 45 |
| 34 | MP5A | X | -3.322 | 51 |
| 35 | MP5A | Z | 5.754 | 51 |
| 36 | MP5A | Mx | .00086 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -11.992 | 3 |
| 2 | MP5A | Z | 6.924 | 3 |
| 3 | MP5A | Mx | .005 | 3 |
| 4 | MP5A | X | -11.992 | 9 |
| 5 | MP5A | Z | 6.924 | 9 |
| 6 | MP5A | Mx | .005 | 9 |
| 7 | MP1A | X | -13.773 | 6 |
| 8 | MP1A | Z | 7.952 | 6 |
| 9 | MP1A | Mx | .007 | 6 |
| 10 | MP1A | X | -13.773 | 42 |
| 11 | MP1A | Z | 7.952 | 42 |
| 12 | MP1A | Mx | .007 | 42 |
| 13 | MP3A | X | -29.947 | 3 |
| 14 | MP3A | Z | 17.29 | 3 |
| 15 | MP3A | Mx | .031 | 3 |
| 16 | MP3A | X | -29.947 | 69 |
| 17 | MP3A | Z | 17.29 | 69 |
| 18 | MP3A | Mx | .031 | 69 |
| 19 | MP3A | X | -29.947 | 3 |
| 20 | MP3A | Z | 17.29 | 3 |
| 21 | MP3A | Mx | -.006 | 3 |
| 22 | MP3A | X | -29.947 | 69 |
| 23 | MP3A | Z | 17.29 | 69 |
| 24 | MP3A | Mx | -.006 | 69 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
 11:06 AM
 Checked By: _____

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP3A | X | -10.938 | 30 |
| 26 | MP3A | Z | 6.315 | 30 |
| 27 | MP3A | Mx | -.01 | 30 |
| 28 | MP3A | X | -9.708 | 30 |
| 29 | MP3A | Z | 5.605 | 30 |
| 30 | MP3A | Mx | -.001 | 30 |
| 31 | MP5A | X | -4.571 | 45 |
| 32 | MP5A | Z | 2.639 | 45 |
| 33 | MP5A | Mx | .002 | 45 |
| 34 | MP5A | X | -4.571 | 51 |
| 35 | MP5A | Z | 2.639 | 51 |
| 36 | MP5A | Mx | .002 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -9.018 | 3 |
| 2 | MP5A | Z | 0 | 3 |
| 3 | MP5A | Mx | .004 | 3 |
| 4 | MP5A | X | -9.018 | 9 |
| 5 | MP5A | Z | 0 | 9 |
| 6 | MP5A | Mx | .004 | 9 |
| 7 | MP1A | X | -14.219 | 6 |
| 8 | MP1A | Z | 0 | 6 |
| 9 | MP1A | Mx | .007 | 6 |
| 10 | MP1A | X | -14.219 | 42 |
| 11 | MP1A | Z | 0 | 42 |
| 12 | MP1A | Mx | .007 | 42 |
| 13 | MP3A | X | -30.427 | 3 |
| 14 | MP3A | Z | 0 | 3 |
| 15 | MP3A | Mx | .021 | 3 |
| 16 | MP3A | X | -30.427 | 69 |
| 17 | MP3A | Z | 0 | 69 |
| 18 | MP3A | Mx | .021 | 69 |
| 19 | MP3A | X | -30.427 | 3 |
| 20 | MP3A | Z | 0 | 3 |
| 21 | MP3A | Mx | .009 | 3 |
| 22 | MP3A | X | -30.427 | 69 |
| 23 | MP3A | Z | 0 | 69 |
| 24 | MP3A | Mx | .009 | 69 |
| 25 | MP3A | X | -11.384 | 30 |
| 26 | MP3A | Z | 0 | 30 |
| 27 | MP3A | Mx | -.006 | 30 |
| 28 | MP3A | X | -9.49 | 30 |
| 29 | MP3A | Z | 0 | 30 |
| 30 | MP3A | Mx | -.005 | 30 |
| 31 | MP5A | X | -3.911 | 45 |
| 32 | MP5A | Z | 0 | 45 |
| 33 | MP5A | Mx | .002 | 45 |
| 34 | MP5A | X | -3.911 | 51 |
| 35 | MP5A | Z | 0 | 51 |
| 36 | MP5A | Mx | .002 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -7.81 | 3 |
| 2 | MP5A | Z | -4.509 | 3 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 3 | MP5A | Mx | .004 | 3 |
| 4 | MP5A | X | -7.81 | 9 |
| 5 | MP5A | Z | -4.509 | 9 |
| 6 | MP5A | Mx | .004 | 9 |
| 7 | MP1A | X | -13.773 | 6 |
| 8 | MP1A | Z | -7.952 | 6 |
| 9 | MP1A | Mx | .007 | 6 |
| 10 | MP1A | X | -13.773 | 42 |
| 11 | MP1A | Z | -7.952 | 42 |
| 12 | MP1A | Mx | .007 | 42 |
| 13 | MP3A | X | -26.351 | 3 |
| 14 | MP3A | Z | -15.214 | 3 |
| 15 | MP3A | Mx | .009 | 3 |
| 16 | MP3A | X | -26.351 | 69 |
| 17 | MP3A | Z | -15.214 | 69 |
| 18 | MP3A | Mx | .009 | 69 |
| 19 | MP3A | X | -26.351 | 3 |
| 20 | MP3A | Z | -15.214 | 3 |
| 21 | MP3A | Mx | .021 | 3 |
| 22 | MP3A | X | -26.351 | 69 |
| 23 | MP3A | Z | -15.214 | 69 |
| 24 | MP3A | Mx | .021 | 69 |
| 25 | MP3A | X | -10.938 | 30 |
| 26 | MP3A | Z | -6.315 | 30 |
| 27 | MP3A | Mx | -.001 | 30 |
| 28 | MP3A | X | -9.708 | 30 |
| 29 | MP3A | Z | -5.605 | 30 |
| 30 | MP3A | Mx | -.009 | 30 |
| 31 | MP5A | X | -3.387 | 45 |
| 32 | MP5A | Z | -1.956 | 45 |
| 33 | MP5A | Mx | .002 | 45 |
| 34 | MP5A | X | -3.387 | 51 |
| 35 | MP5A | Z | -1.956 | 51 |
| 36 | MP5A | Mx | .002 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -6.924 | 3 |
| 2 | MP5A | Z | -11.992 | 3 |
| 3 | MP5A | Mx | .005 | 3 |
| 4 | MP5A | X | -6.924 | 9 |
| 5 | MP5A | Z | -11.992 | 9 |
| 6 | MP5A | Mx | .005 | 9 |
| 7 | MP1A | X | -9.636 | 6 |
| 8 | MP1A | Z | -16.69 | 6 |
| 9 | MP1A | Mx | .005 | 6 |
| 10 | MP1A | X | -9.636 | 42 |
| 11 | MP1A | Z | -16.69 | 42 |
| 12 | MP1A | Mx | .005 | 42 |
| 13 | MP3A | X | -17.29 | 3 |
| 14 | MP3A | Z | -29.947 | 3 |
| 15 | MP3A | Mx | -.006 | 3 |
| 16 | MP3A | X | -17.29 | 69 |
| 17 | MP3A | Z | -29.947 | 69 |
| 18 | MP3A | Mx | -.006 | 69 |
| 19 | MP3A | X | -17.29 | 3 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 20 | MP3A | Z | -29.947 | 3 |
| 21 | MP3A | Mx | .031 | 3 |
| 22 | MP3A | X | -17.29 | 69 |
| 23 | MP3A | Z | -29.947 | 69 |
| 24 | MP3A | Mx | .031 | 69 |
| 25 | MP3A | X | -7.561 | 30 |
| 26 | MP3A | Z | -13.096 | 30 |
| 27 | MP3A | Mx | .005 | 30 |
| 28 | MP3A | X | -7.324 | 30 |
| 29 | MP3A | Z | -12.686 | 30 |
| 30 | MP3A | Mx | -.012 | 30 |
| 31 | MP5A | X | -2.639 | 45 |
| 32 | MP5A | Z | -4.571 | 45 |
| 33 | MP5A | Mx | .002 | 45 |
| 34 | MP5A | X | -2.639 | 51 |
| 35 | MP5A | Z | -4.571 | 51 |
| 36 | MP5A | Mx | .002 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 0 | 3 |
| 2 | MP5A | Z | -5.939 | 3 |
| 3 | MP5A | Mx | .000769 | 3 |
| 4 | MP5A | X | 0 | 9 |
| 5 | MP5A | Z | -5.939 | 9 |
| 6 | MP5A | Mx | .000769 | 9 |
| 7 | MP1A | X | 0 | 6 |
| 8 | MP1A | Z | -6.705 | 6 |
| 9 | MP1A | Mx | 0 | 6 |
| 10 | MP1A | X | 0 | 42 |
| 11 | MP1A | Z | -6.705 | 42 |
| 12 | MP1A | Mx | 0 | 42 |
| 13 | MP3A | X | 0 | 3 |
| 14 | MP3A | Z | -12.778 | 3 |
| 15 | MP3A | Mx | -.008 | 3 |
| 16 | MP3A | X | 0 | 69 |
| 17 | MP3A | Z | -12.778 | 69 |
| 18 | MP3A | Mx | -.008 | 69 |
| 19 | MP3A | X | 0 | 3 |
| 20 | MP3A | Z | -12.778 | 3 |
| 21 | MP3A | Mx | .011 | 3 |
| 22 | MP3A | X | 0 | 69 |
| 23 | MP3A | Z | -12.778 | 69 |
| 24 | MP3A | Mx | .011 | 69 |
| 25 | MP3A | X | 0 | 30 |
| 26 | MP3A | Z | -4.927 | 30 |
| 27 | MP3A | Mx | .003 | 30 |
| 28 | MP3A | X | 0 | 30 |
| 29 | MP3A | Z | -4.927 | 30 |
| 30 | MP3A | Mx | -.003 | 30 |
| 31 | MP5A | X | 0 | 45 |
| 32 | MP5A | Z | -1.959 | 45 |
| 33 | MP5A | Mx | .000254 | 45 |
| 34 | MP5A | X | 0 | 51 |
| 35 | MP5A | Z | -1.959 | 51 |
| 36 | MP5A | Mx | .000254 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 2.969 | 3 |
| 2 | MP5A | Z | -5.143 | 3 |
| 3 | MP5A | Mx | -.000768 | 3 |
| 4 | MP5A | X | 2.969 | 9 |
| 5 | MP5A | Z | -5.143 | 9 |
| 6 | MP5A | Mx | -.000768 | 9 |
| 7 | MP1A | X | 3.063 | 6 |
| 8 | MP1A | Z | -5.305 | 6 |
| 9 | MP1A | Mx | -.002 | 6 |
| 10 | MP1A | X | 3.063 | 42 |
| 11 | MP1A | Z | -5.305 | 42 |
| 12 | MP1A | Mx | -.002 | 42 |
| 13 | MP3A | X | 6.389 | 3 |
| 14 | MP3A | Z | -11.066 | 3 |
| 15 | MP3A | Mx | -.011 | 3 |
| 16 | MP3A | X | 6.389 | 69 |
| 17 | MP3A | Z | -11.066 | 69 |
| 18 | MP3A | Mx | -.011 | 69 |
| 19 | MP3A | X | 6.389 | 3 |
| 20 | MP3A | Z | -11.066 | 3 |
| 21 | MP3A | Mx | .008 | 3 |
| 22 | MP3A | X | 6.389 | 69 |
| 23 | MP3A | Z | -11.066 | 69 |
| 24 | MP3A | Mx | .008 | 69 |
| 25 | MP3A | X | 2.259 | 30 |
| 26 | MP3A | Z | -3.913 | 30 |
| 27 | MP3A | Mx | .004 | 30 |
| 28 | MP3A | X | 2.181 | 30 |
| 29 | MP3A | Z | -3.777 | 30 |
| 30 | MP3A | Mx | -.001 | 30 |
| 31 | MP5A | X | .98 | 45 |
| 32 | MP5A | Z | -1.697 | 45 |
| 33 | MP5A | Mx | -.000254 | 45 |
| 34 | MP5A | X | .98 | 51 |
| 35 | MP5A | Z | -1.697 | 51 |
| 36 | MP5A | Mx | -.000254 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 3.73 | 3 |
| 2 | MP5A | Z | -2.154 | 3 |
| 3 | MP5A | Mx | -.002 | 3 |
| 4 | MP5A | X | 3.73 | 9 |
| 5 | MP5A | Z | -2.154 | 9 |
| 6 | MP5A | Mx | -.002 | 9 |
| 7 | MP1A | X | 4.301 | 6 |
| 8 | MP1A | Z | -2.483 | 6 |
| 9 | MP1A | Mx | -.002 | 6 |
| 10 | MP1A | X | 4.301 | 42 |
| 11 | MP1A | Z | -2.483 | 42 |
| 12 | MP1A | Mx | -.002 | 42 |
| 13 | MP3A | X | 9.815 | 3 |
| 14 | MP3A | Z | -5.667 | 3 |
| 15 | MP3A | Mx | -.01 | 3 |
| 16 | MP3A | X | 9.815 | 69 |
| 17 | MP3A | Z | -5.667 | 69 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
 11:06 AM
 Checked By: _____

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 18 | MP3A | Mx | -.01 | 69 |
| 19 | MP3A | X | 9.815 | 3 |
| 20 | MP3A | Z | -5.667 | 3 |
| 21 | MP3A | Mx | .002 | 3 |
| 22 | MP3A | X | 9.815 | 69 |
| 23 | MP3A | Z | -5.667 | 69 |
| 24 | MP3A | Mx | .002 | 69 |
| 25 | MP3A | X | 3.206 | 30 |
| 26 | MP3A | Z | -1.851 | 30 |
| 27 | MP3A | Mx | .003 | 30 |
| 28 | MP3A | X | 2.799 | 30 |
| 29 | MP3A | Z | -1.616 | 30 |
| 30 | MP3A | Mx | .000322 | 30 |
| 31 | MP5A | X | 1.309 | 45 |
| 32 | MP5A | Z | -.756 | 45 |
| 33 | MP5A | Mx | -.000534 | 45 |
| 34 | MP5A | X | 1.309 | 51 |
| 35 | MP5A | Z | -.756 | 51 |
| 36 | MP5A | Mx | -.000534 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 2.676 | 3 |
| 2 | MP5A | Z | 0 | 3 |
| 3 | MP5A | Mx | -.001 | 3 |
| 4 | MP5A | X | 2.676 | 9 |
| 5 | MP5A | Z | 0 | 9 |
| 6 | MP5A | Mx | -.001 | 9 |
| 7 | MP1A | X | 4.386 | 6 |
| 8 | MP1A | Z | 0 | 6 |
| 9 | MP1A | Mx | -.002 | 6 |
| 10 | MP1A | X | 4.386 | 42 |
| 11 | MP1A | Z | 0 | 42 |
| 12 | MP1A | Mx | -.002 | 42 |
| 13 | MP3A | X | 9.89 | 3 |
| 14 | MP3A | Z | 0 | 3 |
| 15 | MP3A | Mx | -.007 | 3 |
| 16 | MP3A | X | 9.89 | 69 |
| 17 | MP3A | Z | 0 | 69 |
| 18 | MP3A | Mx | -.007 | 69 |
| 19 | MP3A | X | 9.89 | 3 |
| 20 | MP3A | Z | 0 | 3 |
| 21 | MP3A | Mx | -.003 | 3 |
| 22 | MP3A | X | 9.89 | 69 |
| 23 | MP3A | Z | 0 | 69 |
| 24 | MP3A | Mx | -.003 | 69 |
| 25 | MP3A | X | 3.293 | 30 |
| 26 | MP3A | Z | 0 | 30 |
| 27 | MP3A | Mx | .002 | 30 |
| 28 | MP3A | X | 2.667 | 30 |
| 29 | MP3A | Z | 0 | 30 |
| 30 | MP3A | Mx | .001 | 30 |
| 31 | MP5A | X | 1.064 | 45 |
| 32 | MP5A | Z | 0 | 45 |
| 33 | MP5A | Mx | -.000514 | 45 |
| 34 | MP5A | X | 1.064 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 35 | MP5A | Z | 0 | 51 |
| 36 | MP5A | Mx | -.000514 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 2.318 | 3 |
| 2 | MP5A | Z | 1.338 | 3 |
| 3 | MP5A | Mx | -.001 | 3 |
| 4 | MP5A | X | 2.318 | 9 |
| 5 | MP5A | Z | 1.338 | 9 |
| 6 | MP5A | Mx | -.001 | 9 |
| 7 | MP1A | X | 4.301 | 6 |
| 8 | MP1A | Z | 2.483 | 6 |
| 9 | MP1A | Mx | -.002 | 6 |
| 10 | MP1A | X | 4.301 | 42 |
| 11 | MP1A | Z | 2.483 | 42 |
| 12 | MP1A | Mx | -.002 | 42 |
| 13 | MP3A | X | 8.565 | 3 |
| 14 | MP3A | Z | 4.945 | 3 |
| 15 | MP3A | Mx | -.003 | 3 |
| 16 | MP3A | X | 8.565 | 69 |
| 17 | MP3A | Z | 4.945 | 69 |
| 18 | MP3A | Mx | -.003 | 69 |
| 19 | MP3A | X | 8.565 | 3 |
| 20 | MP3A | Z | 4.945 | 3 |
| 21 | MP3A | Mx | -.007 | 3 |
| 22 | MP3A | X | 8.565 | 69 |
| 23 | MP3A | Z | 4.945 | 69 |
| 24 | MP3A | Mx | -.007 | 69 |
| 25 | MP3A | X | 3.206 | 30 |
| 26 | MP3A | Z | 1.851 | 30 |
| 27 | MP3A | Mx | .000369 | 30 |
| 28 | MP3A | X | 2.799 | 30 |
| 29 | MP3A | Z | 1.616 | 30 |
| 30 | MP3A | Mx | .002 | 30 |
| 31 | MP5A | X | .921 | 45 |
| 32 | MP5A | Z | .532 | 45 |
| 33 | MP5A | Mx | -.000514 | 45 |
| 34 | MP5A | X | .921 | 51 |
| 35 | MP5A | Z | .532 | 51 |
| 36 | MP5A | Mx | -.000514 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 2.154 | 3 |
| 2 | MP5A | Z | 3.73 | 3 |
| 3 | MP5A | Mx | -.002 | 3 |
| 4 | MP5A | X | 2.154 | 9 |
| 5 | MP5A | Z | 3.73 | 9 |
| 6 | MP5A | Mx | -.002 | 9 |
| 7 | MP1A | X | 3.063 | 6 |
| 8 | MP1A | Z | 5.305 | 6 |
| 9 | MP1A | Mx | -.002 | 6 |
| 10 | MP1A | X | 3.063 | 42 |
| 11 | MP1A | Z | 5.305 | 42 |
| 12 | MP1A | Mx | -.002 | 42 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP3A | X | 5.667 | 3 |
| 14 | MP3A | Z | 9.815 | 3 |
| 15 | MP3A | Mx | .002 | 3 |
| 16 | MP3A | X | 5.667 | 69 |
| 17 | MP3A | Z | 9.815 | 69 |
| 18 | MP3A | Mx | .002 | 69 |
| 19 | MP3A | X | 5.667 | 3 |
| 20 | MP3A | Z | 9.815 | 3 |
| 21 | MP3A | Mx | -.01 | 3 |
| 22 | MP3A | X | 5.667 | 69 |
| 23 | MP3A | Z | 9.815 | 69 |
| 24 | MP3A | Mx | -.01 | 69 |
| 25 | MP3A | X | 2.259 | 30 |
| 26 | MP3A | Z | 3.913 | 30 |
| 27 | MP3A | Mx | -.001 | 30 |
| 28 | MP3A | X | 2.181 | 30 |
| 29 | MP3A | Z | 3.777 | 30 |
| 30 | MP3A | Mx | .004 | 30 |
| 31 | MP5A | X | .756 | 45 |
| 32 | MP5A | Z | 1.309 | 45 |
| 33 | MP5A | Mx | -.000535 | 45 |
| 34 | MP5A | X | .756 | 51 |
| 35 | MP5A | Z | 1.309 | 51 |
| 36 | MP5A | Mx | -.000535 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 0 | 3 |
| 2 | MP5A | Z | 5.939 | 3 |
| 3 | MP5A | Mx | -.000769 | 3 |
| 4 | MP5A | X | 0 | 9 |
| 5 | MP5A | Z | 5.939 | 9 |
| 6 | MP5A | Mx | -.000769 | 9 |
| 7 | MP1A | X | 0 | 6 |
| 8 | MP1A | Z | 6.705 | 6 |
| 9 | MP1A | Mx | 0 | 6 |
| 10 | MP1A | X | 0 | 42 |
| 11 | MP1A | Z | 6.705 | 42 |
| 12 | MP1A | Mx | 0 | 42 |
| 13 | MP3A | X | 0 | 3 |
| 14 | MP3A | Z | 12.778 | 3 |
| 15 | MP3A | Mx | .008 | 3 |
| 16 | MP3A | X | 0 | 69 |
| 17 | MP3A | Z | 12.778 | 69 |
| 18 | MP3A | Mx | .008 | 69 |
| 19 | MP3A | X | 0 | 3 |
| 20 | MP3A | Z | 12.778 | 3 |
| 21 | MP3A | Mx | -.011 | 3 |
| 22 | MP3A | X | 0 | 69 |
| 23 | MP3A | Z | 12.778 | 69 |
| 24 | MP3A | Mx | -.011 | 69 |
| 25 | MP3A | X | 0 | 30 |
| 26 | MP3A | Z | 4.927 | 30 |
| 27 | MP3A | Mx | -.003 | 30 |
| 28 | MP3A | X | 0 | 30 |
| 29 | MP3A | Z | 4.927 | 30 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 30 | MP3A | Mx | .003 | 30 |
| 31 | MP5A | X | 0 | 45 |
| 32 | MP5A | Z | 1.959 | 45 |
| 33 | MP5A | Mx | -.000254 | 45 |
| 34 | MP5A | X | 0 | 51 |
| 35 | MP5A | Z | 1.959 | 51 |
| 36 | MP5A | Mx | -.000254 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -2.969 | 3 |
| 2 | MP5A | Z | 5.143 | 3 |
| 3 | MP5A | Mx | .000768 | 3 |
| 4 | MP5A | X | -2.969 | 9 |
| 5 | MP5A | Z | 5.143 | 9 |
| 6 | MP5A | Mx | .000768 | 9 |
| 7 | MP1A | X | -3.063 | 6 |
| 8 | MP1A | Z | 5.305 | 6 |
| 9 | MP1A | Mx | .002 | 6 |
| 10 | MP1A | X | -3.063 | 42 |
| 11 | MP1A | Z | 5.305 | 42 |
| 12 | MP1A | Mx | .002 | 42 |
| 13 | MP3A | X | -6.389 | 3 |
| 14 | MP3A | Z | 11.066 | 3 |
| 15 | MP3A | Mx | .011 | 3 |
| 16 | MP3A | X | -6.389 | 69 |
| 17 | MP3A | Z | 11.066 | 69 |
| 18 | MP3A | Mx | .011 | 69 |
| 19 | MP3A | X | -6.389 | 3 |
| 20 | MP3A | Z | 11.066 | 3 |
| 21 | MP3A | Mx | -.008 | 3 |
| 22 | MP3A | X | -6.389 | 69 |
| 23 | MP3A | Z | 11.066 | 69 |
| 24 | MP3A | Mx | -.008 | 69 |
| 25 | MP3A | X | -2.259 | 30 |
| 26 | MP3A | Z | 3.913 | 30 |
| 27 | MP3A | Mx | -.004 | 30 |
| 28 | MP3A | X | -2.181 | 30 |
| 29 | MP3A | Z | 3.777 | 30 |
| 30 | MP3A | Mx | .001 | 30 |
| 31 | MP5A | X | -.98 | 45 |
| 32 | MP5A | Z | 1.697 | 45 |
| 33 | MP5A | Mx | .000254 | 45 |
| 34 | MP5A | X | -.98 | 51 |
| 35 | MP5A | Z | 1.697 | 51 |
| 36 | MP5A | Mx | .000254 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -3.73 | 3 |
| 2 | MP5A | Z | 2.154 | 3 |
| 3 | MP5A | Mx | .002 | 3 |
| 4 | MP5A | X | -3.73 | 9 |
| 5 | MP5A | Z | 2.154 | 9 |
| 6 | MP5A | Mx | .002 | 9 |
| 7 | MP1A | X | -4.301 | 6 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP3A | X | -3.293 | 30 |
| 26 | MP3A | Z | 0 | 30 |
| 27 | MP3A | Mx | -.002 | 30 |
| 28 | MP3A | X | -2.667 | 30 |
| 29 | MP3A | Z | 0 | 30 |
| 30 | MP3A | Mx | -.001 | 30 |
| 31 | MP5A | X | -1.064 | 45 |
| 32 | MP5A | Z | 0 | 45 |
| 33 | MP5A | Mx | .000514 | 45 |
| 34 | MP5A | X | -1.064 | 51 |
| 35 | MP5A | Z | 0 | 51 |
| 36 | MP5A | Mx | .000514 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -2.318 | 3 |
| 2 | MP5A | Z | -1.338 | 3 |
| 3 | MP5A | Mx | .001 | 3 |
| 4 | MP5A | X | -2.318 | 9 |
| 5 | MP5A | Z | -1.338 | 9 |
| 6 | MP5A | Mx | .001 | 9 |
| 7 | MP1A | X | -4.301 | 6 |
| 8 | MP1A | Z | -2.483 | 6 |
| 9 | MP1A | Mx | .002 | 6 |
| 10 | MP1A | X | -4.301 | 42 |
| 11 | MP1A | Z | -2.483 | 42 |
| 12 | MP1A | Mx | .002 | 42 |
| 13 | MP3A | X | -8.565 | 3 |
| 14 | MP3A | Z | -4.945 | 3 |
| 15 | MP3A | Mx | .003 | 3 |
| 16 | MP3A | X | -8.565 | 69 |
| 17 | MP3A | Z | -4.945 | 69 |
| 18 | MP3A | Mx | .003 | 69 |
| 19 | MP3A | X | -8.565 | 3 |
| 20 | MP3A | Z | -4.945 | 3 |
| 21 | MP3A | Mx | .007 | 3 |
| 22 | MP3A | X | -8.565 | 69 |
| 23 | MP3A | Z | -4.945 | 69 |
| 24 | MP3A | Mx | .007 | 69 |
| 25 | MP3A | X | -3.206 | 30 |
| 26 | MP3A | Z | -1.851 | 30 |
| 27 | MP3A | Mx | -.000369 | 30 |
| 28 | MP3A | X | -2.799 | 30 |
| 29 | MP3A | Z | -1.616 | 30 |
| 30 | MP3A | Mx | -.002 | 30 |
| 31 | MP5A | X | -.921 | 45 |
| 32 | MP5A | Z | -.532 | 45 |
| 33 | MP5A | Mx | .000514 | 45 |
| 34 | MP5A | X | -.921 | 51 |
| 35 | MP5A | Z | -.532 | 51 |
| 36 | MP5A | Mx | .000514 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | -2.154 | 3 |
| 2 | MP5A | Z | -3.73 | 3 |



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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 3 | MP5A | Mx | .002 | 3 |
| 4 | MP5A | X | -2.154 | 9 |
| 5 | MP5A | Z | -3.73 | 9 |
| 6 | MP5A | Mx | .002 | 9 |
| 7 | MP1A | X | -3.063 | 6 |
| 8 | MP1A | Z | -5.305 | 6 |
| 9 | MP1A | Mx | .002 | 6 |
| 10 | MP1A | X | -3.063 | 42 |
| 11 | MP1A | Z | -5.305 | 42 |
| 12 | MP1A | Mx | .002 | 42 |
| 13 | MP3A | X | -5.667 | 3 |
| 14 | MP3A | Z | -9.815 | 3 |
| 15 | MP3A | Mx | -.002 | 3 |
| 16 | MP3A | X | -5.667 | 69 |
| 17 | MP3A | Z | -9.815 | 69 |
| 18 | MP3A | Mx | -.002 | 69 |
| 19 | MP3A | X | -5.667 | 3 |
| 20 | MP3A | Z | -9.815 | 3 |
| 21 | MP3A | Mx | .01 | 3 |
| 22 | MP3A | X | -5.667 | 69 |
| 23 | MP3A | Z | -9.815 | 69 |
| 24 | MP3A | Mx | .01 | 69 |
| 25 | MP3A | X | -2.259 | 30 |
| 26 | MP3A | Z | -3.913 | 30 |
| 27 | MP3A | Mx | .001 | 30 |
| 28 | MP3A | X | -2.181 | 30 |
| 29 | MP3A | Z | -3.777 | 30 |
| 30 | MP3A | Mx | -.004 | 30 |
| 31 | MP5A | X | -.756 | 45 |
| 32 | MP5A | Z | -1.309 | 45 |
| 33 | MP5A | Mx | .000535 | 45 |
| 34 | MP5A | X | -.756 | 51 |
| 35 | MP5A | Z | -1.309 | 51 |
| 36 | MP5A | Mx | .000535 | 51 |

Member Point Loads (BLC 77 : Lm1)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M53A | Y | -500 | 0 |

Member Point Loads (BLC 78 : Lm2)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M59A | Y | -500 | 0 |

Member Point Loads (BLC 79 : Lv1)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M54 | Y | -250 | %100 |

Member Point Loads (BLC 80 : Lv2)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M54 | Y | -250 | %50 |

Member Point Loads (BLC 81 : Antenna Ev)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP5A | Y | -1.802 | 3 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 2 | MP5A | My | -0.0087 | 3 |
| 3 | MP5A | Mz | -0.00233 | 3 |
| 4 | MP5A | Y | -1.802 | 9 |
| 5 | MP5A | My | -0.0087 | 9 |
| 6 | MP5A | Mz | -0.00233 | 9 |
| 7 | MP1A | Y | -0.575 | 6 |
| 8 | MP1A | My | -0.00288 | 6 |
| 9 | MP1A | Mz | 0 | 6 |
| 10 | MP1A | Y | -0.575 | 42 |
| 11 | MP1A | My | -0.00288 | 42 |
| 12 | MP1A | Mz | 0 | 42 |
| 13 | MP3A | Y | -0.952 | 3 |
| 14 | MP3A | My | -0.00645 | 3 |
| 15 | MP3A | Mz | .000566 | 3 |
| 16 | MP3A | Y | -0.952 | 69 |
| 17 | MP3A | My | -0.00645 | 69 |
| 18 | MP3A | Mz | .000566 | 69 |
| 19 | MP3A | Y | -0.952 | 3 |
| 20 | MP3A | My | -0.00275 | 3 |
| 21 | MP3A | Mz | -0.00813 | 3 |
| 22 | MP3A | Y | -0.952 | 69 |
| 23 | MP3A | My | -0.00275 | 69 |
| 24 | MP3A | Mz | -0.00813 | 69 |
| 25 | MP3A | Y | -3.493 | 30 |
| 26 | MP3A | My | .002 | 30 |
| 27 | MP3A | Mz | -0.002 | 30 |
| 28 | MP3A | Y | -2.909 | 30 |
| 29 | MP3A | My | .001 | 30 |
| 30 | MP3A | Mz | .002 | 30 |
| 31 | MP5A | Y | -0.478 | 45 |
| 32 | MP5A | My | -0.00231 | 45 |
| 33 | MP5A | Mz | -6.2e-5 | 45 |
| 34 | MP5A | Y | -0.478 | 51 |
| 35 | MP5A | My | -0.00231 | 51 |
| 36 | MP5A | Mz | -6.2e-5 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | Z | -4.506 | 3 |
| 2 | MP5A | Mx | .000583 | 3 |
| 3 | MP5A | Z | -4.506 | 9 |
| 4 | MP5A | Mx | .000583 | 9 |
| 5 | MP1A | Z | -1.438 | 6 |
| 6 | MP1A | Mx | 0 | 6 |
| 7 | MP1A | Z | -1.438 | 42 |
| 8 | MP1A | Mx | 0 | 42 |
| 9 | MP3A | Z | -2.38 | 3 |
| 10 | MP3A | Mx | -0.001 | 3 |
| 11 | MP3A | Z | -2.38 | 69 |
| 12 | MP3A | Mx | -0.001 | 69 |
| 13 | MP3A | Z | -2.38 | 3 |
| 14 | MP3A | Mx | .002 | 3 |
| 15 | MP3A | Z | -2.38 | 69 |
| 16 | MP3A | Mx | .002 | 69 |
| 17 | MP3A | Z | -8.733 | 30 |
| 18 | MP3A | Mx | .006 | 30 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 19 | MP3A | Z | -7.274 | 30 |
| 20 | MP3A | Mx | -0.005 | 30 |
| 21 | MP5A | Z | -1.195 | 45 |
| 22 | MP5A | Mx | .000155 | 45 |
| 23 | MP5A | Z | -1.195 | 51 |
| 24 | MP5A | Mx | .000155 | 51 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[in.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP5A | X | 4.506 | 3 |
| 2 | MP5A | Mx | -0.002 | 3 |
| 3 | MP5A | X | 4.506 | 9 |
| 4 | MP5A | Mx | -0.002 | 9 |
| 5 | MP1A | X | 1.438 | 6 |
| 6 | MP1A | Mx | -0.000719 | 6 |
| 7 | MP1A | X | 1.438 | 42 |
| 8 | MP1A | Mx | -0.000719 | 42 |
| 9 | MP3A | X | 2.38 | 3 |
| 10 | MP3A | Mx | -0.002 | 3 |
| 11 | MP3A | X | 2.38 | 69 |
| 12 | MP3A | Mx | -0.002 | 69 |
| 13 | MP3A | X | 2.38 | 3 |
| 14 | MP3A | Mx | -0.000687 | 3 |
| 15 | MP3A | X | 2.38 | 69 |
| 16 | MP3A | Mx | -0.000687 | 69 |
| 17 | MP3A | X | 8.733 | 30 |
| 18 | MP3A | Mx | .004 | 30 |
| 19 | MP3A | X | 7.274 | 30 |
| 20 | MP3A | Mx | .004 | 30 |
| 21 | MP5A | X | 1.195 | 45 |
| 22 | MP5A | Mx | -0.000577 | 45 |
| 23 | MP5A | X | 1.195 | 51 |
| 24 | MP5A | Mx | -0.000577 | 51 |

Member Distributed Loads (BLC 40 : Structure Di)

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | Y | -5.662 | -5.662 | 0 | %100 |
| 2 | M54 | Y | -5.662 | -5.662 | 0 | %100 |
| 3 | MP1A | Y | -4.959 | -4.959 | 0 | %100 |
| 4 | M39 | Y | -4.959 | -4.959 | 0 | %100 |
| 5 | M40 | Y | -7.269 | -7.269 | 0 | %100 |
| 6 | M42 | Y | -7.269 | -7.269 | 0 | %100 |
| 7 | M43 | Y | -4.959 | -4.959 | 0 | %100 |
| 8 | M44 | Y | -4.959 | -4.959 | 0 | %100 |
| 9 | M45 | Y | -4.291 | -4.291 | 0 | %100 |
| 10 | M48 | Y | -4.291 | -4.291 | 0 | %100 |
| 11 | M53 | Y | -7.269 | -7.269 | 0 | %100 |
| 12 | M54A | Y | -7.269 | -7.269 | 0 | %100 |
| 13 | M55 | Y | -4.291 | -4.291 | 0 | %100 |
| 14 | M56 | Y | -4.291 | -4.291 | 0 | %100 |
| 15 | M58 | Y | -4.959 | -4.959 | 0 | %100 |
| 16 | M59 | Y | -7.269 | -7.269 | 0 | %100 |
| 17 | M61 | Y | -7.269 | -7.269 | 0 | %100 |
| 18 | M62 | Y | -4.959 | -4.959 | 0 | %100 |
| 19 | M63 | Y | -4.959 | -4.959 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 20 | M64 | Y | -4.291 | -4.291 | 0 | %100 |
| 21 | M67 | Y | -4.291 | -4.291 | 0 | %100 |
| 22 | M72 | Y | -7.269 | -7.269 | 0 | %100 |
| 23 | M73 | Y | -7.269 | -7.269 | 0 | %100 |
| 24 | M74 | Y | -4.291 | -4.291 | 0 | %100 |
| 25 | M75 | Y | -4.291 | -4.291 | 0 | %100 |
| 26 | M76 | Y | -8.651 | -8.651 | 0 | %100 |
| 27 | M46A | Y | -8.651 | -8.651 | 0 | %100 |
| 28 | M48A | Y | -5.662 | -5.662 | 0 | %100 |
| 29 | MP2A | Y | -4.959 | -4.959 | 0 | %100 |
| 30 | MP3A | Y | -4.959 | -4.959 | 0 | %100 |
| 31 | MP4A | Y | -4.959 | -4.959 | 0 | %100 |
| 32 | MP5A | Y | -4.959 | -4.959 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 | %100 |
| 2 | M51 | Z | -13.361 | -13.361 | 0 | %100 |
| 3 | M54 | X | 0 | 0 | 0 | %100 |
| 4 | M54 | Z | -13.361 | -13.361 | 0 | %100 |
| 5 | MP1A | X | 0 | 0 | 0 | %100 |
| 6 | MP1A | Z | -11.037 | -11.037 | 0 | %100 |
| 7 | M39 | X | 0 | 0 | 0 | %100 |
| 8 | M39 | Z | -5.23 | -5.23 | 0 | %100 |
| 9 | M40 | X | 0 | 0 | 0 | %100 |
| 10 | M40 | Z | -8.26 | -8.26 | 0 | %100 |
| 11 | M42 | X | 0 | 0 | 0 | %100 |
| 12 | M42 | Z | -8.26 | -8.26 | 0 | %100 |
| 13 | M43 | X | 0 | 0 | 0 | %100 |
| 14 | M43 | Z | -5.23 | -5.23 | 0 | %100 |
| 15 | M44 | X | 0 | 0 | 0 | %100 |
| 16 | M44 | Z | -8.294 | -8.294 | 0 | %100 |
| 17 | M45 | X | 0 | 0 | 0 | %100 |
| 18 | M45 | Z | -7.84 | -7.84 | 0 | %100 |
| 19 | M48 | X | 0 | 0 | 0 | %100 |
| 20 | M48 | Z | -7.84 | -7.84 | 0 | %100 |
| 21 | M53 | X | 0 | 0 | 0 | %100 |
| 22 | M53 | Z | -1.743 | -1.743 | 0 | %100 |
| 23 | M54A | X | 0 | 0 | 0 | %100 |
| 24 | M54A | Z | -1.743 | -1.743 | 0 | %100 |
| 25 | M55 | X | 0 | 0 | 0 | %100 |
| 26 | M55 | Z | -6.915 | -6.915 | 0 | %100 |
| 27 | M56 | X | 0 | 0 | 0 | %100 |
| 28 | M56 | Z | -6.915 | -6.915 | 0 | %100 |
| 29 | M58 | X | 0 | 0 | 0 | %100 |
| 30 | M58 | Z | -5.23 | -5.23 | 0 | %100 |
| 31 | M59 | X | 0 | 0 | 0 | %100 |
| 32 | M59 | Z | -8.26 | -8.26 | 0 | %100 |
| 33 | M61 | X | 0 | 0 | 0 | %100 |
| 34 | M61 | Z | -8.26 | -8.26 | 0 | %100 |
| 35 | M62 | X | 0 | 0 | 0 | %100 |
| 36 | M62 | Z | -5.23 | -5.23 | 0 | %100 |
| 37 | M63 | X | 0 | 0 | 0 | %100 |
| 38 | M63 | Z | -8.294 | -8.294 | 0 | %100 |
| 39 | M64 | X | 0 | 0 | 0 | %100 |
| 40 | M64 | Z | -7.84 | -7.84 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
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 Checked By: _____

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 41 | M67 | X | 0 | 0 | 0 | %100 |
| 42 | M67 | Z | -7.84 | -7.84 | 0 | %100 |
| 43 | M72 | X | 0 | 0 | 0 | %100 |
| 44 | M72 | Z | -1.743 | -1.743 | 0 | %100 |
| 45 | M73 | X | 0 | 0 | 0 | %100 |
| 46 | M73 | Z | -1.743 | -1.743 | 0 | %100 |
| 47 | M74 | X | 0 | 0 | 0 | %100 |
| 48 | M74 | Z | -6.915 | -6.915 | 0 | %100 |
| 49 | M75 | X | 0 | 0 | 0 | %100 |
| 50 | M75 | Z | -6.915 | -6.915 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | -18.589 | -18.589 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | -18.589 | -18.589 | 0 | %100 |
| 55 | M48A | X | 0 | 0 | 0 | %100 |
| 56 | M48A | Z | -8.142 | -8.142 | 0 | %100 |
| 57 | MP2A | X | 0 | 0 | 0 | %100 |
| 58 | MP2A | Z | -11.037 | -11.037 | 0 | %100 |
| 59 | MP3A | X | 0 | 0 | 0 | %100 |
| 60 | MP3A | Z | -11.037 | -11.037 | 0 | %100 |
| 61 | MP4A | X | 0 | 0 | 0 | %100 |
| 62 | MP4A | Z | -10.984 | -10.984 | 0 | %100 |
| 63 | MP5A | X | 0 | 0 | 0 | %100 |
| 64 | MP5A | Z | -11.037 | -11.037 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 5.01 | 5.01 | 0 | %100 |
| 2 | M51 | Z | -8.678 | -8.678 | 0 | %100 |
| 3 | M54 | X | 5.01 | 5.01 | 0 | %100 |
| 4 | M54 | Z | -8.678 | -8.678 | 0 | %100 |
| 5 | MP1A | X | 5.519 | 5.519 | 0 | %100 |
| 6 | MP1A | Z | -9.559 | -9.559 | 0 | %100 |
| 7 | M39 | X | .301 | .301 | 0 | %100 |
| 8 | M39 | Z | -.521 | -.521 | 0 | %100 |
| 9 | M40 | X | .047 | .047 | 0 | %100 |
| 10 | M40 | Z | -.082 | -.082 | 0 | %100 |
| 11 | M42 | X | .047 | .047 | 0 | %100 |
| 12 | M42 | Z | -.082 | -.082 | 0 | %100 |
| 13 | M43 | X | .301 | .301 | 0 | %100 |
| 14 | M43 | Z | -.521 | -.521 | 0 | %100 |
| 15 | M44 | X | 4.147 | 4.147 | 0 | %100 |
| 16 | M44 | Z | -7.183 | -7.183 | 0 | %100 |
| 17 | M45 | X | 3.92 | 3.92 | 0 | %100 |
| 18 | M45 | Z | -6.79 | -6.79 | 0 | %100 |
| 19 | M48 | X | 3.92 | 3.92 | 0 | %100 |
| 20 | M48 | Z | -6.79 | -6.79 | 0 | %100 |
| 21 | M53 | X | 3.644 | 3.644 | 0 | %100 |
| 22 | M53 | Z | -6.312 | -6.312 | 0 | %100 |
| 23 | M54A | X | 3.644 | 3.644 | 0 | %100 |
| 24 | M54A | Z | -6.312 | -6.312 | 0 | %100 |
| 25 | M55 | X | 2.738 | 2.738 | 0 | %100 |
| 26 | M55 | Z | -4.742 | -4.742 | 0 | %100 |
| 27 | M56 | X | 2.738 | 2.738 | 0 | %100 |
| 28 | M56 | Z | -4.742 | -4.742 | 0 | %100 |
| 29 | M58 | X | 5.074 | 5.074 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 30 | M58 | Z | -8.788 | -8.788 | 0 %100 |
| 31 | M59 | X | .801 | .801 | 0 %100 |
| 32 | M59 | Z | -1.388 | -1.388 | 0 %100 |
| 33 | M61 | X | .801 | .801 | 0 %100 |
| 34 | M61 | Z | -1.388 | -1.388 | 0 %100 |
| 35 | M62 | X | 5.074 | 5.074 | 0 %100 |
| 36 | M62 | Z | -8.788 | -8.788 | 0 %100 |
| 37 | M63 | X | 4.147 | 4.147 | 0 %100 |
| 38 | M63 | Z | -7.183 | -7.183 | 0 %100 |
| 39 | M64 | X | 3.92 | 3.92 | 0 %100 |
| 40 | M64 | Z | -6.79 | -6.79 | 0 %100 |
| 41 | M67 | X | 3.92 | 3.92 | 0 %100 |
| 42 | M67 | Z | -6.79 | -6.79 | 0 %100 |
| 43 | M72 | X | 3.644 | 3.644 | 0 %100 |
| 44 | M72 | Z | -6.312 | -6.312 | 0 %100 |
| 45 | M73 | X | 3.644 | 3.644 | 0 %100 |
| 46 | M73 | Z | -6.312 | -6.312 | 0 %100 |
| 47 | M74 | X | 4.222 | 4.222 | 0 %100 |
| 48 | M74 | Z | -7.312 | -7.312 | 0 %100 |
| 49 | M75 | X | 4.222 | 4.222 | 0 %100 |
| 50 | M75 | Z | -7.312 | -7.312 | 0 %100 |
| 51 | M76 | X | 6.971 | 6.971 | 0 %100 |
| 52 | M76 | Z | -12.074 | -12.074 | 0 %100 |
| 53 | M46A | X | 6.971 | 6.971 | 0 %100 |
| 54 | M46A | Z | -12.074 | -12.074 | 0 %100 |
| 55 | M48A | X | 6.528 | 6.528 | 0 %100 |
| 56 | M48A | Z | -11.308 | -11.308 | 0 %100 |
| 57 | MP2A | X | 5.519 | 5.519 | 0 %100 |
| 58 | MP2A | Z | -9.559 | -9.559 | 0 %100 |
| 59 | MP3A | X | 5.519 | 5.519 | 0 %100 |
| 60 | MP3A | Z | -9.559 | -9.559 | 0 %100 |
| 61 | MP4A | X | 5.492 | 5.492 | 0 %100 |
| 62 | MP4A | Z | -9.512 | -9.512 | 0 %100 |
| 63 | MP5A | X | 5.519 | 5.519 | 0 %100 |
| 64 | MP5A | Z | -9.559 | -9.559 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 2.893 | 2.893 | 0 %100 |
| 2 | M51 | Z | -1.67 | -1.67 | 0 %100 |
| 3 | M54 | X | 2.893 | 2.893 | 0 %100 |
| 4 | M54 | Z | -1.67 | -1.67 | 0 %100 |
| 5 | MP1A | X | 9.559 | 9.559 | 0 %100 |
| 6 | MP1A | Z | -5.519 | -5.519 | 0 %100 |
| 7 | M39 | X | .771 | .771 | 0 %100 |
| 8 | M39 | Z | -.445 | -.445 | 0 %100 |
| 9 | M40 | X | .122 | .122 | 0 %100 |
| 10 | M40 | Z | -.07 | -.07 | 0 %100 |
| 11 | M42 | X | .122 | .122 | 0 %100 |
| 12 | M42 | Z | -.07 | -.07 | 0 %100 |
| 13 | M43 | X | .771 | .771 | 0 %100 |
| 14 | M43 | Z | -.445 | -.445 | 0 %100 |
| 15 | M44 | X | 7.183 | 7.183 | 0 %100 |
| 16 | M44 | Z | -4.147 | -4.147 | 0 %100 |
| 17 | M45 | X | 6.79 | 6.79 | 0 %100 |
| 18 | M45 | Z | -3.92 | -3.92 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 19 | M48 | X | 6.79 | 6.79 | 0 %100 |
| 20 | M48 | Z | -3.92 | -3.92 | 0 %100 |
| 21 | M53 | X | 15.917 | 15.917 | 0 %100 |
| 22 | M53 | Z | -9.19 | -9.19 | 0 %100 |
| 23 | M54A | X | 15.917 | 15.917 | 0 %100 |
| 24 | M54A | Z | -9.19 | -9.19 | 0 %100 |
| 25 | M55 | X | 4.82 | 4.82 | 0 %100 |
| 26 | M55 | Z | -2.783 | -2.783 | 0 %100 |
| 27 | M56 | X | 4.82 | 4.82 | 0 %100 |
| 28 | M56 | Z | -2.783 | -2.783 | 0 %100 |
| 29 | M58 | X | 9.038 | 9.038 | 0 %100 |
| 30 | M58 | Z | -5.218 | -5.218 | 0 %100 |
| 31 | M59 | X | 1.427 | 1.427 | 0 %100 |
| 32 | M59 | Z | -.824 | -.824 | 0 %100 |
| 33 | M61 | X | 1.427 | 1.427 | 0 %100 |
| 34 | M61 | Z | -.824 | -.824 | 0 %100 |
| 35 | M62 | X | 9.038 | 9.038 | 0 %100 |
| 36 | M62 | Z | -5.218 | -5.218 | 0 %100 |
| 37 | M63 | X | 7.183 | 7.183 | 0 %100 |
| 38 | M63 | Z | -4.147 | -4.147 | 0 %100 |
| 39 | M64 | X | 6.79 | 6.79 | 0 %100 |
| 40 | M64 | Z | -3.92 | -3.92 | 0 %100 |
| 41 | M67 | X | 6.79 | 6.79 | 0 %100 |
| 42 | M67 | Z | -3.92 | -3.92 | 0 %100 |
| 43 | M72 | X | 15.917 | 15.917 | 0 %100 |
| 44 | M72 | Z | -9.19 | -9.19 | 0 %100 |
| 45 | M73 | X | 15.917 | 15.917 | 0 %100 |
| 46 | M73 | Z | -9.19 | -9.19 | 0 %100 |
| 47 | M74 | X | 7.39 | 7.39 | 0 %100 |
| 48 | M74 | Z | -4.267 | -4.267 | 0 %100 |
| 49 | M75 | X | 7.39 | 7.39 | 0 %100 |
| 50 | M75 | Z | -4.267 | -4.267 | 0 %100 |
| 51 | M76 | X | 4.025 | 4.025 | 0 %100 |
| 52 | M76 | Z | -2.324 | -2.324 | 0 %100 |
| 53 | M46A | X | 4.025 | 4.025 | 0 %100 |
| 54 | M46A | Z | -2.324 | -2.324 | 0 %100 |
| 55 | M48A | X | 10.042 | 10.042 | 0 %100 |
| 56 | M48A | Z | -5.798 | -5.798 | 0 %100 |
| 57 | MP2A | X | 9.559 | 9.559 | 0 %100 |
| 58 | MP2A | Z | -5.519 | -5.519 | 0 %100 |
| 59 | MP3A | X | 9.559 | 9.559 | 0 %100 |
| 60 | MP3A | Z | -5.519 | -5.519 | 0 %100 |
| 61 | MP4A | X | 9.512 | 9.512 | 0 %100 |
| 62 | MP4A | Z | -5.492 | -5.492 | 0 %100 |
| 63 | MP5A | X | 9.559 | 9.559 | 0 %100 |
| 64 | MP5A | Z | -5.519 | -5.519 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 %100 |
| 2 | M51 | Z | 0 | 0 | 0 %100 |
| 3 | M54 | X | 0 | 0 | 0 %100 |
| 4 | M54 | Z | 0 | 0 | 0 %100 |
| 5 | MP1A | X | 11.037 | 11.037 | 0 %100 |
| 6 | MP1A | Z | 0 | 0 | 0 %100 |
| 7 | M39 | X | 5.808 | 5.808 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
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 Checked By: _____

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 8 | M39 | Z | 0 | 0 | 0 | %100 |
| 9 | M40 | X | .917 | .917 | 0 | %100 |
| 10 | M40 | Z | 0 | 0 | 0 | %100 |
| 11 | M42 | X | .917 | .917 | 0 | %100 |
| 12 | M42 | Z | 0 | 0 | 0 | %100 |
| 13 | M43 | X | 5.808 | 5.808 | 0 | %100 |
| 14 | M43 | Z | 0 | 0 | 0 | %100 |
| 15 | M44 | X | 8.294 | 8.294 | 0 | %100 |
| 16 | M44 | Z | 0 | 0 | 0 | %100 |
| 17 | M45 | X | 7.84 | 7.84 | 0 | %100 |
| 18 | M45 | Z | 0 | 0 | 0 | %100 |
| 19 | M48 | X | 7.84 | 7.84 | 0 | %100 |
| 20 | M48 | Z | 0 | 0 | 0 | %100 |
| 21 | M53 | X | 23.925 | 23.925 | 0 | %100 |
| 22 | M53 | Z | 0 | 0 | 0 | %100 |
| 23 | M54A | X | 23.925 | 23.925 | 0 | %100 |
| 24 | M54A | Z | 0 | 0 | 0 | %100 |
| 25 | M55 | X | 7.094 | 7.094 | 0 | %100 |
| 26 | M55 | Z | 0 | 0 | 0 | %100 |
| 27 | M56 | X | 7.094 | 7.094 | 0 | %100 |
| 28 | M56 | Z | 0 | 0 | 0 | %100 |
| 29 | M58 | X | 5.808 | 5.808 | 0 | %100 |
| 30 | M58 | Z | 0 | 0 | 0 | %100 |
| 31 | M59 | X | .917 | .917 | 0 | %100 |
| 32 | M59 | Z | 0 | 0 | 0 | %100 |
| 33 | M61 | X | .917 | .917 | 0 | %100 |
| 34 | M61 | Z | 0 | 0 | 0 | %100 |
| 35 | M62 | X | 5.808 | 5.808 | 0 | %100 |
| 36 | M62 | Z | 0 | 0 | 0 | %100 |
| 37 | M63 | X | 8.294 | 8.294 | 0 | %100 |
| 38 | M63 | Z | 0 | 0 | 0 | %100 |
| 39 | M64 | X | 7.84 | 7.84 | 0 | %100 |
| 40 | M64 | Z | 0 | 0 | 0 | %100 |
| 41 | M67 | X | 7.84 | 7.84 | 0 | %100 |
| 42 | M67 | Z | 0 | 0 | 0 | %100 |
| 43 | M72 | X | 23.925 | 23.925 | 0 | %100 |
| 44 | M72 | Z | 0 | 0 | 0 | %100 |
| 45 | M73 | X | 23.925 | 23.925 | 0 | %100 |
| 46 | M73 | Z | 0 | 0 | 0 | %100 |
| 47 | M74 | X | 7.094 | 7.094 | 0 | %100 |
| 48 | M74 | Z | 0 | 0 | 0 | %100 |
| 49 | M75 | X | 7.094 | 7.094 | 0 | %100 |
| 50 | M75 | Z | 0 | 0 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | 0 | 0 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | 0 | 0 | 0 | %100 |
| 55 | M48A | X | 5.219 | 5.219 | 0 | %100 |
| 56 | M48A | Z | 0 | 0 | 0 | %100 |
| 57 | MP2A | X | 11.037 | 11.037 | 0 | %100 |
| 58 | MP2A | Z | 0 | 0 | 0 | %100 |
| 59 | MP3A | X | 11.037 | 11.037 | 0 | %100 |
| 60 | MP3A | Z | 0 | 0 | 0 | %100 |
| 61 | MP4A | X | 10.984 | 10.984 | 0 | %100 |
| 62 | MP4A | Z | 0 | 0 | 0 | %100 |
| 63 | MP5A | X | 11.037 | 11.037 | 0 | %100 |
| 64 | MP5A | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 2.893 | 2.893 | 0 | %100 |
| 2 | M51 | Z | 1.67 | 1.67 | 0 | %100 |
| 3 | M54 | X | 2.893 | 2.893 | 0 | %100 |
| 4 | M54 | Z | 1.67 | 1.67 | 0 | %100 |
| 5 | MP1A | X | 9.559 | 9.559 | 0 | %100 |
| 6 | MP1A | Z | 5.519 | 5.519 | 0 | %100 |
| 7 | M39 | X | 9.038 | 9.038 | 0 | %100 |
| 8 | M39 | Z | 5.218 | 5.218 | 0 | %100 |
| 9 | M40 | X | 1.427 | 1.427 | 0 | %100 |
| 10 | M40 | Z | .824 | .824 | 0 | %100 |
| 11 | M42 | X | 1.427 | 1.427 | 0 | %100 |
| 12 | M42 | Z | .824 | .824 | 0 | %100 |
| 13 | M43 | X | 9.038 | 9.038 | 0 | %100 |
| 14 | M43 | Z | 5.218 | 5.218 | 0 | %100 |
| 15 | M44 | X | 7.183 | 7.183 | 0 | %100 |
| 16 | M44 | Z | 4.147 | 4.147 | 0 | %100 |
| 17 | M45 | X | 6.79 | 6.79 | 0 | %100 |
| 18 | M45 | Z | 3.92 | 3.92 | 0 | %100 |
| 19 | M48 | X | 6.79 | 6.79 | 0 | %100 |
| 20 | M48 | Z | 3.92 | 3.92 | 0 | %100 |
| 21 | M53 | X | 15.917 | 15.917 | 0 | %100 |
| 22 | M53 | Z | 9.19 | 9.19 | 0 | %100 |
| 23 | M54A | X | 15.917 | 15.917 | 0 | %100 |
| 24 | M54A | Z | 9.19 | 9.19 | 0 | %100 |
| 25 | M55 | X | 7.39 | 7.39 | 0 | %100 |
| 26 | M55 | Z | 4.267 | 4.267 | 0 | %100 |
| 27 | M56 | X | 7.39 | 7.39 | 0 | %100 |
| 28 | M56 | Z | 4.267 | 4.267 | 0 | %100 |
| 29 | M58 | X | .771 | .771 | 0 | %100 |
| 30 | M58 | Z | .445 | .445 | 0 | %100 |
| 31 | M59 | X | .122 | .122 | 0 | %100 |
| 32 | M59 | Z | .07 | .07 | 0 | %100 |
| 33 | M61 | X | .122 | .122 | 0 | %100 |
| 34 | M61 | Z | .07 | .07 | 0 | %100 |
| 35 | M62 | X | .771 | .771 | 0 | %100 |
| 36 | M62 | Z | .445 | .445 | 0 | %100 |
| 37 | M63 | X | 7.183 | 7.183 | 0 | %100 |
| 38 | M63 | Z | 4.147 | 4.147 | 0 | %100 |
| 39 | M64 | X | 6.79 | 6.79 | 0 | %100 |
| 40 | M64 | Z | 3.92 | 3.92 | 0 | %100 |
| 41 | M67 | X | 6.79 | 6.79 | 0 | %100 |
| 42 | M67 | Z | 3.92 | 3.92 | 0 | %100 |
| 43 | M72 | X | 15.917 | 15.917 | 0 | %100 |
| 44 | M72 | Z | 9.19 | 9.19 | 0 | %100 |
| 45 | M73 | X | 15.917 | 15.917 | 0 | %100 |
| 46 | M73 | Z | 9.19 | 9.19 | 0 | %100 |
| 47 | M74 | X | 4.82 | 4.82 | 0 | %100 |
| 48 | M74 | Z | 2.783 | 2.783 | 0 | %100 |
| 49 | M75 | X | 4.82 | 4.82 | 0 | %100 |
| 50 | M75 | Z | 2.783 | 2.783 | 0 | %100 |
| 51 | M76 | X | 4.025 | 4.025 | 0 | %100 |
| 52 | M76 | Z | 2.324 | 2.324 | 0 | %100 |
| 53 | M46A | X | 4.025 | 4.025 | 0 | %100 |
| 54 | M46A | Z | 2.324 | 2.324 | 0 | %100 |
| 55 | M48A | X | .264 | .264 | 0 | %100 |
| 56 | M48A | Z | .152 | .152 | 0 | %100 |
| 57 | MP2A | X | 9.559 | 9.559 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 58 | MP2A | Z | 5.519 | 5.519 | 0 %100 |
| 59 | MP3A | X | 9.559 | 9.559 | 0 %100 |
| 60 | MP3A | Z | 5.519 | 5.519 | 0 %100 |
| 61 | MP4A | X | 9.512 | 9.512 | 0 %100 |
| 62 | MP4A | Z | 5.492 | 5.492 | 0 %100 |
| 63 | MP5A | X | 9.559 | 9.559 | 0 %100 |
| 64 | MP5A | Z | 5.519 | 5.519 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 5.01 | 5.01 | 0 %100 |
| 2 | M51 | Z | 8.678 | 8.678 | 0 %100 |
| 3 | M54 | X | 5.01 | 5.01 | 0 %100 |
| 4 | M54 | Z | 8.678 | 8.678 | 0 %100 |
| 5 | MP1A | X | 5.519 | 5.519 | 0 %100 |
| 6 | MP1A | Z | 9.559 | 9.559 | 0 %100 |
| 7 | M39 | X | 5.074 | 5.074 | 0 %100 |
| 8 | M39 | Z | 8.788 | 8.788 | 0 %100 |
| 9 | M40 | X | .801 | .801 | 0 %100 |
| 10 | M40 | Z | 1.388 | 1.388 | 0 %100 |
| 11 | M42 | X | .801 | .801 | 0 %100 |
| 12 | M42 | Z | 1.388 | 1.388 | 0 %100 |
| 13 | M43 | X | 5.074 | 5.074 | 0 %100 |
| 14 | M43 | Z | 8.788 | 8.788 | 0 %100 |
| 15 | M44 | X | 4.147 | 4.147 | 0 %100 |
| 16 | M44 | Z | 7.183 | 7.183 | 0 %100 |
| 17 | M45 | X | 3.92 | 3.92 | 0 %100 |
| 18 | M45 | Z | 6.79 | 6.79 | 0 %100 |
| 19 | M48 | X | 3.92 | 3.92 | 0 %100 |
| 20 | M48 | Z | 6.79 | 6.79 | 0 %100 |
| 21 | M53 | X | 3.644 | 3.644 | 0 %100 |
| 22 | M53 | Z | 6.312 | 6.312 | 0 %100 |
| 23 | M54A | X | 3.644 | 3.644 | 0 %100 |
| 24 | M54A | Z | 6.312 | 6.312 | 0 %100 |
| 25 | M55 | X | 4.222 | 4.222 | 0 %100 |
| 26 | M55 | Z | 7.312 | 7.312 | 0 %100 |
| 27 | M56 | X | 4.222 | 4.222 | 0 %100 |
| 28 | M56 | Z | 7.312 | 7.312 | 0 %100 |
| 29 | M58 | X | .301 | .301 | 0 %100 |
| 30 | M58 | Z | .521 | .521 | 0 %100 |
| 31 | M59 | X | .047 | .047 | 0 %100 |
| 32 | M59 | Z | .082 | .082 | 0 %100 |
| 33 | M61 | X | .047 | .047 | 0 %100 |
| 34 | M61 | Z | .082 | .082 | 0 %100 |
| 35 | M62 | X | .301 | .301 | 0 %100 |
| 36 | M62 | Z | .521 | .521 | 0 %100 |
| 37 | M63 | X | 4.147 | 4.147 | 0 %100 |
| 38 | M63 | Z | 7.183 | 7.183 | 0 %100 |
| 39 | M64 | X | 3.92 | 3.92 | 0 %100 |
| 40 | M64 | Z | 6.79 | 6.79 | 0 %100 |
| 41 | M67 | X | 3.92 | 3.92 | 0 %100 |
| 42 | M67 | Z | 6.79 | 6.79 | 0 %100 |
| 43 | M72 | X | 3.644 | 3.644 | 0 %100 |
| 44 | M72 | Z | 6.312 | 6.312 | 0 %100 |
| 45 | M73 | X | 3.644 | 3.644 | 0 %100 |
| 46 | M73 | Z | 6.312 | 6.312 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 47 | M74 | X | 2.738 | 2.738 | 0 | %100 |
| 48 | M74 | Z | 4.742 | 4.742 | 0 | %100 |
| 49 | M75 | X | 2.738 | 2.738 | 0 | %100 |
| 50 | M75 | Z | 4.742 | 4.742 | 0 | %100 |
| 51 | M76 | X | 6.971 | 6.971 | 0 | %100 |
| 52 | M76 | Z | 12.074 | 12.074 | 0 | %100 |
| 53 | M46A | X | 6.971 | 6.971 | 0 | %100 |
| 54 | M46A | Z | 12.074 | 12.074 | 0 | %100 |
| 55 | M48A | X | .883 | .883 | 0 | %100 |
| 56 | M48A | Z | 1.529 | 1.529 | 0 | %100 |
| 57 | MP2A | X | 5.519 | 5.519 | 0 | %100 |
| 58 | MP2A | Z | 9.559 | 9.559 | 0 | %100 |
| 59 | MP3A | X | 5.519 | 5.519 | 0 | %100 |
| 60 | MP3A | Z | 9.559 | 9.559 | 0 | %100 |
| 61 | MP4A | X | 5.492 | 5.492 | 0 | %100 |
| 62 | MP4A | Z | 9.512 | 9.512 | 0 | %100 |
| 63 | MP5A | X | 5.519 | 5.519 | 0 | %100 |
| 64 | MP5A | Z | 9.559 | 9.559 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 1 | M51 | X | 0 | 0 | 0 | %100 |
| 2 | M51 | Z | 13.361 | 13.361 | 0 | %100 |
| 3 | M54 | X | 0 | 0 | 0 | %100 |
| 4 | M54 | Z | 13.361 | 13.361 | 0 | %100 |
| 5 | MP1A | X | 0 | 0 | 0 | %100 |
| 6 | MP1A | Z | 11.037 | 11.037 | 0 | %100 |
| 7 | M39 | X | 0 | 0 | 0 | %100 |
| 8 | M39 | Z | 5.23 | 5.23 | 0 | %100 |
| 9 | M40 | X | 0 | 0 | 0 | %100 |
| 10 | M40 | Z | .826 | .826 | 0 | %100 |
| 11 | M42 | X | 0 | 0 | 0 | %100 |
| 12 | M42 | Z | .826 | .826 | 0 | %100 |
| 13 | M43 | X | 0 | 0 | 0 | %100 |
| 14 | M43 | Z | 5.23 | 5.23 | 0 | %100 |
| 15 | M44 | X | 0 | 0 | 0 | %100 |
| 16 | M44 | Z | 8.294 | 8.294 | 0 | %100 |
| 17 | M45 | X | 0 | 0 | 0 | %100 |
| 18 | M45 | Z | 7.84 | 7.84 | 0 | %100 |
| 19 | M48 | X | 0 | 0 | 0 | %100 |
| 20 | M48 | Z | 7.84 | 7.84 | 0 | %100 |
| 21 | M53 | X | 0 | 0 | 0 | %100 |
| 22 | M53 | Z | 1.743 | 1.743 | 0 | %100 |
| 23 | M54A | X | 0 | 0 | 0 | %100 |
| 24 | M54A | Z | 1.743 | 1.743 | 0 | %100 |
| 25 | M55 | X | 0 | 0 | 0 | %100 |
| 26 | M55 | Z | 6.915 | 6.915 | 0 | %100 |
| 27 | M56 | X | 0 | 0 | 0 | %100 |
| 28 | M56 | Z | 6.915 | 6.915 | 0 | %100 |
| 29 | M58 | X | 0 | 0 | 0 | %100 |
| 30 | M58 | Z | 5.23 | 5.23 | 0 | %100 |
| 31 | M59 | X | 0 | 0 | 0 | %100 |
| 32 | M59 | Z | .826 | .826 | 0 | %100 |
| 33 | M61 | X | 0 | 0 | 0 | %100 |
| 34 | M61 | Z | .826 | .826 | 0 | %100 |
| 35 | M62 | X | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 36 | M62 | Z | 5.23 | 5.23 | 0 %100 |
| 37 | M63 | X | 0 | 0 | 0 %100 |
| 38 | M63 | Z | 8.294 | 8.294 | 0 %100 |
| 39 | M64 | X | 0 | 0 | 0 %100 |
| 40 | M64 | Z | 7.84 | 7.84 | 0 %100 |
| 41 | M67 | X | 0 | 0 | 0 %100 |
| 42 | M67 | Z | 7.84 | 7.84 | 0 %100 |
| 43 | M72 | X | 0 | 0 | 0 %100 |
| 44 | M72 | Z | 1.743 | 1.743 | 0 %100 |
| 45 | M73 | X | 0 | 0 | 0 %100 |
| 46 | M73 | Z | 1.743 | 1.743 | 0 %100 |
| 47 | M74 | X | 0 | 0 | 0 %100 |
| 48 | M74 | Z | 6.915 | 6.915 | 0 %100 |
| 49 | M75 | X | 0 | 0 | 0 %100 |
| 50 | M75 | Z | 6.915 | 6.915 | 0 %100 |
| 51 | M76 | X | 0 | 0 | 0 %100 |
| 52 | M76 | Z | 18.589 | 18.589 | 0 %100 |
| 53 | M46A | X | 0 | 0 | 0 %100 |
| 54 | M46A | Z | 18.589 | 18.589 | 0 %100 |
| 55 | M48A | X | 0 | 0 | 0 %100 |
| 56 | M48A | Z | 8.142 | 8.142 | 0 %100 |
| 57 | MP2A | X | 0 | 0 | 0 %100 |
| 58 | MP2A | Z | 11.037 | 11.037 | 0 %100 |
| 59 | MP3A | X | 0 | 0 | 0 %100 |
| 60 | MP3A | Z | 11.037 | 11.037 | 0 %100 |
| 61 | MP4A | X | 0 | 0 | 0 %100 |
| 62 | MP4A | Z | 10.984 | 10.984 | 0 %100 |
| 63 | MP5A | X | 0 | 0 | 0 %100 |
| 64 | MP5A | Z | 11.037 | 11.037 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -5.01 | -5.01 | 0 %100 |
| 2 | M51 | Z | 8.678 | 8.678 | 0 %100 |
| 3 | M54 | X | -5.01 | -5.01 | 0 %100 |
| 4 | M54 | Z | 8.678 | 8.678 | 0 %100 |
| 5 | MP1A | X | -5.519 | -5.519 | 0 %100 |
| 6 | MP1A | Z | 9.559 | 9.559 | 0 %100 |
| 7 | M39 | X | -.301 | -.301 | 0 %100 |
| 8 | M39 | Z | .521 | .521 | 0 %100 |
| 9 | M40 | X | -.047 | -.047 | 0 %100 |
| 10 | M40 | Z | .082 | .082 | 0 %100 |
| 11 | M42 | X | -.047 | -.047 | 0 %100 |
| 12 | M42 | Z | .082 | .082 | 0 %100 |
| 13 | M43 | X | -.301 | -.301 | 0 %100 |
| 14 | M43 | Z | .521 | .521 | 0 %100 |
| 15 | M44 | X | -4.147 | -4.147 | 0 %100 |
| 16 | M44 | Z | 7.183 | 7.183 | 0 %100 |
| 17 | M45 | X | -3.92 | -3.92 | 0 %100 |
| 18 | M45 | Z | 6.79 | 6.79 | 0 %100 |
| 19 | M48 | X | -3.92 | -3.92 | 0 %100 |
| 20 | M48 | Z | 6.79 | 6.79 | 0 %100 |
| 21 | M53 | X | -3.644 | -3.644 | 0 %100 |
| 22 | M53 | Z | 6.312 | 6.312 | 0 %100 |
| 23 | M54A | X | -3.644 | -3.644 | 0 %100 |
| 24 | M54A | Z | 6.312 | 6.312 | 0 %100 |



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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 60 | MP3A | Z | 0 | 0 | %100 | |
| 61 | MP4A | X | -10.984 | -10.984 | 0 | %100 |
| 62 | MP4A | Z | 0 | 0 | 0 | %100 |
| 63 | MP5A | X | -11.037 | -11.037 | 0 | %100 |
| 64 | MP5A | Z | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 1 | M51 | X | -2.893 | -2.893 | 0 | %100 |
| 2 | M51 | Z | -1.67 | -1.67 | 0 | %100 |
| 3 | M54 | X | -2.893 | -2.893 | 0 | %100 |
| 4 | M54 | Z | -1.67 | -1.67 | 0 | %100 |
| 5 | MP1A | X | -9.559 | -9.559 | 0 | %100 |
| 6 | MP1A | Z | -5.519 | -5.519 | 0 | %100 |
| 7 | M39 | X | -9.038 | -9.038 | 0 | %100 |
| 8 | M39 | Z | -5.218 | -5.218 | 0 | %100 |
| 9 | M40 | X | -1.427 | -1.427 | 0 | %100 |
| 10 | M40 | Z | -.824 | -.824 | 0 | %100 |
| 11 | M42 | X | -1.427 | -1.427 | 0 | %100 |
| 12 | M42 | Z | -.824 | -.824 | 0 | %100 |
| 13 | M43 | X | -9.038 | -9.038 | 0 | %100 |
| 14 | M43 | Z | -5.218 | -5.218 | 0 | %100 |
| 15 | M44 | X | -7.183 | -7.183 | 0 | %100 |
| 16 | M44 | Z | -4.147 | -4.147 | 0 | %100 |
| 17 | M45 | X | -6.79 | -6.79 | 0 | %100 |
| 18 | M45 | Z | -3.92 | -3.92 | 0 | %100 |
| 19 | M48 | X | -6.79 | -6.79 | 0 | %100 |
| 20 | M48 | Z | -3.92 | -3.92 | 0 | %100 |
| 21 | M53 | X | -15.917 | -15.917 | 0 | %100 |
| 22 | M53 | Z | -9.19 | -9.19 | 0 | %100 |
| 23 | M54A | X | -15.917 | -15.917 | 0 | %100 |
| 24 | M54A | Z | -9.19 | -9.19 | 0 | %100 |
| 25 | M55 | X | -7.39 | -7.39 | 0 | %100 |
| 26 | M55 | Z | -4.267 | -4.267 | 0 | %100 |
| 27 | M56 | X | -7.39 | -7.39 | 0 | %100 |
| 28 | M56 | Z | -4.267 | -4.267 | 0 | %100 |
| 29 | M58 | X | -.771 | -.771 | 0 | %100 |
| 30 | M58 | Z | -.445 | -.445 | 0 | %100 |
| 31 | M59 | X | -.122 | -.122 | 0 | %100 |
| 32 | M59 | Z | -.07 | -.07 | 0 | %100 |
| 33 | M61 | X | -.122 | -.122 | 0 | %100 |
| 34 | M61 | Z | -.07 | -.07 | 0 | %100 |
| 35 | M62 | X | -.771 | -.771 | 0 | %100 |
| 36 | M62 | Z | -.445 | -.445 | 0 | %100 |
| 37 | M63 | X | -7.183 | -7.183 | 0 | %100 |
| 38 | M63 | Z | -4.147 | -4.147 | 0 | %100 |
| 39 | M64 | X | -6.79 | -6.79 | 0 | %100 |
| 40 | M64 | Z | -3.92 | -3.92 | 0 | %100 |
| 41 | M67 | X | -6.79 | -6.79 | 0 | %100 |
| 42 | M67 | Z | -3.92 | -3.92 | 0 | %100 |
| 43 | M72 | X | -15.917 | -15.917 | 0 | %100 |
| 44 | M72 | Z | -9.19 | -9.19 | 0 | %100 |
| 45 | M73 | X | -15.917 | -15.917 | 0 | %100 |
| 46 | M73 | Z | -9.19 | -9.19 | 0 | %100 |
| 47 | M74 | X | -4.82 | -4.82 | 0 | %100 |
| 48 | M74 | Z | -2.783 | -2.783 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,kSF] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 49 | M75 | X | -4.82 | -4.82 | 0 | %100 |
| 50 | M75 | Z | -2.783 | -2.783 | 0 | %100 |
| 51 | M76 | X | -4.025 | -4.025 | 0 | %100 |
| 52 | M76 | Z | -2.324 | -2.324 | 0 | %100 |
| 53 | M46A | X | -4.025 | -4.025 | 0 | %100 |
| 54 | M46A | Z | -2.324 | -2.324 | 0 | %100 |
| 55 | M48A | X | -.264 | -.264 | 0 | %100 |
| 56 | M48A | Z | -.152 | -.152 | 0 | %100 |
| 57 | MP2A | X | -9.559 | -9.559 | 0 | %100 |
| 58 | MP2A | Z | -5.519 | -5.519 | 0 | %100 |
| 59 | MP3A | X | -9.559 | -9.559 | 0 | %100 |
| 60 | MP3A | Z | -5.519 | -5.519 | 0 | %100 |
| 61 | MP4A | X | -9.512 | -9.512 | 0 | %100 |
| 62 | MP4A | Z | -5.492 | -5.492 | 0 | %100 |
| 63 | MP5A | X | -9.559 | -9.559 | 0 | %100 |
| 64 | MP5A | Z | -5.519 | -5.519 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,kSF] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 1 | M51 | X | -5.01 | -5.01 | 0 | %100 |
| 2 | M51 | Z | -8.678 | -8.678 | 0 | %100 |
| 3 | M54 | X | -5.01 | -5.01 | 0 | %100 |
| 4 | M54 | Z | -8.678 | -8.678 | 0 | %100 |
| 5 | MP1A | X | -5.519 | -5.519 | 0 | %100 |
| 6 | MP1A | Z | -9.559 | -9.559 | 0 | %100 |
| 7 | M39 | X | -5.074 | -5.074 | 0 | %100 |
| 8 | M39 | Z | -8.788 | -8.788 | 0 | %100 |
| 9 | M40 | X | -.801 | -.801 | 0 | %100 |
| 10 | M40 | Z | -1.388 | -1.388 | 0 | %100 |
| 11 | M42 | X | -.801 | -.801 | 0 | %100 |
| 12 | M42 | Z | -1.388 | -1.388 | 0 | %100 |
| 13 | M43 | X | -5.074 | -5.074 | 0 | %100 |
| 14 | M43 | Z | -8.788 | -8.788 | 0 | %100 |
| 15 | M44 | X | -4.147 | -4.147 | 0 | %100 |
| 16 | M44 | Z | -7.183 | -7.183 | 0 | %100 |
| 17 | M45 | X | -3.92 | -3.92 | 0 | %100 |
| 18 | M45 | Z | -6.79 | -6.79 | 0 | %100 |
| 19 | M48 | X | -3.92 | -3.92 | 0 | %100 |
| 20 | M48 | Z | -6.79 | -6.79 | 0 | %100 |
| 21 | M53 | X | -3.644 | -3.644 | 0 | %100 |
| 22 | M53 | Z | -6.312 | -6.312 | 0 | %100 |
| 23 | M54A | X | -3.644 | -3.644 | 0 | %100 |
| 24 | M54A | Z | -6.312 | -6.312 | 0 | %100 |
| 25 | M55 | X | -4.222 | -4.222 | 0 | %100 |
| 26 | M55 | Z | -7.312 | -7.312 | 0 | %100 |
| 27 | M56 | X | -4.222 | -4.222 | 0 | %100 |
| 28 | M56 | Z | -7.312 | -7.312 | 0 | %100 |
| 29 | M58 | X | -.301 | -.301 | 0 | %100 |
| 30 | M58 | Z | -.521 | -.521 | 0 | %100 |
| 31 | M59 | X | -.047 | -.047 | 0 | %100 |
| 32 | M59 | Z | -.082 | -.082 | 0 | %100 |
| 33 | M61 | X | -.047 | -.047 | 0 | %100 |
| 34 | M61 | Z | -.082 | -.082 | 0 | %100 |
| 35 | M62 | X | -.301 | -.301 | 0 | %100 |
| 36 | M62 | Z | -.521 | -.521 | 0 | %100 |
| 37 | M63 | X | -4.147 | -4.147 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/f.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|---------------------------|----------------------|--------------------|
| 38 | M63 | Z | -7.183 | -7.183 | 0 %100 |
| 39 | M64 | X | -3.92 | -3.92 | 0 %100 |
| 40 | M64 | Z | -6.79 | -6.79 | 0 %100 |
| 41 | M67 | X | -3.92 | -3.92 | 0 %100 |
| 42 | M67 | Z | -6.79 | -6.79 | 0 %100 |
| 43 | M72 | X | -3.644 | -3.644 | 0 %100 |
| 44 | M72 | Z | -6.312 | -6.312 | 0 %100 |
| 45 | M73 | X | -3.644 | -3.644 | 0 %100 |
| 46 | M73 | Z | -6.312 | -6.312 | 0 %100 |
| 47 | M74 | X | -2.738 | -2.738 | 0 %100 |
| 48 | M74 | Z | -4.742 | -4.742 | 0 %100 |
| 49 | M75 | X | -2.738 | -2.738 | 0 %100 |
| 50 | M75 | Z | -4.742 | -4.742 | 0 %100 |
| 51 | M76 | X | -6.971 | -6.971 | 0 %100 |
| 52 | M76 | Z | -12.074 | -12.074 | 0 %100 |
| 53 | M46A | X | -6.971 | -6.971 | 0 %100 |
| 54 | M46A | Z | -12.074 | -12.074 | 0 %100 |
| 55 | M48A | X | -883 | -883 | 0 %100 |
| 56 | M48A | Z | -1.529 | -1.529 | 0 %100 |
| 57 | MP2A | X | -5.519 | -5.519 | 0 %100 |
| 58 | MP2A | Z | -9.559 | -9.559 | 0 %100 |
| 59 | MP3A | X | -5.519 | -5.519 | 0 %100 |
| 60 | MP3A | Z | -9.559 | -9.559 | 0 %100 |
| 61 | MP4A | X | -5.492 | -5.492 | 0 %100 |
| 62 | MP4A | Z | -9.512 | -9.512 | 0 %100 |
| 63 | MP5A | X | -5.519 | -5.519 | 0 %100 |
| 64 | MP5A | Z | -9.559 | -9.559 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/f.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|---------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 %100 |
| 2 | M51 | Z | -3.789 | -3.789 | 0 %100 |
| 3 | M54 | X | 0 | 0 | 0 %100 |
| 4 | M54 | Z | -3.789 | -3.789 | 0 %100 |
| 5 | MP1A | X | 0 | 0 | 0 %100 |
| 6 | MP1A | Z | -3.423 | -3.423 | 0 %100 |
| 7 | M39 | X | 0 | 0 | 0 %100 |
| 8 | M39 | Z | -1.622 | -1.622 | 0 %100 |
| 9 | M40 | X | 0 | 0 | 0 %100 |
| 10 | M40 | Z | -596 | -596 | 0 %100 |
| 11 | M42 | X | 0 | 0 | 0 %100 |
| 12 | M42 | Z | -596 | -596 | 0 %100 |
| 13 | M43 | X | 0 | 0 | 0 %100 |
| 14 | M43 | Z | -1.622 | -1.622 | 0 %100 |
| 15 | M44 | X | 0 | 0 | 0 %100 |
| 16 | M44 | Z | -2.584 | -2.584 | 0 %100 |
| 17 | M45 | X | 0 | 0 | 0 %100 |
| 18 | M45 | Z | -2.627 | -2.627 | 0 %100 |
| 19 | M48 | X | 0 | 0 | 0 %100 |
| 20 | M48 | Z | -2.627 | -2.627 | 0 %100 |
| 21 | M53 | X | 0 | 0 | 0 %100 |
| 22 | M53 | Z | -1.257 | -1.257 | 0 %100 |
| 23 | M54A | X | 0 | 0 | 0 %100 |
| 24 | M54A | Z | -1.257 | -1.257 | 0 %100 |
| 25 | M55 | X | 0 | 0 | 0 %100 |
| 26 | M55 | Z | -2.303 | -2.303 | 0 %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 27 | M56 | X | 0 | 0 | 0 | %100 |
| 28 | M56 | Z | -2.303 | -2.303 | 0 | %100 |
| 29 | M58 | X | 0 | 0 | 0 | %100 |
| 30 | M58 | Z | -1.622 | -1.622 | 0 | %100 |
| 31 | M59 | X | 0 | 0 | 0 | %100 |
| 32 | M59 | Z | -.596 | -.596 | 0 | %100 |
| 33 | M61 | X | 0 | 0 | 0 | %100 |
| 34 | M61 | Z | -.596 | -.596 | 0 | %100 |
| 35 | M62 | X | 0 | 0 | 0 | %100 |
| 36 | M62 | Z | -1.622 | -1.622 | 0 | %100 |
| 37 | M63 | X | 0 | 0 | 0 | %100 |
| 38 | M63 | Z | -2.584 | -2.584 | 0 | %100 |
| 39 | M64 | X | 0 | 0 | 0 | %100 |
| 40 | M64 | Z | -2.627 | -2.627 | 0 | %100 |
| 41 | M67 | X | 0 | 0 | 0 | %100 |
| 42 | M67 | Z | -2.627 | -2.627 | 0 | %100 |
| 43 | M72 | X | 0 | 0 | 0 | %100 |
| 44 | M72 | Z | -1.257 | -1.257 | 0 | %100 |
| 45 | M73 | X | 0 | 0 | 0 | %100 |
| 46 | M73 | Z | -1.257 | -1.257 | 0 | %100 |
| 47 | M74 | X | 0 | 0 | 0 | %100 |
| 48 | M74 | Z | -2.303 | -2.303 | 0 | %100 |
| 49 | M75 | X | 0 | 0 | 0 | %100 |
| 50 | M75 | Z | -2.303 | -2.303 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | -3.951 | -3.951 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | -3.951 | -3.951 | 0 | %100 |
| 55 | M48A | X | 0 | 0 | 0 | %100 |
| 56 | M48A | Z | -2.309 | -2.309 | 0 | %100 |
| 57 | MP2A | X | 0 | 0 | 0 | %100 |
| 58 | MP2A | Z | -3.423 | -3.423 | 0 | %100 |
| 59 | MP3A | X | 0 | 0 | 0 | %100 |
| 60 | MP3A | Z | -3.423 | -3.423 | 0 | %100 |
| 61 | MP4A | X | 0 | 0 | 0 | %100 |
| 62 | MP4A | Z | -3.414 | -3.414 | 0 | %100 |
| 63 | MP5A | X | 0 | 0 | 0 | %100 |
| 64 | MP5A | Z | -3.423 | -3.423 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 1.421 | 1.421 | 0 | %100 |
| 2 | M51 | Z | -2.461 | -2.461 | 0 | %100 |
| 3 | M54 | X | 1.421 | 1.421 | 0 | %100 |
| 4 | M54 | Z | -2.461 | -2.461 | 0 | %100 |
| 5 | MP1A | X | 1.711 | 1.711 | 0 | %100 |
| 6 | MP1A | Z | -2.964 | -2.964 | 0 | %100 |
| 7 | M39 | X | .093 | .093 | 0 | %100 |
| 8 | M39 | Z | -.162 | -.162 | 0 | %100 |
| 9 | M40 | X | .034 | .034 | 0 | %100 |
| 10 | M40 | Z | -.059 | -.059 | 0 | %100 |
| 11 | M42 | X | .034 | .034 | 0 | %100 |
| 12 | M42 | Z | -.059 | -.059 | 0 | %100 |
| 13 | M43 | X | .093 | .093 | 0 | %100 |
| 14 | M43 | Z | -.162 | -.162 | 0 | %100 |
| 15 | M44 | X | 1.292 | 1.292 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 16 | M44 | Z | -2.237 | -2.237 | 0 | %100 |
| 17 | M45 | X | 1.314 | 1.314 | 0 | %100 |
| 18 | M45 | Z | -2.275 | -2.275 | 0 | %100 |
| 19 | M48 | X | 1.314 | 1.314 | 0 | %100 |
| 20 | M48 | Z | -2.275 | -2.275 | 0 | %100 |
| 21 | M53 | X | 1.065 | 1.065 | 0 | %100 |
| 22 | M53 | Z | -1.845 | -1.845 | 0 | %100 |
| 23 | M54A | X | 1.065 | 1.065 | 0 | %100 |
| 24 | M54A | Z | -1.845 | -1.845 | 0 | %100 |
| 25 | M55 | X | .912 | .912 | 0 | %100 |
| 26 | M55 | Z | -1.579 | -1.579 | 0 | %100 |
| 27 | M56 | X | .912 | .912 | 0 | %100 |
| 28 | M56 | Z | -1.579 | -1.579 | 0 | %100 |
| 29 | M58 | X | 1.573 | 1.573 | 0 | %100 |
| 30 | M58 | Z | -2.725 | -2.725 | 0 | %100 |
| 31 | M59 | X | .578 | .578 | 0 | %100 |
| 32 | M59 | Z | -1.001 | -1.001 | 0 | %100 |
| 33 | M61 | X | .578 | .578 | 0 | %100 |
| 34 | M61 | Z | -1.001 | -1.001 | 0 | %100 |
| 35 | M62 | X | 1.573 | 1.573 | 0 | %100 |
| 36 | M62 | Z | -2.725 | -2.725 | 0 | %100 |
| 37 | M63 | X | 1.292 | 1.292 | 0 | %100 |
| 38 | M63 | Z | -2.237 | -2.237 | 0 | %100 |
| 39 | M64 | X | 1.314 | 1.314 | 0 | %100 |
| 40 | M64 | Z | -2.275 | -2.275 | 0 | %100 |
| 41 | M67 | X | 1.314 | 1.314 | 0 | %100 |
| 42 | M67 | Z | -2.275 | -2.275 | 0 | %100 |
| 43 | M72 | X | 1.065 | 1.065 | 0 | %100 |
| 44 | M72 | Z | -1.845 | -1.845 | 0 | %100 |
| 45 | M73 | X | 1.065 | 1.065 | 0 | %100 |
| 46 | M73 | Z | -1.845 | -1.845 | 0 | %100 |
| 47 | M74 | X | 1.406 | 1.406 | 0 | %100 |
| 48 | M74 | Z | -2.436 | -2.436 | 0 | %100 |
| 49 | M75 | X | 1.406 | 1.406 | 0 | %100 |
| 50 | M75 | Z | -2.436 | -2.436 | 0 | %100 |
| 51 | M76 | X | 1.482 | 1.482 | 0 | %100 |
| 52 | M76 | Z | -2.566 | -2.566 | 0 | %100 |
| 53 | M46A | X | 1.482 | 1.482 | 0 | %100 |
| 54 | M46A | Z | -2.566 | -2.566 | 0 | %100 |
| 55 | M48A | X | 1.851 | 1.851 | 0 | %100 |
| 56 | M48A | Z | -3.206 | -3.206 | 0 | %100 |
| 57 | MP2A | X | 1.711 | 1.711 | 0 | %100 |
| 58 | MP2A | Z | -2.964 | -2.964 | 0 | %100 |
| 59 | MP3A | X | 1.711 | 1.711 | 0 | %100 |
| 60 | MP3A | Z | -2.964 | -2.964 | 0 | %100 |
| 61 | MP4A | X | 1.707 | 1.707 | 0 | %100 |
| 62 | MP4A | Z | -2.957 | -2.957 | 0 | %100 |
| 63 | MP5A | X | 1.711 | 1.711 | 0 | %100 |
| 64 | MP5A | Z | -2.964 | -2.964 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|---|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | .82 | .82 | 0 | %100 |
| 2 | M51 | Z | -.474 | -.474 | 0 | %100 |
| 3 | M54 | X | .82 | .82 | 0 | %100 |
| 4 | M54 | Z | -.474 | -.474 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | 0 | 0 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | 0 | 0 | 0 | %100 |
| 55 | M48A | X | 1.48 | 1.48 | 0 | %100 |
| 56 | M48A | Z | 0 | 0 | 0 | %100 |
| 57 | MP2A | X | 3.423 | 3.423 | 0 | %100 |
| 58 | MP2A | Z | 0 | 0 | 0 | %100 |
| 59 | MP3A | X | 3.423 | 3.423 | 0 | %100 |
| 60 | MP3A | Z | 0 | 0 | 0 | %100 |
| 61 | MP4A | X | 3.414 | 3.414 | 0 | %100 |
| 62 | MP4A | Z | 0 | 0 | 0 | %100 |
| 63 | MP5A | X | 3.423 | 3.423 | 0 | %100 |
| 64 | MP5A | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | .82 | .82 | 0 | %100 |
| 2 | M51 | Z | .474 | .474 | 0 | %100 |
| 3 | M54 | X | .82 | .82 | 0 | %100 |
| 4 | M54 | Z | .474 | .474 | 0 | %100 |
| 5 | MP1A | X | 2.964 | 2.964 | 0 | %100 |
| 6 | MP1A | Z | 1.711 | 1.711 | 0 | %100 |
| 7 | M39 | X | 2.803 | 2.803 | 0 | %100 |
| 8 | M39 | Z | 1.618 | 1.618 | 0 | %100 |
| 9 | M40 | X | 1.029 | 1.029 | 0 | %100 |
| 10 | M40 | Z | .594 | .594 | 0 | %100 |
| 11 | M42 | X | 1.029 | 1.029 | 0 | %100 |
| 12 | M42 | Z | .594 | .594 | 0 | %100 |
| 13 | M43 | X | 2.803 | 2.803 | 0 | %100 |
| 14 | M43 | Z | 1.618 | 1.618 | 0 | %100 |
| 15 | M44 | X | 2.237 | 2.237 | 0 | %100 |
| 16 | M44 | Z | 1.292 | 1.292 | 0 | %100 |
| 17 | M45 | X | 2.275 | 2.275 | 0 | %100 |
| 18 | M45 | Z | 1.314 | 1.314 | 0 | %100 |
| 19 | M48 | X | 2.275 | 2.275 | 0 | %100 |
| 20 | M48 | Z | 1.314 | 1.314 | 0 | %100 |
| 21 | M53 | X | 3.358 | 3.358 | 0 | %100 |
| 22 | M53 | Z | 1.939 | 1.939 | 0 | %100 |
| 23 | M54A | X | 3.358 | 3.358 | 0 | %100 |
| 24 | M54A | Z | 1.939 | 1.939 | 0 | %100 |
| 25 | M55 | X | 2.461 | 2.461 | 0 | %100 |
| 26 | M55 | Z | 1.421 | 1.421 | 0 | %100 |
| 27 | M56 | X | 2.461 | 2.461 | 0 | %100 |
| 28 | M56 | Z | 1.421 | 1.421 | 0 | %100 |
| 29 | M58 | X | .239 | .239 | 0 | %100 |
| 30 | M58 | Z | .138 | .138 | 0 | %100 |
| 31 | M59 | X | .088 | .088 | 0 | %100 |
| 32 | M59 | Z | .051 | .051 | 0 | %100 |
| 33 | M61 | X | .088 | .088 | 0 | %100 |
| 34 | M61 | Z | .051 | .051 | 0 | %100 |
| 35 | M62 | X | .239 | .239 | 0 | %100 |
| 36 | M62 | Z | .138 | .138 | 0 | %100 |
| 37 | M63 | X | 2.237 | 2.237 | 0 | %100 |
| 38 | M63 | Z | 1.292 | 1.292 | 0 | %100 |
| 39 | M64 | X | 2.275 | 2.275 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 40 | M64 | Z | 1.314 | 1.314 | 0 %100 |
| 41 | M67 | X | 2.275 | 2.275 | 0 %100 |
| 42 | M67 | Z | 1.314 | 1.314 | 0 %100 |
| 43 | M72 | X | 3.358 | 3.358 | 0 %100 |
| 44 | M72 | Z | 1.939 | 1.939 | 0 %100 |
| 45 | M73 | X | 3.358 | 3.358 | 0 %100 |
| 46 | M73 | Z | 1.939 | 1.939 | 0 %100 |
| 47 | M74 | X | 1.605 | 1.605 | 0 %100 |
| 48 | M74 | Z | .927 | .927 | 0 %100 |
| 49 | M75 | X | 1.605 | 1.605 | 0 %100 |
| 50 | M75 | Z | .927 | .927 | 0 %100 |
| 51 | M76 | X | .855 | .855 | 0 %100 |
| 52 | M76 | Z | .494 | .494 | 0 %100 |
| 53 | M46A | X | .855 | .855 | 0 %100 |
| 54 | M46A | Z | .494 | .494 | 0 %100 |
| 55 | M48A | X | .075 | .075 | 0 %100 |
| 56 | M48A | Z | .043 | .043 | 0 %100 |
| 57 | MP2A | X | 2.964 | 2.964 | 0 %100 |
| 58 | MP2A | Z | 1.711 | 1.711 | 0 %100 |
| 59 | MP3A | X | 2.964 | 2.964 | 0 %100 |
| 60 | MP3A | Z | 1.711 | 1.711 | 0 %100 |
| 61 | MP4A | X | 2.957 | 2.957 | 0 %100 |
| 62 | MP4A | Z | 1.707 | 1.707 | 0 %100 |
| 63 | MP5A | X | 2.964 | 2.964 | 0 %100 |
| 64 | MP5A | Z | 1.711 | 1.711 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 1.421 | 1.421 | 0 %100 |
| 2 | M51 | Z | 2.461 | 2.461 | 0 %100 |
| 3 | M54 | X | 1.421 | 1.421 | 0 %100 |
| 4 | M54 | Z | 2.461 | 2.461 | 0 %100 |
| 5 | MP1A | X | 1.711 | 1.711 | 0 %100 |
| 6 | MP1A | Z | 2.964 | 2.964 | 0 %100 |
| 7 | M39 | X | 1.573 | 1.573 | 0 %100 |
| 8 | M39 | Z | 2.725 | 2.725 | 0 %100 |
| 9 | M40 | X | .578 | .578 | 0 %100 |
| 10 | M40 | Z | 1.001 | 1.001 | 0 %100 |
| 11 | M42 | X | .578 | .578 | 0 %100 |
| 12 | M42 | Z | 1.001 | 1.001 | 0 %100 |
| 13 | M43 | X | 1.573 | 1.573 | 0 %100 |
| 14 | M43 | Z | 2.725 | 2.725 | 0 %100 |
| 15 | M44 | X | 1.292 | 1.292 | 0 %100 |
| 16 | M44 | Z | 2.237 | 2.237 | 0 %100 |
| 17 | M45 | X | 1.314 | 1.314 | 0 %100 |
| 18 | M45 | Z | 2.275 | 2.275 | 0 %100 |
| 19 | M48 | X | 1.314 | 1.314 | 0 %100 |
| 20 | M48 | Z | 2.275 | 2.275 | 0 %100 |
| 21 | M53 | X | 1.065 | 1.065 | 0 %100 |
| 22 | M53 | Z | 1.845 | 1.845 | 0 %100 |
| 23 | M54A | X | 1.065 | 1.065 | 0 %100 |
| 24 | M54A | Z | 1.845 | 1.845 | 0 %100 |
| 25 | M55 | X | 1.406 | 1.406 | 0 %100 |
| 26 | M55 | Z | 2.436 | 2.436 | 0 %100 |
| 27 | M56 | X | 1.406 | 1.406 | 0 %100 |
| 28 | M56 | Z | 2.436 | 2.436 | 0 %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,kst] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 29 | M58 | X | .093 | .093 | 0 | %100 |
| 30 | M58 | Z | .162 | .162 | 0 | %100 |
| 31 | M59 | X | .034 | .034 | 0 | %100 |
| 32 | M59 | Z | .059 | .059 | 0 | %100 |
| 33 | M61 | X | .034 | .034 | 0 | %100 |
| 34 | M61 | Z | .059 | .059 | 0 | %100 |
| 35 | M62 | X | .093 | .093 | 0 | %100 |
| 36 | M62 | Z | .162 | .162 | 0 | %100 |
| 37 | M63 | X | 1.292 | 1.292 | 0 | %100 |
| 38 | M63 | Z | 2.237 | 2.237 | 0 | %100 |
| 39 | M64 | X | 1.314 | 1.314 | 0 | %100 |
| 40 | M64 | Z | 2.275 | 2.275 | 0 | %100 |
| 41 | M67 | X | 1.314 | 1.314 | 0 | %100 |
| 42 | M67 | Z | 2.275 | 2.275 | 0 | %100 |
| 43 | M72 | X | 1.065 | 1.065 | 0 | %100 |
| 44 | M72 | Z | 1.845 | 1.845 | 0 | %100 |
| 45 | M73 | X | 1.065 | 1.065 | 0 | %100 |
| 46 | M73 | Z | 1.845 | 1.845 | 0 | %100 |
| 47 | M74 | X | .912 | .912 | 0 | %100 |
| 48 | M74 | Z | 1.579 | 1.579 | 0 | %100 |
| 49 | M75 | X | .912 | .912 | 0 | %100 |
| 50 | M75 | Z | 1.579 | 1.579 | 0 | %100 |
| 51 | M76 | X | 1.482 | 1.482 | 0 | %100 |
| 52 | M76 | Z | 2.566 | 2.566 | 0 | %100 |
| 53 | M46A | X | 1.482 | 1.482 | 0 | %100 |
| 54 | M46A | Z | 2.566 | 2.566 | 0 | %100 |
| 55 | M48A | X | .25 | .25 | 0 | %100 |
| 56 | M48A | Z | .434 | .434 | 0 | %100 |
| 57 | MP2A | X | 1.711 | 1.711 | 0 | %100 |
| 58 | MP2A | Z | 2.964 | 2.964 | 0 | %100 |
| 59 | MP3A | X | 1.711 | 1.711 | 0 | %100 |
| 60 | MP3A | Z | 2.964 | 2.964 | 0 | %100 |
| 61 | MP4A | X | 1.707 | 1.707 | 0 | %100 |
| 62 | MP4A | Z | 2.957 | 2.957 | 0 | %100 |
| 63 | MP5A | X | 1.711 | 1.711 | 0 | %100 |
| 64 | MP5A | Z | 2.964 | 2.964 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,kst] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 | %100 |
| 2 | M51 | Z | 3.789 | 3.789 | 0 | %100 |
| 3 | M54 | X | 0 | 0 | 0 | %100 |
| 4 | M54 | Z | 3.789 | 3.789 | 0 | %100 |
| 5 | MP1A | X | 0 | 0 | 0 | %100 |
| 6 | MP1A | Z | 3.423 | 3.423 | 0 | %100 |
| 7 | M39 | X | 0 | 0 | 0 | %100 |
| 8 | M39 | Z | 1.622 | 1.622 | 0 | %100 |
| 9 | M40 | X | 0 | 0 | 0 | %100 |
| 10 | M40 | Z | .596 | .596 | 0 | %100 |
| 11 | M42 | X | 0 | 0 | 0 | %100 |
| 12 | M42 | Z | .596 | .596 | 0 | %100 |
| 13 | M43 | X | 0 | 0 | 0 | %100 |
| 14 | M43 | Z | 1.622 | 1.622 | 0 | %100 |
| 15 | M44 | X | 0 | 0 | 0 | %100 |
| 16 | M44 | Z | 2.584 | 2.584 | 0 | %100 |
| 17 | M45 | X | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 18 | M45 | Z | 2.627 | 2.627 | 0 | %100 |
| 19 | M48 | X | 0 | 0 | 0 | %100 |
| 20 | M48 | Z | 2.627 | 2.627 | 0 | %100 |
| 21 | M53 | X | 0 | 0 | 0 | %100 |
| 22 | M53 | Z | 1.257 | 1.257 | 0 | %100 |
| 23 | M54A | X | 0 | 0 | 0 | %100 |
| 24 | M54A | Z | 1.257 | 1.257 | 0 | %100 |
| 25 | M55 | X | 0 | 0 | 0 | %100 |
| 26 | M55 | Z | 2.303 | 2.303 | 0 | %100 |
| 27 | M56 | X | 0 | 0 | 0 | %100 |
| 28 | M56 | Z | 2.303 | 2.303 | 0 | %100 |
| 29 | M58 | X | 0 | 0 | 0 | %100 |
| 30 | M58 | Z | 1.622 | 1.622 | 0 | %100 |
| 31 | M59 | X | 0 | 0 | 0 | %100 |
| 32 | M59 | Z | .596 | .596 | 0 | %100 |
| 33 | M61 | X | 0 | 0 | 0 | %100 |
| 34 | M61 | Z | .596 | .596 | 0 | %100 |
| 35 | M62 | X | 0 | 0 | 0 | %100 |
| 36 | M62 | Z | 1.622 | 1.622 | 0 | %100 |
| 37 | M63 | X | 0 | 0 | 0 | %100 |
| 38 | M63 | Z | 2.584 | 2.584 | 0 | %100 |
| 39 | M64 | X | 0 | 0 | 0 | %100 |
| 40 | M64 | Z | 2.627 | 2.627 | 0 | %100 |
| 41 | M67 | X | 0 | 0 | 0 | %100 |
| 42 | M67 | Z | 2.627 | 2.627 | 0 | %100 |
| 43 | M72 | X | 0 | 0 | 0 | %100 |
| 44 | M72 | Z | 1.257 | 1.257 | 0 | %100 |
| 45 | M73 | X | 0 | 0 | 0 | %100 |
| 46 | M73 | Z | 1.257 | 1.257 | 0 | %100 |
| 47 | M74 | X | 0 | 0 | 0 | %100 |
| 48 | M74 | Z | 2.303 | 2.303 | 0 | %100 |
| 49 | M75 | X | 0 | 0 | 0 | %100 |
| 50 | M75 | Z | 2.303 | 2.303 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | 3.951 | 3.951 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | 3.951 | 3.951 | 0 | %100 |
| 55 | M48A | X | 0 | 0 | 0 | %100 |
| 56 | M48A | Z | 2.309 | 2.309 | 0 | %100 |
| 57 | MP2A | X | 0 | 0 | 0 | %100 |
| 58 | MP2A | Z | 3.423 | 3.423 | 0 | %100 |
| 59 | MP3A | X | 0 | 0 | 0 | %100 |
| 60 | MP3A | Z | 3.423 | 3.423 | 0 | %100 |
| 61 | MP4A | X | 0 | 0 | 0 | %100 |
| 62 | MP4A | Z | 3.414 | 3.414 | 0 | %100 |
| 63 | MP5A | X | 0 | 0 | 0 | %100 |
| 64 | MP5A | Z | 3.423 | 3.423 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|---|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -1.421 | -1.421 | 0 | %100 |
| 2 | M51 | Z | 2.461 | 2.461 | 0 | %100 |
| 3 | M54 | X | -1.421 | -1.421 | 0 | %100 |
| 4 | M54 | Z | 2.461 | 2.461 | 0 | %100 |
| 5 | MP1A | X | -1.711 | -1.711 | 0 | %100 |
| 6 | MP1A | Z | 2.964 | 2.964 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 7 | M39 | X | -0.093 | -0.093 | 0 | %100 |
| 8 | M39 | Z | .162 | .162 | 0 | %100 |
| 9 | M40 | X | -.034 | -.034 | 0 | %100 |
| 10 | M40 | Z | .059 | .059 | 0 | %100 |
| 11 | M42 | X | -.034 | -.034 | 0 | %100 |
| 12 | M42 | Z | .059 | .059 | 0 | %100 |
| 13 | M43 | X | -0.093 | -0.093 | 0 | %100 |
| 14 | M43 | Z | .162 | .162 | 0 | %100 |
| 15 | M44 | X | -1.292 | -1.292 | 0 | %100 |
| 16 | M44 | Z | 2.237 | 2.237 | 0 | %100 |
| 17 | M45 | X | -1.314 | -1.314 | 0 | %100 |
| 18 | M45 | Z | 2.275 | 2.275 | 0 | %100 |
| 19 | M48 | X | -1.314 | -1.314 | 0 | %100 |
| 20 | M48 | Z | 2.275 | 2.275 | 0 | %100 |
| 21 | M53 | X | -1.065 | -1.065 | 0 | %100 |
| 22 | M53 | Z | 1.845 | 1.845 | 0 | %100 |
| 23 | M54A | X | -1.065 | -1.065 | 0 | %100 |
| 24 | M54A | Z | 1.845 | 1.845 | 0 | %100 |
| 25 | M55 | X | -.912 | -.912 | 0 | %100 |
| 26 | M55 | Z | 1.579 | 1.579 | 0 | %100 |
| 27 | M56 | X | -.912 | -.912 | 0 | %100 |
| 28 | M56 | Z | 1.579 | 1.579 | 0 | %100 |
| 29 | M58 | X | -1.573 | -1.573 | 0 | %100 |
| 30 | M58 | Z | 2.725 | 2.725 | 0 | %100 |
| 31 | M59 | X | -.578 | -.578 | 0 | %100 |
| 32 | M59 | Z | 1.001 | 1.001 | 0 | %100 |
| 33 | M61 | X | -.578 | -.578 | 0 | %100 |
| 34 | M61 | Z | 1.001 | 1.001 | 0 | %100 |
| 35 | M62 | X | -1.573 | -1.573 | 0 | %100 |
| 36 | M62 | Z | 2.725 | 2.725 | 0 | %100 |
| 37 | M63 | X | -1.292 | -1.292 | 0 | %100 |
| 38 | M63 | Z | 2.237 | 2.237 | 0 | %100 |
| 39 | M64 | X | -1.314 | -1.314 | 0 | %100 |
| 40 | M64 | Z | 2.275 | 2.275 | 0 | %100 |
| 41 | M67 | X | -1.314 | -1.314 | 0 | %100 |
| 42 | M67 | Z | 2.275 | 2.275 | 0 | %100 |
| 43 | M72 | X | -1.065 | -1.065 | 0 | %100 |
| 44 | M72 | Z | 1.845 | 1.845 | 0 | %100 |
| 45 | M73 | X | -1.065 | -1.065 | 0 | %100 |
| 46 | M73 | Z | 1.845 | 1.845 | 0 | %100 |
| 47 | M74 | X | -1.406 | -1.406 | 0 | %100 |
| 48 | M74 | Z | 2.436 | 2.436 | 0 | %100 |
| 49 | M75 | X | -1.406 | -1.406 | 0 | %100 |
| 50 | M75 | Z | 2.436 | 2.436 | 0 | %100 |
| 51 | M76 | X | -1.482 | -1.482 | 0 | %100 |
| 52 | M76 | Z | 2.566 | 2.566 | 0 | %100 |
| 53 | M46A | X | -1.482 | -1.482 | 0 | %100 |
| 54 | M46A | Z | 2.566 | 2.566 | 0 | %100 |
| 55 | M48A | X | -1.851 | -1.851 | 0 | %100 |
| 56 | M48A | Z | 3.206 | 3.206 | 0 | %100 |
| 57 | MP2A | X | -1.711 | -1.711 | 0 | %100 |
| 58 | MP2A | Z | 2.964 | 2.964 | 0 | %100 |
| 59 | MP3A | X | -1.711 | -1.711 | 0 | %100 |
| 60 | MP3A | Z | 2.964 | 2.964 | 0 | %100 |
| 61 | MP4A | X | -1.707 | -1.707 | 0 | %100 |
| 62 | MP4A | Z | 2.957 | 2.957 | 0 | %100 |
| 63 | MP5A | X | -1.711 | -1.711 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 64 | MP5A | Z | 2.964 | 2.964 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -.82 | -.82 | 0 | %100 |
| 2 | M51 | Z | .474 | .474 | 0 | %100 |
| 3 | M54 | X | -.82 | -.82 | 0 | %100 |
| 4 | M54 | Z | .474 | .474 | 0 | %100 |
| 5 | MP1A | X | -2.964 | -2.964 | 0 | %100 |
| 6 | MP1A | Z | 1.711 | 1.711 | 0 | %100 |
| 7 | M39 | X | -.239 | -.239 | 0 | %100 |
| 8 | M39 | Z | .138 | .138 | 0 | %100 |
| 9 | M40 | X | -.088 | -.088 | 0 | %100 |
| 10 | M40 | Z | .051 | .051 | 0 | %100 |
| 11 | M42 | X | -.088 | -.088 | 0 | %100 |
| 12 | M42 | Z | .051 | .051 | 0 | %100 |
| 13 | M43 | X | -.239 | -.239 | 0 | %100 |
| 14 | M43 | Z | .138 | .138 | 0 | %100 |
| 15 | M44 | X | -2.237 | -2.237 | 0 | %100 |
| 16 | M44 | Z | 1.292 | 1.292 | 0 | %100 |
| 17 | M45 | X | -2.275 | -2.275 | 0 | %100 |
| 18 | M45 | Z | 1.314 | 1.314 | 0 | %100 |
| 19 | M48 | X | -2.275 | -2.275 | 0 | %100 |
| 20 | M48 | Z | 1.314 | 1.314 | 0 | %100 |
| 21 | M53 | X | -3.358 | -3.358 | 0 | %100 |
| 22 | M53 | Z | 1.939 | 1.939 | 0 | %100 |
| 23 | M54A | X | -3.358 | -3.358 | 0 | %100 |
| 24 | M54A | Z | 1.939 | 1.939 | 0 | %100 |
| 25 | M55 | X | -1.605 | -1.605 | 0 | %100 |
| 26 | M55 | Z | .927 | .927 | 0 | %100 |
| 27 | M56 | X | -1.605 | -1.605 | 0 | %100 |
| 28 | M56 | Z | .927 | .927 | 0 | %100 |
| 29 | M58 | X | -2.803 | -2.803 | 0 | %100 |
| 30 | M58 | Z | 1.618 | 1.618 | 0 | %100 |
| 31 | M59 | X | -1.029 | -1.029 | 0 | %100 |
| 32 | M59 | Z | .594 | .594 | 0 | %100 |
| 33 | M61 | X | -1.029 | -1.029 | 0 | %100 |
| 34 | M61 | Z | .594 | .594 | 0 | %100 |
| 35 | M62 | X | -2.803 | -2.803 | 0 | %100 |
| 36 | M62 | Z | 1.618 | 1.618 | 0 | %100 |
| 37 | M63 | X | -2.237 | -2.237 | 0 | %100 |
| 38 | M63 | Z | 1.292 | 1.292 | 0 | %100 |
| 39 | M64 | X | -2.275 | -2.275 | 0 | %100 |
| 40 | M64 | Z | 1.314 | 1.314 | 0 | %100 |
| 41 | M67 | X | -2.275 | -2.275 | 0 | %100 |
| 42 | M67 | Z | 1.314 | 1.314 | 0 | %100 |
| 43 | M72 | X | -3.358 | -3.358 | 0 | %100 |
| 44 | M72 | Z | 1.939 | 1.939 | 0 | %100 |
| 45 | M73 | X | -3.358 | -3.358 | 0 | %100 |
| 46 | M73 | Z | 1.939 | 1.939 | 0 | %100 |
| 47 | M74 | X | -2.461 | -2.461 | 0 | %100 |
| 48 | M74 | Z | 1.421 | 1.421 | 0 | %100 |
| 49 | M75 | X | -2.461 | -2.461 | 0 | %100 |
| 50 | M75 | Z | 1.421 | 1.421 | 0 | %100 |
| 51 | M76 | X | -.855 | -.855 | 0 | %100 |
| 52 | M76 | Z | .494 | .494 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 53 | M46A | X | -855 | -855 | 0 %100 |
| 54 | M46A | Z | .494 | .494 | 0 %100 |
| 55 | M48A | X | -2.848 | -2.848 | 0 %100 |
| 56 | M48A | Z | 1.644 | 1.644 | 0 %100 |
| 57 | MP2A | X | -2.964 | -2.964 | 0 %100 |
| 58 | MP2A | Z | 1.711 | 1.711 | 0 %100 |
| 59 | MP3A | X | -2.964 | -2.964 | 0 %100 |
| 60 | MP3A | Z | 1.711 | 1.711 | 0 %100 |
| 61 | MP4A | X | -2.957 | -2.957 | 0 %100 |
| 62 | MP4A | Z | 1.707 | 1.707 | 0 %100 |
| 63 | MP5A | X | -2.964 | -2.964 | 0 %100 |
| 64 | MP5A | Z | 1.711 | 1.711 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 %100 |
| 2 | M51 | Z | 0 | 0 | 0 %100 |
| 3 | M54 | X | 0 | 0 | 0 %100 |
| 4 | M54 | Z | 0 | 0 | 0 %100 |
| 5 | MP1A | X | -3.423 | -3.423 | 0 %100 |
| 6 | MP1A | Z | 0 | 0 | 0 %100 |
| 7 | M39 | X | -1.801 | -1.801 | 0 %100 |
| 8 | M39 | Z | 0 | 0 | 0 %100 |
| 9 | M40 | X | -.662 | -.662 | 0 %100 |
| 10 | M40 | Z | 0 | 0 | 0 %100 |
| 11 | M42 | X | -.662 | -.662 | 0 %100 |
| 12 | M42 | Z | 0 | 0 | 0 %100 |
| 13 | M43 | X | -1.801 | -1.801 | 0 %100 |
| 14 | M43 | Z | 0 | 0 | 0 %100 |
| 15 | M44 | X | -2.584 | -2.584 | 0 %100 |
| 16 | M44 | Z | 0 | 0 | 0 %100 |
| 17 | M45 | X | -2.627 | -2.627 | 0 %100 |
| 18 | M45 | Z | 0 | 0 | 0 %100 |
| 19 | M48 | X | -2.627 | -2.627 | 0 %100 |
| 20 | M48 | Z | 0 | 0 | 0 %100 |
| 21 | M53 | X | -4.75 | -4.75 | 0 %100 |
| 22 | M53 | Z | 0 | 0 | 0 %100 |
| 23 | M54A | X | -4.75 | -4.75 | 0 %100 |
| 24 | M54A | Z | 0 | 0 | 0 %100 |
| 25 | M55 | X | -2.363 | -2.363 | 0 %100 |
| 26 | M55 | Z | 0 | 0 | 0 %100 |
| 27 | M56 | X | -2.363 | -2.363 | 0 %100 |
| 28 | M56 | Z | 0 | 0 | 0 %100 |
| 29 | M58 | X | -1.801 | -1.801 | 0 %100 |
| 30 | M58 | Z | 0 | 0 | 0 %100 |
| 31 | M59 | X | -.662 | -.662 | 0 %100 |
| 32 | M59 | Z | 0 | 0 | 0 %100 |
| 33 | M61 | X | -.662 | -.662 | 0 %100 |
| 34 | M61 | Z | 0 | 0 | 0 %100 |
| 35 | M62 | X | -1.801 | -1.801 | 0 %100 |
| 36 | M62 | Z | 0 | 0 | 0 %100 |
| 37 | M63 | X | -2.584 | -2.584 | 0 %100 |
| 38 | M63 | Z | 0 | 0 | 0 %100 |
| 39 | M64 | X | -2.627 | -2.627 | 0 %100 |
| 40 | M64 | Z | 0 | 0 | 0 %100 |
| 41 | M67 | X | -2.627 | -2.627 | 0 %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 42 | M67 | Z | 0 | 0 | 0 | %100 |
| 43 | M72 | X | -4.75 | -4.75 | 0 | %100 |
| 44 | M72 | Z | 0 | 0 | 0 | %100 |
| 45 | M73 | X | -4.75 | -4.75 | 0 | %100 |
| 46 | M73 | Z | 0 | 0 | 0 | %100 |
| 47 | M74 | X | -2.363 | -2.363 | 0 | %100 |
| 48 | M74 | Z | 0 | 0 | 0 | %100 |
| 49 | M75 | X | -2.363 | -2.363 | 0 | %100 |
| 50 | M75 | Z | 0 | 0 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | 0 | 0 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | 0 | 0 | 0 | %100 |
| 55 | M48A | X | -1.48 | -1.48 | 0 | %100 |
| 56 | M48A | Z | 0 | 0 | 0 | %100 |
| 57 | MP2A | X | -3.423 | -3.423 | 0 | %100 |
| 58 | MP2A | Z | 0 | 0 | 0 | %100 |
| 59 | MP3A | X | -3.423 | -3.423 | 0 | %100 |
| 60 | MP3A | Z | 0 | 0 | 0 | %100 |
| 61 | MP4A | X | -3.414 | -3.414 | 0 | %100 |
| 62 | MP4A | Z | 0 | 0 | 0 | %100 |
| 63 | MP5A | X | -3.423 | -3.423 | 0 | %100 |
| 64 | MP5A | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -82 | -82 | 0 | %100 |
| 2 | M51 | Z | -474 | -474 | 0 | %100 |
| 3 | M54 | X | -82 | -82 | 0 | %100 |
| 4 | M54 | Z | -474 | -474 | 0 | %100 |
| 5 | MP1A | X | -2.964 | -2.964 | 0 | %100 |
| 6 | MP1A | Z | -1.711 | -1.711 | 0 | %100 |
| 7 | M39 | X | -2.803 | -2.803 | 0 | %100 |
| 8 | M39 | Z | -1.618 | -1.618 | 0 | %100 |
| 9 | M40 | X | -1.029 | -1.029 | 0 | %100 |
| 10 | M40 | Z | -594 | -594 | 0 | %100 |
| 11 | M42 | X | -1.029 | -1.029 | 0 | %100 |
| 12 | M42 | Z | -594 | -594 | 0 | %100 |
| 13 | M43 | X | -2.803 | -2.803 | 0 | %100 |
| 14 | M43 | Z | -1.618 | -1.618 | 0 | %100 |
| 15 | M44 | X | -2.237 | -2.237 | 0 | %100 |
| 16 | M44 | Z | -1.292 | -1.292 | 0 | %100 |
| 17 | M45 | X | -2.275 | -2.275 | 0 | %100 |
| 18 | M45 | Z | -1.314 | -1.314 | 0 | %100 |
| 19 | M48 | X | -2.275 | -2.275 | 0 | %100 |
| 20 | M48 | Z | -1.314 | -1.314 | 0 | %100 |
| 21 | M53 | X | -3.358 | -3.358 | 0 | %100 |
| 22 | M53 | Z | -1.939 | -1.939 | 0 | %100 |
| 23 | M54A | X | -3.358 | -3.358 | 0 | %100 |
| 24 | M54A | Z | -1.939 | -1.939 | 0 | %100 |
| 25 | M55 | X | -2.461 | -2.461 | 0 | %100 |
| 26 | M55 | Z | -1.421 | -1.421 | 0 | %100 |
| 27 | M56 | X | -2.461 | -2.461 | 0 | %100 |
| 28 | M56 | Z | -1.421 | -1.421 | 0 | %100 |
| 29 | M58 | X | -239 | -239 | 0 | %100 |
| 30 | M58 | Z | -138 | -138 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 31 | M59 | X | -0.088 | -0.088 | 0 | %100 |
| 32 | M59 | Z | -0.051 | -0.051 | 0 | %100 |
| 33 | M61 | X | -0.088 | -0.088 | 0 | %100 |
| 34 | M61 | Z | -0.051 | -0.051 | 0 | %100 |
| 35 | M62 | X | -0.239 | -0.239 | 0 | %100 |
| 36 | M62 | Z | -0.138 | -0.138 | 0 | %100 |
| 37 | M63 | X | -2.237 | -2.237 | 0 | %100 |
| 38 | M63 | Z | -1.292 | -1.292 | 0 | %100 |
| 39 | M64 | X | -2.275 | -2.275 | 0 | %100 |
| 40 | M64 | Z | -1.314 | -1.314 | 0 | %100 |
| 41 | M67 | X | -2.275 | -2.275 | 0 | %100 |
| 42 | M67 | Z | -1.314 | -1.314 | 0 | %100 |
| 43 | M72 | X | -3.358 | -3.358 | 0 | %100 |
| 44 | M72 | Z | -1.939 | -1.939 | 0 | %100 |
| 45 | M73 | X | -3.358 | -3.358 | 0 | %100 |
| 46 | M73 | Z | -1.939 | -1.939 | 0 | %100 |
| 47 | M74 | X | -1.605 | -1.605 | 0 | %100 |
| 48 | M74 | Z | -0.927 | -0.927 | 0 | %100 |
| 49 | M75 | X | -1.605 | -1.605 | 0 | %100 |
| 50 | M75 | Z | -0.927 | -0.927 | 0 | %100 |
| 51 | M76 | X | -0.855 | -0.855 | 0 | %100 |
| 52 | M76 | Z | -0.494 | -0.494 | 0 | %100 |
| 53 | M46A | X | -0.855 | -0.855 | 0 | %100 |
| 54 | M46A | Z | -0.494 | -0.494 | 0 | %100 |
| 55 | M48A | X | -0.075 | -0.075 | 0 | %100 |
| 56 | M48A | Z | -0.043 | -0.043 | 0 | %100 |
| 57 | MP2A | X | -2.964 | -2.964 | 0 | %100 |
| 58 | MP2A | Z | -1.711 | -1.711 | 0 | %100 |
| 59 | MP3A | X | -2.964 | -2.964 | 0 | %100 |
| 60 | MP3A | Z | -1.711 | -1.711 | 0 | %100 |
| 61 | MP4A | X | -2.957 | -2.957 | 0 | %100 |
| 62 | MP4A | Z | -1.707 | -1.707 | 0 | %100 |
| 63 | MP5A | X | -2.964 | -2.964 | 0 | %100 |
| 64 | MP5A | Z | -1.711 | -1.711 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -1.421 | -1.421 | 0 | %100 |
| 2 | M51 | Z | -2.461 | -2.461 | 0 | %100 |
| 3 | M54 | X | -1.421 | -1.421 | 0 | %100 |
| 4 | M54 | Z | -2.461 | -2.461 | 0 | %100 |
| 5 | MP1A | X | -1.711 | -1.711 | 0 | %100 |
| 6 | MP1A | Z | -2.964 | -2.964 | 0 | %100 |
| 7 | M39 | X | -1.573 | -1.573 | 0 | %100 |
| 8 | M39 | Z | -2.725 | -2.725 | 0 | %100 |
| 9 | M40 | X | -0.578 | -0.578 | 0 | %100 |
| 10 | M40 | Z | -1.001 | -1.001 | 0 | %100 |
| 11 | M42 | X | -0.578 | -0.578 | 0 | %100 |
| 12 | M42 | Z | -1.001 | -1.001 | 0 | %100 |
| 13 | M43 | X | -1.573 | -1.573 | 0 | %100 |
| 14 | M43 | Z | -2.725 | -2.725 | 0 | %100 |
| 15 | M44 | X | -1.292 | -1.292 | 0 | %100 |
| 16 | M44 | Z | -2.237 | -2.237 | 0 | %100 |
| 17 | M45 | X | -1.314 | -1.314 | 0 | %100 |
| 18 | M45 | Z | -2.275 | -2.275 | 0 | %100 |
| 19 | M48 | X | -1.314 | -1.314 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 20 | M48 | Z | -2.275 | -2.275 | 0 %100 |
| 21 | M53 | X | -1.065 | -1.065 | 0 %100 |
| 22 | M53 | Z | -1.845 | -1.845 | 0 %100 |
| 23 | M54A | X | -1.065 | -1.065 | 0 %100 |
| 24 | M54A | Z | -1.845 | -1.845 | 0 %100 |
| 25 | M55 | X | -1.406 | -1.406 | 0 %100 |
| 26 | M55 | Z | -2.436 | -2.436 | 0 %100 |
| 27 | M56 | X | -1.406 | -1.406 | 0 %100 |
| 28 | M56 | Z | -2.436 | -2.436 | 0 %100 |
| 29 | M58 | X | -.093 | -.093 | 0 %100 |
| 30 | M58 | Z | -.162 | -.162 | 0 %100 |
| 31 | M59 | X | -.034 | -.034 | 0 %100 |
| 32 | M59 | Z | -.059 | -.059 | 0 %100 |
| 33 | M61 | X | -.034 | -.034 | 0 %100 |
| 34 | M61 | Z | -.059 | -.059 | 0 %100 |
| 35 | M62 | X | -.093 | -.093 | 0 %100 |
| 36 | M62 | Z | -.162 | -.162 | 0 %100 |
| 37 | M63 | X | -1.292 | -1.292 | 0 %100 |
| 38 | M63 | Z | -2.237 | -2.237 | 0 %100 |
| 39 | M64 | X | -1.314 | -1.314 | 0 %100 |
| 40 | M64 | Z | -2.275 | -2.275 | 0 %100 |
| 41 | M67 | X | -1.314 | -1.314 | 0 %100 |
| 42 | M67 | Z | -2.275 | -2.275 | 0 %100 |
| 43 | M72 | X | -1.065 | -1.065 | 0 %100 |
| 44 | M72 | Z | -1.845 | -1.845 | 0 %100 |
| 45 | M73 | X | -1.065 | -1.065 | 0 %100 |
| 46 | M73 | Z | -1.845 | -1.845 | 0 %100 |
| 47 | M74 | X | -.912 | -.912 | 0 %100 |
| 48 | M74 | Z | -1.579 | -1.579 | 0 %100 |
| 49 | M75 | X | -.912 | -.912 | 0 %100 |
| 50 | M75 | Z | -1.579 | -1.579 | 0 %100 |
| 51 | M76 | X | -1.482 | -1.482 | 0 %100 |
| 52 | M76 | Z | -2.566 | -2.566 | 0 %100 |
| 53 | M46A | X | -1.482 | -1.482 | 0 %100 |
| 54 | M46A | Z | -2.566 | -2.566 | 0 %100 |
| 55 | M48A | X | -.25 | -.25 | 0 %100 |
| 56 | M48A | Z | -.434 | -.434 | 0 %100 |
| 57 | MP2A | X | -1.711 | -1.711 | 0 %100 |
| 58 | MP2A | Z | -2.964 | -2.964 | 0 %100 |
| 59 | MP3A | X | -1.711 | -1.711 | 0 %100 |
| 60 | MP3A | Z | -2.964 | -2.964 | 0 %100 |
| 61 | MP4A | X | -1.707 | -1.707 | 0 %100 |
| 62 | MP4A | Z | -2.957 | -2.957 | 0 %100 |
| 63 | MP5A | X | -1.711 | -1.711 | 0 %100 |
| 64 | MP5A | Z | -2.964 | -2.964 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 %100 |
| 2 | M51 | Z | -.757 | -.757 | 0 %100 |
| 3 | M54 | X | 0 | 0 | 0 %100 |
| 4 | M54 | Z | -.757 | -.757 | 0 %100 |
| 5 | MP1A | X | 0 | 0 | 0 %100 |
| 6 | MP1A | Z | -.626 | -.626 | 0 %100 |
| 7 | M39 | X | 0 | 0 | 0 %100 |
| 8 | M39 | Z | -.296 | -.296 | 0 %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 9 | M40 | X | 0 | 0 | 0 | %100 |
| 10 | M40 | Z | -.047 | -.047 | 0 | %100 |
| 11 | M42 | X | 0 | 0 | 0 | %100 |
| 12 | M42 | Z | -.047 | -.047 | 0 | %100 |
| 13 | M43 | X | 0 | 0 | 0 | %100 |
| 14 | M43 | Z | -.296 | -.296 | 0 | %100 |
| 15 | M44 | X | 0 | 0 | 0 | %100 |
| 16 | M44 | Z | -.47 | -.47 | 0 | %100 |
| 17 | M45 | X | 0 | 0 | 0 | %100 |
| 18 | M45 | Z | -.444 | -.444 | 0 | %100 |
| 19 | M48 | X | 0 | 0 | 0 | %100 |
| 20 | M48 | Z | -.444 | -.444 | 0 | %100 |
| 21 | M53 | X | 0 | 0 | 0 | %100 |
| 22 | M53 | Z | -.099 | -.099 | 0 | %100 |
| 23 | M54A | X | 0 | 0 | 0 | %100 |
| 24 | M54A | Z | -.099 | -.099 | 0 | %100 |
| 25 | M55 | X | 0 | 0 | 0 | %100 |
| 26 | M55 | Z | -.392 | -.392 | 0 | %100 |
| 27 | M56 | X | 0 | 0 | 0 | %100 |
| 28 | M56 | Z | -.392 | -.392 | 0 | %100 |
| 29 | M58 | X | 0 | 0 | 0 | %100 |
| 30 | M58 | Z | -.296 | -.296 | 0 | %100 |
| 31 | M59 | X | 0 | 0 | 0 | %100 |
| 32 | M59 | Z | -.047 | -.047 | 0 | %100 |
| 33 | M61 | X | 0 | 0 | 0 | %100 |
| 34 | M61 | Z | -.047 | -.047 | 0 | %100 |
| 35 | M62 | X | 0 | 0 | 0 | %100 |
| 36 | M62 | Z | -.296 | -.296 | 0 | %100 |
| 37 | M63 | X | 0 | 0 | 0 | %100 |
| 38 | M63 | Z | -.47 | -.47 | 0 | %100 |
| 39 | M64 | X | 0 | 0 | 0 | %100 |
| 40 | M64 | Z | -.444 | -.444 | 0 | %100 |
| 41 | M67 | X | 0 | 0 | 0 | %100 |
| 42 | M67 | Z | -.444 | -.444 | 0 | %100 |
| 43 | M72 | X | 0 | 0 | 0 | %100 |
| 44 | M72 | Z | -.099 | -.099 | 0 | %100 |
| 45 | M73 | X | 0 | 0 | 0 | %100 |
| 46 | M73 | Z | -.099 | -.099 | 0 | %100 |
| 47 | M74 | X | 0 | 0 | 0 | %100 |
| 48 | M74 | Z | -.392 | -.392 | 0 | %100 |
| 49 | M75 | X | 0 | 0 | 0 | %100 |
| 50 | M75 | Z | -.392 | -.392 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | -1.054 | -1.054 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | -1.054 | -1.054 | 0 | %100 |
| 55 | M48A | X | 0 | 0 | 0 | %100 |
| 56 | M48A | Z | -.462 | -.462 | 0 | %100 |
| 57 | MP2A | X | 0 | 0 | 0 | %100 |
| 58 | MP2A | Z | -.626 | -.626 | 0 | %100 |
| 59 | MP3A | X | 0 | 0 | 0 | %100 |
| 60 | MP3A | Z | -.626 | -.626 | 0 | %100 |
| 61 | MP4A | X | 0 | 0 | 0 | %100 |
| 62 | MP4A | Z | -.623 | -.623 | 0 | %100 |
| 63 | MP5A | X | 0 | 0 | 0 | %100 |
| 64 | MP5A | Z | -.626 | -.626 | 0 | %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
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 Checked By: _____

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | .284 | .284 | 0 | %100 |
| 2 | M51 | Z | -.492 | -.492 | 0 | %100 |
| 3 | M54 | X | .284 | .284 | 0 | %100 |
| 4 | M54 | Z | -.492 | -.492 | 0 | %100 |
| 5 | MP1A | X | .313 | .313 | 0 | %100 |
| 6 | MP1A | Z | -.542 | -.542 | 0 | %100 |
| 7 | M39 | X | .017 | .017 | 0 | %100 |
| 8 | M39 | Z | -.03 | -.03 | 0 | %100 |
| 9 | M40 | X | .003 | .003 | 0 | %100 |
| 10 | M40 | Z | -.005 | -.005 | 0 | %100 |
| 11 | M42 | X | .003 | .003 | 0 | %100 |
| 12 | M42 | Z | -.005 | -.005 | 0 | %100 |
| 13 | M43 | X | .017 | .017 | 0 | %100 |
| 14 | M43 | Z | -.03 | -.03 | 0 | %100 |
| 15 | M44 | X | .235 | .235 | 0 | %100 |
| 16 | M44 | Z | -.407 | -.407 | 0 | %100 |
| 17 | M45 | X | .222 | .222 | 0 | %100 |
| 18 | M45 | Z | -.385 | -.385 | 0 | %100 |
| 19 | M48 | X | .222 | .222 | 0 | %100 |
| 20 | M48 | Z | -.385 | -.385 | 0 | %100 |
| 21 | M53 | X | .207 | .207 | 0 | %100 |
| 22 | M53 | Z | -.358 | -.358 | 0 | %100 |
| 23 | M54A | X | .207 | .207 | 0 | %100 |
| 24 | M54A | Z | -.358 | -.358 | 0 | %100 |
| 25 | M55 | X | .155 | .155 | 0 | %100 |
| 26 | M55 | Z | -.269 | -.269 | 0 | %100 |
| 27 | M56 | X | .155 | .155 | 0 | %100 |
| 28 | M56 | Z | -.269 | -.269 | 0 | %100 |
| 29 | M58 | X | .288 | .288 | 0 | %100 |
| 30 | M58 | Z | -.498 | -.498 | 0 | %100 |
| 31 | M59 | X | .045 | .045 | 0 | %100 |
| 32 | M59 | Z | -.079 | -.079 | 0 | %100 |
| 33 | M61 | X | .045 | .045 | 0 | %100 |
| 34 | M61 | Z | -.079 | -.079 | 0 | %100 |
| 35 | M62 | X | .288 | .288 | 0 | %100 |
| 36 | M62 | Z | -.498 | -.498 | 0 | %100 |
| 37 | M63 | X | .235 | .235 | 0 | %100 |
| 38 | M63 | Z | -.407 | -.407 | 0 | %100 |
| 39 | M64 | X | .222 | .222 | 0 | %100 |
| 40 | M64 | Z | -.385 | -.385 | 0 | %100 |
| 41 | M67 | X | .222 | .222 | 0 | %100 |
| 42 | M67 | Z | -.385 | -.385 | 0 | %100 |
| 43 | M72 | X | .207 | .207 | 0 | %100 |
| 44 | M72 | Z | -.358 | -.358 | 0 | %100 |
| 45 | M73 | X | .207 | .207 | 0 | %100 |
| 46 | M73 | Z | -.358 | -.358 | 0 | %100 |
| 47 | M74 | X | .239 | .239 | 0 | %100 |
| 48 | M74 | Z | -.415 | -.415 | 0 | %100 |
| 49 | M75 | X | .239 | .239 | 0 | %100 |
| 50 | M75 | Z | -.415 | -.415 | 0 | %100 |
| 51 | M76 | X | .395 | .395 | 0 | %100 |
| 52 | M76 | Z | -.684 | -.684 | 0 | %100 |
| 53 | M46A | X | .395 | .395 | 0 | %100 |
| 54 | M46A | Z | -.684 | -.684 | 0 | %100 |
| 55 | M48A | X | .37 | .37 | 0 | %100 |
| 56 | M48A | Z | -.641 | -.641 | 0 | %100 |
| 57 | MP2A | X | .313 | .313 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 58 | MP2A | Z | -.542 | -.542 | 0 %100 |
| 59 | MP3A | X | .313 | .313 | 0 %100 |
| 60 | MP3A | Z | -.542 | -.542 | 0 %100 |
| 61 | MP4A | X | .311 | .311 | 0 %100 |
| 62 | MP4A | Z | -.539 | -.539 | 0 %100 |
| 63 | MP5A | X | .313 | .313 | 0 %100 |
| 64 | MP5A | Z | -.542 | -.542 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | .164 | .164 | 0 %100 |
| 2 | M51 | Z | -.095 | -.095 | 0 %100 |
| 3 | M54 | X | .164 | .164 | 0 %100 |
| 4 | M54 | Z | -.095 | -.095 | 0 %100 |
| 5 | MP1A | X | .542 | .542 | 0 %100 |
| 6 | MP1A | Z | -.313 | -.313 | 0 %100 |
| 7 | M39 | X | .044 | .044 | 0 %100 |
| 8 | M39 | Z | -.025 | -.025 | 0 %100 |
| 9 | M40 | X | .007 | .007 | 0 %100 |
| 10 | M40 | Z | -.004 | -.004 | 0 %100 |
| 11 | M42 | X | .007 | .007 | 0 %100 |
| 12 | M42 | Z | -.004 | -.004 | 0 %100 |
| 13 | M43 | X | .044 | .044 | 0 %100 |
| 14 | M43 | Z | -.025 | -.025 | 0 %100 |
| 15 | M44 | X | .407 | .407 | 0 %100 |
| 16 | M44 | Z | -.235 | -.235 | 0 %100 |
| 17 | M45 | X | .385 | .385 | 0 %100 |
| 18 | M45 | Z | -.222 | -.222 | 0 %100 |
| 19 | M48 | X | .385 | .385 | 0 %100 |
| 20 | M48 | Z | -.222 | -.222 | 0 %100 |
| 21 | M53 | X | .902 | .902 | 0 %100 |
| 22 | M53 | Z | -.521 | -.521 | 0 %100 |
| 23 | M54A | X | .902 | .902 | 0 %100 |
| 24 | M54A | Z | -.521 | -.521 | 0 %100 |
| 25 | M55 | X | .273 | .273 | 0 %100 |
| 26 | M55 | Z | -.158 | -.158 | 0 %100 |
| 27 | M56 | X | .273 | .273 | 0 %100 |
| 28 | M56 | Z | -.158 | -.158 | 0 %100 |
| 29 | M58 | X | .512 | .512 | 0 %100 |
| 30 | M58 | Z | -.296 | -.296 | 0 %100 |
| 31 | M59 | X | .081 | .081 | 0 %100 |
| 32 | M59 | Z | -.047 | -.047 | 0 %100 |
| 33 | M61 | X | .081 | .081 | 0 %100 |
| 34 | M61 | Z | -.047 | -.047 | 0 %100 |
| 35 | M62 | X | .512 | .512 | 0 %100 |
| 36 | M62 | Z | -.296 | -.296 | 0 %100 |
| 37 | M63 | X | .407 | .407 | 0 %100 |
| 38 | M63 | Z | -.235 | -.235 | 0 %100 |
| 39 | M64 | X | .385 | .385 | 0 %100 |
| 40 | M64 | Z | -.222 | -.222 | 0 %100 |
| 41 | M67 | X | .385 | .385 | 0 %100 |
| 42 | M67 | Z | -.222 | -.222 | 0 %100 |
| 43 | M72 | X | .902 | .902 | 0 %100 |
| 44 | M72 | Z | -.521 | -.521 | 0 %100 |
| 45 | M73 | X | .902 | .902 | 0 %100 |
| 46 | M73 | Z | -.521 | -.521 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 47 | M74 | X | .419 | .419 | 0 %100 |
| 48 | M74 | Z | -.242 | -.242 | 0 %100 |
| 49 | M75 | X | .419 | .419 | 0 %100 |
| 50 | M75 | Z | -.242 | -.242 | 0 %100 |
| 51 | M76 | X | .228 | .228 | 0 %100 |
| 52 | M76 | Z | -.132 | -.132 | 0 %100 |
| 53 | M46A | X | .228 | .228 | 0 %100 |
| 54 | M46A | Z | -.132 | -.132 | 0 %100 |
| 55 | M48A | X | .569 | .569 | 0 %100 |
| 56 | M48A | Z | -.329 | -.329 | 0 %100 |
| 57 | MP2A | X | .542 | .542 | 0 %100 |
| 58 | MP2A | Z | -.313 | -.313 | 0 %100 |
| 59 | MP3A | X | .542 | .542 | 0 %100 |
| 60 | MP3A | Z | -.313 | -.313 | 0 %100 |
| 61 | MP4A | X | .539 | .539 | 0 %100 |
| 62 | MP4A | Z | -.311 | -.311 | 0 %100 |
| 63 | MP5A | X | .542 | .542 | 0 %100 |
| 64 | MP5A | Z | -.313 | -.313 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 %100 |
| 2 | M51 | Z | 0 | 0 | 0 %100 |
| 3 | M54 | X | 0 | 0 | 0 %100 |
| 4 | M54 | Z | 0 | 0 | 0 %100 |
| 5 | MP1A | X | .626 | .626 | 0 %100 |
| 6 | MP1A | Z | 0 | 0 | 0 %100 |
| 7 | M39 | X | .329 | .329 | 0 %100 |
| 8 | M39 | Z | 0 | 0 | 0 %100 |
| 9 | M40 | X | .052 | .052 | 0 %100 |
| 10 | M40 | Z | 0 | 0 | 0 %100 |
| 11 | M42 | X | .052 | .052 | 0 %100 |
| 12 | M42 | Z | 0 | 0 | 0 %100 |
| 13 | M43 | X | .329 | .329 | 0 %100 |
| 14 | M43 | Z | 0 | 0 | 0 %100 |
| 15 | M44 | X | .47 | .47 | 0 %100 |
| 16 | M44 | Z | 0 | 0 | 0 %100 |
| 17 | M45 | X | .444 | .444 | 0 %100 |
| 18 | M45 | Z | 0 | 0 | 0 %100 |
| 19 | M48 | X | .444 | .444 | 0 %100 |
| 20 | M48 | Z | 0 | 0 | 0 %100 |
| 21 | M53 | X | 1.356 | 1.356 | 0 %100 |
| 22 | M53 | Z | 0 | 0 | 0 %100 |
| 23 | M54A | X | 1.356 | 1.356 | 0 %100 |
| 24 | M54A | Z | 0 | 0 | 0 %100 |
| 25 | M55 | X | .402 | .402 | 0 %100 |
| 26 | M55 | Z | 0 | 0 | 0 %100 |
| 27 | M56 | X | .402 | .402 | 0 %100 |
| 28 | M56 | Z | 0 | 0 | 0 %100 |
| 29 | M58 | X | .329 | .329 | 0 %100 |
| 30 | M58 | Z | 0 | 0 | 0 %100 |
| 31 | M59 | X | .052 | .052 | 0 %100 |
| 32 | M59 | Z | 0 | 0 | 0 %100 |
| 33 | M61 | X | .052 | .052 | 0 %100 |
| 34 | M61 | Z | 0 | 0 | 0 %100 |
| 35 | M62 | X | .329 | .329 | 0 %100 |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
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 Checked By: _____

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 36 | M62 | Z | 0 | 0 | 0 | %100 |
| 37 | M63 | X | .47 | .47 | 0 | %100 |
| 38 | M63 | Z | 0 | 0 | 0 | %100 |
| 39 | M64 | X | .444 | .444 | 0 | %100 |
| 40 | M64 | Z | 0 | 0 | 0 | %100 |
| 41 | M67 | X | .444 | .444 | 0 | %100 |
| 42 | M67 | Z | 0 | 0 | 0 | %100 |
| 43 | M72 | X | 1.356 | 1.356 | 0 | %100 |
| 44 | M72 | Z | 0 | 0 | 0 | %100 |
| 45 | M73 | X | 1.356 | 1.356 | 0 | %100 |
| 46 | M73 | Z | 0 | 0 | 0 | %100 |
| 47 | M74 | X | .402 | .402 | 0 | %100 |
| 48 | M74 | Z | 0 | 0 | 0 | %100 |
| 49 | M75 | X | .402 | .402 | 0 | %100 |
| 50 | M75 | Z | 0 | 0 | 0 | %100 |
| 51 | M76 | X | 0 | 0 | 0 | %100 |
| 52 | M76 | Z | 0 | 0 | 0 | %100 |
| 53 | M46A | X | 0 | 0 | 0 | %100 |
| 54 | M46A | Z | 0 | 0 | 0 | %100 |
| 55 | M48A | X | .296 | .296 | 0 | %100 |
| 56 | M48A | Z | 0 | 0 | 0 | %100 |
| 57 | MP2A | X | .626 | .626 | 0 | %100 |
| 58 | MP2A | Z | 0 | 0 | 0 | %100 |
| 59 | MP3A | X | .626 | .626 | 0 | %100 |
| 60 | MP3A | Z | 0 | 0 | 0 | %100 |
| 61 | MP4A | X | .623 | .623 | 0 | %100 |
| 62 | MP4A | Z | 0 | 0 | 0 | %100 |
| 63 | MP5A | X | .626 | .626 | 0 | %100 |
| 64 | MP5A | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | .164 | .164 | 0 | %100 |
| 2 | M51 | Z | .095 | .095 | 0 | %100 |
| 3 | M54 | X | .164 | .164 | 0 | %100 |
| 4 | M54 | Z | .095 | .095 | 0 | %100 |
| 5 | MP1A | X | .542 | .542 | 0 | %100 |
| 6 | MP1A | Z | .313 | .313 | 0 | %100 |
| 7 | M39 | X | .512 | .512 | 0 | %100 |
| 8 | M39 | Z | .296 | .296 | 0 | %100 |
| 9 | M40 | X | .081 | .081 | 0 | %100 |
| 10 | M40 | Z | .047 | .047 | 0 | %100 |
| 11 | M42 | X | .081 | .081 | 0 | %100 |
| 12 | M42 | Z | .047 | .047 | 0 | %100 |
| 13 | M43 | X | .512 | .512 | 0 | %100 |
| 14 | M43 | Z | .296 | .296 | 0 | %100 |
| 15 | M44 | X | .407 | .407 | 0 | %100 |
| 16 | M44 | Z | .235 | .235 | 0 | %100 |
| 17 | M45 | X | .385 | .385 | 0 | %100 |
| 18 | M45 | Z | .222 | .222 | 0 | %100 |
| 19 | M48 | X | .385 | .385 | 0 | %100 |
| 20 | M48 | Z | .222 | .222 | 0 | %100 |
| 21 | M53 | X | .902 | .902 | 0 | %100 |
| 22 | M53 | Z | .521 | .521 | 0 | %100 |
| 23 | M54A | X | .902 | .902 | 0 | %100 |
| 24 | M54A | Z | .521 | .521 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 25 | M55 | X | .419 | .419 | 0 | %100 |
| 26 | M55 | Z | .242 | .242 | 0 | %100 |
| 27 | M56 | X | .419 | .419 | 0 | %100 |
| 28 | M56 | Z | .242 | .242 | 0 | %100 |
| 29 | M58 | X | .044 | .044 | 0 | %100 |
| 30 | M58 | Z | .025 | .025 | 0 | %100 |
| 31 | M59 | X | .007 | .007 | 0 | %100 |
| 32 | M59 | Z | .004 | .004 | 0 | %100 |
| 33 | M61 | X | .007 | .007 | 0 | %100 |
| 34 | M61 | Z | .004 | .004 | 0 | %100 |
| 35 | M62 | X | .044 | .044 | 0 | %100 |
| 36 | M62 | Z | .025 | .025 | 0 | %100 |
| 37 | M63 | X | .407 | .407 | 0 | %100 |
| 38 | M63 | Z | .235 | .235 | 0 | %100 |
| 39 | M64 | X | .385 | .385 | 0 | %100 |
| 40 | M64 | Z | .222 | .222 | 0 | %100 |
| 41 | M67 | X | .385 | .385 | 0 | %100 |
| 42 | M67 | Z | .222 | .222 | 0 | %100 |
| 43 | M72 | X | .902 | .902 | 0 | %100 |
| 44 | M72 | Z | .521 | .521 | 0 | %100 |
| 45 | M73 | X | .902 | .902 | 0 | %100 |
| 46 | M73 | Z | .521 | .521 | 0 | %100 |
| 47 | M74 | X | .273 | .273 | 0 | %100 |
| 48 | M74 | Z | .158 | .158 | 0 | %100 |
| 49 | M75 | X | .273 | .273 | 0 | %100 |
| 50 | M75 | Z | .158 | .158 | 0 | %100 |
| 51 | M76 | X | .228 | .228 | 0 | %100 |
| 52 | M76 | Z | .132 | .132 | 0 | %100 |
| 53 | M46A | X | .228 | .228 | 0 | %100 |
| 54 | M46A | Z | .132 | .132 | 0 | %100 |
| 55 | M48A | X | .015 | .015 | 0 | %100 |
| 56 | M48A | Z | .009 | .009 | 0 | %100 |
| 57 | MP2A | X | .542 | .542 | 0 | %100 |
| 58 | MP2A | Z | .313 | .313 | 0 | %100 |
| 59 | MP3A | X | .542 | .542 | 0 | %100 |
| 60 | MP3A | Z | .313 | .313 | 0 | %100 |
| 61 | MP4A | X | .539 | .539 | 0 | %100 |
| 62 | MP4A | Z | .311 | .311 | 0 | %100 |
| 63 | MP5A | X | .542 | .542 | 0 | %100 |
| 64 | MP5A | Z | .313 | .313 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | .284 | .284 | 0 | %100 |
| 2 | M51 | Z | .492 | .492 | 0 | %100 |
| 3 | M54 | X | .284 | .284 | 0 | %100 |
| 4 | M54 | Z | .492 | .492 | 0 | %100 |
| 5 | MP1A | X | .313 | .313 | 0 | %100 |
| 6 | MP1A | Z | .542 | .542 | 0 | %100 |
| 7 | M39 | X | .288 | .288 | 0 | %100 |
| 8 | M39 | Z | .498 | .498 | 0 | %100 |
| 9 | M40 | X | .045 | .045 | 0 | %100 |
| 10 | M40 | Z | .079 | .079 | 0 | %100 |
| 11 | M42 | X | .045 | .045 | 0 | %100 |
| 12 | M42 | Z | .079 | .079 | 0 | %100 |
| 13 | M43 | X | .288 | .288 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 14 | M43 | Z | .498 | .498 | 0 | %100 |
| 15 | M44 | X | .235 | .235 | 0 | %100 |
| 16 | M44 | Z | .407 | .407 | 0 | %100 |
| 17 | M45 | X | .222 | .222 | 0 | %100 |
| 18 | M45 | Z | .385 | .385 | 0 | %100 |
| 19 | M48 | X | .222 | .222 | 0 | %100 |
| 20 | M48 | Z | .385 | .385 | 0 | %100 |
| 21 | M53 | X | .207 | .207 | 0 | %100 |
| 22 | M53 | Z | .358 | .358 | 0 | %100 |
| 23 | M54A | X | .207 | .207 | 0 | %100 |
| 24 | M54A | Z | .358 | .358 | 0 | %100 |
| 25 | M55 | X | .239 | .239 | 0 | %100 |
| 26 | M55 | Z | .415 | .415 | 0 | %100 |
| 27 | M56 | X | .239 | .239 | 0 | %100 |
| 28 | M56 | Z | .415 | .415 | 0 | %100 |
| 29 | M58 | X | .017 | .017 | 0 | %100 |
| 30 | M58 | Z | .03 | .03 | 0 | %100 |
| 31 | M59 | X | .003 | .003 | 0 | %100 |
| 32 | M59 | Z | .005 | .005 | 0 | %100 |
| 33 | M61 | X | .003 | .003 | 0 | %100 |
| 34 | M61 | Z | .005 | .005 | 0 | %100 |
| 35 | M62 | X | .017 | .017 | 0 | %100 |
| 36 | M62 | Z | .03 | .03 | 0 | %100 |
| 37 | M63 | X | .235 | .235 | 0 | %100 |
| 38 | M63 | Z | .407 | .407 | 0 | %100 |
| 39 | M64 | X | .222 | .222 | 0 | %100 |
| 40 | M64 | Z | .385 | .385 | 0 | %100 |
| 41 | M67 | X | .222 | .222 | 0 | %100 |
| 42 | M67 | Z | .385 | .385 | 0 | %100 |
| 43 | M72 | X | .207 | .207 | 0 | %100 |
| 44 | M72 | Z | .358 | .358 | 0 | %100 |
| 45 | M73 | X | .207 | .207 | 0 | %100 |
| 46 | M73 | Z | .358 | .358 | 0 | %100 |
| 47 | M74 | X | .155 | .155 | 0 | %100 |
| 48 | M74 | Z | .269 | .269 | 0 | %100 |
| 49 | M75 | X | .155 | .155 | 0 | %100 |
| 50 | M75 | Z | .269 | .269 | 0 | %100 |
| 51 | M76 | X | .395 | .395 | 0 | %100 |
| 52 | M76 | Z | .684 | .684 | 0 | %100 |
| 53 | M46A | X | .395 | .395 | 0 | %100 |
| 54 | M46A | Z | .684 | .684 | 0 | %100 |
| 55 | M48A | X | .05 | .05 | 0 | %100 |
| 56 | M48A | Z | .087 | .087 | 0 | %100 |
| 57 | MP2A | X | .313 | .313 | 0 | %100 |
| 58 | MP2A | Z | .542 | .542 | 0 | %100 |
| 59 | MP3A | X | .313 | .313 | 0 | %100 |
| 60 | MP3A | Z | .542 | .542 | 0 | %100 |
| 61 | MP4A | X | .311 | .311 | 0 | %100 |
| 62 | MP4A | Z | .539 | .539 | 0 | %100 |
| 63 | MP5A | X | .313 | .313 | 0 | %100 |
| 64 | MP5A | Z | .542 | .542 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|---|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 | %100 |
| 2 | M51 | Z | .757 | .757 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 3 | M54 | X | 0 | 0 | %100 |
| 4 | M54 | Z | .757 | .757 | %100 |
| 5 | MP1A | X | 0 | 0 | %100 |
| 6 | MP1A | Z | .626 | .626 | %100 |
| 7 | M39 | X | 0 | 0 | %100 |
| 8 | M39 | Z | .296 | .296 | %100 |
| 9 | M40 | X | 0 | 0 | %100 |
| 10 | M40 | Z | .047 | .047 | %100 |
| 11 | M42 | X | 0 | 0 | %100 |
| 12 | M42 | Z | .047 | .047 | %100 |
| 13 | M43 | X | 0 | 0 | %100 |
| 14 | M43 | Z | .296 | .296 | %100 |
| 15 | M44 | X | 0 | 0 | %100 |
| 16 | M44 | Z | .47 | .47 | %100 |
| 17 | M45 | X | 0 | 0 | %100 |
| 18 | M45 | Z | .444 | .444 | %100 |
| 19 | M48 | X | 0 | 0 | %100 |
| 20 | M48 | Z | .444 | .444 | %100 |
| 21 | M53 | X | 0 | 0 | %100 |
| 22 | M53 | Z | .099 | .099 | %100 |
| 23 | M54A | X | 0 | 0 | %100 |
| 24 | M54A | Z | .099 | .099 | %100 |
| 25 | M55 | X | 0 | 0 | %100 |
| 26 | M55 | Z | .392 | .392 | %100 |
| 27 | M56 | X | 0 | 0 | %100 |
| 28 | M56 | Z | .392 | .392 | %100 |
| 29 | M58 | X | 0 | 0 | %100 |
| 30 | M58 | Z | .296 | .296 | %100 |
| 31 | M59 | X | 0 | 0 | %100 |
| 32 | M59 | Z | .047 | .047 | %100 |
| 33 | M61 | X | 0 | 0 | %100 |
| 34 | M61 | Z | .047 | .047 | %100 |
| 35 | M62 | X | 0 | 0 | %100 |
| 36 | M62 | Z | .296 | .296 | %100 |
| 37 | M63 | X | 0 | 0 | %100 |
| 38 | M63 | Z | .47 | .47 | %100 |
| 39 | M64 | X | 0 | 0 | %100 |
| 40 | M64 | Z | .444 | .444 | %100 |
| 41 | M67 | X | 0 | 0 | %100 |
| 42 | M67 | Z | .444 | .444 | %100 |
| 43 | M72 | X | 0 | 0 | %100 |
| 44 | M72 | Z | .099 | .099 | %100 |
| 45 | M73 | X | 0 | 0 | %100 |
| 46 | M73 | Z | .099 | .099 | %100 |
| 47 | M74 | X | 0 | 0 | %100 |
| 48 | M74 | Z | .392 | .392 | %100 |
| 49 | M75 | X | 0 | 0 | %100 |
| 50 | M75 | Z | .392 | .392 | %100 |
| 51 | M76 | X | 0 | 0 | %100 |
| 52 | M76 | Z | 1.054 | 1.054 | %100 |
| 53 | M46A | X | 0 | 0 | %100 |
| 54 | M46A | Z | 1.054 | 1.054 | %100 |
| 55 | M48A | X | 0 | 0 | %100 |
| 56 | M48A | Z | .462 | .462 | %100 |
| 57 | MP2A | X | 0 | 0 | %100 |
| 58 | MP2A | Z | .626 | .626 | %100 |
| 59 | MP3A | X | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|------|
| 60 | MP3A | Z | .626 | .626 | 0 | %100 |
| 61 | MP4A | X | 0 | 0 | 0 | %100 |
| 62 | MP4A | Z | .623 | .623 | 0 | %100 |
| 63 | MP5A | X | 0 | 0 | 0 | %100 |
| 64 | MP5A | Z | .626 | .626 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|------|
| 1 | M51 | X | -.284 | -.284 | 0 | %100 |
| 2 | M51 | Z | .492 | .492 | 0 | %100 |
| 3 | M54 | X | -.284 | -.284 | 0 | %100 |
| 4 | M54 | Z | .492 | .492 | 0 | %100 |
| 5 | MP1A | X | -.313 | -.313 | 0 | %100 |
| 6 | MP1A | Z | .542 | .542 | 0 | %100 |
| 7 | M39 | X | -.017 | -.017 | 0 | %100 |
| 8 | M39 | Z | .03 | .03 | 0 | %100 |
| 9 | M40 | X | -.003 | -.003 | 0 | %100 |
| 10 | M40 | Z | .005 | .005 | 0 | %100 |
| 11 | M42 | X | -.003 | -.003 | 0 | %100 |
| 12 | M42 | Z | .005 | .005 | 0 | %100 |
| 13 | M43 | X | -.017 | -.017 | 0 | %100 |
| 14 | M43 | Z | .03 | .03 | 0 | %100 |
| 15 | M44 | X | -.235 | -.235 | 0 | %100 |
| 16 | M44 | Z | .407 | .407 | 0 | %100 |
| 17 | M45 | X | -.222 | -.222 | 0 | %100 |
| 18 | M45 | Z | .385 | .385 | 0 | %100 |
| 19 | M48 | X | -.222 | -.222 | 0 | %100 |
| 20 | M48 | Z | .385 | .385 | 0 | %100 |
| 21 | M53 | X | -.207 | -.207 | 0 | %100 |
| 22 | M53 | Z | .358 | .358 | 0 | %100 |
| 23 | M54A | X | -.207 | -.207 | 0 | %100 |
| 24 | M54A | Z | .358 | .358 | 0 | %100 |
| 25 | M55 | X | -.155 | -.155 | 0 | %100 |
| 26 | M55 | Z | .269 | .269 | 0 | %100 |
| 27 | M56 | X | -.155 | -.155 | 0 | %100 |
| 28 | M56 | Z | .269 | .269 | 0 | %100 |
| 29 | M58 | X | -.288 | -.288 | 0 | %100 |
| 30 | M58 | Z | .498 | .498 | 0 | %100 |
| 31 | M59 | X | -.045 | -.045 | 0 | %100 |
| 32 | M59 | Z | .079 | .079 | 0 | %100 |
| 33 | M61 | X | -.045 | -.045 | 0 | %100 |
| 34 | M61 | Z | .079 | .079 | 0 | %100 |
| 35 | M62 | X | -.288 | -.288 | 0 | %100 |
| 36 | M62 | Z | .498 | .498 | 0 | %100 |
| 37 | M63 | X | -.235 | -.235 | 0 | %100 |
| 38 | M63 | Z | .407 | .407 | 0 | %100 |
| 39 | M64 | X | -.222 | -.222 | 0 | %100 |
| 40 | M64 | Z | .385 | .385 | 0 | %100 |
| 41 | M67 | X | -.222 | -.222 | 0 | %100 |
| 42 | M67 | Z | .385 | .385 | 0 | %100 |
| 43 | M72 | X | -.207 | -.207 | 0 | %100 |
| 44 | M72 | Z | .358 | .358 | 0 | %100 |
| 45 | M73 | X | -.207 | -.207 | 0 | %100 |
| 46 | M73 | Z | .358 | .358 | 0 | %100 |
| 47 | M74 | X | -.239 | -.239 | 0 | %100 |
| 48 | M74 | Z | .415 | .415 | 0 | %100 |



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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F,kSF] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 49 | M75 | X | -.239 | -.239 | 0 | %100 |
| 50 | M75 | Z | .415 | .415 | 0 | %100 |
| 51 | M76 | X | -.395 | -.395 | 0 | %100 |
| 52 | M76 | Z | .684 | .684 | 0 | %100 |
| 53 | M46A | X | -.395 | -.395 | 0 | %100 |
| 54 | M46A | Z | .684 | .684 | 0 | %100 |
| 55 | M48A | X | -.37 | -.37 | 0 | %100 |
| 56 | M48A | Z | .641 | .641 | 0 | %100 |
| 57 | MP2A | X | -.313 | -.313 | 0 | %100 |
| 58 | MP2A | Z | .542 | .542 | 0 | %100 |
| 59 | MP3A | X | -.313 | -.313 | 0 | %100 |
| 60 | MP3A | Z | .542 | .542 | 0 | %100 |
| 61 | MP4A | X | -.311 | -.311 | 0 | %100 |
| 62 | MP4A | Z | .539 | .539 | 0 | %100 |
| 63 | MP5A | X | -.313 | -.313 | 0 | %100 |
| 64 | MP5A | Z | .542 | .542 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/f...] | End Magnitude[lb/ft,F,kSF] | Start Location[in.%] | End Location[in.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -.164 | -.164 | 0 | %100 |
| 2 | M51 | Z | .095 | .095 | 0 | %100 |
| 3 | M54 | X | -.164 | -.164 | 0 | %100 |
| 4 | M54 | Z | .095 | .095 | 0 | %100 |
| 5 | MP1A | X | -.542 | -.542 | 0 | %100 |
| 6 | MP1A | Z | .313 | .313 | 0 | %100 |
| 7 | M39 | X | -.044 | -.044 | 0 | %100 |
| 8 | M39 | Z | .025 | .025 | 0 | %100 |
| 9 | M40 | X | -.007 | -.007 | 0 | %100 |
| 10 | M40 | Z | .004 | .004 | 0 | %100 |
| 11 | M42 | X | -.007 | -.007 | 0 | %100 |
| 12 | M42 | Z | .004 | .004 | 0 | %100 |
| 13 | M43 | X | -.044 | -.044 | 0 | %100 |
| 14 | M43 | Z | .025 | .025 | 0 | %100 |
| 15 | M44 | X | -.407 | -.407 | 0 | %100 |
| 16 | M44 | Z | .235 | .235 | 0 | %100 |
| 17 | M45 | X | -.385 | -.385 | 0 | %100 |
| 18 | M45 | Z | .222 | .222 | 0 | %100 |
| 19 | M48 | X | -.385 | -.385 | 0 | %100 |
| 20 | M48 | Z | .222 | .222 | 0 | %100 |
| 21 | M53 | X | -.902 | -.902 | 0 | %100 |
| 22 | M53 | Z | .521 | .521 | 0 | %100 |
| 23 | M54A | X | -.902 | -.902 | 0 | %100 |
| 24 | M54A | Z | .521 | .521 | 0 | %100 |
| 25 | M55 | X | -.273 | -.273 | 0 | %100 |
| 26 | M55 | Z | .158 | .158 | 0 | %100 |
| 27 | M56 | X | -.273 | -.273 | 0 | %100 |
| 28 | M56 | Z | .158 | .158 | 0 | %100 |
| 29 | M58 | X | -.512 | -.512 | 0 | %100 |
| 30 | M58 | Z | .296 | .296 | 0 | %100 |
| 31 | M59 | X | -.081 | -.081 | 0 | %100 |
| 32 | M59 | Z | .047 | .047 | 0 | %100 |
| 33 | M61 | X | -.081 | -.081 | 0 | %100 |
| 34 | M61 | Z | .047 | .047 | 0 | %100 |
| 35 | M62 | X | -.512 | -.512 | 0 | %100 |
| 36 | M62 | Z | .296 | .296 | 0 | %100 |
| 37 | M63 | X | -.407 | -.407 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 38 | M63 | Z | .235 | .235 | 0 %100 |
| 39 | M64 | X | -.385 | -.385 | 0 %100 |
| 40 | M64 | Z | .222 | .222 | 0 %100 |
| 41 | M67 | X | -.385 | -.385 | 0 %100 |
| 42 | M67 | Z | .222 | .222 | 0 %100 |
| 43 | M72 | X | -.902 | -.902 | 0 %100 |
| 44 | M72 | Z | .521 | .521 | 0 %100 |
| 45 | M73 | X | -.902 | -.902 | 0 %100 |
| 46 | M73 | Z | .521 | .521 | 0 %100 |
| 47 | M74 | X | -.419 | -.419 | 0 %100 |
| 48 | M74 | Z | .242 | .242 | 0 %100 |
| 49 | M75 | X | -.419 | -.419 | 0 %100 |
| 50 | M75 | Z | .242 | .242 | 0 %100 |
| 51 | M76 | X | -.228 | -.228 | 0 %100 |
| 52 | M76 | Z | .132 | .132 | 0 %100 |
| 53 | M46A | X | -.228 | -.228 | 0 %100 |
| 54 | M46A | Z | .132 | .132 | 0 %100 |
| 55 | M48A | X | -.569 | -.569 | 0 %100 |
| 56 | M48A | Z | .329 | .329 | 0 %100 |
| 57 | MP2A | X | -.542 | -.542 | 0 %100 |
| 58 | MP2A | Z | .313 | .313 | 0 %100 |
| 59 | MP3A | X | -.542 | -.542 | 0 %100 |
| 60 | MP3A | Z | .313 | .313 | 0 %100 |
| 61 | MP4A | X | -.539 | -.539 | 0 %100 |
| 62 | MP4A | Z | .311 | .311 | 0 %100 |
| 63 | MP5A | X | -.542 | -.542 | 0 %100 |
| 64 | MP5A | Z | .313 | .313 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | 0 | 0 | 0 %100 |
| 2 | M51 | Z | 0 | 0 | 0 %100 |
| 3 | M54 | X | 0 | 0 | 0 %100 |
| 4 | M54 | Z | 0 | 0 | 0 %100 |
| 5 | MP1A | X | -.626 | -.626 | 0 %100 |
| 6 | MP1A | Z | 0 | 0 | 0 %100 |
| 7 | M39 | X | -.329 | -.329 | 0 %100 |
| 8 | M39 | Z | 0 | 0 | 0 %100 |
| 9 | M40 | X | -.052 | -.052 | 0 %100 |
| 10 | M40 | Z | 0 | 0 | 0 %100 |
| 11 | M42 | X | -.052 | -.052 | 0 %100 |
| 12 | M42 | Z | 0 | 0 | 0 %100 |
| 13 | M43 | X | -.329 | -.329 | 0 %100 |
| 14 | M43 | Z | 0 | 0 | 0 %100 |
| 15 | M44 | X | -.47 | -.47 | 0 %100 |
| 16 | M44 | Z | 0 | 0 | 0 %100 |
| 17 | M45 | X | -.444 | -.444 | 0 %100 |
| 18 | M45 | Z | 0 | 0 | 0 %100 |
| 19 | M48 | X | -.444 | -.444 | 0 %100 |
| 20 | M48 | Z | 0 | 0 | 0 %100 |
| 21 | M53 | X | -1.356 | -1.356 | 0 %100 |
| 22 | M53 | Z | 0 | 0 | 0 %100 |
| 23 | M54A | X | -1.356 | -1.356 | 0 %100 |
| 24 | M54A | Z | 0 | 0 | 0 %100 |
| 25 | M55 | X | -.402 | -.402 | 0 %100 |
| 26 | M55 | Z | 0 | 0 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 27 | M56 | X | -402 | -402 | 0 %100 |
| 28 | M56 | Z | 0 | 0 | 0 %100 |
| 29 | M58 | X | -329 | -329 | 0 %100 |
| 30 | M58 | Z | 0 | 0 | 0 %100 |
| 31 | M59 | X | -052 | -052 | 0 %100 |
| 32 | M59 | Z | 0 | 0 | 0 %100 |
| 33 | M61 | X | -052 | -052 | 0 %100 |
| 34 | M61 | Z | 0 | 0 | 0 %100 |
| 35 | M62 | X | -329 | -329 | 0 %100 |
| 36 | M62 | Z | 0 | 0 | 0 %100 |
| 37 | M63 | X | -47 | -47 | 0 %100 |
| 38 | M63 | Z | 0 | 0 | 0 %100 |
| 39 | M64 | X | -444 | -444 | 0 %100 |
| 40 | M64 | Z | 0 | 0 | 0 %100 |
| 41 | M67 | X | -444 | -444 | 0 %100 |
| 42 | M67 | Z | 0 | 0 | 0 %100 |
| 43 | M72 | X | -1,356 | -1,356 | 0 %100 |
| 44 | M72 | Z | 0 | 0 | 0 %100 |
| 45 | M73 | X | -1,356 | -1,356 | 0 %100 |
| 46 | M73 | Z | 0 | 0 | 0 %100 |
| 47 | M74 | X | -402 | -402 | 0 %100 |
| 48 | M74 | Z | 0 | 0 | 0 %100 |
| 49 | M75 | X | -402 | -402 | 0 %100 |
| 50 | M75 | Z | 0 | 0 | 0 %100 |
| 51 | M76 | X | 0 | 0 | 0 %100 |
| 52 | M76 | Z | 0 | 0 | 0 %100 |
| 53 | M46A | X | 0 | 0 | 0 %100 |
| 54 | M46A | Z | 0 | 0 | 0 %100 |
| 55 | M48A | X | -296 | -296 | 0 %100 |
| 56 | M48A | Z | 0 | 0 | 0 %100 |
| 57 | MP2A | X | -626 | -626 | 0 %100 |
| 58 | MP2A | Z | 0 | 0 | 0 %100 |
| 59 | MP3A | X | -626 | -626 | 0 %100 |
| 60 | MP3A | Z | 0 | 0 | 0 %100 |
| 61 | MP4A | X | -623 | -623 | 0 %100 |
| 62 | MP4A | Z | 0 | 0 | 0 %100 |
| 63 | MP5A | X | -626 | -626 | 0 %100 |
| 64 | MP5A | Z | 0 | 0 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -164 | -164 | 0 %100 |
| 2 | M51 | Z | -095 | -095 | 0 %100 |
| 3 | M54 | X | -164 | -164 | 0 %100 |
| 4 | M54 | Z | -095 | -095 | 0 %100 |
| 5 | MP1A | X | -542 | -542 | 0 %100 |
| 6 | MP1A | Z | -313 | -313 | 0 %100 |
| 7 | M39 | X | -512 | -512 | 0 %100 |
| 8 | M39 | Z | -296 | -296 | 0 %100 |
| 9 | M40 | X | -081 | -081 | 0 %100 |
| 10 | M40 | Z | -047 | -047 | 0 %100 |
| 11 | M42 | X | -081 | -081 | 0 %100 |
| 12 | M42 | Z | -047 | -047 | 0 %100 |
| 13 | M43 | X | -512 | -512 | 0 %100 |
| 14 | M43 | Z | -296 | -296 | 0 %100 |
| 15 | M44 | X | -407 | -407 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 16 | M44 | Z | -235 | -235 | 0 %100 |
| 17 | M45 | X | -385 | -385 | 0 %100 |
| 18 | M45 | Z | -222 | -222 | 0 %100 |
| 19 | M48 | X | -385 | -385 | 0 %100 |
| 20 | M48 | Z | -222 | -222 | 0 %100 |
| 21 | M53 | X | -902 | -902 | 0 %100 |
| 22 | M53 | Z | -521 | -521 | 0 %100 |
| 23 | M54A | X | -902 | -902 | 0 %100 |
| 24 | M54A | Z | -521 | -521 | 0 %100 |
| 25 | M55 | X | -419 | -419 | 0 %100 |
| 26 | M55 | Z | -242 | -242 | 0 %100 |
| 27 | M56 | X | -419 | -419 | 0 %100 |
| 28 | M56 | Z | -242 | -242 | 0 %100 |
| 29 | M58 | X | -044 | -044 | 0 %100 |
| 30 | M58 | Z | -025 | -025 | 0 %100 |
| 31 | M59 | X | -007 | -007 | 0 %100 |
| 32 | M59 | Z | -004 | -004 | 0 %100 |
| 33 | M61 | X | -007 | -007 | 0 %100 |
| 34 | M61 | Z | -004 | -004 | 0 %100 |
| 35 | M62 | X | -044 | -044 | 0 %100 |
| 36 | M62 | Z | -025 | -025 | 0 %100 |
| 37 | M63 | X | -407 | -407 | 0 %100 |
| 38 | M63 | Z | -235 | -235 | 0 %100 |
| 39 | M64 | X | -385 | -385 | 0 %100 |
| 40 | M64 | Z | -222 | -222 | 0 %100 |
| 41 | M67 | X | -385 | -385 | 0 %100 |
| 42 | M67 | Z | -222 | -222 | 0 %100 |
| 43 | M72 | X | -902 | -902 | 0 %100 |
| 44 | M72 | Z | -521 | -521 | 0 %100 |
| 45 | M73 | X | -902 | -902 | 0 %100 |
| 46 | M73 | Z | -521 | -521 | 0 %100 |
| 47 | M74 | X | -273 | -273 | 0 %100 |
| 48 | M74 | Z | -158 | -158 | 0 %100 |
| 49 | M75 | X | -273 | -273 | 0 %100 |
| 50 | M75 | Z | -158 | -158 | 0 %100 |
| 51 | M76 | X | -228 | -228 | 0 %100 |
| 52 | M76 | Z | -132 | -132 | 0 %100 |
| 53 | M46A | X | -228 | -228 | 0 %100 |
| 54 | M46A | Z | -132 | -132 | 0 %100 |
| 55 | M48A | X | -015 | -015 | 0 %100 |
| 56 | M48A | Z | -009 | -009 | 0 %100 |
| 57 | MP2A | X | -542 | -542 | 0 %100 |
| 58 | MP2A | Z | -313 | -313 | 0 %100 |
| 59 | MP3A | X | -542 | -542 | 0 %100 |
| 60 | MP3A | Z | -313 | -313 | 0 %100 |
| 61 | MP4A | X | -539 | -539 | 0 %100 |
| 62 | MP4A | Z | -311 | -311 | 0 %100 |
| 63 | MP5A | X | -542 | -542 | 0 %100 |
| 64 | MP5A | Z | -313 | -313 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F,ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 1 | M51 | X | -284 | -284 | 0 %100 |
| 2 | M51 | Z | -492 | -492 | 0 %100 |
| 3 | M54 | X | -284 | -284 | 0 %100 |
| 4 | M54 | Z | -492 | -492 | 0 %100 |



Company : Maser Consulting
Designer :
Job Number :
Model Name :

Nov 3, 2021
11:06 AM
Checked By: _____

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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft,F.ksf] | Start Location[in.%] | End Location[in.%] | |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|------|
| 5 | MP1A | X | -313 | -313 | 0 | %100 |
| 6 | MP1A | Z | -542 | -542 | 0 | %100 |
| 7 | M39 | X | -288 | -288 | 0 | %100 |
| 8 | M39 | Z | -498 | -498 | 0 | %100 |
| 9 | M40 | X | -045 | -045 | 0 | %100 |
| 10 | M40 | Z | -079 | -079 | 0 | %100 |
| 11 | M42 | X | -045 | -045 | 0 | %100 |
| 12 | M42 | Z | -079 | -079 | 0 | %100 |
| 13 | M43 | X | -288 | -288 | 0 | %100 |
| 14 | M43 | Z | -498 | -498 | 0 | %100 |
| 15 | M44 | X | -235 | -235 | 0 | %100 |
| 16 | M44 | Z | -407 | -407 | 0 | %100 |
| 17 | M45 | X | -222 | -222 | 0 | %100 |
| 18 | M45 | Z | -385 | -385 | 0 | %100 |
| 19 | M48 | X | -222 | -222 | 0 | %100 |
| 20 | M48 | Z | -385 | -385 | 0 | %100 |
| 21 | M53 | X | -207 | -207 | 0 | %100 |
| 22 | M53 | Z | -358 | -358 | 0 | %100 |
| 23 | M54A | X | -207 | -207 | 0 | %100 |
| 24 | M54A | Z | -358 | -358 | 0 | %100 |
| 25 | M55 | X | -239 | -239 | 0 | %100 |
| 26 | M55 | Z | -415 | -415 | 0 | %100 |
| 27 | M56 | X | -239 | -239 | 0 | %100 |
| 28 | M56 | Z | -415 | -415 | 0 | %100 |
| 29 | M58 | X | -017 | -017 | 0 | %100 |
| 30 | M58 | Z | -03 | -03 | 0 | %100 |
| 31 | M59 | X | -003 | -003 | 0 | %100 |
| 32 | M59 | Z | -005 | -005 | 0 | %100 |
| 33 | M61 | X | -003 | -003 | 0 | %100 |
| 34 | M61 | Z | -005 | -005 | 0 | %100 |
| 35 | M62 | X | -017 | -017 | 0 | %100 |
| 36 | M62 | Z | -03 | -03 | 0 | %100 |
| 37 | M63 | X | -235 | -235 | 0 | %100 |
| 38 | M63 | Z | -407 | -407 | 0 | %100 |
| 39 | M64 | X | -222 | -222 | 0 | %100 |
| 40 | M64 | Z | -385 | -385 | 0 | %100 |
| 41 | M67 | X | -222 | -222 | 0 | %100 |
| 42 | M67 | Z | -385 | -385 | 0 | %100 |
| 43 | M72 | X | -207 | -207 | 0 | %100 |
| 44 | M72 | Z | -358 | -358 | 0 | %100 |
| 45 | M73 | X | -207 | -207 | 0 | %100 |
| 46 | M73 | Z | -358 | -358 | 0 | %100 |
| 47 | M74 | X | -155 | -155 | 0 | %100 |
| 48 | M74 | Z | -269 | -269 | 0 | %100 |
| 49 | M75 | X | -155 | -155 | 0 | %100 |
| 50 | M75 | Z | -269 | -269 | 0 | %100 |
| 51 | M76 | X | -395 | -395 | 0 | %100 |
| 52 | M76 | Z | -684 | -684 | 0 | %100 |
| 53 | M46A | X | -395 | -395 | 0 | %100 |
| 54 | M46A | Z | -684 | -684 | 0 | %100 |
| 55 | M48A | X | -05 | -05 | 0 | %100 |
| 56 | M48A | Z | -087 | -087 | 0 | %100 |
| 57 | MP2A | X | -313 | -313 | 0 | %100 |
| 58 | MP2A | Z | -542 | -542 | 0 | %100 |
| 59 | MP3A | X | -313 | -313 | 0 | %100 |
| 60 | MP3A | Z | -542 | -542 | 0 | %100 |
| 61 | MP4A | X | -311 | -311 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[lb/f... | End Magnitude[lb/ft.F.ksf] | Start Location[in.%] | End Location[in.%] |
|--------------|-----------|-------------------------|----------------------------|----------------------|--------------------|
| 62 | MP4A | Z | -539 | -539 | 0 %100 |
| 63 | MP5A | X | -313 | -313 | 0 %100 |
| 64 | MP5A | Z | -542 | -542 | 0 %100 |

Member Area Loads

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

Envelope Joint Reactions

| Joint | X [lb] | LC | Y [lb] | LC | Z [lb] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC | | |
|-------|---------|-----|-----------|----|----------|----|-----------|----|-----------|----|-----------|----|-------|----|
| 1 | N96A | max | 1659.882 | 46 | 1318.006 | 18 | 238.847 | 2 | -.108 | 75 | 0 | 75 | -.103 | 68 |
| 2 | | min | -596.33 | 49 | 413.319 | 68 | -3101.6 | 20 | -.346 | 15 | 0 | 1 | -.328 | 20 |
| 3 | N60A | max | 595.996 | 49 | 874.221 | 24 | 3085.664 | 14 | -.075 | 69 | 0 | 75 | -.069 | 74 |
| 4 | | min | -1637.333 | 41 | 282.533 | 68 | -165.902 | 8 | -.237 | 21 | 0 | 1 | -.213 | 22 |
| 5 | N62A | max | 1133.126 | 9 | 49.953 | 39 | 858.763 | 9 | 0 | 75 | 0 | 75 | 0 | 75 |
| 6 | | min | -1133.073 | 3 | -4.231 | 49 | -859.968 | 3 | 0 | 1 | 0 | 1 | 0 | 1 |
| 7 | Totals: | max | 1896.153 | 9 | 2221.519 | 16 | 2738.673 | 1 | | | | | | |
| 8 | | min | -1896.15 | 3 | 709.935 | 75 | -2738.669 | 7 | | | | | | |

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

| Member | Shape | Code Check | Loc[in] | LC | Shear ... | Loc[in] | Dir | LC | phi*Pnc ... | phi*Pnt [...] | phi*Mn y... | phi*Mn z... | Cb | Eqn |
|--------|-------|-------------|---------|--------|-----------|---------|--------|----|-------------|---------------|-------------|-------------|-------|------------|
| 1 | M54A | PL3/8X3 1/2 | .733 | 0 | 9 | .055 | 0 | y | 4 | 39210.6... | 42525 | .332 | 3.101 | 1...H1-1b |
| 2 | M44 | PIPE 2.0 | .551 | 10.599 | 9 | .087 | 10.599 | | 3 | 30169.2... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 3 | M59 | PL3/8X3 1/2 | .518 | 0 | 19 | .080 | 2.269 | y | 44 | 41552.9... | 42525 | .332 | 3.101 | 1...H1-1b |
| 4 | M40 | PL3/8X3 1/2 | .516 | 0 | 43 | .129 | 0 | y | 44 | 41552.9... | 42525 | .332 | 3.101 | 1...H1-1b |
| 5 | M53 | PL3/8X3 1/2 | .509 | 0 | 3 | .049 | 0 | y | 17 | 39210.6... | 42525 | .332 | 3.101 | 1...H1-1b |
| 6 | M61 | PL3/8X3 1/2 | .414 | 0 | 14 | .090 | 0 | y | 45 | 41552.9... | 42525 | .332 | 3.101 | 1...H1-1b |
| 7 | M42 | PL3/8X3 1/2 | .387 | 0 | 48 | .135 | 2.269 | y | 39 | 41552.9... | 42525 | .332 | 3.101 | 1...H1-1b |
| 8 | MP3A | PIPE 2.0 | .386 | 51 | 7 | .140 | 51 | | 5 | 20866.7... | 32130 | 1.872 | 1.872 | 2...H1-1b |
| 9 | M39 | PIPE 2.0 | .373 | 65.25 | 44 | .127 | 6.75 | | 9 | 20866.7... | 32130 | 1.872 | 1.872 | 2...H1-1b |
| 10 | M58 | PIPE 2.0 | .346 | 65.25 | 19 | .077 | 72 | | 16 | 20866.7... | 32130 | 1.872 | 1.872 | 2...H1-1b |
| 11 | MP5A | PIPE 2.0 | .343 | 45.625 | 42 | .048 | 5 | | 42 | 23808.54 | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 12 | M62 | PIPE 2.0 | .306 | 65.25 | 14 | .062 | 6.75 | | 30 | 20866.7... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 13 | M43 | PIPE 2.0 | .301 | 64.5 | 37 | .184 | 6.75 | | 3 | 20866.7... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 14 | M76 | L4X3X6 | .287 | 7.292 | 19 | .165 | 4.375 | z | 19 | 79876.0... | 80676 | 2.686 | 7.063 | 1...H2-1 |
| 15 | M46A | L4X3X6 | .287 | 7.292 | 13 | .164 | 4.375 | z | 13 | 79876.0... | 80676 | 2.686 | 7.063 | 1...H2-1 |
| 16 | M51 | PIPE 2.5 | .262 | 101.25 | 8 | .104 | 142.5 | | 1 | 10110.2... | 50715 | 3.596 | 3.596 | 1...H1-1b |
| 17 | M56 | HSS1.5X0.06 | .252 | 23.595 | 48 | .028 | 46.228 | | 6 | 5610.868 | 8550.159 | .327 | .327 | 1...H1-1a |
| 18 | M54 | PIPE 2.5 | .241 | 39.375 | 44 | .098 | 142.5 | | 31 | 10110.2... | 50715 | 3.596 | 3.596 | 2...H1-1b |
| 19 | M45 | HSS1.5X0.06 | .216 | 16.5 | 45 | .032 | 36 | | 21 | 6622.566 | 8550.159 | .327 | .327 | 1...H1-1a |
| 20 | M55 | HSS1.5X0.06 | .205 | 23.595 | 48 | .030 | 46.228 | | 3 | 5610.868 | 8550.159 | .327 | .327 | 1...H1-1a |
| 21 | M75 | HSS1.5X0.06 | .202 | 45.265 | 15 | .024 | 46.228 | | 7 | 5610.868 | 8550.159 | .327 | .327 | 1...H1-1a |
| 22 | MP2A | PIPE 2.0 | .179 | 8.25 | 29 | .033 | 8.25 | | 25 | 20866.7... | 32130 | 1.872 | 1.872 | 2...H1-1b |
| 23 | MP1A | PIPE 2.0 | .179 | 5 | 49 | .043 | 5 | | 3 | 23808.54 | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 24 | M64 | HSS1.5X0.06 | .158 | 0 | 15 | .033 | 0 | | 20 | 6622.566 | 8550.159 | .327 | .327 | 1...H1-1b* |
| 25 | MP4A | PIPE 2.0 | .152 | 44.674 | 41 | .041 | 44.674 | | 43 | 24104.6... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 26 | M48 | HSS1.5X0.06 | .109 | 0 | 45 | .072 | 0 | | 16 | 6622.566 | 8550.159 | .327 | .327 | 1...H1-1b* |
| 27 | M74 | HSS1.5X0.06 | .091 | 23.114 | 14 | .033 | 46.228 | | 8 | 5610.868 | 8550.159 | .327 | .327 | 1...H1-1b |
| 28 | M67 | HSS1.5X0.06 | .087 | 0 | 15 | .072 | 0 | | 15 | 6622.566 | 8550.159 | .327 | .327 | 1...H1-1b* |
| 29 | M48A | PIPE 2.5 | .053 | 0 | 39 | .004 | 0 | | 20 | 34326.0... | 50715 | 3.596 | 3.596 | 1...H1-1b |
| 30 | M73 | PL3/8X3 1/2 | .017 | 0 | 4 | .052 | 4.25 | y | 13 | 39210.6... | 42525 | .332 | 3.068 | 1 H1-1b |
| 31 | M72 | PL3/8X3 1/2 | .017 | 0 | 4 | .052 | 4.25 | y | 13 | 39210.6... | 42525 | .332 | 3.068 | 1 H1-1b |



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name :

Nov 3, 2021
 11:06 AM
 Checked By: _____

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

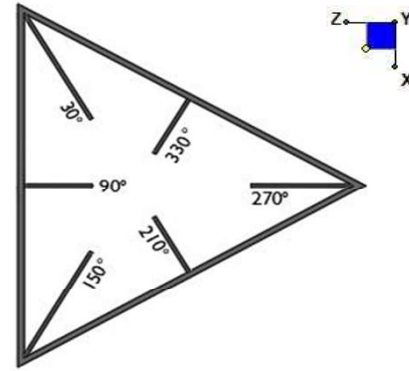
| Member | Shape | Code Check | Loc[in] | LC | Shear | Loc[in] | Dir | LC | phi*Pnc | phi*Pnt | phi*Mn y | phi*Mn z | Cb | Eqn |
|--------|-------|------------|---------|----|-------|---------|------|----|------------|---------|----------|----------|------|--------|
| 32 | M63 | PIPE_2.0 | .015 | 0 | 14 | .008 | 27.5 | 13 | 30169.2... | 32130 | 1.872 | 1.872 | 1... | H1-1b* |



I. Mount-to-Tower Connection Check

RISA Model Data

| Nodes (labeled per RISA) | Orientation (per graphic of typical platform) |
|-----------------------------|--|
| N96A | 90 |
| N60A | 90 |
| | |
| | |
| | |
| | |
| | |
| | |



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):

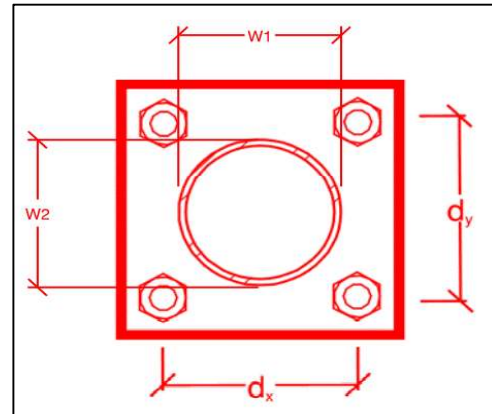
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

| |
|---------------|
| yes |
| 2 |
| 6 |
| 1.75 |
| U-Bolt |
| 0.5 |
| 7.8 |
| 3.1 |
| 16.3 |
| 9.8 |
| 23.9%* |
| 15.8% |



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

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

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

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

Base Requirements:

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

Photo Requirements:

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

- Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

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

Issue:

Response:

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

- Yes No

Contractor certifies no new damage/obstructions created during the current installation:

- Yes No

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

- Safety climb in good condition with no obstructions Safety Climb Damaged
 Safety Climb Obstructed

Comments:

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

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

OR

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

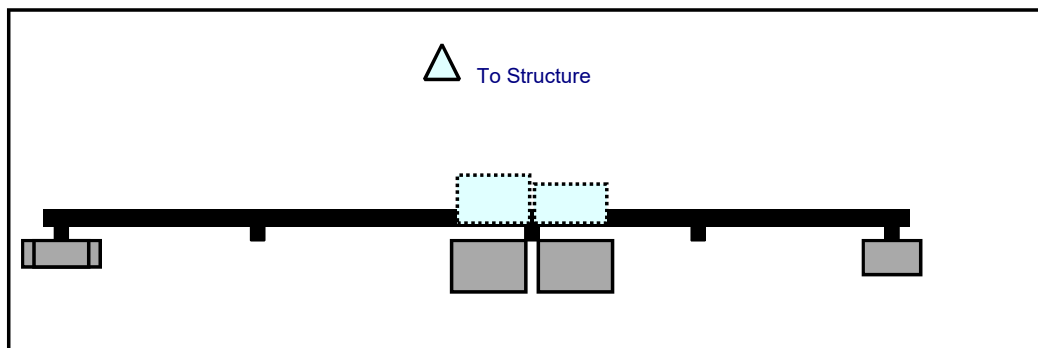
Special Instruction Confirmation:

The contractor has read and acknowledges the above special instructions.

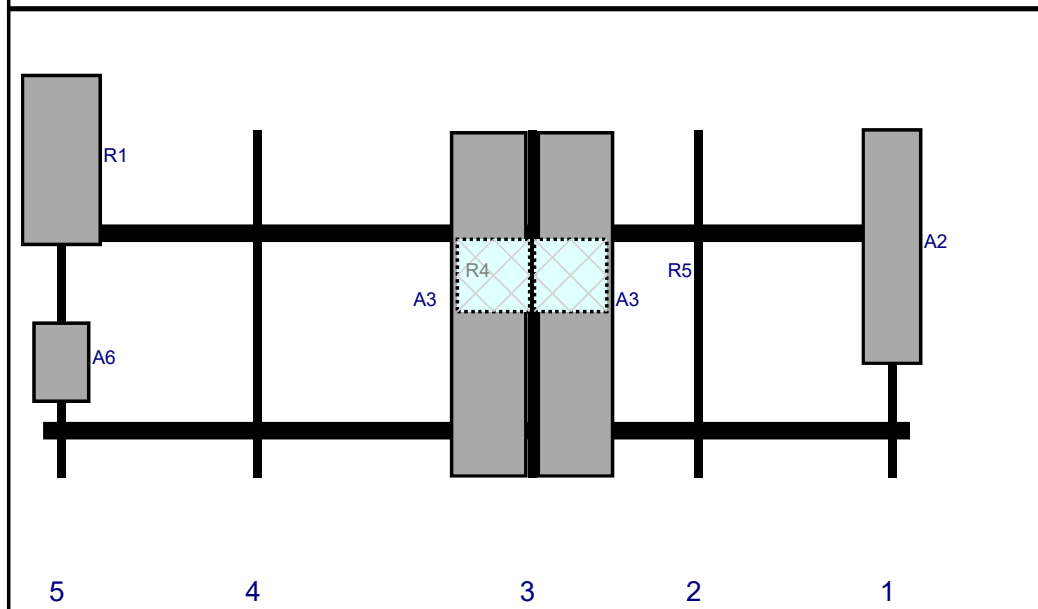
Certifying Individual:

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

Plan View

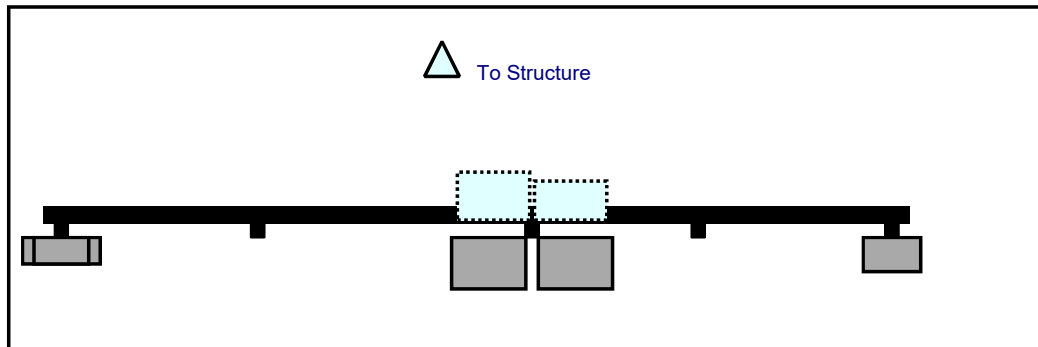


Front View
Looking at Structure

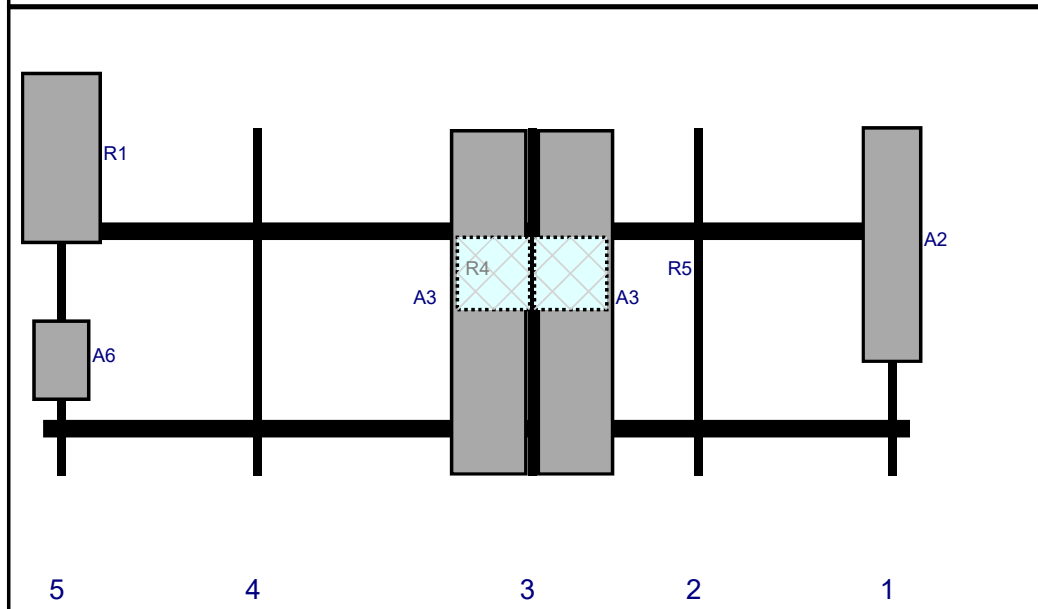


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A2 | LNx-6512DS-A1M | 48.5 | 11.9 | 176.25 | 1 | a | Front | 24 | 0 | Retained | 10/25/2021 |
| A3 | MX06FRO660-03 | 71.3 | 15.4 | 101.5 | 3 | a | Front | 36 | 9 | Retained | 10/25/2021 |
| A3 | MX06FRO660-03 | 71.3 | 15.4 | 101.5 | 3 | b | Front | 36 | -9 | Retained | 10/25/2021 |
| R4 | B2/B66A RRH-BR049 | 15 | 15 | 101.5 | 3 | a | Behind | 30 | -8 | Retained | 10/25/2021 |
| R5 | B5/B13 RRH-BR04C | 15 | 15 | 101.5 | 3 | a | Behind | 30 | 8 | Retained | 10/25/2021 |
| A6 | XXDWMM-12.5-65-8T-CBRS | 16.2 | 11.4 | 3.75 | 5 | a | Front | 48 | 0 | Retained | 10/25/2021 |
| R1 | MT6407-77A | 35.1 | 16.1 | 3.75 | 5 | a | Front | 6 | 0 | Added | |

Plan View

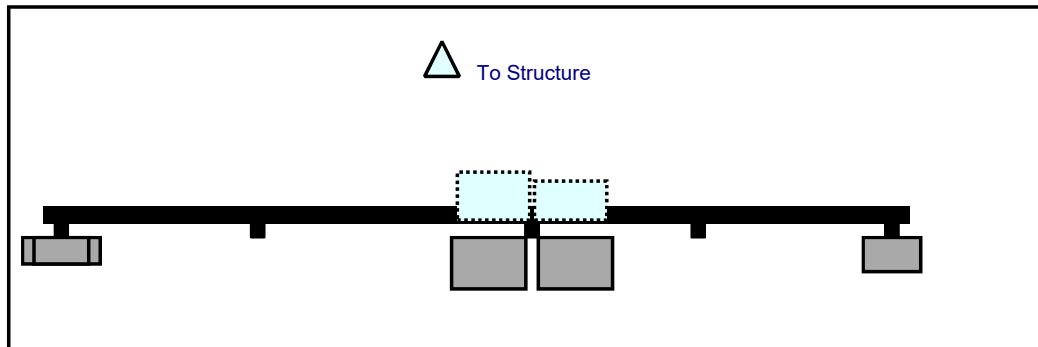


Front View
Looking at Structure

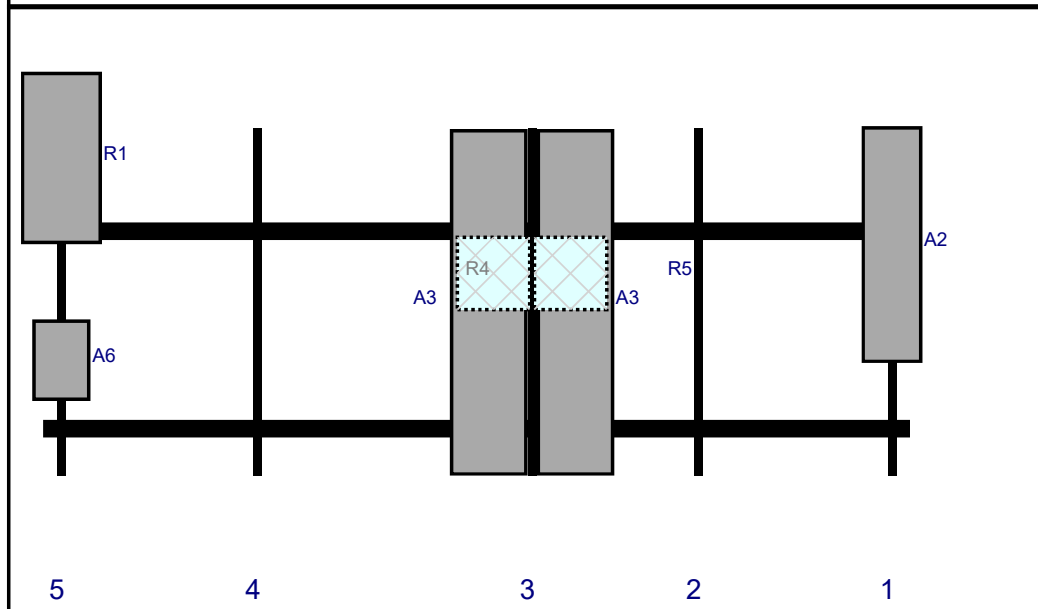


| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A2 | LNx-6512DS-A1M | 48.5 | 11.9 | 176.25 | 1 | a | Front | 24 | 0 | Retained | 10/25/2021 |
| A3 | MX06FRO660-03 | 71.3 | 15.4 | 101.5 | 3 | a | Front | 36 | 9 | Retained | 10/25/2021 |
| A3 | MX06FRO660-03 | 71.3 | 15.4 | 101.5 | 3 | b | Front | 36 | -9 | Retained | 10/25/2021 |
| R4 | B2/B66A RRH-BR049 | 15 | 15 | 101.5 | 3 | a | Behind | 30 | -8 | Retained | 10/25/2021 |
| R5 | B5/B13 RRH-BR04C | 15 | 15 | 101.5 | 3 | a | Behind | 30 | 8 | Retained | 10/25/2021 |
| A6 | XXDWMM-12.5-65-8T-CBRS | 16.2 | 11.4 | 3.75 | 5 | a | Front | 48 | 0 | Retained | 10/25/2021 |
| R1 | MT6407-77A | 35.1 | 16.1 | 3.75 | 5 | a | Front | 6 | 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 |
|------|------------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A2 | LNx-6512DS-A1M | 48.5 | 11.9 | 176.25 | 1 | a | Front | 24 | 0 | Retained | 10/25/2021 |
| A3 | MX06FRO660-03 | 71.3 | 15.4 | 101.5 | 3 | a | Front | 36 | 9 | Retained | 10/25/2021 |
| A3 | MX06FRO660-03 | 71.3 | 15.4 | 101.5 | 3 | b | Front | 36 | -9 | Retained | 10/25/2021 |
| R4 | B2/B66A RRH-BR049 | 15 | 15 | 101.5 | 3 | a | Behind | 30 | -8 | Retained | 10/25/2021 |
| R5 | B5/B13 RRH-BR04C | 15 | 15 | 101.5 | 3 | a | Behind | 30 | 8 | Retained | 10/25/2021 |
| A6 | XXDWMM-12.5-65-8T-CBRS | 16.2 | 11.4 | 3.75 | 5 | a | Front | 48 | 0 | Retained | 10/25/2021 |
| R1 | MT6407-77A | 35.1 | 16.1 | 3.75 | 5 | a | Front | 6 | 0 | Added | |

Maser Consulting Connecticut

Site Information

Site ID: 468757-VZW / WATERFORD CT
Site Name: WATERFORD CT
Carrier Name: Verizon Wireless
Address: 53 Dayton Rd.
Waterford, Connecticut 06385
New London County
Latitude: 41.377839°
Longitude: -72.139347°

Structure Information

Tower Type: 180-Ft Monopole
Mount Type: 15.00-Ft Sector Frame

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,



Digitally signed by Justin Linette
Date: 2021.11.03 16:24:38-04'00'

Justin Linette, P.E.
Technical Manager

Site Name: **WATERFORD CT**
 Cumulative Power Density

| Operator | Operating Frequency | Number of Trans. | ERP Per Trans. | Total ERP | Distance to Target | Calculated Power Density | Maximum Permissible Exposure* | Fraction of MPE |
|---|---------------------|------------------|----------------|-----------|--------------------|--------------------------|-------------------------------|-----------------|
| | (MHz) | | (watts) | (watts) | (feet) | (mW/cm ²) | (mW/cm ²) | (%) |
| VZW 700 | 751 | 4 | 609 | 2437 | 134.8 | 0.0048 | 0.5007 | 0.96% |
| VZW CDMA | 878.49 | 2 | 357 | 714 | 134.8 | 0.0014 | 0.5857 | 0.24% |
| VZW Cellular | 874 | 4 | 609 | 2437 | 134.8 | 0.0048 | 0.5827 | 0.83% |
| VZW PCS | 1977.5 | 4 | 1462 | 5846 | 134.8 | 0.0116 | 1.0000 | 1.16% |
| VZW AWS | 2120 | 4 | 1496 | 5982 | 134.8 | 0.0118 | 1.0000 | 1.18% |
| VZW CBRS | 3625 | 4 | 42 | 168 | 132.8 | 0.0003 | 1.0000 | 0.03% |
| VZW CBAND | 3730.08 | 4 | 6531 | 26125 | 136.3 | 0.0506 | 1.0000 | 5.06% |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Total Percentage of Maximum Permissible Exposure | | | | | | | | 9.46% |

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

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

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



205 ft

RD

54

53 DAYTON ROAD

Location 53 DAYTON ROAD

Mblu 92 / 1844 /

Acct# 00158300

Owner COHANZIE FIRE COMPANY NO 5 INC

Assessment \$1,335,410

Appraisal \$1,907,740

PID 1844

Building Count 2

Current Value

| Appraisal | | | |
|----------------|--------------|-----------|-------------|
| Valuation Year | Improvements | Land | Total |
| 2017 | \$981,150 | \$926,590 | \$1,907,740 |

| Assessment | | | |
|----------------|--------------|-----------|-------------|
| Valuation Year | Improvements | Land | Total |
| 2017 | \$686,800 | \$648,610 | \$1,335,410 |

Parcel Addresses

| Additional Addresses | | |
|----------------------|-----------------|-----------|
| Address | City, State Zip | Type |
| 53 DAYTON ROAD | | Secondary |

Owner of Record

Owner COHANZIE FIRE COMPANY NO 5 INC
Co-Owner

Sale Price \$0
Certificate
Book & Page 0095/0157
Sale Date 11/12/1952
Instrument 00

Ownership History

| Ownership History | | | | | |
|--------------------------------|------------|-------------|-------------|------------|------------|
| Owner | Sale Price | Certificate | Book & Page | Instrument | Sale Date |
| COHANZIE FIRE COMPANY NO 5 INC | \$0 | | 0095/0157 | 00 | 11/12/1952 |

Building Information

Building 1 : Section 1

Year Built: 1950
Living Area: 8,615
Replacement Cost: \$803,074
Building Percent Good: 68

Building Attributes

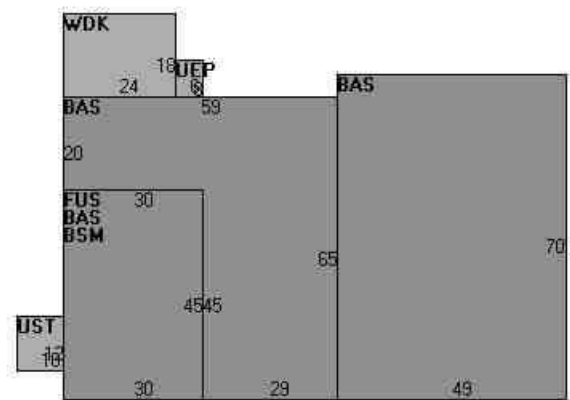
| Field | Description |
|------------------|--------------|
| STYLE | Fire Station |
| MODEL | Comm/Ind |
| Grade | Above Ave |
| Stories: | 1.00 |
| Occupancy | 1.00 |
| Exterior Wall 1 | Vinyl Siding |
| Exterior Wall 2 | Brick Veneer |
| Roof Structure | Gambrel |
| Roof Cover | Asphalt |
| Interior Wall 1 | Plaster |
| Interior Wall 2 | Drywall |
| Interior Floor 1 | Concrete |
| Interior Floor 2 | Comp Tile |
| Heating Fuel | Oil |
| Heating Type | Hot Water |
| % Central Air | 0 |
| Foundation | Poured Conc |
| Bldg Use | Exempt Comm |
| Total Rooms | 0 |
| Total Bedrms | 0 |
| Total Fixtures | 22 |
| % Wet Sprinkler | 100 |
| % Dry Sprinkler | |
| 1st Floor Use | |
| Heat/AC | Typical |
| Frame Type | MASONRY |
| Baths/Plumbing | AVERAGE |
| % Finished | 60 |
| Class | C |
| Wall Height | 11.00 |
| Usrflid 214 | |

Building Photo



(<http://images.vgsi.com/photos/WaterfordCTPhotos//00\00\88\39.JPG>)

Building Layout



(http://images.vgsi.com/photos/WaterfordCTPhotos//Sketches/1844_1844.j)

| Building Sub-Areas (sq ft) | | | <u>Legend</u> |
|----------------------------|-------------------------|------------|---------------|
| Code | Description | Gross Area | Living Area |
| BAS | First Floor | 7,265 | 7,265 |
| FUS | Finished Upper Story | 1,350 | 1,350 |
| BSM | Basement | 1,350 | 0 |
| UEP | Unfin. Enclosed Porch | 48 | 0 |
| UST | Unfinished Utility Area | 120 | 0 |
| WDK | Deck | 432 | 0 |
| | | 10,565 | 8,615 |

Building 2 : Section 1

Year Built: 1950
Living Area: 3,360

Replacement Cost: \$368,762

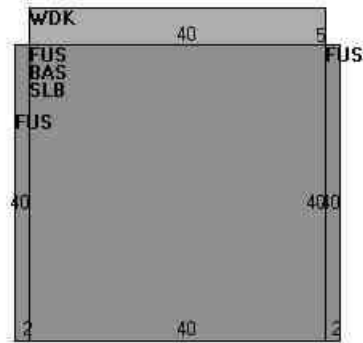
Building Percent Good: 62

Building Photo



(<http://images.vgsi.com/photos/WaterfordCTPhotos//default.jpg>)

Building Layout



(http://images.vgsi.com/photos/WaterfordCTPhotos//Sketches/1844_20074)

| Building Attributes : Bldg 2 of 2 | |
|-----------------------------------|----------------|
| Field | Description |
| STYLE | Fire Station |
| MODEL | Comm/Ind |
| Grade | Above Ave |
| Stories: | 2.00 |
| Occupancy | 1.00 |
| Exterior Wall 1 | Vinyl Siding |
| Exterior Wall 2 | Brick Veneer |
| Roof Structure | Gambrel |
| Roof Cover | Asphalt |
| Interior Wall 1 | Plaster |
| Interior Wall 2 | Drywall |
| Interior Floor 1 | Concrete |
| Interior Floor 2 | Comp Tile |
| Heating Fuel | Oil |
| Heating Type | Forced Hot Air |
| % Central Air | 0 |
| Foundation | Poured Conc |
| Bldg Use | Exempt Comm |
| Total Rooms | 0 |
| Total Bedrms | 0 |
| Total Fixtures | 0 |
| % Wet Sprinkler | |
| % Dry Sprinkler | |
| 1st Floor Use | |
| Heat/AC | Typical |
| Frame Type | MASONRY |
| Baths/Plumbing | LIGHT |
| % Finished | 0 |
| Class | C |
| Wall Height | 11.00 |
| Usrflid 214 | |

| Building Sub-Areas (sq ft) | | | Legend |
|----------------------------|----------------------|------------|-------------|
| Code | Description | Gross Area | Living Area |
| FUS | Finished Upper Story | 1,760 | 1,760 |
| BAS | First Floor | 1,600 | 1,600 |
| SLB | Slab | 1,600 | 0 |
| WDK | Deck | 200 | 0 |
| | | 5,160 | 3,360 |

Extra Features

| Extra Features | | | | Legend |
|----------------|---------------|-------------|---------|--------|
| Code | Description | Size | Value | Bldg # |
| FBM | Finished Bsmt | 475.00 S.F. | \$3,230 | 1 |

Land

Land Use

Use Code 920
Description Exempt Comm
Zone R-40
Neighborhood 200
Alt Land Appr Category No

Land Line Valuation

Size (Acres) 9.91
Frontage 0
Depth 0
Assessed Value \$648,610
Appraised Value \$926,590

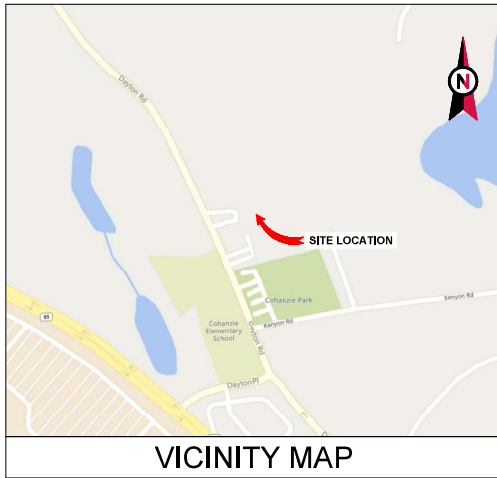
Outbuildings

| Outbuildings | | | | | | Legend |
|--------------|-------------|----------|-----------------|-----------------|----------|--------|
| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
| FN1 | Fence | | | 928.00 L.F. | \$7,660 | 2 |
| FGR1 | Garage | MS | Masonry | 220.00 S.F. | \$3,300 | 1 |
| LSUM | Lump Sum | | | 120000.00 UNITS | \$90,000 | 2 |
| PAV1 | Paving | AS | Asphalt | 39900.00 S.F. | \$62,340 | 1 |
| SHD1 | Shed | FR | Frame | 800.00 S.F. | \$6,000 | 1 |
| FN1 | Fence | | | 1408.00 L.F. | \$7,740 | 1 |
| FOP | Porch | | | 1600.00 S.F. | \$24,000 | 1 |
| LSUM | Lump Sum | | | 4320.00 UNITS | \$2,160 | 1 |

Valuation History

| Appraisal | | | |
|----------------|--------------|-----------|-------------|
| Valuation Year | Improvements | Land | Total |
| 2020 | \$981,150 | \$926,590 | \$1,907,740 |
| 4000 | \$981,150 | \$926,590 | \$1,907,740 |

| Assessment | | | |
|----------------|--------------|-----------|-------------|
| Valuation Year | Improvements | Land | Total |
| 2020 | \$686,800 | \$648,610 | \$1,335,410 |
| 4000 | \$686,800 | \$648,610 | \$1,335,410 |



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: WATERFORD CT
 ATC SITE NUMBER: 411183
 VERIZON SITE NAME: WATERFORD CT
 VERIZON SITE NUMBER: 468757
 SITE ADDRESS: 53 DAYTON RD.
 WATERFORD, CT 06385



LOCATION MAP

VERIZON
 ANTENNA AMENDMENT DRAWINGS

| COMPLIANCE CODE | PROJECT SUMMARY | PROJECT DESCRIPTION | SHEET INDEX | | | | | |
|--|--|---|-------------|--------------|--------------------------------|-------|----------|-----|
| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2018 CONNECTICUT STATE BUILDING CODE, INCORPORATING THE 2015 IBC. 2. 2017 NATIONAL ELECTRICAL CODE - NFPA 70 3. 2015 NFPA 101 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10 5. AMERICAN CONCRETE INSTITUTE 6. 2017 NATIONAL ELECTRICAL SAFETY CODE (NESC) 7. TIA 607 FOR GROUNDING 8. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 9. TELCORDIA GR-1275 10. ANSII T1.311 | <u>SITE ADDRESS:</u> 53 DAYTON RD. WATERFORD, CT 06385 COUNTY: NEW LONDON <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.377839 LONGITUDE: -72.139347 GROUND ELEVATION: 186' AMSL | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL (3) ANTENNA(S) EXISTING (9) ANTENNA(S), (9) RRH(S), (2) OVP(S), (2) HYBRID CABLE(S) AND (6) COAX CABLE(S) TO REMAIN | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: | |
| | <u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> COLLIER'S ENGINEERING & DESIGN CT, P.C. 135 NEW ROAD MADISON, CT 06443 PROJECT #: 21904160A <u>PROPERTY OWNER:</u> COHANZIE VOLUNTEER FIRE SERVICE BENEFIT 53 DAYTON ROAD WATERFORD, CT 06385 | 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.81000 (B)(7). | | G-001 | TITLE SHEET | 0 | 12/23/21 | AJC |
| <u>UTILITY COMPANIES</u> POWER COMPANY: NORTHEAST PHONE: (860) 665-6792 TELEPHONE COMPANY: UNKNOWN PHONE: (555) 555-5555 | | <u>PROJECT NOTES</u> <u>PROJECT LOCATION DIRECTIONS</u> TAKE I-91 S TOWARDS NEW HAVEN, STAY IN LEFT LANE, GET ON I-95 N TO EXIT 76 (LEFT HAND EXIT I-395 N), I-395 N TO EXIT 77 (RTE 85), TAKE RIGHT AT END OF THE RAMP (RTE 85 S), TAKE LEFT AT TRAFFIC LIGHT (DAYTON), FOLLOW TO FIRE HOUSE (COHANZIE FIRE CO. #5), GO IN PARKING LOT OF FIREHOUSE AND IN THE BACK LEFT THERE IS A CHAIN COMBO 4667, GO IN GATE TO TOWER COMBO 4667 AND UP STAIRS, WE ARE IN THE FIRST DOOR WITH THE CODE PAD 4667, THEN THE ROOM ON LEFT (CT KEY) GENERATOR COMPOUND COMBO IS 9687 | | G-002 | GENERAL NOTES | 0 | 12/23/21 | AJC |
| | | | | C-101 | DETAILED SITE PLAN | 0 | 12/23/21 | AJC |
| | | | | C-201 | TOWER ELEVATION | 0 | 12/23/21 | AJC |
| | | | | C-401 | ANTENNA INFORMATION & SCHEDULE | 0 | 12/23/21 | AJC |
| | | | | C-501 | CONSTRUCTION DETAILS | 0 | 12/23/21 | AJC |
| | | | | E-501 | GROUNDING DETAILS | 0 | 12/23/21 | AJC |
| | | | | R-601 | SUPPLEMENTAL | | | |

AMERICAN TOWER®

Colliers Engineering & Design

www.colliersengineering.com
 Doing Business as **MASER**

MADISON
 135 New Road
 Madison, CT 06443
 Phone: 860.395.0055
 COLLIERS ENGINEERING & DESIGN CT, P.C.
 COLLIER'S ENGINEERING & DESIGN CONSULTANTS

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| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| △ | PRELIM | AJC | 07/23/21 |
| △ | FOR CONSTRUCTION | RMD | 12/23/21 |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
411183

ATC SITE NAME:
WATERFORD CT

VERIZON SITE NAME:
WATERFORD CT

SITE ADDRESS:
 53 DAYTON RD.
 WATERFORD, CT 06385

SEAL:

COA: JPC,0000131



| | |
|--------------|--------------|
| DATE DRAWN: | 07/23/21 |
| ATC JOB NO: | 13698641_D1 |
| CUSTOMER ID: | WATERFORD CT |
| CUSTOMER #: | 468757 |

TITLE SHEET

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| G-001 | 0 |

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GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS. VERIZON THE COMPANY WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND KEEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC TELCO INTERFACE BOX (PIC)
 - C. ICE BRIDGE CABLE TRAY WITH COVER (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPEERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL, SUPPORTING SUBFRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER/AL OR XT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CASSONS, PADS AND/OR ALUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NONSTANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL, SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED, THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHER-PROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.


22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PIPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER INSTALLED OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION


ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT, THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZUPACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETRY (FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIX COAXIAL CABLE SYSTEMS" DATED 10/03. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING.
2. ALL EXTERIOR #6 GREEDED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #Z21213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)


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



AMERICAN TOWER



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| △ | PRELIM | A/JC | 07/23/21 |
| △ | FOR CONSTRUCTION | RMD | 12/23/21 |
| △ | | | |
| △ | | | |


ATC SITE NUMBER:
411183

ATC SITE NAME:
WATERFORD CT


VERIZON SITE NAME:
WATERFORD CT

SITE ADDRESS:
53 DAYTON RD,
WATERFORD, CT 06385

SEAL:



COA: JPC,0000131

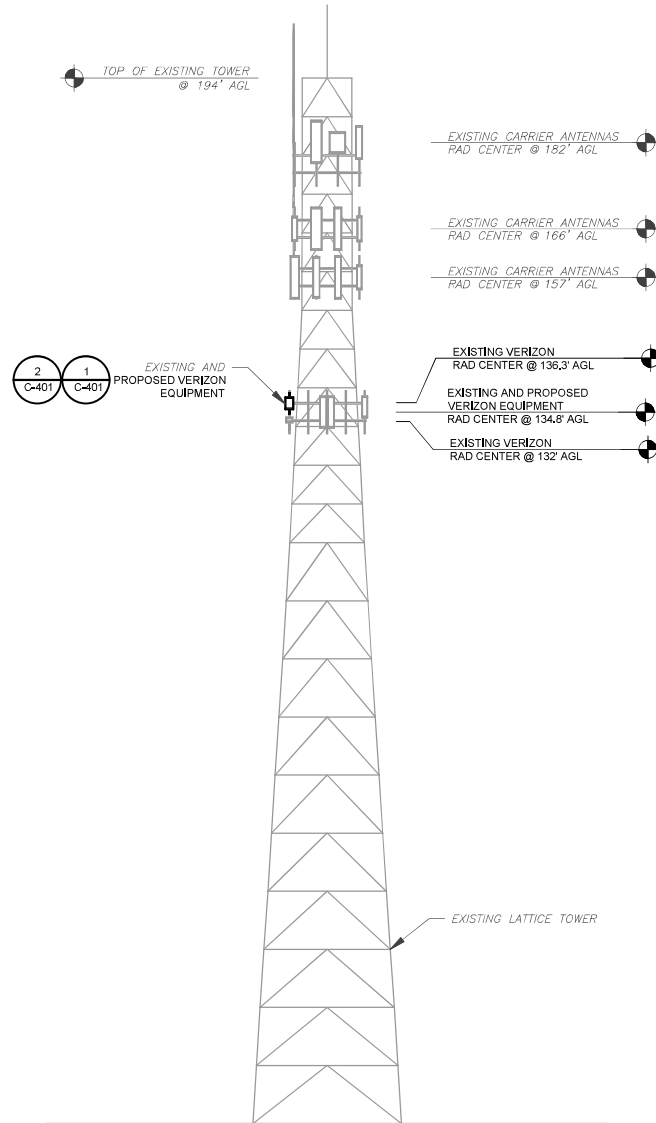


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|--------------|--------------|
| DATE DRAWN: | 07/23/21 |
| ATC JOB NO: | 1369864_D1 |
| CUSTOMER ID: | WATERFORD CT |
| CUSTOMER #: | 468757 |

GENERAL NOTES

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| G-002 | 0 |

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1 TOWER ELEVATION
SCALE: N.T.S.

1. ATC HAS NOT ANALYZED THE EXISTING ANTENNA MOUNT(S) TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR PROPOSED CARRIER LOADING.
2. A STRUCTURAL ANALYSIS TO DETERMINE IF THE ANTENNA MOUNTS CAN ADEQUATELY SUPPORT THE PROPOSED LOADING HAS NOT BEEN PREPARED BY COLLIERS ENGINEERING & DESIGN.
3. IT IS THE RESPONSIBILITY OF THE CLIENT TO CONFIRM THE ADEQUACY OF EXISTING ANTENNA MOUNTS WITH PROPOSED LOADING CONDITIONS PRIOR TO CONSTRUCTION.

- TOWER NOTE:**
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES. USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-RINGS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
 3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
 4. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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| △ | PRELIM | AJC | 07/23/21 |
| △ | FOR CONSTRUCTION | RMD | 12/23/21 |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
411183

ATC SITE NAME:
WATERFORD CT

VERIZON SITE NAME:
WATERFORD CT

SITE ADDRESS:
53 DAYTON RD,
WATERFORD, CT 06385

SEAL:



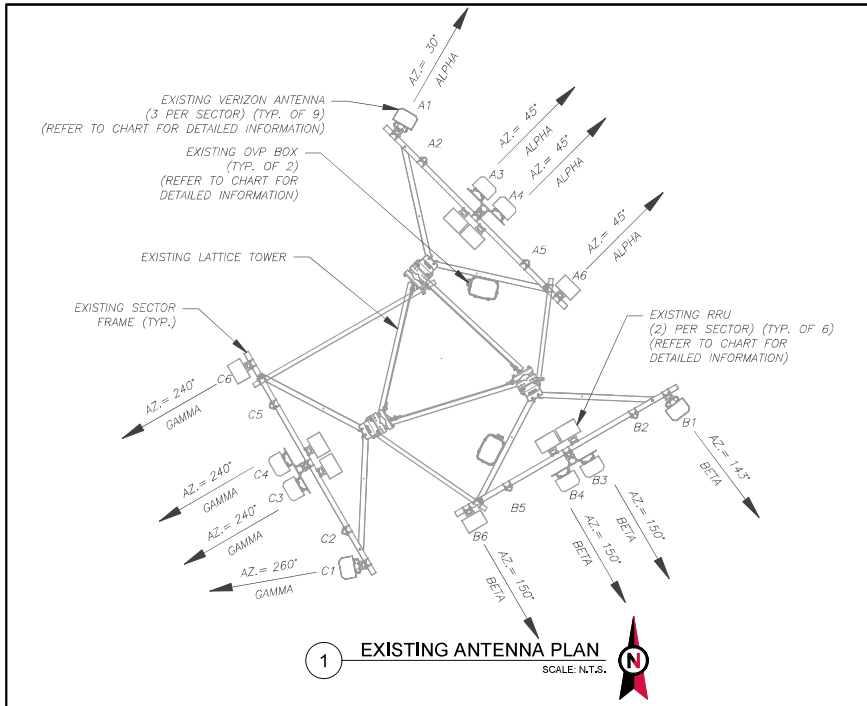
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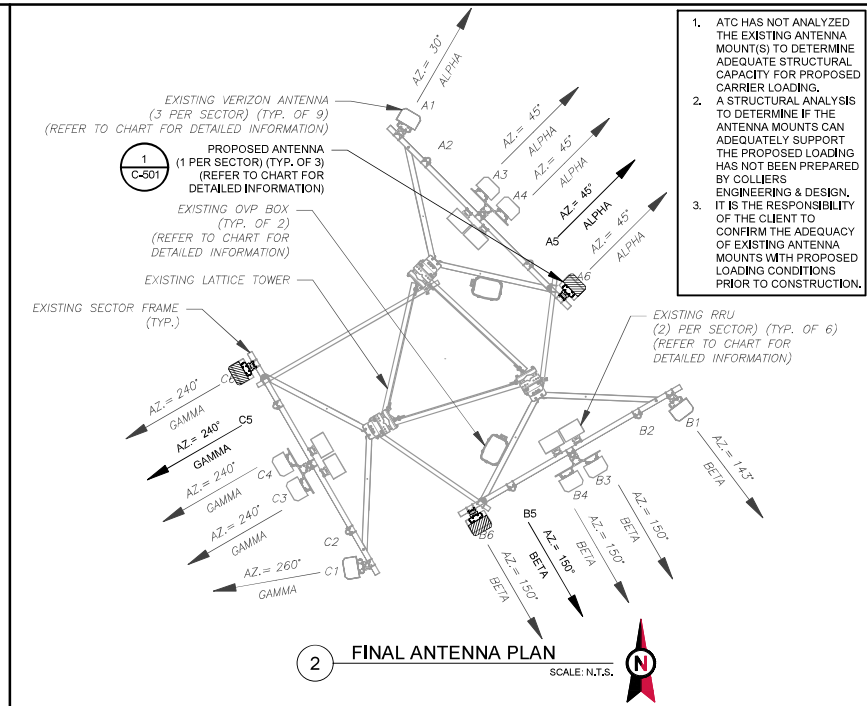
DATE DRAWN: 07/23/21
ATC JOB NO: 13698641_D1
CUSTOMER ID: WATERFORD CT
CUSTOMER #: 468757

TOWER ELEVATION

SHEET NUMBER: C-201
REVISION: 0



1 EXISTING ANTENNA PLAN
SCALE: N.T.S.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

1. ATC HAS NOT ANALYZED THE EXISTING ANTENNA MOUNT(S) TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR PROPOSED CARRIER LOADING.
2. A STRUCTURAL ANALYSIS TO DETERMINE IF THE ANTENNA MOUNTS CAN ADEQUATELY SUPPORT THE PROPOSED LOADING HAS NOT BEEN PREPARED BY COLLIER ENGINEERING & DESIGN.
3. IT IS THE RESPONSIBILITY OF THE CLIENT TO CONFIRM THE ADEQUACY OF EXISTING ANTENNA MOUNTS WITH PROPOSED LOADING CONDITIONS PRIOR TO CONSTRUCTION.

| EXISTING ANTENNA SCHEDULE | | | | | | | | |
|---------------------------|--------|-----------------|-----|-----------------|------|------------------|---------------------|------------------------------------|
| LOCATION | | ANTENNA SUMMARY | | | | | NON ANTENNA SUMMARY | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT |
| ALPHA | 136.8 | 30° | A1 | LNX-6512DS-A1M | 700 | 0/2 | RMN | - |
| | - | - | A2 | - | - | - | - | - |
| | 134.8' | 45° | A3 | MX06FRO660-02 | 850 | 0/2 | RMN | B2/B66A RRU |
| | 134.8' | 45° | A4 | MX06FRO660-02 | AWS | 0/2 | RMN | B5/B13 RRU |
| | - | - | A5 | - | - | - | - | - |
| BETA | 132° | 45° | A6 | CBRS 64T64R MMU | PCS | 0/2 | RMN | - |
| | 136.8 | 143° | B1 | LNX-6512DS-A1M | 700 | 0/2 | RMN | - |
| | - | - | B2 | - | - | - | - | - |
| | 134.8' | 150° | B3 | MX06FRO660-02 | 850 | 0/2 | RMN | B2/B66A RRU |
| | 134.8' | 150° | B4 | MX06FRO660-02 | AWS | 0/2 | RMN | B5/B13 RRU |
| GAMMA | - | - | B5 | - | - | - | - | - |
| | 132° | 150° | B6 | CBRS 64T64R MMU | PCS | 0/2 | RMN | - |
| | 136.8 | 260° | C1 | LNX-6512DS-A1M | 700 | 0/2 | RMN | - |
| | - | - | C2 | - | - | - | - | - |
| | 134.8' | 240° | C3 | MX06FRO660-02 | 850 | 0/2 | RMN | B2/B66A RRU |
| | 134.8' | 240° | C4 | MX06FRO660-02 | AWS | 0/2 | RMN | B5/B13 RRU |
| GAMMA | - | - | C5 | - | - | - | - | - |
| | 132° | 240° | C6 | CBRS 64T64R MMU | PCS | 0/2 | RMN | - |

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

| FINAL ANTENNA SCHEDULE | | | | | | | | |
|------------------------|--------|-----------------|-----------------|-----------------|------|------------------|---------------------|------------------------------------|
| LOCATION | | ANTENNA SUMMARY | | | | | NON ANTENNA SUMMARY | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH/ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT |
| ALPHA | 136.8 | 30° | A1 | LNX-6512DS-A1M | 700 | 0/2 | RMN | - |
| | - | - | A2 | - | - | - | - | - |
| | 134.8' | 45° | A3 | MX06FRO660-02 | 850 | 0/2 | RMN | B2/B66A RRU |
| | 134.8' | 45° | A4 | MX06FRO660-02 | AWS | 0/2 | RMN | B5/B13 RRU |
| | - | - | A5 | - | - | - | - | - |
| BETA | 136.8' | 45° | A6 | MT6407-77A | - | 0/4 | ADD | - |
| | 132.8' | 45° | A6 | CBRS 64T64R MMU | PCS | 0/2 | RMN | - |
| | 136.8 | 143° | B1 | LNX-6512DS-A1M | 700 | 0/2 | RMN | - |
| | - | - | B2 | - | - | - | - | - |
| | 134.8' | 150° | B3 | MX06FRO660-02 | 850 | 0/2 | RMN | B2/B66A RRU |
| | 134.8' | 150° | B4 | MX06FRO660-02 | AWS | 0/2 | RMN | B5/B13 RRU |
| GAMMA | - | - | B5 | - | - | - | - | - |
| | 136.8' | 143° | B6 | MT6407-77A | - | 0/4 | ADD | - |
| | 132.8' | 150° | B6 | CBRS 64T64R MMU | PCS | 0/2 | RMN | - |
| | 136.8 | 260° | C1 | LNX-6512DS-A1M | 700 | 0/2 | RMN | - |
| | - | - | C2 | - | - | - | - | - |
| | 134.8' | 240° | C3 | MX06FRO660-02 | 850 | 0/2 | RMN | B2/B66A RRU |
| | 134.8' | 240° | C4 | MX06FRO660-02 | AWS | 0/2 | RMN | B5/B13 RRU |
| GAMMA | - | - | C5 | - | - | - | - | - |
| | 136.8' | 240° | C6 | MT6407-77A | - | 0/4 | ADD | - |
| - | - | C6 | CBRS 64T64R MMU | PCS | 0/2 | RMN | - | |

| EXISTING FIBER DISTRIBUTION/OVP BOX | | EXISTING CABLING SUMMARY | | |
|-------------------------------------|--------|--------------------------|------------|--------|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| (2) RRFDC-3315-PF-48 | RMN | (6) 1-5/8" | (2) 1-5/8" | RMN |

3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION / OVP BOX | | FINAL CABLING SUMMARY | | |
|------------------------------------|--------|-----------------------|------------|--------|
| MODEL NUMBER | STATUS | COAX | HYBRID | STATUS |
| (2) RRFDC-3315-PF-48 | RMN | (6) 1-5/8" | (2) 1-5/8" | RMN |

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| △ | | | |
| △ | | | |

ATC SITE NUMBER:
411183

ATC SITE NAME:
WATERFORD CT

VERIZON SITE NAME:
WATERFORD CT

SITE ADDRESS:
53 DAYTON RD,
WATERFORD, CT 06385

SEAL:

Eric Anderson
 License No. 12231
 Date: 2021.12.23 09:50:16

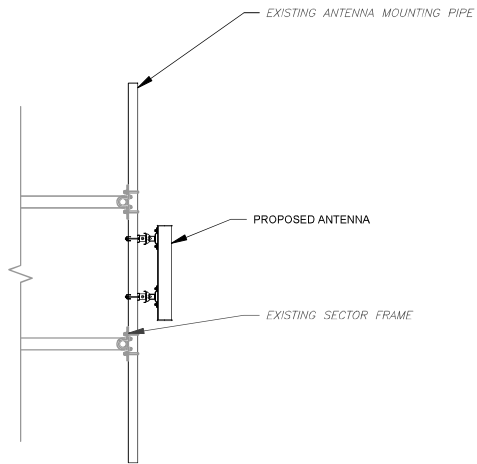
COA: JPC.0000131

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| DATE DRAWN: | 07/23/21 |
| ATC JOB NO: | 13698641_D1 |
| CUSTOMER ID: | WATERFORD CT |
| CUSTOMER #: | 468757 |

ANTENNA INFORMATION & SCHEDULE

| SHEET NUMBER: | REVISION: |
|---------------|-----------|
| C-401 | 0 |

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1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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| △ | | | |
| △ | | | |

ATC SITE NUMBER:
411183

ATC SITE NAME:
WATERFORD CT

VERIZON SITE NAME:
WATERFORD CT

SITE ADDRESS:
53 DAYTON RD,
WATERFORD, CT 06385

SEAL:



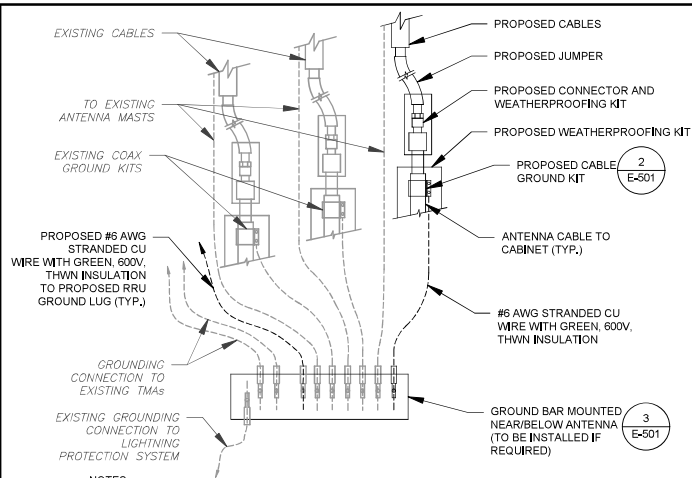
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| | |
|--------------|--------------|
| DATE DRAWN: | 07/23/21 |
| ATC JOB NO: | 13698641_D1 |
| CUSTOMER ID: | WATERFORD CT |
| CUSTOMER #: | 468757 |

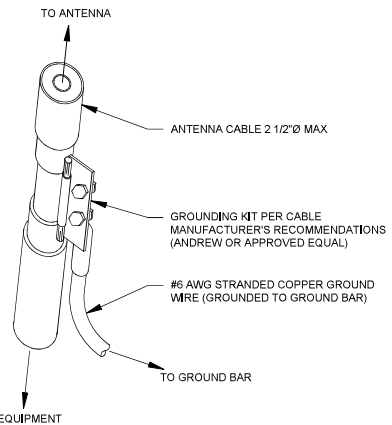
**CONSTRUCTION
DETAILS**

| | |
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| SHEET NUMBER: | REVISION: |
| C-501 | 0 |



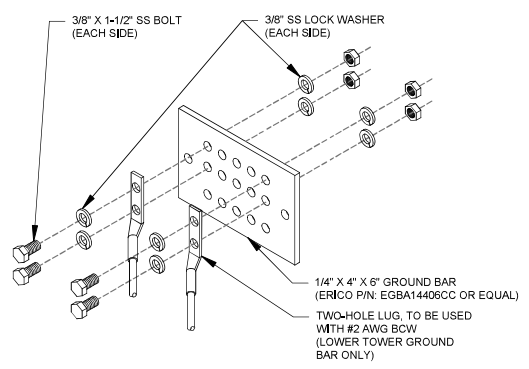
- NOTES:**
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS, THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
 2. SITE GROUNDING SHALL COMPLY WITH VERIZON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

1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



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

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.

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| △ | FOR CONSTRUCTION | RMD | 12/23/21 |
| △ | | | |
| △ | | | |

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SITE ADDRESS:
53 DAYTON RD,
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SEAL:

Digitally signed by Eric Anderson
Date: 2021.12.23 09:50:22-0700

COA: JPC,0000131

| | |
|--------------|--------------|
| DATE DRAWN: | 07/23/21 |
| ATC JOB NO: | 13698641_D1 |
| CUSTOMER ID: | WATERFORD CT |
| CUSTOMER #: | 468757 |

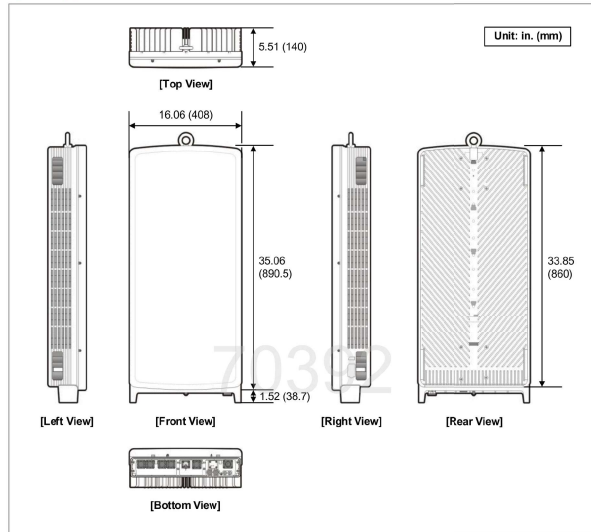
GROUNDING DETAILS

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| SHEET NUMBER: E-501 | REVISION: 0 |
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The following figures depict the physical views of the MT6407-77A.

Figure 1. Appearance



LNX-6512DS-VTM | LNX-6512DS-A1M



2-port sector antenna, 2x 698–896 MHz, 65° HPBW, RET compatible

- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- Ideal choice for site collocations and tough zoning restrictions
- Extended elevation tilt for maximum flexibility in urban core areas
- Remote beam tilt management is an optional feature using Andrew's Teletilt® system
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

OBSELETE

This product was discontinued on: December 31, 2017

Replaced By

LNX-6512DS-A1M 2-port sector antenna, 2x 698–896 MHz, 65° HPBW, RET compatible

Electrical Specifications

| Frequency Band, MHz | 698–806 | 806–896 |
|--------------------------------------|------------|------------|
| Gain, dBi | 14.1 | 15.0 |
| Beamwidth, Horizontal, degrees | 65 | 65 |
| Beamwidth, Vertical, degrees | 19.0 | 17.0 |
| Beam Tilt, degrees | 0–15 | 0–15 |
| USLS, typical, dB | 17 | 18 |
| Front-to-Back Ratio at 180°, dB | 28 | 28 |
| CPR at Boresight, dB | 12 | 12 |
| CPR at Sector, dB | 10 | 10 |
| Isolation, Cross Polarization, dB | 30 | 30 |
| VSWR Return Loss, dB | 1.4 15.6 | 1.4 15.6 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 |
| Input Power per Port, maximum, watts | 400 | 400 |
| Polarization | ±45° | ±45° |
| Impedance | 50 ohm | 50 ohm |

Electrical Specifications, BASTA*

| Frequency Band, MHz | 698–806 | 806–896 |
|--|---------|---------|
| Beamwidth, Horizontal Tolerance, degrees | ±3 | ±3 |

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

General Specifications

| | |
|--------------------------|---------------|
| Operating Frequency Band | 698 – 896 MHz |
| Antenna Type | Sector |
| Band | Single band |
| Performance Note | Outdoor usage |

SUPPLEMENTAL

SHEET NUMBER: REVISION:

R-601 -