



**NSS** **NORTHEAST**  
SITE SOLUTIONS  
*Turnkey Wireless Development*

Northeast Site Solutions  
Denise Sabo  
4 Angela's Way, Burlington CT 06013  
203-435-3640  
denise@northeastsitesolutions.com

January 12, 2021

Members of the Siting Council  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

RE: Exempt Modification Application  
170 Ingham Hill Road, Old Saybrook, CT 06475  
Latitude: 41.309722  
Longitude: -72.397500  
Site #: 841289\_Crown\_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 170 Ingham Hill Road, Old Saybrook, CT 06475. Verizon Wireless currently maintains twelve (12) antennas at the 133-foot level of the existing 150-foot tower. The property is owned by Carol and Robert Lorenz and the tower is owned by Crown Castle. Verizon now intends to replace nine (9) antennas. The new antennas would be installed at the 133-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable. Antenna mount modifications will be completed as per the attached Maser mount analysis dated September 7, 2021.

**Verizon Planned Modifications:**

**Remove:**

(1) 1-1/4" Coax

**Remove and Replace:**

(3) BXA-171085-8BF Antennas (REMOVE) – (3) Samsung MT6407-77A Antennas (REPLACE)  
(2) ANDREW Antennas (REMOVE) – (2) JAHH-45B-R3B Antennas (REPLACE)  
(4) ANDREW Antennas (REMOVE) – (4) JAHH-65B-R3B Antennas (REPLACE)  
(3) NOKIA B4 RRH (REMOVE) (REMOVE) - (3) Samsung RF4439D-25A RRH (REPLACE)  
(3) NOKIA B13 RRH (REMOVE) (REMOVE) - (3) Samsung RF4440D-13A RRH (REPLACE)  
(1) Hybrid Line 1-1/4" (REMOVE) – (1) Hybrid Line 1-5/8" (REPLACE)  
(1) Raycap OVP (REMOVE) – (1) Raycap RVZDC-6627-PF-48 (REPLACE)

**Install New:**

(3) Commscope Diplexers

**Existing to Remain:**

(3) ANTEL Antennas  
(11) 1-1/4" Coax

The facility was approved by the Siting Council, Docket No.51 on September 26, 1985. Please see attached.



Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16- SOj-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-SOj-73, a copy of this letter is being sent to Carl Fortuna, Jr., First Selectman and Christina Costa, Town Planner for the Town of Old Saybrook. A copy is also being sent to the tower owner and 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).

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 replacement 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.

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,

Denise Sabo  
Mobile: 203-435-3640  
Fax: 413-521-0558  
Office: 4 Angela's Way, Burlington CT 06013  
E-mail: [denise@northeastsitesolutions.com](mailto:denise@northeastsitesolutions.com)



**NSS** **NORTHEAST**  
SITE SOLUTIONS  
*Turnkey Wireless Development*

Attachments

Cc: Carl Fortuna, Jr., First Selectman  
Town Hall  
302 Main Street  
Old Saybrook, CT 06475

Christina Costa, Town Planner  
Town Hall  
302 Main Street  
Old Saybrook, CT 06475

Carol and Robert Lorenz, Property Owners  
PO Box 351  
Center Ossipee, NH 03814-0351

Crown Castle, Tower Owner

# Exhibit A

## **Original Facility Approval**

DOCKET NO. 51

AN APPLICATION SUBMITTED BY THE SOUTHERN : CONNECTICUT SITING  
NEW ENGLAND TELEPHONE COMPANY FOR A :  
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY : COUNCIL  
AND PUBLIC NEED FOR THE CONSTRUCTION, :  
MAINTENANCE, AND OPERATION OF FACILITIES :  
TO PROVIDE CELLULAR SERVICE IN HARTFORD :  
AND MIDDLESEX COUNTIES. : September 26, 1985

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut be issued to Southern New England Telephone Company (SNET) for the construction, operation, and maintenance of a telecommunications tower and associated equipment building to provide cellular service at sites in Old Saybrook and Enfield, Connecticut.

The facilities shall be constructed, operated, and maintained as specified in this matter, and subject to the following conditions:

1. The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed
  - a) 150' at the Old Saybrook site; and
  - b) 150' at the Enfield site;
2. A fence not lower than eight feet shall surround each tower and its associated equipment building;
3. The applicant or its successor shall notify the Council if and when directional antennas or any other equipment is added to any of these facilities;
4. The applicant or its successor shall permit, in accordance with representations made by it during the proceeding, public or private entities to share space on the facilities, for due

consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing;

5. The facilities shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations;
6. The applicant shall submit a development and management plan (D&M) for the Old Saybrook site pursuant to sections 16-50j-75 through 16-50j-77 of the regulations of state agencies, except that irrelevant items in section 16-50j-76 need only be identified as such. The D&M plan shall include erosion control measures, reseeding plans, and tree removal plans. The applicant shall comply with the reporting requirements of section 16-50j-77 for both sites;
7. Construction activities shall take place during daylight working hours;
8. This decision and order shall be void and the towers and associated equipment approved herein shall be dismantled and removed, or reapplication for any new use shall be made to the Connecticut Siting Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction;
9. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the opinion and decision and order be served on each person listed below. A notice of the issuance shall be published in the

Hartford Courant, the Middletown Press, and the Old Saybrook Pictorial.

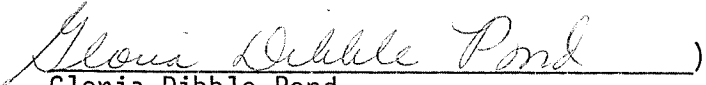
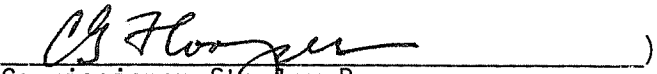


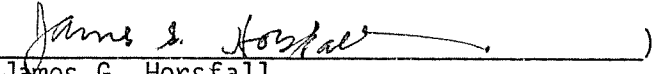
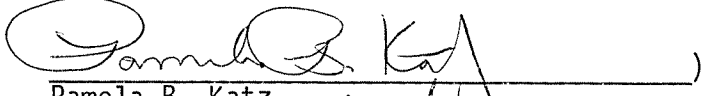
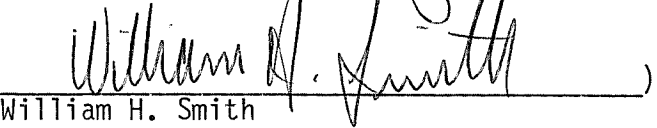
The parties to this proceeding are

Southern New England Telephone Company (Applicant)  
227 Church Street  
New Haven, Connecticut 06506  
Attn: Peter J. Tyrrell  
Senior Attorney  
Room 314

C E R T I F I C A T I O N

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

Dated at New Britain, Connecticut, this 26th day of September, 1985.

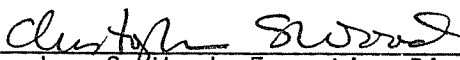
| <u>Council Members</u>  | <u>Vote Cast</u> |
|---|------------------|
| <br>Gloria Dibble Pond<br>Chairperson                        | Yes              |
| _____<br>Commissioner John Downey<br>Designee: Commissioner Peter G. Boucher  | Absent           |
| <br>Commissioner Stanley Pac<br>Designee: Christopher Cooper | Yes              |
| <br>Owen L. Clark   | Yes              |
| <br>Mortimer A. Gelston                                    | Yes              |
| <br>James G. Horsfall                                      | Yes              |
| <br>Pamela B. Katz   | Yes              |
| <br>William H. Smith                                       | Yes              |
| _____<br>Colin C. Tait  | Absent           |



STATE OF CONNECTICUT            )  
  :  
COUNTY OF HARTFORD            )        ss.        New Britain, September 26, 1985

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

  
\_\_\_\_\_  
Christopher S. Wood, Executive Director  
Connecticut Siting Council

# Exhibit B

## Property Card

# 170 INGHAM HILL RD

**Location** 170 INGHAM HILL RD

**MBLU** 051/ 033/ //

**Acct#** 00559800

**Owner** LORENZ CAROL J & ROBERT A

**Assessment** \$176,700

**Appraisal** \$303,200

**PID** 3322

**Building Count** 1

## Current Value

| Appraisal      |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2018           | \$163,400    | \$139,800 | \$303,200 |

| Assessment     |              |          |           |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land     | Total     |
| 2018           | \$114,400    | \$62,300 | \$176,700 |

## Owner of Record

**Owner** LORENZ CAROL J & ROBERT A  
**Co-Owner**  
**Address** P O BOX 351  
CENTER OSSIPEE N H, NH 03814-0351

**Sale Price** \$0  
**Certificate**  
**Book & Page** 0211/0890  
**Sale Date** 03/15/1984

## Ownership History

| Ownership History             |
|-------------------------------|
| No Data for Ownership History |

## Building Information

### Building 1 : Section 1

**Year Built:** 1959  
**Living Area:** 1,383

| Building Attributes |             |
|---------------------|-------------|
| Field               | Description |
| Style               | Ranch       |
| Model               | Residential |

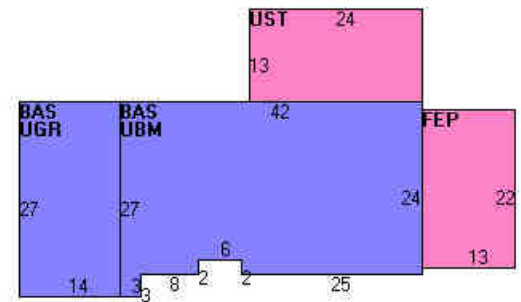
|                    |                |
|--------------------|----------------|
| Grade:             | Average        |
| Stories:           | 1 Story        |
| Occupancy          | 1              |
| Exterior Wall 1    | Vinyl Siding   |
| Exterior Wall 2    |                |
| Roof Structure:    | Gable/Hip      |
| Roof Cover         | Asph/F GlS/Cmp |
| Interior Wall 1    | Plastered      |
| Interior Wall 2    |                |
| Interior Flr 1     | Vinyl/Asphalt  |
| Interior Flr 2     |                |
| Heat Fuel          | Oil            |
| Heat Type:         | Hot Water      |
| AC Type:           | None           |
| Total Bedrooms:    | 3 Bedrooms     |
| Total Bthrms:      | 1              |
| Total Half Baths:  | 1              |
| Total Xtra Fixtrs: |                |
| Total Rooms:       | 6 Rooms        |
| Bath Style:        | Average        |
| Kitchen Style:     | Modern         |
| Num Kitchens       | 01             |
| Cndtn              |                |
| Usrflid 103        |                |
| Usrflid 104        |                |
| Usrflid 105        |                |
| Usrflid 106        |                |
| Usrflid 107        |                |
| Num Park           |                |
| Fireplaces         |                |
| Usrflid 108        |                |
| Usrflid 101        |                |
| Usrflid 102        |                |
| Usrflid 100        |                |
| Usrflid 300        |                |
| Usrflid 301        |                |

## Building Photo



(<http://images.vgsi.com/photos/OldSaybrookCTPhotos/\00\01\97\10.jpg>)

## Building Layout



([http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/3322\\_33](http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/3322_33);

| Building Sub-Areas (sq ft) |                              |            | Legend      |  |
|----------------------------|------------------------------|------------|-------------|--|
| Code                       | Description                  | Gross Area | Living Area |  |
| BAS                        | First Floor                  | 1,383      | 1,383       |  |
| FEP                        | Porch, Enclosed, Framed      | 286        | 0           |  |
| UBM                        | Basement, Unfinished         | 1,005      | 0           |  |
| UGR                        | Garage, Unfinished           | 378        | 0           |  |
| UST                        | Utility, Storage, Unfinished | 312        | 0           |  |
|                            |                              | 3,364      | 1,383       |  |

## Extra Features

| Extra Features |             |      |       | Legend |
|----------------|-------------|------|-------|--------|
| Code           | Description | Size | Value | Bldg # |
|                |             |      |       |        |

|      |                |            |         |   |
|------|----------------|------------|---------|---|
| FPL1 | FIREPLACE 1 ST | 1.00 UNITS | \$2,300 | 1 |
|------|----------------|------------|---------|---|

## Land

### Land Use

**Use Code** 1010  
**Description** Single Family  
**Zone** AA-1

### Land Line Valuation

**Size (Acres)** 11.8  
**Depth** 0  
**Assessed Value** \$62,300  
**Appraised Value** \$139,800

## Outbuildings

| Outbuildings             | <u>Legend</u> |
|--------------------------|---------------|
| No Data for Outbuildings |               |

## Valuation History

| Appraisal      |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2018           | \$163,400    | \$139,800 | \$303,200 |
| 2016           | \$147,200    | \$139,800 | \$287,000 |
| 2015           | \$145,700    | \$139,800 | \$285,500 |

| Assessment     |              |          |           |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land     | Total     |
| 2018           | \$114,400    | \$62,300 | \$176,700 |
| 2016           | \$103,000    | \$62,300 | \$165,300 |
| 2015           | \$102,000    | \$62,300 | \$164,300 |

# INGHAM HILL RD

**Location** INGHAM HILL RD

**MBLU** 052/ 04T/ / /

**Acct#** 00568700

**Owner** LORENZ CAROL J & ROBERT A

**Assessment** \$545,300

**Appraisal** \$779,100

**PID** 3259

**Building Count** 1

## Current Value

| Appraisal      |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2018           | \$481,800    | \$297,300 | \$779,100 |

| Assessment     |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2018           | \$337,200    | \$208,100 | \$545,300 |

## Owner of Record

**Owner** LORENZ CAROL J & ROBERT A  
**Co-Owner**  
**Address** P O BOX 351  
CENTER OSSIPEE, NH 03814

**Sale Price** \$0  
**Certificate**  
**Book & Page** 0211/0890  
**Sale Date** 01/20/1976

## Ownership History

| Ownership History             |
|-------------------------------|
| No Data for Ownership History |

## Building Information

### Building 1 : Section 1

**Year Built:** 1990  
**Living Area:** 880

| Building Attributes |             |
|---------------------|-------------|
| Field               | Description |
| STYLE               | Industrial  |
| MODEL               | Ind/Lg Com  |

|                  |                |
|------------------|----------------|
| Grade            | Average        |
| Stories:         | 1              |
| Occupancy        | 1.00           |
| Exterior Wall 1  | Concr/Cinder   |
| Exterior Wall 2  |                |
| Roof Structure   | Flat           |
| Roof Cover       | Tar & Gravel   |
| Interior Wall 1  | Minim/Masonry  |
| Interior Wall 2  |                |
| Interior Floor 1 | Concr-Finished |
| Interior Floor 2 |                |
| Heating Fuel     | Electric       |
| Heating Type     | Forced Air-Duc |
| AC Type          | Central        |
| Struct Class     |                |
| Bldg Use         | TEL REL TW     |
| Total Rooms      |                |
| Total Bedrms     | 00             |
| Total Baths      | 0              |
| Usrflid 218      |                |
| Usrflid 219      |                |
| 1st Floor Use:   | 4310           |
| Heat/AC          | NONE           |
| Frame Type       | MASONRY        |
| Baths/Plumbing   | NONE           |
| Ceiling/Wall     | SUSP-CEIL ONLY |
| Rooms/Prtns      | LIGHT          |
| Wall Height      | 10.00          |
| % Comn Wall      | 0.00           |

### Building Photo



(<http://images.vgsi.com/photos/OldSaybrookCTPhotos/\00\01\27\84.jpg>)

### Building Layout



([http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/3259\\_32](http://images.vgsi.com/photos/OldSaybrookCTPhotos//Sketches/3259_32))

| Building Sub-Areas (sq ft) |             |            | <u>Legend</u> |
|----------------------------|-------------|------------|---------------|
| Code                       | Description | Gross Area | Living Area   |
| BAS                        | First Floor | 880        | 880           |
|                            |             | 880        | 880           |

### Extra Features

| Extra Features             | <u>Legend</u> |
|----------------------------|---------------|
| No Data for Extra Features |               |

### Land

#### Land Use

**Use Code** 4310  
**Description** TEL REL TW  
**Zone** AA-1

#### Land Line Valuation

**Size (Acres)** 0.23  
**Depth** 0  
**Assessed Value** \$208,100

**Outbuildings**

| Outbuildings |               |          |                 |              |           | Legend |
|--------------|---------------|----------|-----------------|--------------|-----------|--------|
| Code         | Description   | Sub Code | Sub Description | Size         | Value     | Bldg # |
| FN9          | W/O TOP RL-8' |          |                 | 272.00 L.F.  | \$2,900   | 1      |
| CELL         | CELL TOWER    |          |                 | 125.00 UNITS | \$56,300  | 1      |
| MSC1         | ARRAYS        |          |                 | 3.00 UNIT    | \$375,000 | 1      |

**Valuation History**

| Appraisal      |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2020           | \$481,800    | \$297,300 | \$779,100 |
| 2018           | \$481,800    | \$297,300 | \$779,100 |
| 2016           | \$159,500    | \$472,500 | \$632,000 |

| Assessment     |              |           |           |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land      | Total     |
| 2020           | \$337,200    | \$208,100 | \$545,300 |
| 2018           | \$337,200    | \$208,100 | \$545,300 |
| 2016           | \$111,700    | \$330,800 | \$442,500 |





# Exhibit C

## **Construction Drawings**



**VERIZON SITE NUMBER:** 468078  
**VERIZON SITE NAME:** OLD SAYBROOK CT  
**SITE TYPE:** MONOPOLE  
**TOWER HEIGHT:** 150'-0"

**BUSINESS UNIT #:** 841289  
**SITE ADDRESS:** 170 INGHAM HILL ROAD  
 OLD SAYBROOK, CT 06475  
**COUNTY:** MIDDLESEX  
**JURISDICTION:** MIDDLESEX COUNTY

**VERIZON FUZE PROJECT #: 16272025**

**verizon**  
 180 WASHINGTON VALLEY ROAD  
 BEDMINSTER, NJ 07921

**CROWN CASTLE**  
 1200 MACARTHUR BLVD, SUITE 200  
 MAHWAH, NJ 07430

**INFINIGY**  
 FROM ZERO TO INFINIGY  
 the solutions are endless  
 BELLEVUE, WA 98004

**VERIZON SITE NUMBER:**  
 468078  
**BU #:** 841289  
**OLD SAYBROOK**  
 170 INGHAM HILL ROAD  
 OLD SAYBROOK, CT 06475  
 EXISTING 150'-0" MONOPOLE

| REV | DATE       | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|-------------|---------|
| 0   | 10/18/2021 | RCD  | FINAL CDs   | --      |

08/05/2021 **ISSUED FOR:**

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**SHEET NUMBER:** T-1  
**REVISION:** 0

**SITE INFORMATION**

**CROWN CASTLE USA INC.** OLD SAYBROOK  
**SITE NAME:**  
**SITE ADDRESS:** 170 INGHAM HILL ROAD  
 OLD SAYBROOK, CT 06475  
**COUNTY:** MIDDLESEX  
**MAP/PARCEL #:** VERIFY  
**AREA OF CONSTRUCTION:** EXISTING  
**LATITUDE:** 41° 18' 35.55" N (41.309875°)  
**LONGITUDE:** 72° 23' 51.13" W (-72.397536°)  
**LAT/LONG TYPE:** NAD83  
**GROUND ELEVATION:** 134.51'  
**CURRENT ZONING:** N/A  
**JURISDICTION:** MIDDLESEX COUNTY  
**OCCUPANCY CLASSIFICATION:** U  
**TYPE OF CONSTRUCTION:** IIB  
**A.D.A. COMPLIANCE:** FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION  
**PROPERTY OWNER:** TBD  
**TOWER OWNER:** CCAIT LLC  
 2000 CORPORATE DRIVE  
 CANONSBURG, PA 15317  
**CARRIER/APPLICANT:** VERIZON WIRELESS  
 180 WASHINGTON VALLEY ROAD  
 BEDMINSTER, NJ 07921  
**ELECTRIC PROVIDER:** TBD  
**TELCO PROVIDER:** TBD

**DRAWING INDEX**

| SHEET # | SHEET DESCRIPTION                |
|---------|----------------------------------|
| T-1     | TITLE SHEET                      |
| T-2     | GENERAL NOTES                    |
| C-1     | SITE PLAN                        |
| C-2     | TOWER ELEVATION & ANTENNA PLANS  |
| C-3     | EQUIPMENT SCHEDULES              |
| C-4     | EQUIPMENT DETAILS                |
| C-5     | FIBER NAMING & EQUIPMENT DETAILS |
| C-6     | COLOR CODE MATRIX                |
| C-7     | PLUMBING DIAGRAM                 |
| G-1     | GROUNDING DETAILS                |
| G-2     | GROUNDING DETAILS                |

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**APPROVALS**

| SIGNATURE | DATE  |
|-----------|-------|
| _____     | _____ |
| _____     | _____ |
| _____     | _____ |
| _____     | _____ |

**CONTRACTOR PMI REQUIREMENTS**

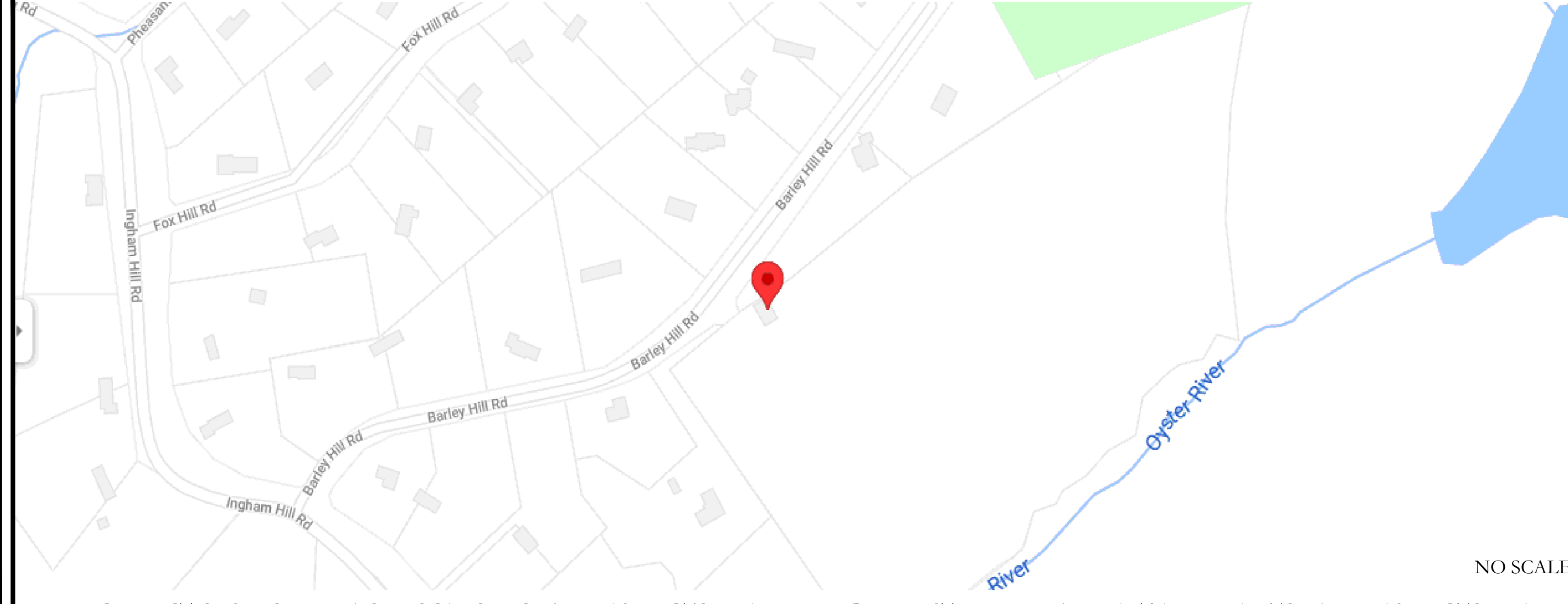
PMI ACCESSED AT <https://pmi.vxwsmart.com>  
 SMART TOOL VENDOR  
 PROJECT NUMBER 6039-Z0001-C  
 VzW LOCATION CODE (PSLC) 468078  
 \*\*\* PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

**MOUNT MODIFICATION REQUIRED** Y

**VzW APPROVED SMART KIT VENDORS**

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

**LOCATION MAP**



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY RD, BEDMINSTER, NJ 07921) DEPART AND HEAD TOWARD WASHINGTON VALLEY RD / COUNTY HWY-620, TURN LEFT ONTO WASHINGTON VALLEY RD / COUNTY HWY-620, TURN RIGHT ONTO SCHLEY MOUNTAIN RD, PASS DAYS INN BY WYNDHAM NANUET / SPRING VALLEY ON THE RIGHT IN 12.2 KM, KEEP STRAIGHT TO GET ONTO I-287 E, AT EXIT 67, HEAD RIGHT ON THE RAMP FOR CT-154 TOWARD CENTERBROOK / ESSEX / INLAND RESORT AREAS / IVORYTON / MIDDLETOWN, TAKE A SHARP LEFT ONTO CT-154 / MIDDLESEX TPKE TOWARD CENTERBROOK / ESSEX / INLAND RESORT AREAS / IVORYTON / MIDDLETOWN, AT EXIT 67, HEAD ON THE RAMP RIGHT AND FOLLOW SIGNS FOR ELM ST, BEAR RIGHT ONTO ELM ST, TURN RIGHT ONTO BARLEY HILL RD, ARRIVE AT 170 INGHAM HILL ROAD OLD SAYBROOK, CT 06475.

**APPLICABLE CODES/REFERENCE DOCUMENTS**

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

| CODE TYPE  | CODE     |
|------------|----------|
| BUILDING   | 2018 IBC |
| MECHANICAL | 2018 IMC |
| ELECTRICAL | 2015 NEC |

**REFERENCE DOCUMENTS:**  
 STRUCTURAL ANALYSIS: BY OTHERS  
 DATED:  
 MOUNT ANALYSIS: MASER CONSULTING CONNECTICUT  
 DATED: 09/07/2021  
 RFDS REVISION: TBD  
 DATED: 10/11/2021  
 ORDER ID: 586098  
 REVISION: 0

**PROJECT DESCRIPTION**

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

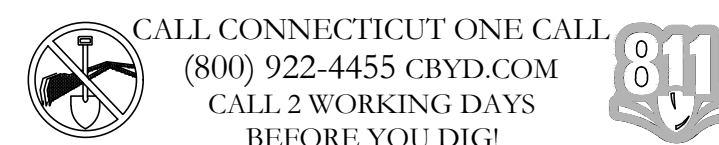
- TOWER SCOPE OF WORK:**
- REMOVE (9) ANTENNAS
  - REMOVE (2) RRUS
  - REMOVE (1) OVP BOX
  - INSTALL (3) INTEGRATED ANTENNAS
  - INSTALL (6) ANTENNAS
  - INSTALL (6) RRHS
  - INSTALL (3) DIPLEXERS
  - INSTALL (1) OVP
  - INSTALL (3) DUAL ANTENNA MOUNT
  - MODIFY ANTENNA MOUNT

**GROUND SCOPE OF WORK:**  
 • N/A

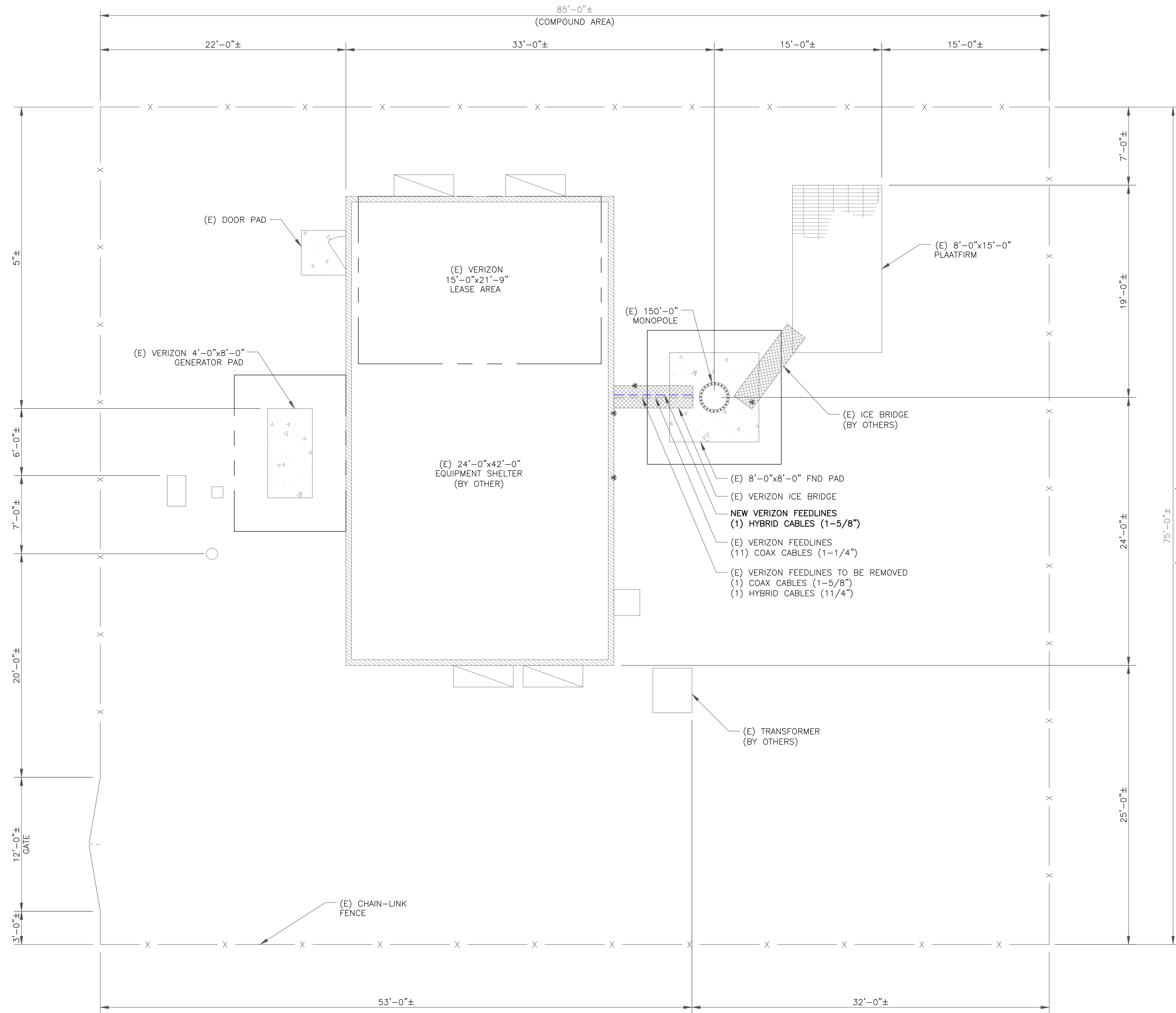
**NOTE:**  
 PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

**PROJECT TEAM**

**A&E FIRM:** CROWN CASTLE USA INC.  
 2000 CORPORATE DRIVE  
 CANONSBURG, PA 15317  
 CROWN.AE.APPROVAL@CROWNCastle.COM  
**CROWN CASTLE USA INC. DISTRICT CONTACTS:**  
 1200 MACARTHUR BLVD, SUITE 200  
 MAHWAH, NJ 07430  
 PAUL MALEK - PROJECT MANAGER  
 --  
 DUWAN IRBY - CONSTRUCTION MANAGER  
 --







**verizon**

180 WASHINGTON VALLEY ROAD  
BEDMINSTER, NJ 07921

**CROWN CASTLE**

1200 MACARTHUR BLVD, SUITE 200  
MAHWAH, NJ 07430

**INFINIGY**

FROM ZERO TO INFINIGY  
the solutions are endless

BELLEVUE, WA 98004

VERIZON SITE NUMBER:  
468078

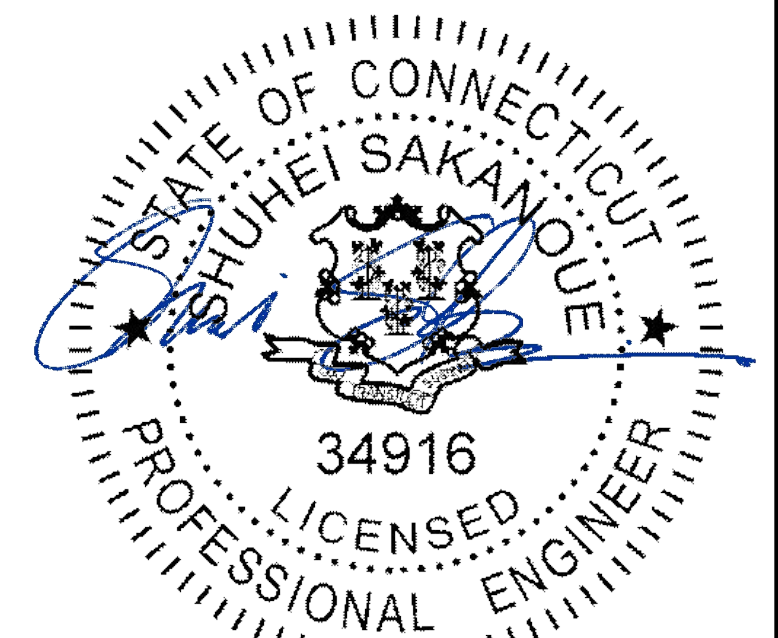
BU #: 841289  
OLD SAYBROOK

170 INGHAM HILL ROAD  
OLD SAYBROOK, CT 06475

EXISTING 150'-0" MONOPOLE

08/05/2021 ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|-------------|---------|
| 0   | 10/18/2021 | RCD  | FINAL CDs   | --      |
|     |            |      |             |         |
|     |            |      |             |         |



10/19/2021

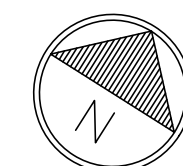
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TO ALTER THIS DOCUMENT.

SHEET NUMBER: REVISION:

C-1

0

1 SITE PLAN  
SCALE: 3/16"=1'-0" (FULL SIZE)  
3/32"=1'-0" (11x17)



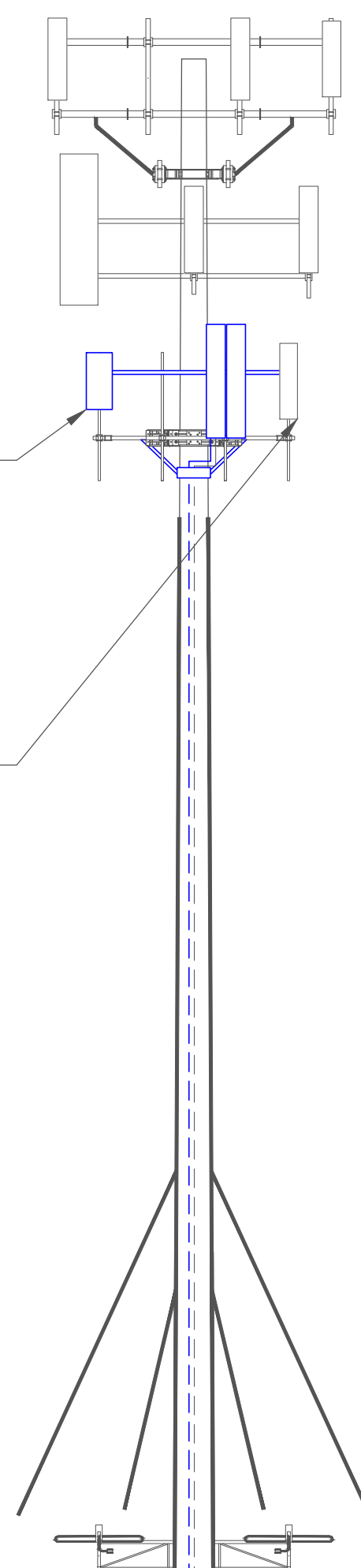
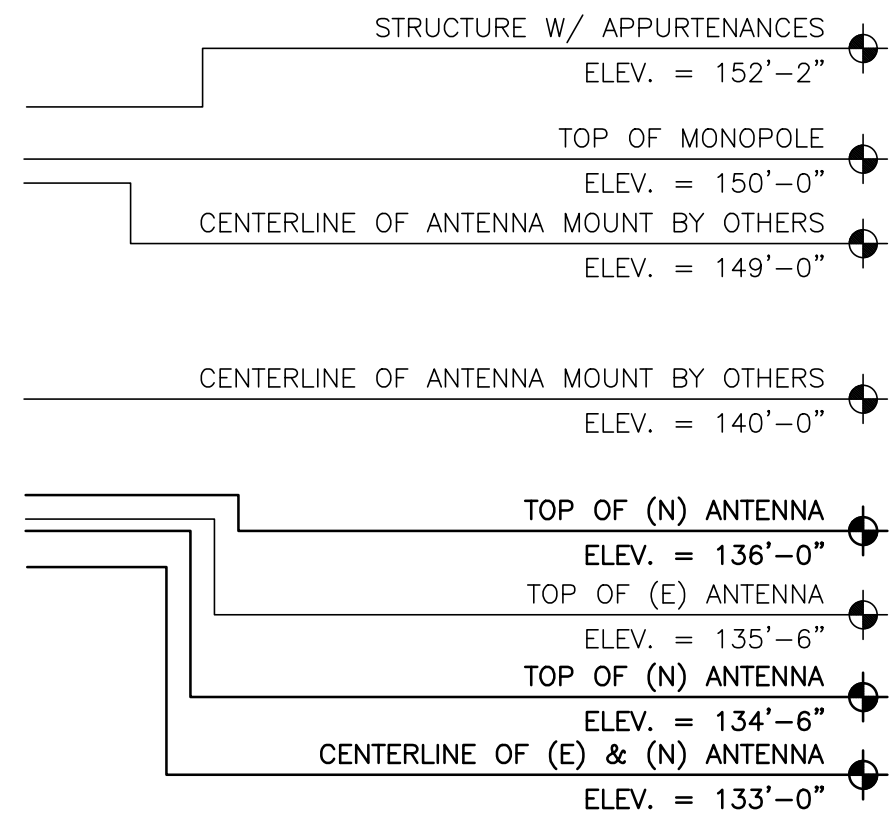
**NOTES:**

- THESE DRAWINGS ARE NOT INTENDED TO BE A VERIFICATION THAT THE STRUCTURE OR MOUNTS ARE ADEQUATE TO SUPPORT THE PROPOSED LOADING. VERIFICATION THAT THE EXISTING STRUCTURE AND MOUNTS CAN SUPPORT THE PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REFER TO THE STRUCTURAL ANALYSIS AND MOUNT ASSESSMENT AND VERIFY LOADING WITH THE MOST RECENT RFDS PRIOR TO CONSTRUCTION.

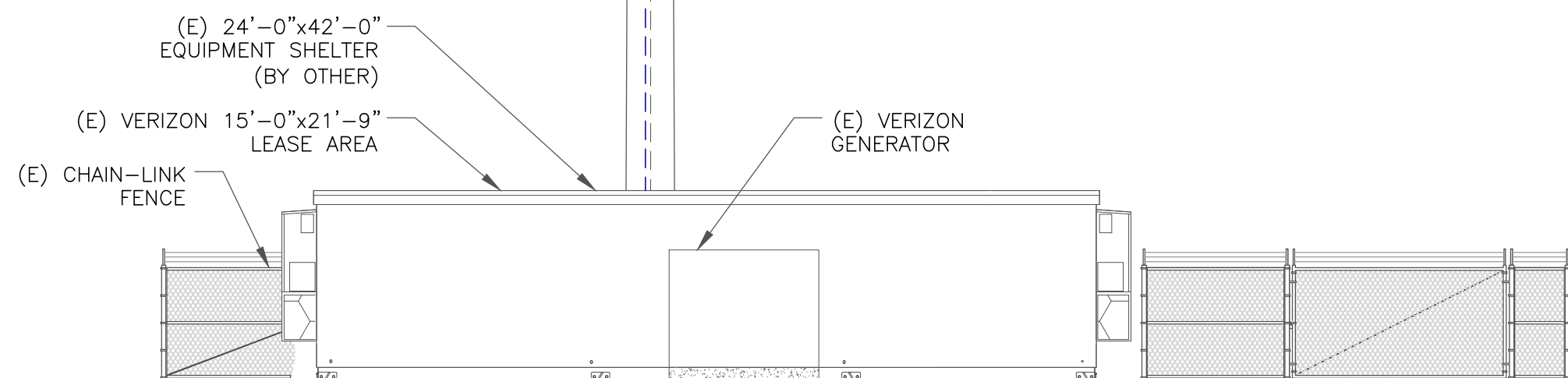
**VERIZON EQUIPMENT**

ANTENNA CL: 133'-0"  
MOUNT CL: 130'-0"

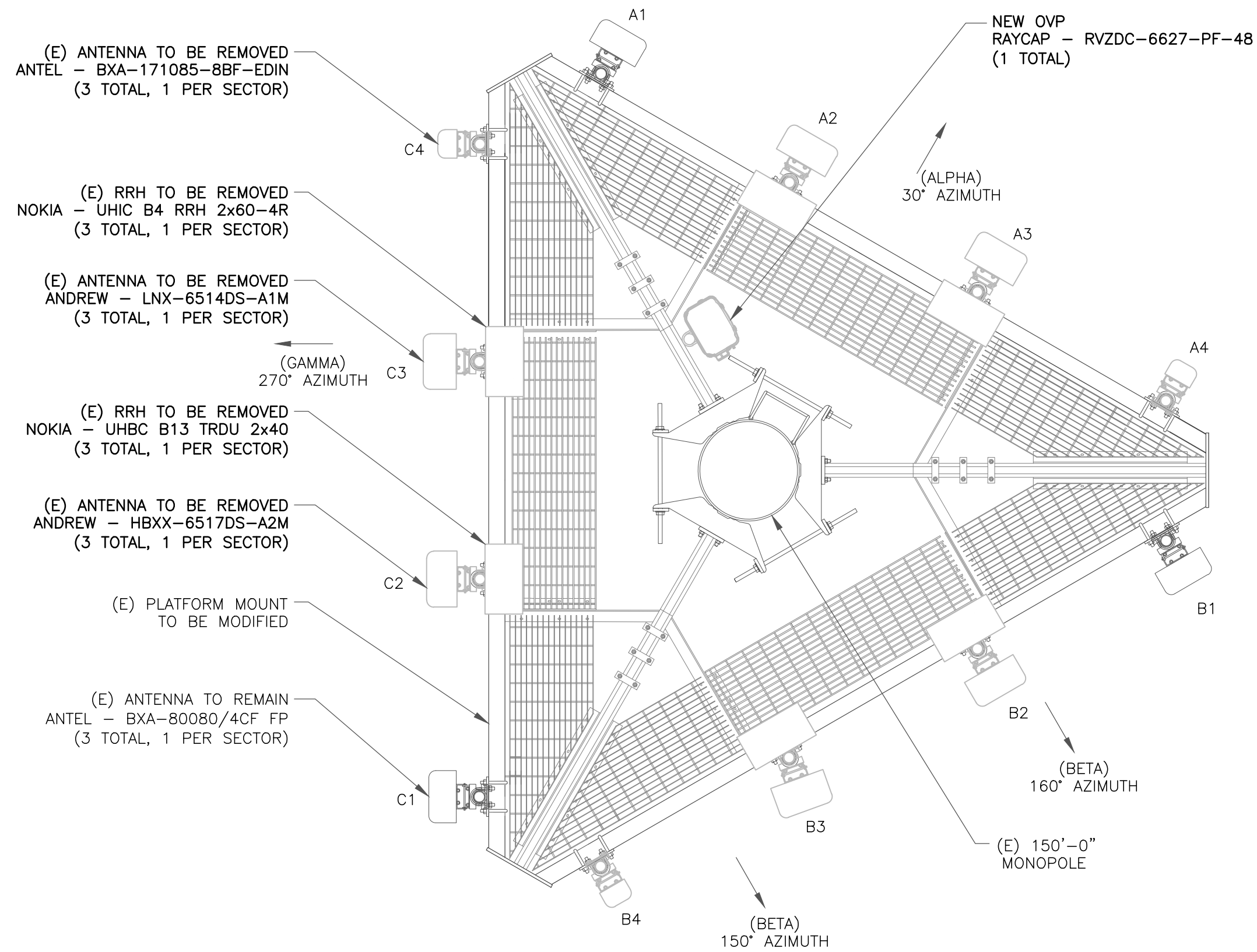
- NEW VERIZON EQUIPMENT**
- (3) SAMSUNG - MT6407-77A ANTENNAS
  - (2) COMMSCOPE - JAHH-45B-R3B ANTENNAS
  - (4) ANDREW - JAHH-65B-R3B ANTENNAS
  - (3) COMMSCOPE - CBC78T-DS-43-2X DIPLEXER
  - (3) SAMSUNG - RF4439d-25A RRHS
  - (3) SAMSUNG - RF4440d-13A RRHS
  - (1) RAYCAP - RVZDC-6627-PF-48 OVP
  - (2) COMMSCOPE - BSAMNT-SBS-2-2 DUAL MOUNT
  - (1) COMMSCOPE - BSAMNT-SBS-2-3 DUAL MOUNT INSTALLED ON MODIFIED MOUNTS
- (E) VERIZON EQUIPMENT TO REMAIN
- (3) ANTEL - BXA-80080/4CF FP ANTENNAS INSTALLED ON EXISTING MOUNTS



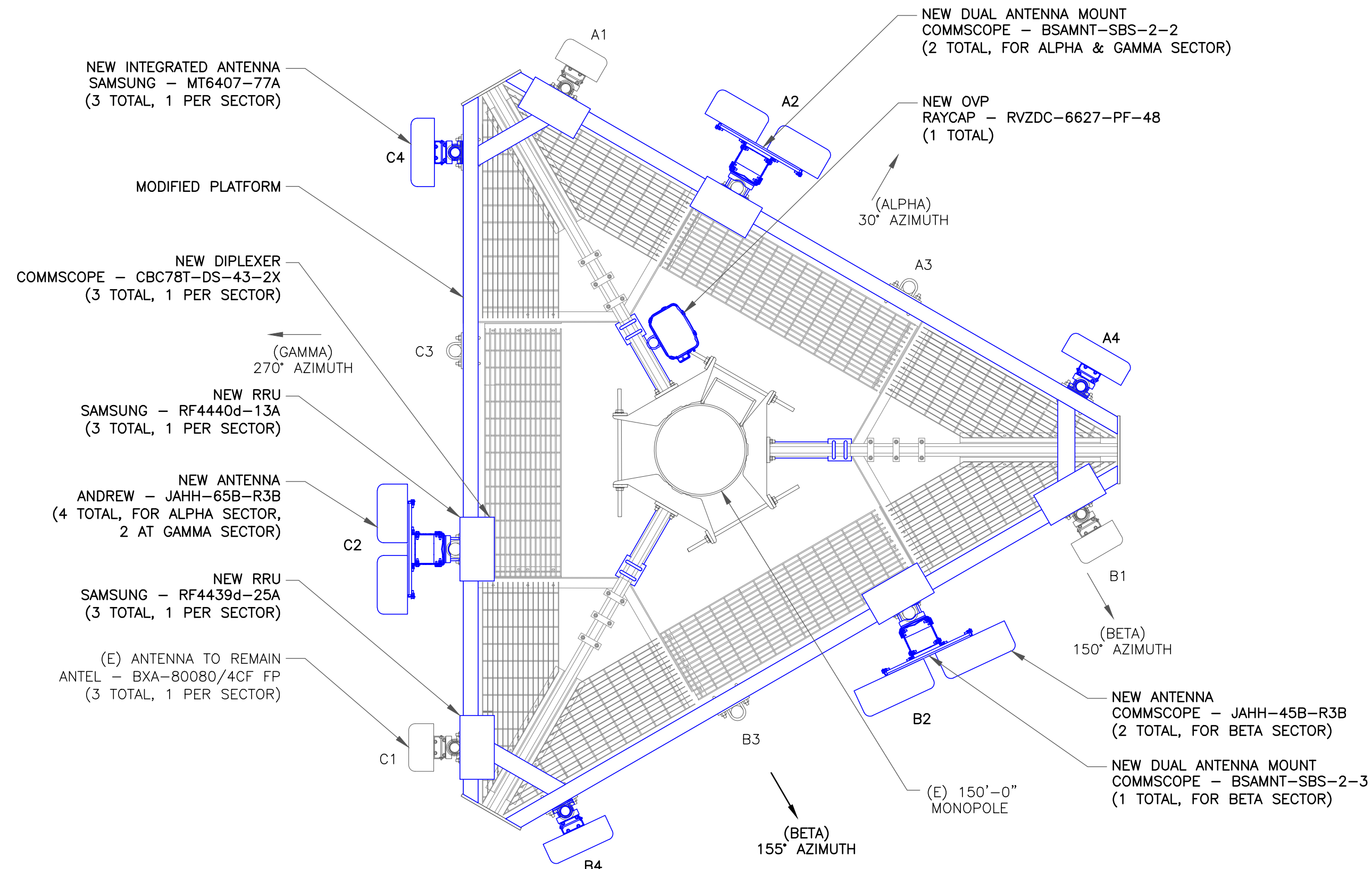
- (E) 150'-0" MONOPOLE
- NEW VERIZON FEEDLINES
- (1) HYBRID CABLES (1-5/8")
- (E) VERIZON FEEDLINES
- (11) COAX CABLES (1-1/4")
- (E) VERIZON FEEDLINES TO BE REMOVED
- (1) COAX CABLES (1-5/8")
- (1) HYBRID CABLES (1 1/4")



**1** TOWER ELEVATION  
SCALE: NOT TO SCALE



**2** EXISTING ANTENNA PLAN  
SCALE: NOT TO SCALE



**3** NEW ANTENNA PLAN  
SCALE: NOT TO SCALE

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**CROWN CASTLE**

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MAHWAH, NJ 07430

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BELLEVUE, WA 98004

VERIZON SITE NUMBER:  
**468078**

BU #: 841289  
**OLD SAYBROOK**

170 INGHAM HILL ROAD  
OLD SAYBROOK, CT 06475

EXISTING 150'-0" MONOPOLE

08/05/2021 ISSUED FOR:

| REV | DATE       | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|-------------|---------|
| 0   | 10/18/2021 | RCD  | FINAL CDS   | --      |
|     |            |      |             |         |
|     |            |      |             |         |

STATE OF CONNECTICUT  
SHUHEI SAKANQUE  
34916  
LICENSED PROFESSIONAL ENGINEER

10/19/2021

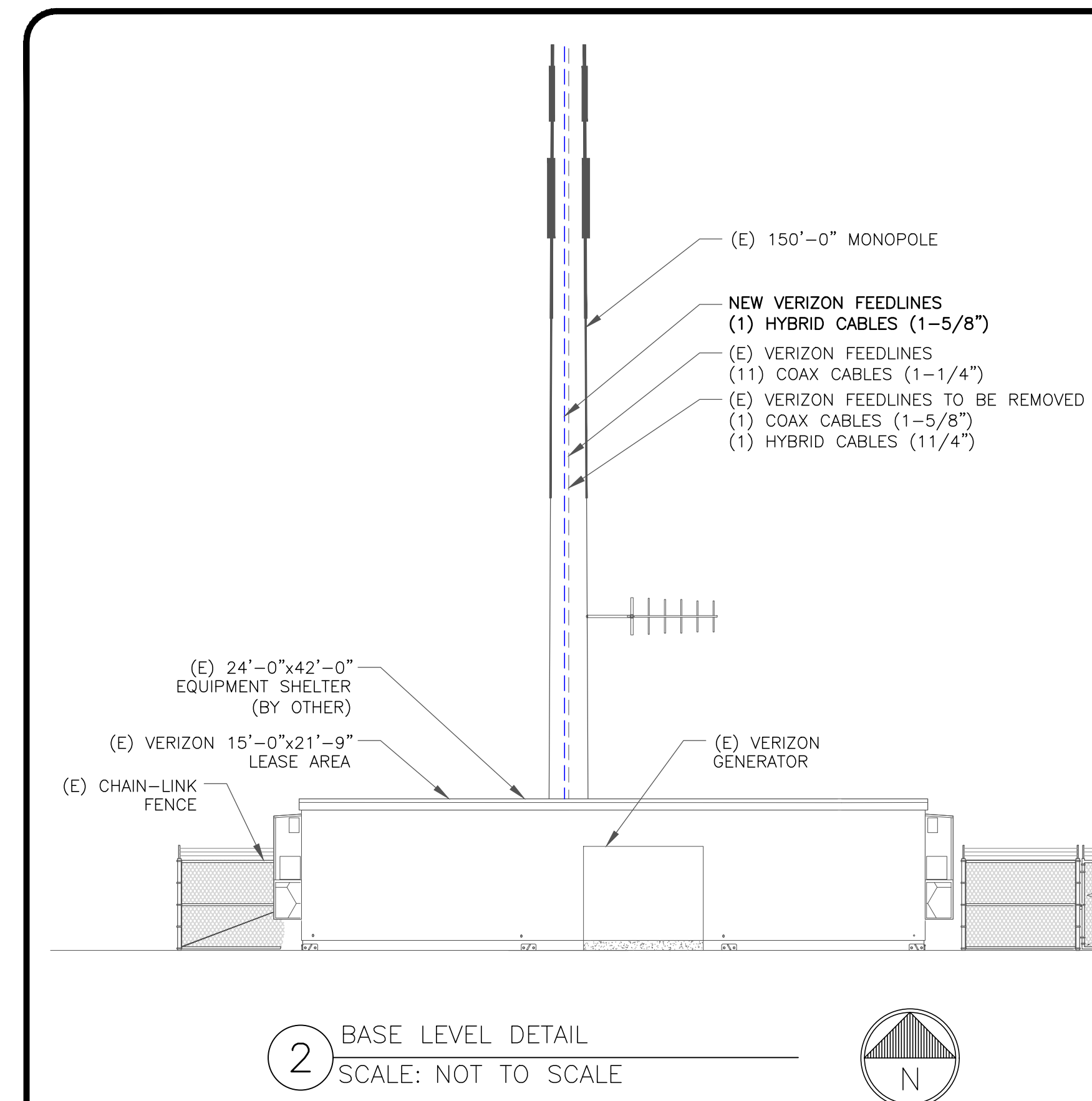
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SHEET NUMBER: **C-2** REVISION: **0**

| ANTENNA/RRH SCHEDULE |          |                        |                              |                    |         |                      |                      |                              |                                    |
|----------------------|----------|------------------------|------------------------------|--------------------|---------|----------------------|----------------------|------------------------------|------------------------------------|
| SECTOR               | STATUS   | ANTENNA MANUFACTURER   | ANTENNA MODEL                | ANTENNA CENTERLINE | AZIMUTH | MECHANICAL DOWNTILTS | ELECTRICAL DOWNTILTS | TOWER EQUIPMENT MANUFACTURER | TOWER EQUIPMENT QTY/MODEL          |
| A1                   | EXISTING | ANTEL                  | BXA-80080/4CF FP             | 133'-0"            | 30°     | 0°                   | 2'                   | SAMSUNG                      | (1) RF4439d-25A                    |
| A2                   | NEW      | ANDREW<br>ANDREW       | JAHH-65B-R3B<br>JAHH-65B-R3B | 133'-0"            | 30°     | 0°                   | 2'/2'/2'/2'          | SAMSUNG<br>COMMSCOPE         | (1) RF4440d-13A<br>CBC78T-DS-43-2X |
| A3                   | -        | -                      | -                            | -                  | -       | -                    | -                    | -                            | -                                  |
| A4                   | NEW      | SAMSUNG                | MT6407-77A                   | 133'-0"            | 30°     | 0°                   | 6'                   | RAYCAP                       | (1) RVZDC-6627-PF-48               |
|                      |          |                        |                              |                    |         |                      |                      |                              |                                    |
| B1                   | EXISTING | ANTEL                  | BXA-80080/4CF FP             | 133'-0"            | 150°    | 0°                   | 2'                   | SAMSUNG                      | (1) RF4439d-25A                    |
| B2                   | NEW      | COMMSCOPE<br>COMMSCOPE | JAHH-45B-R3B<br>JAHH-45B-R3B | 133'-0"            | 155°    | 0°                   | 2'/2'/2'/2'          | SAMSUNG<br>COMMSCOPE         | (1) RF4440d-13A<br>CBC78T-DS-43-2X |
| B3                   | -        | -                      | -                            | -                  | -       | -                    | -                    | -                            | -                                  |
| B4                   | NEW      | SAMSUNG                | MT6407-77A                   | 133'-0"            | 155°    | 0°                   | 6'                   | -                            | -                                  |
|                      |          |                        |                              |                    |         |                      |                      |                              |                                    |
| C1                   | EXISTING | ANTEL                  | BXA-80080/4CF FP             | 133'-0"            | 270°    | 0°                   | 2'                   | SAMSUNG                      | (1) RF4439d-25A                    |
| C2                   | NEW      | ANDREW<br>ANDREW       | JAHH-65B-R3B<br>JAHH-65B-R3B | 133'-0"            | 270°    | 0°                   | 2'/2'/2'/2'          | SAMSUNG<br>COMMSCOPE         | (1) RF4440d-13A<br>CBC78T-DS-43-2X |
| C3                   | -        | -                      | -                            | -                  | -       | -                    | -                    | -                            | -                                  |
| C4                   | NEW      | SAMSUNG                | MT6407-77A                   | 133'-0"            | 270°    | 0°                   | 6'                   | -                            | -                                  |

1 VERIZON TOWER EQUIPMENT SCHEDULE  
SCALE: NOT TO SCALE

| CABLE SCHEDULE   |            |        |          |     |
|------------------|------------|--------|----------|-----|
| STATUS           | CABLE TYPE | SIZE   | LENGTH   | QTY |
| NEW              | HYBRID     | 1-5/8" | 183'-0"± | 1   |
| EXISTING         | COAX       | 1-1/4" | 183'-0"± | 11  |
| TOTAL CABLE QTY: |            |        |          | 12  |



2 BASE LEVEL DETAIL  
SCALE: NOT TO SCALE

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BELLEVUE, WA 98004

VERIZON SITE NUMBER:  
**468078**

BU #: 841289  
**OLD SAYBROOK**

170 INGHAM HILL ROAD  
OLD SAYBROOK, CT 06475

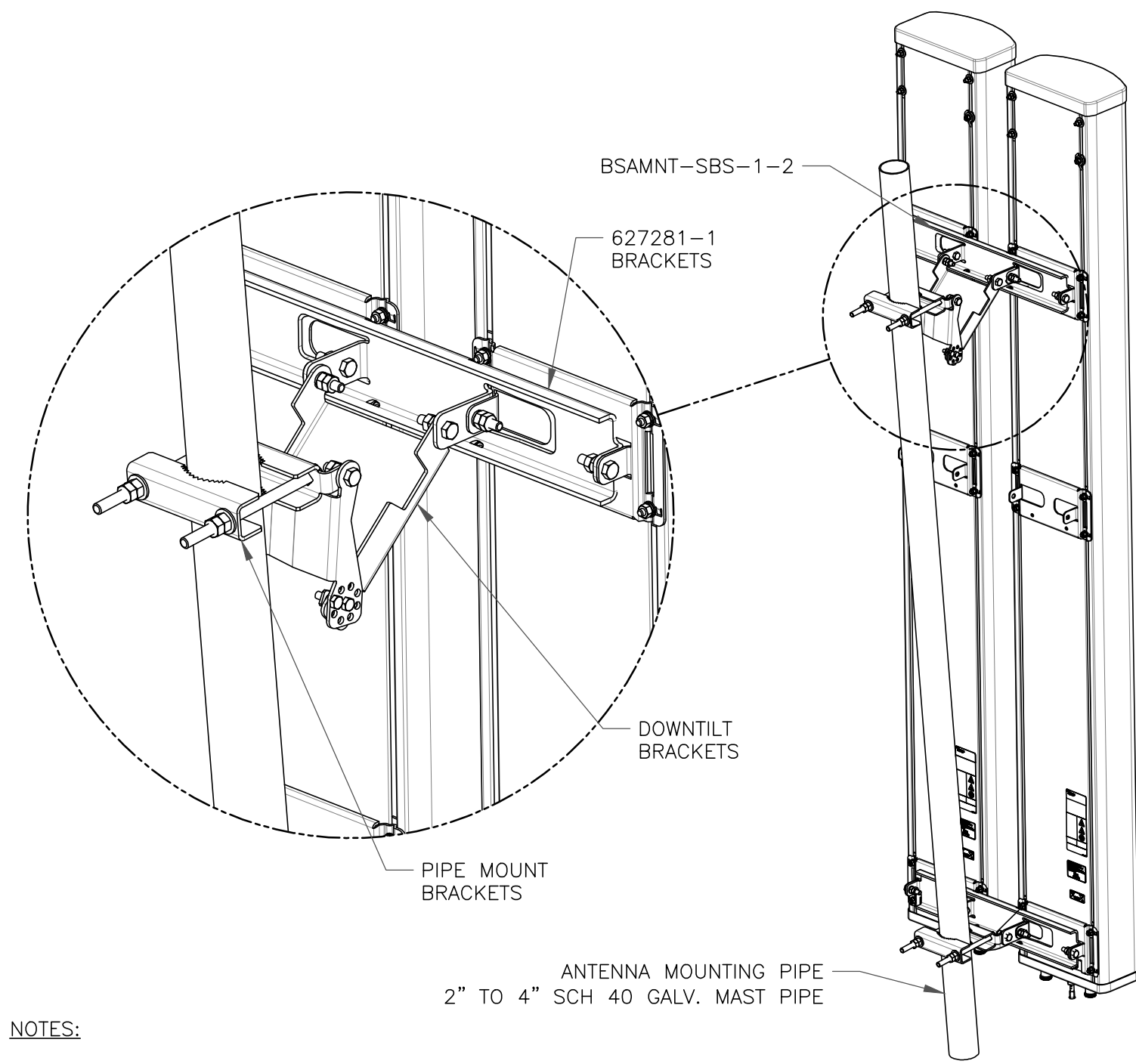
EXISTING 150'-0" MONOPOLE

| 08/05/2021 ISSUED FOR: |            |      |             |         |
|------------------------|------------|------|-------------|---------|
| REV                    | DATE       | DRWN | DESCRIPTION | DES./QA |
| 0                      | 10/18/2021 | RCD  | FINAL CDs   | -       |
|                        |            |      |             |         |
|                        |            |      |             |         |

STATE OF CONNECTICUT  
SHUHEI SAKANQUE  
34916  
LICENSED PROFESSIONAL ENGINEER  
10/19/2021

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SHEET NUMBER: **C-3** REVISION: **0**

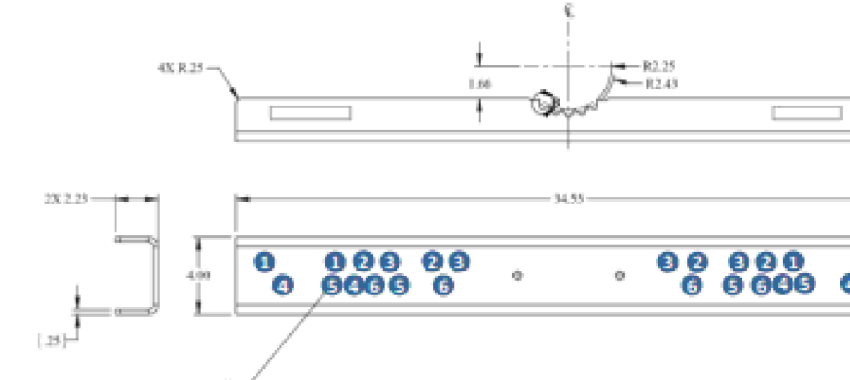
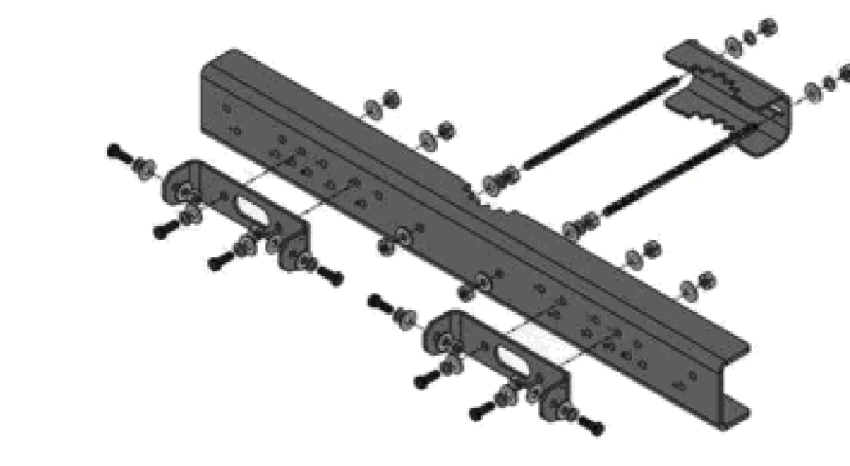


NOTES:

- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

1 COMMSCOPE - BSAMNT-SBS-1-2  
SCALE: NOT TO SCALE

Dual-mount bracket assembly guide overview

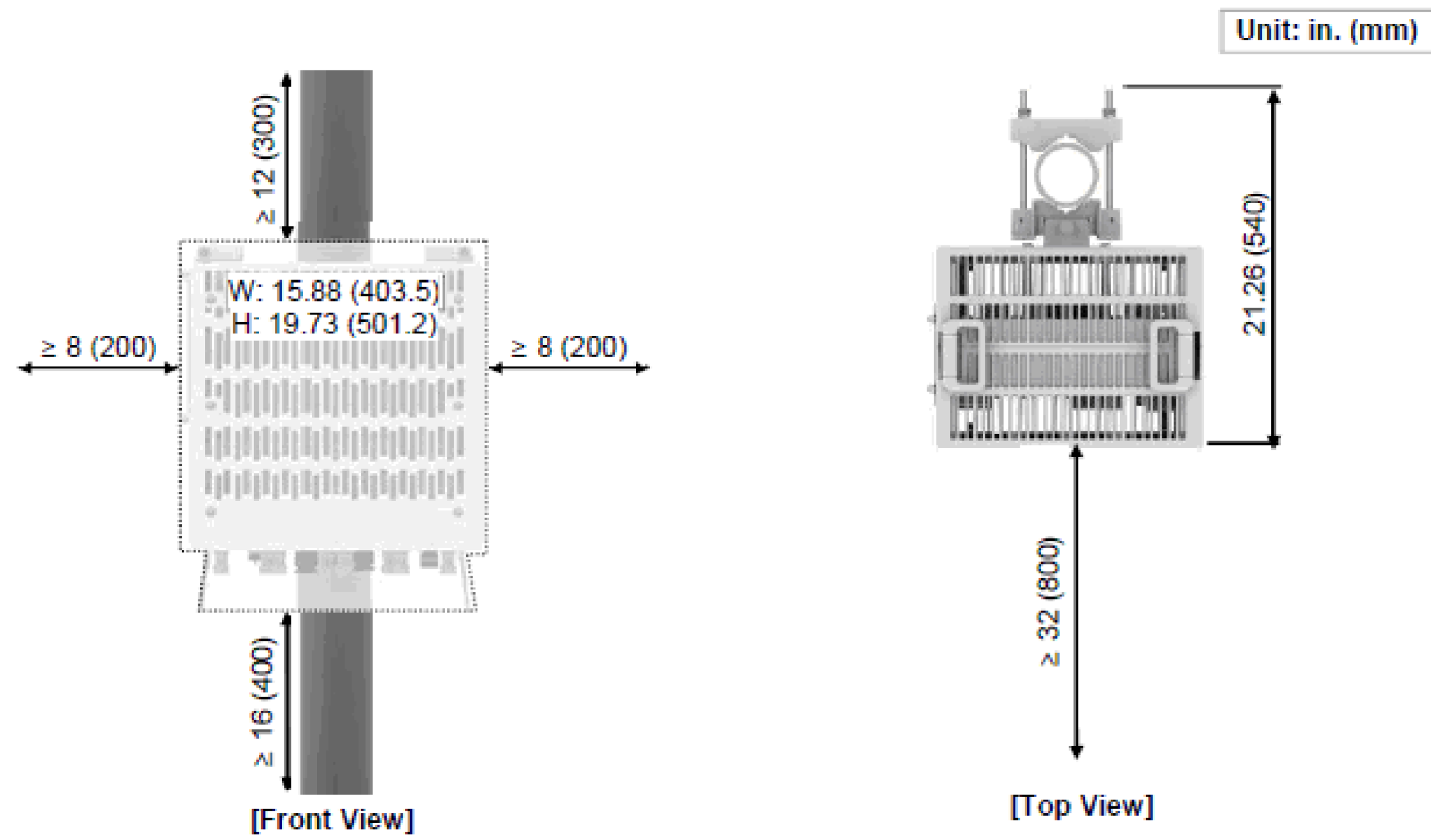


| Model types beginning with: | Antenna width          | Corresponding hole position | Resulting spacing between antennas |
|-----------------------------|------------------------|-----------------------------|------------------------------------|
| MX*, MC*                    | 15.4" (wide spacing)   | 1                           | 12"                                |
|                             | 15.4" (narrow spacing) | 2                           | 2"                                 |
|                             | 12"                    | 3                           | 2"                                 |
| XC*, CC*                    | 20"                    | 5                           | 3/4"                               |
|                             | 12.5"                  | 3                           | 2"                                 |
|                             | 24.0"                  | 4                           | 2"                                 |
|                             | 18.8"                  | 5                           | 2"                                 |
|                             | 14.6"                  | 6                           | 2"                                 |

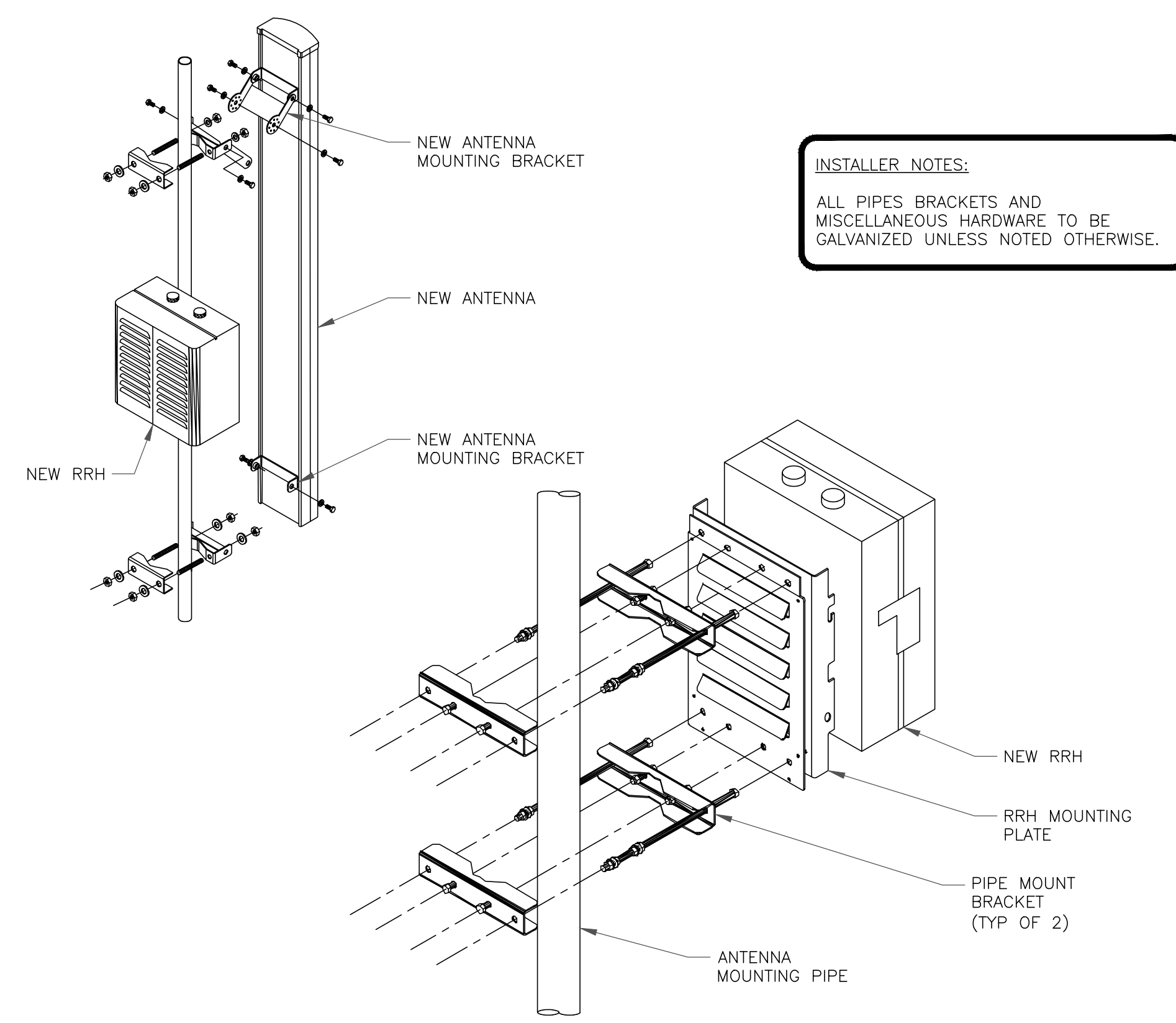
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91900314  
Page 2

2 JMA - 91900314 DUAL MOUNT DETAILS  
SCALE: NOT TO SCALE



3 SAMSUNG - FPKA BRACKET MOUNTING DETAIL  
SCALE: NOT TO SCALE



INSTALLER NOTES:  
ALL PIPES BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.

4 ANTENNA & RRH MOUNTING DETAIL  
SCALE: NOT TO SCALE

180 WASHINGTON VALLEY ROAD  
BEDMINSTER, NJ 07921

1200 MACARTHUR BLVD, SUITE 200  
MAHWAH, NJ 07430

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VERIZON SITE NUMBER:  
468078

BU #: 841289  
OLD SAYBROOK

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EXISTING 150'-0" MONOPOLE

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|     |            |      |             |         |
|     |            |      |             |         |

10/19/2021

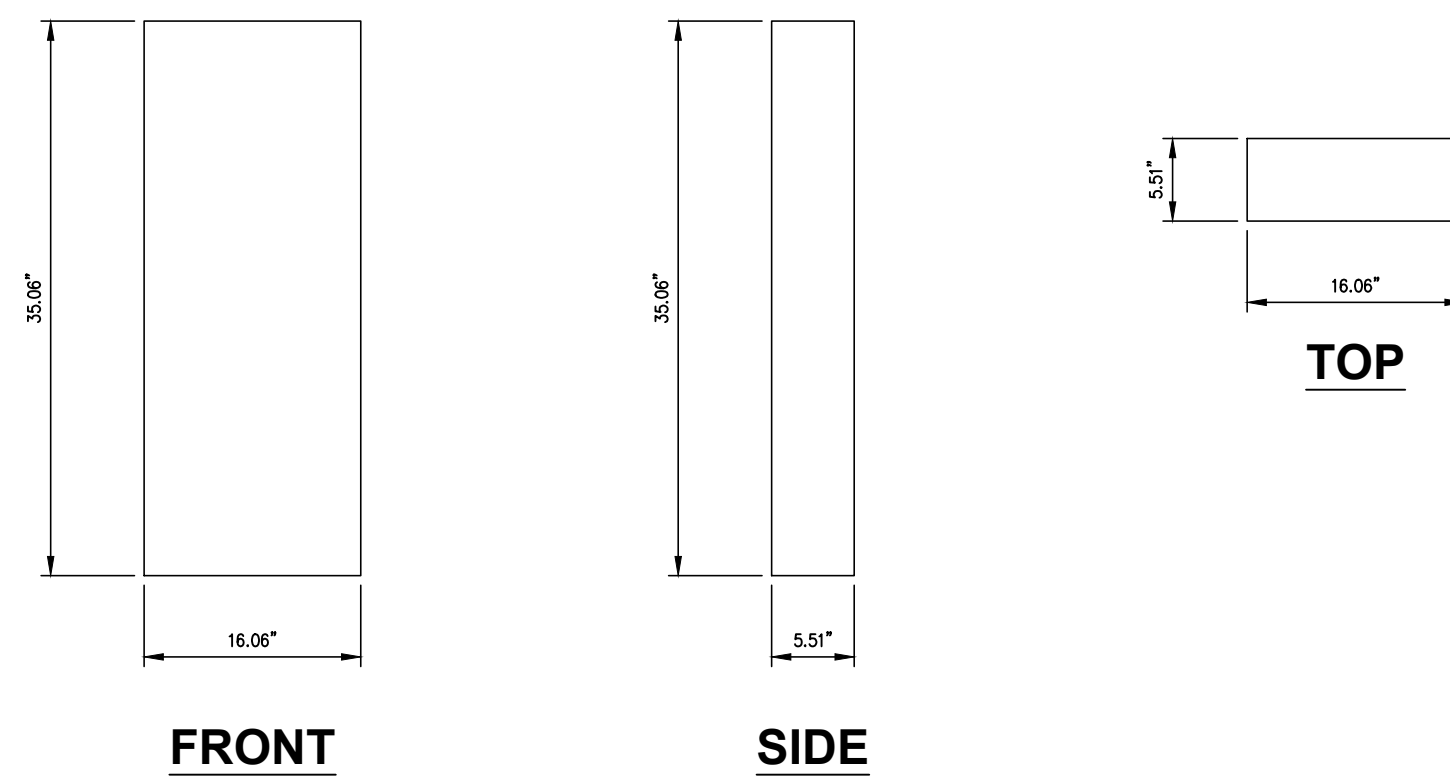
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REVISION: 0



**SAMSUNG PANEL ANTENNA (MT6407-77A)**

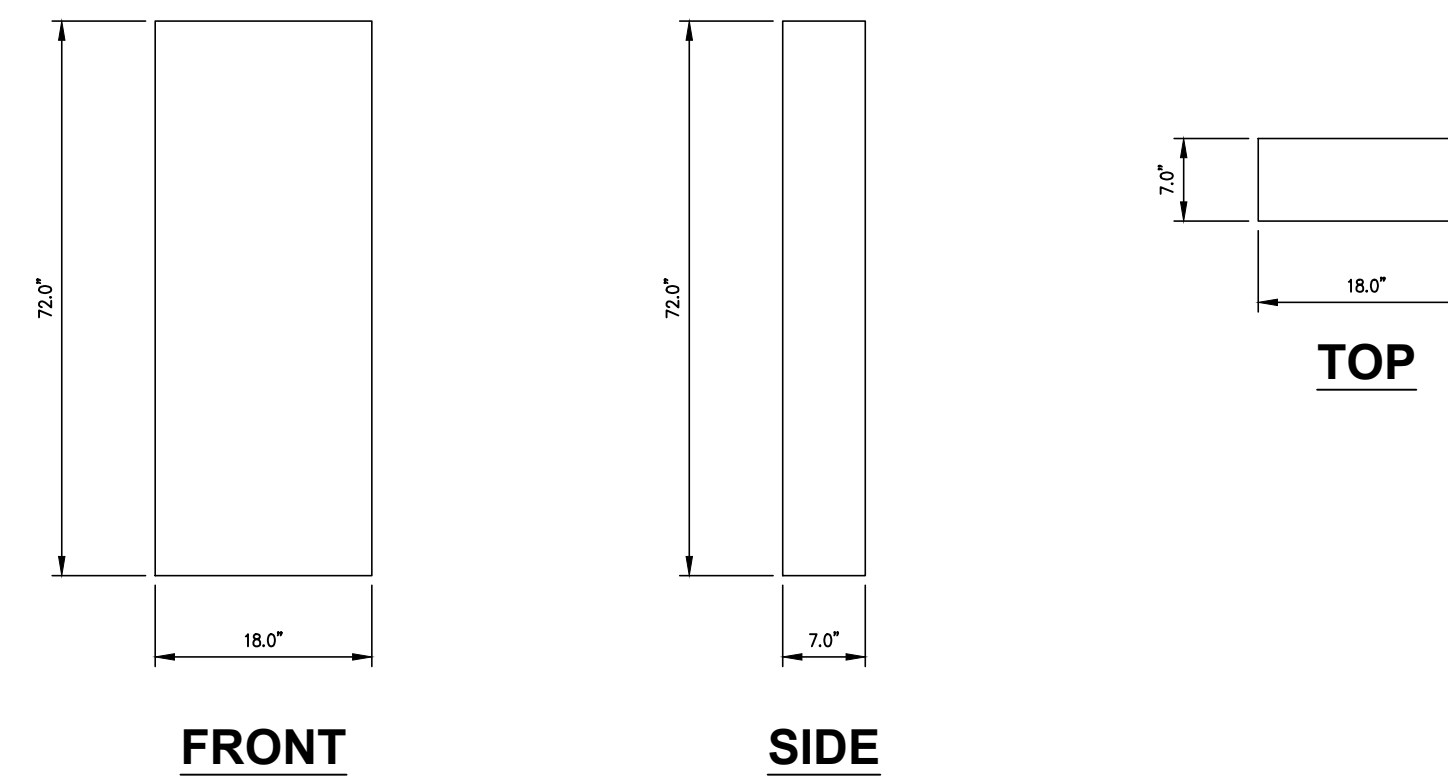
DIMENSIONS, HxWxD: 35.06"x16.06"x5.51"  
 WEIGHT, W/O BRACKETS: 81.57 lbs



1 SAMSUNG MT6407-77A ANTENNA DETAIL  
 SCALE: NOT TO SCALE

**COMMSCOPE PANEL ANTENNA (JAHH-45B-R3B)**

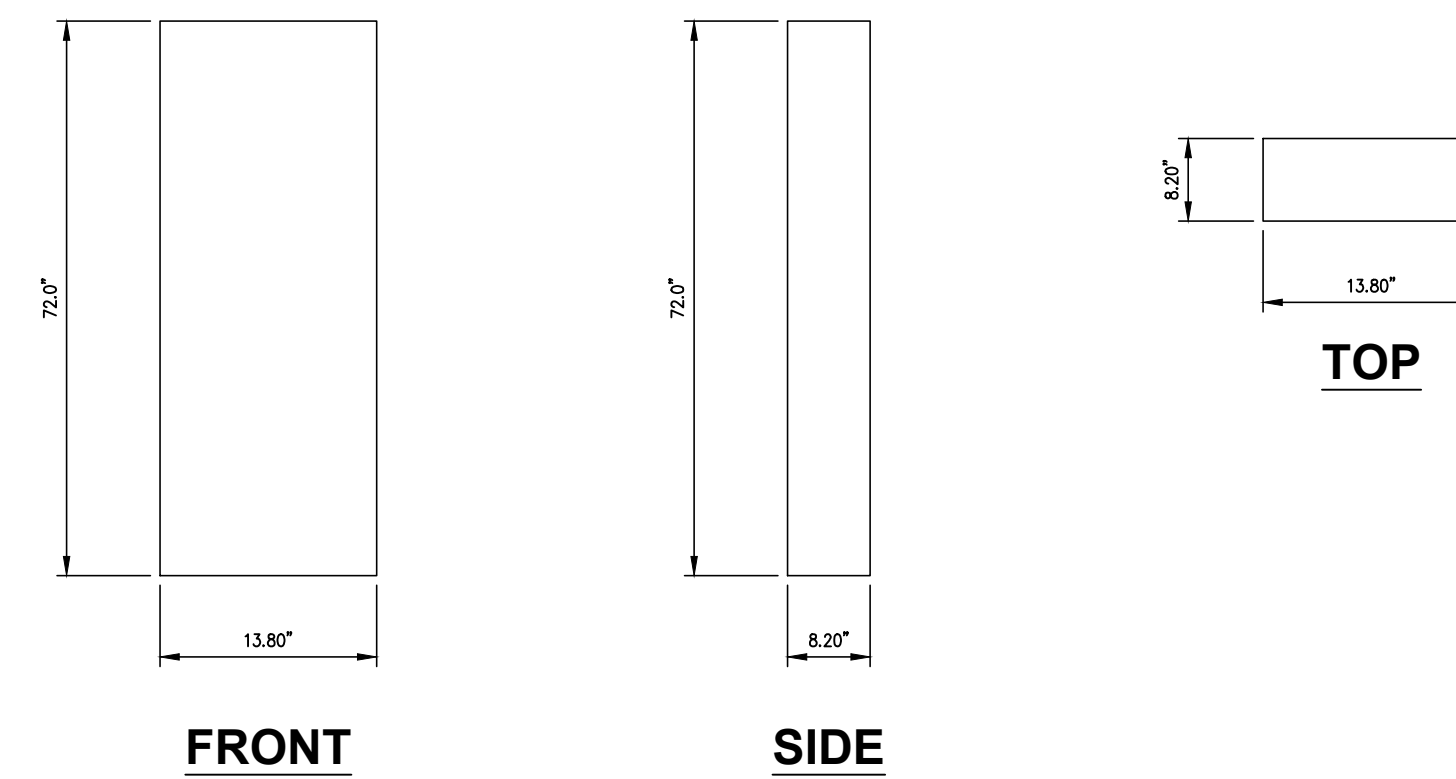
DIMENSIONS, HxWxD: 72.0"x18.0"x7.0"  
 WEIGHT, W/O BRACKETS: 97.50 lbs



3 COMMSCOPE JAHH-45B-R3B ANTENNA DETAIL  
 SCALE: NOT TO SCALE

**ANDREW PANEL ANTENNA (JAHH-65B-R3B)**

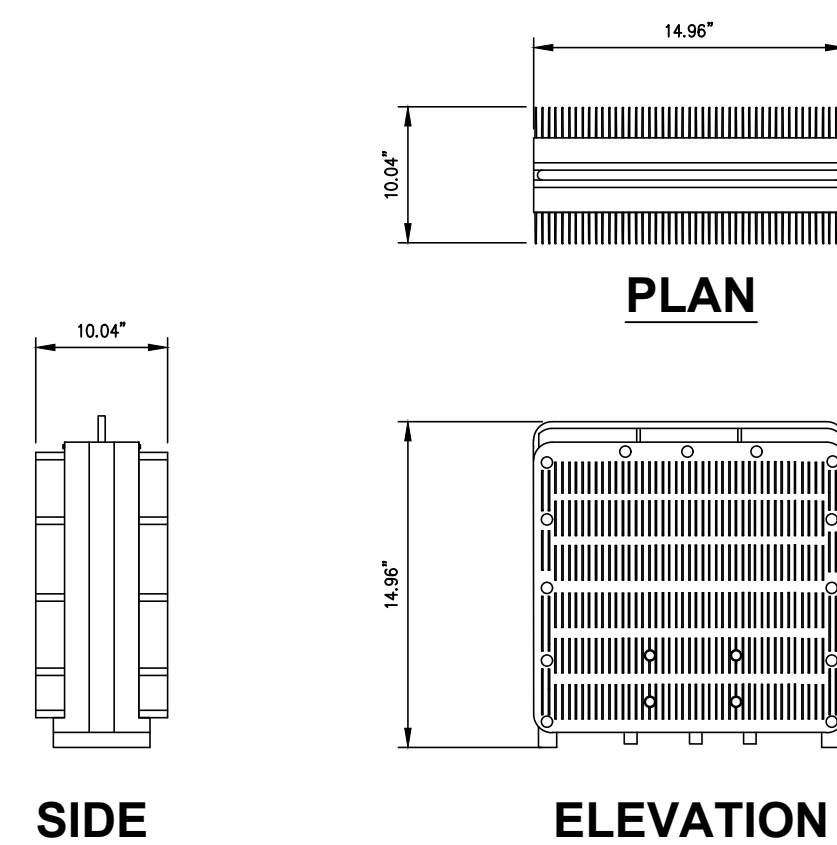
DIMENSIONS, HxWxD: 72.0"x13.80"x8.20"  
 WEIGHT, W/O BRACKETS: 63.30 lbs



3 ANDREW JAHH-65B-R3B ANTENNA DETAIL  
 SCALE: NOT TO SCALE

**SAMSUNG RF4439D-25A**

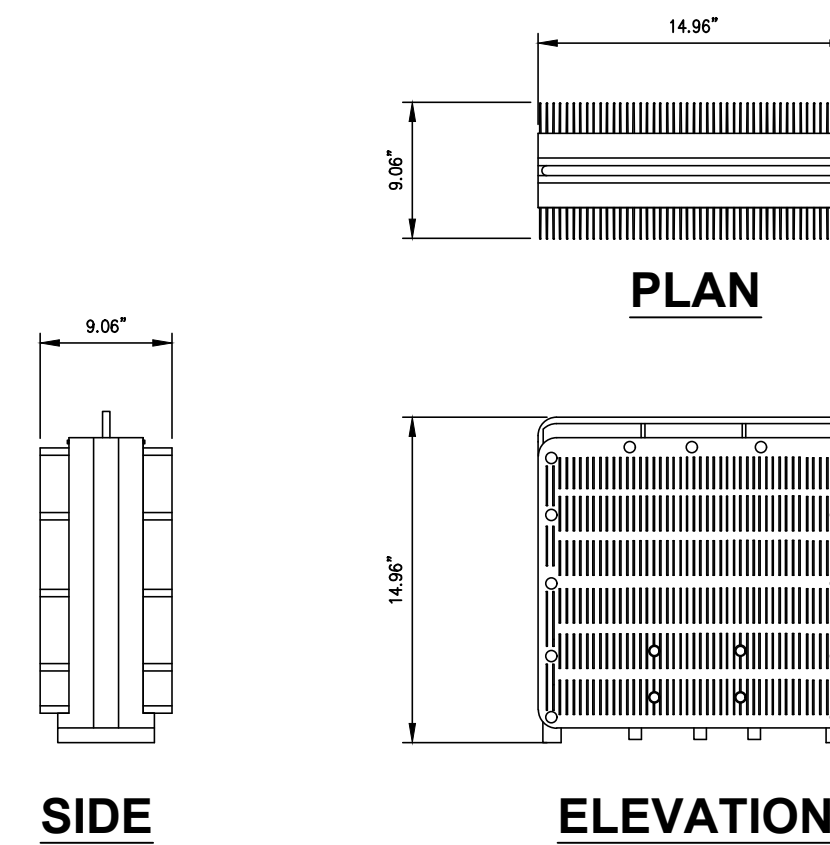
DIMENSIONS, WxDxH: 14.96" X 14.96" X 10.04"  
 TOTAL WEIGHT: 74.70 lbs  
 TEMPERATURE: -40° TO 55° C



4 SAMSUNG RF4439D-25A DETAIL  
 SCALE: NOT TO SCALE

**SAMSUNG RF4440D-13A**

DIMENSIONS, WxDxH: 14.96" X 14.96" X 9.06"  
 TOTAL WEIGHT: 72.50 lbs  
 TEMPERATURE: -40° TO 55° C



5 SAMSUNG RF4440d-13A DETAIL  
 SCALE: NOT TO SCALE

**FIBER NAMING CONVENTION**

| Technology               | (Equipment-Sector-OPTI #) |
|--------------------------|---------------------------|
| <b>DUPLEX FIBER RUN</b>  |                           |
| 5GmmW L0                 | 5GmmW-A-0                 |
| <b>SIMPLEX FIBER RUN</b> |                           |
| CBRS L0                  | CBRS-A-0                  |
| CBRS L1                  | CBRS-A-1                  |
| LAA L0                   | LAA-A-0                   |
| High Band Dual Band L0   | HB-A-0                    |
| High Band Dual Band L1   | HB-A-1                    |
| Low Band Dual Band L0    | LB-A-0                    |
| FDMIMO AWS L0            | FDM-AWS-A-0               |
| FDMIMO AWS L1            | FDM-AWS-A-1               |
| FDMIMO PCS L0            | FDM-PCS-A-0               |
| FDMIMO PCS L1            | FDM-PCS-A-1               |

Rev. 2/23/2021

6 FIBER NAMING CONVENTION  
 SCALE: NOT TO SCALE

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EXISTING 150'-0" MONOPOLE

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| 0   | 10/18/2021 | RCD  | FINAL CDs   | --      |

08/05/2021 **ISSUED FOR:**

10/19/2021

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SHEET NUMBER: **C-5** REVISION: **0**

|                       |       |        |        |                      |      |        |        |                       |       |        |        |
|-----------------------|-------|--------|--------|----------------------|------|--------|--------|-----------------------|-------|--------|--------|
| <b>Alpha AWS</b>      |       |        |        | <b>Beta AWS</b>      |      |        |        | <b>Gamma AWS</b>      |       |        |        |
| Port 1                | WHITE | Yellow |        | Port 1               | Blue | Yellow |        | Port 1                | Green | Yellow |        |
| Port 2                | WHITE | Yellow | Yellow | Port 2               | Blue | Yellow | Yellow | Port 2                | Green | Yellow | Yellow |
| Port 3                | WHITE | Yellow | Yellow | Port 3               | Blue | Yellow | Yellow | Port 3                | Green | Yellow | Yellow |
| Port 4                | WHITE | Yellow | Yellow | Port 4               | Blue | Yellow | Yellow | Port 4                | Green | Yellow | Yellow |
| <b>Alpha PCS</b>      |       |        |        | <b>Beta PCS</b>      |      |        |        | <b>Gamma PCS</b>      |       |        |        |
| Port 1                | WHITE | Cyan   |        | Port 1               | Blue | Cyan   |        | Port 1                | Green | Cyan   |        |
| Port 2                | WHITE | Cyan   | Cyan   | Port 2               | Blue | Cyan   | Cyan   | Port 2                | Green | Cyan   | Cyan   |
| Port 3                | WHITE | Cyan   | Cyan   | Port 3               | Blue | Cyan   | Cyan   | Port 3                | Green | Cyan   | Cyan   |
| Port 4                | WHITE | Cyan   | Cyan   | Port 4               | Blue | Cyan   | Cyan   | Port 4                | Green | Cyan   | Cyan   |
| <b>Alpha LTE 700</b>  |       |        |        | <b>Beta LTE 700</b>  |      |        |        | <b>Gamma LTE 700</b>  |       |        |        |
| Port 1                | WHITE | Red    |        | Port 1               | Blue | Red    |        | Port 1                | Green | Red    |        |
| Port 2                | WHITE | Red    | Red    | Port 2               | Blue | Red    | Red    | Port 2                | Green | Red    | Red    |
| Port 3                | WHITE | Red    | Red    | Port 3               | Blue | Red    | Red    | Port 3                | Green | Red    | Red    |
| Port 4                | WHITE | Red    | Red    | Port 4               | Blue | Red    | Red    | Port 4                | Green | Red    | Red    |
| <b>Alpha 850 LTE</b>  |       |        |        | <b>Beta 850 LTE</b>  |      |        |        | <b>Gamma 850 LTE</b>  |       |        |        |
| Port 1                | WHITE | Pink   |        | Port 1               | Blue | Pink   |        | Port 1                | Green | Pink   |        |
| Port 2                | WHITE | Pink   | Pink   | Port 2               | Blue | Pink   | Pink   | Port 2                | Green | Pink   | Pink   |
| Port 3                | WHITE | Pink   | Pink   | Port 3               | Blue | Pink   | Pink   | Port 3                | Green | Pink   | Pink   |
| Port 4                | WHITE | Pink   | Pink   | Port 4               | Blue | Pink   | Pink   | Port 4                | Green | Pink   | Pink   |
| <b>Alpha 850 CDMA</b> |       |        |        | <b>Beta 850 CDMA</b> |      |        |        | <b>Gamma 850 CDMA</b> |       |        |        |
| Port 1                | WHITE | Grey   |        | Port 1               | Blue | Grey   |        | Port 1                | Green | Grey   |        |
| Port 2                | WHITE | Grey   | Grey   | Port 2               | Blue | Grey   | Grey   | Port 2                | Green | Grey   | Grey   |
| <b>Alpha EVDO</b>     |       |        |        | <b>Beta EVDO</b>     |      |        |        | <b>Gamma EVDO</b>     |       |        |        |
| Port 1                | WHITE | Purple |        | Port 1               | Blue | Purple |        | Port 1                | Green | Purple |        |
| Port 2                | WHITE | Purple | Purple | Port 2               | Blue | Purple | Purple | Port 2                | Green | Purple | Purple |

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| GPS 1 | Brown |       |       |       |
| GPS 2 | Brown | Brown |       |       |
| GPS 3 | Brown | Brown | Brown |       |
| GPS 4 | Brown | Brown | Brown | Brown |

|                                |       |      |     |
|--------------------------------|-------|------|-----|
| <b>Alpha 850 LTE + 700 LTE</b> |       |      |     |
| Port 1                         | WHITE | Pink | Red |
| Port 2                         | WHITE | Pink | Red |
| Port 3                         | WHITE | Pink | Red |
| Port 4                         | WHITE | Pink | Red |
| <b>Beta 850 LTE + 700 LTE</b>  |       |      |     |
| Port 1                         | Blue  | Pink | Red |
| Port 2                         | Blue  | Pink | Red |
| Port 3                         | Blue  | Pink | Red |
| Port 4                         | Blue  | Pink | Red |
| <b>Gamma 850 LTE + 700 LTE</b> |       |      |     |
| Port 1                         | Green | Pink | Red |
| Port 2                         | Green | Pink | Red |
| Port 3                         | Green | Pink | Red |
| Port 4                         | Green | Pink | Red |

|                    |       |      |      |                       |
|--------------------|-------|------|------|-----------------------|
| Alpha 850 NR Fiber | White | Pink | Pink | Ptouch - Alpha 850 NR |
| Beta 850 NR Fiber  | Blue  | Pink | Pink | Ptouch - Beta 850 NR  |
| Gamma 850 NR Fiber | Green | Pink | Pink | Ptouch - Gamma 850 NR |

1 COLOR CODE MATRIX  
SCALE: NOT TO SCALE



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1200 MACARTHUR BLVD, SUITE 200  
MAHWAH, NJ 07430



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VERIZON SITE NUMBER:  
468078

BU #: 841289  
OLD SAYBROOK

170 INGHAM HILL ROAD  
OLD SAYBROOK, CT 06475

EXISTING 150'-0" MONOPOLE

08/05/2021 ISSUED FOR:

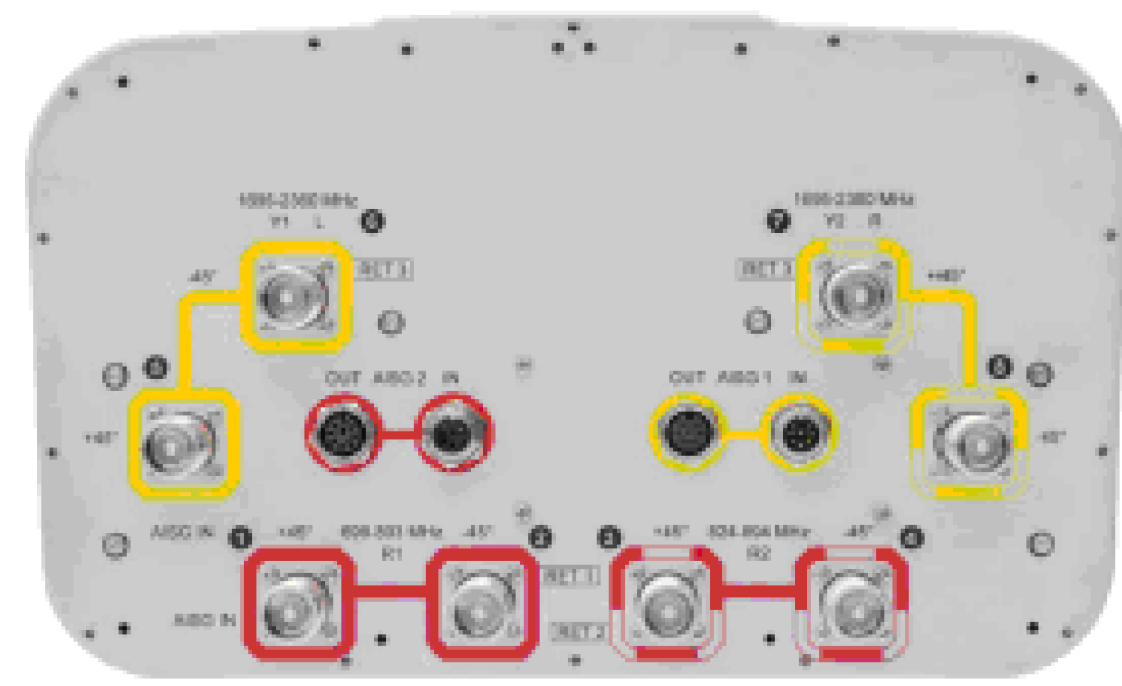
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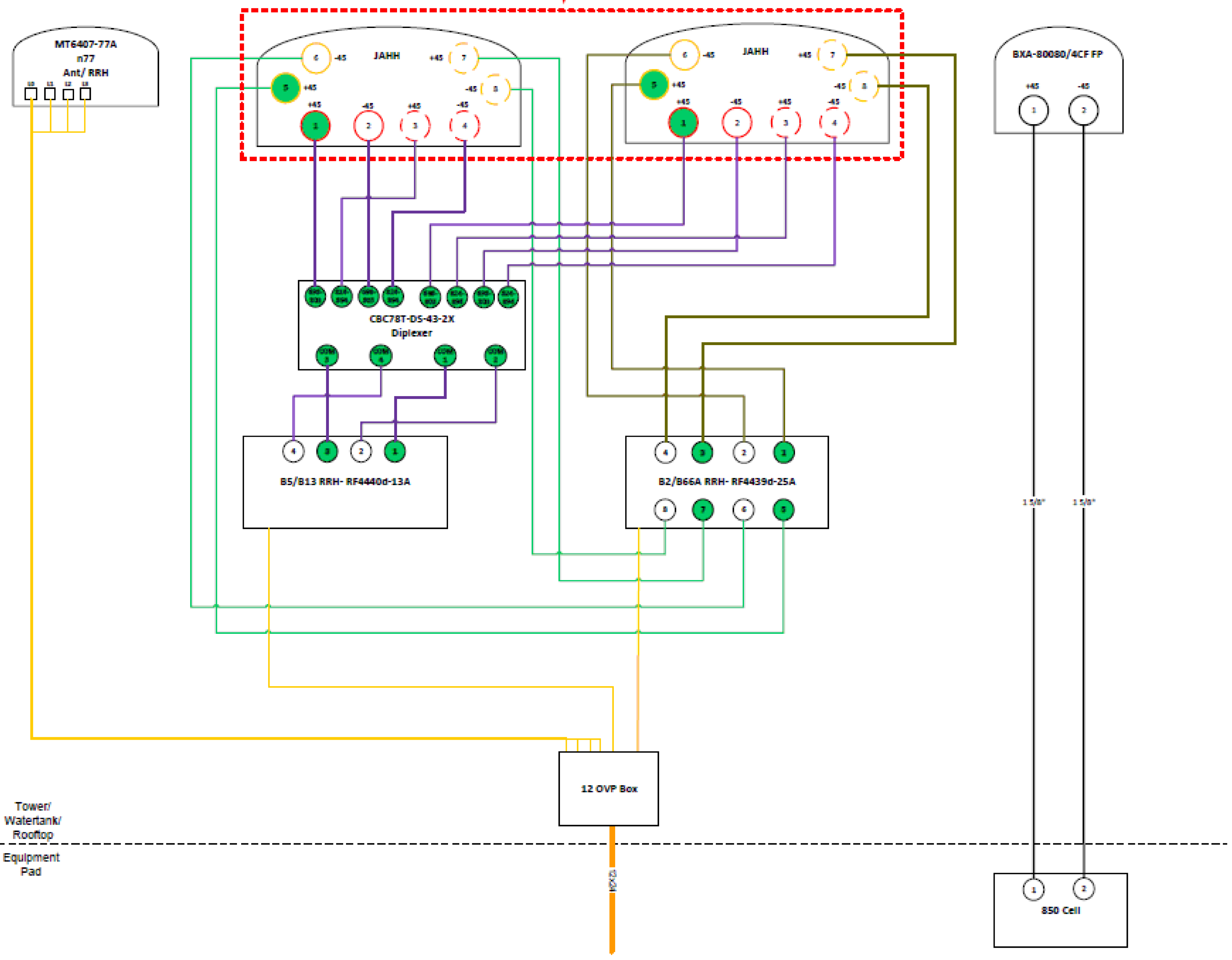
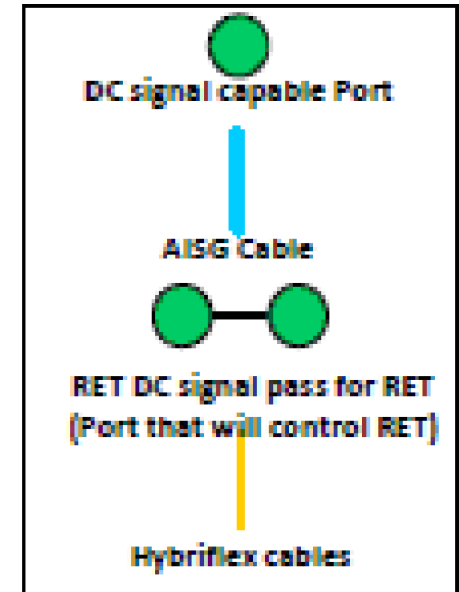
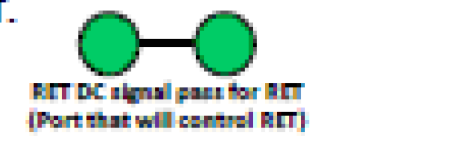
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- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



**Comments:**

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from IN FRONT of antennas.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

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EXISTING 150'-0" MONOPOLE

| REV | DATE       | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|-------------|---------|
| 0   | 10/18/2021 | RCD  | FINAL CDs   | --      |
|     |            |      |             |         |
|     |            |      |             |         |

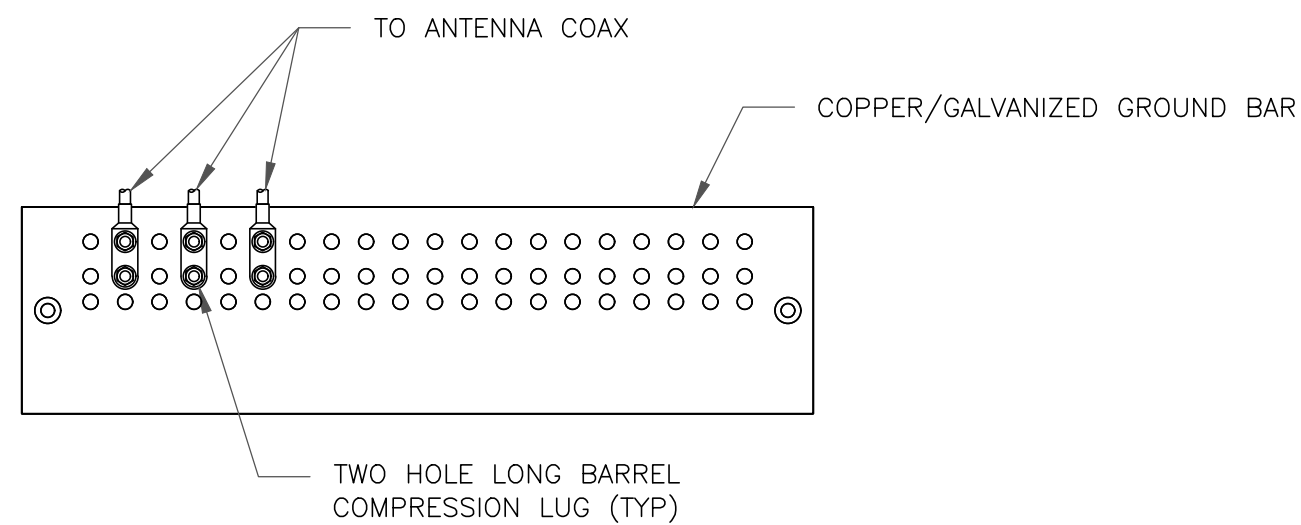
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10/19/2021

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1 PLUMBING DIAGRAM  
 SCALE: NOT TO SCALE



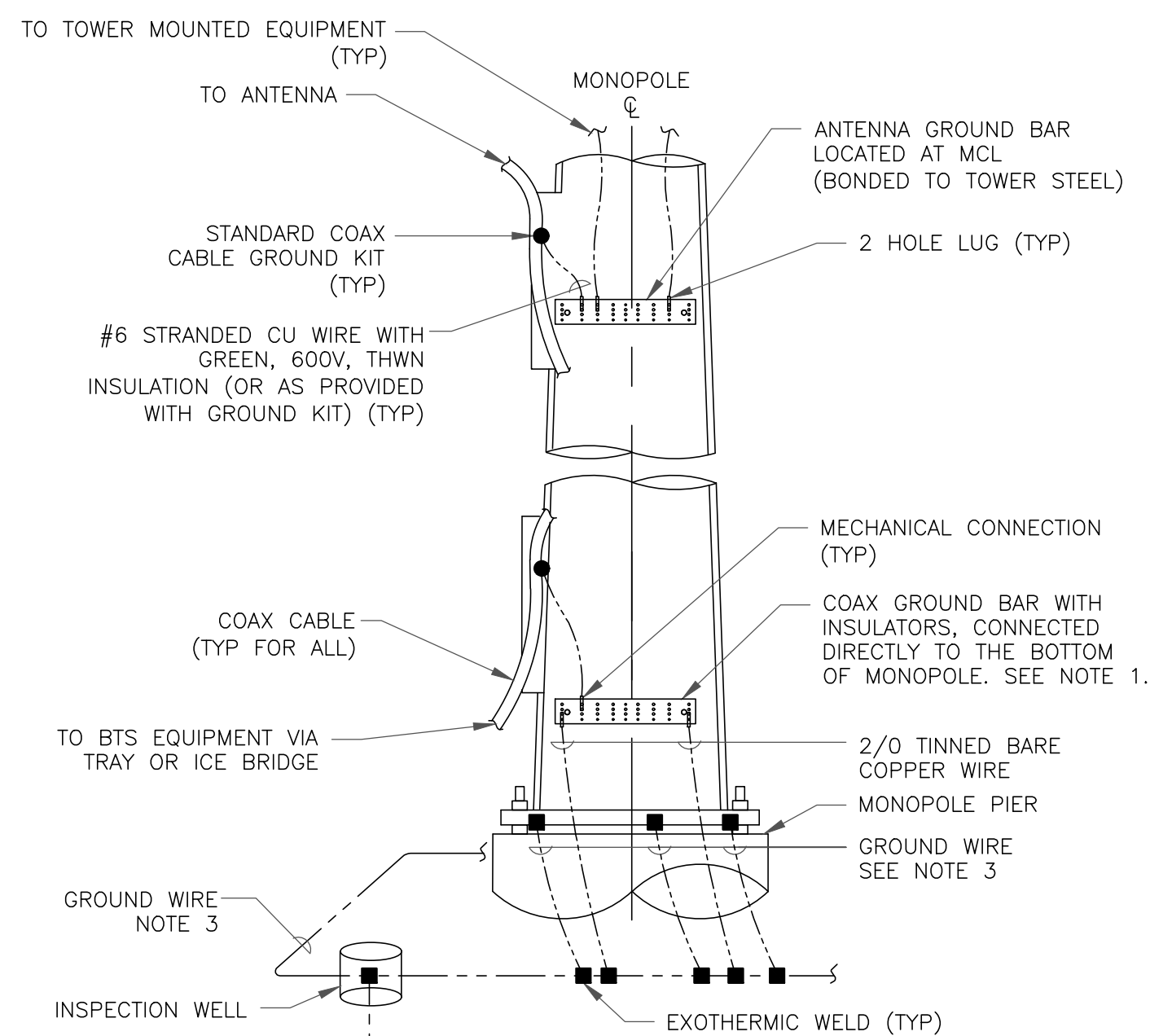
NOTES:

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE

2 NOT USED  
SCALE: NOT TO SCALE

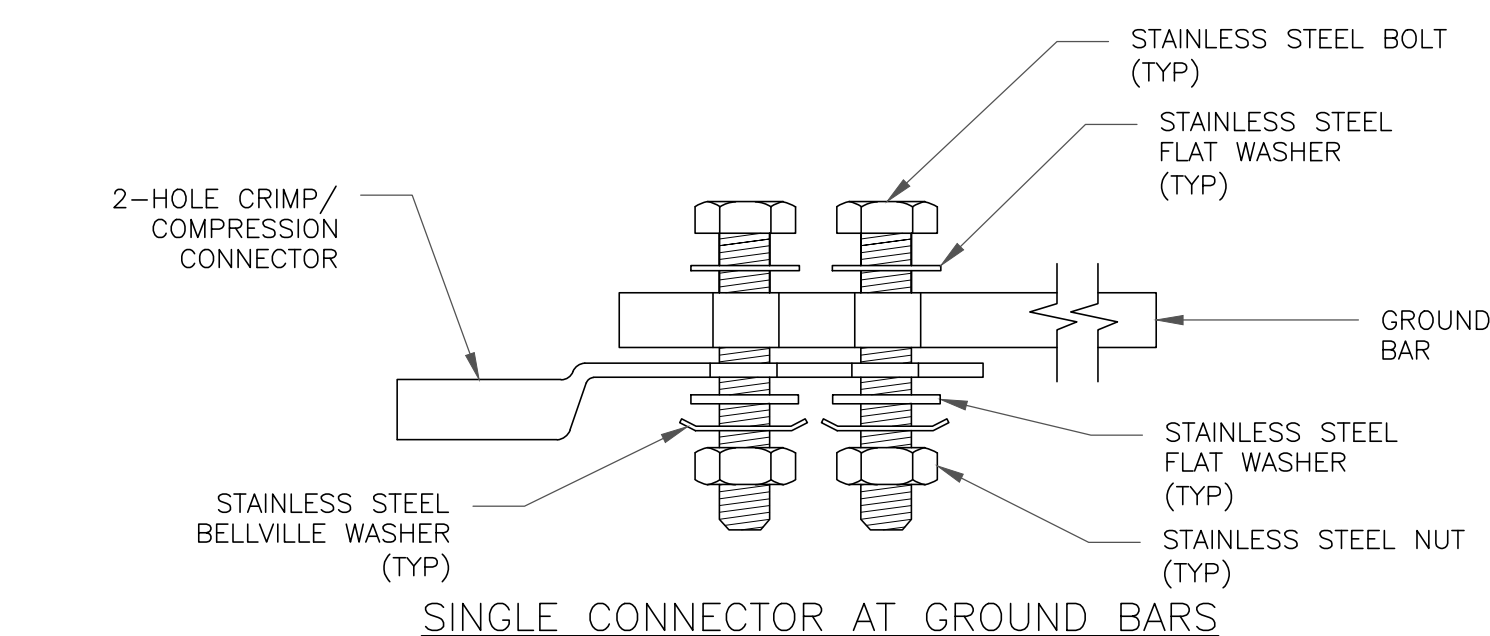
3 NOT USED  
SCALE: NOT TO SCALE



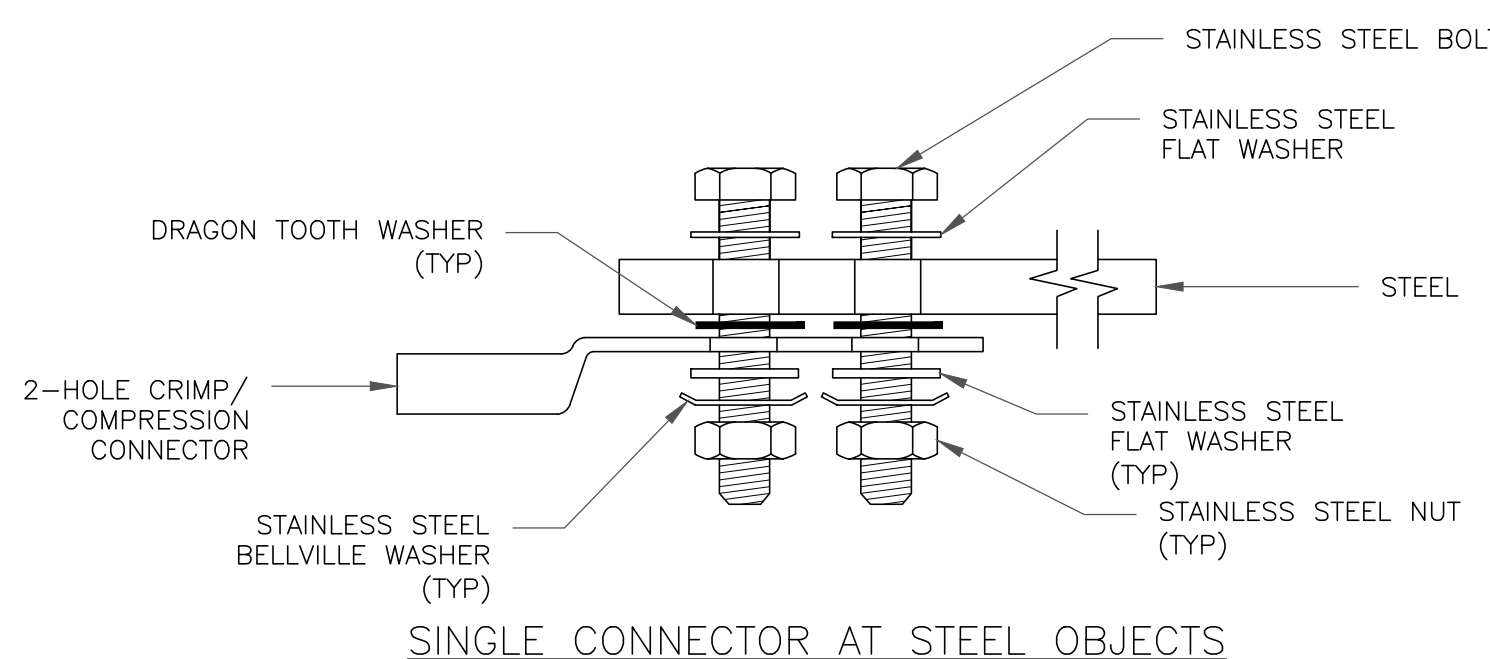
NOTES:

- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

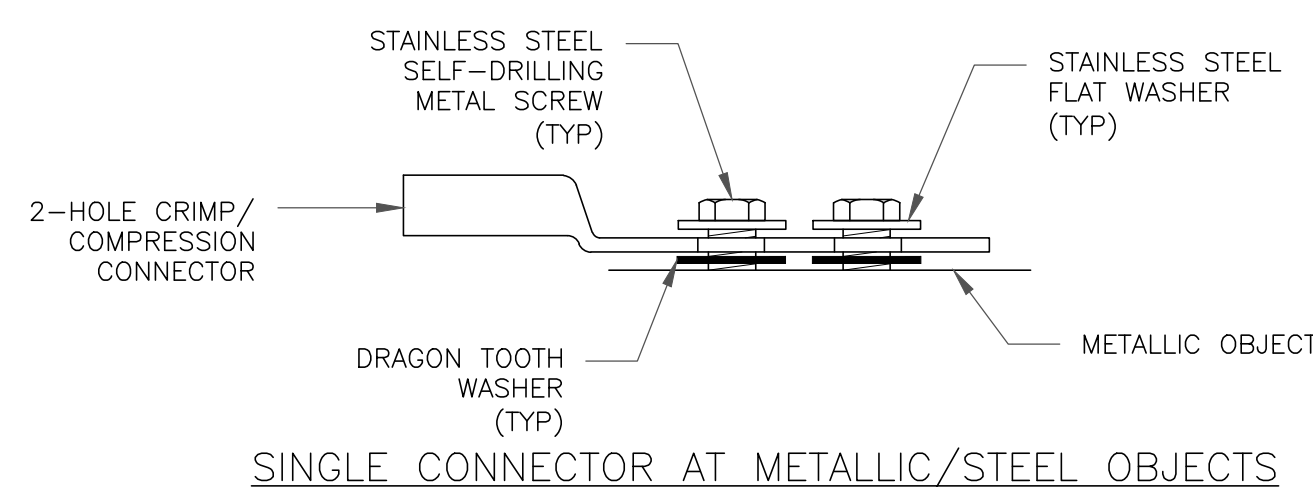
4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE

6 NOT USED  
SCALE: NOT TO SCALE

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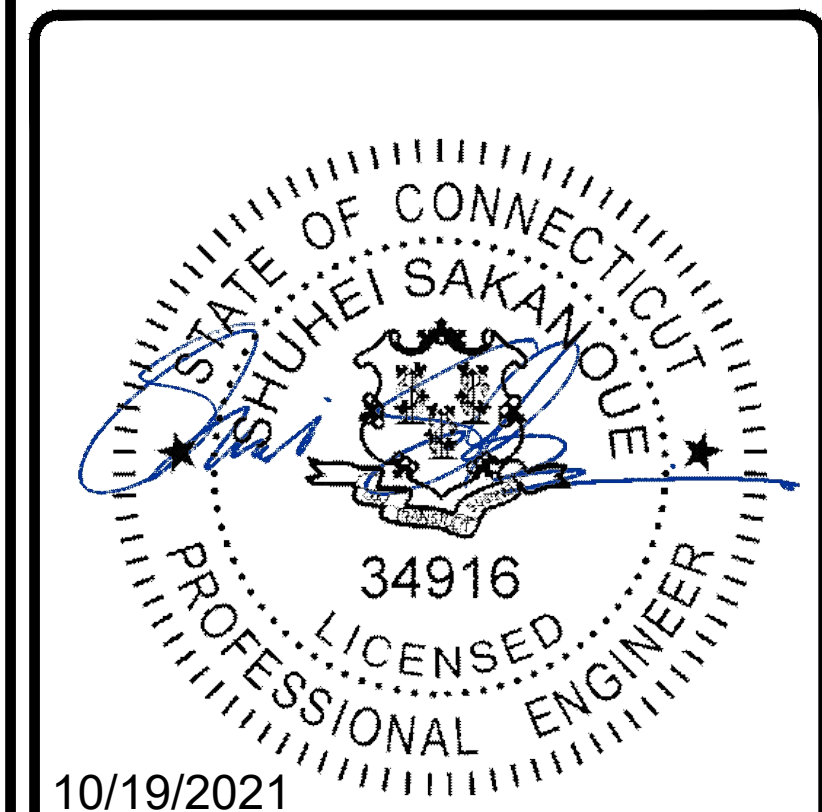
VERIZON SITE NUMBER:  
468078

BU #: 841289  
OLD SAYBROOK

170 INGHAM HILL ROAD  
OLD SAYBROOK, CT 06475

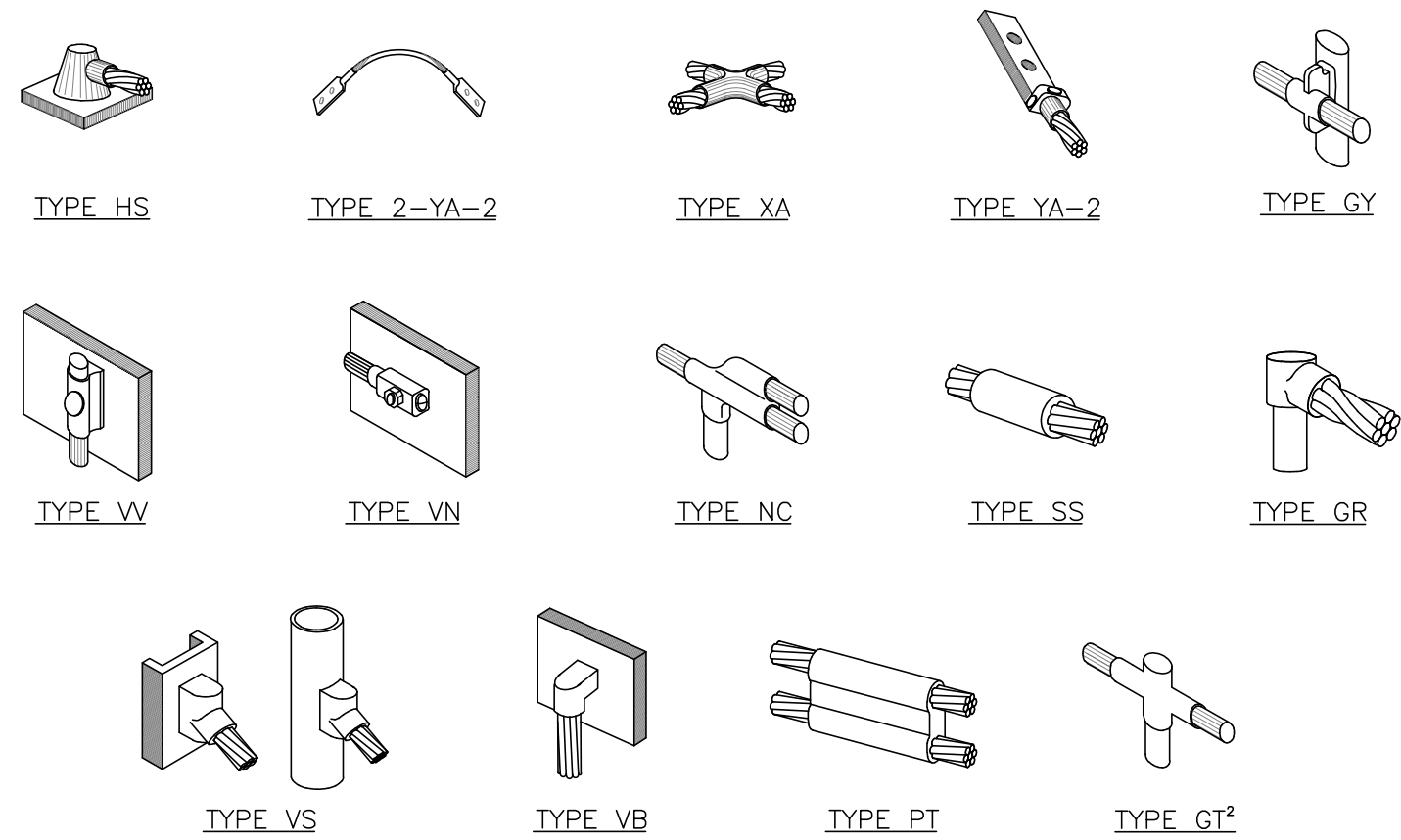
EXISTING 150'-0" MONOPOLE

| REV | DATE       | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|-------------|---------|
| 0   | 10/18/2021 | RCD  | FINAL CDs   | --      |
|     |            |      |             |         |
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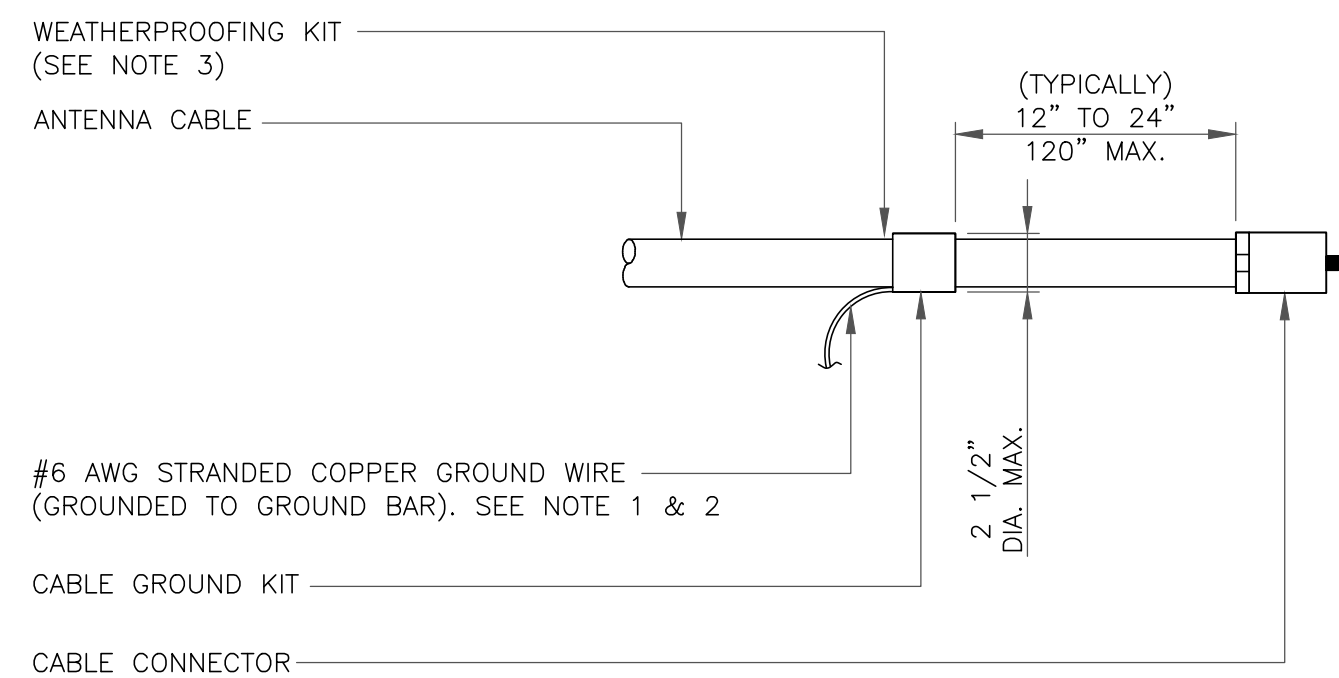
SHEET NUMBER: **G-1** REVISION: **0**



**NOTE:**

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

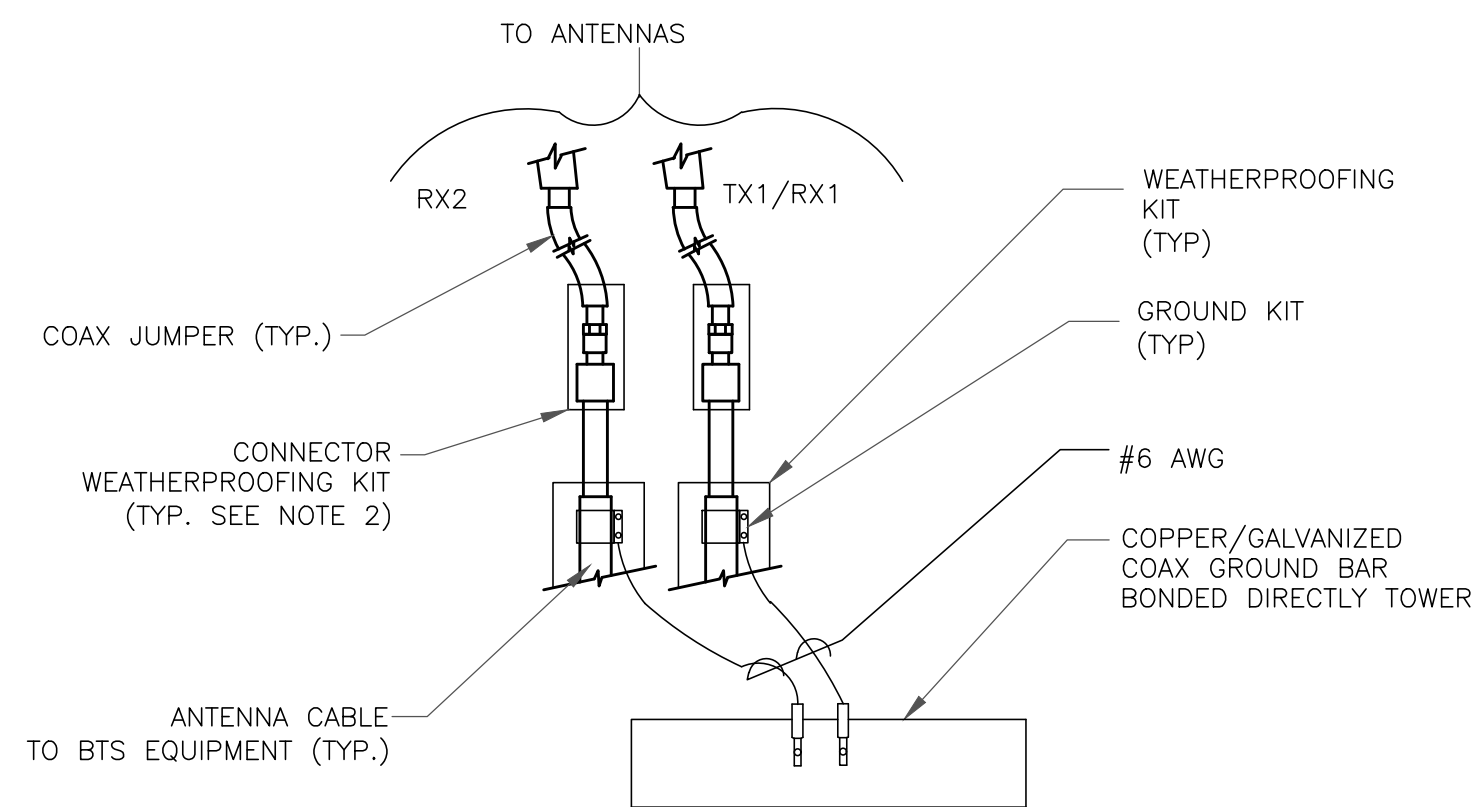
**1 CADWELD GROUNDING CONNECTIONS**  
SCALE: NOT TO SCALE



**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

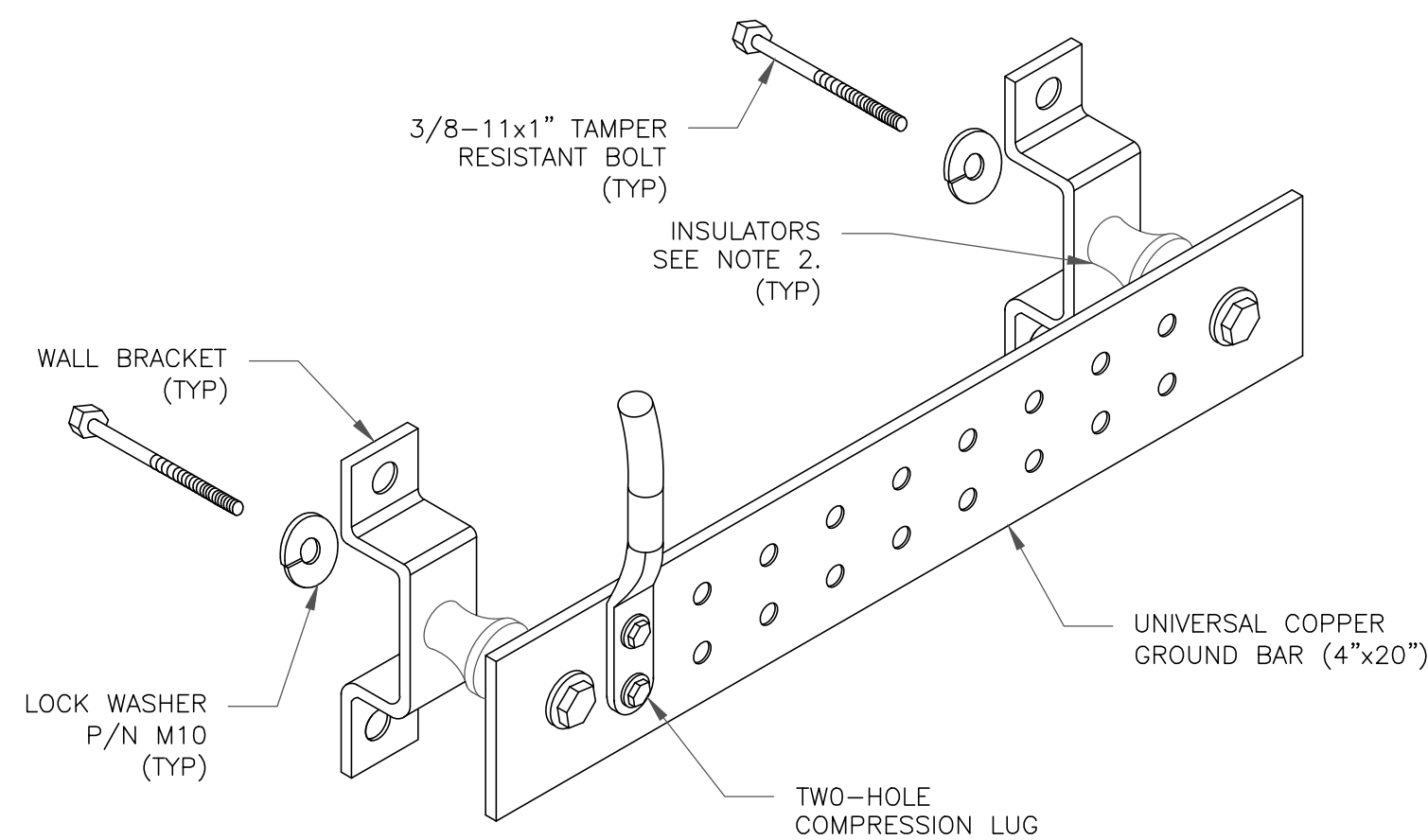
**3 CABLE GROUND KIT CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

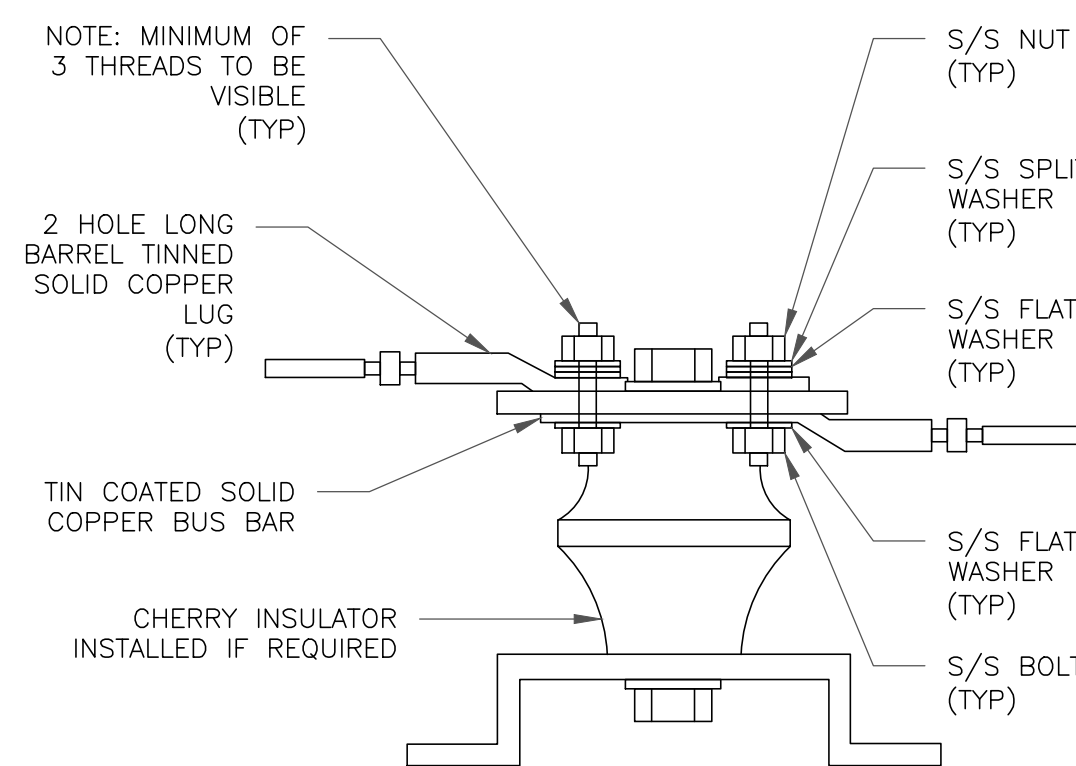
**4 GROUND CABLE CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

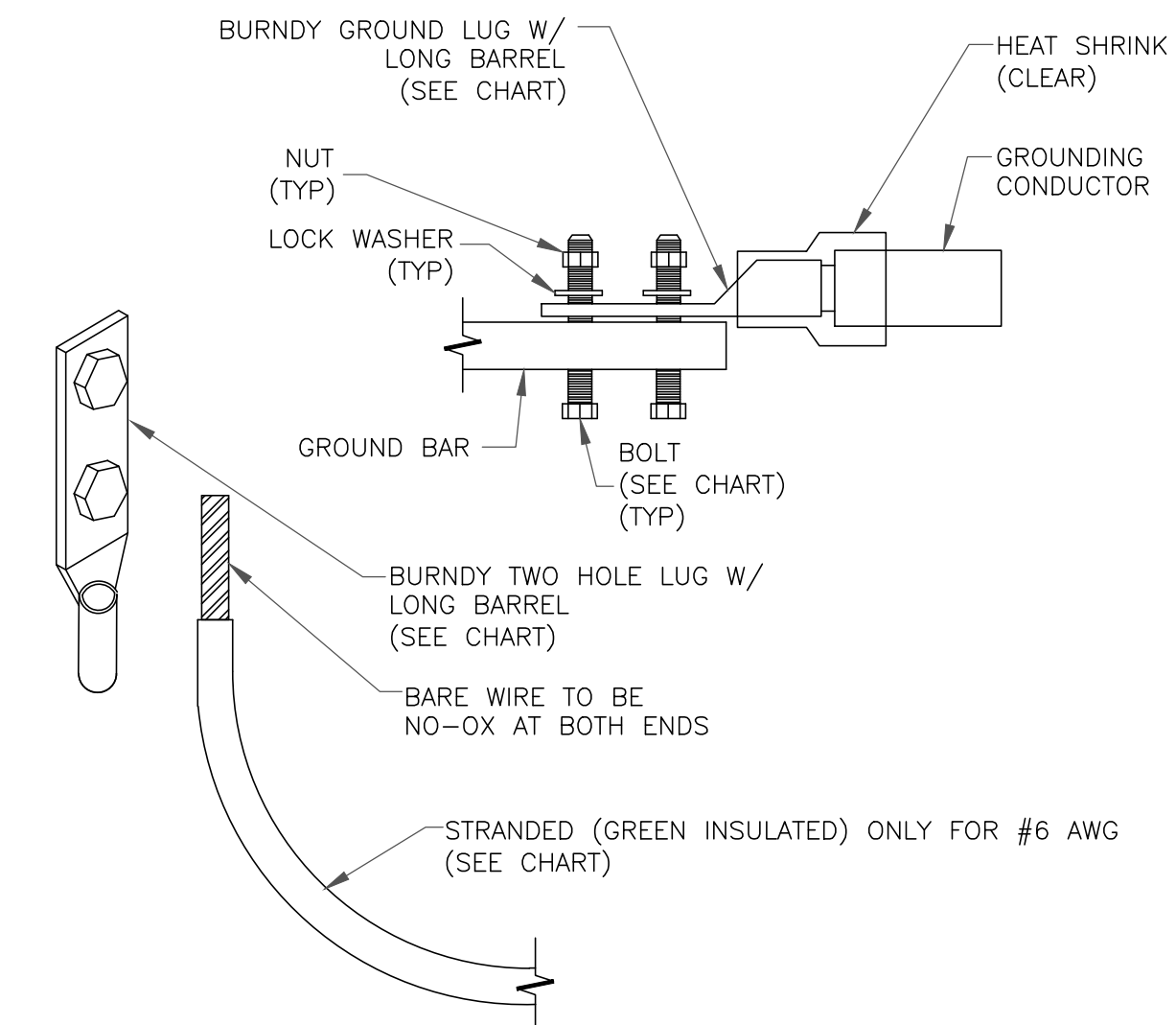
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

**6 GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**7 LUG DETAIL**  
SCALE: NOT TO SCALE

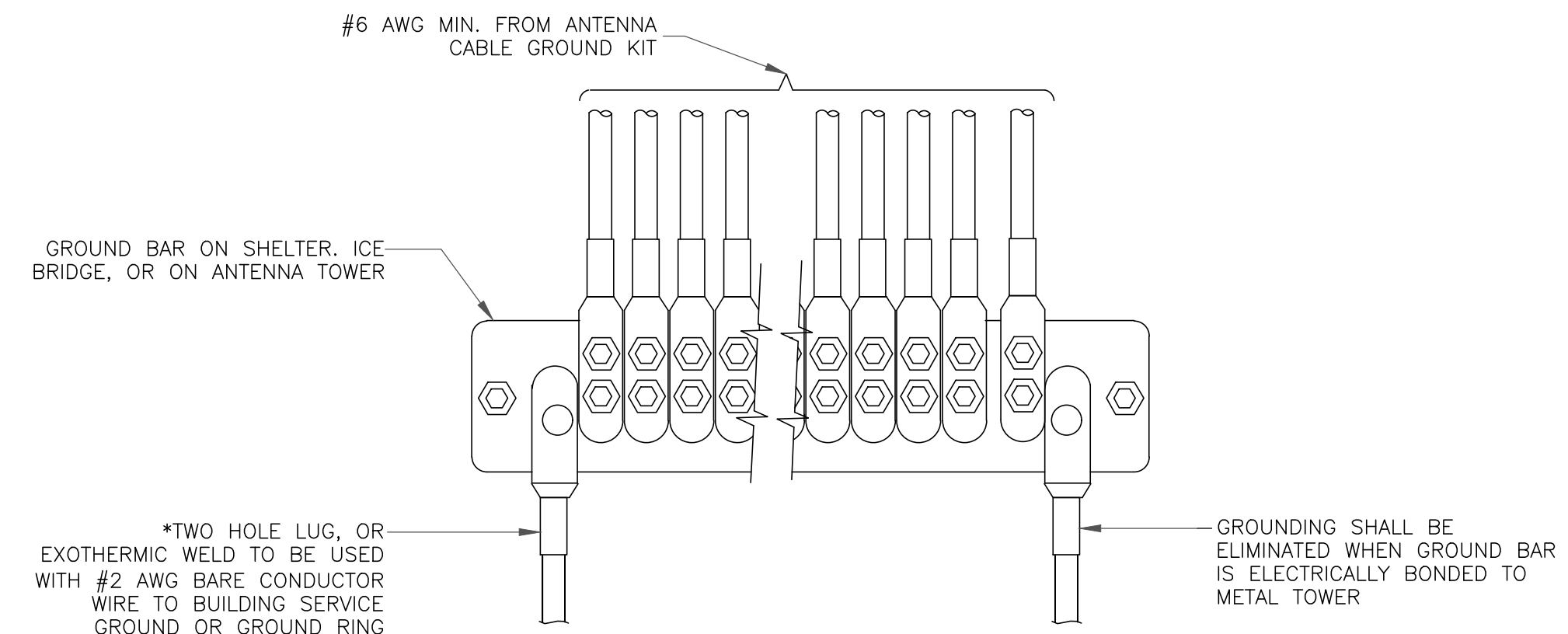
| WIRE SIZE              | BURNDY LUG | BOLT SIZE             |
|------------------------|------------|-----------------------|
| #6 AWG GREEN INSULATED | YA6C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG SOLID TINNED    | YA3C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG STRANDED        | YA2C-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #2/0 AWG STRANDED      | YA26-2TC38 | 3/8" - 16 NC S 2 BOLT |
| #4/0 AWG STRANDED      | YA28-2N    | 1/2" - 16 NC S 2 BOLT |



**NOTES:**

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

**2 MECHANICAL LUG CONNECTION**  
SCALE: NOT TO SCALE



**5 GROUNDWIRE INSTALLATION**  
SCALE: NOT TO SCALE

**8 NOT USED**  
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:  
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BU #: 841289  
**OLD SAYBROOK**

170 INGHAM HILL ROAD  
OLD SAYBROOK, CT 06475

EXISTING 150'-0" MONOPOLE

| REV | DATE       | DRWN | DESCRIPTION | DES./QA |
|-----|------------|------|-------------|---------|
| 0   | 10/18/2021 | RCD  | FINAL CDs   | --      |

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STATE OF CONNECTICUT  
SHUHEI SAKANQUE  
34916  
LICENSED PROFESSIONAL ENGINEER  
10/19/2021

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SHEET NUMBER: **G-2** REVISION: **0**

# Exhibit D

## **Structural Analysis Report**



Date: **September 14, 2021**

B+T Group  
1717 S. Boulder, Suite 300  
Tulsa, OK 74119  
(918) 587-4630

**Subject:** **Structural Analysis Report**

**Carrier Designation:** **Verizon Wireless Co-Locate**  
**Site Number:** 468078  
**Site Name:** OLD SAYBROOK CT

**Crown Castle Designation:** **BU Number:** 841289  
**Site Name:** OLD SAYBROOK  
**JDE Job Number:** 686132  
**Work Order Number:** 2019443  
**Order Number:** 586098 Rev. 0

**Engineering Firm Designation:** **B+T Group Project Number:** 93496.032.01

**Site Data:** **170 INGHAM HILL ROAD, OLD SAYBROOK, Middlesex County, CT**  
**Latitude 41° 18' 35.55", Longitude -72° 23' 51.13"**  
**150.167 Foot - Monopole Tower**

B+T Group is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

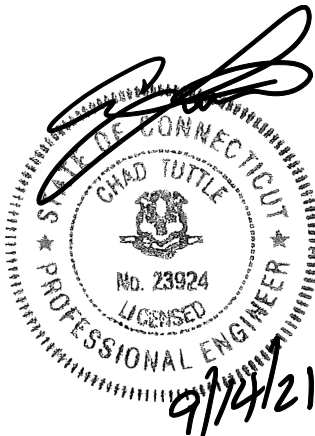
LC5: Proposed Equipment Configuration

**Sufficient Capacity – 76.8%**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2015 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Matthew Williams

Respectfully submitted by: B+T Engineering, Inc.  
COA: PEC.0001564 Expires: 02/10/2022



Chad E. Tuttle, P.E.

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tnxTower Output

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## 1) INTRODUCTION

This tower is a 150.167 ft. monopole designed by Engineered Endeavors Inc.  
 The tower has been modified multiple times to accommodate additional loading.

## 2) ANALYSIS CRITERIA

|                             |           |
|-----------------------------|-----------|
| <b>TIA-222 Revision:</b>    | TIA-222-H |
| <b>Risk Category:</b>       | II        |
| <b>Wind Speed:</b>          | 125 mph   |
| <b>Exposure Category:</b>   | B         |
| <b>Topographic Factor:</b>  | 1         |
| <b>Ice Thickness:</b>       | 1 in      |
| <b>Wind Speed with Ice:</b> | 50 mph    |
| <b>Service Wind Speed:</b>  | 60 mph    |

**Table 1 - Proposed Equipment Configuration**

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model    | Number of Feed Lines | Feed Line Size (in) |                           |
|---------------------|----------------------------|--------------------|----------------------|------------------|----------------------|---------------------|---------------------------|
| 130.0               | 133.0                      | 3                  | Antel                | BXA-80080/4CF    | 2<br>11              | 1-5/8<br>1-1/4      |                           |
|                     |                            | 3                  | Commscope            | CBC78T-DS-43-2X  |                      |                     |                           |
|                     |                            | 2                  | Commscope            | JAHH-45B-R3B     |                      |                     |                           |
|                     |                            | 4                  | Commscope            | JAHH-65B-R3B     |                      |                     |                           |
|                     |                            | 1                  | Raycap               | RVZDC-6627-PF-48 |                      |                     |                           |
|                     |                            | 3                  | Samsung Telecom.     | MT6407-77A       |                      |                     |                           |
|                     |                            | 3                  | Samsung Telecom.     | RF4439D-25A      |                      |                     |                           |
|                     | 3                          | Samsung Telecom.   | RF4440D-13A          |                  |                      |                     |                           |
|                     | 130.0                      | 130.0              | 1                    | --               |                      |                     | Platform Mount [LP 403-1] |
|                     |                            |                    | 2                    | Commscope        |                      |                     | BSAMNT-SBS-2-2            |
|                     |                            |                    | 1                    | Commscope        |                      |                     | BSAMNT-SBS-2-3            |

**Table 2 - Other Considered Equipment**

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model         | Number of Feed Lines | Feed Line Size (in) |                |
|---------------------|----------------------------|--------------------|----------------------|-----------------------|----------------------|---------------------|----------------|
| 149.0               | 150.0                      | 3                  | Andrew               | SBNHH-1D65A           | 12<br>4<br>2         | 1-1/4<br>3/4<br>3/8 |                |
|                     |                            | 2                  | CCI Antennas         | OPA65R-BU4B           |                      |                     |                |
|                     |                            | 1                  | CCI Antennas         | OPA65R-BU8B           |                      |                     |                |
|                     |                            | 3                  | Ericsson             | RADIO 4449 B5 B12_TMO |                      |                     |                |
|                     |                            | 3                  | Ericsson             | RRUS 32               |                      |                     |                |
|                     |                            | 3                  | Ericsson             | RRUS 4426 B66         |                      |                     |                |
|                     |                            | 3                  | Ericsson             | RRUS E2 B29           |                      |                     |                |
|                     |                            | 6                  | Kaelus               | DBC0061F1V51-2        |                      |                     |                |
|                     |                            | 1                  | Kathrein             | 80010799              |                      |                     |                |
|                     |                            | 3                  | Powerwave Tech.      | TT19-08BP111-001      |                      |                     |                |
|                     |                            | 2                  | Quintel Tech.        | QS46512-2             |                      |                     |                |
|                     |                            | 2                  | Raycap               | DC6-48-60-18-8C       |                      |                     |                |
|                     | 149.0                      | 149.0              | 1                    | --                    |                      |                     | Platform Mount |

| Mounting Level (ft) | Center Line Elevation (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model                  | Number of Feed Lines | Feed Line Size (in) |
|---------------------|----------------------------|--------------------|----------------------|--------------------------------|----------------------|---------------------|
|                     |                            |                    |                      | [LP 404-1_KCKR]                |                      |                     |
| 140.0               | 141.0                      | 3                  | Ericsson             | AIR 21 B2A/B4P                 | 4<br>6               | 1-5/8<br>1-1/4      |
|                     |                            | 3                  | Ericsson             | AIR 21 B4A/B2P                 |                      |                     |
|                     |                            | 3                  | Ericsson             | KRY 112 144/1                  |                      |                     |
|                     |                            | 3                  | Ericsson             | RADIO 4449 B12/B71             |                      |                     |
|                     |                            | 3                  | Rfs Celwave          | APXVAALL24_43-U-NA20           |                      |                     |
|                     | 140.0                      | 1                  | --                   | Platform Mount [LP 303-1_HR-1] |                      |                     |
| 71.0                | 72.0                       | 2                  | Kathrein             | FMO                            | 2                    | 1/2                 |
|                     | 71.0                       | 2                  | --                   | Side Arm Mount [SO 305-1]      |                      |                     |
| 22.0                | 22.0                       | 1                  | Maxrad               | MYA-43012N                     | 1                    | 5/16                |
|                     |                            | 1                  | --                   | Side Arm Mount [SO 701-1]      |                      |                     |

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

| Document                           | Reference        | Source    |
|------------------------------------|------------------|-----------|
| Tower Manufacturer Drawing/Mapping | 5204147          | CCI Sites |
| Tower Modification Drawing         | 4489382          | CCI Sites |
| Post Modification Inspection       | 4489415          | CCI Sites |
| Tower Modification Drawing         | 4478711          | CCI Sites |
| Post Modification Inspection       | 4468635          | CCI Sites |
| Tower Modification Drawing         | 5293057          | CCI Sites |
| Post Modification Inspection       | 5874000          | CCI Sites |
| Tower Modification Drawing         | 6254746          | CCI Sites |
| Post Modification Inspection       | 6444911          | CCI Sites |
| Tower Modification Drawing         | 8122612          | CCI Sites |
| Tower Modification Drawing         | 8292599          | CCI Sites |
| Post Modification Inspection       | 9017983          | CCI Sites |
| Foundation Mapping                 | 4591935          | CCI Sites |
| Geotech Report                     | 4468634          | CCI Sites |
| Antenna Configuration              | Date: 09/03/2021 | CCI Sites |

#### 3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

### 3.2) Assumptions

- 1) The tower and structures were maintained in accordance with the - TIA-222 standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the tower.

### 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

| Section No. | Elevation (ft)  | Component Type | Size                  | Critical Element | P (K)    | SF*P_allow (K) | % Capacity | Pass / Fail |
|-------------|-----------------|----------------|-----------------------|------------------|----------|----------------|------------|-------------|
| L1          | 150.17 - 145.17 | Pole           | TP16.31x15.53x0.25    | 1                | -4.877   | --             | 9.2        | Pass        |
| L2          | 145.17 - 140.17 | Pole           | TP17.09x16.31x0.25    | 2                | -5.181   | --             | 17.3       | Pass        |
| L3          | 140.17 - 135.17 | Pole           | TP17.87x17.09x0.25    | 3                | -8.732   | --             | 29.0       | Pass        |
| L4          | 135.17 - 130.17 | Pole           | TP18.65x17.87x0.25    | 4                | -9.174   | --             | 38.4       | Pass        |
| L5          | 130.17 - 125.17 | Pole           | TP19.43x18.65x0.25    | 5                | -13.263  | --             | 54.0       | Pass        |
| L6          | 125.17 - 123.75 | Pole           | TP19.651x19.43x0.25   | 6                | -13.424  | --             | 57.4       | Pass        |
| L7          | 123.75 - 123.5  | Pole + Reinf.  | TP19.69x19.651x0.513  | 7                | -13.481  | --             | 50.3       | Pass        |
| L8          | 123.5 - 118.5   | Pole + Reinf.  | TP20.47x19.69x0.5     | 8                | -14.291  | --             | 61.1       | Pass        |
| L9          | 118.5 - 113.5   | Pole + Reinf.  | TP21.25x20.47x0.488   | 9                | -16.233  | --             | 71.1       | Pass        |
| L10         | 113.5 - 112.17  | Pole + Reinf.  | TP21.458x21.25x0.488  | 10               | -16.879  | --             | 73.6       | Pass        |
| L11         | 112.17 - 111.92 | Pole + Reinf.  | TP21.497x21.458x0.7   | 11               | -17.023  | --             | 47.7       | Pass        |
| L12         | 111.92 - 110.17 | Pole + Reinf.  | TP21.77x21.497x0.7    | 12               | -17.865  | --             | 49.9       | Pass        |
| L13         | 110.17 - 109.92 | Pole + Reinf.  | TP21.813x21.77x0.625  | 13               | -17.959  | --             | 48.9       | Pass        |
| L14         | 109.92 - 104.92 | Pole + Reinf.  | TP22.672x21.813x0.6   | 14               | -20.647  | --             | 54.4       | Pass        |
| L15         | 104.92 - 99.92  | Pole + Reinf.  | TP23.53x22.672x0.588  | 15               | -22.448  | --             | 59.6       | Pass        |
| L16         | 99.92 - 95      | Pole + Reinf.  | TP24.375x23.53x0.575  | 16               | -23.657  | --             | 64.2       | Pass        |
| L17         | 95 - 94.75      | Pole + Reinf.  | TP24.418x24.375x0.7   | 17               | -23.738  | --             | 63.4       | Pass        |
| L18         | 94.75 - 89.75   | Pole + Reinf.  | TP25.277x24.418x0.688 | 18               | -25.125  | --             | 67.9       | Pass        |
| L19         | 89.75 - 85.5    | Pole + Reinf.  | TP26.007x25.277x0.675 | 19               | -233.796 | --             | 66.7       | Pass        |
|             |                 | Guy A@88.6875  | 1 5/8                 | 49               | 153.765  | --             | 75.3       | Pass        |
|             |                 | Guy B@88.6875  | 1 3/8                 | 48               | 84.611   | --             | 57.9       | Pass        |
|             |                 | Guy C@88.6875  | 1 3/8                 | 47               | 95.237   | --             | 65.2       | Pass        |
| L20         | 85.5 - 85.25    | Pole + Reinf.  | TP26.049x26.007x0.863 | 20               | -234.556 | --             | 59.6       | Pass        |
| L21         | 85.25 - 85      | Pole + Reinf.  | TP26.092x26.049x0.863 | 21               | -234.595 | --             | 59.6       | Pass        |
| L22         | 85 - 84.75      | Pole + Reinf.  | TP26.135x26.092x0.838 | 22               | -234.673 | --             | 61.7       | Pass        |
| L23         | 84.75 - 83      | Pole + Reinf.  | TP26.436x26.135x0.838 | 23               | -234.750 | --             | 61.6       | Pass        |
| L24         | 83 - 82.65      | Pole + Reinf.  | TP26.496x26.436x0.713 | 24               | -235.257 | --             | 67.7       | Pass        |
| L25         | 82.65 - 82.42   | Pole + Reinf.  | TP26.536x26.496x0.713 | 25               | -235.358 | --             | 67.7       | Pass        |
| L26         | 82.42 - 77.42   | Pole + Reinf.  | TP27.395x26.536x0.688 | 26               | -235.427 | --             | 66.9       | Pass        |
| L27         | 77.42 - 73.75   | Pole + Reinf.  | TP28.64x27.395x0.688  | 27               | -236.863 | --             | 66.7       | Pass        |
| L28         | 73.75 - 69.17   | Pole + Reinf.  | TP28.079x27.4x0.725   | 28               | -242.775 | --             | 64.2       | Pass        |
| L29         | 69.17 - 64.17   | Pole + Reinf.  | TP28.821x28.079x0.713 | 29               | -243.061 | --             | 64.4       | Pass        |
| L30         | 64.17 - 59.17   | Pole + Reinf.  | TP29.562x28.821x0.725 | 30               | -244.494 | --             | 64.5       | Pass        |
| L31         | 59.17 - 54.17   | Pole + Reinf.  | TP30.304x29.562x0.713 | 31               | -245.943 | --             | 64.5       | Pass        |

| Section No. | Elevation (ft) | Component Type | Size                  | Critical Element | P (K)    | SF*P_allow (K) | % Capacity | Pass / Fail |
|-------------|----------------|----------------|-----------------------|------------------|----------|----------------|------------|-------------|
| L32         | 54.17 - 49.17  | Pole + Reinf.  | TP31.045x30.304x0.7   | 32               | -247.410 | --             | 64.3       | Pass        |
| L33         | 49.17 - 47.17  | Pole + Reinf.  | TP31.342x31.045x0.7   | 33               | -248.896 | --             | 64.2       | Pass        |
| L34         | 47.17 - 46.92  | Pole + Reinf.  | TP31.379x31.342x0.788 | 34               | -249.494 | --             | 58.2       | Pass        |
| L35         | 46.92 - 43.42  | Pole + Reinf.  | TP31.898x31.379x0.775 | 35               | -249.578 | --             | 58.1       | Pass        |
| L36         | 43.42 - 43.17  | Pole + Reinf.  | TP31.935x31.898x0.65  | 36               | -250.722 | --             | 63.9       | Pass        |
| L37         | 43.17 - 38.17  | Pole + Reinf.  | TP32.677x31.935x0.65  | 37               | -250.797 | --             | 63.4       | Pass        |
| L38         | 38.17 - 35.75  | Pole + Reinf.  | TP33.66x32.677x0.65   | 38               | -252.270 | --             | 63.1       | Pass        |
| L39         | 35.75 - 30.54  | Pole           | TP33.161x32.286x0.438 | 39               | -255.033 | --             | 63.3       | Pass        |
| L40         | 30.54 - 25.54  | Pole           | TP34.001x33.161x0.438 | 40               | -255.262 | --             | 61.6       | Pass        |
| L41         | 25.54 - 20.54  | Pole           | TP34.84x34.001x0.438  | 41               | -256.416 | --             | 59.8       | Pass        |
| L42         | 20.54 - 15.54  | Pole           | TP35.68x34.84x0.438   | 42               | -257.709 | --             | 58.0       | Pass        |
| L43         | 15.54 - 10.54  | Pole           | TP36.52x35.68x0.438   | 43               | -258.906 | --             | 56.3       | Pass        |
| L44         | 10.54 - 5.54   | Pole           | TP37.36x36.52x0.438   | 44               | -260.126 | --             | 54.8       | Pass        |
| L45         | 5.54 - 0.54    | Pole           | TP38.2x37.36x0.438    | 45               | -261.367 | --             | 53.4       | Pass        |
| L46         | 0.54 - 0       | Pole           | TP38.29x38.2x0.438    | 46               | -262.632 | --             | 53.2       | Pass        |
|             |                |                |                       |                  |          |                | Summary    |             |
|             |                |                |                       |                  |          | Pole (L39)     | 63.7       | Pass        |
|             |                |                |                       |                  |          | Guy A (L19)    | 75.3       | Pass        |
|             |                |                |                       |                  |          | Guy B (L19)    | 57.9       | Pass        |
|             |                |                |                       |                  |          | Guy C (L19)    | 65.2       | Pass        |
|             |                |                |                       |                  |          | Rating =       | 75.3       | Pass        |

**Table 5 - Tower Component Stresses vs. Capacity – LC5**

| Notes | Component                   | Elevation    | % Capacity | Pass / Fail |      |
|-------|-----------------------------|--------------|------------|-------------|------|
| 1     | Flange Connection           | 110.2        | 53.8       | Pass        |      |
| 1     | Guy Wire Bracket            | 88.8         | 76.8       | Pass        |      |
| 1     | Anchor Rod Bracket          | Base         | 39.2       | Pass        |      |
| 1     | Anchor Rods                 | Base         | 62.5       | Pass        |      |
| 1     | Base Plate                  | Base         | 51.8       | Pass        |      |
| 1     | Base Foundation             | Structure    | Base       | 47.4        | Pass |
|       |                             | Soil         | Base       | 71.3        | Pass |
| 1     | Inner Guy Anchor Foundation | Anchor Shaft | Base       | 75.8        | Pass |
|       |                             | Structure    | Base       | 66.9        | Pass |
|       |                             | Soil         | Base       | 66.4        | Pass |
| 1     | Outer Guy Anchor Foundation | Anchor Shaft | Base       | 46.9        | Pass |
|       |                             | Structure    | Base       | 31.3        | Pass |
|       |                             | Soil         | Base       | 46.6        | Pass |

|   |              |
|---|--------------|
| <b>Structure Rating (max from all components) =</b> | <b>76.8%</b> |
|---|--------------|

Notes:

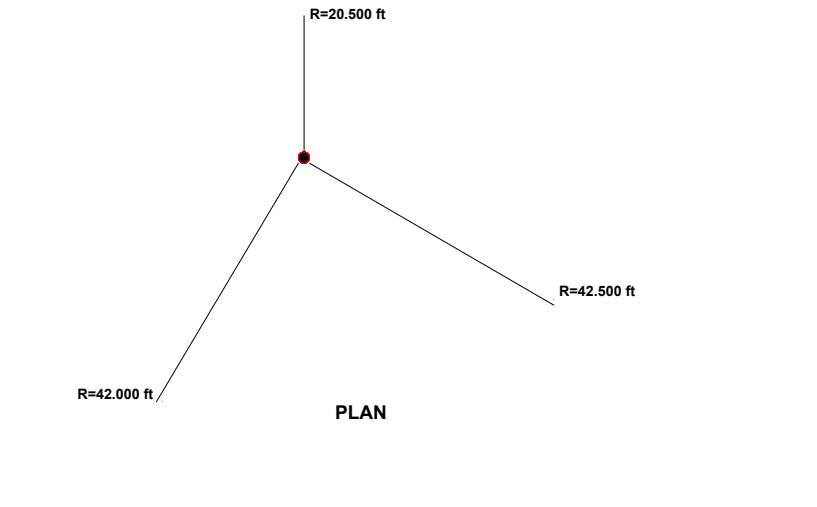
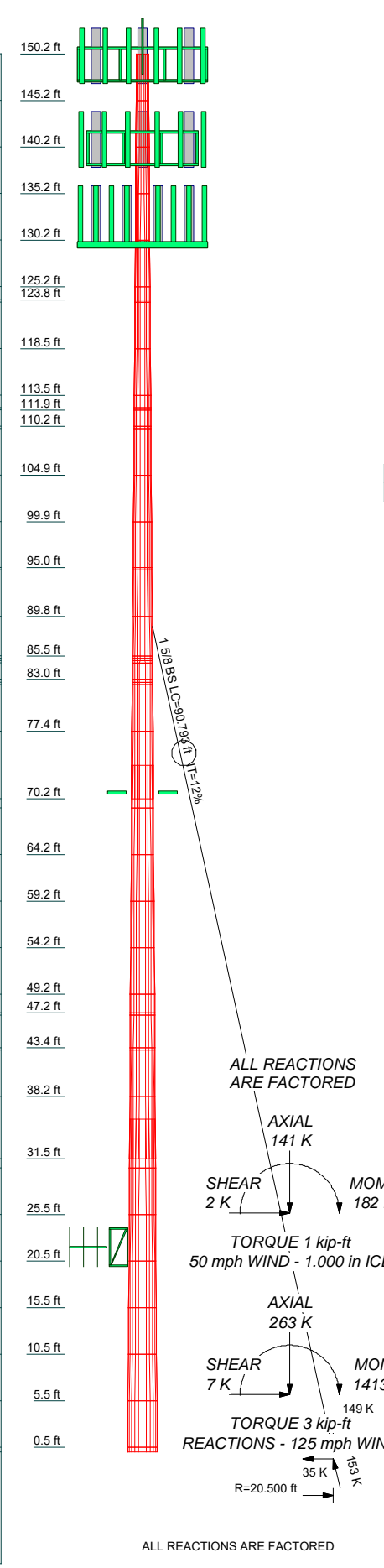
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Rating per TIA-222-H Section 15.5.

**4.1) Recommendations**

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

**APPENDIX A**  
**TNXTOWER OUTPUT**


| Section | Length (ft) | Number of Sides | Thickness (in) | Socket Length (ft) | Top Dia (in) | Bot Dia (in) | Grade | Weight (K) |
|---------|-------------|-----------------|----------------|--------------------|--------------|--------------|-------|------------|
| 1       | 5.000       | 12              | 0.438          | 3.580              | 38.200       | 38.200       | 0.2   | 15.530     |
| 2       | 5.000       | 12              | 0.438          | 4.210              | 39.200       | 39.200       | 0.2   | 16.310     |
| 3       | 5.000       | 12              | 0.438          | 4.840              | 40.200       | 40.200       | 0.2   | 17.090     |
| 4       | 5.000       | 12              | 0.438          | 5.470              | 41.200       | 41.200       | 0.2   | 17.870     |
| 5       | 5.000       | 12              | 0.438          | 6.100              | 42.200       | 42.200       | 0.2   | 18.650     |
| 6       | 5.000       | 12              | 0.438          | 6.730              | 43.200       | 43.200       | 0.2   | 19.430     |
| 7       | 5.000       | 12              | 0.438          | 7.360              | 44.200       | 44.200       | 0.2   | 20.210     |
| 8       | 5.000       | 12              | 0.438          | 7.990              | 45.200       | 45.200       | 0.2   | 20.990     |
| 9       | 5.000       | 12              | 0.438          | 8.620              | 46.200       | 46.200       | 0.2   | 21.770     |
| 10      | 5.000       | 12              | 0.438          | 9.250              | 47.200       | 47.200       | 0.2   | 22.550     |
| 11      | 5.000       | 12              | 0.438          | 9.880              | 48.200       | 48.200       | 0.2   | 23.330     |
| 12      | 5.000       | 12              | 0.438          | 10.510             | 49.200       | 49.200       | 0.2   | 24.110     |
| 13      | 5.000       | 12              | 0.438          | 11.140             | 50.200       | 50.200       | 0.2   | 24.890     |
| 14      | 5.000       | 12              | 0.438          | 11.770             | 51.200       | 51.200       | 0.2   | 25.670     |
| 15      | 5.000       | 12              | 0.438          | 12.400             | 52.200       | 52.200       | 0.2   | 26.450     |
| 16      | 5.000       | 12              | 0.438          | 13.030             | 53.200       | 53.200       | 0.2   | 27.230     |
| 17      | 5.000       | 12              | 0.438          | 13.660             | 54.200       | 54.200       | 0.2   | 28.010     |
| 18      | 5.000       | 12              | 0.438          | 14.290             | 55.200       | 55.200       | 0.2   | 28.790     |
| 19      | 5.000       | 12              | 0.438          | 14.920             | 56.200       | 56.200       | 0.2   | 29.570     |
| 20      | 5.000       | 12              | 0.438          | 15.550             | 57.200       | 57.200       | 0.2   | 30.350     |
| 21      | 5.000       | 12              | 0.438          | 16.180             | 58.200       | 58.200       | 0.2   | 31.130     |
| 22      | 5.000       | 12              | 0.438          | 16.810             | 59.200       | 59.200       | 0.2   | 31.910     |
| 23      | 5.000       | 12              | 0.438          | 17.440             | 60.200       | 60.200       | 0.2   | 32.690     |
| 24      | 5.000       | 12              | 0.438          | 18.070             | 61.200       | 61.200       | 0.2   | 33.470     |
| 25      | 5.000       | 12              | 0.438          | 18.700             | 62.200       | 62.200       | 0.2   | 34.250     |
| 26      | 5.000       | 12              | 0.438          | 19.330             | 63.200       | 63.200       | 0.2   | 35.030     |
| 27      | 5.000       | 12              | 0.438          | 19.960             | 64.200       | 64.200       | 0.2   | 35.810     |
| 28      | 5.000       | 12              | 0.438          | 20.590             | 65.200       | 65.200       | 0.2   | 36.590     |
| 29      | 5.000       | 12              | 0.438          | 21.220             | 66.200       | 66.200       | 0.2   | 37.370     |
| 30      | 5.000       | 12              | 0.438          | 21.850             | 67.200       | 67.200       | 0.2   | 38.150     |
| 31      | 5.000       | 12              | 0.438          | 22.480             | 68.200       | 68.200       | 0.2   | 38.930     |
| 32      | 5.000       | 12              | 0.438          | 23.110             | 69.200       | 69.200       | 0.2   | 39.710     |
| 33      | 5.000       | 12              | 0.438          | 23.740             | 70.200       | 70.200       | 0.2   | 40.490     |
| 34      | 5.000       | 12              | 0.438          | 24.370             | 71.200       | 71.200       | 0.2   | 41.270     |
| 35      | 5.000       | 12              | 0.438          | 25.000             | 72.200       | 72.200       | 0.2   | 42.050     |
| 36      | 5.000       | 12              | 0.438          | 25.630             | 73.200       | 73.200       | 0.2   | 42.830     |
| 37      | 5.000       | 12              | 0.438          | 26.260             | 74.200       | 74.200       | 0.2   | 43.610     |
| 38      | 5.000       | 12              | 0.438          | 26.890             | 75.200       | 75.200       | 0.2   | 44.390     |
| 39      | 5.000       | 12              | 0.438          | 27.520             | 76.200       | 76.200       | 0.2   | 45.170     |
| 40      | 5.000       | 12              | 0.438          | 28.150             | 77.200       | 77.200       | 0.2   | 45.950     |
| 41      | 5.000       | 12              | 0.438          | 28.780             | 78.200       | 78.200       | 0.2   | 46.730     |
| 42      | 5.000       | 12              | 0.438          | 29.410             | 79.200       | 79.200       | 0.2   | 47.510     |
| 43      | 5.000       | 12              | 0.438          | 30.040             | 80.200       | 80.200       | 0.2   | 48.290     |
| 44      | 5.000       | 12              | 0.438          | 30.670             | 81.200       | 81.200       | 0.2   | 49.070     |
| 45      | 5.000       | 12              | 0.438          | 31.300             | 82.200       | 82.200       | 0.2   | 49.850     |
| 46      | 5.000       | 12              | 0.438          | 31.930             | 83.200       | 83.200       | 0.2   | 50.630     |



**MATERIAL STRENGTH**

| GRADE   | Fy     | Fu     | GRADE | Fy | Fu |
|---------|--------|--------|-------|----|----|
| A572-65 | 65 ksi | 80 ksi |       |    |    |

- TOWER DESIGN NOTES**
1. Tower is located in Middlesex County, Connecticut.
  2. Tower designed for Exposure B to the TIA-222-H Standard.
  3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
  4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
  5. Deflections are based upon a 60 mph wind.
  6. Tower Risk Category II.
  7. Topographic Category 1 with Crest Height of 0.000 ft
  8. TIA-222-H Annex S
  9. Tower Rating: 73.6%

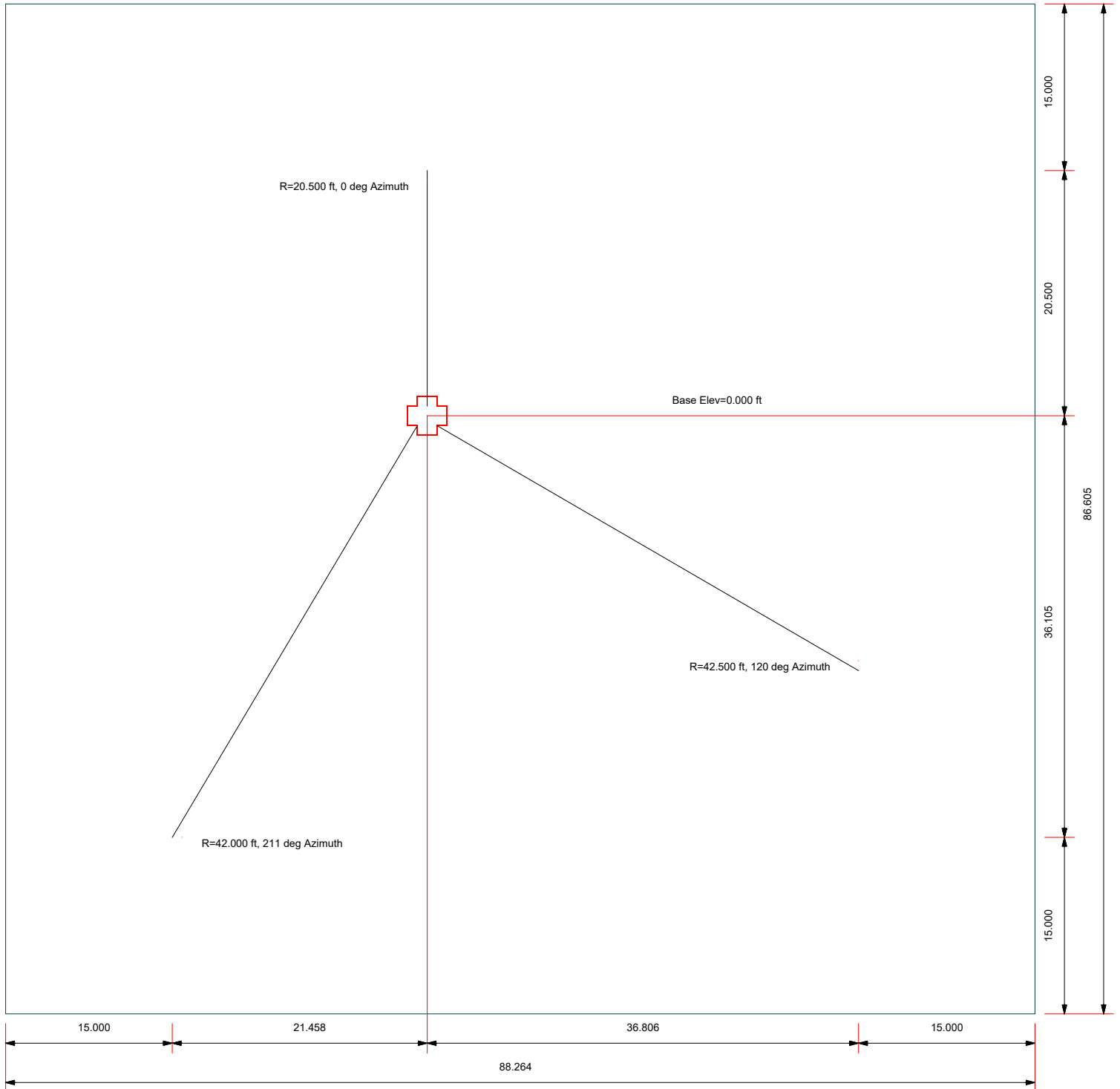


**B+T Group**  
1717 S. Boulder, Suite 300  
Tulsa, OK 74119  
Phone: (918) 587-4630  
FAX: (918) 587-4630

Job: **93496.032.01 - OLD SAYBROOK, CT (BU# 84128)**

|                 |                      |                           |        |
|-----------------|----------------------|---------------------------|--------|
| Project:        | Client: Crown Castle | Drawn by: Nithish Acharya | App'd: |
| Code: TIA-222-H | Date: 09/08/21       | Scale: NTS                |        |
| Path:           |                      | Dwg No: E-1               |        |

**Plot Plan**  
**Total Area - 0.18 Acres**



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|   |                           |             |
|---|---------------------------|-------------|
| Job: <b>93496.032.01 - OLD SAYBROOK, CT (BU# 84128)</b> |                           |             |
| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No: E-2 |

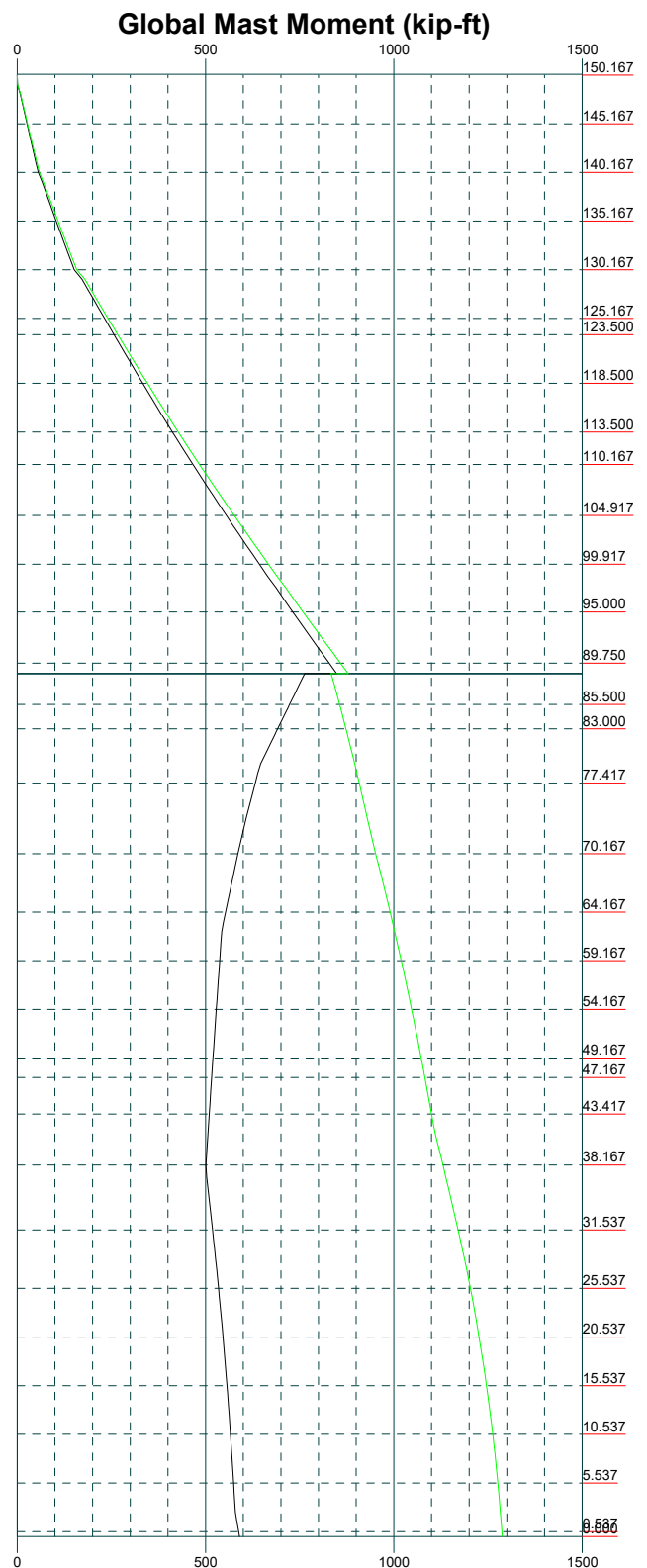
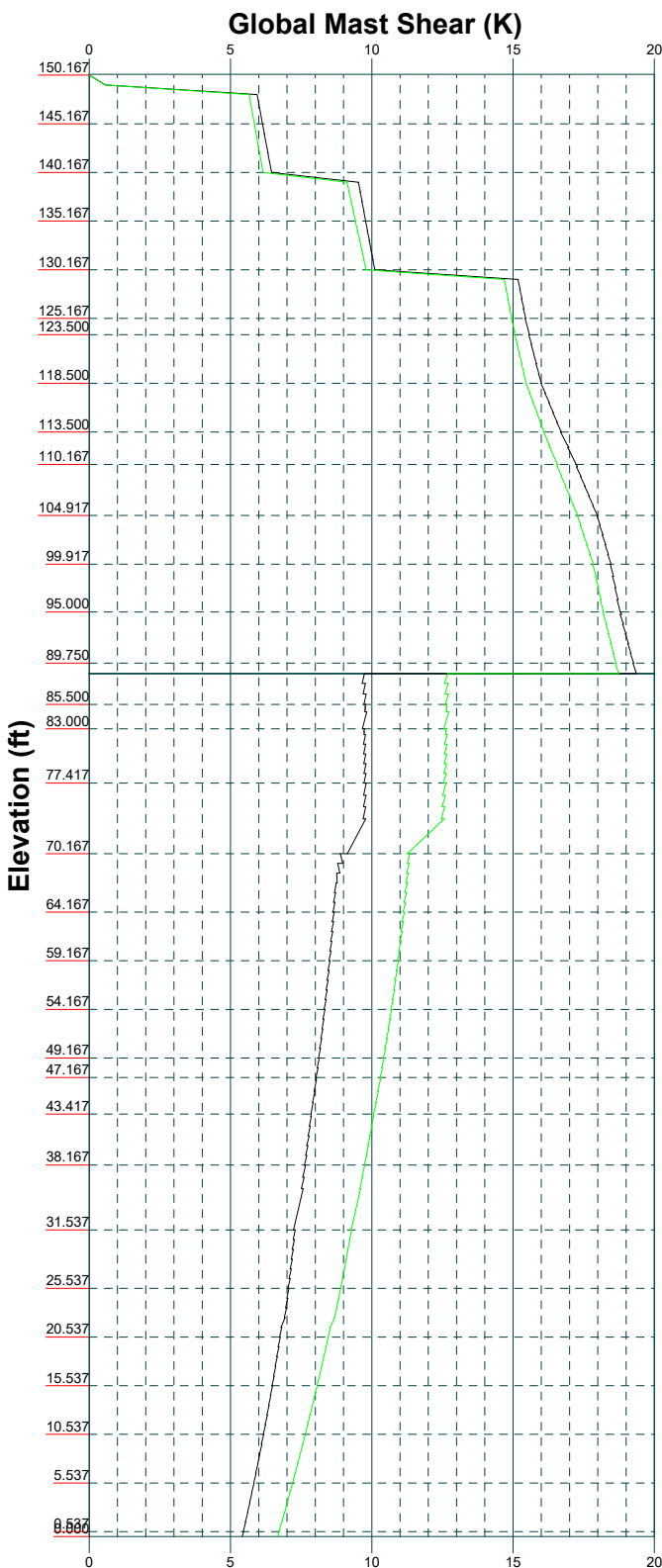


Vx

Vz

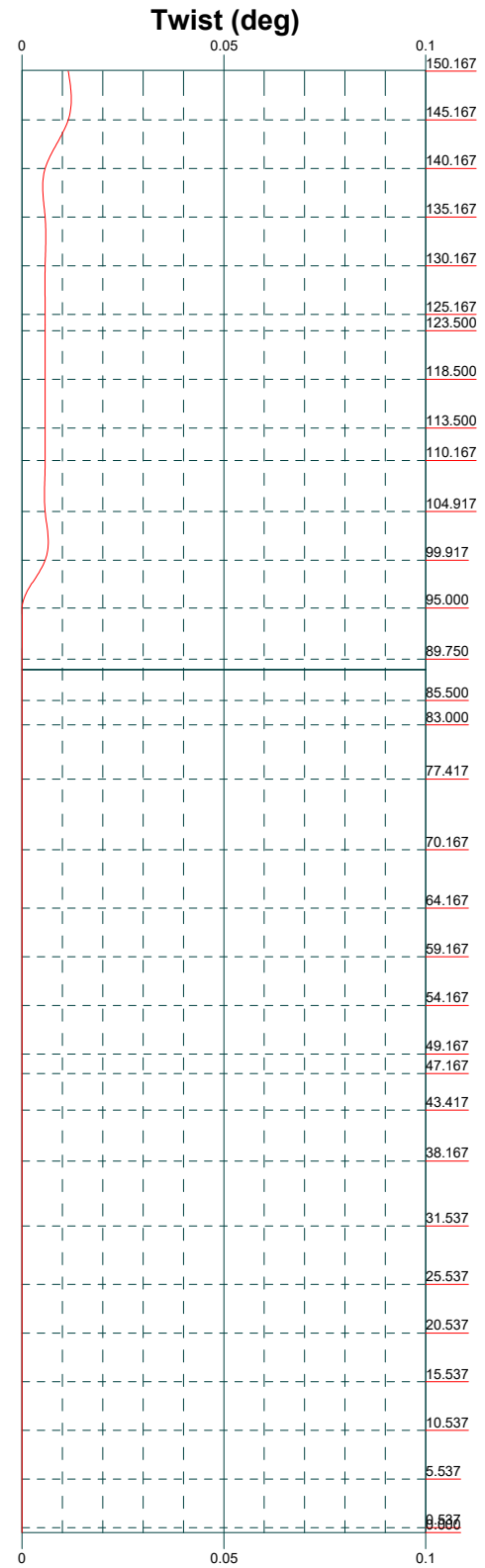
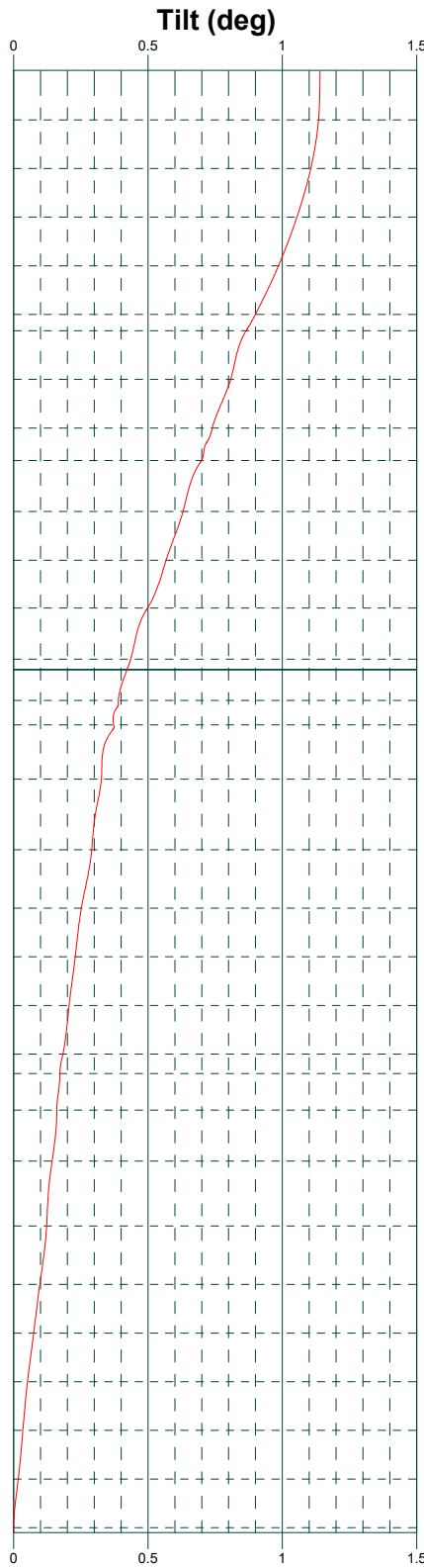
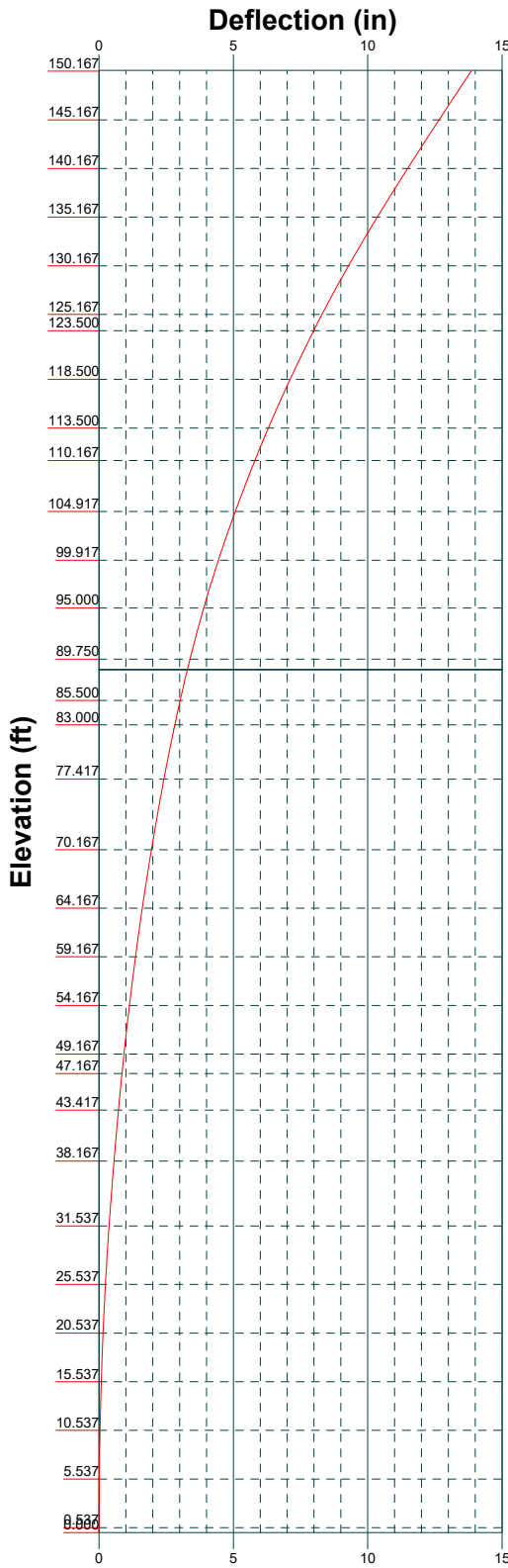
Mx

Mz



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|---|---------------------------|-------------|
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| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No: E-4 |

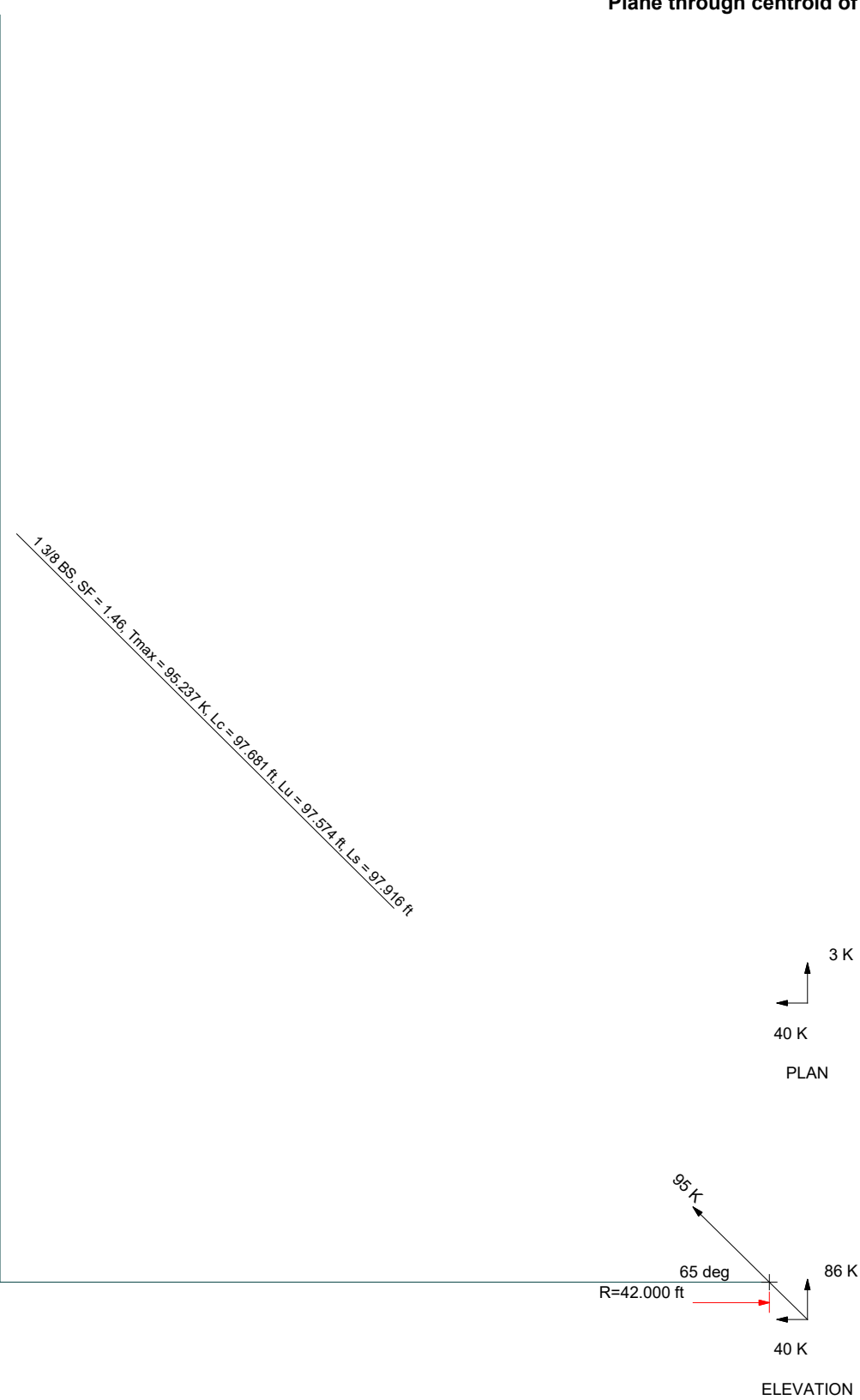
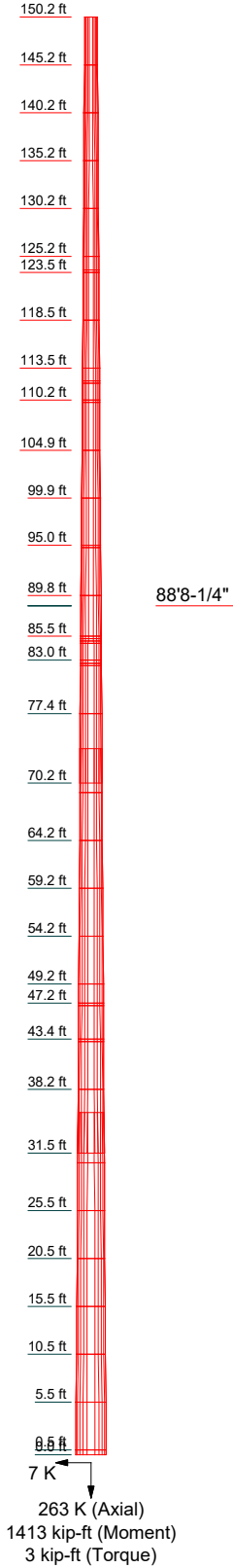


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| Job: <b>93496.032.01 - OLD SAYBROOK, CT (BU# 84128)</b> |                           |             |
| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No: E-5 |

**Guy Tensions and Tower Reactions**  
**TIA-222-H - 125 mph/50 mph 1.000 in Ice Exposure B**

**Maximum Values**  
**Anchor 'C'@42 ft Azimuth 211 deg Elev 0 ft**  
**Plane through centroid of tower**



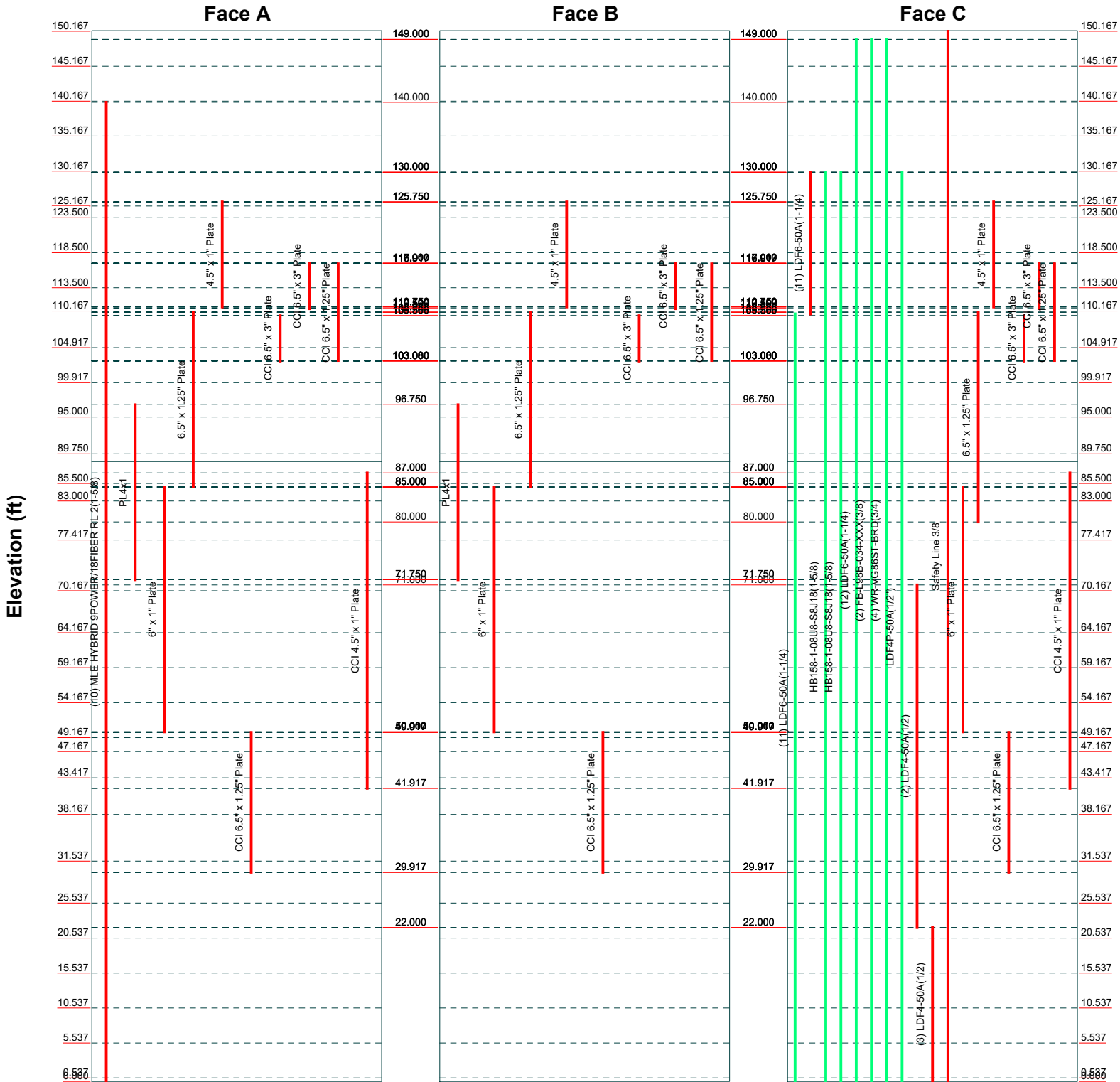
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|   |                           |             |
|---|---------------------------|-------------|
| Job: <b>93496.032.01 - OLD SAYBROOK, CT (BU# 84128)</b> |                           |             |
| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No: E-6 |

# Feed Line Distribution Chart

## 0' - 150'2"

— Round   
 — Flat   
 — App In Face   
 — App Out Face   
 — Truss Leg




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|   |                           |             |
|---|---------------------------|-------------|
| Job: <b>93496.032.01 - OLD SAYBROOK, CT (BU# 84128)</b> |                           |             |
| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No. E-7 |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>1 of 69                |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

## Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in Middlesex County, Connecticut.

Tower base elevation above sea level: 133.000 ft.

Basic wind speed of 125 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 1.000 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

TIA-222-H Annex S.

Tower Rating: 73.6%.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Safety factor used in guy design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .

Maximum demand-capacity ratio is: 1.05.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

|  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>Consider Moments - Legs</li> <li>Consider Moments - Horizontals</li> <li>Consider Moments - Diagonals</li> <li>Use Moment Magnification</li> <li>√ Use Code Stress Ratios</li> <li>√ Use Code Safety Factors - Guys</li> <li>Escalate Ice</li> <li>Always Use Max Kz</li> <li>Use Special Wind Profile</li> <li>Include Bolts In Member Capacity</li> <li>Leg Bolts Are At Top Of Section</li> <li>Secondary Horizontal Braces Leg</li> <li>Use Diamond Inner Bracing (4 Sided)</li> <li>SR Members Have Cut Ends</li> <li>SR Members Are Concentric</li> </ul> | <ul style="list-style-type: none"> <li>Distribute Leg Loads As Uniform</li> <li>Assume Legs Pinned</li> <li>√ Assume Rigid Index Plate</li> <li>√ Use Clear Spans For Wind Area</li> <li>Use Clear Spans For KL/r</li> <li>√ Retension Guys To Initial Tension</li> <li>√ Bypass Mast Stability Checks</li> <li>√ Use Azimuth Dish Coefficients</li> <li>√ Project Wind Area of Appurt.</li> <li>Autocalc Torque Arm Areas</li> <li>Add IBC .6D+W Combination</li> <li>Sort Capacity Reports By Component</li> <li>Triangulate Diamond Inner Bracing</li> <li>Treat Feed Line Bundles As Cylinder</li> <li>Ignore KL/ry For 60 Deg. Angle Legs</li> </ul> | <ul style="list-style-type: none"> <li>Use ASCE 10 X-Brace Ly Rules</li> <li>Calculate Redundant Bracing Forces</li> <li>Ignore Redundant Members in FEA</li> <li>SR Leg Bolts Resist Compression</li> <li>All Leg Panels Have Same Allowable</li> <li>Offset Girt At Foundation</li> <li>√ Consider Feed Line Torque</li> <li>Include Angle Block Shear Check</li> <li>Use TIA-222-H Bracing Resist. Exemption</li> <li>Use TIA-222-H Tension Splice Exemption</li> <li style="background-color: #e0e0e0;">Poles</li> <li>√ Include Shear-Torsion Interaction</li> <li>Always Use Sub-Critical Flow</li> <li>Use Top Mounted Sockets</li> <li>Pole Without Linear Attachments</li> <li>Pole With Shroud Or No Appurtenances</li> <li>Outside and Inside Corner Radii Are Known</li> </ul> |
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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>2 of 69                |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

## Tapered Pole Section Geometry

| Section | Elevation<br>ft | Section<br>Length<br>ft | Splice<br>Length<br>ft | Number<br>of<br>Sides | Top<br>Diameter<br>in | Bottom<br>Diameter<br>in | Wall<br>Thickness<br>in | Bend<br>Radius<br>in | Pole Grade          |
|---------|-----------------|-------------------------|------------------------|-----------------------|-----------------------|--------------------------|-------------------------|----------------------|---------------------|
| L1      | 150.167-145.167 | 5.000                   | 0.000                  | 12                    | 15.530                | 16.310                   | 0.250                   | 1.000                | A572-65<br>(65 ksi) |
| L2      | 145.167-140.167 | 5.000                   | 0.000                  | 12                    | 16.310                | 17.090                   | 0.250                   | 1.000                | A572-65<br>(65 ksi) |
| L3      | 140.167-135.167 | 5.000                   | 0.000                  | 12                    | 17.090                | 17.870                   | 0.250                   | 1.000                | A572-65<br>(65 ksi) |
| L4      | 135.167-130.167 | 5.000                   | 0.000                  | 12                    | 17.870                | 18.650                   | 0.250                   | 1.000                | A572-65<br>(65 ksi) |
| L5      | 130.167-125.167 | 5.000                   | 0.000                  | 12                    | 18.650                | 19.430                   | 0.250                   | 1.000                | A572-65<br>(65 ksi) |
| L6      | 125.167-123.750 | 1.417                   | 0.000                  | 12                    | 19.430                | 19.651                   | 0.250                   | 1.000                | A572-65<br>(65 ksi) |
| L7      | 123.750-123.500 | 0.250                   | 0.000                  | 12                    | 19.651                | 19.690                   | 0.512                   | 2.050                | A572-65<br>(65 ksi) |
| L8      | 123.500-118.500 | 5.000                   | 0.000                  | 12                    | 19.690                | 20.470                   | 0.500                   | 2.000                | A572-65<br>(65 ksi) |
| L9      | 118.500-113.500 | 5.000                   | 0.000                  | 12                    | 20.470                | 21.250                   | 0.487                   | 1.950                | A572-65<br>(65 ksi) |
| L10     | 113.500-112.167 | 1.333                   | 0.000                  | 12                    | 21.250                | 21.458                   | 0.487                   | 1.950                | A572-65<br>(65 ksi) |
| L11     | 112.167-111.917 | 0.250                   | 0.000                  | 12                    | 21.458                | 21.497                   | 0.700                   | 2.800                | A572-65<br>(65 ksi) |
| L12     | 111.917-110.167 | 1.750                   | 0.000                  | 12                    | 21.497                | 21.770                   | 0.700                   | 2.800                | A572-65<br>(65 ksi) |
| L13     | 110.167-109.917 | 0.250                   | 0.000                  | 12                    | 21.770                | 21.813                   | 0.625                   | 2.500                | A572-65<br>(65 ksi) |
| L14     | 109.917-104.917 | 5.000                   | 0.000                  | 12                    | 21.813                | 22.672                   | 0.600                   | 2.400                | A572-65<br>(65 ksi) |
| L15     | 104.917-99.917  | 5.000                   | 0.000                  | 12                    | 22.672                | 23.530                   | 0.588                   | 2.350                | A572-65<br>(65 ksi) |
| L16     | 99.917-95.000   | 4.917                   | 0.000                  | 12                    | 23.530                | 24.375                   | 0.575                   | 2.300                | A572-65<br>(65 ksi) |
| L17     | 95.000-94.750   | 0.250                   | 0.000                  | 12                    | 24.375                | 24.418                   | 0.700                   | 2.800                | A572-65<br>(65 ksi) |
| L18     | 94.750-89.750   | 5.000                   | 0.000                  | 12                    | 24.418                | 25.277                   | 0.688                   | 2.750                | A572-65<br>(65 ksi) |
| L19     | 89.750-85.500   | 4.250                   | 0.000                  | 12                    | 25.277                | 26.007                   | 0.675                   | 2.700                | A572-65<br>(65 ksi) |
| L20     | 85.500-85.250   | 0.250                   | 0.000                  | 12                    | 26.007                | 26.049                   | 0.863                   | 3.450                | A572-65<br>(65 ksi) |
| L21     | 85.250-85.000   | 0.250                   | 0.000                  | 12                    | 26.049                | 26.092                   | 0.863                   | 3.450                | A572-65<br>(65 ksi) |
| L22     | 85.000-84.750   | 0.250                   | 0.000                  | 12                    | 26.092                | 26.135                   | 0.838                   | 3.350                | A572-65<br>(65 ksi) |
| L23     | 84.750-83.000   | 1.750                   | 0.000                  | 12                    | 26.135                | 26.436                   | 0.838                   | 3.350                | A572-65<br>(65 ksi) |
| L24     | 83.000-82.650   | 0.350                   | 0.000                  | 12                    | 26.436                | 26.496                   | 0.713                   | 2.850                | A572-65<br>(65 ksi) |
| L25     | 82.650-82.417   | 0.233                   | 0.000                  | 12                    | 26.496                | 26.536                   | 0.713                   | 2.850                | A572-65<br>(65 ksi) |
| L26     | 82.417-77.417   | 5.000                   | 0.000                  | 12                    | 26.536                | 27.395                   | 0.688                   | 2.750                | A572-65<br>(65 ksi) |
| L27     | 77.417-70.167   | 7.250                   | 3.580                  | 12                    | 27.395                | 28.640                   | 0.688                   | 2.750                | A572-65<br>(65 ksi) |
| L28     | 70.167-69.167   | 4.580                   | 0.000                  | 12                    | 27.400                | 28.079                   | 0.725                   | 2.900                | A572-65<br>(65 ksi) |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section | Elevation<br>ft | Section<br>Length<br>ft | Splice<br>Length<br>ft | Number<br>of<br>Sides | Top<br>Diameter<br>in | Bottom<br>Diameter<br>in | Wall<br>Thickness<br>in | Bend<br>Radius<br>in | Pole Grade          |
|---------|-----------------|-------------------------|------------------------|-----------------------|-----------------------|--------------------------|-------------------------|----------------------|---------------------|
| L29     | 69.167-64.167   | 5.000                   | 0.000                  | 12                    | 28.079                | 28.821                   | 0.713                   | 2.850                | A572-65<br>(65 ksi) |
| L30     | 64.167-59.167   | 5.000                   | 0.000                  | 12                    | 28.821                | 29.562                   | 0.725                   | 2.900                | A572-65<br>(65 ksi) |
| L31     | 59.167-54.167   | 5.000                   | 0.000                  | 12                    | 29.562                | 30.304                   | 0.713                   | 2.850                | A572-65<br>(65 ksi) |
| L32     | 54.167-49.167   | 5.000                   | 0.000                  | 12                    | 30.304                | 31.045                   | 0.700                   | 2.800                | A572-65<br>(65 ksi) |
| L33     | 49.167-47.167   | 2.000                   | 0.000                  | 12                    | 31.045                | 31.342                   | 0.700                   | 2.800                | A572-65<br>(65 ksi) |
| L34     | 47.167-46.917   | 0.250                   | 0.000                  | 12                    | 31.342                | 31.379                   | 0.787                   | 3.150                | A572-65<br>(65 ksi) |
| L35     | 46.917-43.417   | 3.500                   | 0.000                  | 12                    | 31.379                | 31.898                   | 0.775                   | 3.100                | A572-65<br>(65 ksi) |
| L36     | 43.417-43.167   | 0.250                   | 0.000                  | 12                    | 31.898                | 31.935                   | 0.650                   | 2.600                | A572-65<br>(65 ksi) |
| L37     | 43.167-38.167   | 5.000                   | 0.000                  | 12                    | 31.935                | 32.677                   | 0.650                   | 2.600                | A572-65<br>(65 ksi) |
| L38     | 38.167-31.537   | 6.630                   | 4.210                  | 12                    | 32.677                | 33.660                   | 0.650                   | 2.600                | A572-65<br>(65 ksi) |
| L39     | 31.537-30.537   | 5.210                   | 0.000                  | 12                    | 32.286                | 33.161                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L40     | 30.537-25.537   | 5.000                   | 0.000                  | 12                    | 33.161                | 34.001                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L41     | 25.537-20.537   | 5.000                   | 0.000                  | 12                    | 34.001                | 34.840                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L42     | 20.537-15.537   | 5.000                   | 0.000                  | 12                    | 34.840                | 35.680                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L43     | 15.537-10.537   | 5.000                   | 0.000                  | 12                    | 35.680                | 36.520                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L44     | 10.537-5.537    | 5.000                   | 0.000                  | 12                    | 36.520                | 37.360                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L45     | 5.537-0.537     | 5.000                   | 0.000                  | 12                    | 37.360                | 38.200                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |
| L46     | 0.537-0.000     | 0.537                   |                        | 12                    | 38.200                | 38.290                   | 0.438                   | 1.750                | A572-65<br>(65 ksi) |

### Tapered Pole Properties

| Section | Tip Dia.<br>in | Area<br>in <sup>2</sup> | I<br>in <sup>4</sup> | r<br>in | C<br>in | I/C<br>in <sup>3</sup> | J<br>in <sup>4</sup> | It/Q<br>in <sup>2</sup> | w<br>in | w/t    |
|---------|----------------|-------------------------|----------------------|---------|---------|------------------------|----------------------|-------------------------|---------|--------|
| L1      | 15.990         | 12.300                  | 366.566              | 5.470   | 8.045   | 45.567                 | 742.762              | 6.054                   | 3.492   | 13.968 |
|         | 16.797         | 12.928                  | 425.616              | 5.749   | 8.449   | 50.377                 | 862.414              | 6.363                   | 3.701   | 14.804 |
| L2      | 16.797         | 12.928                  | 425.616              | 5.749   | 8.449   | 50.377                 | 862.414              | 6.363                   | 3.701   | 14.804 |
|         | 17.605         | 13.556                  | 490.691              | 6.029   | 8.853   | 55.429                 | 994.273              | 6.672                   | 3.910   | 15.64  |
| L3      | 17.605         | 13.556                  | 490.691              | 6.029   | 8.853   | 55.429                 | 994.273              | 6.672                   | 3.910   | 15.64  |
|         | 18.412         | 14.184                  | 562.082              | 6.308   | 9.257   | 60.722                 | 1138.930             | 6.981                   | 4.119   | 16.477 |
| L4      | 18.412         | 14.184                  | 562.082              | 6.308   | 9.257   | 60.722                 | 1138.930             | 6.981                   | 4.119   | 16.477 |
|         | 19.220         | 14.812                  | 640.082              | 6.587   | 9.661   | 66.256                 | 1296.979             | 7.290                   | 4.328   | 17.313 |
| L5      | 19.220         | 14.812                  | 640.082              | 6.587   | 9.661   | 66.256                 | 1296.979             | 7.290                   | 4.328   | 17.313 |
|         | 20.027         | 15.440                  | 724.983              | 6.866   | 10.065  | 72.032                 | 1469.011             | 7.599                   | 4.537   | 18.149 |
| L6      | 20.027         | 15.440                  | 724.983              | 6.866   | 10.065  | 72.032                 | 1469.011             | 7.599                   | 4.537   | 18.149 |
|         | 20.256         | 15.618                  | 750.339              | 6.946   | 10.179  | 73.713                 | 1520.391             | 7.687                   | 4.596   | 18.386 |
| L7      | 20.163         | 31.583                  | 1476.600             | 6.852   | 10.179  | 145.060                | 2991.992             | 15.544                  | 3.893   | 7.596  |
|         | 20.204         | 31.648                  | 1485.646             | 6.866   | 10.199  | 145.659                | 3010.321             | 15.576                  | 3.903   | 7.616  |
| L8      | 20.208         | 30.896                  | 1452.246             | 6.870   | 10.199  | 142.385                | 2942.645             | 15.206                  | 3.937   | 7.874  |

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|  | <b>Project</b>                               | <b>Date</b>        |
|  |  | 18:39:54 09/08/21  |
|  | <b>Client</b>                                | <b>Designed by</b> |
|  | Crown Castle                                 | Nithish Acharya    |

| Section | Tip Dia.<br>in | Area<br>in <sup>2</sup> | I<br>in <sup>4</sup> | r<br>in | C<br>in | I/C<br>in <sup>3</sup> | J<br>in <sup>4</sup> | I/Q<br>in <sup>2</sup> | w<br>in | w/t    |
|---------|----------------|-------------------------|----------------------|---------|---------|------------------------|----------------------|------------------------|---------|--------|
| L9      | 21.016         | 32.152                  | 1636.626             | 7.149   | 10.603  | 154.348                | 3316.248             | 15.824                 | 4.146   | 8.292  |
|         | 21.020         | 31.368                  | 1598.709             | 7.154   | 10.603  | 150.772                | 3239.417             | 15.438                 | 4.179   | 8.573  |
|         | 21.828         | 32.592                  | 1793.324             | 7.433   | 11.008  | 162.918                | 3633.760             | 16.041                 | 4.389   | 9.002  |
| L10     | 21.828         | 32.592                  | 1793.324             | 7.433   | 11.008  | 162.918                | 3633.760             | 16.041                 | 4.389   | 9.002  |
|         | 22.043         | 32.918                  | 1847.748             | 7.507   | 11.115  | 166.236                | 3744.039             | 16.201                 | 4.444   | 9.116  |
| L11     | 21.968         | 46.789                  | 2573.335             | 7.431   | 11.115  | 231.514                | 5214.275             | 23.028                 | 3.875   | 5.535  |
|         | 22.008         | 46.876                  | 2587.867             | 7.445   | 11.135  | 232.399                | 5243.720             | 23.071                 | 3.885   | 5.55   |
| L12     | 22.008         | 46.876                  | 2587.867             | 7.445   | 11.135  | 232.399                | 5243.720             | 23.071                 | 3.885   | 5.55   |
|         | 22.291         | 47.492                  | 2691.123             | 7.543   | 11.277  | 238.641                | 5452.944             | 23.374                 | 3.958   | 5.655  |
| L13     | 22.317         | 42.554                  | 2428.538             | 7.570   | 11.277  | 215.356                | 4920.876             | 20.944                 | 4.159   | 6.655  |
|         | 22.362         | 42.641                  | 2443.362             | 7.585   | 11.299  | 216.244                | 4950.915             | 20.986                 | 4.171   | 6.673  |
| L14     | 22.371         | 40.983                  | 2353.941             | 7.594   | 11.299  | 208.330                | 4769.722             | 20.171                 | 4.238   | 7.063  |
|         | 23.260         | 42.643                  | 2651.549             | 7.902   | 11.744  | 225.780                | 5372.758             | 20.987                 | 4.468   | 7.447  |
| L15     | 23.264         | 41.778                  | 2600.722             | 7.906   | 11.744  | 221.452                | 5269.768             | 20.562                 | 4.502   | 7.662  |
|         | 24.153         | 43.402                  | 2916.062             | 8.214   | 12.189  | 239.242                | 5908.732             | 21.361                 | 4.732   | 8.054  |
| L16     | 24.158         | 42.502                  | 2858.686             | 8.218   | 12.189  | 234.534                | 5792.472             | 20.918                 | 4.765   | 8.287  |
|         | 25.032         | 44.066                  | 3185.934             | 8.520   | 12.626  | 252.327                | 6455.567             | 21.688                 | 4.991   | 8.681  |
| L17     | 24.988         | 53.363                  | 3817.738             | 8.476   | 12.626  | 302.366                | 7735.772             | 26.264                 | 4.656   | 6.652  |
|         | 25.032         | 53.460                  | 3838.547             | 8.491   | 12.648  | 303.480                | 7777.938             | 26.311                 | 4.668   | 6.669  |
| L18     | 25.037         | 52.533                  | 3775.966             | 8.495   | 12.648  | 298.532                | 7651.130             | 25.855                 | 4.701   | 6.839  |
|         | 25.926         | 54.434                  | 4200.911             | 8.803   | 13.093  | 320.845                | 8512.184             | 26.791                 | 4.932   | 7.173  |
| L19     | 25.930         | 53.472                  | 4130.824             | 8.807   | 13.093  | 315.492                | 8370.170             | 26.317                 | 4.965   | 7.356  |
|         | 26.686         | 55.058                  | 4509.530             | 9.069   | 13.471  | 334.748                | 9137.530             | 27.098                 | 5.161   | 7.646  |
| L20     | 26.620         | 69.831                  | 5635.170             | 9.002   | 13.471  | 418.306                | 11418.382            | 34.369                 | 4.658   | 5.401  |
|         | 26.664         | 69.951                  | 5664.088             | 9.017   | 13.494  | 419.760                | 11476.978            | 34.428                 | 4.670   | 5.414  |
| L21     | 26.664         | 69.951                  | 5664.088             | 9.017   | 13.494  | 419.760                | 11476.978            | 34.428                 | 4.670   | 5.414  |
|         | 26.709         | 70.070                  | 5693.105             | 9.032   | 13.516  | 421.216                | 11535.774            | 34.486                 | 4.681   | 5.428  |
| L22     | 26.717         | 68.106                  | 5544.537             | 9.041   | 13.516  | 410.224                | 11234.735            | 33.520                 | 4.748   | 5.67   |
|         | 26.762         | 68.222                  | 5572.865             | 9.057   | 13.538  | 411.642                | 11292.135            | 33.577                 | 4.760   | 5.683  |
| L23     | 26.762         | 68.222                  | 5572.865             | 9.057   | 13.538  | 411.642                | 11292.135            | 33.577                 | 4.760   | 5.683  |
|         | 27.073         | 69.033                  | 5773.867             | 9.164   | 13.694  | 421.641                | 11699.419            | 33.976                 | 4.840   | 5.779  |
| L24     | 27.117         | 59.016                  | 4984.406             | 9.209   | 13.694  | 363.990                | 10099.759            | 29.046                 | 5.175   | 7.264  |
|         | 27.179         | 59.154                  | 5019.432             | 9.231   | 13.725  | 365.716                | 10170.730            | 29.114                 | 5.191   | 7.286  |
| L25     | 27.179         | 59.154                  | 5019.432             | 9.231   | 13.725  | 365.716                | 10170.730            | 29.114                 | 5.191   | 7.286  |
|         | 27.221         | 59.246                  | 5042.870             | 9.245   | 13.746  | 366.869                | 10218.221            | 29.159                 | 5.202   | 7.301  |
| L26     | 27.230         | 57.222                  | 4880.073             | 9.254   | 13.746  | 355.025                | 9888.351             | 28.163                 | 5.269   | 7.664  |
|         | 28.119         | 59.123                  | 5382.792             | 9.561   | 14.191  | 379.323                | 10906.996            | 29.099                 | 5.499   | 7.999  |
| L27     | 28.119         | 59.123                  | 5382.792             | 9.561   | 14.191  | 379.323                | 10906.996            | 29.099                 | 5.499   | 7.999  |
|         | 29.408         | 61.880                  | 6171.298             | 10.007  | 14.836  | 415.981                | 12504.722            | 30.455                 | 5.833   | 8.484  |
| L28     | 28.661         | 62.273                  | 5655.874             | 9.550   | 14.193  | 398.490                | 11460.334            | 30.649                 | 5.400   | 7.449  |
|         | 28.814         | 63.859                  | 6099.014             | 9.793   | 14.545  | 419.317                | 12358.255            | 31.429                 | 5.582   | 7.7    |
| L29     | 28.819         | 62.786                  | 6002.079             | 9.797   | 14.545  | 412.653                | 12161.839            | 30.902                 | 5.616   | 7.882  |
|         | 29.586         | 64.488                  | 6503.303             | 10.063  | 14.929  | 435.609                | 13177.455            | 31.739                 | 5.814   | 8.161  |
| L30     | 29.582         | 65.590                  | 6608.571             | 10.058  | 14.929  | 442.660                | 13390.758            | 32.281                 | 5.781   | 7.974  |
|         | 30.349         | 67.321                  | 7145.749             | 10.324  | 15.313  | 466.636                | 14479.224            | 33.133                 | 5.980   | 8.248  |
| L31     | 30.354         | 66.189                  | 7031.682             | 10.328  | 15.313  | 459.187                | 14248.094            | 32.576                 | 6.013   | 8.44   |
|         | 31.122         | 67.890                  | 7587.933             | 10.594  | 15.697  | 483.387                | 15375.209            | 33.413                 | 6.212   | 8.719  |
| L32     | 31.126         | 66.727                  | 7464.262             | 10.598  | 15.697  | 475.509                | 15124.619            | 32.841                 | 6.245   | 8.922  |
|         | 31.894         | 68.399                  | 8039.320             | 10.864  | 16.082  | 499.910                | 16289.842            | 33.664                 | 6.444   | 9.206  |
| L33     | 31.894         | 68.399                  | 8039.320             | 10.864  | 16.082  | 499.910                | 16289.842            | 33.664                 | 6.444   | 9.206  |
|         | 32.201         | 69.067                  | 8277.404             | 10.970  | 16.235  | 509.843                | 16772.266            | 33.993                 | 6.524   | 9.32   |
| L34     | 32.170         | 77.479                  | 9232.534             | 10.939  | 16.235  | 568.674                | 18707.617            | 38.133                 | 6.289   | 7.986  |
|         | 32.208         | 77.573                  | 9266.184             | 10.952  | 16.254  | 570.072                | 18775.801            | 38.179                 | 6.299   | 7.999  |
| L35     | 32.213         | 76.373                  | 9130.285             | 10.956  | 16.254  | 561.712                | 18500.432            | 37.588                 | 6.333   | 8.171  |
|         | 32.750         | 77.668                  | 9602.770             | 11.142  | 16.523  | 581.166                | 19457.815            | 38.226                 | 6.472   | 8.351  |
| L36     | 32.794         | 65.402                  | 8151.367             | 11.187  | 16.523  | 493.326                | 16516.880            | 32.189                 | 6.807   | 10.472 |
|         | 32.833         | 65.480                  | 8180.416             | 11.200  | 16.542  | 494.510                | 16575.741            | 32.227                 | 6.817   | 10.487 |
| L37     | 32.833         | 65.480                  | 8180.416             | 11.200  | 16.542  | 494.510                | 16575.741            | 32.227                 | 6.817   | 10.487 |
|         | 33.600         | 67.032                  | 8775.981             | 11.466  | 16.927  | 518.473                | 17782.517            | 32.991                 | 7.015   | 10.793 |
| L38     | 33.600         | 67.032                  | 8775.981             | 11.466  | 16.927  | 518.473                | 17782.517            | 32.991                 | 7.015   | 10.793 |
|         | 34.618         | 69.090                  | 9609.300             | 11.818  | 17.436  | 551.122                | 19471.047            | 34.004                 | 7.279   | 11.198 |
| L39     | 34.002         | 44.866                  | 5808.611             | 11.402  | 16.724  | 347.323                | 11769.821            | 22.082                 | 7.480   | 17.097 |









|  |  |                                       |
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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>8 of 69                |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Guy Elevation | Cable Weight | Cable Weight | Cable Weight | Cable Weight | Tower Intercept | Tower Intercept | Tower Intercept | Tower Intercept |
|---------------|--------------|--------------|--------------|--------------|-----------------|-----------------|-----------------|-----------------|
| ft            | A            | B            | C            | D            | A               | B               | C               | D               |
|               | K            | K            | K            | K            | ft              | ft              | ft              | ft              |
| 88.6875       | 0.503        | 0.388        | 0.387        |              | 0.584           | 0.678           | 0.675           |                 |
|               |              |              |              |              | 1.3 sec/pulse   | 1.4 sec/pulse   | 1.4 sec/pulse   |                 |

**Guy Data (cont'd)**

| Guy Elevation | Calc K        | Calc K      | Torque Arm     |                | Pull Off       |                | Diagonal       |                |
|---------------|---------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               |               |             | K <sub>x</sub> | K <sub>y</sub> | K <sub>x</sub> | K <sub>y</sub> | K <sub>x</sub> | K <sub>y</sub> |
| ft            | Single Angles | Solid Rouds |                |                |                |                |                |                |
| 88.6875       | No            | No          |                |                | 1              | 1              | 1              | 1              |

**Guy Data (cont'd)**

| Guy Elevation | Torque-Arm |        |           |      | Pull Off  |        |           |      | Diagonal  |        |           |      |
|---------------|------------|--------|-----------|------|-----------|--------|-----------|------|-----------|--------|-----------|------|
|               | Bolt Size  | Number | Net Width | U    | Bolt Size | Number | Net Width | U    | Bolt Size | Number | Net Width | U    |
| ft            | in         |        | Deduct    |      | in        |        | Deduct    |      | in        |        | Deduct    |      |
|               |            |        | in        |      |           |        | in        |      |           |        | in        |      |
| 88.6875       | 0.625      | 0      | 0.000     | 0.75 | 0.625     | 0      | 0.000     | 0.75 | 0.625     | 0      | 0.000     | 0.75 |
|               | A325N      |        |           |      | A325N     |        |           |      | A325N     |        |           |      |

**Guy Pressures**

| Guy Elevation | Guy Location | z      | q <sub>z</sub> | q <sub>z</sub> | Ice Thickness |
|---------------|--------------|--------|----------------|----------------|---------------|
| ft            |              | ft     | ksf            | ksf            | in            |
| 88.6875       | A            | 44.344 | 0.028          | 0.005          | 0.875         |
|               | B            | 44.344 | 0.028          | 0.005          | 0.875         |
|               | C            | 44.344 | 0.028          | 0.005          | 0.875         |

**Feed Line/Linear Appurtenances - Entered As Round Or Flat**

| Description                             | Sector | Exclude From Torque Calculation | Component Type    | Placement         | Total Number | Number Per Row | Start/End Position | Width or Diameter | Perimeter | Weight |
|---|--------|---------------------------------|-------------------|-------------------|--------------|----------------|--------------------|-------------------|-----------|--------|
|   |        |                                 |                   | ft                |              |                |                    | in                | in        | klf    |
| LDF6-50A(1-1/4)                         | C      | No                              | Surface Ar (CaAa) | 130.000 - 109.750 | 11           | 6              | -0.140 -0.070      | 1.550             |           | 0.001  |
| * MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | A      | No                              | Surface Ar (CaAa) | 140.000 - 0.000   | 10           | 5              | -0.350 -0.050      | 1.625             |           | 0.001  |
| LDF4-50A(1/2)                           | C      | No                              | Surface Ar (CaAa) | 71.000 - 22.000   | 2            | 2              | -0.050 0.000       | 0.630             |           | 0.000  |
| LDF4-50A(1/2)                           | C      | No                              | Surface Ar        | 22.000 -          | 3            | 3              | -0.050             | 0.630             |           | 0.000  |

|  |                |  |  |  |                    |  |                   |  |
|--|----------------|--|--|--|--------------------|--|-------------------|--|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>     |  | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) |  | <b>Page</b>        |  | 9 of 69           |  |
|  | <b>Project</b> |  |  |  | <b>Date</b>        |  | 18:39:54 09/08/21 |  |
|  | <b>Client</b>  |  | Crown Castle                                 |  | <b>Designed by</b> |  | Nithish Acharya   |  |

| Description            | Sector | Exclude From Torque Calculation | Component Type    | Placement ft      | Total Number | Number Per Row | Start/End Position | Width or Diameter in | Perimeter in | Weight klf |
|------------------------|--------|---------------------------------|-------------------|-------------------|--------------|----------------|--------------------|----------------------|--------------|------------|
| *                      |        |                                 | (CaAa)            | 0.000             |              |                | 0.000              |                      |              |            |
| Safety Line 3/8        | C      | No                              | Surface Ar (CaAa) | 150.167 - 0.000   | 1            | 1              | -0.210 -0.200      | 0.375                |              | 0.000      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| **2011 Mod**           |        |                                 |                   |                   |              |                |                    |                      |              |            |
| PL4x1                  | A      | No                              | Surface Af (CaAa) | 96.750 - 71.750   | 1            | 1              | 0.100 0.150        | 4.000                | 10.000       | 0.000      |
| PL4x1                  | B      | No                              | Surface Af (CaAa) | 96.750 - 71.750   | 1            | 1              | 0.100 0.150        | 4.000                | 10.000       | 0.000      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| **2014 Mod**           |        |                                 |                   |                   |              |                |                    |                      |              |            |
| 6" x 1" Plate          | A      | No                              | Surface Af (CaAa) | 85.000 - 50.000   | 1            | 1              | 0.000 0.100        | 6.000                | 14.000       | 0.000      |
| 6" x 1" Plate          | B      | No                              | Surface Af (CaAa) | 85.000 - 50.000   | 1            | 1              | 0.000 0.100        | 6.000                | 14.000       | 0.000      |
| 6" x 1" Plate          | C      | No                              | Surface Af (CaAa) | 85.000 - 50.000   | 1            | 1              | 0.000 0.100        | 6.000                | 14.000       | 0.000      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| 6.5" x 1.25" Plate     | A      | No                              | Surface Af (CaAa) | 110.000 - 85.000  | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.000      |
| 6.5" x 1.25" Plate     | B      | No                              | Surface Af (CaAa) | 110.000 - 85.000  | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.000      |
| 6.5" x 1.25" Plate     | C      | No                              | Surface Af (CaAa) | 110.000 - 80.000  | 1            | 1              | 0.100 0.150        | 6.500                | 15.500       | 0.000      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| 4.5" x 1" Plate        | A      | No                              | Surface Af (CaAa) | 125.750 - 110.750 | 1            | 1              | 0.000 0.100        | 4.500                | 11.000       | 0.000      |
| 4.5" x 1" Plate        | B      | No                              | Surface Af (CaAa) | 125.750 - 110.750 | 1            | 1              | 0.000 0.100        | 4.500                | 11.000       | 0.000      |
| 4.5" x 1" Plate        | C      | No                              | Surface Af (CaAa) | 125.750 - 110.750 | 1            | 1              | 0.000 0.100        | 4.500                | 11.000       | 0.000      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| **2016 Mod**           |        |                                 |                   |                   |              |                |                    |                      |              |            |
| CCI 6.5" x 1.25" Plate | A      | No                              | Surface Af (CaAa) | 49.917 - 29.917   | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.000      |
| CCI 6.5" x 1.25" Plate | B      | No                              | Surface Af (CaAa) | 49.917 - 29.917   | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.000      |
| CCI 6.5" x 1.25" Plate | C      | No                              | Surface Af (CaAa) | 49.917 - 29.917   | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.000      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| CCI 6.5" x 3" Plate    | A      | No                              | Surface Af (CaAa) | 109.500 - 103.000 | 1            | 1              | 0.000 0.100        | 6.500                | 19.000       | 0.061      |
| CCI 6.5" x 3" Plate    | B      | No                              | Surface Af (CaAa) | 109.500 - 103.000 | 1            | 1              | 0.000 0.100        | 6.500                | 19.000       | 0.061      |
| CCI 6.5" x 3" Plate    | C      | No                              | Surface Af (CaAa) | 109.500 - 103.000 | 1            | 1              | 0.000 0.100        | 6.500                | 19.000       | 0.061      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| CCI 6.5" x 3" Plate    | A      | No                              | Surface Af (CaAa) | 117.000 - 110.500 | 1            | 1              | 0.000 0.100        | 6.500                | 19.000       | 0.061      |
| CCI 6.5" x 3" Plate    | B      | No                              | Surface Af (CaAa) | 117.000 - 110.500 | 1            | 1              | 0.000 0.100        | 6.500                | 19.000       | 0.061      |
| CCI 6.5" x 3" Plate    | C      | No                              | Surface Af (CaAa) | 117.000 - 110.500 | 1            | 1              | 0.000 0.100        | 6.500                | 19.000       | 0.061      |
| *                      |        |                                 |                   |                   |              |                |                    |                      |              |            |
| CCI 6.5" x 1.25" Plate | A      | No                              | Surface Af (CaAa) | 116.917 - 103.080 | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.028      |
| CCI 6.5" x 1.25" Plate | B      | No                              | Surface Af (CaAa) | 116.917 - 103.080 | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.028      |
| CCI 6.5" x 1.25" Plate | C      | No                              | Surface Af (CaAa) | 116.917 - 103.080 | 1            | 1              | 0.000 0.100        | 6.500                | 15.500       | 0.028      |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Description         | Sector | Exclude From Torque Calculation | Component Type    | Placement ft    | Total Number | Number Per Row | Start/End Position | Width or Diameter in | Perimeter in | Weight klf |
|---------------------|--------|---------------------------------|-------------------|-----------------|--------------|----------------|--------------------|----------------------|--------------|------------|
| *                   |        |                                 | (CaAa)            | 103.080         |              |                | 0.100              |                      |              |            |
| CCI 4.5" x 1" Plate | A      | No                              | Surface Af (CaAa) | 87.000 - 41.917 | 1            | 1              | 0.300<br>0.350     | 4.500                | 11.000       | 0.000      |
| CCI 4.5" x 1" Plate | C      | No                              | Surface Af (CaAa) | 87.000 - 41.917 | 1            | 1              | 0.300<br>0.350     | 4.500                | 11.000       | 0.000      |
| *                   |        |                                 |                   |                 |              |                |                    |                      |              |            |
| *                   |        |                                 |                   |                 |              |                |                    |                      |              |            |

### Feed Line/Linear Appurtenances - Entered As Area

| Description                | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft    | Total Number |                              | C <sub>AA</sub> ft <sup>2</sup> /ft | Weight klf              |
|----------------------------|-------------|--------------|---------------------------------|----------------|-----------------|--------------|------------------------------|-------------------------------------|-------------------------|
| LDF6-50A(1-1/4)            | C           | No           | No                              | Inside Pole    | 109.750 - 0.000 | 11           | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.001<br>0.001<br>0.001 |
| HB158-1-08U8-S8J 18(1-5/8) | C           | No           | No                              | Inside Pole    | 130.000 - 0.000 | 1            | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.001<br>0.001<br>0.001 |
| HB158-1-08U8-S8J 18(1-5/8) | C           | No           | No                              | Inside Pole    | 130.000 - 0.000 | 1            | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.001<br>0.001<br>0.001 |
| *                          |             |              |                                 |                |                 |              |                              |                                     |                         |
| LDF6-50A(1-1/4)            | C           | No           | No                              | Inside Pole    | 149.000 - 0.000 | 12           | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.001<br>0.001<br>0.001 |
| FB-L98B-034-XXX(3/8)       | C           | No           | No                              | Inside Pole    | 149.000 - 0.000 | 2            | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.000<br>0.000<br>0.000 |
| WR-VG86ST-BRD(3/4)         | C           | No           | No                              | Inside Pole    | 149.000 - 0.000 | 4            | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.001<br>0.001<br>0.001 |
| *                          |             |              |                                 |                |                 |              |                              |                                     |                         |
| LDF4P-50A(1/2")            | C           | No           | No                              | Inside Pole    | 130.000 - 0.000 | 1            | No Ice<br>1/2" Ice<br>1" Ice | 0.000<br>0.000<br>0.000             | 0.000<br>0.000<br>0.000 |
| *                          |             |              |                                 |                |                 |              |                              |                                     |                         |
| *                          |             |              |                                 |                |                 |              |                              |                                     |                         |
| *                          |             |              |                                 |                |                 |              |                              |                                     |                         |

### Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation ft | Face | A <sub>R</sub> ft <sup>2</sup> | A <sub>F</sub> ft <sup>2</sup> | C <sub>AA</sub> In Face ft <sup>2</sup> | C <sub>AA</sub> Out Face ft <sup>2</sup> | Weight K |
|---------------|--------------------|------|--------------------------------|--------------------------------|---|--|----------|
| L1            | 150.167-145.167    | A    | 0.000                          | 0.000                          | 0.000                                   | 0.000                                    | 0.000    |
|               |                    | B    | 0.000                          | 0.000                          | 0.000                                   | 0.000                                    | 0.000    |
|               |                    | C    | 0.000                          | 0.000                          | 0.188                                   | 0.000                                    | 0.038    |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Tower Elevation<br>ft | Face | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>AA</sub><br>In Face<br>ft <sup>2</sup> | C <sub>AA</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|------|-----------------------------------|-----------------------------------|---|--|-------------|
| L2            | 145.167-140.167       | A    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.188   | 0.000  | 0.049       |
| L3            | 140.167-135.167       | A    | 0.000                             | 0.000                             | 3.927   | 0.000  | 0.052       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.188   | 0.000  | 0.049       |
| L4            | 135.167-130.167       | A    | 0.000                             | 0.000                             | 4.063   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.188   | 0.000  | 0.049       |
| L5            | 130.167-125.167       | A    | 0.000                             | 0.000                             | 4.500   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.437   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 5.119   | 0.000  | 0.094       |
| L6            | 125.167-123.750       | A    | 0.000                             | 0.000                             | 2.214   | 0.000  | 0.015       |
|               |                       | B    | 0.000                             | 0.000                             | 1.063   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 2.434   | 0.000  | 0.027       |
| L7            | 123.750-123.500       | A    | 0.000                             | 0.000                             | 0.391   | 0.000  | 0.003       |
|               |                       | B    | 0.000                             | 0.000                             | 0.188   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.429   | 0.000  | 0.005       |
| L8            | 123.500-118.500       | A    | 0.000                             | 0.000                             | 7.813   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 3.750   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 8.588   | 0.000  | 0.096       |
| L9            | 118.500-113.500       | A    | 0.000                             | 0.000                             | 14.414  | 0.000  | 0.362       |
|               |                       | B    | 0.000                             | 0.000                             | 10.352  | 0.000  | 0.309       |
|               |                       | C    | 0.000                             | 0.000                             | 15.189  | 0.000  | 0.405       |
| L10           | 113.500-112.167       | A    | 0.000                             | 0.000                             | 4.632   | 0.000  | 0.133       |
|               |                       | B    | 0.000                             | 0.000                             | 3.548   | 0.000  | 0.119       |
|               |                       | C    | 0.000                             | 0.000                             | 4.838   | 0.000  | 0.144       |
| L11           | 112.167-111.917       | A    | 0.000                             | 0.000                             | 0.869   | 0.000  | 0.025       |
|               |                       | B    | 0.000                             | 0.000                             | 0.666   | 0.000  | 0.022       |
|               |                       | C    | 0.000                             | 0.000                             | 0.907   | 0.000  | 0.027       |
| L12           | 111.917-110.167       | A    | 0.000                             | 0.000                             | 5.367   | 0.000  | 0.154       |
|               |                       | B    | 0.000                             | 0.000                             | 3.945   | 0.000  | 0.135       |
|               |                       | C    | 0.000                             | 0.000                             | 5.638   | 0.000  | 0.169       |
| L13           | 110.167-109.917       | A    | 0.000                             | 0.000                             | 0.564   | 0.000  | 0.010       |
|               |                       | B    | 0.000                             | 0.000                             | 0.361   | 0.000  | 0.007       |
|               |                       | C    | 0.000                             | 0.000                             | 0.603   | 0.000  | 0.012       |
| L14           | 109.917-104.917       | A    | 0.000                             | 0.000                             | 18.694  | 0.000  | 0.473       |
|               |                       | B    | 0.000                             | 0.000                             | 14.631  | 0.000  | 0.419       |
|               |                       | C    | 0.000                             | 0.000                             | 14.974  | 0.000  | 0.515       |
| L15           | 104.917-99.917        | A    | 0.000                             | 0.000                             | 13.058  | 0.000  | 0.222       |
|               |                       | B    | 0.000                             | 0.000                             | 8.995   | 0.000  | 0.168       |
|               |                       | C    | 0.000                             | 0.000                             | 9.183   | 0.000  | 0.264       |
| L16           | 99.917-95.000         | A    | 0.000                             | 0.000                             | 10.488  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 6.493   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 5.511   | 0.000  | 0.094       |
| L17           | 95.000-94.750         | A    | 0.000                             | 0.000                             | 0.641   | 0.000  | 0.003       |
|               |                       | B    | 0.000                             | 0.000                             | 0.438   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.280   | 0.000  | 0.005       |
| L18           | 94.750-89.750         | A    | 0.000                             | 0.000                             | 12.813  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 8.750   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 5.604   | 0.000  | 0.096       |
| L19           | 89.750-85.500         | A    | 0.000                             | 0.000                             | 12.016  | 0.000  | 0.045       |
|               |                       | B    | 0.000                             | 0.000                             | 7.438   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 5.889   | 0.000  | 0.082       |
| L20           | 85.500-85.250         | A    | 0.000                             | 0.000                             | 0.828   | 0.000  | 0.003       |
|               |                       | B    | 0.000                             | 0.000                             | 0.438   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.468   | 0.000  | 0.005       |
| L21           | 85.250-85.000         | A    | 0.000                             | 0.000                             | 0.828   | 0.000  | 0.003       |
|               |                       | B    | 0.000                             | 0.000                             | 0.438   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.468   | 0.000  | 0.005       |
| L22           | 85.000-84.750         | A    | 0.000                             | 0.000                             | 0.807   | 0.000  | 0.003       |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>12 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Tower Elevation<br>ft | Face | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>AA</sub><br>In Face<br>ft <sup>2</sup> | C <sub>AA</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|------|-----------------------------------|-----------------------------------|---|--|-------------|
|               |                       | B    | 0.000                             | 0.000                             | 0.417   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.718   | 0.000  | 0.005       |
| L23           | 84.750-83.000         | A    | 0.000                             | 0.000                             | 5.651   | 0.000  | 0.019       |
|               |                       | B    | 0.000                             | 0.000                             | 2.917   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 5.024   | 0.000  | 0.034       |
| L24           | 83.000-82.650         | A    | 0.000                             | 0.000                             | 1.130   | 0.000  | 0.004       |
|               |                       | B    | 0.000                             | 0.000                             | 0.583   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 1.005   | 0.000  | 0.007       |
| L25           | 82.650-82.417         | A    | 0.000                             | 0.000                             | 0.753   | 0.000  | 0.002       |
|               |                       | B    | 0.000                             | 0.000                             | 0.389   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.670   | 0.000  | 0.004       |
| L26           | 82.417-77.417         | A    | 0.000                             | 0.000                             | 16.146  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 8.333   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 11.556  | 0.000  | 0.096       |
| L27           | 77.417-70.167         | A    | 0.000                             | 0.000                             | 22.355  | 0.000  | 0.078       |
|               |                       | B    | 0.000                             | 0.000                             | 11.028  | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 13.064  | 0.000  | 0.140       |
| L28           | 70.167-69.167         | A    | 0.000                             | 0.000                             | 2.563   | 0.000  | 0.011       |
|               |                       | B    | 0.000                             | 0.000                             | 1.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 1.914   | 0.000  | 0.020       |
| L29           | 69.167-64.167         | A    | 0.000                             | 0.000                             | 12.813  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 5.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 9.568   | 0.000  | 0.098       |
| L30           | 64.167-59.167         | A    | 0.000                             | 0.000                             | 12.813  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 5.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 9.568   | 0.000  | 0.098       |
| L31           | 59.167-54.167         | A    | 0.000                             | 0.000                             | 12.813  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 5.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 9.568   | 0.000  | 0.098       |
| L32           | 54.167-49.167         | A    | 0.000                             | 0.000                             | 12.792  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 4.979   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 9.547   | 0.000  | 0.098       |
| L33           | 49.167-47.167         | A    | 0.000                             | 0.000                             | 5.292   | 0.000  | 0.021       |
|               |                       | B    | 0.000                             | 0.000                             | 2.167   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 3.994   | 0.000  | 0.039       |
| L34           | 47.167-46.917         | A    | 0.000                             | 0.000                             | 0.661   | 0.000  | 0.003       |
|               |                       | B    | 0.000                             | 0.000                             | 0.271   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.499   | 0.000  | 0.005       |
| L35           | 46.917-43.417         | A    | 0.000                             | 0.000                             | 9.260   | 0.000  | 0.037       |
|               |                       | B    | 0.000                             | 0.000                             | 3.792   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 6.989   | 0.000  | 0.068       |
| L36           | 43.417-43.167         | A    | 0.000                             | 0.000                             | 0.661   | 0.000  | 0.003       |
|               |                       | B    | 0.000                             | 0.000                             | 0.271   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.499   | 0.000  | 0.005       |
| L37           | 43.167-38.167         | A    | 0.000                             | 0.000                             | 10.416  | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 5.417   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 7.171   | 0.000  | 0.098       |
| L38           | 38.167-31.537         | A    | 0.000                             | 0.000                             | 12.569  | 0.000  | 0.071       |
|               |                       | B    | 0.000                             | 0.000                             | 7.182   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 8.266   | 0.000  | 0.129       |
| L39           | 31.537-30.537         | A    | 0.000                             | 0.000                             | 1.896   | 0.000  | 0.011       |
|               |                       | B    | 0.000                             | 0.000                             | 1.083   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 1.247   | 0.000  | 0.020       |
| L40           | 30.537-25.537         | A    | 0.000                             | 0.000                             | 4.734   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.672   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 1.489   | 0.000  | 0.098       |
| L41           | 25.537-20.537         | A    | 0.000                             | 0.000                             | 4.063   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.910   | 0.000  | 0.098       |
| L42           | 20.537-15.537         | A    | 0.000                             | 0.000                             | 4.063   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |



|  |  |                                       |
|--|--|---------------------------------------|
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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Tower Elevation<br>ft | Face | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>A</sub> A <sub>A</sub><br>In Face<br>ft <sup>2</sup> | C <sub>A</sub> A <sub>A</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|------|-----------------------------------|-----------------------------------|---|--|-------------|
| L43           | 15.537-10.537         | C    | 0.000                             | 0.000                             | 1.133   | 0.000  | 0.098       |
|               |                       | A    | 0.000                             | 0.000                             | 4.063   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
| L44           | 10.537-5.537          | C    | 0.000                             | 0.000                             | 1.133   | 0.000  | 0.098       |
|               |                       | A    | 0.000                             | 0.000                             | 4.063   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
| L45           | 5.537-0.537           | C    | 0.000                             | 0.000                             | 1.133   | 0.000  | 0.098       |
|               |                       | A    | 0.000                             | 0.000                             | 4.063   | 0.000  | 0.053       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
| L46           | 0.537-0.000           | C    | 0.000                             | 0.000                             | 1.133   | 0.000  | 0.098       |
|               |                       | A    | 0.000                             | 0.000                             | 0.436   | 0.000  | 0.006       |
|               |                       | B    | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C    | 0.000                             | 0.000                             | 0.122   | 0.000  | 0.011       |

### Feed Line/Linear Appurtenances Section Areas - With Ice

| Tower Section | Tower Elevation<br>ft | Face or Leg | Ice Thickness<br>in | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>A</sub> A <sub>A</sub><br>In Face<br>ft <sup>2</sup> | C <sub>A</sub> A <sub>A</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|---|--|-------------|
| L1            | 150.167-145.167       | A           | 0.987               | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 1.175   | 0.000  | 0.046       |
| L2            | 145.167-140.167       | A           | 0.984               | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 1.171   | 0.000  | 0.057       |
| L3            | 140.167-135.167       | A           | 0.980               | 0.000                             | 0.000                             | 0.000   | 6.093  | 0.106       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 1.168   | 0.000  | 0.057       |
| L4            | 135.167-130.167       | A           | 0.977               | 0.000                             | 0.000                             | 0.000   | 6.299  | 0.110       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 1.164   | 0.000  | 0.057       |
| L5            | 130.167-125.167       | A           | 0.973               | 0.000                             | 0.000                             | 0.000   | 6.845  | 0.113       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.551   | 0.000  | 0.003       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 8.505   | 0.000  | 0.163       |
| L6            | 125.167-123.750       | A           | 0.971               | 0.000                             | 0.000                             | 0.000   | 3.121  | 0.039       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 1.338   | 0.000  | 0.008       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 3.657   | 0.000  | 0.054       |
| L7            | 123.750-123.500       | A           | 0.970               | 0.000                             | 0.000                             | 0.000   | 0.551  | 0.007       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.236   | 0.000  | 0.001       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 0.645   | 0.000  | 0.010       |
| L8            | 123.500-118.500       | A           | 0.968               | 0.000                             | 0.000                             | 0.000   | 11.006   | 0.137       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 4.718   | 0.000  | 0.028       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 12.896  | 0.000  | 0.190       |
| L9            | 118.500-113.500       | A           | 0.964               | 0.000                             | 0.000                             | 0.000   | 18.333   | 0.500       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 12.050  | 0.000  | 0.391       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 20.218  | 0.000  | 0.553       |
| L10           | 113.500-112.167       | A           | 0.961               | 0.000                             | 0.000                             | 0.000   | 5.761  | 0.176       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 4.087   | 0.000  | 0.147       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 6.263   | 0.000  | 0.190       |
| L11           | 112.167-111.917       | A           | 0.961               | 0.000                             | 0.000                             | 0.000   | 1.080  | 0.033       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.766   | 0.000  | 0.027       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 1.174   | 0.000  | 0.036       |
| L12           | 111.917-110.167       | A           | 0.960               | 0.000                             | 0.000                             | 0.000   | 6.701  | 0.204       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 4.503   | 0.000  | 0.166       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 7.359   | 0.000  | 0.223       |
| L13           | 110.167-109.917       | A           | 0.959               | 0.000                             | 0.000                             | 0.000   | 0.716  | 0.015       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.403   | 0.000  | 0.009       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 0.811   | 0.000  | 0.017       |

# tnxTower

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**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A <sub>R</sub> ft <sup>2</sup> | A <sub>F</sub> ft <sup>2</sup> | C <sub>AA</sub> In Face ft <sup>2</sup> | C <sub>AA</sub> Out Face ft <sup>2</sup> | Weight K |
|---------------|--------------------|-------------|------------------|--------------------------------|--------------------------------|---|--|----------|
| L14           | 109.917-104.917    | A           | 0.956            | 0.000                          | 0.000                          | 22.870                                  | 0.000                                    | 0.637    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 16.596                                  | 0.000                                    | 0.529    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 17.974                                  | 0.000                                    | 0.634    |
| L15           | 104.917-99.917     | A           | 0.952            | 0.000                          | 0.000                          | 16.609                                  | 0.000                                    | 0.341    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 10.341                                  | 0.000                                    | 0.233    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 11.480                                  | 0.000                                    | 0.336    |
| L16           | 99.917-95.000      | A           | 0.947            | 0.000                          | 0.000                          | 13.915                                  | 0.000                                    | 0.150    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 7.756                                   | 0.000                                    | 0.043    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 7.374                                   | 0.000                                    | 0.137    |
| L17           | 95.000-94.750      | A           | 0.945            | 0.000                          | 0.000                          | 0.845                                   | 0.000                                    | 0.008    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 0.532                                   | 0.000                                    | 0.003    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 0.375                                   | 0.000                                    | 0.007    |
| L18           | 94.750-89.750      | A           | 0.942            | 0.000                          | 0.000                          | 16.890                                  | 0.000                                    | 0.168    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 10.634                                  | 0.000                                    | 0.060    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 7.488                                   | 0.000                                    | 0.139    |
| L19           | 89.750-85.500      | A           | 0.937            | 0.000                          | 0.000                          | 15.749                                  | 0.000                                    | 0.150    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 9.031                                   | 0.000                                    | 0.050    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 7.763                                   | 0.000                                    | 0.125    |
| L20           | 85.500-85.250      | A           | 0.935            | 0.000                          | 0.000                          | 1.078                                   | 0.000                                    | 0.010    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 0.531                                   | 0.000                                    | 0.003    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 0.608                                   | 0.000                                    | 0.008    |
| L21           | 85.250-85.000      | A           | 0.934            | 0.000                          | 0.000                          | 1.077                                   | 0.000                                    | 0.010    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 0.531                                   | 0.000                                    | 0.003    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 0.608                                   | 0.000                                    | 0.008    |
| L22           | 85.000-84.750      | A           | 0.934            | 0.000                          | 0.000                          | 1.057                                   | 0.000                                    | 0.010    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 0.510                                   | 0.000                                    | 0.003    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 0.905                                   | 0.000                                    | 0.010    |
| L23           | 84.750-83.000      | A           | 0.933            | 0.000                          | 0.000                          | 7.395                                   | 0.000                                    | 0.067    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 3.570                                   | 0.000                                    | 0.020    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 6.330                                   | 0.000                                    | 0.069    |
| L24           | 83.000-82.650      | A           | 0.932            | 0.000                          | 0.000                          | 1.479                                   | 0.000                                    | 0.013    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 0.714                                   | 0.000                                    | 0.004    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 1.266                                   | 0.000                                    | 0.014    |
| L25           | 82.650-82.417      | A           | 0.932            | 0.000                          | 0.000                          | 0.985                                   | 0.000                                    | 0.009    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 0.476                                   | 0.000                                    | 0.003    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 0.844                                   | 0.000                                    | 0.009    |
| L26           | 82.417-77.417      | A           | 0.929            | 0.000                          | 0.000                          | 21.108                                  | 0.000                                    | 0.189    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 10.191                                  | 0.000                                    | 0.056    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 14.790                                  | 0.000                                    | 0.178    |
| L27           | 77.417-70.167      | A           | 0.921            | 0.000                          | 0.000                          | 29.213                                  | 0.000                                    | 0.265    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 13.407                                  | 0.000                                    | 0.073    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 17.289                                  | 0.000                                    | 0.235    |
| L28           | 70.167-69.167      | A           | 0.916            | 0.000                          | 0.000                          | 3.364                                   | 0.000                                    | 0.033    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 1.184                                   | 0.000                                    | 0.006    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 2.728                                   | 0.000                                    | 0.035    |
| L29           | 69.167-64.167      | A           | 0.912            | 0.000                          | 0.000                          | 16.792                                  | 0.000                                    | 0.163    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 5.912                                   | 0.000                                    | 0.031    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 13.601                                  | 0.000                                    | 0.172    |
| L30           | 64.167-59.167      | A           | 0.905            | 0.000                          | 0.000                          | 16.769                                  | 0.000                                    | 0.162    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 5.905                                   | 0.000                                    | 0.031    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 13.571                                  | 0.000                                    | 0.172    |
| L31           | 59.167-54.167      | A           | 0.897            | 0.000                          | 0.000                          | 16.744                                  | 0.000                                    | 0.161    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 5.897                                   | 0.000                                    | 0.030    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 13.538                                  | 0.000                                    | 0.171    |
| L32           | 54.167-49.167      | A           | 0.889            | 0.000                          | 0.000                          | 16.682                                  | 0.000                                    | 0.160    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 5.854                                   | 0.000                                    | 0.030    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 13.468                                  | 0.000                                    | 0.170    |
| L33           | 49.167-47.167      | A           | 0.883            | 0.000                          | 0.000                          | 6.847                                   | 0.000                                    | 0.065    |
|               |                    | B           |                  | 0.000                          | 0.000                          | 2.520                                   | 0.000                                    | 0.013    |
|               |                    | C           |                  | 0.000                          | 0.000                          | 5.558                                   | 0.000                                    | 0.069    |
| L34           | 47.167-46.917      | A           | 0.881            | 0.000                          | 0.000                          | 0.855                                   | 0.000                                    | 0.008    |

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|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>15 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Tower Elevation<br>ft | Face or Leg | Ice Thickness<br>in | A <sub>R</sub><br>ft <sup>2</sup> | A <sub>F</sub><br>ft <sup>2</sup> | C <sub>AA</sub><br>In Face<br>ft <sup>2</sup> | C <sub>AA</sub><br>Out Face<br>ft <sup>2</sup> | Weight<br>K |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|---|--|-------------|
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.315   | 0.000  | 0.002       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 0.694   | 0.000  | 0.009       |
| L35           | 46.917-43.417         | A           | 0.877               | 0.000                             | 0.000                             | 11.967  | 0.000  | 0.113       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 4.406   | 0.000  | 0.022       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 9.709   | 0.000  | 0.120       |
| L36           | 43.417-43.167         | A           | 0.873               | 0.000                             | 0.000                             | 0.854   | 0.000  | 0.008       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.315   | 0.000  | 0.002       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 0.693   | 0.000  | 0.009       |
| L37           | 43.167-38.167         | A           | 0.868               | 0.000                             | 0.000                             | 13.602  | 0.000  | 0.142       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 6.285   | 0.000  | 0.032       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 10.367  | 0.000  | 0.152       |
| L38           | 38.167-31.537         | A           | 0.855               | 0.000                             | 0.000                             | 16.465  | 0.000  | 0.178       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 8.315   | 0.000  | 0.041       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 12.158  | 0.000  | 0.192       |
| L39           | 31.537-30.537         | A           | 0.845               | 0.000                             | 0.000                             | 2.484   | 0.000  | 0.027       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 1.254   | 0.000  | 0.006       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 1.834   | 0.000  | 0.029       |
| L40           | 30.537-25.537         | A           | 0.836               | 0.000                             | 0.000                             | 6.899   | 0.000  | 0.106       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.775   | 0.000  | 0.004       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 3.632   | 0.000  | 0.117       |
| L41           | 25.537-20.537         | A           | 0.820               | 0.000                             | 0.000                             | 6.103   | 0.000  | 0.102       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 2.935   | 0.000  | 0.114       |
| L42           | 20.537-15.537         | A           | 0.800               | 0.000                             | 0.000                             | 6.078   | 0.000  | 0.101       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 3.169   | 0.000  | 0.115       |
| L43           | 15.537-10.537         | A           | 0.775               | 0.000                             | 0.000                             | 6.046   | 0.000  | 0.099       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 3.112   | 0.000  | 0.115       |
| L44           | 10.537-5.537          | A           | 0.738               | 0.000                             | 0.000                             | 6.001   | 0.000  | 0.097       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 3.029   | 0.000  | 0.113       |
| L45           | 5.537-0.537           | A           | 0.669               | 0.000                             | 0.000                             | 5.915   | 0.000  | 0.094       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 2.875   | 0.000  | 0.111       |
| L46           | 0.537-0.000           | A           | 0.525               | 0.000                             | 0.000                             | 0.616   | 0.000  | 0.009       |
|               |                       | B           |                     | 0.000                             | 0.000                             | 0.000   | 0.000  | 0.000       |
|               |                       | C           |                     | 0.000                             | 0.000                             | 0.274   | 0.000  | 0.012       |

### Feed Line Center of Pressure

| Section | Elevation<br>ft | CP <sub>x</sub><br>in | CP <sub>z</sub><br>in | CP <sub>x</sub><br>Ice<br>in | CP <sub>z</sub><br>Ice<br>in |
|---------|-----------------|-----------------------|-----------------------|------------------------------|------------------------------|
| L1      | 150.167-145.167 | 0.095                 | 0.208                 | 0.385                        | 0.840                        |
| L2      | 145.167-140.167 | 0.095                 | 0.208                 | 0.387                        | 0.845                        |
| L3      | 140.167-135.167 | -3.102                | -0.213                | -3.014                       | 0.148                        |
| L4      | 135.167-130.167 | -3.207                | -0.224                | -3.130                       | 0.139                        |
| L5      | 130.167-125.167 | -1.721                | 2.344                 | -1.568                       | 2.461                        |
| L6      | 125.167-123.750 | -1.121                | 1.601                 | -1.115                       | 1.828                        |
| L7      | 123.750-123.500 | -1.127                | 1.610                 | -1.121                       | 1.838                        |
| L8      | 123.500-118.500 | -1.143                | 1.632                 | -1.135                       | 1.863                        |
| L9      | 118.500-113.500 | -0.705                | 1.008                 | -0.778                       | 1.279                        |
| L10     | 113.500-112.167 | -0.610                | 0.872                 | -0.690                       | 1.133                        |
| L11     | 112.167-111.917 | -0.610                | 0.872                 | -0.691                       | 1.135                        |
| L12     | 111.917-110.167 | -0.684                | 0.978                 | -0.769                       | 1.264                        |
| L13     | 110.167-109.917 | -1.035                | 1.235                 | -1.105                       | 1.571                        |

|  |  |                                       |
|--|--|---------------------------------------|
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section | Elevation       | CP <sub>x</sub> | CP <sub>z</sub> | CP <sub>x</sub> | CP <sub>z</sub> |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|
|         |                 | in              | in              | Ice<br>in       | Ice<br>in       |
| L14     | 109.917-104.917 | -1.143          | -0.111          | -1.314          | 0.004           |
| L15     | 104.917-99.917  | -1.656          | -0.206          | -1.852          | -0.050          |
| L16     | 99.917-95.000   | -1.922          | -0.657          | -2.062          | -0.448          |
| L17     | 95.000-94.750   | -1.373          | -1.205          | -1.522          | -1.025          |
| L18     | 94.750-89.750   | -1.390          | -1.222          | -1.540          | -1.038          |
| L19     | 89.750-85.500   | -1.705          | -1.498          | -1.838          | -1.313          |
| L20     | 85.500-85.250   | -2.160          | -1.894          | -2.269          | -1.715          |
| L21     | 85.250-85.000   | -2.163          | -1.897          | -2.271          | -1.717          |
| L22     | 85.000-84.750   | -2.295          | -0.336          | -2.361          | -0.288          |
| L23     | 84.750-83.000   | -2.307          | -0.338          | -2.372          | -0.290          |
| L24     | 83.000-82.650   | -2.319          | -0.339          | -2.383          | -0.291          |
| L25     | 82.650-82.417   | -2.322          | -0.340          | -2.386          | -0.292          |
| L26     | 82.417-77.417   | -2.088          | -1.103          | -2.178          | -0.980          |
| L27     | 77.417-70.167   | -2.051          | -1.772          | -2.150          | -1.503          |
| L28     | 70.167-69.167   | -2.783          | -0.947          | -2.692          | -0.374          |
| L29     | 69.167-64.167   | -2.814          | -0.959          | -2.721          | -0.382          |
| L30     | 64.167-59.167   | -2.867          | -0.978          | -2.768          | -0.392          |
| L31     | 59.167-54.167   | -2.919          | -0.997          | -2.814          | -0.402          |
| L32     | 54.167-49.167   | -2.973          | -1.017          | -2.865          | -0.413          |
| L33     | 49.167-47.167   | -2.904          | -0.994          | -2.829          | -0.411          |
| L34     | 47.167-46.917   | -2.916          | -0.999          | -2.839          | -0.414          |
| L35     | 46.917-43.417   | -2.934          | -1.005          | -2.856          | -0.418          |
| L36     | 43.417-43.167   | -2.952          | -1.012          | -2.871          | -0.422          |
| L37     | 43.167-38.167   | -2.293          | -0.177          | -2.283          | 0.393           |
| L38     | 38.167-31.537   | -2.054          | 0.165           | -2.076          | 0.720           |
| L39     | 31.537-30.537   | -2.049          | 0.164           | -2.072          | 0.718           |
| L40     | 30.537-25.537   | -3.521          | 0.283           | -3.134          | 1.072           |
| L41     | 25.537-20.537   | -3.895          | 0.401           | -3.389          | 1.213           |
| L42     | 20.537-15.537   | -3.856          | 0.602           | -3.383          | 1.355           |
| L43     | 15.537-10.537   | -3.872          | 0.606           | -3.416          | 1.347           |
| L44     | 10.537-5.537    | -3.887          | 0.610           | -3.451          | 1.327           |
| L45     | 5.537-0.537     | -3.902          | 0.614           | -3.493          | 1.277           |
| L46     | 0.537-0.000     | -3.910          | 0.616           | -3.543          | 1.144           |

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

### Shielding Factor Ka

| Tower Section | Feed Line Record No. | Description                           | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|---------------------------------------|-------------------------|-----------------------|--------------------|
| L1            | 23                   | Safety Line 3/8                       | 145.17 - 150.17         | 1.0000                | 1.0000             |
| L2            | 23                   | Safety Line 3/8                       | 140.17 - 145.17         | 1.0000                | 1.0000             |
| L3            | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 135.17 - 140.00         | 1.0000                | 1.0000             |
| L3            | 23                   | Safety Line 3/8                       | 135.17 - 140.17         | 1.0000                | 1.0000             |
| L4            | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 130.17 - 135.17         | 1.0000                | 1.0000             |
| L4            | 23                   | Safety Line 3/8                       | 130.17 - 135.17         | 1.0000                | 1.0000             |

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93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Feed Line Record No. | Description                                 | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|---|-------------------------|-----------------------|--------------------|
| L5            | 3                    | LDF6-50A(1-1/4)                             | 125.17 - 130.00         | 1.0000                | 1.0000             |
| L5            | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 125.17 - 130.17         | 1.0000                | 1.0000             |
| L5            | 23                   | Safety Line 3/8                             | 125.17 - 130.17         | 1.0000                | 1.0000             |
| L5            | 38                   | 4.5" x 1" Plate                             | 125.17 - 125.75         | 1.0000                | 1.0000             |
| L5            | 39                   | 4.5" x 1" Plate                             | 125.17 - 125.75         | 1.0000                | 1.0000             |
| L5            | 40                   | 4.5" x 1" Plate                             | 125.17 - 125.75         | 1.0000                | 1.0000             |
| L6            | 3                    | LDF6-50A(1-1/4)                             | 123.75 - 125.17         | 1.0000                | 1.0000             |
| L6            | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 123.75 - 125.17         | 1.0000                | 1.0000             |
| L6            | 23                   | Safety Line 3/8                             | 123.75 - 125.17         | 1.0000                | 1.0000             |
| L6            | 38                   | 4.5" x 1" Plate                             | 123.75 - 125.17         | 1.0000                | 1.0000             |
| L6            | 39                   | 4.5" x 1" Plate                             | 123.75 - 125.17         | 1.0000                | 1.0000             |
| L6            | 40                   | 4.5" x 1" Plate                             | 123.75 - 125.17         | 1.0000                | 1.0000             |
| L7            | 3                    | LDF6-50A(1-1/4)                             | 123.50 - 123.75         | 1.0000                | 1.0000             |
| L7            | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 123.50 - 123.75         | 1.0000                | 1.0000             |
| L7            | 23                   | Safety Line 3/8                             | 123.50 - 123.75         | 1.0000                | 1.0000             |
| L7            | 38                   | 4.5" x 1" Plate                             | 123.50 - 123.75         | 1.0000                | 1.0000             |
| L7            | 39                   | 4.5" x 1" Plate                             | 123.50 - 123.75         | 1.0000                | 1.0000             |
| L7            | 40                   | 4.5" x 1" Plate                             | 123.50 - 123.75         | 1.0000                | 1.0000             |
| L8            | 3                    | LDF6-50A(1-1/4)                             | 118.50 - 123.50         | 1.0000                | 1.0000             |
| L8            | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 118.50 - 123.50         | 1.0000                | 1.0000             |
| L8            | 23                   | Safety Line 3/8                             | 118.50 - 123.50         | 1.0000                | 1.0000             |
| L8            | 38                   | 4.5" x 1" Plate                             | 118.50 - 123.50         | 1.0000                | 1.0000             |
| L8            | 39                   | 4.5" x 1" Plate                             | 118.50 - 123.50         | 1.0000                | 1.0000             |
| L8            | 40                   | 4.5" x 1" Plate                             | 118.50 - 123.50         | 1.0000                | 1.0000             |
| L9            | 3                    | LDF6-50A(1-1/4)                             | 113.50 - 118.50         | 1.0000                | 1.0000             |
| L9            | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 113.50 - 118.50         | 1.0000                | 1.0000             |
| L9            | 23                   | Safety Line 3/8                             | 113.50 - 118.50         | 1.0000                | 1.0000             |
| L9            | 38                   | 4.5" x 1" Plate                             | 113.50 - 118.50         | 1.0000                | 1.0000             |
| L9            | 39                   | 4.5" x 1" Plate                             | 113.50 - 118.50         | 1.0000                | 1.0000             |

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**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Feed Line Record No. | Description                                 | Feed Line Segment Elev.      | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|---|------------------------------|-----------------------|--------------------|
| L9            | 40                   | 4.5" x 1" Plate                             | 118.50<br>113.50 -<br>118.50 | 1.0000                | 1.0000             |
| L9            | 51                   | CCI 6.5" x 3" Plate                         | 113.50 -<br>117.00           | 1.0000                | 1.0000             |
| L9            | 52                   | CCI 6.5" x 3" Plate                         | 113.50 -<br>117.00           | 1.0000                | 1.0000             |
| L9            | 53                   | CCI 6.5" x 3" Plate                         | 113.50 -<br>117.00           | 1.0000                | 1.0000             |
| L9            | 55                   | CCI 6.5" x 1.25" Plate                      | 113.50 -<br>116.92           | 1.0000                | 1.0000             |
| L9            | 56                   | CCI 6.5" x 1.25" Plate                      | 113.50 -<br>116.92           | 1.0000                | 1.0000             |
| L9            | 57                   | CCI 6.5" x 1.25" Plate                      | 113.50 -<br>116.92           | 1.0000                | 1.0000             |
| L10           | 3                    | LDF6-50A(1-1/4)                             | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 23                   | Safety Line 3/8                             | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 38                   | 4.5" x 1" Plate                             | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 39                   | 4.5" x 1" Plate                             | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 40                   | 4.5" x 1" Plate                             | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 51                   | CCI 6.5" x 3" Plate                         | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 52                   | CCI 6.5" x 3" Plate                         | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 53                   | CCI 6.5" x 3" Plate                         | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 55                   | CCI 6.5" x 1.25" Plate                      | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 56                   | CCI 6.5" x 1.25" Plate                      | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L10           | 57                   | CCI 6.5" x 1.25" Plate                      | 112.17 -<br>113.50           | 1.0000                | 1.0000             |
| L11           | 3                    | LDF6-50A(1-1/4)                             | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 23                   | Safety Line 3/8                             | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 38                   | 4.5" x 1" Plate                             | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 39                   | 4.5" x 1" Plate                             | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 40                   | 4.5" x 1" Plate                             | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 51                   | CCI 6.5" x 3" Plate                         | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 52                   | CCI 6.5" x 3" Plate                         | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 53                   | CCI 6.5" x 3" Plate                         | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 55                   | CCI 6.5" x 1.25" Plate                      | 111.92 -<br>112.17           | 1.0000                | 1.0000             |
| L11           | 56                   | CCI 6.5" x 1.25" Plate                      | 111.92 -                     | 1.0000                | 1.0000             |

# tnxTower

**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
 FAX: (918) 587-4630

|                |  |                    |                   |
|----------------|--|--------------------|-------------------|
| <b>Job</b>     | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b>        | 19 of 69          |
| <b>Project</b> |  | <b>Date</b>        | 18:39:54 09/08/21 |
| <b>Client</b>  | Crown Castle                                 | <b>Designed by</b> | Nithish Acharya   |

| Tower Section | Feed Line Record No. | Description                                 | Feed Line Segment Elev.      | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|---|------------------------------|-----------------------|--------------------|
| L11           | 57                   | CCI 6.5" x 1.25" Plate                      | 112.17<br>111.92 -<br>112.17 | 1.0000                | 1.0000             |
| L12           | 3                    | LDF6-50A(1-1/4)                             | 110.17 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 110.17 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 23                   | Safety Line 3/8                             | 110.17 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 38                   | 4.5" x 1" Plate                             | 110.75 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 39                   | 4.5" x 1" Plate                             | 110.75 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 40                   | 4.5" x 1" Plate                             | 110.75 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 51                   | CCI 6.5" x 3" Plate                         | 110.50 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 52                   | CCI 6.5" x 3" Plate                         | 110.50 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 53                   | CCI 6.5" x 3" Plate                         | 110.50 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 55                   | CCI 6.5" x 1.25" Plate                      | 110.17 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 56                   | CCI 6.5" x 1.25" Plate                      | 110.17 -<br>111.92           | 1.0000                | 1.0000             |
| L12           | 57                   | CCI 6.5" x 1.25" Plate                      | 110.17 -<br>111.92           | 1.0000                | 1.0000             |
| L13           | 3                    | LDF6-50A(1-1/4)                             | 109.92 -<br>110.17           | 1.0000                | 1.0000             |
| L13           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 109.92 -<br>110.17           | 1.0000                | 1.0000             |
| L13           | 23                   | Safety Line 3/8                             | 109.92 -<br>110.17           | 1.0000                | 1.0000             |
| L13           | 34                   | 6.5" x 1.25" Plate                          | 109.92 -<br>110.00           | 1.0000                | 1.0000             |
| L13           | 35                   | 6.5" x 1.25" Plate                          | 109.92 -<br>110.00           | 1.0000                | 1.0000             |
| L13           | 36                   | 6.5" x 1.25" Plate                          | 109.92 -<br>110.00           | 1.0000                | 1.0000             |
| L13           | 55                   | CCI 6.5" x 1.25" Plate                      | 109.92 -<br>110.17           | 1.0000                | 1.0000             |
| L13           | 56                   | CCI 6.5" x 1.25" Plate                      | 109.92 -<br>110.17           | 1.0000                | 1.0000             |
| L13           | 57                   | CCI 6.5" x 1.25" Plate                      | 109.92 -<br>110.17           | 1.0000                | 1.0000             |
| L14           | 3                    | LDF6-50A(1-1/4)                             | 109.75 -<br>109.92           | 1.0000                | 1.0000             |
| L14           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 104.92 -<br>109.92           | 1.0000                | 1.0000             |
| L14           | 23                   | Safety Line 3/8                             | 104.92 -<br>109.92           | 1.0000                | 1.0000             |
| L14           | 34                   | 6.5" x 1.25" Plate                          | 104.92 -<br>109.92           | 1.0000                | 1.0000             |
| L14           | 35                   | 6.5" x 1.25" Plate                          | 104.92 -<br>109.92           | 1.0000                | 1.0000             |
| L14           | 36                   | 6.5" x 1.25" Plate                          | 104.92 -<br>109.92           | 1.0000                | 1.0000             |
| L14           | 47                   | CCI 6.5" x 3" Plate                         | 104.92 -<br>109.50           | 1.0000                | 1.0000             |

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**Job**  
 93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
 18:39:54 09/08/21

**Client**  
 Crown Castle  
**Designed by**  
 Nithish Acharya

| Tower Section | Feed Line Record No. | Description                           | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|---------------------------------------|-------------------------|-----------------------|--------------------|
| L14           | 48                   | CCI 6.5" x 3" Plate                   | 104.92 - 109.50         | 1.0000                | 1.0000             |
| L14           | 49                   | CCI 6.5" x 3" Plate                   | 104.92 - 109.50         | 1.0000                | 1.0000             |
| L14           | 55                   | CCI 6.5" x 1.25" Plate                | 104.92 - 109.92         | 1.0000                | 1.0000             |
| L14           | 56                   | CCI 6.5" x 1.25" Plate                | 104.92 - 109.92         | 1.0000                | 1.0000             |
| L14           | 57                   | CCI 6.5" x 1.25" Plate                | 104.92 - 109.92         | 1.0000                | 1.0000             |
| L15           | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 99.92 - 104.92          | 1.0000                | 1.0000             |
| L15           | 23                   | Safety Line 3/8                       | 99.92 - 104.92          | 1.0000                | 1.0000             |
| L15           | 34                   | 6.5" x 1.25" Plate                    | 99.92 - 104.92          | 1.0000                | 1.0000             |
| L15           | 35                   | 6.5" x 1.25" Plate                    | 99.92 - 104.92          | 1.0000                | 1.0000             |
| L15           | 36                   | 6.5" x 1.25" Plate                    | 99.92 - 104.92          | 1.0000                | 1.0000             |
| L15           | 47                   | CCI 6.5" x 3" Plate                   | 103.00 - 104.92         | 1.0000                | 1.0000             |
| L15           | 48                   | CCI 6.5" x 3" Plate                   | 103.00 - 104.92         | 1.0000                | 1.0000             |
| L15           | 49                   | CCI 6.5" x 3" Plate                   | 103.00 - 104.92         | 1.0000                | 1.0000             |
| L15           | 55                   | CCI 6.5" x 1.25" Plate                | 103.08 - 104.92         | 1.0000                | 1.0000             |
| L15           | 56                   | CCI 6.5" x 1.25" Plate                | 103.08 - 104.92         | 1.0000                | 1.0000             |
| L15           | 57                   | CCI 6.5" x 1.25" Plate                | 103.08 - 104.92         | 1.0000                | 1.0000             |
| L16           | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 95.00 - 99.92           | 1.0000                | 1.0000             |
| L16           | 23                   | Safety Line 3/8                       | 95.00 - 99.92           | 1.0000                | 1.0000             |
| L16           | 26                   | PL4x1                                 | 95.00 - 96.75           | 1.0000                | 1.0000             |
| L16           | 27                   | PL4x1                                 | 95.00 - 96.75           | 1.0000                | 1.0000             |
| L16           | 34                   | 6.5" x 1.25" Plate                    | 95.00 - 99.92           | 1.0000                | 1.0000             |
| L16           | 35                   | 6.5" x 1.25" Plate                    | 95.00 - 99.92           | 1.0000                | 1.0000             |
| L16           | 36                   | 6.5" x 1.25" Plate                    | 95.00 - 99.92           | 1.0000                | 1.0000             |
| L17           | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L17           | 23                   | Safety Line 3/8                       | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L17           | 26                   | PL4x1                                 | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L17           | 27                   | PL4x1                                 | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L17           | 34                   | 6.5" x 1.25" Plate                    | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L17           | 35                   | 6.5" x 1.25" Plate                    | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L17           | 36                   | 6.5" x 1.25" Plate                    | 94.75 - 95.00           | 1.0000                | 1.0000             |
| L18           | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L18           | 23                   | Safety Line 3/8                       | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L18           | 26                   | PL4x1                                 | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L18           | 27                   | PL4x1                                 | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L18           | 34                   | 6.5" x 1.25" Plate                    | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L18           | 35                   | 6.5" x 1.25" Plate                    | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L18           | 36                   | 6.5" x 1.25" Plate                    | 89.75 - 94.75           | 1.0000                | 1.0000             |
| L19           | 14                   | MLE HYBRID 9POWER/18FIBER RL 2(1-5/8) | 85.50 - 89.75           | 1.0000                | 1.0000             |
| L19           | 23                   | Safety Line 3/8                       | 85.50 - 89.75           | 1.0000                | 1.0000             |
| L19           | 26                   | PL4x1                                 | 85.50 - 89.75           | 1.0000                | 1.0000             |
| L19           | 27                   | PL4x1                                 | 85.50 - 89.75           | 1.0000                | 1.0000             |



# tnxTower

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**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Feed Line Record No. | Description                                 | Feed Line Segment Elev. | $K_a$ No Ice | $K_a$ Ice |
|---------------|----------------------|---|-------------------------|--------------|-----------|
| L19           | 34                   | 6.5" x 1.25" Plate                          | 85.50 - 89.75           | 1.0000       | 1.0000    |
| L19           | 35                   | 6.5" x 1.25" Plate                          | 85.50 - 89.75           | 1.0000       | 1.0000    |
| L19           | 36                   | 6.5" x 1.25" Plate                          | 85.50 - 89.75           | 1.0000       | 1.0000    |
| L19           | 59                   | CCI 4.5" x 1" Plate                         | 85.50 - 87.00           | 1.0000       | 1.0000    |
| L19           | 61                   | CCI 4.5" x 1" Plate                         | 85.50 - 87.00           | 1.0000       | 1.0000    |
| L20           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 23                   | Safety Line 3/8                             | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 26                   | PL4x1                                       | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 27                   | PL4x1                                       | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 34                   | 6.5" x 1.25" Plate                          | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 35                   | 6.5" x 1.25" Plate                          | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 36                   | 6.5" x 1.25" Plate                          | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 59                   | CCI 4.5" x 1" Plate                         | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L20           | 61                   | CCI 4.5" x 1" Plate                         | 85.25 - 85.50           | 1.0000       | 1.0000    |
| L21           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 23                   | Safety Line 3/8                             | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 26                   | PL4x1                                       | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 27                   | PL4x1                                       | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 34                   | 6.5" x 1.25" Plate                          | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 35                   | 6.5" x 1.25" Plate                          | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 36                   | 6.5" x 1.25" Plate                          | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 59                   | CCI 4.5" x 1" Plate                         | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L21           | 61                   | CCI 4.5" x 1" Plate                         | 85.00 - 85.25           | 1.0000       | 1.0000    |
| L22           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 23                   | Safety Line 3/8                             | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 26                   | PL4x1                                       | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 27                   | PL4x1                                       | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 30                   | 6" x 1" Plate                               | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 31                   | 6" x 1" Plate                               | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 32                   | 6" x 1" Plate                               | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 36                   | 6.5" x 1.25" Plate                          | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 59                   | CCI 4.5" x 1" Plate                         | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L22           | 61                   | CCI 4.5" x 1" Plate                         | 84.75 - 85.00           | 1.0000       | 1.0000    |
| L23           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 23                   | Safety Line 3/8                             | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 26                   | PL4x1                                       | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 27                   | PL4x1                                       | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 30                   | 6" x 1" Plate                               | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 31                   | 6" x 1" Plate                               | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 32                   | 6" x 1" Plate                               | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 36                   | 6.5" x 1.25" Plate                          | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 59                   | CCI 4.5" x 1" Plate                         | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L23           | 61                   | CCI 4.5" x 1" Plate                         | 83.00 - 84.75           | 1.0000       | 1.0000    |
| L24           | 14                   | MLE HYBRID<br>9POWER/18FIBER RL<br>2(1-5/8) | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 23                   | Safety Line 3/8                             | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 26                   | PL4x1                                       | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 27                   | PL4x1                                       | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 30                   | 6" x 1" Plate                               | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 31                   | 6" x 1" Plate                               | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 32                   | 6" x 1" Plate                               | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 36                   | 6.5" x 1.25" Plate                          | 82.65 - 83.00           | 1.0000       | 1.0000    |
| L24           | 59                   | CCI 4.5" x 1" Plate                         | 82.65 - 83.00           | 1.0000       | 1.0000    |

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**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Feed Line Record No. | Description                   | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|-------------------------------|-------------------------|-----------------------|--------------------|
| L24           | 61                   | CCI 4.5" x 1" Plate           | 82.65 - 83.00           | 1.0000                | 1.0000             |
| L25           | 14                   | MLE HYBRID                    | 82.42 - 82.65           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L25           | 23                   | Safety Line 3/8               | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 26                   | PL4x1                         | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 27                   | PL4x1                         | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 30                   | 6" x 1" Plate                 | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 31                   | 6" x 1" Plate                 | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 32                   | 6" x 1" Plate                 | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 36                   | 6.5" x 1.25" Plate            | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 59                   | CCI 4.5" x 1" Plate           | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L25           | 61                   | CCI 4.5" x 1" Plate           | 82.42 - 82.65           | 1.0000                | 1.0000             |
| L26           | 14                   | MLE HYBRID                    | 77.42 - 82.42           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L26           | 23                   | Safety Line 3/8               | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 26                   | PL4x1                         | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 27                   | PL4x1                         | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 30                   | 6" x 1" Plate                 | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 31                   | 6" x 1" Plate                 | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 32                   | 6" x 1" Plate                 | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 36                   | 6.5" x 1.25" Plate            | 80.00 - 82.42           | 1.0000                | 1.0000             |
| L26           | 59                   | CCI 4.5" x 1" Plate           | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L26           | 61                   | CCI 4.5" x 1" Plate           | 77.42 - 82.42           | 1.0000                | 1.0000             |
| L27           | 14                   | MLE HYBRID                    | 70.17 - 77.42           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L27           | 19                   | LDF4-50A(1/2)                 | 70.17 - 71.00           | 1.0000                | 1.0000             |
| L27           | 23                   | Safety Line 3/8               | 70.17 - 77.42           | 1.0000                | 1.0000             |
| L27           | 26                   | PL4x1                         | 71.75 - 77.42           | 1.0000                | 1.0000             |
| L27           | 27                   | PL4x1                         | 71.75 - 77.42           | 1.0000                | 1.0000             |
| L27           | 30                   | 6" x 1" Plate                 | 70.17 - 77.42           | 1.0000                | 1.0000             |
| L27           | 31                   | 6" x 1" Plate                 | 70.17 - 77.42           | 1.0000                | 1.0000             |
| L27           | 32                   | 6" x 1" Plate                 | 70.17 - 77.42           | 1.0000                | 1.0000             |
| L27           | 59                   | CCI 4.5" x 1" Plate           | 70.17 - 77.42           | 1.0000                | 1.0000             |
| L27           | 61                   | CCI 4.5" x 1" Plate           | 70.17 - 77.42           | 1.0000                | 1.0000             |
| L28           | 14                   | MLE HYBRID                    | 69.17 - 70.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L28           | 19                   | LDF4-50A(1/2)                 | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L28           | 23                   | Safety Line 3/8               | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L28           | 30                   | 6" x 1" Plate                 | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L28           | 31                   | 6" x 1" Plate                 | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L28           | 32                   | 6" x 1" Plate                 | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L28           | 59                   | CCI 4.5" x 1" Plate           | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L28           | 61                   | CCI 4.5" x 1" Plate           | 69.17 - 70.17           | 1.0000                | 1.0000             |
| L29           | 14                   | MLE HYBRID                    | 64.17 - 69.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L29           | 19                   | LDF4-50A(1/2)                 | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L29           | 23                   | Safety Line 3/8               | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L29           | 30                   | 6" x 1" Plate                 | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L29           | 31                   | 6" x 1" Plate                 | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L29           | 32                   | 6" x 1" Plate                 | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L29           | 59                   | CCI 4.5" x 1" Plate           | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L29           | 61                   | CCI 4.5" x 1" Plate           | 64.17 - 69.17           | 1.0000                | 1.0000             |
| L30           | 14                   | MLE HYBRID                    | 59.17 - 64.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L30           | 19                   | LDF4-50A(1/2)                 | 59.17 - 64.17           | 1.0000                | 1.0000             |
| L30           | 23                   | Safety Line 3/8               | 59.17 - 64.17           | 1.0000                | 1.0000             |

# tnxTower

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|                |  |                    |                   |
|----------------|--|--------------------|-------------------|
| <b>Job</b>     | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b>        | 23 of 69          |
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| <b>Client</b>  | Crown Castle                                 | <b>Designed by</b> | Nithish Acharya   |

| Tower Section | Feed Line Record No. | Description            | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|------------------------|-------------------------|-----------------------|--------------------|
| L30           | 30                   | 6" x 1" Plate          | 59.17 - 64.17           | 1.0000                | 1.0000             |
| L30           | 31                   | 6" x 1" Plate          | 59.17 - 64.17           | 1.0000                | 1.0000             |
| L30           | 32                   | 6" x 1" Plate          | 59.17 - 64.17           | 1.0000                | 1.0000             |
| L30           | 59                   | CCI 4.5" x 1" Plate    | 59.17 - 64.17           | 1.0000                | 1.0000             |
| L30           | 61                   | CCI 4.5" x 1" Plate    | 59.17 - 64.17           | 1.0000                | 1.0000             |
| L31           | 14                   | MLE HYBRID             | 54.17 - 59.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L31           | 19                   | LDF4-50A(1/2)          | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L31           | 23                   | Safety Line 3/8        | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L31           | 30                   | 6" x 1" Plate          | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L31           | 31                   | 6" x 1" Plate          | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L31           | 32                   | 6" x 1" Plate          | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L31           | 59                   | CCI 4.5" x 1" Plate    | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L31           | 61                   | CCI 4.5" x 1" Plate    | 54.17 - 59.17           | 1.0000                | 1.0000             |
| L32           | 14                   | MLE HYBRID             | 49.17 - 54.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L32           | 19                   | LDF4-50A(1/2)          | 49.17 - 54.17           | 1.0000                | 1.0000             |
| L32           | 23                   | Safety Line 3/8        | 49.17 - 54.17           | 1.0000                | 1.0000             |
| L32           | 30                   | 6" x 1" Plate          | 50.00 - 54.17           | 1.0000                | 1.0000             |
| L32           | 31                   | 6" x 1" Plate          | 50.00 - 54.17           | 1.0000                | 1.0000             |
| L32           | 32                   | 6" x 1" Plate          | 50.00 - 54.17           | 1.0000                | 1.0000             |
| L32           | 43                   | CCI 6.5" x 1.25" Plate | 49.17 - 49.92           | 1.0000                | 1.0000             |
| L32           | 44                   | CCI 6.5" x 1.25" Plate | 49.17 - 49.92           | 1.0000                | 1.0000             |
| L32           | 45                   | CCI 6.5" x 1.25" Plate | 49.17 - 49.92           | 1.0000                | 1.0000             |
| L32           | 59                   | CCI 4.5" x 1" Plate    | 49.17 - 54.17           | 1.0000                | 1.0000             |
| L32           | 61                   | CCI 4.5" x 1" Plate    | 49.17 - 54.17           | 1.0000                | 1.0000             |
| L33           | 14                   | MLE HYBRID             | 47.17 - 49.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L33           | 19                   | LDF4-50A(1/2)          | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L33           | 23                   | Safety Line 3/8        | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L33           | 43                   | CCI 6.5" x 1.25" Plate | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L33           | 44                   | CCI 6.5" x 1.25" Plate | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L33           | 45                   | CCI 6.5" x 1.25" Plate | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L33           | 59                   | CCI 4.5" x 1" Plate    | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L33           | 61                   | CCI 4.5" x 1" Plate    | 47.17 - 49.17           | 1.0000                | 1.0000             |
| L34           | 14                   | MLE HYBRID             | 46.92 - 47.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L34           | 19                   | LDF4-50A(1/2)          | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L34           | 23                   | Safety Line 3/8        | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L34           | 43                   | CCI 6.5" x 1.25" Plate | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L34           | 44                   | CCI 6.5" x 1.25" Plate | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L34           | 45                   | CCI 6.5" x 1.25" Plate | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L34           | 59                   | CCI 4.5" x 1" Plate    | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L34           | 61                   | CCI 4.5" x 1" Plate    | 46.92 - 47.17           | 1.0000                | 1.0000             |
| L35           | 14                   | MLE HYBRID             | 43.42 - 46.92           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L35           | 19                   | LDF4-50A(1/2)          | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L35           | 23                   | Safety Line 3/8        | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L35           | 43                   | CCI 6.5" x 1.25" Plate | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L35           | 44                   | CCI 6.5" x 1.25" Plate | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L35           | 45                   | CCI 6.5" x 1.25" Plate | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L35           | 59                   | CCI 4.5" x 1" Plate    | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L35           | 61                   | CCI 4.5" x 1" Plate    | 43.42 - 46.92           | 1.0000                | 1.0000             |
| L36           | 14                   | MLE HYBRID             | 43.17 - 43.42           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L36           | 19                   | LDF4-50A(1/2)          | 43.17 - 43.42           | 1.0000                | 1.0000             |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>24 of 69               |
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Feed Line Record No. | Description            | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|------------------------|-------------------------|-----------------------|--------------------|
| L36           | 23                   | Safety Line 3/8        | 43.17 - 43.42           | 1.0000                | 1.0000             |
| L36           | 43                   | CCI 6.5" x 1.25" Plate | 43.17 - 43.42           | 1.0000                | 1.0000             |
| L36           | 44                   | CCI 6.5" x 1.25" Plate | 43.17 - 43.42           | 1.0000                | 1.0000             |
| L36           | 45                   | CCI 6.5" x 1.25" Plate | 43.17 - 43.42           | 1.0000                | 1.0000             |
| L36           | 59                   | CCI 4.5" x 1" Plate    | 43.17 - 43.42           | 1.0000                | 1.0000             |
| L36           | 61                   | CCI 4.5" x 1" Plate    | 43.17 - 43.42           | 1.0000                | 1.0000             |
| L37           | 14                   | MLE HYBRID             | 38.17 - 43.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L37           | 19                   | LDF4-50A(1/2)          | 38.17 - 43.17           | 1.0000                | 1.0000             |
| L37           | 23                   | Safety Line 3/8        | 38.17 - 43.17           | 1.0000                | 1.0000             |
| L37           | 43                   | CCI 6.5" x 1.25" Plate | 38.17 - 43.17           | 1.0000                | 1.0000             |
| L37           | 44                   | CCI 6.5" x 1.25" Plate | 38.17 - 43.17           | 1.0000                | 1.0000             |
| L37           | 45                   | CCI 6.5" x 1.25" Plate | 38.17 - 43.17           | 1.0000                | 1.0000             |
| L37           | 59                   | CCI 4.5" x 1" Plate    | 41.92 - 43.17           | 1.0000                | 1.0000             |
| L37           | 61                   | CCI 4.5" x 1" Plate    | 41.92 - 43.17           | 1.0000                | 1.0000             |
| L38           | 14                   | MLE HYBRID             | 31.54 - 38.17           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L38           | 19                   | LDF4-50A(1/2)          | 31.54 - 38.17           | 1.0000                | 1.0000             |
| L38           | 23                   | Safety Line 3/8        | 31.54 - 38.17           | 1.0000                | 1.0000             |
| L38           | 43                   | CCI 6.5" x 1.25" Plate | 31.54 - 38.17           | 1.0000                | 1.0000             |
| L38           | 44                   | CCI 6.5" x 1.25" Plate | 31.54 - 38.17           | 1.0000                | 1.0000             |
| L38           | 45                   | CCI 6.5" x 1.25" Plate | 31.54 - 38.17           | 1.0000                | 1.0000             |
| L39           | 14                   | MLE HYBRID             | 30.54 - 31.54           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L39           | 19                   | LDF4-50A(1/2)          | 30.54 - 31.54           | 1.0000                | 1.0000             |
| L39           | 23                   | Safety Line 3/8        | 30.54 - 31.54           | 1.0000                | 1.0000             |
| L39           | 43                   | CCI 6.5" x 1.25" Plate | 30.54 - 31.54           | 1.0000                | 1.0000             |
| L39           | 44                   | CCI 6.5" x 1.25" Plate | 30.54 - 31.54           | 1.0000                | 1.0000             |
| L39           | 45                   | CCI 6.5" x 1.25" Plate | 30.54 - 31.54           | 1.0000                | 1.0000             |
| L40           | 14                   | MLE HYBRID             | 25.54 - 30.54           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L40           | 19                   | LDF4-50A(1/2)          | 25.54 - 30.54           | 1.0000                | 1.0000             |
| L40           | 23                   | Safety Line 3/8        | 25.54 - 30.54           | 1.0000                | 1.0000             |
| L40           | 43                   | CCI 6.5" x 1.25" Plate | 29.92 - 30.54           | 1.0000                | 1.0000             |
| L40           | 44                   | CCI 6.5" x 1.25" Plate | 29.92 - 30.54           | 1.0000                | 1.0000             |
| L40           | 45                   | CCI 6.5" x 1.25" Plate | 29.92 - 30.54           | 1.0000                | 1.0000             |
| L41           | 14                   | MLE HYBRID             | 20.54 - 25.54           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L41           | 19                   | LDF4-50A(1/2)          | 22.00 - 25.54           | 1.0000                | 1.0000             |
| L41           | 20                   | LDF4-50A(1/2)          | 20.54 - 22.00           | 1.0000                | 1.0000             |
| L41           | 23                   | Safety Line 3/8        | 20.54 - 25.54           | 1.0000                | 1.0000             |
| L42           | 14                   | MLE HYBRID             | 15.54 - 20.54           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L42           | 20                   | LDF4-50A(1/2)          | 15.54 - 20.54           | 1.0000                | 1.0000             |
| L42           | 23                   | Safety Line 3/8        | 15.54 - 20.54           | 1.0000                | 1.0000             |
| L43           | 14                   | MLE HYBRID             | 10.54 - 15.54           | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L43           | 20                   | LDF4-50A(1/2)          | 10.54 - 15.54           | 1.0000                | 1.0000             |
| L43           | 23                   | Safety Line 3/8        | 10.54 - 15.54           | 1.0000                | 1.0000             |
| L44           | 14                   | MLE HYBRID             | 5.54 - 10.54            | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL      |                         |                       |                    |
|               |                      | 2(1-5/8)               |                         |                       |                    |
| L44           | 20                   | LDF4-50A(1/2)          | 5.54 - 10.54            | 1.0000                | 1.0000             |
| L44           | 23                   | Safety Line 3/8        | 5.54 - 10.54            | 1.0000                | 1.0000             |
| L45           | 14                   | MLE HYBRID             | 0.54 - 5.54             | 1.0000                | 1.0000             |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>25 of 69               |
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Feed Line Record No. | Description                   | Feed Line Segment Elev. | K <sub>a</sub> No Ice | K <sub>a</sub> Ice |
|---------------|----------------------|-------------------------------|-------------------------|-----------------------|--------------------|
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L45           | 20                   | LDF4-50A(1/2)                 | 0.54 - 5.54             | 1.0000                | 1.0000             |
| L45           | 23                   | Safety Line 3/8               | 0.54 - 5.54             | 1.0000                | 1.0000             |
| L46           | 14                   | MLE HYBRID                    | 0.00 - 0.54             | 1.0000                | 1.0000             |
|               |                      | 9POWER/18FIBER RL<br>2(1-5/8) |                         |                       |                    |
| L46           | 20                   | LDF4-50A(1/2)                 | 0.00 - 0.54             | 1.0000                | 1.0000             |
| L46           | 23                   | Safety Line 3/8               | 0.00 - 0.54             | 1.0000                | 1.0000             |

### Effective Width of Flat Linear Attachments / Feed Lines

| Tower Section | Attachment Record No. | Description            | Attachment Segment Elev. | Ratio Calculation Method | Effective Width Ratio |
|---------------|-----------------------|------------------------|--------------------------|--------------------------|-----------------------|
| L5            | 38                    | 4.5" x 1" Plate        | 125.17 - 125.75          | Auto                     | 0.0000                |
| L5            | 39                    | 4.5" x 1" Plate        | 125.17 - 125.75          | Auto                     | 0.0000                |
| L5            | 40                    | 4.5" x 1" Plate        | 125.17 - 125.75          | Auto                     | 0.0000                |
| L6            | 38                    | 4.5" x 1" Plate        | 123.75 - 125.17          | Auto                     | 0.0000                |
| L6            | 39                    | 4.5" x 1" Plate        | 123.75 - 125.17          | Auto                     | 0.0000                |
| L6            | 40                    | 4.5" x 1" Plate        | 123.75 - 125.17          | Auto                     | 0.0000                |
| L7            | 38                    | 4.5" x 1" Plate        | 123.50 - 123.75          | Auto                     | 0.1337                |
| L7            | 39                    | 4.5" x 1" Plate        | 123.50 - 123.75          | Auto                     | 0.1337                |
| L7            | 40                    | 4.5" x 1" Plate        | 123.50 - 123.75          | Auto                     | 0.1337                |
| L8            | 38                    | 4.5" x 1" Plate        | 118.50 - 123.50          | Auto                     | 0.1019                |
| L8            | 39                    | 4.5" x 1" Plate        | 118.50 - 123.50          | Auto                     | 0.1019                |
| L8            | 40                    | 4.5" x 1" Plate        | 118.50 - 123.50          | Auto                     | 0.1019                |
| L9            | 38                    | 4.5" x 1" Plate        | 113.50 - 118.50          | Auto                     | 0.0480                |
| L9            | 39                    | 4.5" x 1" Plate        | 113.50 - 118.50          | Auto                     | 0.0480                |
| L9            | 40                    | 4.5" x 1" Plate        | 113.50 - 118.50          | Auto                     | 0.0480                |
| L9            | 51                    | CCI 6.5" x 3" Plate    | 113.50 - 117.00          | Auto                     | 0.3361                |
| L9            | 52                    | CCI 6.5" x 3" Plate    | 113.50 - 117.00          | Auto                     | 0.3361                |
| L9            | 53                    | CCI 6.5" x 3" Plate    | 113.50 - 117.00          | Auto                     | 0.3361                |
| L9            | 55                    | CCI 6.5" x 1.25" Plate | 113.50 - 116.92          | Auto                     | 0.3358                |
| L9            | 56                    | CCI 6.5" x 1.25" Plate | 113.50 -                 | Auto                     | 0.3358                |

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|                |  |                    |                   |
|----------------|--|--------------------|-------------------|
| <b>Job</b>     | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b>        | 26 of 69          |
| <b>Project</b> |  | <b>Date</b>        | 18:39:54 09/08/21 |
| <b>Client</b>  | Crown Castle                                 | <b>Designed by</b> | Nithish Acharya   |

| Tower Section | Attachment Record No. | Description            | Attachment Segment Elev.     | Ratio Calculation Method | Effective Width Ratio |
|---------------|-----------------------|------------------------|------------------------------|--------------------------|-----------------------|
| L9            | 57                    | CCI 6.5" x 1.25" Plate | 116.92<br>113.50 -<br>116.92 | Auto                     | 0.3358                |
| L10           | 38                    | 4.5" x 1" Plate        | 112.17 -<br>113.50           | Auto                     | 0.0186                |
| L10           | 39                    | 4.5" x 1" Plate        | 112.17 -<br>113.50           | Auto                     | 0.0186                |
| L10           | 40                    | 4.5" x 1" Plate        | 112.17 -<br>113.50           | Auto                     | 0.0186                |
| L10           | 51                    | CCI 6.5" x 3" Plate    | 112.17 -<br>113.50           | Auto                     | 0.3206                |
| L10           | 52                    | CCI 6.5" x 3" Plate    | 112.17 -<br>113.50           | Auto                     | 0.3206                |
| L10           | 53                    | CCI 6.5" x 3" Plate    | 112.17 -<br>113.50           | Auto                     | 0.3206                |
| L10           | 55                    | CCI 6.5" x 1.25" Plate | 112.17 -<br>113.50           | Auto                     | 0.3206                |
| L10           | 56                    | CCI 6.5" x 1.25" Plate | 112.17 -<br>113.50           | Auto                     | 0.3206                |
| L10           | 57                    | CCI 6.5" x 1.25" Plate | 112.17 -<br>113.50           | Auto                     | 0.3206                |
| L11           | 38                    | 4.5" x 1" Plate        | 111.92 -<br>112.17           | Auto                     | 0.1378                |
| L11           | 39                    | 4.5" x 1" Plate        | 111.92 -<br>112.17           | Auto                     | 0.1378                |
| L11           | 40                    | 4.5" x 1" Plate        | 111.92 -<br>112.17           | Auto                     | 0.1378                |
| L11           | 51                    | CCI 6.5" x 3" Plate    | 111.92 -<br>112.17           | Auto                     | 0.4031                |
| L11           | 52                    | CCI 6.5" x 3" Plate    | 111.92 -<br>112.17           | Auto                     | 0.4031                |
| L11           | 53                    | CCI 6.5" x 3" Plate    | 111.92 -<br>112.17           | Auto                     | 0.4031                |
| L11           | 55                    | CCI 6.5" x 1.25" Plate | 111.92 -<br>112.17           | Auto                     | 0.4031                |
| L11           | 56                    | CCI 6.5" x 1.25" Plate | 111.92 -<br>112.17           | Auto                     | 0.4031                |
| L11           | 57                    | CCI 6.5" x 1.25" Plate | 111.92 -<br>112.17           | Auto                     | 0.4031                |
| L12           | 38                    | 4.5" x 1" Plate        | 110.75 -<br>111.92           | Auto                     | 0.1312                |
| L12           | 39                    | 4.5" x 1" Plate        | 110.75 -<br>111.92           | Auto                     | 0.1312                |
| L12           | 40                    | 4.5" x 1" Plate        | 110.75 -<br>111.92           | Auto                     | 0.1312                |
| L12           | 51                    | CCI 6.5" x 3" Plate    | 110.50 -<br>111.92           | Auto                     | 0.3977                |
| L12           | 52                    | CCI 6.5" x 3" Plate    | 110.50 -<br>111.92           | Auto                     | 0.3977                |
| L12           | 53                    | CCI 6.5" x 3" Plate    | 110.50 -<br>111.92           | Auto                     | 0.3977                |
| L12           | 55                    | CCI 6.5" x 1.25" Plate | 110.17 -<br>111.92           | Auto                     | 0.3966                |
| L12           | 56                    | CCI 6.5" x 1.25" Plate | 110.17 -<br>111.92           | Auto                     | 0.3966                |
| L12           | 57                    | CCI 6.5" x 1.25" Plate | 110.17 -<br>111.92           | Auto                     | 0.3966                |
| L13           | 34                    | 6.5" x 1.25" Plate     | 109.92 -<br>110.00           | Auto                     | 0.3586                |
| L13           | 35                    | 6.5" x 1.25" Plate     | 109.92 -<br>110.00           | Auto                     | 0.3586                |

# tnxTower

**B+T Group**  
1717 S. Boulder, Suite 300  
Tulsa, OK 74119  
Phone: (918) 587-4630  
FAX: (918) 587-4630

**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Attachment Record No. | Description            | Attachment Segment Elev. | Ratio Calculation Method | Effective Width Ratio |
|---------------|-----------------------|------------------------|--------------------------|--------------------------|-----------------------|
| L13           | 36                    | 6.5" x 1.25" Plate     | 109.92 - 110.00          | Auto                     | 0.3586                |
| L13           | 55                    | CCI 6.5" x 1.25" Plate | 109.92 - 110.17          | Auto                     | 0.3592                |
| L13           | 56                    | CCI 6.5" x 1.25" Plate | 109.92 - 110.17          | Auto                     | 0.3592                |
| L13           | 57                    | CCI 6.5" x 1.25" Plate | 109.92 - 110.17          | Auto                     | 0.3592                |
| L14           | 34                    | 6.5" x 1.25" Plate     | 104.92 - 109.92          | Auto                     | 0.3303                |
| L14           | 35                    | 6.5" x 1.25" Plate     | 104.92 - 109.92          | Auto                     | 0.3303                |
| L14           | 36                    | 6.5" x 1.25" Plate     | 104.92 - 109.92          | Auto                     | 0.3303                |
| L14           | 47                    | CCI 6.5" x 3" Plate    | 104.92 - 109.50          | Auto                     | 0.3288                |
| L14           | 48                    | CCI 6.5" x 3" Plate    | 104.92 - 109.50          | Auto                     | 0.3288                |
| L14           | 49                    | CCI 6.5" x 3" Plate    | 104.92 - 109.50          | Auto                     | 0.3288                |
| L14           | 55                    | CCI 6.5" x 1.25" Plate | 104.92 - 109.92          | Auto                     | 0.3303                |
| L14           | 56                    | CCI 6.5" x 1.25" Plate | 104.92 - 109.92          | Auto                     | 0.3303                |
| L14           | 57                    | CCI 6.5" x 1.25" Plate | 104.92 - 109.92          | Auto                     | 0.3303                |
| L15           | 34                    | 6.5" x 1.25" Plate     | 99.92 - 104.92           | Auto                     | 0.2898                |
| L15           | 35                    | 6.5" x 1.25" Plate     | 99.92 - 104.92           | Auto                     | 0.2898                |
| L15           | 36                    | 6.5" x 1.25" Plate     | 99.92 - 104.92           | Auto                     | 0.2898                |
| L15           | 47                    | CCI 6.5" x 3" Plate    | 103.00 - 104.92          | Auto                     | 0.3007                |
| L15           | 48                    | CCI 6.5" x 3" Plate    | 103.00 - 104.92          | Auto                     | 0.3007                |
| L15           | 49                    | CCI 6.5" x 3" Plate    | 103.00 - 104.92          | Auto                     | 0.3007                |
| L15           | 55                    | CCI 6.5" x 1.25" Plate | 103.08 - 104.92          | Auto                     | 0.3010                |
| L15           | 56                    | CCI 6.5" x 1.25" Plate | 103.08 - 104.92          | Auto                     | 0.3010                |
| L15           | 57                    | CCI 6.5" x 1.25" Plate | 103.08 - 104.92          | Auto                     | 0.3010                |
| L16           | 26                    | PL4x1                  | 95.00 - 96.75            | Manual                   | 1.0000                |
| L16           | 27                    | PL4x1                  | 95.00 - 96.75            | Manual                   | 1.0000                |
| L16           | 34                    | 6.5" x 1.25" Plate     | 95.00 - 99.92            | Auto                     | 0.2495                |
| L16           | 35                    | 6.5" x 1.25" Plate     | 95.00 - 99.92            | Auto                     | 0.2495                |
| L16           | 36                    | 6.5" x 1.25" Plate     | 95.00 - 99.92            | Auto                     | 0.2495                |
| L17           | 26                    | PL4x1                  | 94.75 - 95.00            | Manual                   | 1.0000                |
| L17           | 27                    | PL4x1                  | 94.75 - 95.00            | Manual                   | 1.0000                |
| L17           | 34                    | 6.5" x 1.25" Plate     | 94.75 - 95.00            | Auto                     | 0.2827                |
| L17           | 35                    | 6.5" x 1.25" Plate     | 94.75 - 95.00            | Auto                     | 0.2827                |
| L17           | 36                    | 6.5" x 1.25" Plate     | 94.75 - 95.00            | Auto                     | 0.2827                |
| L18           | 26                    | PL4x1                  | 89.75 - 94.75            | Manual                   | 1.0000                |
| L18           | 27                    | PL4x1                  | 89.75 - 94.75            | Manual                   | 1.0000                |
| L18           | 34                    | 6.5" x 1.25" Plate     | 89.75 - 94.75            | Auto                     | 0.2590                |
| L18           | 35                    | 6.5" x 1.25" Plate     | 89.75 - 94.75            | Auto                     | 0.2590                |
| L18           | 36                    | 6.5" x 1.25" Plate     | 89.75 - 94.75            | Auto                     | 0.2590                |
| L19           | 26                    | PL4x1                  | 85.50 - 89.75            | Manual                   | 1.0000                |
| L19           | 27                    | PL4x1                  | 85.50 - 89.75            | Manual                   | 1.0000                |
| L19           | 34                    | 6.5" x 1.25" Plate     | 85.50 - 89.75            | Auto                     | 0.2211                |
| L19           | 35                    | 6.5" x 1.25" Plate     | 85.50 - 89.75            | Auto                     | 0.2211                |
| L19           | 36                    | 6.5" x 1.25" Plate     | 85.50 - 89.75            | Auto                     | 0.2211                |

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**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Attachment Record No. | Description         | Attachment Segment Elev. | Ratio Calculation Method | Effective Width Ratio |
|---------------|-----------------------|---------------------|--------------------------|--------------------------|-----------------------|
| L19           | 59                    | CCI 4.5" x 1" Plate | 85.50 - 87.00            | Auto                     | 0.0000                |
| L19           | 61                    | CCI 4.5" x 1" Plate | 85.50 - 87.00            | Auto                     | 0.0000                |
| L20           | 26                    | PL4x1               | 85.25 - 85.50            | Manual                   | 1.0000                |
| L20           | 27                    | PL4x1               | 85.25 - 85.50            | Manual                   | 1.0000                |
| L20           | 34                    | 6.5" x 1.25" Plate  | 85.25 - 85.50            | Auto                     | 0.2825                |
| L20           | 35                    | 6.5" x 1.25" Plate  | 85.25 - 85.50            | Auto                     | 0.2825                |
| L20           | 36                    | 6.5" x 1.25" Plate  | 85.25 - 85.50            | Auto                     | 0.2825                |
| L20           | 59                    | CCI 4.5" x 1" Plate | 85.25 - 85.50            | Auto                     | 0.0000                |
| L20           | 61                    | CCI 4.5" x 1" Plate | 85.25 - 85.50            | Auto                     | 0.0000                |
| L21           | 26                    | PL4x1               | 85.00 - 85.25            | Manual                   | 1.0000                |
| L21           | 27                    | PL4x1               | 85.00 - 85.25            | Manual                   | 1.0000                |
| L21           | 34                    | 6.5" x 1.25" Plate  | 85.00 - 85.25            | Auto                     | 0.2807                |
| L21           | 35                    | 6.5" x 1.25" Plate  | 85.00 - 85.25            | Auto                     | 0.2807                |
| L21           | 36                    | 6.5" x 1.25" Plate  | 85.00 - 85.25            | Auto                     | 0.2807                |
| L21           | 59                    | CCI 4.5" x 1" Plate | 85.00 - 85.25            | Auto                     | 0.0000                |
| L21           | 61                    | CCI 4.5" x 1" Plate | 85.00 - 85.25            | Auto                     | 0.0000                |
| L22           | 26                    | PL4x1               | 84.75 - 85.00            | Manual                   | 1.0000                |
| L22           | 27                    | PL4x1               | 84.75 - 85.00            | Manual                   | 1.0000                |
| L22           | 30                    | 6" x 1" Plate       | 84.75 - 85.00            | Auto                     | 0.2077                |
| L22           | 31                    | 6" x 1" Plate       | 84.75 - 85.00            | Auto                     | 0.2077                |
| L22           | 32                    | 6" x 1" Plate       | 84.75 - 85.00            | Auto                     | 0.2077                |
| L22           | 36                    | 6.5" x 1.25" Plate  | 84.75 - 85.00            | Auto                     | 0.2686                |
| L22           | 59                    | CCI 4.5" x 1" Plate | 84.75 - 85.00            | Auto                     | 0.0000                |
| L22           | 61                    | CCI 4.5" x 1" Plate | 84.75 - 85.00            | Auto                     | 0.0000                |
| L23           | 26                    | PL4x1               | 83.00 - 84.75            | Manual                   | 1.0000                |
| L23           | 27                    | PL4x1               | 83.00 - 84.75            | Manual                   | 1.0000                |
| L23           | 30                    | 6" x 1" Plate       | 83.00 - 84.75            | Auto                     | 0.2000                |
| L23           | 31                    | 6" x 1" Plate       | 83.00 - 84.75            | Auto                     | 0.2000                |
| L23           | 32                    | 6" x 1" Plate       | 83.00 - 84.75            | Auto                     | 0.2000                |
| L23           | 36                    | 6.5" x 1.25" Plate  | 83.00 - 84.75            | Auto                     | 0.2615                |
| L23           | 59                    | CCI 4.5" x 1" Plate | 83.00 - 84.75            | Auto                     | 0.0000                |
| L23           | 61                    | CCI 4.5" x 1" Plate | 83.00 - 84.75            | Auto                     | 0.0000                |
| L24           | 26                    | PL4x1               | 82.65 - 83.00            | Manual                   | 1.0000                |
| L24           | 27                    | PL4x1               | 82.65 - 83.00            | Manual                   | 1.0000                |
| L24           | 30                    | 6" x 1" Plate       | 82.65 - 83.00            | Auto                     | 0.1361                |
| L24           | 31                    | 6" x 1" Plate       | 82.65 - 83.00            | Auto                     | 0.1361                |
| L24           | 32                    | 6" x 1" Plate       | 82.65 - 83.00            | Auto                     | 0.1361                |
| L24           | 36                    | 6.5" x 1.25" Plate  | 82.65 - 83.00            | Auto                     | 0.2026                |
| L24           | 59                    | CCI 4.5" x 1" Plate | 82.65 - 83.00            | Auto                     | 0.0000                |
| L24           | 61                    | CCI 4.5" x 1" Plate | 82.65 - 83.00            | Auto                     | 0.0000                |
| L25           | 26                    | PL4x1               | 82.42 - 82.65            | Manual                   | 1.0000                |
| L25           | 27                    | PL4x1               | 82.42 - 82.65            | Manual                   | 1.0000                |
| L25           | 30                    | 6" x 1" Plate       | 82.42 - 82.65            | Auto                     | 0.1339                |
| L25           | 31                    | 6" x 1" Plate       | 82.42 - 82.65            | Auto                     | 0.1339                |
| L25           | 32                    | 6" x 1" Plate       | 82.42 - 82.65            | Auto                     | 0.1339                |
| L25           | 36                    | 6.5" x 1.25" Plate  | 82.42 - 82.65            | Auto                     | 0.2005                |
| L25           | 59                    | CCI 4.5" x 1" Plate | 82.42 - 82.65            | Auto                     | 0.0000                |
| L25           | 61                    | CCI 4.5" x 1" Plate | 82.42 - 82.65            | Auto                     | 0.0000                |
| L26           | 26                    | PL4x1               | 77.42 - 82.42            | Manual                   | 1.0000                |
| L26           | 27                    | PL4x1               | 77.42 - 82.42            | Manual                   | 1.0000                |
| L26           | 30                    | 6" x 1" Plate       | 77.42 - 82.42            | Auto                     | 0.1026                |
| L26           | 31                    | 6" x 1" Plate       | 77.42 - 82.42            | Auto                     | 0.1026                |
| L26           | 32                    | 6" x 1" Plate       | 77.42 - 82.42            | Auto                     | 0.1026                |
| L26           | 36                    | 6.5" x 1.25" Plate  | 80.00 - 82.42            | Auto                     | 0.1808                |
| L26           | 59                    | CCI 4.5" x 1" Plate | 77.42 - 82.42            | Auto                     | 0.0000                |
| L26           | 61                    | CCI 4.5" x 1" Plate | 77.42 - 82.42            | Auto                     | 0.0000                |
| L27           | 26                    | PL4x1               | 71.75 - 77.42            | Manual                   | 1.0000                |
| L27           | 27                    | PL4x1               | 71.75 - 77.42            | Manual                   | 1.0000                |
| L27           | 30                    | 6" x 1" Plate       | 70.17 - 77.42            | Auto                     | 0.0556                |
| L27           | 31                    | 6" x 1" Plate       | 70.17 - 77.42            | Auto                     | 0.0556                |
| L27           | 32                    | 6" x 1" Plate       | 70.17 - 77.42            | Auto                     | 0.0556                |



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**Job**  
93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
**Date**  
18:39:54 09/08/21

**Client**  
Crown Castle  
**Designed by**  
Nithish Acharya

| Tower Section | Attachment Record No. | Description            | Attachment Segment Elev. | Ratio Calculation Method | Effective Width Ratio |
|---------------|-----------------------|------------------------|--------------------------|--------------------------|-----------------------|
| L27           | 59                    | CCI 4.5" x 1" Plate    | 70.17 - 77.42            | Auto                     | 0.0000                |
| L27           | 61                    | CCI 4.5" x 1" Plate    | 70.17 - 77.42            | Auto                     | 0.0000                |
| L28           | 30                    | 6" x 1" Plate          | 69.17 - 70.17            | Auto                     | 0.0729                |
| L28           | 31                    | 6" x 1" Plate          | 69.17 - 70.17            | Auto                     | 0.0729                |
| L28           | 32                    | 6" x 1" Plate          | 69.17 - 70.17            | Auto                     | 0.0729                |
| L28           | 59                    | CCI 4.5" x 1" Plate    | 69.17 - 70.17            | Auto                     | 0.0000                |
| L28           | 61                    | CCI 4.5" x 1" Plate    | 69.17 - 70.17            | Auto                     | 0.0000                |
| L29           | 30                    | 6" x 1" Plate          | 64.17 - 69.17            | Auto                     | 0.0475                |
| L29           | 31                    | 6" x 1" Plate          | 64.17 - 69.17            | Auto                     | 0.0475                |
| L29           | 32                    | 6" x 1" Plate          | 64.17 - 69.17            | Auto                     | 0.0475                |
| L29           | 59                    | CCI 4.5" x 1" Plate    | 64.17 - 69.17            | Auto                     | 0.0000                |
| L29           | 61                    | CCI 4.5" x 1" Plate    | 64.17 - 69.17            | Auto                     | 0.0000                |
| L30           | 30                    | 6" x 1" Plate          | 59.17 - 64.17            | Auto                     | 0.0199                |
| L30           | 31                    | 6" x 1" Plate          | 59.17 - 64.17            | Auto                     | 0.0199                |
| L30           | 32                    | 6" x 1" Plate          | 59.17 - 64.17            | Auto                     | 0.0199                |
| L30           | 59                    | CCI 4.5" x 1" Plate    | 59.17 - 64.17            | Auto                     | 0.0000                |
| L30           | 61                    | CCI 4.5" x 1" Plate    | 59.17 - 64.17            | Auto                     | 0.0000                |
| L31           | 30                    | 6" x 1" Plate          | 54.17 - 59.17            | Auto                     | 0.0000                |
| L31           | 31                    | 6" x 1" Plate          | 54.17 - 59.17            | Auto                     | 0.0000                |
| L31           | 32                    | 6" x 1" Plate          | 54.17 - 59.17            | Auto                     | 0.0000                |
| L31           | 59                    | CCI 4.5" x 1" Plate    | 54.17 - 59.17            | Auto                     | 0.0000                |
| L31           | 61                    | CCI 4.5" x 1" Plate    | 54.17 - 59.17            | Auto                     | 0.0000                |
| L32           | 30                    | 6" x 1" Plate          | 50.00 - 54.17            | Auto                     | 0.0000                |
| L32           | 31                    | 6" x 1" Plate          | 50.00 - 54.17            | Auto                     | 0.0000                |
| L32           | 32                    | 6" x 1" Plate          | 50.00 - 54.17            | Auto                     | 0.0000                |
| L32           | 43                    | CCI 6.5" x 1.25" Plate | 49.17 - 49.92            | Auto                     | 0.0109                |
| L32           | 44                    | CCI 6.5" x 1.25" Plate | 49.17 - 49.92            | Auto                     | 0.0109                |
| L32           | 45                    | CCI 6.5" x 1.25" Plate | 49.17 - 49.92            | Auto                     | 0.0109                |
| L32           | 59                    | CCI 4.5" x 1" Plate    | 49.17 - 54.17            | Auto                     | 0.0000                |
| L32           | 61                    | CCI 4.5" x 1" Plate    | 49.17 - 54.17            | Auto                     | 0.0000                |
| L33           | 43                    | CCI 6.5" x 1.25" Plate | 47.17 - 49.17            | Auto                     | 0.0030                |
| L33           | 44                    | CCI 6.5" x 1.25" Plate | 47.17 - 49.17            | Auto                     | 0.0030                |
| L33           | 45                    | CCI 6.5" x 1.25" Plate | 47.17 - 49.17            | Auto                     | 0.0030                |
| L33           | 59                    | CCI 4.5" x 1" Plate    | 47.17 - 49.17            | Auto                     | 0.0000                |
| L33           | 61                    | CCI 4.5" x 1" Plate    | 47.17 - 49.17            | Auto                     | 0.0000                |
| L34           | 43                    | CCI 6.5" x 1.25" Plate | 46.92 - 47.17            | Auto                     | 0.0317                |
| L34           | 44                    | CCI 6.5" x 1.25" Plate | 46.92 - 47.17            | Auto                     | 0.0317                |
| L34           | 45                    | CCI 6.5" x 1.25" Plate | 46.92 - 47.17            | Auto                     | 0.0317                |
| L34           | 59                    | CCI 4.5" x 1" Plate    | 46.92 - 47.17            | Auto                     | 0.0000                |
| L34           | 61                    | CCI 4.5" x 1" Plate    | 46.92 - 47.17            | Auto                     | 0.0000                |
| L35           | 43                    | CCI 6.5" x 1.25" Plate | 43.42 - 46.92            | Auto                     | 0.0151                |
| L35           | 44                    | CCI 6.5" x 1.25" Plate | 43.42 - 46.92            | Auto                     | 0.0151                |
| L35           | 45                    | CCI 6.5" x 1.25" Plate | 43.42 - 46.92            | Auto                     | 0.0151                |
| L35           | 59                    | CCI 4.5" x 1" Plate    | 43.42 - 46.92            | Auto                     | 0.0000                |
| L35           | 61                    | CCI 4.5" x 1" Plate    | 43.42 - 46.92            | Auto                     | 0.0000                |
| L36           | 43                    | CCI 6.5" x 1.25" Plate | 43.17 - 43.42            | Auto                     | 0.0000                |
| L36           | 44                    | CCI 6.5" x 1.25" Plate | 43.17 - 43.42            | Auto                     | 0.0000                |
| L36           | 45                    | CCI 6.5" x 1.25" Plate | 43.17 - 43.42            | Auto                     | 0.0000                |
| L36           | 59                    | CCI 4.5" x 1" Plate    | 43.17 - 43.42            | Auto                     | 0.0000                |
| L36           | 61                    | CCI 4.5" x 1" Plate    | 43.17 - 43.42            | Auto                     | 0.0000                |
| L37           | 43                    | CCI 6.5" x 1.25" Plate | 38.17 - 43.17            | Auto                     | 0.0000                |
| L37           | 44                    | CCI 6.5" x 1.25" Plate | 38.17 - 43.17            | Auto                     | 0.0000                |
| L37           | 45                    | CCI 6.5" x 1.25" Plate | 38.17 - 43.17            | Auto                     | 0.0000                |
| L37           | 59                    | CCI 4.5" x 1" Plate    | 41.92 - 43.17            | Auto                     | 0.0000                |
| L37           | 61                    | CCI 4.5" x 1" Plate    | 41.92 - 43.17            | Auto                     | 0.0000                |
| L38           | 43                    | CCI 6.5" x 1.25" Plate | 31.54 - 38.17            | Auto                     | 0.0000                |
| L38           | 44                    | CCI 6.5" x 1.25" Plate | 31.54 - 38.17            | Auto                     | 0.0000                |
| L38           | 45                    | CCI 6.5" x 1.25" Plate | 31.54 - 38.17            | Auto                     | 0.0000                |
| L39           | 43                    | CCI 6.5" x 1.25" Plate | 30.54 - 31.54            | Auto                     | 0.0000                |
| L39           | 44                    | CCI 6.5" x 1.25" Plate | 30.54 - 31.54            | Auto                     | 0.0000                |
| L39           | 45                    | CCI 6.5" x 1.25" Plate | 30.54 - 31.54            | Auto                     | 0.0000                |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>30 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Tower Section | Attachment Record No. | Description            | Attachment Segment Elev. | Ratio Calculation Method | Effective Width Ratio |
|---------------|-----------------------|------------------------|--------------------------|--------------------------|-----------------------|
| L40           | 43                    | CCI 6.5" x 1.25" Plate | 29.92 - 30.54            | Auto                     | 0.0000                |
| L40           | 44                    | CCI 6.5" x 1.25" Plate | 29.92 - 30.54            | Auto                     | 0.0000                |
| L40           | 45                    | CCI 6.5" x 1.25" Plate | 29.92 - 30.54            | Auto                     | 0.0000                |

### Discrete Tower Loads

| Description               | Face or Leg | Offset Type | Offsets: |              | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |       |
|---------------------------|-------------|-------------|----------|--------------|--------------------|-----------|-----------------------|----------------------|--------|-------|
|                           |             |             | Horz     | Lateral Vert |                    |           |                       |                      |        |       |
|                           |             |             | ft       | ft           | °                  | ft        | ft <sup>2</sup>       | ft <sup>2</sup>      | K      |       |
| Pipe Mount [PM 701-1]     | C           | None        |          |              | 0.000              | 151.000   | No Ice                | 10.610               | 10.610 | 0.278 |
|                           |             |             |          |              |                    |           | 1/2" Ice              | 12.540               | 12.540 | 0.370 |
|                           |             |             |          |              |                    |           | 1" Ice                | 14.470               | 14.470 | 0.462 |
| *                         |             |             |          |              |                    |           |                       |                      |        |       |
| *                         |             |             |          |              |                    |           |                       |                      |        |       |
| OPA65R-BU4B w/ Mount Pipe | A           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 4.000                | 4.240  | 0.076 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 4.410                | 4.660  | 0.125 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 4.840                | 5.090  | 0.182 |
| OPA65R-BU8B w/ Mount Pipe | B           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 8.870                | 7.930  | 0.107 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 9.680                | 8.730  | 0.192 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 10.510               | 9.550  | 0.291 |
| OPA65R-BU4B w/ Mount Pipe | C           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 4.000                | 4.240  | 0.076 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 4.410                | 4.660  | 0.125 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 4.840                | 5.090  | 0.182 |
| SBNHH-1D65A w/ Mount Pipe | A           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 3.040                | 2.450  | 0.054 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 3.340                | 2.750  | 0.104 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 3.650                | 3.050  | 0.162 |
| SBNHH-1D65A w/ Mount Pipe | B           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 3.040                | 2.450  | 0.054 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 3.340                | 2.750  | 0.104 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 3.650                | 3.050  | 0.162 |
| SBNHH-1D65A w/ Mount Pipe | C           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 3.040                | 2.450  | 0.054 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 3.340                | 2.750  | 0.104 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 3.650                | 3.050  | 0.162 |
| QS46512-2 w/ Mount Pipe   | A           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 2.950                | 3.330  | 0.095 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 3.250                | 3.630  | 0.149 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 3.550                | 3.940  | 0.212 |
| QS46512-2 w/ Mount Pipe   | C           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 2.950                | 3.330  | 0.095 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 3.250                | 3.630  | 0.149 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 3.550                | 3.940  | 0.212 |
| 80010799 w/ Mount Pipe    | B           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 9.910                | 6.150  | 0.144 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 10.670               | 6.870  | 0.243 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 11.440               | 7.600  | 0.356 |
| TT19-08BP111-001          | A           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 0.545                | 0.442  | 0.016 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 0.641                | 0.530  | 0.022 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 0.743                | 0.626  | 0.029 |
| TT19-08BP111-001          | B           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 0.545                | 0.442  | 0.016 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 0.641                | 0.530  | 0.022 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 0.743                | 0.626  | 0.029 |
| TT19-08BP111-001          | C           | From Leg    | 4.000    |              | 0.000              | 149.000   | No Ice                | 0.545                | 0.442  | 0.016 |
|                           |             |             | 0.000    |              |                    |           | 1/2" Ice              | 0.641                | 0.530  | 0.022 |
|                           |             |             | 1.000    |              |                    |           | 1" Ice                | 0.743                | 0.626  | 0.029 |

|  |                |  |  |  |                    |  |                   |  |
|--|----------------|--|--|--|--------------------|--|-------------------|--|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>     |  | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) |  | <b>Page</b>        |  | 31 of 69          |  |
|  | <b>Project</b> |  |  |  | <b>Date</b>        |  | 18:39:54 09/08/21 |  |
|  | <b>Client</b>  |  | Crown Castle                                 |  | <b>Designed by</b> |  | Nithish Acharya   |  |

| Description           | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|-----------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|                       |             |             | Horz     | Lateral |                    |           |                       |                      |        |
| (2) DBC0061F1V51-2    | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 0.413                 | 0.433                | 0.025  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 0.496                 | 0.518                | 0.031  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 0.586                 | 0.609                | 0.038  |
| (2) DBC0061F1V51-2    | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 0.413                 | 0.433                | 0.025  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 0.496                 | 0.518                | 0.031  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 0.586                 | 0.609                | 0.038  |
| (2) DBC0061F1V51-2    | C           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 0.413                 | 0.433                | 0.025  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 0.496                 | 0.518                | 0.031  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 0.586                 | 0.609                | 0.038  |
| RADIO 4449 B5 B12_TMO | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.970                 | 1.582                | 0.075  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 2.147                 | 1.744                | 0.095  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 2.331                 | 1.914                | 0.117  |
| RADIO 4449 B5 B12_TMO | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.970                 | 1.582                | 0.075  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 2.147                 | 1.744                | 0.095  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 2.331                 | 1.914                | 0.117  |
| RADIO 4449 B5 B12_TMO | C           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.970                 | 1.582                | 0.075  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 2.147                 | 1.744                | 0.095  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 2.331                 | 1.914                | 0.117  |
| DC6-48-60-18-8C       | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 2.737                 | 2.737                | 0.026  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 2.963                 | 2.963                | 0.052  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.196                 | 3.196                | 0.082  |
| DC6-48-60-18-8C       | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 2.737                 | 2.737                | 0.026  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 2.963                 | 2.963                | 0.052  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.196                 | 3.196                | 0.082  |
| RRUS 32               | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 2.857                 | 1.777                | 0.055  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 3.083                 | 1.968                | 0.077  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.316                 | 2.166                | 0.103  |
| RRUS 32               | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 2.857                 | 1.777                | 0.055  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 3.083                 | 1.968                | 0.077  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.316                 | 2.166                | 0.103  |
| RRUS 32               | C           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 2.857                 | 1.777                | 0.055  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 3.083                 | 1.968                | 0.077  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.316                 | 2.166                | 0.103  |
| RRUS 4426 B66         | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.644                 | 0.725                | 0.048  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 1.804                 | 0.842                | 0.061  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 1.972                 | 0.969                | 0.076  |
| RRUS 4426 B66         | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.644                 | 0.725                | 0.048  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 1.804                 | 0.842                | 0.061  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 1.972                 | 0.969                | 0.076  |
| RRUS 4426 B66         | C           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.644                 | 0.725                | 0.048  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 1.804                 | 0.842                | 0.061  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 1.972                 | 0.969                | 0.076  |
| RRUS E2 B29           | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 3.145                 | 1.285                | 0.060  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 3.365                 | 1.438                | 0.083  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.592                 | 1.600                | 0.110  |
| RRUS E2 B29           | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 3.145                 | 1.285                | 0.060  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 3.365                 | 1.438                | 0.083  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.592                 | 1.600                | 0.110  |
| RRUS E2 B29           | C           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 3.145                 | 1.285                | 0.060  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 3.365                 | 1.438                | 0.083  |
|                       |             |             | 1.000    |         |                    | 1" Ice    | 3.592                 | 1.600                | 0.110  |
| 6' x 2" Mount Pipe    | A           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.425                 | 1.425                | 0.022  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 1.925                 | 1.925                | 0.033  |
|                       |             |             | 0.000    |         |                    | 1" Ice    | 2.294                 | 2.294                | 0.048  |
| 6' x 2" Mount Pipe    | B           | From Leg    | 4.000    | 0.000   | 149.000            | No Ice    | 1.425                 | 1.425                | 0.022  |
|                       |             |             | 0.000    |         |                    | 1/2" Ice  | 1.925                 | 1.925                | 0.033  |
|                       |             |             | 0.000    |         |                    | 1" Ice    | 2.294                 | 2.294                | 0.048  |

|  |  |             |                    |                 |
|--|--|-------------|--------------------|-----------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>                                   | <b>Page</b> |                    |                 |
|  | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) |             | 32 of 69           |                 |
|  | <b>Project</b>                               | <b>Date</b> | 18:39:54 09/08/21  |                 |
| <b>Client</b>  | Crown Castle                                 |             | <b>Designed by</b> | Nithish Acharya |

| Description                        | Face or Leg | Offset Type | Offsets: |       | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |       |
|------------------------------------|-------------|-------------|----------|-------|--------------------|-----------|-----------------------|----------------------|--------|-------|
|                                    |             |             | Horz     | Vert  |                    |           |                       |                      |        |       |
|                                    |             |             | ft       | ft    | °                  | ft        | ft <sup>2</sup>       | ft <sup>2</sup>      | K      |       |
| 6' x 2" Mount Pipe                 | C           | From Leg    | 4.000    | 0.000 | 0.000              | 149.000   | No Ice                | 1.425                | 1.425  | 0.022 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 1.925                | 1.925  | 0.033 |
|                                    |             |             | 0.000    |       |                    |           | 1" Ice                | 2.294                | 2.294  | 0.048 |
| 5' x 2" Pipe Mount                 | A           | From Leg    | 1.000    | 0.000 | 0.000              | 149.000   | No Ice                | 1.188                | 1.188  | 0.018 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 1.496                | 1.496  | 0.027 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 1.807                | 1.807  | 0.040 |
| 5' x 2" Pipe Mount                 | B           | From Leg    | 1.000    | 0.000 | 0.000              | 149.000   | No Ice                | 1.188                | 1.188  | 0.018 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 1.496                | 1.496  | 0.027 |
|                                    |             |             | 0.000    |       |                    |           | 1" Ice                | 1.807                | 1.807  | 0.040 |
| 5' x 2" Pipe Mount                 | C           | From Leg    | 1.000    | 0.000 | 0.000              | 149.000   | No Ice                | 1.188                | 1.188  | 0.018 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 1.496                | 1.496  | 0.027 |
|                                    |             |             | 0.000    |       |                    |           | 1" Ice                | 1.807                | 1.807  | 0.040 |
| Platform Mount [LP 404-1_KCKR]     | C           | None        |          |       | 0.000              | 149.000   | No Ice                | 35.820               | 35.820 | 2.318 |
|                                    |             |             |          |       |                    |           | 1/2" Ice              | 45.850               | 45.850 | 3.016 |
|                                    |             |             |          |       |                    |           | 1" Ice                | 55.760               | 55.760 | 3.886 |
| *                                  |             |             |          |       |                    |           |                       |                      |        |       |
| AIR 21 B2A/B4P w/ Mount Pipe       | A           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 3.140                | 2.580  | 0.103 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 3.450                | 2.880  | 0.154 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 3.760                | 3.180  | 0.214 |
| AIR 21 B2A/B4P w/ Mount Pipe       | B           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 3.140                | 2.580  | 0.103 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 3.450                | 2.880  | 0.154 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 3.760                | 3.180  | 0.214 |
| AIR 21 B2A/B4P w/ Mount Pipe       | C           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 3.140                | 2.580  | 0.103 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 3.450                | 2.880  | 0.154 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 3.760                | 3.180  | 0.214 |
| AIR 21 B4A/B2P w/ Mount Pipe       | A           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 3.140                | 2.580  | 0.103 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 3.450                | 2.880  | 0.154 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 3.760                | 3.180  | 0.214 |
| AIR 21 B4A/B2P w/ Mount Pipe       | B           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 3.140                | 2.580  | 0.103 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 3.450                | 2.880  | 0.154 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 3.760                | 3.180  | 0.214 |
| AIR 21 B4A/B2P w/ Mount Pipe       | C           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 3.140                | 2.580  | 0.103 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 3.450                | 2.880  | 0.154 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 3.760                | 3.180  | 0.214 |
| APXVAALL24_43-U-NA20 w/ Mount Pipe | A           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 14.690               | 6.870  | 0.183 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 15.460               | 7.550  | 0.311 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 16.230               | 8.250  | 0.453 |
| APXVAALL24_43-U-NA20 w/ Mount Pipe | B           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 14.690               | 6.870  | 0.183 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 15.460               | 7.550  | 0.311 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 16.230               | 8.250  | 0.453 |
| APXVAALL24_43-U-NA20 w/ Mount Pipe | C           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 14.690               | 6.870  | 0.183 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 15.460               | 7.550  | 0.311 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 16.230               | 8.250  | 0.453 |
| KRY 112 144/1                      | A           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 0.350                | 0.175  | 0.011 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 0.426                | 0.234  | 0.014 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 0.509                | 0.301  | 0.019 |
| KRY 112 144/1                      | B           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 0.350                | 0.175  | 0.011 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 0.426                | 0.234  | 0.014 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 0.509                | 0.301  | 0.019 |
| KRY 112 144/1                      | C           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 0.350                | 0.175  | 0.011 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 0.426                | 0.234  | 0.014 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 0.509                | 0.301  | 0.019 |
| RADIO 4449 B12/B71                 | A           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 1.650                | 1.163  | 0.074 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 1.810                | 1.301  | 0.090 |
|                                    |             |             | 1.000    |       |                    |           | 1" Ice                | 1.978                | 1.447  | 0.109 |
| RADIO 4449 B12/B71                 | B           | From Leg    | 4.000    | 0.000 | 0.000              | 140.000   | No Ice                | 1.650                | 1.163  | 0.074 |
|                                    |             |             | 0.000    |       |                    |           | 1/2" Ice              | 1.810                | 1.301  | 0.090 |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>33 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Description                      | Face or Leg | Offset Type | Offsets: |      | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |       |
|----------------------------------|-------------|-------------|----------|------|--------------------|-----------|-----------------------|----------------------|--------|-------|
|                                  |             |             | Horz     | Vert |                    |           |                       |                      |        |       |
|                                  |             |             | ft       | ft   | °                  | ft        | ft <sup>2</sup>       | ft <sup>2</sup>      | K      |       |
| RADIO 4449 B12/B71               | C           | From Leg    | 1.000    |      | 0.000              | 140.000   | 1" Ice                | 1.978                | 1.447  | 0.109 |
|                                  |             |             | 4.000    |      |                    |           | No Ice                | 1.650                | 1.163  | 0.074 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 1.810                | 1.301  | 0.090 |
|                                  |             |             | 1.000    |      |                    |           | 1" Ice                | 1.978                | 1.447  | 0.109 |
| Platform Mount [LP 303-1_HR-1]   | C           | None        |          |      | 0.000              | 140.000   | No Ice                | 17.090               | 17.090 | 1.495 |
|                                  |             |             |          |      |                    |           | 1/2" Ice              | 21.470               | 21.470 | 1.881 |
|                                  |             |             |          |      |                    |           | 1" Ice                | 25.720               | 25.720 | 2.346 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| *<br>BXA-80080/4CF w/ Mount Pipe | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 5.037                | 4.033  | 0.033 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.421                | 4.655  | 0.077 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 5.813                | 5.281  | 0.127 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| BXA-80080/4CF w/ Mount Pipe      | B           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 5.037                | 4.033  | 0.033 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.421                | 4.655  | 0.077 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 5.813                | 5.281  | 0.127 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| BXA-80080/4CF w/ Mount Pipe      | C           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 5.037                | 4.033  | 0.033 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.421                | 4.655  | 0.077 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 5.813                | 5.281  | 0.127 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| (2) JAHH-65B-R3B w/ Mount Pipe   | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 5.500                | 4.380  | 0.096 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.970                | 4.840  | 0.169 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 6.450                | 5.300  | 0.254 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| (2) JAHH-45B-R3B w/ Mount Pipe   | B           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 8.260                | 4.390  | 0.123 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 8.830                | 4.910  | 0.201 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 9.410                | 5.430  | 0.290 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| (2) JAHH-65B-R3B w/ Mount Pipe   | C           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 5.500                | 4.380  | 0.096 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.970                | 4.840  | 0.169 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 6.450                | 5.300  | 0.254 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| MT6407-77A w/ Mount Pipe         | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 4.907                | 2.682  | 0.096 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.256                | 3.145  | 0.136 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 5.615                | 3.624  | 0.180 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| MT6407-77A w/ Mount Pipe         | B           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 4.907                | 2.682  | 0.096 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.256                | 3.145  | 0.136 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 5.615                | 3.624  | 0.180 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| MT6407-77A w/ Mount Pipe         | C           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 4.907                | 2.682  | 0.096 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 5.256                | 3.145  | 0.136 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 5.615                | 3.624  | 0.180 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| CBC78T-DS-43-2X                  | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 0.368                | 0.512  | 0.021 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 0.446                | 0.605  | 0.027 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 0.531                | 0.705  | 0.035 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| CBC78T-DS-43-2X                  | B           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 0.368                | 0.512  | 0.021 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 0.446                | 0.605  | 0.027 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 0.531                | 0.705  | 0.035 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| CBC78T-DS-43-2X                  | C           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 0.368                | 0.512  | 0.021 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 0.446                | 0.605  | 0.027 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 0.531                | 0.705  | 0.035 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| RF4440D-13A                      | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 1.865                | 1.129  | 0.073 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 2.035                | 1.267  | 0.090 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 2.212                | 1.411  | 0.110 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| RF4440D-13A                      | B           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 1.865                | 1.129  | 0.073 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 2.035                | 1.267  | 0.090 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 2.212                | 1.411  | 0.110 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| RF4440D-13A                      | C           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 1.865                | 1.129  | 0.073 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 2.035                | 1.267  | 0.090 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 2.212                | 1.411  | 0.110 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| RVZDC-6627-PF-48                 | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 3.792                | 2.514  | 0.032 |
|                                  |             |             | 0.000    |      |                    |           | 1/2" Ice              | 4.044                | 2.727  | 0.063 |
|                                  |             |             | 3.000    |      |                    |           | 1" Ice                | 4.303                | 2.947  | 0.099 |
|                                  |             |             |          |      |                    |           |                       |                      |        |       |
| RF4439D-25A                      | A           | From Leg    | 4.000    |      | 0.000              | 130.000   | No Ice                | 1.865                | 1.252  | 0.075 |

|  |                |  |  |  |                    |  |                   |  |
|--|----------------|--|--|--|--------------------|--|-------------------|--|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>     |  | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) |  | <b>Page</b>        |  | 34 of 69          |  |
|  | <b>Project</b> |  |  |  | <b>Date</b>        |  | 18:39:54 09/08/21 |  |
|  | <b>Client</b>  |  | Crown Castle                                 |  | <b>Designed by</b> |  | Nithish Acharya   |  |

| Description                        | Face or Leg | Offset Type | Offsets: |         | Azimuth Adjustment | Placement | C <sub>AA</sub> Front | C <sub>AA</sub> Side | Weight |
|------------------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
|                                    |             |             | Horz     | Lateral |                    |           |                       |                      |        |
|                                    |             |             | 0.000    |         |                    |           |                       |                      |        |
|                                    |             |             | 3.000    |         |                    |           |                       |                      |        |
| RF4439D-25A                        | B           | From Leg    | 4.000    | 0.000   | 130.000            | 1/2" Ice  | 2.035                 | 1.394                | 0.093  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 2.212                 | 1.544                | 0.114  |
|                                    |             |             | 3.000    |         |                    | No Ice    | 1.865                 | 1.252                | 0.075  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 2.035                 | 1.394                | 0.093  |
| RF4439D-25A                        | C           | From Leg    | 4.000    | 0.000   | 130.000            | 1" Ice    | 2.212                 | 1.544                | 0.114  |
|                                    |             |             | 0.000    |         |                    | No Ice    | 1.865                 | 1.252                | 0.075  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 2.035                 | 1.394                | 0.093  |
|                                    |             |             | 3.000    |         |                    | 1" Ice    | 2.212                 | 1.544                | 0.114  |
| Side Arm Mount [SO 102-3]          | C           | None        |          | 0.000   | 130.000            | No Ice    | 3.600                 | 3.600                | 0.075  |
|                                    |             |             |          |         |                    | 1/2" Ice  | 4.180                 | 4.180                | 0.105  |
|                                    |             |             |          |         |                    | 1" Ice    | 4.750                 | 4.750                | 0.135  |
| Platform Mount [LP 403-1]          | C           | None        |          | 0.000   | 130.000            | No Ice    | 18.940                | 18.940               | 1.500  |
|                                    |             |             |          |         |                    | 1/2" Ice  | 23.310                | 23.310               | 1.902  |
|                                    |             |             |          |         |                    | 1" Ice    | 27.740                | 27.740               | 2.374  |
| Mount Reinforcement Specifications | C           | None        |          | 0.000   | 130.000            | No Ice    | 28.630                | 28.630               | 0.280  |
|                                    |             |             |          |         |                    | 1/2" Ice  | 37.310                | 37.310               | 0.670  |
|                                    |             |             |          |         |                    | 1" Ice    | 45.800                | 45.800               | 0.940  |
| *                                  |             |             |          |         |                    |           |                       |                      |        |
| GPS (3"x7")                        | C           | From Leg    | 4.000    | 0.000   | 134.000            | No Ice    | 0.175                 | 0.175                | 0.008  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 0.234                 | 0.234                | 0.010  |
|                                    |             |             | 4.000    |         |                    | 1" Ice    | 0.301                 | 0.301                | 0.013  |
| *                                  |             |             |          |         |                    |           |                       |                      |        |
| FMO                                | B           | From Leg    | 4.000    | 0.000   | 71.000             | No Ice    | 8.400                 | 8.400                | 0.010  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 8.815                 | 8.815                | 0.181  |
|                                    |             |             | 1.000    |         |                    | 1" Ice    | 9.237                 | 9.237                | 0.361  |
| 10' x 2" Mount Pipe                | B           | From Leg    | 4.000    | 0.000   | 71.000             | No Ice    | 2.375                 | 2.375                | 0.037  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 3.403                 | 3.403                | 0.054  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 4.448                 | 4.448                | 0.079  |
| 6' x 2" Mount Pipe                 | B           | From Leg    | 1.000    | 0.000   | 71.000             | No Ice    | 1.425                 | 1.425                | 0.022  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 1.925                 | 1.925                | 0.033  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 2.294                 | 2.294                | 0.048  |
| Side Arm Mount [SO 305-1]          | B           | From Leg    | 2.000    | 0.000   | 71.000             | No Ice    | 0.530                 | 1.520                | 0.030  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 0.780                 | 2.070                | 0.044  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 1.060                 | 2.660                | 0.064  |
| FMO                                | C           | From Leg    | 4.000    | 0.000   | 71.000             | No Ice    | 8.400                 | 8.400                | 0.010  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 8.815                 | 8.815                | 0.181  |
|                                    |             |             | 1.000    |         |                    | 1" Ice    | 9.237                 | 9.237                | 0.361  |
| 10' x 2" Mount Pipe                | C           | From Leg    | 4.000    | 0.000   | 71.000             | No Ice    | 2.375                 | 2.375                | 0.037  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 3.403                 | 3.403                | 0.054  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 4.448                 | 4.448                | 0.079  |
| 6' x 2" Mount Pipe                 | C           | From Leg    | 1.000    | 0.000   | 71.000             | No Ice    | 1.425                 | 1.425                | 0.022  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 1.925                 | 1.925                | 0.033  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 2.294                 | 2.294                | 0.048  |
| Side Arm Mount [SO 305-1]          | C           | From Leg    | 2.000    | 0.000   | 71.000             | No Ice    | 0.530                 | 1.520                | 0.030  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 0.780                 | 2.070                | 0.044  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 1.060                 | 2.660                | 0.064  |
| *                                  |             |             |          |         |                    |           |                       |                      |        |
| *                                  |             |             |          |         |                    |           |                       |                      |        |
| MYA-43012N                         | C           | From Leg    | 3.000    | 0.000   | 22.000             | No Ice    | 0.620                 | 0.620                | 0.005  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 1.116                 | 1.116                | 0.006  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 1.612                 | 1.612                | 0.008  |
| 4' x 2" Pipe Mount                 | C           | From Leg    | 3.000    | 0.000   | 22.000             | No Ice    | 0.785                 | 0.785                | 0.029  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 1.028                 | 1.028                | 0.035  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 1.281                 | 1.281                | 0.044  |
| Side Arm Mount [SO 701-1]          | C           | From Leg    | 1.500    | 0.000   | 22.000             | No Ice    | 0.850                 | 1.670                | 0.065  |
|                                    |             |             | 0.000    |         |                    | 1/2" Ice  | 1.140                 | 2.340                | 0.079  |
|                                    |             |             | 0.000    |         |                    | 1" Ice    | 1.430                 | 3.010                | 0.093  |

|  |  |                                       |
|--|--|---------------------------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>35 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Description | Face<br>or<br>Leg | Offset<br>Type | Offsets:<br>Horz<br>Lateral<br>Vert<br>ft<br>ft<br>ft | Azimuth<br>Adjustment<br>° | Placement<br>ft | C <sub>AA</sub><br>Front<br>ft <sup>2</sup> | C <sub>AA</sub><br>Side<br>ft <sup>2</sup> | Weight<br>K |
|-------------|-------------------|----------------|---|----------------------------|-----------------|---|--|-------------|
| *           |                   |                |   |                            |                 |   |  |             |
| *           |                   |                |   |                            |                 |   |  |             |

### Load Combinations

| Comb.<br>No. | Description  |
|--------------|--|
| 1            | Dead Only  |
| 2            | 1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy           |
| 3            | 1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy          |
| 4            | 1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy          |
| 5            | 1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy          |
| 6            | 1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy         |
| 7            | 1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy         |
| 8            | 1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy         |
| 9            | 1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy         |
| 10           | 1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy         |
| 11           | 1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy         |
| 12           | 1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy         |
| 13           | 1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy         |
| 14           | 1.2 Dead+1.0 Ice+1.0 Temp+Guy                      |
| 15           | 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy   |
| 16           | 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy  |
| 17           | 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy  |
| 18           | 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy  |
| 19           | 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 20           | 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 21           | 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 22           | 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 23           | 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 24           | 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 25           | 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 26           | 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 27           | Dead+Wind 0 deg - Service+Guy                      |
| 28           | Dead+Wind 30 deg - Service+Guy                     |
| 29           | Dead+Wind 60 deg - Service+Guy                     |
| 30           | Dead+Wind 90 deg - Service+Guy                     |
| 31           | Dead+Wind 120 deg - Service+Guy                    |
| 32           | Dead+Wind 150 deg - Service+Guy                    |
| 33           | Dead+Wind 180 deg - Service+Guy                    |
| 34           | Dead+Wind 210 deg - Service+Guy                    |
| 35           | Dead+Wind 240 deg - Service+Guy                    |
| 36           | Dead+Wind 270 deg - Service+Guy                    |
| 37           | Dead+Wind 300 deg - Service+Guy                    |
| 38           | Dead+Wind 330 deg - Service+Guy                    |

### Maximum Member Forces

|  |                |  |                    |                   |
|--|----------------|--|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>     | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b>        | 36 of 69          |
|  | <b>Project</b> |  | <b>Date</b>        | 18:39:54 09/08/21 |
|  | <b>Client</b>  | Crown Castle                                 | <b>Designed by</b> | Nithish Acharya   |

| Section No. | Elevation ft      | Component Type | Condition        | Gov. Load Comb. | Axial K | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|-------------------|----------------|------------------|-----------------|---------|--------------------------|--------------------------|
| L1          | 150.167 - 145.167 | Pole           | Max Tension      | 4               | 0.000   | -0.001                   | -0.000                   |
|             |                   |                | Max. Compression | 14              | -9.484  | -1.482                   | -0.476                   |
|             |                   |                | Max. Mx          | 5               | -4.910  | -27.458                  | -0.957                   |
|             |                   |                | Max. My          | 8               | -5.142  | -0.916                   | -25.902                  |
|             |                   |                | Max. Vy          | 5               | 6.132   | -27.458                  | -0.957                   |
|             |                   |                | Max. Vx          | 8               | 5.844   | -0.916                   | -25.902                  |
|             |                   |                | Max. Torque      | 2               |         |                          | -1.473                   |
| L2          | 145.167 - 140.167 | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -9.930  | -1.558                   | -0.548                   |
|             |                   |                | Max. Mx          | 5               | -5.215  | -58.911                  | -1.954                   |
|             |                   |                | Max. My          | 8               | -5.457  | -1.483                   | -55.892                  |
|             |                   |                | Max. Vy          | 5               | 6.453   | -58.911                  | -1.954                   |
|             |                   |                | Max. Vx          | 8               | 6.154   | -1.483                   | -55.892                  |
|             |                   |                | Max. Torque      | 2               |         |                          | -1.472                   |
| L3          | 140.167 - 135.167 | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -16.420 | -1.588                   | -0.609                   |
|             |                   |                | Max. Mx          | 5               | -8.780  | -108.345                 | -3.267                   |
|             |                   |                | Max. My          | 8               | -9.135  | -2.067                   | -103.432                 |
|             |                   |                | Max. Vy          | 5               | 9.786   | -108.345                 | -3.267                   |
|             |                   |                | Max. Vx          | 8               | 9.425   | -2.067                   | -103.432                 |
|             |                   |                | Max. Torque      | 2               |         |                          | -1.472                   |
| L4          | 135.167 - 130.167 | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -17.036 | -1.551                   | -0.705                   |
|             |                   |                | Max. Mx          | 5               | -9.223  | -158.006                 | -4.636                   |
|             |                   |                | Max. My          | 8               | -9.581  | -2.611                   | -151.508                 |
|             |                   |                | Max. Vy          | 5               | 10.107  | -158.006                 | -4.636                   |
|             |                   |                | Max. Vx          | 8               | 9.801   | -2.611                   | -151.508                 |
|             |                   |                | Max. Torque      | 2               |         |                          | -1.472                   |
| L5          | 130.167 - 125.167 | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -25.216 | -1.966                   | -0.606                   |
|             |                   |                | Max. Mx          | 5               | -13.334 | -241.023                 | -7.056                   |
|             |                   |                | Max. My          | 8               | -13.881 | -4.159                   | -231.763                 |
|             |                   |                | Max. Vy          | 5               | 15.452  | -241.023                 | -7.056                   |
|             |                   |                | Max. Vx          | 8               | 14.964  | -4.159                   | -231.763                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.445                    |
| L6          | 125.167 - 123.75  | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -25.451 | -1.984                   | -0.663                   |
|             |                   |                | Max. Mx          | 5               | -13.492 | -262.959                 | -7.679                   |
|             |                   |                | Max. My          | 8               | -14.042 | -4.456                   | -253.022                 |
|             |                   |                | Max. Vy          | 5               | 15.558  | -262.959                 | -7.679                   |
|             |                   |                | Max. Vx          | 8               | 15.065  | -4.456                   | -253.022                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.443                    |
| L7          | 123.75 - 123.5    | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -25.506 | -1.988                   | -0.673                   |
|             |                   |                | Max. Mx          | 5               | -13.549 | -266.846                 | -7.805                   |
|             |                   |                | Max. My          | 8               | -14.099 | -4.508                   | -256.786                 |
|             |                   |                | Max. Vy          | 5               | 15.582  | -266.846                 | -7.805                   |
|             |                   |                | Max. Vx          | 8               | 15.064  | -4.508                   | -256.786                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.443                    |
| L8          | 123.5 - 118.5     | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -26.615 | -2.052                   | -0.879                   |
|             |                   |                | Max. Mx          | 5               | -14.350 | -345.680                 | -10.031                  |
|             |                   |                | Max. My          | 8               | -14.913 | -5.555                   | -333.127                 |
|             |                   |                | Max. Vy          | 5               | 16.002  | -345.680                 | -10.031                  |
|             |                   |                | Max. Vx          | 8               | 15.472  | -5.555                   | -333.127                 |
|             |                   |                |                  |                 |         |                          |                          |



|  |                |  |                    |                   |
|--|----------------|--|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>     | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b>        | 37 of 69          |
|  | <b>Project</b> |  | <b>Date</b>        | 18:39:54 09/08/21 |
|  | <b>Client</b>  | Crown Castle                                 | <b>Designed by</b> | Nithish Acharya   |

| Section No. | Elevation ft      | Component Type | Condition        | Gov. Load Comb. | Axial K | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|-------------------|----------------|------------------|-----------------|---------|--------------------------|--------------------------|
| L9          | 118.5 - 113.5     | Pole           | Max. Torque      | 8               |         |                          | 1.443                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -29.014 | -2.119                   | -1.095                   |
|             |                   |                | Max. Mx          | 5               | -16.277 | -427.353                 | -12.370                  |
|             |                   |                | Max. My          | 8               | -16.860 | -6.612                   | -412.038                 |
|             |                   |                | Max. Vy          | 5               | 16.708  | -427.353                 | -12.370                  |
|             |                   |                | Max. Vx          | 8               | 16.105  | -6.612                   | -412.038                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.441                    |
| L10         | 113.5 - 112.167   | Pole           | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -29.807 | -2.139                   | -1.155                   |
|             |                   |                | Max. Mx          | 5               | -16.921 | -449.733                 | -13.020                  |
|             |                   |                | Max. My          | 8               | -17.511 | -6.896                   | -433.618                 |
|             |                   |                | Max. Vy          | 5               | 16.919  | -449.733                 | -13.020                  |
|             |                   |                | Max. Vx          | 8               | 16.292  | -6.896                   | -433.618                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.427                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
| L11         | 112.167 - 111.917 | Pole           | Max. Compression | 14              | -29.967 | -2.143                   | -1.167                   |
|             |                   |                | Max. Mx          | 5               | -17.064 | -453.965                 | -13.165                  |
|             |                   |                | Max. My          | 8               | -17.655 | -6.950                   | -437.692                 |
|             |                   |                | Max. Vy          | 5               | 16.976  | -453.965                 | -13.165                  |
|             |                   |                | Max. Vx          | 8               | 16.310  | -6.950                   | -437.692                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.424                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -30.995 | -2.169                   | -1.248                   |
| L12         | 111.917 - 110.167 | Pole           | Max. Mx          | 5               | -17.901 | -483.838                 | -14.025                  |
|             |                   |                | Max. My          | 8               | -18.501 | -7.327                   | -466.461                 |
|             |                   |                | Max. Vy          | 5               | 17.235  | -483.838                 | -14.025                  |
|             |                   |                | Max. Vx          | 8               | 16.572  | -7.327                   | -466.461                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.423                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -31.096 | -2.174                   | -1.260                   |
|             |                   |                | Max. Mx          | 5               | -17.995 | -488.147                 | -14.171                  |
| L13         | 110.167 - 109.917 | Pole           | Max. My          | 8               | -18.595 | -7.381                   | -470.603                 |
|             |                   |                | Max. Vy          | 5               | 17.279  | -488.147                 | -14.171                  |
|             |                   |                | Max. Vx          | 8               | 16.576  | -7.381                   | -470.603                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.418                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -34.256 | -2.253                   | -1.405                   |
|             |                   |                | Max. Mx          | 5               | -20.647 | -576.157                 | -16.773                  |
|             |                   |                | Max. My          | 8               | -21.265 | -8.476                   | -555.226                 |
| L14         | 109.917 - 104.917 | Pole           | Max. Vy          | 5               | 17.989  | -576.157                 | -16.773                  |
|             |                   |                | Max. Vx          | 8               | 17.291  | -8.476                   | -555.226                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.418                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -36.397 | -2.342                   | -1.558                   |
|             |                   |                | Max. Mx          | 5               | -22.448 | -667.183                 | -19.556                  |
|             |                   |                | Max. My          | 8               | -23.073 | -9.587                   | -642.980                 |
|             |                   |                | Max. Vy          | 5               | 18.472  | -667.183                 | -19.556                  |
| L15         | 104.917 - 99.917  | Pole           | Max. Vx          | 8               | 17.847  | -9.587                   | -642.980                 |
|             |                   |                | Max. Torque      | 8               |         |                          | 1.394                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -37.861 | -2.434                   | -1.706                   |
|             |                   |                | Max. Mx          | 5               | -23.657 | -758.663                 | -22.389                  |
|             |                   |                | Max. My          | 8               | -24.288 | -10.686                  | -731.518                 |
|             |                   |                | Max. Vy          | 5               | 18.796  | -758.663                 | -22.389                  |
|             |                   |                | Max. Vx          | 8               | 18.796  | -758.663                 | -22.389                  |
| L16         | 99.917 - 95       | Pole           | Max. Torque      | 8               |         |                          | 1.394                    |
|             |                   |                | Max Tension      | 1               | 0.000   | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 14              | -37.861 | -2.434                   | -1.706                   |
|             |                   |                | Max. Mx          | 5               | -23.657 | -758.663                 | -22.389                  |
|             |                   |                | Max. My          | 8               | -24.288 | -10.686                  | -731.518                 |

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>38 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation ft   | Component Type | Condition        | Gov. Load Comb. | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|----------------|----------------|------------------|-----------------|----------|--------------------------|--------------------------|
| L17         | 95 - 94.75     | Pole           | Max. Vx          | 8               | 18.209   | -10.686                  | -731.518                 |
|             |                |                | Max. Torque      | 2               |          |                          | -1.368                   |
|             |                |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                |                | Max. Compression | 14              | -37.946  | -2.440                   | -1.714                   |
|             |                |                | Max. Mx          | 5               | -23.738  | -763.361                 | -22.554                  |
|             |                |                | Max. My          | 8               | -24.369  | -10.742                  | -736.066                 |
|             |                |                | Max. Vy          | 5               | 18.839   | -763.361                 | -22.554                  |
| L18         | 94.75 - 89.75  | Pole           | Max. Vx          | 8               | 18.209   | -10.742                  | -736.066                 |
|             |                |                | Max. Torque      | 2               |          |                          | -1.366                   |
|             |                |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                |                | Max. Compression | 14              | -39.648  | -2.540                   | -1.852                   |
|             |                |                | Max. Mx          | 5               | -25.125  | -858.432                 | -25.504                  |
|             |                |                | Max. My          | 8               | -25.768  | -11.862                  | -828.156                 |
|             |                |                | Max. Vy          | 5               | 19.271   | -858.432                 | -25.504                  |
| L19         | 89.75 - 85.5   | Pole           | Max. Vx          | 8               | 18.649   | -11.862                  | -828.156                 |
|             |                |                | Max. Torque      | 2               |          |                          | -1.366                   |
|             |                |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                |                | Max. Compression | 6               | -237.225 | -756.566                 | -338.962                 |
|             |                |                | Max. Mx          | 5               | -25.422  | -878.928                 | -26.145                  |
|             |                |                | Max. My          | 8               | -26.069  | -12.100                  | -847.997                 |
|             |                |                | Max. Vy          | 5               | 19.367   | -878.928                 | -26.145                  |
|             |                | Guy A          | Max. Vx          | 8               | 18.738   | -12.100                  | -847.997                 |
|             |                |                | Max. Torque      | 7               |          |                          | 3.804                    |
|             |                |                | Bottom Tension   | 7               | 153.285  |                          |                          |
|             |                |                | Top Tension      | 7               | 153.765  |                          |                          |
|             |                |                | Top Cable Vert   | 7               | 149.780  |                          |                          |
|             |                |                | Top Cable Norm   | 7               | 34.607   |                          |                          |
|             |                |                | Top Cable Tan    | 7               | 3.443    |                          |                          |
|             |                | Guy B          | Bot Cable Vert   | 7               | -149.196 |                          |                          |
|             |                |                | Bot Cable Norm   | 7               | 34.978   |                          |                          |
|             |                |                | Bot Cable Tan    | 7               | 3.667    |                          |                          |
|             |                |                | Bottom Tension   | 11              | 84.263   |                          |                          |
|             |                |                | Top Tension      | 11              | 84.611   |                          |                          |
|             |                |                | Top Cable Vert   | 11              | 76.608   |                          |                          |
|             |                |                | Top Cable Norm   | 11              | 35.917   |                          |                          |
| Guy C       | Top Cable Tan  | 11             | 0.487            |                 |          |                          |                          |
|             | Bot Cable Vert | 11             | -76.091          |                 |          |                          |                          |
|             | Bot Cable Norm | 11             | 36.193           |                 |          |                          |                          |
|             | Bot Cable Tan  | 11             | 0.681            |                 |          |                          |                          |
|             | Bottom Tension | 4              | 94.891           |                 |          |                          |                          |
|             | Top Tension    | 4              | 95.237           |                 |          |                          |                          |
|             | Top Cable Vert | 4              | 86.352           |                 |          |                          |                          |
| L20         | 85.5 - 85.25   | Pole           | Top Cable Norm   | 4               | 40.139   |                          |                          |
|             |                |                | Top Cable Tan    | 4               | 1.523    |                          |                          |
|             |                |                | Bot Cable Vert   | 4               | -85.836  |                          |                          |
|             |                |                | Bot Cable Norm   | 4               | 40.417   |                          |                          |
|             |                |                | Bot Cable Tan    | 4               | 1.712    |                          |                          |
|             |                |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                |                | Max. Compression | 6               | -237.307 | -758.869                 | -339.885                 |
| L21         | 85.25 - 85     | Pole           | Max. Mx          | 5               | -234.594 | -857.587                 | -0.933                   |
|             |                |                | Max. My          | 2               | -135.915 | 4.797                    | 723.125                  |
|             |                |                | Max. Vy          | 12              | 9.783    | 625.542                  | 367.006                  |
|             |                |                | Max. Vx          | 2               | 12.666   | 4.797                    | 723.125                  |
|             |                |                | Max. Torque      | 7               |          |                          | 3.800                    |
|             |                |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                |                | Max. Compression | 6               | -237.385 | -761.163                 | -340.796                 |
|             |                |                | Max. Mx          | 5               | -234.672 | -859.283                 | -2.990                   |
|             |                |                | Max. My          | 2               | -135.990 | 4.638                    | 719.962                  |
|             |                |                | Max. Vy          | 12              | 9.779    | 623.102                  | 365.294                  |
|             |                |                | Max. Vx          | 2               | 12.662   | 4.638                    | 719.962                  |
|             |                |                | Max. Torque      | 7               |          |                          | 3.800                    |

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>39 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation ft      | Component Type | Condition        | Gov. Load Comb. | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|-------------------|----------------|------------------|-----------------|----------|--------------------------|--------------------------|
| L22         | 85 - 84.75        | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -237.458 | -763.454                 | -341.706                 |
|             |                   |                | Max. Mx          | 5               | -234.745 | -860.976                 | -5.046                   |
|             |                   |                | Max. My          | 2               | -136.066 | 4.478                    | 716.799                  |
|             |                   |                | Max. Vy          | 12              | 9.775    | 620.664                  | 363.583                  |
|             |                   |                | Max. Vx          | 2               | 12.659   | 4.478                    | 716.799                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 3.800                    |
| L23         | 84.75 - 83        | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -237.969 | -779.363                 | -348.027                 |
|             |                   |                | Max. Mx          | 5               | -235.252 | -872.717                 | -19.429                  |
|             |                   |                | Max. My          | 2               | -136.131 | 4.316                    | 713.638                  |
|             |                   |                | Max. Vy          | 12              | 9.826    | 618.226                  | 361.872                  |
|             |                   |                | Max. Vx          | 2               | 12.725   | 4.316                    | 713.638                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 3.802                    |
| L24         | 83 - 82.65        | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -238.075 | -782.521                 | -349.291                 |
|             |                   |                | Max. Mx          | 5               | -235.356 | -875.046                 | -22.322                  |
|             |                   |                | Max. My          | 2               | -136.634 | 3.196                    | 691.530                  |
|             |                   |                | Max. Vy          | 12              | 9.744    | 601.193                  | 349.912                  |
|             |                   |                | Max. Vx          | 2               | 12.640   | 3.196                    | 691.530                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 3.798                    |
| L25         | 82.65 - 82.4167   | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -238.143 | -784.619                 | -350.131                 |
|             |                   |                | Max. Mx          | 5               | -235.423 | -876.592                 | -24.252                  |
|             |                   |                | Max. My          | 2               | -136.731 | 2.972                    | 687.113                  |
|             |                   |                | Max. Vy          | 12              | 9.742    | 597.792                  | 347.522                  |
|             |                   |                | Max. Vx          | 2               | 12.628   | 2.972                    | 687.113                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 3.798                    |
| L26         | 82.4167 - 77.4167 | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -239.584 | -828.194                 | -367.552                 |
|             |                   |                | Max. Mx          | 5               | -236.856 | -908.207                 | -65.353                  |
|             |                   |                | Max. My          | 2               | -136.792 | 2.821                    | 684.170                  |
|             |                   |                | Max. Vy          | 12              | 9.795    | 556.575                  | 318.570                  |
|             |                   |                | Max. Vx          | 2               | 12.671   | 2.821                    | 684.170                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 3.799                    |
| L27         | 77.4167 - 70.167  | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -240.656 | -858.611                 | -379.796                 |
|             |                   |                | Max. Mx          | 5               | -237.923 | -929.768                 | -95.399                  |
|             |                   |                | Max. My          | 8               | -166.189 | -21.738                  | -631.895                 |
|             |                   |                | Max. Vy          | 12              | 9.800    | 546.831                  | 311.725                  |
|             |                   |                | Max. Vx          | 2               | 12.625   | -0.395                   | 621.164                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 3.796                    |
| L28         | 70.167 - 69.167   | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -243.053 | -897.873                 | -396.478                 |
|             |                   |                | Max. Mx          | 5               | -240.322 | -958.304                 | -133.132                 |
|             |                   |                | Max. My          | 8               | -169.371 | -27.145                  | -585.873                 |
|             |                   |                | Max. Vy          | 6               | 8.969    | -897.873                 | -396.478                 |
|             |                   |                | Max. Vx          | 2               | 11.347   | -5.071                   | 531.750                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.655                    |
| L29         | 69.167 - 64.167   | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -244.487 | -940.985                 | -414.950                 |
|             |                   |                | Max. Mx          | 5               | -241.749 | -990.057                 | -173.536                 |
|             |                   |                | Max. My          | 8               | -169.649 | -27.886                  | -580.404                 |
|             |                   |                | Max. Vy          | 6               | 8.873    | -906.687                 | -400.238                 |
|             |                   |                | Max. Vx          | 2               | 11.320   | -5.717                   | 520.455                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.655                    |

|  |                |  |                    |                   |
|--|----------------|--|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>     | 93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b>        | 40 of 69          |
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|  | <b>Client</b>  | Crown Castle                                 | <b>Designed by</b> | Nithish Acharya   |

| Section No. | Elevation ft      | Component Type | Condition        | Gov. Load Comb. | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|-------------------|----------------|------------------|-----------------|----------|--------------------------|--------------------------|
| L30         | 64.167 - 59.167   | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -245.937 | -981.803                 | -432.648                 |
|             |                   |                | Max. Mx          | 5               | -243.194 | -1019.606                | -213.264                 |
|             |                   |                | Max. My          | 8               | -171.048 | -31.537                  | -553.225                 |
|             |                   |                | Max. Vy          | 12              | 8.671    | 425.603                  | 225.254                  |
|             |                   |                | Max. Vx          | 2               | 11.157   | -8.942                   | 464.413                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.653                    |
| L31         | 59.167 - 54.167   | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -247.404 | -1020.439                | -449.625                 |
|             |                   |                | Max. Mx          | 5               | -244.658 | -1047.122                | -252.195                 |
|             |                   |                | Max. My          | 7               | -212.823 | -685.579                 | -537.448                 |
|             |                   |                | Max. Vy          | 12              | 8.523    | 382.781                  | 194.567                  |
|             |                   |                | Max. Vx          | 2               | 10.948   | -12.150                  | 409.280                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.651                    |
| L32         | 54.167 - 49.167   | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -248.890 | -1056.936                | -465.898                 |
|             |                   |                | Max. Mx          | 5               | -246.140 | -1072.702                | -290.216                 |
|             |                   |                | Max. My          | 7               | -214.279 | -723.458                 | -528.481                 |
|             |                   |                | Max. Vy          | 12              | 8.345    | 340.762                  | 164.395                  |
|             |                   |                | Max. Vx          | 2               | 10.707   | -15.335                  | 355.256                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.650                    |
| L33         | 49.167 - 47.1667  | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -249.491 | -1070.955                | -472.219                 |
|             |                   |                | Max. Mx          | 5               | -246.740 | -1082.420                | -305.150                 |
|             |                   |                | Max. My          | 7               | -215.755 | -760.056                 | -519.599                 |
|             |                   |                | Max. Vy          | 12              | 8.140    | 299.690                  | 134.833                  |
|             |                   |                | Max. Vx          | 2               | 10.437   | -18.488                  | 302.497                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.649                    |
| L34         | 47.1667 - 46.9167 | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -249.575 | -1072.687                | -473.005                 |
|             |                   |                | Max. Mx          | 5               | -246.823 | -1083.620                | -307.014                 |
|             |                   |                | Max. My          | 7               | -216.351 | -774.337                 | -516.094                 |
|             |                   |                | Max. Vy          | 12              | 8.041    | 283.554                  | 123.198                  |
|             |                   |                | Max. Vx          | 2               | 10.309   | -19.740                  | 281.779                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.648                    |
| L35         | 46.9167 - 43.4167 | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -250.718 | -1096.478                | -483.836                 |
|             |                   |                | Max. Mx          | 5               | -247.966 | -1099.995                | -332.732                 |
|             |                   |                | Max. My          | 7               | -216.433 | -776.112                 | -515.663                 |
|             |                   |                | Max. Vy          | 12              | 8.040    | 281.550                  | 121.752                  |
|             |                   |                | Max. Vx          | 2               | 10.304   | -19.896                  | 279.207                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.649                    |
| L36         | 43.4167 - 43.1667 | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -250.794 | -1098.148                | -484.604                 |
|             |                   |                | Max. Mx          | 5               | -248.041 | -1101.143                | -334.558                 |
|             |                   |                | Max. My          | 7               | -217.574 | -800.645                 | -509.697                 |
|             |                   |                | Max. Vy          | 12              | 7.859    | 253.809                  | 101.706                  |
|             |                   |                | Max. Vx          | 2               | 10.075   | -22.072                  | 243.596                  |
|             |                   |                | Max. Torque      | 7               |          |                          | 2.648                    |
| L37         | 43.1667 - 38.1667 | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                   |                | Max. Compression | 6               | -252.265 | -1130.370                | -499.511                 |
|             |                   |                | Max. Mx          | 6               | -252.265 | -1130.370                | -499.511                 |
|             |                   |                | Max. My          | 7               | -217.648 | -802.381                 | -509.282                 |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation ft     | Component Type | Condition        | Gov. Load Comb. | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|------------------|----------------|------------------|-----------------|----------|--------------------------|--------------------------|
| L38         | 38.1667 - 31.537 | Pole           | Max. Vy          | 11              | 7.860    | 378.640                  | -115.812                 |
|             |                  |                | Max. Vx          | 2               | 10.067   | -22.227                  | 241.082                  |
|             |                  |                | Max. Torque      | 7               |          |                          | 2.648                    |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -252.985 | -1145.194                | -506.470                 |
|             |                  |                | Max. Mx          | 6               | -252.985 | -1145.194                | -506.470                 |
|             |                  |                | Max. My          | 6               | -252.985 | -1145.194                | -506.470                 |
|             |                  |                | Max. Vy          | 11              | 7.656    | 340.022                  | -131.556                 |
|             |                  |                | Max. Vx          | 2               | 9.751    | -25.297                  | 191.615                  |
|             |                  |                | Max. Torque      | 7               |          |                          | 2.648                    |
| L39         | 31.537 - 30.537  | Pole           | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -255.255 | -1176.308                | -521.279                 |
|             |                  |                | Max. Mx          | 6               | -255.255 | -1176.308                | -521.279                 |
|             |                  |                | Max. My          | 6               | -255.255 | -1176.308                | -521.279                 |
|             |                  |                | Max. Vy          | 11              | 7.293    | 290.628                  | -151.989                 |
|             |                  |                | Max. Vx          | 2               | 9.288    | -29.301                  | 128.567                  |
|             |                  |                | Max. Torque      | 7               |          |                          | 2.647                    |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -256.411 | -1203.254                | -534.427                 |
|             |                  |                | Max. Mx          | 6               | -256.411 | -1203.254                | -534.427                 |
| L40         | 30.537 - 25.537  | Pole           | Max. My          | 6               | -256.411 | -1203.254                | -534.427                 |
|             |                  |                | Max. Vy          | 11              | 7.260    | 283.390                  | -155.033                 |
|             |                  |                | Max. Vx          | 2               | 9.226    | -29.900                  | 119.326                  |
|             |                  |                | Max. Torque      | 7               |          |                          | 2.647                    |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -257.704 | -1226.079                | -546.354                 |
|             |                  |                | Max. Mx          | 6               | -257.704 | -1226.079                | -546.354                 |
|             |                  |                | Max. My          | 6               | -257.704 | -1226.079                | -546.354                 |
|             |                  |                | Max. Vy          | 11              | 7.069    | 247.729                  | -169.909                 |
|             |                  |                | Max. Vx          | 2               | 8.901    | -32.839                  | 74.067                   |
| L41         | 25.537 - 20.537  | Pole           | Max. Torque      | 7               |          |                          | 2.647                    |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -258.903 | -1245.923                | -556.889                 |
|             |                  |                | Max. Mx          | 6               | -258.903 | -1245.923                | -556.889                 |
|             |                  |                | Max. My          | 6               | -258.903 | -1245.923                | -556.889                 |
|             |                  |                | Max. Vy          | 11              | 6.765    | 213.577                  | -184.390                 |
|             |                  |                | Max. Vx          | 2               | 8.459    | -35.317                  | 30.425                   |
|             |                  |                | Max. Torque      | 4               |          |                          | -2.618                   |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -260.123 | -1262.489                | -566.186                 |
| L42         | 20.537 - 15.537  | Pole           | Max. Mx          | 6               | -260.123 | -1262.489                | -566.186                 |
|             |                  |                | Max. My          | 6               | -260.123 | -1262.489                | -566.186                 |
|             |                  |                | Max. Vy          | 11              | 6.489    | 180.578                  | -198.036                 |
|             |                  |                | Max. Vx          | 2               | 8.065    | -38.025                  | -10.850                  |
|             |                  |                | Max. Torque      | 4               |          |                          | -2.617                   |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -261.365 | -1276.055                | -574.368                 |
|             |                  |                | Max. Mx          | 6               | -261.365 | -1276.055                | -574.368                 |
|             |                  |                | Max. My          | 6               | -261.365 | -1276.055                | -574.368                 |
|             |                  |                | Max. Vy          | 11              | 6.177    | 149.038                  | -211.076                 |
| L43         | 15.537 - 10.537  | Pole           | Max. Vx          | 2               | 7.642    | -40.638                  | -50.088                  |
|             |                  |                | Max. Torque      | 4               |          |                          | -2.617                   |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -262.630 | -1286.895                | -581.555                 |
|             |                  |                | Max. Mx          | 6               | -262.630 | -1286.895                | -581.555                 |
|             |                  |                | Max. Vy          | 11              | 6.177    | 149.038                  | -211.076                 |
|             |                  |                | Max. Vx          | 2               | 7.642    | -40.638                  | -50.088                  |
|             |                  |                | Max. Torque      | 4               |          |                          | -2.617                   |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -262.630 | -1286.895                | -581.555                 |
| L44         | 10.537 - 5.537   | Pole           | Max. Vy          | 11              | 6.177    | 149.038                  | -211.076                 |
|             |                  |                | Max. Vx          | 2               | 7.642    | -40.638                  | -50.088                  |
|             |                  |                | Max. Torque      | 4               |          |                          | -2.617                   |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |                  |                | Max. Compression | 6               | -262.630 | -1286.895                | -581.555                 |
|             |                  |                | Max. Mx          | 6               | -262.630 | -1286.895                | -581.555                 |
|             |                  |                | Max. Vy          | 11              | 6.177    | 149.038                  | -211.076                 |
|             |                  |                | Max. Vx          | 2               | 7.642    | -40.638                  | -50.088                  |
|             |                  |                | Max. Torque      | 4               |          |                          | -2.617                   |
|             |                  |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
| L45         | 5.537 - 0.537    | Pole           | Max. Compression | 6               | -262.630 | -1286.895                | -581.555                 |
|             |                  |                | Max. Mx          | 6               | -262.630 | -1286.895                | -581.555                 |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation ft | Component Type | Condition        | Gov. Load Comb. | Axial K  | Major Axis Moment kip-ft | Minor Axis Moment kip-ft |
|-------------|--------------|----------------|------------------|-----------------|----------|--------------------------|--------------------------|
| L46         | 0.537 - 0    | Pole           | Max. My          | 5               | -259.868 | -1215.324                | -587.791                 |
|             |              |                | Max. Vy          | 11              | 5.833    | 119.131                  | -223.509                 |
|             |              |                | Max. Vx          | 2               | 7.193    | -43.157                  | -87.152                  |
|             |              |                | Max. Torque      | 4               |          |                          | -2.617                   |
|             |              |                | Max Tension      | 1               | 0.000    | 0.000                    | 0.000                    |
|             |              |                | Max. Compression | 6               | -262.768 | -1287.908                | -582.273                 |
|             |              |                | Max. Mx          | 6               | -262.768 | -1287.908                | -582.273                 |
|             |              |                | Max. My          | 5               | -260.005 | -1215.636                | -590.080                 |
|             |              |                | Max. Vy          | 11              | 5.461    | 91.008                   | -235.333                 |
|             |              |                | Max. Vx          | 2               | 6.720    | -45.577                  | -121.907                 |
|             |              |                | Max. Torque      | 4               |          |                          | -2.617                   |

### Maximum Reactions

| Location                                      | Condition                                       | Gov. Load Comb.     | Vertical K | Horizontal, X K | Horizontal, Z K |       |
|---|---|---------------------|------------|-----------------|-----------------|-------|
| Mast  | Max. Vert                                       | 6                   | 262.768    | -1.880          | -1.336          |       |
|   | Max. H <sub>x</sub>                             | 3                   | 144.178    | 2.055           | -5.769          |       |
|   | Max. H <sub>z</sub>                             | 8                   | 189.066    | -0.402          | 2.808           |       |
|   | Max. M <sub>x</sub>                             | 21                  | -46.064    | -0.347          | 0.539           |       |
|   | Max. M <sub>z</sub>                             | 6                   | 1287.908   | -1.880          | -1.336          |       |
|   | Max. Torsion                                    | 7                   | 2.339      | -3.489          | 1.251           |       |
|   | Min. Vert                                       | 32                  | 119.755    | 0.117           | 0.043           |       |
|   | Min. H <sub>x</sub>                             | 11                  | 201.071    | -5.414          | -2.301          |       |
|   | Min. H <sub>z</sub>                             | 2                   | 161.090    | -0.492          | -6.674          |       |
|   | Min. M <sub>x</sub>                             | 5                   | -590.080   | -0.579          | -4.253          |       |
|   | Min. M <sub>z</sub>                             | 9                   | -261.414   | -1.374          | 1.607           |       |
|   | Min. Torsion                                    | 4                   | -2.617     | 0.333           | -6.107          |       |
|   | Guy C @ 42 ft<br>Elev 0 ft<br>Azimuth 211 deg   | Max. Vert           | 9          | -0.369          | -0.040          | 0.064 |
|   | Guy B @ 42.5 ft<br>Elev 0 ft<br>Azimuth 120 deg | Max. H <sub>x</sub> | 10         | -0.551          | -0.011          | 0.194 |
| Max. H <sub>z</sub>                           |   | 4                   | -85.836    | -22.121         | 33.870          |       |
| Min. Vert                                     |   | 4                   | -85.836    | -22.121         | 33.870          |       |
| Min. H <sub>x</sub>                           |   | 5                   | -83.282    | -22.497         | 32.215          |       |
| Min. H <sub>z</sub>                           |   | 9                   | -0.369     | -0.040          | 0.064           |       |
| Max. Vert                                     |   | 6                   | -0.204     | 0.002           | 0.003           |       |
| Guy A @ 20.5 ft<br>Elev 0 ft<br>Azimuth 0 deg | Max. H <sub>x</sub>                             | 11                  | -76.091    | 31.684          | 17.507          |       |
|   | Max. H <sub>z</sub>                             | 11                  | -76.091    | 31.684          | 17.507          |       |
|   | Min. Vert                                       | 11                  | -76.091    | 31.684          | 17.507          |       |
|   | Min. H <sub>x</sub>                             | 6                   | -0.204     | 0.002           | 0.003           |       |
|   | Min. H <sub>z</sub>                             | 7                   | -0.332     | 0.108           | -0.037          |       |
|   | Max. Vert                                       | 2                   | -4.789     | -0.004          | -0.866          |       |
|   | Max. H <sub>x</sub>                             | 10                  | -117.030   | 1.351           | -26.946         |       |
|   | Max. H <sub>z</sub>                             | 2                   | -4.789     | -0.004          | -0.866          |       |
| Guy A @ 20.5 ft<br>Elev 0 ft<br>Azimuth 0 deg | Min. Vert                                       | 7                   | -149.196   | -3.667          | -34.978         |       |
|   | Min. H <sub>x</sub>                             | 6                   | -148.700   | -4.897          | -34.873         |       |
|   | Min. H <sub>z</sub>                             | 7                   | -149.196   | -3.667          | -34.978         |       |

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>43 of 69               |
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

## Tower Mast Reaction Summary

| Load Combination                                   | Vertical | Shear <sub>x</sub> | Shear <sub>z</sub> | Overtuning Moment, M <sub>x</sub> | Overtuning Moment, M <sub>z</sub> | Torque |
|--|----------|--------------------|--------------------|-----------------------------------|-----------------------------------|--------|
|  | K        | K                  | K                  | kip-ft                            | kip-ft                            | kip-ft |
| Dead Only  | 125.504  | 0.404              | 0.947              | 72.203                            | -45.219                           | -0.013 |
| 1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy           | 161.090  | 0.492              | 6.674              | 125.498                           | -45.831                           | 1.215  |
| 1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy          | 144.178  | -2.055             | 5.769              | 122.778                           | -77.854                           | 2.312  |
| 1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy          | 207.421  | -0.333             | 6.107              | 397.266                           | -700.497                          | 2.617  |
| 1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy          | 260.006  | 0.579              | 4.253              | 590.080                           | -1215.636                         | 0.839  |
| 1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy         | 262.768  | 1.880              | 1.336              | 582.273                           | -1287.908                         | -1.268 |
| 1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy         | 229.583  | 3.489              | -1.251             | 445.514                           | -1032.735                         | -2.339 |
| 1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy         | 189.066  | 0.402              | -2.808             | 280.159                           | -68.098                           | -1.339 |
| 1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy         | 231.576  | 1.374              | -1.607             | 393.592                           | 261.414                           | -1.186 |
| 1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy         | 233.519  | 4.018              | 0.256              | 361.779                           | 212.086                           | -1.744 |
| 1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy         | 201.071  | 5.414              | 2.301              | 236.563                           | 88.099                            | -1.961 |
| 1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy         | 163.850  | 5.180              | 3.855              | 108.674                           | -32.868                           | -1.378 |
| 1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy         | 165.780  | 3.256              | 5.909              | 122.413                           | -36.176                           | -0.220 |
| 1.2 Dead+1.0 Ice+1.0 Temp+Guy                      | 132.619  | 0.317              | 0.694              | 57.208                            | -34.979                           | -0.009 |
| 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy   | 136.857  | 0.330              | 1.968              | 72.099                            | -34.669                           | 0.227  |
| 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy  | 134.147  | -0.266             | 1.808              | 71.001                            | -38.937                           | 0.449  |
| 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy  | 134.081  | -0.500             | 1.429              | 76.946                            | -65.455                           | 0.550  |
| 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy  | 140.593  | -0.101             | 1.075              | 101.320                           | -137.531                          | 0.455  |
| 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy | 141.100  | 0.189              | 0.509              | 100.427                           | -151.972                          | 0.226  |
| 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy | 134.568  | 0.212              | -0.156             | 72.319                            | -99.468                           | -0.013 |
| 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy | 129.280  | 0.347              | -0.539             | 46.064                            | -40.404                           | -0.249 |
| 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy | 131.984  | 0.901              | -0.388             | 46.926                            | -31.261                           | -0.442 |
| 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy | 135.332  | 1.342              | 0.090              | 51.955                            | -29.845                           | -0.545 |
| 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy | 137.778  | 1.518              | 0.715              | 58.233                            | -30.528                           | -0.500 |
| 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy | 138.971  | 1.356              | 1.332              | 64.935                            | -31.606                           | -0.319 |
| 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy | 138.741  | 0.935              | 1.803              | 70.137                            | -32.746                           | -0.065 |
| Dead+Wind 0 deg - Service+Guy                      | 129.986  | 0.426              | 2.146              | 84.583                            | -45.445                           | 0.260  |
| Dead+Wind 30 deg - Service+Guy                     | 126.895  | -0.133             | 1.953              | 81.673                            | -49.257                           | 0.453  |
| Dead+Wind 60 deg - Service+Guy                     | 123.609  | -0.555             | 1.534              | 79.368                            | -50.803                           | 0.527  |
| Dead+Wind 90 deg - Service+Guy                     | 122.792  | -0.576             | 1.002              | 79.854                            | -67.961                           | 0.431  |

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>44 of 69               |
|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Load Combination                | Vertical<br>K | Shear <sub>x</sub><br>K | Shear <sub>z</sub><br>K | Overturning Moment, M <sub>x</sub><br>kip-ft | Overturning Moment, M <sub>z</sub><br>kip-ft | Torque<br>kip-ft |
|---------------------------------|---------------|-------------------------|-------------------------|--|--|------------------|
| Service+Guy                     |               |                         |                         |  |  |                  |
| Dead+Wind 120 deg - Service+Guy | 122.207       | -0.350                  | 0.455                   | 76.360                                       | -73.107                                      | 0.210            |
| Dead+Wind 150 deg - Service+Guy | 119.755       | -0.117                  | -0.043                  | 64.587                                       | -53.659                                      | -0.039           |
| Dead+Wind 180 deg - Service+Guy | 120.990       | 0.388                   | -0.234                  | 60.680                                       | -45.533                                      | -0.288           |
| Dead+Wind 210 deg - Service+Guy | 124.068       | 0.941                   | -0.055                  | 63.052                                       | -41.377                                      | -0.456           |
| Dead+Wind 240 deg - Service+Guy | 127.577       | 1.378                   | 0.369                   | 65.979                                       | -41.356                                      | -0.531           |
| Dead+Wind 270 deg - Service+Guy | 130.459       | 1.550                   | 0.967                   | 72.583                                       | -40.970                                      | -0.462           |
| Dead+Wind 300 deg - Service+Guy | 131.868       | 1.382                   | 1.548                   | 79.024                                       | -41.764                                      | -0.270           |
| Dead+Wind 330 deg - Service+Guy | 131.894       | 0.985                   | 1.977                   | 82.733                                       | -42.500                                      | -0.014           |

## Solution Summary

| Load Comb. | Sum of Applied Forces |         |         | Sum of Reactions |         |         | % Error |
|------------|-----------------------|---------|---------|------------------|---------|---------|---------|
|            | PX<br>K               | PY<br>K | PZ<br>K | PX<br>K          | PY<br>K | PZ<br>K |         |
| 1          | 0.000                 | -45.342 | 0.000   | 0.000            | 45.342  | 0.000   | 0.001%  |
| 2          | -0.180                | -54.267 | -27.543 | 0.180            | 54.267  | 27.543  | 0.000%  |
| 3          | 14.019                | -54.217 | -24.352 | -14.019          | 54.217  | 24.352  | 0.000%  |
| 4          | 23.118                | -54.158 | -13.181 | -23.118          | 54.158  | 13.181  | 0.000%  |
| 5          | 27.104                | -54.105 | 0.183   | -27.104          | 54.105  | -0.183  | 0.000%  |
| 6          | 23.010                | -54.060 | 13.326  | -23.010          | 54.060  | -13.326 | 0.000%  |
| 7          | 13.959                | -54.032 | 23.883  | -13.959          | 54.032  | -23.883 | 0.000%  |
| 8          | 0.180                 | -54.044 | 27.709  | -0.180           | 54.044  | -27.709 | 0.000%  |
| 9          | -14.064               | -54.093 | 24.431  | 14.064           | 54.093  | -24.431 | 0.000%  |
| 10         | -23.191               | -54.152 | 13.223  | 23.191           | 54.152  | -13.223 | 0.000%  |
| 11         | -26.937               | -54.205 | -0.183  | 26.937           | 54.205  | 0.183   | 0.000%  |
| 12         | -23.008               | -54.250 | -13.325 | 23.008           | 54.250  | 13.325  | 0.000%  |
| 13         | -13.951               | -54.278 | -23.870 | 13.951           | 54.278  | 23.870  | 0.000%  |
| 14         | 0.000                 | -75.373 | 0.000   | 0.000            | 75.373  | 0.000   | 0.000%  |
| 15         | -0.030                | -75.416 | -5.837  | 0.030            | 75.416  | 5.837   | 0.000%  |
| 16         | 2.933                 | -75.398 | -5.094  | -2.933           | 75.398  | 5.094   | 0.000%  |
| 17         | 5.034                 | -75.375 | -2.880  | -5.034           | 75.375  | 2.880   | 0.000%  |
| 18         | 5.808                 | -75.355 | 0.031   | -5.808           | 75.355  | -0.031  | 0.000%  |
| 19         | 4.991                 | -75.336 | 2.890   | -4.991           | 75.336  | -2.890  | 0.000%  |
| 20         | 2.947                 | -75.325 | 5.055   | -2.947           | 75.325  | -5.055  | 0.000%  |
| 21         | 0.030                 | -75.329 | 5.850   | -0.030           | 75.329  | -5.850  | 0.000%  |
| 22         | -2.939                | -75.347 | 5.105   | 2.939            | 75.347  | -5.105  | 0.000%  |
| 23         | -5.030                | -75.370 | 2.877   | 5.030            | 75.370  | -2.877  | 0.000%  |
| 24         | -5.802                | -75.391 | -0.031  | 5.802            | 75.391  | 0.031   | 0.000%  |
| 25         | -4.995                | -75.409 | -2.892  | 4.995            | 75.409  | 2.892   | 0.000%  |
| 26         | -2.949                | -75.420 | -5.059  | 2.949            | 75.420  | 5.059   | 0.000%  |
| 27         | -0.039                | -45.367 | -5.977  | 0.039            | 45.367  | 5.977   | 0.000%  |
| 28         | 3.042                 | -45.356 | -5.284  | -3.042           | 45.356  | 5.284   | 0.000%  |
| 29         | 5.016                 | -45.343 | -2.860  | -5.016           | 45.343  | 2.860   | 0.000%  |
| 30         | 5.881                 | -45.332 | 0.040   | -5.881           | 45.332  | -0.040  | 0.000%  |
| 31         | 4.993                 | -45.322 | 2.892   | -4.993           | 45.322  | -2.892  | 0.000%  |
| 32         | 3.029                 | -45.316 | 5.183   | -3.029           | 45.316  | -5.183  | 0.000%  |
| 33         | 0.039                 | -45.318 | 6.013   | -0.039           | 45.318  | -6.013  | 0.000%  |
| 34         | -3.052                | -45.329 | 5.302   | 3.052            | 45.329  | -5.302  | 0.000%  |
| 35         | -5.032                | -45.342 | 2.869   | 5.032            | 45.342  | -2.869  | 0.000%  |



|  |  |                                       |
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Load Comb. | Sum of Applied Forces |         |         | Sum of Reactions |         |         | % Error |
|------------|-----------------------|---------|---------|------------------|---------|---------|---------|
|            | PX<br>K               | PY<br>K | PZ<br>K | PX<br>K          | PY<br>K | PZ<br>K |         |
| 36         | -5.845                | -45.353 | -0.040  | 5.845            | 45.353  | 0.040   | 0.000%  |
| 37         | -4.993                | -45.363 | -2.891  | 4.993            | 45.363  | 2.891   | 0.000%  |
| 38         | -3.027                | -45.369 | -5.180  | 3.027            | 45.369  | 5.180   | 0.000%  |

### Non-Linear Convergence Results

| Load Combination | Converged? | Number of Cycles | Displacement Tolerance | Force Tolerance |
|------------------|------------|------------------|------------------------|-----------------|
| 1                | Yes        | 5                | 0.0000001              | 0.00051945      |
| 2                | Yes        | 6                | 0.0000001              | 0.00056765      |
| 3                | Yes        | 7                | 0.0000001              | 0.00010136      |
| 4                | Yes        | 9                | 0.0000001              | 0.00071371      |
| 5                | Yes        | 11               | 0.0000001              | 0.00078812      |
| 6                | Yes        | 12               | 0.0000001              | 0.00035638      |
| 7                | Yes        | 10               | 0.0000001              | 0.00082257      |
| 8                | Yes        | 8                | 0.0000001              | 0.00015669      |
| 9                | Yes        | 9                | 0.0000001              | 0.00019559      |
| 10               | Yes        | 9                | 0.0000001              | 0.00017965      |
| 11               | Yes        | 8                | 0.0000001              | 0.00017289      |
| 12               | Yes        | 7                | 0.0000001              | 0.00006749      |
| 13               | Yes        | 7                | 0.0000001              | 0.00007576      |
| 14               | Yes        | 6                | 0.0000001              | 0.00014519      |
| 15               | Yes        | 6                | 0.0000001              | 0.00042336      |
| 16               | Yes        | 6                | 0.0000001              | 0.00065501      |
| 17               | Yes        | 8                | 0.0000001              | 0.00020243      |
| 18               | Yes        | 9                | 0.0000001              | 0.00024058      |
| 19               | Yes        | 9                | 0.0000001              | 0.00026481      |
| 20               | Yes        | 8                | 0.0000001              | 0.00079118      |
| 21               | Yes        | 7                | 0.0000001              | 0.00010760      |
| 22               | Yes        | 6                | 0.0000001              | 0.00085875      |
| 23               | Yes        | 6                | 0.0000001              | 0.00084826      |
| 24               | Yes        | 6                | 0.0000001              | 0.00060347      |
| 25               | Yes        | 6                | 0.0000001              | 0.00050217      |
| 26               | Yes        | 6                | 0.0000001              | 0.00043700      |
| 27               | Yes        | 5                | 0.0000001              | 0.00028714      |
| 28               | Yes        | 5                | 0.0000001              | 0.00044723      |
| 29               | Yes        | 5                | 0.0000001              | 0.00063333      |
| 30               | Yes        | 7                | 0.0000001              | 0.00014283      |
| 31               | Yes        | 7                | 0.0000001              | 0.00024988      |
| 32               | Yes        | 6                | 0.0000001              | 0.00015822      |
| 33               | Yes        | 5                | 0.0000001              | 0.00046566      |
| 34               | Yes        | 5                | 0.0000001              | 0.00037371      |
| 35               | Yes        | 5                | 0.0000001              | 0.00047008      |
| 36               | Yes        | 5                | 0.0000001              | 0.00034226      |
| 37               | Yes        | 5                | 0.0000001              | 0.00024426      |
| 38               | Yes        | 5                | 0.0000001              | 0.00021693      |

### Maximum Tower Deflections - Service Wind

| Section No. | Elevation<br>ft | Horz.<br>Deflection<br>in | Gov.<br>Load<br>Comb. | Tilt<br>° | Twist<br>° |
|-------------|-----------------|---------------------------|-----------------------|-----------|------------|
|-------------|-----------------|---------------------------|-----------------------|-----------|------------|

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b>                                   | <b>Page</b>                           |
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|  | <b>Project</b>                               | <b>Date</b>                           |
| <b>Client</b>  | Crown Castle                                 | 18:39:54 09/08/21                     |
|  |  | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft   | Horz. Deflection<br>in | Gov. Load Comb. | Tilt<br>° | Twist<br>° |
|-------------|-------------------|------------------------|-----------------|-----------|------------|
| L1          | 150.167 - 145.167 | 13.848                 | 31              | 1.142     | 0.010      |
| L2          | 145.167 - 140.167 | 12.655                 | 31              | 1.132     | 0.009      |
| L3          | 140.167 - 135.167 | 11.484                 | 31              | 1.103     | 0.008      |
| L4          | 135.167 - 130.167 | 10.353                 | 31              | 1.054     | 0.007      |
| L5          | 130.167 - 125.167 | 9.283                  | 31              | 0.988     | 0.006      |
| L6          | 125.167 - 123.75  | 8.294                  | 31              | 0.898     | 0.005      |
| L7          | 123.75 - 123.5    | 8.032                  | 31              | 0.869     | 0.005      |
| L8          | 123.5 - 118.5     | 7.987                  | 31              | 0.867     | 0.005      |
| L9          | 118.5 - 113.5     | 7.110                  | 31              | 0.807     | 0.004      |
| L10         | 113.5 - 112.167   | 6.301                  | 31              | 0.739     | 0.004      |
| L11         | 112.167 - 111.917 | 6.098                  | 31              | 0.720     | 0.004      |
| L12         | 111.917 - 110.167 | 6.061                  | 31              | 0.717     | 0.004      |
| L13         | 110.167 - 109.917 | 5.801                  | 31              | 0.699     | 0.004      |
| L14         | 109.917 - 104.917 | 5.765                  | 31              | 0.696     | 0.004      |
| L15         | 104.917 - 99.917  | 5.070                  | 31              | 0.633     | 0.003      |
| L16         | 99.917 - 95       | 4.443                  | 31              | 0.566     | 0.003      |
| L17         | 95 - 94.75        | 3.897                  | 31              | 0.498     | 0.003      |
| L18         | 94.75 - 89.75     | 3.871                  | 31              | 0.495     | 0.003      |
| L19         | 89.75 - 85.5      | 3.385                  | 31              | 0.435     | 0.002      |
| L20         | 85.5 - 85.25      | 3.020                  | 31              | 0.391     | 0.002      |
| L21         | 85.25 - 85        | 3.000                  | 31              | 0.389     | 0.002      |
| L22         | 85 - 84.75        | 2.980                  | 31              | 0.387     | 0.002      |
| L23         | 84.75 - 83        | 2.960                  | 31              | 0.385     | 0.002      |
| L24         | 83 - 82.65        | 2.821                  | 31              | 0.373     | 0.002      |
| L25         | 82.65 - 82.4167   | 2.794                  | 31              | 0.370     | 0.002      |
| L26         | 82.4167 - 77.4167 | 2.776                  | 31              | 0.368     | 0.002      |
| L27         | 77.4167 - 70.167  | 2.414                  | 31              | 0.328     | 0.002      |
| L28         | 73.747 - 69.167   | 2.173                  | 31              | 0.302     | 0.002      |
| L29         | 69.167 - 64.167   | 1.891                  | 31              | 0.284     | 0.002      |
| L30         | 64.167 - 59.167   | 1.610                  | 31              | 0.255     | 0.002      |
| L31         | 59.167 - 54.167   | 1.358                  | 31              | 0.228     | 0.002      |
| L32         | 54.167 - 49.167   | 1.132                  | 31              | 0.205     | 0.001      |
| L33         | 49.167 - 47.1667  | 0.929                  | 31              | 0.183     | 0.001      |
| L34         | 47.1667 - 46.9167 | 0.855                  | 31              | 0.174     | 0.001      |
| L35         | 46.9167 - 43.4167 | 0.845                  | 31              | 0.173     | 0.001      |
| L36         | 43.4167 - 43.1667 | 0.723                  | 31              | 0.161     | 0.001      |
| L37         | 43.1667 - 38.1667 | 0.715                  | 31              | 0.160     | 0.001      |
| L38         | 38.1667 - 31.537  | 0.557                  | 31              | 0.141     | 0.001      |
| L39         | 35.747 - 30.537   | 0.488                  | 31              | 0.132     | 0.001      |
| L40         | 30.537 - 25.537   | 0.350                  | 31              | 0.119     | 0.001      |
| L41         | 25.537 - 20.537   | 0.238                  | 31              | 0.095     | 0.001      |
| L42         | 20.537 - 15.537   | 0.150                  | 31              | 0.073     | 0.000      |
| L43         | 15.537 - 10.537   | 0.084                  | 31              | 0.053     | 0.000      |
| L44         | 10.537 - 5.537    | 0.038                  | 31              | 0.035     | 0.000      |
| L45         | 5.537 - 0.537     | 0.010                  | 31              | 0.018     | 0.000      |
| L46         | 0.537 - 0         | 0.000                  | 1               | 0.000     | 0.000      |

### Critical Deflections and Radius of Curvature - Service Wind

| Elevation<br>ft | Appurtenance                 | Gov. Load Comb. | Deflection<br>in | Tilt<br>° | Twist<br>° | Radius of Curvature<br>ft |
|-----------------|------------------------------|-----------------|------------------|-----------|------------|---------------------------|
| 151.000         | Pipe Mount [PM 701-1]        | 31              | 13.848           | 1.142     | 0.010      | 12233                     |
| 149.000         | OPA65R-BU4B w/ Mount Pipe    | 31              | 13.568           | 1.141     | 0.010      | 12233                     |
| 140.000         | AIR 21 B2A/B4P w/ Mount Pipe | 31              | 11.445           | 1.102     | 0.008      | 6820                      |
| 134.000         | GPS (3"x7")                  | 31              | 10.097           | 1.040     | 0.007      | 4423                      |
| 130.000         | BXA-80080/4CF w/ Mount Pipe  | 31              | 9.248            | 0.985     | 0.006      | 3558                      |

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>47 of 69               |
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Elevation | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------|--------------|-----------------|---------------|--------|---------|------------------------|
| 88.688    | Guy          | 31              | 3.290         | 0.423  | 0.002   | 4933                   |
| 71.000    | FMO          | 31              | 2.001         | 0.291  | 0.002   | 11626                  |
| 22.000    | MYA-43012N   | 31              | 0.173         | 0.079  | 0.001   | 13330                  |

### Maximum Tower Deflections - Design Wind

| Section No. | Elevation ft      | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|-------------|-------------------|---------------------|-----------------|--------|---------|
| L1          | 150.167 - 145.167 | 111.280             | 6               | 7.329  | 0.114   |
| L2          | 145.167 - 140.167 | 103.656             | 6               | 7.285  | 0.110   |
| L3          | 140.167 - 135.167 | 96.125              | 6               | 7.151  | 0.103   |
| L4          | 135.167 - 130.167 | 88.781              | 6               | 6.922  | 0.095   |
| L5          | 130.167 - 125.167 | 81.720              | 6               | 6.605  | 0.086   |
| L6          | 125.167 - 123.75  | 75.041              | 6               | 6.180  | 0.077   |
| L7          | 123.75 - 123.5    | 73.233              | 6               | 6.043  | 0.074   |
| L8          | 123.5 - 118.5     | 72.918              | 6               | 6.031  | 0.073   |
| L9          | 118.5 - 113.5     | 66.767              | 6               | 5.747  | 0.067   |
| L10         | 113.5 - 112.167   | 60.933              | 6               | 5.421  | 0.060   |
| L11         | 112.167 - 111.917 | 59.436              | 6               | 5.331  | 0.059   |
| L12         | 111.917 - 110.167 | 59.158              | 6               | 5.319  | 0.058   |
| L13         | 110.167 - 109.917 | 57.229              | 6               | 5.232  | 0.056   |
| L14         | 109.917 - 104.917 | 56.956              | 6               | 5.218  | 0.056   |
| L15         | 104.917 - 99.917  | 51.661              | 6               | 4.916  | 0.050   |
| L16         | 99.917 - 95       | 46.689              | 6               | 4.596  | 0.043   |
| L17         | 95 - 94.75        | 42.131              | 6               | 4.269  | 0.037   |
| L18         | 94.75 - 89.75     | 41.908              | 6               | 4.255  | 0.036   |
| L19         | 89.75 - 85.5      | 37.608              | 6               | 3.968  | 0.031   |
| L20         | 85.5 - 85.25      | 34.185              | 6               | 3.737  | 0.026   |
| L21         | 85.25 - 85        | 33.990              | 6               | 3.727  | 0.026   |
| L22         | 85 - 84.75        | 33.795              | 6               | 3.717  | 0.026   |
| L23         | 84.75 - 83        | 33.601              | 6               | 3.706  | 0.025   |
| L24         | 83 - 82.65        | 32.258              | 6               | 3.633  | 0.024   |
| L25         | 82.65 - 82.4167   | 31.992              | 6               | 3.616  | 0.024   |
| L26         | 82.4167 - 77.4167 | 31.816              | 6               | 3.605  | 0.024   |
| L27         | 77.4167 - 70.167  | 28.174              | 6               | 3.360  | 0.020   |
| L28         | 73.747 - 69.167   | 25.661              | 6               | 3.187  | 0.018   |
| L29         | 69.167 - 64.167   | 22.660              | 6               | 3.059  | 0.016   |
| L30         | 64.167 - 59.167   | 19.579              | 6               | 2.830  | 0.013   |
| L31         | 59.167 - 54.167   | 16.732              | 6               | 2.612  | 0.011   |
| L32         | 54.167 - 49.167   | 14.111              | 6               | 2.399  | 0.009   |
| L33         | 49.167 - 47.1667  | 11.709              | 6               | 2.191  | 0.008   |
| L34         | 47.1667 - 46.9167 | 10.809              | 6               | 2.110  | 0.007   |
| L35         | 46.9167 - 43.4167 | 10.698              | 6               | 2.101  | 0.007   |
| L36         | 43.4167 - 43.1667 | 9.205               | 6               | 1.975  | 0.006   |
| L37         | 43.1667 - 38.1667 | 9.102               | 6               | 1.964  | 0.006   |
| L38         | 38.1667 - 31.537  | 7.154               | 6               | 1.760  | 0.005   |
| L39         | 35.747 - 30.537   | 6.287               | 6               | 1.664  | 0.005   |
| L40         | 30.537 - 25.537   | 4.542               | 6               | 1.507  | 0.004   |
| L41         | 25.537 - 20.537   | 3.114               | 6               | 1.224  | 0.003   |
| L42         | 20.537 - 15.537   | 1.974               | 6               | 0.956  | 0.002   |
| L43         | 15.537 - 10.537   | 1.108               | 6               | 0.702  | 0.002   |
| L44         | 10.537 - 5.537    | 0.500               | 6               | 0.462  | 0.001   |
| L45         | 5.537 - 0.537     | 0.135               | 6               | 0.236  | 0.001   |
| L46         | 0.537 - 0         | 0.001               | 6               | 0.022  | 0.000   |

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### Critical Deflections and Radius of Curvature - Design Wind

| Elevation | Appurtenance                 | Gov. Load Comb. | Deflection | Tilt  | Twist | Radius of Curvature |
|-----------|------------------------------|-----------------|------------|-------|-------|---------------------|
| ft        |                              |                 | in         | °     | °     | ft                  |
| 151.000   | Pipe Mount [PM 701-1]        | 6               | 111.280    | 7.329 | 0.126 | 2948                |
| 149.000   | OPA65R-BU4B w/ Mount Pipe    | 6               | 109.497    | 7.323 | 0.125 | 2948                |
| 140.000   | AIR 21 B2A/B4P w/ Mount Pipe | 6               | 95.876     | 7.145 | 0.114 | 1607                |
| 134.000   | GPS (3"x7")                  | 6               | 87.104     | 6.855 | 0.104 | 1000                |
| 130.000   | BXA-80080/4CF w/ Mount Pipe  | 6               | 81.491     | 6.593 | 0.096 | 795                 |
| 88.688    | Guy                          | 6               | 36.733     | 3.905 | 0.029 | 1056                |
| 71.000    | FMO                          | 6               | 23.843     | 3.110 | 0.017 | 1608                |
| 22.000    | MYA-43012N                   | 6               | 2.279      | 1.030 | 0.003 | 1074                |

### Guy Design Data

| Section No. | Elevation       | Size     | Initial Tension | Breaking Load | Actual $T_u$ | Allowable $\phi T_n$ | Required S.F. | Actual S.F. |
|-------------|-----------------|----------|-----------------|---------------|--------------|----------------------|---------------|-------------|
|             | ft              |          | K               | K             | K            | K                    |               |             |
| L19         | 88.688 (A)      | 1 5/8 BS | 38.880          | 324.001       | 153.765      | 204.120              | 0.952         | 1.264 ✓     |
|             | 88.688 (B) (48) | 1 3/8 BS | 27.840          | 232.000       | 84.611       | 146.160              | 0.952         | 1.645 ✓     |
|             | 88.688 (C) (47) | 1 3/8 BS | 27.840          | 232.000       | 95.237       | 146.160              | 0.952         | 1.462 ✓     |

### Compression Checks

### Pole Design Data

| Section No. | Elevation         | Size               | L     | $L_u$ | $Kl/r$ | A               | $P_u$  | $\phi P_n$ | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|-------------------|--------------------|-------|-------|--------|-----------------|--------|------------|------------------------------|
|             | ft                |                    | ft    | ft    |        | in <sup>2</sup> | K      | K          |                              |
| L1          | 150.167 - 149.167 | TP16.31x15.53x0.25 | 5.000 | 0.000 | 0.0    | 12.426          | -0.324 | 726.920    | 0.000                        |
|             | 149.167 - 148.167 |                    |       |       |        | 12.552          | -4.713 | 734.266    | 0.006                        |
|             | 148.167 - 147.167 |                    |       |       |        | 12.677          | -4.767 | 741.613    | 0.006                        |
|             | 147.167 - 146.167 |                    |       |       |        | 12.803          | -4.821 | 748.959    | 0.006                        |
|             | 146.167 - 145.167 |                    |       |       |        | 12.928          | -4.877 | 756.306    | 0.006                        |
| L2          | 145.167 - 144.167 | TP17.09x16.31x0.25 | 5.000 | 0.000 | 0.0    | 13.054          | -4.936 | 763.652    | 0.006                        |
|             | 144.167 - 143.167 |                    |       |       |        | 13.179          | -4.996 | 770.998    | 0.006                        |
|             | 143.167 - 142.167 |                    |       |       |        | 13.305          | -5.057 | 778.345    | 0.006                        |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft        | Size                 | L<br>ft | L <sub>u</sub><br>ft | Kl/r | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|------------------------|----------------------|---------|----------------------|------|----------------------|---------------------|----------------------|---------------------------------|
|             | 142.167 - 141.167      |                      |         |                      |      | 13.431               | -5.118              | 785.691              | 0.007                           |
|             | 141.167 - 140.167      |                      |         |                      |      | 13.556               | -5.181              | 793.038              | 0.007                           |
| L3          | 140.167 - 139.167      | TP17.87x17.09x0.25   | 5.000   | 0.000                | 0.0  | 13.682               | -8.408              | 800.384              | 0.011                           |
|             | 139.167 - 138.167      |                      |         |                      |      | 13.807               | -8.487              | 807.731              | 0.011                           |
|             | 138.167 - 137.167      |                      |         |                      |      | 13.933               | -8.567              | 815.077              | 0.011                           |
|             | 137.167 - 136.167      |                      |         |                      |      | 14.059               | -8.649              | 822.423              | 0.011                           |
|             | 136.167 - 135.167      |                      |         |                      |      | 14.184               | -8.732              | 829.770              | 0.011                           |
| L4          | 135.167 - 134.167      | TP18.65x17.87x0.25   | 5.000   | 0.000                | 0.0  | 14.310               | -8.816              | 837.116              | 0.011                           |
|             | 134.167 - 133.167      |                      |         |                      |      | 14.435               | -8.910              | 844.463              | 0.011                           |
|             | 133.167 - 132.167      |                      |         |                      |      | 14.561               | -8.997              | 851.809              | 0.011                           |
|             | 132.167 - 131.167      |                      |         |                      |      | 14.686               | -9.085              | 859.156              | 0.011                           |
|             | 131.167 - 130.167      |                      |         |                      |      | 14.812               | -9.174              | 866.502              | 0.011                           |
| L5          | 130.167 - 129.167      | TP19.43x18.65x0.25   | 5.000   | 0.000                | 0.0  | 14.938               | -12.812             | 873.848              | 0.015                           |
|             | 129.167 - 128.167      |                      |         |                      |      | 15.063               | -12.922             | 881.195              | 0.015                           |
|             | 128.167 - 127.167      |                      |         |                      |      | 15.189               | -13.034             | 888.541              | 0.015                           |
|             | 127.167 - 126.167      |                      |         |                      |      | 15.314               | -13.147             | 895.888              | 0.015                           |
|             | 126.167 - 125.167      |                      |         |                      |      | 15.440               | -13.263             | 903.234              | 0.015                           |
| L6          | 125.167 - 123.75 (6)   | TP19.651x19.43x0.25  | 1.417   | 0.000                | 0.0  | 15.618               | -13.424             | 913.644              | 0.015                           |
| L7          | 123.75 - 123.5 (7)     | TP19.69x19.651x0.513 | 0.250   | 0.000                | 0.0  | 31.648               | -13.481             | 1851.390             | 0.007                           |
| L8          | 123.5 - 122.5          | TP20.47x19.69x0.5    | 5.000   | 0.000                | 0.0  | 31.147               | -13.636             | 1822.110             | 0.007                           |
|             | 122.5 - 121.5          |                      |         |                      |      | 31.398               | -13.797             | 1836.800             | 0.008                           |
|             | 121.5 - 120.5          |                      |         |                      |      | 31.649               | -13.960             | 1851.490             | 0.008                           |
|             | 120.5 - 119.5          |                      |         |                      |      | 31.901               | -14.125             | 1866.190             | 0.008                           |
|             | 119.5 - 118.5          |                      |         |                      |      | 32.152               | -14.291             | 1880.880             | 0.008                           |
| L9          | 118.5 - 117.5          | TP21.25x20.47x0.488  | 5.000   | 0.000                | 0.0  | 31.612               | -14.676             | 1849.330             | 0.008                           |
|             | 117.5 - 116.5          |                      |         |                      |      | 31.857               | -15.063             | 1863.660             | 0.008                           |
|             | 116.5 - 115.5          |                      |         |                      |      | 32.102               | -15.452             | 1877.980             | 0.008                           |
|             | 115.5 - 114.5          |                      |         |                      |      | 32.347               | -15.842             | 1892.310             | 0.008                           |
|             | 114.5 - 113.5          |                      |         |                      |      | 32.592               | -16.233             | 1906.630             | 0.009                           |
| L10         | 113.5 - 112.167 (10)   | TP21.458x21.25x0.488 | 1.333   | 0.000                | 0.0  | 32.918               | -16.879             | 1925.730             | 0.009                           |
| L11         | 112.167 - 111.917 (11) | TP21.497x21.458x0.7  | 0.250   | 0.000                | 0.0  | 46.876               | -17.023             | 2742.270             | 0.006                           |
| L12         | 111.917 - 110.167 (12) | TP21.77x21.497x0.7   | 1.750   | 0.000                | 0.0  | 47.492               | -17.865             | 2778.270             | 0.006                           |
| L13         | 110.167 - 109.917 (13) | TP21.813x21.77x0.625 | 0.250   | 0.000                | 0.0  | 42.641               | -17.959             | 2494.480             | 0.007                           |
| L14         | 109.917 - 108.917      | TP22.672x21.813x0.6  | 5.000   | 0.000                | 0.0  | 41.315               | -18.479             | 2416.940             | 0.008                           |
|             | 108.917 - 107.917      |                      |         |                      |      | 41.647               | -19.009             | 2436.350             | 0.008                           |

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| Section No. | Elevation<br>ft      | Size                  | L<br>ft | L <sub>u</sub><br>ft | Kl/r | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|----------------------|-----------------------|---------|----------------------|------|----------------------|---------------------|----------------------|---------------------------------|
|             | 107.917 - 106.917    |                       |         |                      |      | 41.979               | -19.540             | 2455.760             | 0.008                           |
|             | 106.917 - 105.917    |                       |         |                      |      | 42.311               | -20.073             | 2475.170             | 0.008                           |
|             | 105.917 - 104.917    |                       |         |                      |      | 42.643               | -20.647             | 2494.590             | 0.008                           |
| L15         | 104.917 - 103.917    | TP23.53x22.672x0.588  | 5.000   | 0.000                | 0.0  | 42.103               | -21.003             | 2463.010             | 0.009                           |
|             | 103.917 - 102.917    |                       |         |                      |      | 42.428               | -21.362             | 2482.010             | 0.009                           |
|             | 102.917 - 101.917    |                       |         |                      |      | 42.752               | -21.722             | 2501.020             | 0.009                           |
|             | 101.917 - 100.917    |                       |         |                      |      | 43.077               | -22.084             | 2520.030             | 0.009                           |
|             | 100.917 - 99.917     |                       |         |                      |      | 43.402               | -22.448             | 2539.030             | 0.009                           |
| L16         | 99.917 - 98.6877     | TP24.375x23.53x0.575  | 4.917   | 0.000                | 0.0  | 42.893               | -22.744             | 2509.230             | 0.009                           |
|             | 98.6877 - 97.4585    |                       |         |                      |      | 43.284               | -23.046             | 2532.100             | 0.009                           |
|             | 97.4585 - 96.2292    |                       |         |                      |      | 43.675               | -23.351             | 2554.970             | 0.009                           |
|             | 96.2292 - 95         |                       |         |                      |      | 44.066               | -23.657             | 2577.840             | 0.009                           |
| L17         | 95 - 94.75 (17)      | TP24.418x24.375x0.7   | 0.250   | 0.000                | 0.0  | 53.460               | -23.738             | 3127.410             | 0.008                           |
| L18         | 94.75 - 93.75        | TP25.277x24.418x0.688 | 5.000   | 0.000                | 0.0  | 52.913               | -24.006             | 3095.430             | 0.008                           |
|             | 93.75 - 92.75        |                       |         |                      |      | 53.293               | -24.283             | 3117.670             | 0.008                           |
|             | 92.75 - 91.75        |                       |         |                      |      | 53.674               | -24.562             | 3139.910             | 0.008                           |
|             | 91.75 - 90.75        |                       |         |                      |      | 54.054               | -24.842             | 3162.160             | 0.008                           |
|             | 90.75 - 89.75        |                       |         |                      |      | 54.434               | -25.125             | 3184.400             | 0.008                           |
| L19         | 89.75 - 88.6875      | TP26.007x25.277x0.675 | 4.250   | 0.000                | 0.0  | 53.868               | -25.422             | 3151.290             | 0.008                           |
|             | 88.6875 - 87.625     |                       |         |                      |      | 53.868               | -233.796            | 3151.290             | 0.074                           |
|             | 87.625 - 86.5625     |                       |         |                      |      | 54.265               | -234.084            | 3174.500             | 0.074                           |
|             | 86.5625 - 85.5       |                       |         |                      |      | 54.661               | -234.373            | 3197.700             | 0.073                           |
| L20         | 85.5 - 85.25 (20)    | TP26.049x26.007x0.863 | 0.250   | 0.000                | 0.0  | 69.831               | -234.556            | 4085.130             | 0.057                           |
| L21         | 85.25 - 85 (21)      | TP26.092x26.049x0.863 | 0.250   | 0.000                | 0.0  | 69.951               | -234.595            | 4092.110             | 0.057                           |
| L22         | 85 - 84.75 (22)      | TP26.135x26.092x0.838 | 0.250   | 0.000                | 0.0  | 68.106               | -234.673            | 3984.220             | 0.059                           |
| L23         | 84.75 - 83 (23)      | TP26.436x26.135x0.838 | 1.750   | 0.000                | 0.0  | 68.222               | -234.750            | 3990.990             | 0.059                           |
| L24         | 83 - 82.65 (24)      | TP26.496x26.436x0.713 | 0.350   | 0.000                | 0.0  | 59.016               | -235.257            | 3452.440             | 0.068                           |
| L25         | 82.65 - 82.4167 (25) | TP26.536x26.496x0.713 | 0.233   | 0.000                | 0.0  | 59.154               | -235.358            | 3460.500             | 0.068                           |
| L26         | 82.4167 - 81.4167    | TP27.395x26.536x0.688 | 5.000   | 0.000                | 0.0  | 57.222               | -235.427            | 3347.510             | 0.070                           |
|             | 81.4167 - 80.4167    |                       |         |                      |      | 57.603               | -235.711            | 3369.750             | 0.070                           |
|             | 80.4167 - 79.4167    |                       |         |                      |      | 57.983               | -235.996            | 3391.990             | 0.070                           |
|             | 79.4167 - 78.4167    |                       |         |                      |      | 58.363               | -236.283            | 3414.240             | 0.069                           |
|             | 78.4167 - 77.4167    |                       |         |                      |      | 58.743               | -236.572            | 3436.480             | 0.069                           |
| L27         | 77.4167 - 76.1935    | TP28.64x27.395x0.688  | 7.250   | 0.000                | 0.0  | 59.123               | -236.863            | 3458.720             | 0.068                           |
|             | 76.1935 - 74.9702    |                       |         |                      |      | 59.589               | -239.948            | 3485.930             | 0.069                           |
|             | 74.9702 - 73.747     |                       |         |                      |      | 60.054               | -240.305            | 3513.140             | 0.068                           |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft        | Size                  | L<br>ft | L <sub>u</sub><br>ft | Kl/r | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|------------------------|-----------------------|---------|----------------------|------|----------------------|---------------------|----------------------|---------------------------------|
|             | 73.747 - 70.167        |                       |         |                      |      | 60.519               | -118.623            | 3540.340             | 0.034                           |
| L28         | 73.747 - 70.167        | TP28.079x27.4x0.725   | 4.580   | 0.000                | 0.0  | 62.273               | -122.043            | 3642.980             | 0.034                           |
|             | 70.167 - 69.167        |                       |         |                      |      | 63.513               | -242.775            | 3715.480             | 0.065                           |
| L29         | 69.167 - 68.167        | TP28.821x28.079x0.713 | 5.000   | 0.000                | 0.0  | 62.786               | -243.061            | 3673.010             | 0.066                           |
|             | 68.167 - 67.167        |                       |         |                      |      | 63.127               | -243.345            | 3692.910             | 0.066                           |
|             | 67.167 - 66.167        |                       |         |                      |      | 63.467               | -243.630            | 3712.810             | 0.066                           |
|             | 66.167 - 65.167        |                       |         |                      |      | 63.807               | -243.917            | 3732.720             | 0.065                           |
|             | 65.167 - 64.167        |                       |         |                      |      | 64.147               | -244.205            | 3752.620             | 0.065                           |
| L30         | 64.167 - 63.167        | TP29.562x28.821x0.725 | 5.000   | 0.000                | 0.0  | 65.590               | -244.494            | 3837.000             | 0.064                           |
|             | 63.167 - 62.167        |                       |         |                      |      | 65.936               | -244.781            | 3857.260             | 0.063                           |
|             | 62.167 - 61.167        |                       |         |                      |      | 66.282               | -245.070            | 3877.510             | 0.063                           |
|             | 61.167 - 60.167        |                       |         |                      |      | 66.629               | -245.360            | 3897.770             | 0.063                           |
|             | 60.167 - 59.167        |                       |         |                      |      | 66.975               | -245.651            | 3918.020             | 0.063                           |
| L31         | 59.167 - 58.167        | TP30.304x29.562x0.713 | 5.000   | 0.000                | 0.0  | 66.189               | -245.943            | 3872.050             | 0.064                           |
|             | 58.167 - 57.167        |                       |         |                      |      | 66.529               | -246.234            | 3891.950             | 0.063                           |
|             | 57.167 - 56.167        |                       |         |                      |      | 66.869               | -246.526            | 3911.860             | 0.063                           |
|             | 56.167 - 55.167        |                       |         |                      |      | 67.210               | -246.820            | 3931.760             | 0.063                           |
|             | 55.167 - 54.167        |                       |         |                      |      | 67.550               | -247.114            | 3951.670             | 0.063                           |
| L32         | 54.167 - 53.167        | TP31.045x30.304x0.7   | 5.000   | 0.000                | 0.0  | 66.727               | -247.410            | 3903.540             | 0.063                           |
|             | 53.167 - 52.167        |                       |         |                      |      | 67.062               | -247.705            | 3923.100             | 0.063                           |
|             | 52.167 - 51.167        |                       |         |                      |      | 67.396               | -248.001            | 3942.650             | 0.063                           |
|             | 51.167 - 50.167        |                       |         |                      |      | 67.730               | -248.298            | 3962.210             | 0.063                           |
|             | 50.167 - 49.167        |                       |         |                      |      | 68.064               | -248.596            | 3981.760             | 0.062                           |
| L33         | 49.167 - 48.1668       | TP31.342x31.045x0.7   | 2.000   | 0.000                | 0.0  | 68.399               | -248.896            | 4001.320             | 0.062                           |
|             | 48.1668 - 47.1667      |                       |         |                      |      | 68.733               | -249.195            | 4020.870             | 0.062                           |
| L34         | 47.1667 - 46.9167 (34) | TP31.379x31.342x0.788 | 0.250   | 0.000                | 0.0  | 77.479               | -249.494            | 4532.510             | 0.055                           |
| L35         | 46.9167 - 45.75        | TP31.898x31.379x0.775 | 3.500   | 0.000                | 0.0  | 76.373               | -249.578            | 4467.800             | 0.056                           |
|             | 45.75 - 44.5834        |                       |         |                      |      | 76.804               | -249.958            | 4493.060             | 0.056                           |
|             | 44.5834 - 43.4167      |                       |         |                      |      | 77.236               | -250.340            | 4518.320             | 0.055                           |
| L36         | 43.4167 - 43.1667 (36) | TP31.935x31.898x0.65  | 0.250   | 0.000                | 0.0  | 65.402               | -250.722            | 3826.050             | 0.066                           |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft   | Size                  | L<br>ft | L <sub>u</sub><br>ft | Kl/r | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>$\frac{P_u}{\phi P_n}$ |
|-------------|-------------------|-----------------------|---------|----------------------|------|----------------------|---------------------|----------------------|---------------------------------|
| L37         | 43.1667 - 42.1667 | TP32.677x31.935x0.65  | 5.000   | 0.000                | 0.0  | 65.480               | -250.797            | 3830.590             | 0.065                           |
|             | 42.1667 - 41.1667 |                       |         |                      |      | 65.790               | -251.089            | 3848.740             | 0.065                           |
|             | 41.1667 - 40.1667 |                       |         |                      |      | 66.101               | -251.383            | 3866.900             | 0.065                           |
|             | 40.1667 - 39.1667 |                       |         |                      |      | 66.411               | -251.677            | 3885.060             | 0.065                           |
|             | 39.1667 - 38.1667 |                       |         |                      |      | 66.722               | -251.973            | 3903.220             | 0.065                           |
| L38         | 38.1667 - 36.9569 | TP33.66x32.677x0.65   | 6.630   | 0.000                | 0.0  | 67.032               | -252.270            | 3921.380             | 0.064                           |
|             | 36.9569 - 35.747  |                       |         |                      |      | 67.408               | -252.630            | 3943.350             | 0.064                           |
|             | 35.747 - 31.537   |                       |         |                      |      | 67.783               | -152.128            | 3965.310             | 0.038                           |
| L39         | 35.747 - 31.537   | TP33.161x32.286x0.438 | 5.210   | 0.000                | 0.0  | 44.866               | -100.866            | 2624.670             | 0.038                           |
|             | 31.537 - 30.537   |                       |         |                      |      | 45.862               | -255.033            | 2682.940             | 0.095                           |
| L40         | 30.537 - 29.537   | TP34.001x33.161x0.438 | 5.000   | 0.000                | 0.0  | 46.099               | -255.262            | 2696.790             | 0.095                           |
|             | 29.537 - 28.537   |                       |         |                      |      | 46.335               | -255.491            | 2710.630             | 0.094                           |
|             | 28.537 - 27.537   |                       |         |                      |      | 46.572               | -255.721            | 2724.470             | 0.094                           |
|             | 27.537 - 26.537   |                       |         |                      |      | 46.809               | -255.952            | 2738.310             | 0.093                           |
|             | 26.537 - 25.537   |                       |         |                      |      | 47.045               | -256.184            | 2752.160             | 0.093                           |
| L41         | 25.537 - 24.537   | TP34.84x34.001x0.438  | 5.000   | 0.000                | 0.0  | 47.282               | -256.416            | 2766.000             | 0.093                           |
|             | 24.537 - 23.537   |                       |         |                      |      | 47.519               | -256.650            | 2779.840             | 0.092                           |
|             | 23.537 - 22.537   |                       |         |                      |      | 47.755               | -256.884            | 2793.680             | 0.092                           |
|             | 22.537 - 21.537   |                       |         |                      |      | 47.992               | -257.119            | 2807.530             | 0.092                           |
|             | 21.537 - 20.537   |                       |         |                      |      | 48.229               | -257.472            | 2821.370             | 0.091                           |
| L42         | 20.537 - 19.537   | TP35.68x34.84x0.438   | 5.000   | 0.000                | 0.0  | 48.465               | -257.709            | 2835.210             | 0.091                           |
|             | 19.537 - 18.537   |                       |         |                      |      | 48.702               | -257.947            | 2849.050             | 0.091                           |
|             | 18.537 - 17.537   |                       |         |                      |      | 48.938               | -258.185            | 2862.900             | 0.090                           |
|             | 17.537 - 16.537   |                       |         |                      |      | 49.175               | -258.425            | 2876.740             | 0.090                           |
|             | 16.537 - 15.537   |                       |         |                      |      | 49.412               | -258.665            | 2890.580             | 0.089                           |
| L43         | 15.537 - 14.537   | TP36.52x35.68x0.438   | 5.000   | 0.000                | 0.0  | 49.648               | -258.906            | 2904.420             | 0.089                           |
|             | 14.537 - 13.537   |                       |         |                      |      | 49.885               | -259.148            | 2918.270             | 0.089                           |
|             | 13.537 - 12.537   |                       |         |                      |      | 50.121               | -259.391            | 2932.110             | 0.088                           |
|             | 12.537 - 11.537   |                       |         |                      |      | 50.358               | -259.635            | 2945.950             | 0.088                           |
|             | 11.537 - 10.537   |                       |         |                      |      | 50.595               | -259.880            | 2959.790             | 0.088                           |



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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft | Size                | L<br>ft | L <sub>u</sub><br>ft | Kl/r | A<br>in <sup>2</sup> | P <sub>u</sub><br>K | φP <sub>n</sub><br>K | Ratio<br>P <sub>u</sub> /<br>φP <sub>n</sub> |
|-------------|-----------------|---------------------|---------|----------------------|------|----------------------|---------------------|----------------------|--|
| L44         | 10.537 - 9.537  | TP37.36x36.52x0.438 | 5.000   | 0.000                | 0.0  | 50.831               | -260.126            | 2973.640             | 0.087  |
|             | 9.537 - 8.537   |                     |         |                      |      | 51.068               | -260.372            | 2987.480             | 0.087  |
|             | 8.537 - 7.537   |                     |         |                      |      | 51.305               | -260.620            | 3001.320             | 0.087  |
|             | 7.537 - 6.537   |                     |         |                      |      | 51.541               | -260.868            | 3015.160             | 0.087  |
|             | 6.537 - 5.537   |                     |         |                      |      | 51.778               | -261.117            | 3029.010             | 0.086  |
| L45         | 5.537 - 4.537   | TP38.2x37.36x0.438  | 5.000   | 0.000                | 0.0  | 52.014               | -261.367            | 3042.850             | 0.086  |
|             | 4.537 - 3.537   |                     |         |                      |      | 52.251               | -261.618            | 3056.690             | 0.086  |
|             | 3.537 - 2.537   |                     |         |                      |      | 52.488               | -261.870            | 3070.530             | 0.085  |
|             | 2.537 - 1.537   |                     |         |                      |      | 52.724               | -262.123            | 3084.380             | 0.085  |
|             | 1.537 - 0.537   |                     |         |                      |      | 52.961               | -262.377            | 3098.220             | 0.085  |
| L46         | 0.537 - 0 (46)  | TP38.29x38.2x0.438  | 0.537   | 0.000                | 0.0  | 53.198               | -262.632            | 3112.060             | 0.084  |

### Pole Bending Design Data

| Section No. | Elevation<br>ft   | Size               | M <sub>ux</sub><br>kip-ft | φM <sub>ux</sub><br>kip-ft | Ratio<br>M <sub>ux</sub> /<br>φM <sub>ux</sub> | M <sub>uy</sub><br>kip-ft | φM <sub>uy</sub><br>kip-ft | Ratio<br>M <sub>uy</sub> /<br>φM <sub>uy</sub> |
|-------------|-------------------|--------------------|---------------------------|----------------------------|--|---------------------------|----------------------------|--|
| L1          | 150.167 - 149.167 | TP16.31x15.53x0.25 | 0.925                     | 285.687                    | 0.003  | 0.000                     | 285.687                    | 0.000  |
|             | 149.167 - 148.167 |                    | 9.469                     | 291.537                    | 0.032  | 0.000                     | 291.537                    | 0.000  |
|             | 148.167 - 147.167 |                    | 15.517                    | 297.446                    | 0.052  | 0.000                     | 297.446                    | 0.000  |
|             | 147.167 - 146.167 |                    | 21.628                    | 303.414                    | 0.071  | 0.000                     | 303.414                    | 0.000  |
|             | 146.167 - 145.167 |                    | 27.803                    | 309.443                    | 0.090  | 0.000                     | 309.443                    | 0.000  |
|             | 145.167 - 144.167 |                    | 34.042                    | 315.530                    | 0.108  | 0.000                     | 315.530                    | 0.000  |
|             | 144.167 - 143.167 |                    | 40.345                    | 321.677                    | 0.125  | 0.000                     | 321.677                    | 0.000  |
| L2          | 143.167 - 142.167 | TP17.09x16.31x0.25 | 46.712                    | 327.882                    | 0.142  | 0.000                     | 327.882                    | 0.000  |
|             | 142.167 - 141.167 |                    | 53.143                    | 334.147                    | 0.159  | 0.000                     | 334.147                    | 0.000  |
|             | 141.167 - 140.167 |                    | 59.639                    | 340.472                    | 0.175  | 0.000                     | 340.472                    | 0.000  |
|             | 140.167 - 139.167 |                    | 70.576                    | 346.856                    | 0.203  | 0.000                     | 346.856                    | 0.000  |
|             | 139.167 - 138.167 |                    | 80.218                    | 353.299                    | 0.227  | 0.000                     | 353.299                    | 0.000  |
|             | 138.167 - 137.167 |                    | 89.923                    | 359.802                    | 0.250  | 0.000                     | 359.802                    | 0.000  |
|             | 137.167 - 136.167 |                    | 99.692                    | 366.363                    | 0.272  | 0.000                     | 366.363                    | 0.000  |
| L3          | 136.167 - 135.167 | TP17.87x17.09x0.25 | 109.526                   | 372.984                    | 0.294  | 0.000                     | 372.984                    | 0.000  |
|             | 135.167 - 134.167 |                    | 119.420                   | 379.664                    | 0.315  | 0.000                     | 379.664                    | 0.000  |
|             | 134.167 - 133.167 |                    | 129.392                   | 386.404                    | 0.335  | 0.000                     | 386.404                    | 0.000  |
|             | 133.167 - 132.167 |                    | 139.421                   | 393.203                    | 0.355  | 0.000                     | 393.203                    | 0.000  |
|             | 132.167 - 131.167 |                    | 149.512                   | 400.062                    | 0.374  | 0.000                     | 400.062                    | 0.000  |
|             | 131.167 -         |                    | 159.666                   | 406.979                    | 0.392  | 0.000                     | 406.979                    | 0.000  |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft        | Size                 | $M_{ux}$<br>kip-ft | $\phi M_{rx}$<br>kip-ft | Ratio<br>$\frac{M_{ux}}{\phi M_{rx}}$ | $M_{uy}$<br>kip-ft | $\phi M_{ry}$<br>kip-ft | Ratio<br>$\frac{M_{uy}}{\phi M_{ry}}$ |
|-------------|------------------------|----------------------|--------------------|-------------------------|---------------------------------------|--------------------|-------------------------|---------------------------------------|
| L5          | 130.167                | TP19.43x18.65x0.25   | 181.764            | 413.956                 | 0.439                                 | 0.000              | 413.956                 | 0.000                                 |
|             | 130.167 - 129.167      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 129.167 - 128.167      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 128.167 - 127.167      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 127.167 - 126.167      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 126.167 - 125.167      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 125.167 - 123.75 (6)   |                      |                    |                         |                                       |                    |                         |                                       |
| L6          | 123.75 - 123.5 (7)     | TP19.651x19.43x0.25  | 265.621            | 452.780                 | 0.587                                 | 0.000              | 452.780                 | 0.000                                 |
| L7          | 123.5 - 122.5          | TP19.69x19.651x0.513 | 269.539            | 894.717                 | 0.301                                 | 0.000              | 894.717                 | 0.000                                 |
| L8          | 122.5 - 121.5          | TP20.47x19.69x0.5    | 285.212            | 889.058                 | 0.321                                 | 0.000              | 889.058                 | 0.000                                 |
|             | 121.5 - 120.5          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 120.5 - 119.5          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 119.5 - 118.5          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 118.5 - 117.5          |                      |                    |                         |                                       |                    |                         |                                       |
| L9          | 117.5 - 116.5          | TP21.25x20.47x0.488  | 364.667            | 940.808                 | 0.388                                 | 0.000              | 940.808                 | 0.000                                 |
|             | 116.5 - 115.5          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 115.5 - 114.5          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 114.5 - 113.5          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 113.5 - 112.167 (10)   |                      |                    |                         |                                       |                    |                         |                                       |
| L10         | 112.167 - 111.917 (11) | TP21.458x21.25x0.488 | 451.981            | 1021.100                | 0.443                                 | 0.000              | 1021.100                | 0.000                                 |
| L11         | 111.917 - 110.167 (12) | TP21.497x21.458x0.7  | 456.168            | 1427.508                | 0.320                                 | 0.000              | 1427.508                | 0.000                                 |
| L12         | 110.167 - 109.917 (13) | TP21.77x21.497x0.7   | 485.604            | 1465.850                | 0.331                                 | 0.000              | 1465.850                | 0.000                                 |
| L13         | 109.917 - 108.917      | TP21.813x21.77x0.625 | 489.848            | 1328.275                | 0.369                                 | 0.000              | 1328.275                | 0.000                                 |
| L14         | 108.917 - 107.917      | TP22.672x21.813x0.6  | 506.858            | 1300.758                | 0.390                                 | 0.000              | 1300.758                | 0.000                                 |
|             | 107.917 - 106.917      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 106.917 - 105.917      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 105.917 - 104.917      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 104.917 - 103.917      |                      |                    |                         |                                       |                    |                         |                                       |
| L15         | 103.917 - 102.917      | TP23.53x22.672x0.588 | 594.422            | 1381.792                | 0.430                                 | 0.000              | 1381.792                | 0.000                                 |
|             | 102.917 - 101.917      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 101.917 - 100.917      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 100.917 - 99.917       |                      |                    |                         |                                       |                    |                         |                                       |
|             | 99.917 - 98.6877       |                      |                    |                         |                                       |                    |                         |                                       |
| L16         | 98.6877 - 97.4585      | TP24.375x23.53x0.575 | 690.202            | 1467.575                | 0.470                                 | 0.000              | 1467.575                | 0.000                                 |
|             | 97.4585 - 96.2292      |                      |                    |                         |                                       |                    |                         |                                       |
|             | 96.2292 - 95           |                      |                    |                         |                                       |                    |                         |                                       |
|             | 95                     |                      |                    |                         |                                       |                    |                         |                                       |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft      | Size                  | $M_{ux}$ | $\phi M_{rx}$ | Ratio                        | $M_{uy}$ | $\phi M_{ry}$ | Ratio                        |
|-------------|----------------------|-----------------------|----------|---------------|------------------------------|----------|---------------|------------------------------|
|             |                      |                       | kip-ft   | kip-ft        | $\frac{M_{ux}}{\phi M_{rx}}$ | kip-ft   | kip-ft        | $\frac{M_{uy}}{\phi M_{ry}}$ |
| L17         | 95 - 94.75 (17)      | TP24.418x24.375x0.7   | 763.694  | 1864.125      | 0.410                        | 0.000    | 1864.125      | 0.000                        |
| L18         | 94.75 - 93.75        | TP25.277x24.418x0.688 | 782.532  | 1860.750      | 0.421                        | 0.000    | 1860.750      | 0.000                        |
|             | 93.75 - 92.75        |                       | 801.465  | 1887.958      | 0.425                        | 0.000    | 1887.958      | 0.000                        |
|             | 92.75 - 91.75        |                       | 820.489  | 1915.375      | 0.428                        | 0.000    | 1915.375      | 0.000                        |
|             | 91.75 - 90.75        |                       | 839.608  | 1942.983      | 0.432                        | 0.000    | 1942.983      | 0.000                        |
|             | 90.75 - 89.75        |                       | 858.808  | 1970.792      | 0.436                        | 0.000    | 1970.792      | 0.000                        |
| L19         | 89.75 - 88.6875      | TP26.007x25.277x0.675 | 879.317  | 1967.150      | 0.447                        | 0.000    | 1967.150      | 0.000                        |
|             | 88.6875 - 87.625     |                       | 834.083  | 1967.150      | 0.424                        | 0.000    | 1967.150      | 0.000                        |
|             | 87.625 - 86.5625     |                       | 841.375  | 1996.608      | 0.421                        | 0.000    | 1996.608      | 0.000                        |
|             | 86.5625 - 85.5       |                       | 848.642  | 2026.292      | 0.419                        | 0.000    | 2026.292      | 0.000                        |
| L20         | 85.5 - 85.25 (20)    | TP26.049x26.007x0.863 | 855.867  | 2569.450      | 0.333                        | 0.000    | 2569.450      | 0.000                        |
| L21         | 85.25 - 85 (21)      | TP26.092x26.049x0.863 | 857.567  | 2578.375      | 0.333                        | 0.000    | 2578.375      | 0.000                        |
| L22         | 85 - 84.75 (22)      | TP26.135x26.092x0.838 | 859.275  | 2519.800      | 0.341                        | 0.000    | 2519.800      | 0.000                        |
| L23         | 84.75 - 83 (23)      | TP26.436x26.135x0.838 | 860.983  | 2528.517      | 0.341                        | 0.000    | 2528.517      | 0.000                        |
| L24         | 83 - 82.65 (24)      | TP26.496x26.436x0.713 | 872.925  | 2235.808      | 0.390                        | 0.000    | 2235.808      | 0.000                        |
| L25         | 82.65 - 82.4167 (25) | TP26.536x26.496x0.713 | 875.317  | 2246.408      | 0.390                        | 0.000    | 2246.408      | 0.000                        |
| L26         | 82.4167 - 81.4167    | TP27.395x26.536x0.688 | 876.917  | 2180.742      | 0.402                        | 0.000    | 2180.742      | 0.000                        |
|             | 81.4167 - 80.4167    |                       | 883.717  | 2210.200      | 0.400                        | 0.000    | 2210.200      | 0.000                        |
|             | 80.4167 - 79.4167    |                       | 890.483  | 2239.850      | 0.398                        | 0.000    | 2239.850      | 0.000                        |
|             | 79.4167 - 78.4167    |                       | 897.208  | 2269.700      | 0.395                        | 0.000    | 2269.700      | 0.000                        |
|             | 78.4167 - 77.4167    |                       | 903.900  | 2299.742      | 0.393                        | 0.000    | 2299.742      | 0.000                        |
| L27         | 77.4167 - 76.1935    | TP28.64x27.395x0.688  | 910.550  | 2329.992      | 0.391                        | 0.000    | 2329.992      | 0.000                        |
|             | 76.1935 - 74.9702    |                       | 917.158  | 2367.250      | 0.387                        | 0.000    | 2367.250      | 0.000                        |
|             | 74.9702 - 73.747     |                       | 928.083  | 2404.817      | 0.386                        | 0.000    | 2404.817      | 0.000                        |
|             | 73.747 - 70.167      |                       | 475.386  | 2442.675      | 0.195                        | 0.000    | 2442.675      | 0.000                        |
| L28         | 73.747 - 70.167      | TP28.079x27.4x0.725   | 463.472  | 2447.725      | 0.189                        | 0.000    | 2447.725      | 0.000                        |
|             | 70.167 - 69.167      |                       | 971.825  | 2547.442      | 0.381                        | 0.000    | 2547.442      | 0.000                        |
| L29         | 69.167 - 68.167      | TP28.821x28.079x0.713 | 981.508  | 2534.717      | 0.387                        | 0.000    | 2534.717      | 0.000                        |
|             | 68.167 - 67.167      |                       | 991.092  | 2562.617      | 0.387                        | 0.000    | 2562.617      | 0.000                        |
|             | 67.167 - 66.167      |                       | 1000.575 | 2590.667      | 0.386                        | 0.000    | 2590.667      | 0.000                        |
|             | 66.167 - 65.167      |                       | 1009.950 | 2618.867      | 0.386                        | 0.000    | 2618.867      | 0.000                        |
|             | 65.167 - 64.167      |                       | 1019.233 | 2647.225      | 0.385                        | 0.000    | 2647.225      | 0.000                        |
| L30         | 64.167 - 63.167      | TP29.562x28.821x0.725 | 1028.408 | 2719.042      | 0.378                        | 0.000    | 2719.042      | 0.000                        |
|             | 63.167 - 62.167      |                       | 1037.492 | 2748.183      | 0.378                        | 0.000    | 2748.183      | 0.000                        |
|             | 62.167 - 61.167      |                       | 1046.483 | 2777.483      | 0.377                        | 0.000    | 2777.483      | 0.000                        |
|             | 61.167 -             |                       | 1055.383 | 2806.942      | 0.376                        | 0.000    | 2806.942      | 0.000                        |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft        | Size                  | $M_{ux}$<br>kip-ft | $\phi M_{rx}$<br>kip-ft | Ratio<br>$\frac{M_{ux}}{\phi M_{rx}}$ | $M_{uy}$<br>kip-ft | $\phi M_{ry}$<br>kip-ft | Ratio<br>$\frac{M_{uy}}{\phi M_{ry}}$ |
|-------------|------------------------|-----------------------|--------------------|-------------------------|---------------------------------------|--------------------|-------------------------|---------------------------------------|
|             | 60.167                 |                       |                    |                         |                                       |                    |                         |                                       |
|             | 60.167 - 59.167        |                       | 1064.183           | 2836.550                | 0.375                                 | 0.000              | 2836.550                | 0.000                                 |
| L31         | 59.167 - 58.167        | TP30.304x29.562x0.713 | 1072.900           | 2820.558                | 0.380                                 | 0.000              | 2820.558                | 0.000                                 |
|             | 58.167 - 57.167        |                       | 1081.525           | 2849.983                | 0.379                                 | 0.000              | 2849.983                | 0.000                                 |
|             | 57.167 - 56.167        |                       | 1090.050           | 2879.558                | 0.379                                 | 0.000              | 2879.558                | 0.000                                 |
|             | 56.167 - 55.167        |                       | 1098.492           | 2909.292                | 0.378                                 | 0.000              | 2909.292                | 0.000                                 |
|             | 55.167 - 54.167        |                       | 1106.842           | 2939.167                | 0.377                                 | 0.000              | 2939.167                | 0.000                                 |
| L32         | 54.167 - 53.167        | TP31.045x30.304x0.7   | 1115.100           | 2920.817                | 0.382                                 | 0.000              | 2920.817                | 0.000                                 |
|             | 53.167 - 52.167        |                       | 1123.275           | 2950.492                | 0.381                                 | 0.000              | 2950.492                | 0.000                                 |
|             | 52.167 - 51.167        |                       | 1131.350           | 2980.317                | 0.380                                 | 0.000              | 2980.317                | 0.000                                 |
|             | 51.167 - 50.167        |                       | 1139.342           | 3010.292                | 0.378                                 | 0.000              | 3010.292                | 0.000                                 |
|             | 50.167 - 49.167        |                       | 1147.250           | 3040.425                | 0.377                                 | 0.000              | 3040.425                | 0.000                                 |
| L33         | 49.167 - 48.1668       | TP31.342x31.045x0.7   | 1155.067           | 3070.700                | 0.376                                 | 0.000              | 3070.700                | 0.000                                 |
|             | 48.1668 - 47.1667      |                       | 1162.792           | 3101.133                | 0.375                                 | 0.000              | 3101.133                | 0.000                                 |
| L34         | 47.1667 - 46.9167 (34) | TP31.379x31.342x0.788 | 1170.433           | 3493.083                | 0.335                                 | 0.000              | 3493.083                | 0.000                                 |
| L35         | 46.9167 - 45.75        | TP31.898x31.379x0.775 | 1172.342           | 3450.317                | 0.340                                 | 0.000              | 3450.317                | 0.000                                 |
|             | 45.75 - 44.5834        |                       | 1181.142           | 3489.925                | 0.338                                 | 0.000              | 3489.925                | 0.000                                 |
|             | 44.5834 - 43.4167      |                       | 1189.858           | 3529.758                | 0.337                                 | 0.000              | 3529.758                | 0.000                                 |
| L36         | 43.4167 - 43.1667 (36) | TP31.935x31.898x0.65  | 1198.475           | 3030.258                | 0.396                                 | 0.000              | 3030.258                | 0.000                                 |
| L37         | 43.1667 - 42.1667      | TP32.677x31.935x0.65  | 1200.317           | 3037.525                | 0.395                                 | 0.000              | 3037.525                | 0.000                                 |
|             | 42.1667 - 41.1667      |                       | 1207.600           | 3066.683                | 0.394                                 | 0.000              | 3066.683                | 0.000                                 |
|             | 41.1667 - 40.1667      |                       | 1214.792           | 3095.983                | 0.392                                 | 0.000              | 3095.983                | 0.000                                 |
|             | 40.1667 - 39.1667      |                       | 1221.892           | 3125.425                | 0.391                                 | 0.000              | 3125.425                | 0.000                                 |
|             | 39.1667 - 38.1667      |                       | 1228.900           | 3155.008                | 0.390                                 | 0.000              | 3155.008                | 0.000                                 |
| L38         | 38.1667 - 36.9569      | TP33.66x32.677x0.65   | 1235.817           | 3184.725                | 0.388                                 | 0.000              | 3184.725                | 0.000                                 |
|             | 36.9569 - 35.747       |                       | 1244.067           | 3220.867                | 0.386                                 | 0.000              | 3220.867                | 0.000                                 |
|             | 35.747 - 31.537        |                       | 762.200            | 3257.208                | 0.234                                 | 0.000              | 3257.208                | 0.000                                 |
| L39         | 35.747 - 31.537        | TP33.161x32.286x0.438 | 489.990            | 2133.433                | 0.230                                 | 0.000              | 2133.433                | 0.000                                 |
|             | 31.537 - 30.537        |                       | 1280.117           | 2229.875                | 0.574                                 | 0.000              | 2229.875                | 0.000                                 |
| L40         | 30.537 - 29.537        | TP34.001x33.161x0.438 | 1286.633           | 2253.100                | 0.571                                 | 0.000              | 2253.100                | 0.000                                 |
|             | 29.537 - 29.537        |                       | 1292.975           | 2276.442                | 0.568                                 | 0.000              | 2276.442                | 0.000                                 |

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| Section No. | Elevation<br>ft | Size                 | $M_{ux}$<br>kip-ft | $\phi M_{nx}$<br>kip-ft | Ratio<br>$\frac{M_{ux}}{\phi M_{nx}}$ | $M_{uy}$<br>kip-ft | $\phi M_{ny}$<br>kip-ft | Ratio<br>$\frac{M_{uy}}{\phi M_{ny}}$ |
|-------------|-----------------|----------------------|--------------------|-------------------------|---------------------------------------|--------------------|-------------------------|---------------------------------------|
|             | 28.537          |                      |                    |                         |                                       |                    |                         |                                       |
|             | 28.537 - 27.537 |                      | 1299.133           | 2299.908                | 0.565                                 | 0.000              | 2299.908                | 0.000                                 |
|             | 27.537 - 26.537 |                      | 1305.125           | 2323.492                | 0.562                                 | 0.000              | 2323.492                | 0.000                                 |
|             | 26.537 - 25.537 |                      | 1310.950           | 2347.192                | 0.559                                 | 0.000              | 2347.192                | 0.000                                 |
| L41         | 25.537 - 24.537 | TP34.84x34.001x0.438 | 1316.600           | 2371.017                | 0.555                                 | 0.000              | 2371.017                | 0.000                                 |
|             | 24.537 - 23.537 |                      | 1322.083           | 2394.967                | 0.552                                 | 0.000              | 2394.967                | 0.000                                 |
|             | 23.537 - 22.537 |                      | 1327.408           | 2419.025                | 0.549                                 | 0.000              | 2419.025                | 0.000                                 |
|             | 22.537 - 21.537 |                      | 1332.567           | 2443.217                | 0.545                                 | 0.000              | 2443.217                | 0.000                                 |
|             | 21.537 - 20.537 |                      | 1337.367           | 2467.517                | 0.542                                 | 0.000              | 2467.517                | 0.000                                 |
| L42         | 20.537 - 19.537 | TP35.68x34.84x0.438  | 1342.300           | 2491.942                | 0.539                                 | 0.000              | 2491.942                | 0.000                                 |
|             | 19.537 - 18.537 |                      | 1347.075           | 2516.492                | 0.535                                 | 0.000              | 2516.492                | 0.000                                 |
|             | 18.537 - 17.537 |                      | 1351.708           | 2541.158                | 0.532                                 | 0.000              | 2541.158                | 0.000                                 |
|             | 17.537 - 16.537 |                      | 1356.183           | 2565.942                | 0.529                                 | 0.000              | 2565.942                | 0.000                                 |
|             | 16.537 - 15.537 |                      | 1360.525           | 2590.850                | 0.525                                 | 0.000              | 2590.850                | 0.000                                 |
| L43         | 15.537 - 14.537 | TP36.52x35.68x0.438  | 1364.717           | 2615.875                | 0.522                                 | 0.000              | 2615.875                | 0.000                                 |
|             | 14.537 - 13.537 |                      | 1368.767           | 2641.025                | 0.518                                 | 0.000              | 2641.025                | 0.000                                 |
|             | 13.537 - 12.537 |                      | 1372.683           | 2666.292                | 0.515                                 | 0.000              | 2666.292                | 0.000                                 |
|             | 12.537 - 11.537 |                      | 1376.467           | 2691.683                | 0.511                                 | 0.000              | 2691.683                | 0.000                                 |
|             | 11.537 - 10.537 |                      | 1380.117           | 2717.192                | 0.508                                 | 0.000              | 2717.192                | 0.000                                 |
| L44         | 10.537 - 9.537  | TP37.36x36.52x0.438  | 1383.633           | 2738.708                | 0.505                                 | 0.000              | 2738.708                | 0.000                                 |
|             | 9.537 - 8.537   |                      | 1387.025           | 2760.625                | 0.502                                 | 0.000              | 2760.625                | 0.000                                 |
|             | 8.537 - 7.537   |                      | 1390.292           | 2782.592                | 0.500                                 | 0.000              | 2782.592                | 0.000                                 |
|             | 7.537 - 6.537   |                      | 1393.433           | 2804.600                | 0.497                                 | 0.000              | 2804.600                | 0.000                                 |
|             | 6.537 - 5.537   |                      | 1396.458           | 2826.667                | 0.494                                 | 0.000              | 2826.667                | 0.000                                 |
| L45         | 5.537 - 4.537   | TP38.2x37.36x0.438   | 1399.367           | 2848.775                | 0.491                                 | 0.000              | 2848.775                | 0.000                                 |
|             | 4.537 - 3.537   |                      | 1402.150           | 2870.933                | 0.488                                 | 0.000              | 2870.933                | 0.000                                 |
|             | 3.537 - 2.537   |                      | 1404.825           | 2893.142                | 0.486                                 | 0.000              | 2893.142                | 0.000                                 |
|             | 2.537 - 1.537   |                      | 1407.392           | 2915.392                | 0.483                                 | 0.000              | 2915.392                | 0.000                                 |
|             | 1.537 - 0.537   |                      | 1409.850           | 2937.692                | 0.480                                 | 0.000              | 2937.692                | 0.000                                 |
| L46         | 0.537 - 0 (46)  | TP38.29x38.2x0.438   | 1412.200           | 2960.033                | 0.477                                 | 0.000              | 2960.033                | 0.000                                 |

### Pole Shear Design Data

| Section No. | Elevation<br>ft   | Size               | Actual<br>$V_u$<br>K | $\phi V_n$<br>K | Ratio<br>$\frac{V_u}{\phi V_n}$ | Actual<br>$T_u$<br>kip-ft | $\phi T_n$<br>kip-ft | Ratio<br>$\frac{T_u}{\phi T_n}$ |
|-------------|-------------------|--------------------|----------------------|-----------------|---------------------------------|---------------------------|----------------------|---------------------------------|
| L1          | 150.167 - 149.167 | TP16.31x15.53x0.25 | 0.569                | 218.076         | 0.003                           | 0.003                     | 296.103              | 0.000                           |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft      | Size                 | Actual<br>$V_u$<br>K | $\phi V_n$<br>K | Ratio<br>$\frac{V_u}{\phi V_n}$ | Actual<br>$T_u$<br>kip-ft | $\phi T_n$<br>kip-ft | Ratio<br>$\frac{T_u}{\phi T_n}$ |
|-------------|----------------------|----------------------|----------------------|-----------------|---------------------------------|---------------------------|----------------------|---------------------------------|
|             | 149.167 - 148.167    |                      | 6.019                | 220.280         | 0.027                           | 0.431                     | 302.118              | 0.001                           |
|             | 148.167 - 147.167    |                      | 6.082                | 222.484         | 0.027                           | 0.431                     | 308.193              | 0.001                           |
|             | 147.167 - 146.167    |                      | 6.146                | 224.688         | 0.027                           | 0.431                     | 314.330              | 0.001                           |
|             | 146.167 - 145.167    |                      | 6.210                | 226.892         | 0.027                           | 0.431                     | 320.527              | 0.001                           |
| L2          | 145.167 - 144.167    | TP17.09x16.31x0.25   | 6.274                | 229.096         | 0.027                           | 0.431                     | 326.783              | 0.001                           |
|             | 144.167 - 143.167    |                      | 6.338                | 231.300         | 0.027                           | 0.431                     | 333.102              | 0.001                           |
|             | 143.167 - 142.167    |                      | 6.402                | 233.503         | 0.027                           | 0.431                     | 339.479              | 0.001                           |
|             | 142.167 - 141.167    |                      | 6.467                | 235.707         | 0.027                           | 0.431                     | 345.918              | 0.001                           |
|             | 141.167 - 140.167    |                      | 6.532                | 237.911         | 0.027                           | 0.430                     | 352.418              | 0.001                           |
| L3          | 140.167 - 139.167    | TP17.87x17.09x0.25   | 9.626                | 240.115         | 0.040                           | 0.430                     | 358.977              | 0.001                           |
|             | 139.167 - 138.167    |                      | 9.690                | 242.319         | 0.040                           | 0.430                     | 365.597              | 0.001                           |
|             | 138.167 - 137.167    |                      | 9.754                | 244.523         | 0.040                           | 0.430                     | 372.277              | 0.001                           |
|             | 137.167 - 136.167    |                      | 9.818                | 246.727         | 0.040                           | 0.429                     | 379.018              | 0.001                           |
|             | 136.167 - 135.167    |                      | 9.881                | 248.931         | 0.040                           | 0.429                     | 385.820              | 0.001                           |
| L4          | 135.167 - 134.167    | TP18.65x17.87x0.25   | 9.945                | 251.135         | 0.040                           | 0.429                     | 392.682              | 0.001                           |
|             | 134.167 - 133.167    |                      | 10.016               | 253.339         | 0.040                           | 0.429                     | 399.604              | 0.001                           |
|             | 133.167 - 132.167    |                      | 10.079               | 255.543         | 0.039                           | 0.397                     | 406.587              | 0.001                           |
|             | 132.167 - 131.167    |                      | 10.142               | 257.747         | 0.039                           | 0.397                     | 413.631              | 0.001                           |
|             | 131.167 - 130.167    |                      | 10.204               | 259.951         | 0.039                           | 0.397                     | 420.735              | 0.001                           |
| L5          | 130.167 - 129.167    | TP19.43x18.65x0.25   | 15.349               | 262.155         | 0.059                           | 0.742                     | 427.899              | 0.002                           |
|             | 129.167 - 128.167    |                      | 15.406               | 264.358         | 0.058                           | 0.742                     | 435.124              | 0.002                           |
|             | 128.167 - 127.167    |                      | 15.463               | 266.562         | 0.058                           | 0.741                     | 442.410              | 0.002                           |
|             | 127.167 - 126.167    |                      | 15.519               | 268.766         | 0.058                           | 0.741                     | 449.756              | 0.002                           |
|             | 126.167 - 125.167    |                      | 15.574               | 270.970         | 0.057                           | 0.740                     | 457.162              | 0.002                           |
| L6          | 125.167 - 123.75 (6) | TP19.651x19.43x0.25  | 15.654               | 274.093         | 0.057                           | 0.740                     | 467.760              | 0.002                           |
| L7          | 123.75 - 123.5 (7)   | TP19.69x19.651x0.513 | 15.732               | 555.418         | 0.028                           | 0.739                     | 936.942              | 0.001                           |
| L8          | 123.5 - 122.5        | TP20.47x19.69x0.5    | 15.735               | 546.632         | 0.029                           | 0.739                     | 930.225              | 0.001                           |
|             | 122.5 - 121.5        |                      | 15.804               | 551.040         | 0.029                           | 0.738                     | 945.283              | 0.001                           |
|             | 121.5 - 120.5        |                      | 15.873               | 555.448         | 0.029                           | 0.738                     | 960.467              | 0.001                           |
|             | 120.5 - 119.5        |                      | 15.943               | 559.856         | 0.028                           | 0.738                     | 975.775              | 0.001                           |
|             | 119.5 - 118.5        |                      | 16.012               | 564.264         | 0.028                           | 0.737                     | 991.200              | 0.001                           |
| L9          | 118.5 - 117.5        | TP21.25x20.47x0.488  | 16.115               | 554.799         | 0.029                           | 0.737                     | 982.800              | 0.001                           |
|             | 117.5 - 116.5        |                      | 16.218               | 559.097         | 0.029                           | 0.736                     | 998.083              | 0.001                           |
|             | 116.5 - 115.5        |                      | 16.321               | 563.395         | 0.029                           | 0.736                     | 1013.483             | 0.001                           |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft           | Size                  | Actual<br>$V_u$<br>K | $\phi V_n$<br>K | Ratio<br>$\frac{V_u}{\phi V_n}$ | Actual<br>$T_u$<br>kip-ft | $\phi T_n$<br>kip-ft | Ratio<br>$\frac{T_u}{\phi T_n}$ |
|-------------|---------------------------|-----------------------|----------------------|-----------------|---------------------------------|---------------------------|----------------------|---------------------------------|
|             | 115.5 - 114.5             |                       | 16.423               | 567.692         | 0.029                           | 0.735                     | 1029.008             | 0.001                           |
|             | 114.5 - 113.5             |                       | 16.525               | 571.990         | 0.029                           | 0.734                     | 1044.642             | 0.001                           |
| L10         | 113.5 -<br>112.167 (10)   | TP21.458x21.25x0.488  | 16.711               | 577.719         | 0.029                           | 0.734                     | 1065.675             | 0.001                           |
| L11         | 112.167 -<br>111.917 (11) | TP21.497x21.458x0.7   | 16.833               | 822.682         | 0.020                           | 0.730                     | 1504.983             | 0.000                           |
| L12         | 111.917 -<br>110.167 (12) | TP21.77x21.497x0.7    | 16.955               | 833.481         | 0.020                           | 0.729                     | 1544.758             | 0.000                           |
| L13         | 110.167 -<br>109.917 (13) | TP21.813x21.77x0.625  | 17.052               | 748.345         | 0.023                           | 0.728                     | 1394.733             | 0.001                           |
| L14         | 109.917 -<br>108.917      | TP22.672x21.813x0.6   | 17.118               | 725.082         | 0.024                           | 0.728                     | 1363.925             | 0.001                           |
|             | 108.917 -<br>107.917      |                       | 17.260               | 730.906         | 0.024                           | 0.726                     | 1385.917             | 0.001                           |
|             | 107.917 -<br>106.917      |                       | 17.403               | 736.729         | 0.024                           | 0.724                     | 1408.092             | 0.001                           |
|             | 106.917 -<br>105.917      |                       | 17.545               | 742.552         | 0.024                           | 0.723                     | 1430.442             | 0.001                           |
|             | 105.917 -<br>104.917      |                       | 17.998               | 748.376         | 0.024                           | 0.057                     | 1452.967             | 0.000                           |
| L15         | 104.917 -<br>103.917      | TP23.53x22.672x0.588  | 18.095               | 738.902         | 0.024                           | 0.059                     | 1446.550             | 0.000                           |
|             | 103.917 -<br>102.917      |                       | 18.192               | 744.604         | 0.024                           | 0.060                     | 1468.958             | 0.000                           |
|             | 102.917 -<br>101.917      |                       | 18.289               | 750.306         | 0.024                           | 0.061                     | 1491.542             | 0.000                           |
|             | 101.917 -<br>100.917      |                       | 18.385               | 756.008         | 0.024                           | 0.063                     | 1514.300             | 0.000                           |
|             | 100.917 -<br>99.917       |                       | 18.482               | 761.710         | 0.024                           | 0.064                     | 1537.233             | 0.000                           |
| L16         | 99.917 -<br>98.6877       | TP24.375x23.53x0.575  | 18.564               | 752.770         | 0.025                           | 0.065                     | 1533.992             | 0.000                           |
|             | 98.6877 -<br>97.4585      |                       | 18.645               | 759.630         | 0.025                           | 0.067                     | 1562.083             | 0.000                           |
|             | 97.4585 -<br>96.2292      |                       | 18.725               | 766.491         | 0.024                           | 0.069                     | 1590.425             | 0.000                           |
|             | 96.2292 - 95              |                       | 18.805               | 773.351         | 0.024                           | 0.071                     | 1619.017             | 0.000                           |
| L17         | 95 - 94.75 (17)           | TP24.418x24.375x0.7   | 18.857               | 938.224         | 0.020                           | 0.072                     | 1957.408             | 0.000                           |
| L18         | 94.75 - 93.75             | TP25.277x24.418x0.688 | 18.915               | 928.629         | 0.020                           | 0.072                     | 1952.442             | 0.000                           |
|             | 93.75 - 92.75             |                       | 19.007               | 935.301         | 0.020                           | 0.074                     | 1980.600             | 0.000                           |
|             | 92.75 - 91.75             |                       | 19.098               | 941.974         | 0.020                           | 0.075                     | 2008.967             | 0.000                           |
|             | 91.75 - 90.75             |                       | 19.190               | 948.647         | 0.020                           | 0.076                     | 2037.525             | 0.000                           |
|             | 90.75 - 89.75             |                       | 19.282               | 955.320         | 0.020                           | 0.077                     | 2066.292             | 0.000                           |
| L19         | 89.75 -<br>88.6875        | TP26.007x25.277x0.675 | 19.377               | 945.388         | 0.020                           | 0.078                     | 2061.025             | 0.000                           |
|             | 88.6875 -<br>87.625       |                       | 10.917               | 952.349         | 0.011                           | 1.547                     | 2061.025             | 0.001                           |
|             | 87.625 -<br>86.5625       |                       | 10.849               | 959.310         | 0.011                           | 1.549                     | 2091.483             | 0.001                           |
|             | 86.5625 - 85.5            |                       | 10.781               | 966.270         | 0.011                           | 1.550                     | 2122.175             | 0.001                           |
| L20         | 85.5 - 85.25<br>(20)      | TP26.049x26.007x0.863 | 10.942               | 1227.630        | 0.009                           | 1.552                     | 2710.583             | 0.001                           |
| L21         | 85.25 - 85 (21)           | TP26.092x26.049x0.863 | 10.934               | 1229.730        | 0.009                           | 1.552                     | 2719.850             | 0.001                           |
| L22         | 85 - 84.75 (22)           | TP26.135x26.092x0.838 | 10.920               | 1197.300        | 0.009                           | 1.552                     | 2655.275             | 0.001                           |
| L23         | 84.75 - 83 (23)           | TP26.436x26.135x0.838 | 10.714               | 1211.520        | 0.009                           | 1.550                     | 2664.317             | 0.001                           |
| L24         | 83 - 82.65 (24)           | TP26.496x26.436x0.713 | 10.715               | 1038.150        | 0.010                           | 1.554                     | 2343.558             | 0.001                           |
| L25         | 82.65 -<br>82.4167 (25)   | TP26.536x26.496x0.713 | 10.824               | 1039.760        | 0.010                           | 1.554                     | 2354.525             | 0.001                           |
| L26         | 82.4167 -<br>81.4167      | TP27.395x26.536x0.688 | 10.579               | 1010.930        | 0.010                           | 1.553                     | 2283.392             | 0.001                           |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft      | Size                  | Actual<br>$V_u$<br>K | $\phi V_n$<br>K | Ratio<br>$\frac{V_u}{\phi V_n}$ | Actual<br>$T_u$<br>kip-ft | $\phi T_n$<br>kip-ft | Ratio<br>$\frac{T_u}{\phi T_n}$ |
|-------------|----------------------|-----------------------|----------------------|-----------------|---------------------------------|---------------------------|----------------------|---------------------------------|
|             | 81.4167 -<br>80.4167 |                       | 10.508               | 1017.600        | 0.010                           | 1.554                     | 2313.833             | 0.001                           |
|             | 80.4167 -<br>79.4167 |                       | 10.437               | 1024.270        | 0.010                           | 1.555                     | 2344.483             | 0.001                           |
|             | 79.4167 -<br>78.4167 |                       | 10.367               | 1030.940        | 0.010                           | 1.556                     | 2375.325             | 0.001                           |
|             | 78.4167 -<br>77.4167 |                       | 10.298               | 1037.620        | 0.010                           | 1.557                     | 2406.375             | 0.001                           |
| L27         | 77.4167 -<br>76.1935 | TP28.64x27.395x0.688  | 10.224               | 1045.780        | 0.010                           | 1.557                     | 2437.625             | 0.001                           |
|             | 76.1935 -<br>74.9702 |                       | 9.012                | 1053.940        | 0.009                           | 3.498                     | 2476.133             | 0.001                           |
|             | 74.9702 -<br>73.747  |                       | 8.891                | 1062.100        | 0.008                           | 3.498                     | 2514.933             | 0.001                           |
|             | 73.747 -<br>70.167   |                       | 5.390                | 1085.990        | 0.005                           | 1.991                     | 2554.042             | 0.001                           |
| L28         | 73.747 -<br>70.167   | TP28.079x27.4x0.725   | 4.537                | 1114.650        | 0.004                           | 1.507                     | 2564.392             | 0.001                           |
|             | 70.167 -<br>69.167   |                       | 9.752                | 1120.720        | 0.009                           | 1.536                     | 2667.483             | 0.001                           |
| L29         | 69.167 -<br>68.167   | TP28.821x28.079x0.713 | 9.650                | 1107.870        | 0.009                           | 1.536                     | 2652.575             | 0.001                           |
|             | 68.167 -<br>67.167   |                       | 9.548                | 1113.840        | 0.009                           | 1.536                     | 2681.400             | 0.001                           |
|             | 67.167 -<br>66.167   |                       | 9.447                | 1119.820        | 0.008                           | 1.536                     | 2710.383             | 0.001                           |
|             | 66.167 -<br>65.167   |                       | 9.347                | 1125.790        | 0.008                           | 1.536                     | 2739.525             | 0.001                           |
|             | 65.167 -<br>64.167   |                       | 9.249                | 1131.760        | 0.008                           | 1.536                     | 2768.817             | 0.001                           |
| L30         | 64.167 -<br>63.167   | TP29.562x28.821x0.725 | 9.151                | 1157.180        | 0.008                           | 1.536                     | 2844.825             | 0.001                           |
|             | 63.167 -<br>62.167   |                       | 9.057                | 1163.250        | 0.008                           | 1.536                     | 2874.942             | 0.001                           |
|             | 62.167 -<br>61.167   |                       | 8.964                | 1169.330        | 0.008                           | 1.535                     | 2905.208             | 0.001                           |
|             | 61.167 -<br>60.167   |                       | 8.872                | 1175.410        | 0.008                           | 1.535                     | 2935.642             | 0.001                           |
|             | 60.167 -<br>59.167   |                       | 8.782                | 1181.480        | 0.007                           | 1.535                     | 2966.225             | 0.001                           |
| L31         | 59.167 -<br>58.167   | TP30.304x29.562x0.713 | 8.689                | 1167.590        | 0.007                           | 1.535                     | 2947.858             | 0.001                           |
|             | 58.167 -<br>57.167   |                       | 8.597                | 1173.560        | 0.007                           | 1.535                     | 2978.242             | 0.001                           |
|             | 57.167 -<br>56.167   |                       | 8.506                | 1179.530        | 0.007                           | 1.535                     | 3008.783             | 0.001                           |
|             | 56.167 -<br>55.167   |                       | 8.416                | 1185.500        | 0.007                           | 1.535                     | 3039.475             | 0.001                           |
|             | 55.167 -<br>54.167   |                       | 8.328                | 1191.470        | 0.007                           | 1.535                     | 3070.325             | 0.000                           |
| L32         | 54.167 -<br>53.167   | TP31.045x30.304x0.7   | 8.237                | 1176.930        | 0.007                           | 1.535                     | 3049.500             | 0.001                           |
|             | 53.167 -<br>52.167   |                       | 8.146                | 1182.800        | 0.007                           | 1.535                     | 3080.133             | 0.000                           |
|             | 52.167 -<br>51.167   |                       | 8.057                | 1188.660        | 0.007                           | 1.534                     | 3110.917             | 0.000                           |
|             | 51.167 -<br>50.167   |                       | 7.969                | 1194.530        | 0.007                           | 1.534                     | 3141.850             | 0.000                           |
|             | 50.167 -<br>49.167   |                       | 7.883                | 1200.400        | 0.007                           | 1.534                     | 3172.942             | 0.000                           |



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| Section No. | Elevation<br>ft           | Size                  | Actual<br>$V_u$<br>K | $\phi V_n$<br>K | Ratio<br>$\frac{V_u}{\phi V_n}$ | Actual<br>$T_u$<br>kip-ft | $\phi T_n$<br>kip-ft | Ratio<br>$\frac{T_u}{\phi T_n}$ |
|-------------|---------------------------|-----------------------|----------------------|-----------------|---------------------------------|---------------------------|----------------------|---------------------------------|
| L33         | 49.167 -<br>48.1668       | TP31.342x31.045x0.7   | 7.796                | 1206.260        | 0.006                           | 1.534                     | 3204.183             | 0.000                           |
|             | 48.1668 -<br>47.1667      |                       | 7.711                | 1212.130        | 0.006                           | 1.534                     | 3235.583             | 0.000                           |
| L34         | 47.1667 -<br>46.9167 (34) | TP31.379x31.342x0.788 | 7.661                | 1361.400        | 0.006                           | 1.534                     | 3654.567             | 0.000                           |
| L35         | 46.9167 -<br>45.75        | TP31.898x31.379x0.775 | 7.620                | 1347.920        | 0.006                           | 1.534                     | 3608.233             | 0.000                           |
|             | 45.75 -<br>44.5834        |                       | 7.542                | 1355.500        | 0.006                           | 1.534                     | 3649.150             | 0.000                           |
|             | 44.5834 -<br>43.4167      |                       | 7.466                | 1363.070        | 0.005                           | 1.534                     | 3690.292             | 0.000                           |
| L36         | 43.4167 -<br>43.1667 (36) | TP31.935x31.898x0.65  | 7.402                | 1149.180        | 0.006                           | 1.534                     | 3154.975             | 0.000                           |
| L37         | 43.1667 -<br>42.1667      | TP32.677x31.935x0.65  | 7.349                | 1154.620        | 0.006                           | 1.534                     | 3162.467             | 0.000                           |
|             | 42.1667 -<br>41.1667      |                       | 7.256                | 1160.070        | 0.006                           | 1.534                     | 3192.525             | 0.000                           |
|             | 41.1667 -<br>40.1667      |                       | 7.164                | 1165.520        | 0.006                           | 1.534                     | 3222.717             | 0.000                           |
|             | 40.1667 -<br>39.1667      |                       | 7.074                | 1170.970        | 0.006                           | 1.533                     | 3253.058             | 0.000                           |
|             | 39.1667 -<br>38.1667      |                       | 6.985                | 1176.410        | 0.006                           | 1.533                     | 3283.533             | 0.000                           |
| L38         | 38.1667 -<br>36.9569      | TP33.66x32.677x0.65   | 6.894                | 1183.000        | 0.006                           | 1.533                     | 3314.158             | 0.000                           |
|             | 36.9569 -<br>35.747       |                       | 6.786                | 1189.590        | 0.006                           | 1.533                     | 3351.392             | 0.000                           |
|             | 35.747 -<br>31.537        |                       | 4.241                | 1212.530        | 0.003                           | 0.933                     | 3388.842             | 0.000                           |
| L39         | 35.747 -<br>31.537        | TP33.161x32.286x0.438 | 2.608                | 804.883         | 0.003                           | 0.600                     | 2205.867             | 0.000                           |
|             | 31.537 -<br>30.537        |                       | 6.581                | 809.036         | 0.008                           | 1.533                     | 2304.908             | 0.001                           |
| L40         | 30.537 -<br>29.537        | TP34.001x33.161x0.438 | 6.403                | 813.188         | 0.008                           | 1.533                     | 2328.758             | 0.001                           |
|             | 29.537 -<br>28.537        |                       | 6.227                | 817.341         | 0.008                           | 1.533                     | 2352.725             | 0.001                           |
|             | 28.537 -<br>27.537        |                       | 6.054                | 821.494         | 0.007                           | 1.533                     | 2376.817             | 0.001                           |
|             | 27.537 -<br>26.537        |                       | 5.884                | 825.647         | 0.007                           | 1.533                     | 2401.025             | 0.001                           |
|             | 26.537 -<br>25.537        |                       | 5.717                | 829.799         | 0.007                           | 1.533                     | 2425.367             | 0.001                           |
| L41         | 25.537 -<br>24.537        | TP34.84x34.001x0.438  | 5.552                | 833.952         | 0.007                           | 1.533                     | 2449.825             | 0.001                           |
|             | 24.537 -<br>23.537        |                       | 5.390                | 838.105         | 0.006                           | 1.532                     | 2474.408             | 0.001                           |
|             | 23.537 -<br>22.537        |                       | 5.230                | 842.258         | 0.006                           | 1.532                     | 2499.108             | 0.001                           |
|             | 22.537 -<br>21.537        |                       | 5.154                | 846.410         | 0.006                           | 1.532                     | 2523.942             | 0.001                           |
|             | 21.537 -<br>20.537        |                       | 5.000                | 850.563         | 0.006                           | 1.268                     | 2548.892             | 0.000                           |
| L42         | 20.537 -<br>19.537        | TP35.68x34.84x0.438   | 4.848                | 854.716         | 0.006                           | 1.268                     | 2573.958             | 0.000                           |
|             | 19.537 -<br>18.537        |                       | 4.699                | 858.869         | 0.005                           | 1.268                     | 2599.158             | 0.000                           |
|             | 18.537 -<br>17.537        |                       | 4.553                | 863.022         | 0.005                           | 1.268                     | 2624.475             | 0.000                           |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft | Size                | Actual<br>$V_u$<br>K | $\phi V_n$<br>K | Ratio<br>$\frac{V_u}{\phi V_n}$ | Actual<br>$T_u$<br>kip-ft | $\phi T_n$<br>kip-ft | Ratio<br>$\frac{T_u}{\phi T_n}$ |
|-------------|-----------------|---------------------|----------------------|-----------------|---------------------------------|---------------------------|----------------------|---------------------------------|
| L43         | 17.537 - 16.537 | TP36.52x35.68x0.438 | 4.409                | 867.174         | 0.005                           | 1.268                     | 2649.917             | 0.000                           |
|             | 16.537 - 15.537 |                     | 4.268                | 871.327         | 0.005                           | 1.268                     | 2675.483             | 0.000                           |
|             | 15.537 - 14.537 |                     | 4.129                | 875.480         | 0.005                           | 1.268                     | 2701.167             | 0.000                           |
|             | 14.537 - 13.537 |                     | 3.993                | 879.633         | 0.005                           | 1.268                     | 2726.975             | 0.000                           |
|             | 13.537 - 12.537 |                     | 3.859                | 883.785         | 0.004                           | 1.268                     | 2752.908             | 0.000                           |
|             | 12.537 - 11.537 |                     | 3.728                | 887.938         | 0.004                           | 1.268                     | 2778.958             | 0.000                           |
|             | 11.537 - 10.537 |                     | 3.600                | 892.091         | 0.004                           | 1.268                     | 2805.142             | 0.000                           |
| L44         | 10.537 - 9.537  | TP37.36x36.52x0.438 | 3.474                | 896.244         | 0.004                           | 1.268                     | 2831.442             | 0.000                           |
|             | 9.537 - 8.537   |                     | 3.351                | 900.396         | 0.004                           | 1.268                     | 2857.858             | 0.000                           |
|             | 8.537 - 7.537   |                     | 3.230                | 904.549         | 0.004                           | 1.268                     | 2884.408             | 0.000                           |
|             | 7.537 - 6.537   |                     | 3.111                | 908.702         | 0.003                           | 1.268                     | 2911.075             | 0.000                           |
| L45         | 6.537 - 5.537   | TP38.2x37.36x0.438  | 2.995                | 912.855         | 0.003                           | 1.268                     | 2937.867             | 0.000                           |
|             | 5.537 - 4.537   |                     | 2.882                | 917.008         | 0.003                           | 1.268                     | 2964.775             | 0.000                           |
|             | 4.537 - 3.537   |                     | 2.771                | 921.160         | 0.003                           | 1.268                     | 2991.817             | 0.000                           |
|             | 3.537 - 2.537   |                     | 2.663                | 925.313         | 0.003                           | 1.268                     | 3018.975             | 0.000                           |
|             | 2.537 - 1.537   |                     | 2.557                | 929.466         | 0.003                           | 1.268                     | 3046.258             | 0.000                           |
| L46         | 1.537 - 0.537   | TP38.29x38.2x0.438  | 2.454                | 933.619         | 0.003                           | 1.268                     | 3073.658             | 0.000                           |
| L46         | 0.537 - 0 (46)  |                     | 2.356                | 935.849         | 0.003                           | 1.268                     | 3101.183             | 0.000                           |

### Pole Interaction Design Data

| Section No. | Elevation<br>ft   | Ratio<br>$\frac{P_u}{\phi P_n}$ | Ratio<br>$\frac{M_{ux}}{\phi M_{nx}}$ | Ratio<br>$\frac{M_{uy}}{\phi M_{ny}}$ | Ratio<br>$\frac{V_u}{\phi V_n}$ | Ratio<br>$\frac{T_u}{\phi T_n}$ | Comb.<br>Stress<br>Ratio | Allow.<br>Stress<br>Ratio | Criteria |
|-------------|-------------------|---------------------------------|---------------------------------------|---------------------------------------|---------------------------------|---------------------------------|--------------------------|---------------------------|----------|
| L1          | 150.167 - 149.167 | 0.000                           | 0.003                                 | 0.000                                 | 0.003                           | 0.000                           | 0.004                    | 1.050                     | 4.8.2 ✓  |
|             | 149.167 - 148.167 | 0.006                           | 0.032                                 | 0.000                                 | 0.027                           | 0.001                           | 0.040                    | 1.050                     | 4.8.2 ✓  |
|             | 148.167 - 147.167 | 0.006                           | 0.052                                 | 0.000                                 | 0.027                           | 0.001                           | 0.059                    | 1.050                     | 4.8.2 ✓  |
|             | 147.167 - 146.167 | 0.006                           | 0.071                                 | 0.000                                 | 0.027                           | 0.001                           | 0.079                    | 1.050                     | 4.8.2 ✓  |
|             | 146.167 - 145.167 | 0.006                           | 0.090                                 | 0.000                                 | 0.027                           | 0.001                           | 0.097                    | 1.050                     | 4.8.2 ✓  |
| L2          | 145.167 - 144.167 | 0.006                           | 0.108                                 | 0.000                                 | 0.027                           | 0.001                           | 0.115                    | 1.050                     | 4.8.2 ✓  |
|             | 144.167 - 143.167 | 0.006                           | 0.125                                 | 0.000                                 | 0.027                           | 0.001                           | 0.133                    | 1.050                     | 4.8.2 ✓  |
|             | 143.167 - 142.167 | 0.006                           | 0.142                                 | 0.000                                 | 0.027                           | 0.001                           | 0.150                    | 1.050                     | 4.8.2 ✓  |
|             | 142.167 - 141.167 | 0.007                           | 0.159                                 | 0.000                                 | 0.027                           | 0.001                           | 0.166                    | 1.050                     | 4.8.2 ✓  |
|             | 141.167 - 140.167 | 0.007                           | 0.175                                 | 0.000                                 | 0.027                           | 0.001                           | 0.183                    | 1.050                     | 4.8.2 ✓  |

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| <b>tnxTower</b><br><br><b>B+T Group</b><br>1717 S. Boulder, Suite 300<br>Tulsa, OK 74119<br>Phone: (918) 587-4630<br>FAX: (918) 587-4630 | <b>Job</b><br>93496.032.01 - OLD SAYBROOK, CT (BU# 841289) | <b>Page</b><br>63 of 69               |
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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft      | Ratio<br>$P_u$<br>$\phi P_n$ | Ratio<br>$M_{ux}$<br>$\phi M_{nx}$ | Ratio<br>$M_{uy}$<br>$\phi M_{ny}$ | Ratio<br>$V_u$<br>$\phi V_n$ | Ratio<br>$T_u$<br>$\phi T_n$ | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|----------------------|------------------------------|------------------------------------|------------------------------------|------------------------------|------------------------------|--------------------|---------------------|----------|
| L3          | 140.167 - 139.167    | 0.011                        | 0.203                              | 0.000                              | 0.040                        | 0.001                        | 0.216              | 1.050               | 4.8.2 ✓  |
|             | 139.167 - 138.167    | 0.011                        | 0.227                              | 0.000                              | 0.040                        | 0.001                        | 0.239              | 1.050               | 4.8.2 ✓  |
|             | 138.167 - 137.167    | 0.011                        | 0.250                              | 0.000                              | 0.040                        | 0.001                        | 0.262              | 1.050               | 4.8.2 ✓  |
|             | 137.167 - 136.167    | 0.011                        | 0.272                              | 0.000                              | 0.040                        | 0.001                        | 0.284              | 1.050               | 4.8.2 ✓  |
|             | 136.167 - 135.167    | 0.011                        | 0.294                              | 0.000                              | 0.040                        | 0.001                        | 0.306              | 1.050               | 4.8.2 ✓  |
| L4          | 135.167 - 134.167    | 0.011                        | 0.315                              | 0.000                              | 0.040                        | 0.001                        | 0.327              | 1.050               | 4.8.2 ✓  |
|             | 134.167 - 133.167    | 0.011                        | 0.335                              | 0.000                              | 0.040                        | 0.001                        | 0.347              | 1.050               | 4.8.2 ✓  |
|             | 133.167 - 132.167    | 0.011                        | 0.355                              | 0.000                              | 0.039                        | 0.001                        | 0.367              | 1.050               | 4.8.2 ✓  |
|             | 132.167 - 131.167    | 0.011                        | 0.374                              | 0.000                              | 0.039                        | 0.001                        | 0.386              | 1.050               | 4.8.2 ✓  |
|             | 131.167 - 130.167    | 0.011                        | 0.392                              | 0.000                              | 0.039                        | 0.001                        | 0.405              | 1.050               | 4.8.2 ✓  |
| L5          | 130.167 - 129.167    | 0.015                        | 0.439                              | 0.000                              | 0.059                        | 0.002                        | 0.457              | 1.050               | 4.8.2 ✓  |
|             | 129.167 - 128.167    | 0.015                        | 0.468                              | 0.000                              | 0.058                        | 0.002                        | 0.486              | 1.050               | 4.8.2 ✓  |
|             | 128.167 - 127.167    | 0.015                        | 0.496                              | 0.000                              | 0.058                        | 0.002                        | 0.515              | 1.050               | 4.8.2 ✓  |
|             | 127.167 - 126.167    | 0.015                        | 0.524                              | 0.000                              | 0.058                        | 0.002                        | 0.542              | 1.050               | 4.8.2 ✓  |
|             | 126.167 - 125.167    | 0.015                        | 0.550                              | 0.000                              | 0.057                        | 0.002                        | 0.569              | 1.050               | 4.8.2 ✓  |
| L6          | 125.167 - 123.75 (6) | 0.015                        | 0.587                              | 0.000                              | 0.057                        | 0.002                        | 0.605              | 1.050               | 4.8.2 ✓  |
| L7          | 123.75 - 123.5 (7)   | 0.007                        | 0.301                              | 0.000                              | 0.028                        | 0.001                        | 0.309              | 1.050               | 4.8.2 ✓  |
| L8          | 123.5 - 122.5        | 0.007                        | 0.321                              | 0.000                              | 0.029                        | 0.001                        | 0.329              | 1.050               | 4.8.2 ✓  |
|             | 122.5 - 121.5        | 0.008                        | 0.333                              | 0.000                              | 0.029                        | 0.001                        | 0.341              | 1.050               | 4.8.2 ✓  |
|             | 121.5 - 120.5        | 0.008                        | 0.345                              | 0.000                              | 0.029                        | 0.001                        | 0.353              | 1.050               | 4.8.2 ✓  |
|             | 120.5 - 119.5        | 0.008                        | 0.357                              | 0.000                              | 0.028                        | 0.001                        | 0.365              | 1.050               | 4.8.2 ✓  |
|             | 119.5 - 118.5        | 0.008                        | 0.368                              | 0.000                              | 0.028                        | 0.001                        | 0.376              | 1.050               | 4.8.2 ✓  |
| L9          | 118.5 - 117.5        | 0.008                        | 0.388                              | 0.000                              | 0.029                        | 0.001                        | 0.396              | 1.050               | 4.8.2 ✓  |
|             | 117.5 - 116.5        | 0.008                        | 0.399                              | 0.000                              | 0.029                        | 0.001                        | 0.407              | 1.050               | 4.8.2 ✓  |
|             | 116.5 - 115.5        | 0.008                        | 0.409                              | 0.000                              | 0.029                        | 0.001                        | 0.418              | 1.050               | 4.8.2 ✓  |
|             | 115.5 - 114.5        | 0.008                        | 0.419                              | 0.000                              | 0.029                        | 0.001                        | 0.429              | 1.050               | 4.8.2 ✓  |

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|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft        | Ratio<br>$P_u$<br>$\phi P_n$ | Ratio<br>$M_{ux}$<br>$\phi M_{nx}$ | Ratio<br>$M_{uy}$<br>$\phi M_{ny}$ | Ratio<br>$V_u$<br>$\phi V_n$ | Ratio<br>$T_u$<br>$\phi T_n$ | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|------------------------|------------------------------|------------------------------------|------------------------------------|------------------------------|------------------------------|--------------------|---------------------|----------|
|             | 114.5 - 113.5          | 0.009                        | 0.430                              | 0.000                              | 0.029                        | 0.001                        | 0.439              | 1.050               | 4.8.2 ✓  |
| L10         | 113.5 - 112.167 (10)   | 0.009                        | 0.443                              | 0.000                              | 0.029                        | 0.001                        | 0.452              | 1.050               | 4.8.2 ✓  |
| L11         | 112.167 - 111.917 (11) | 0.006                        | 0.320                              | 0.000                              | 0.020                        | 0.000                        | 0.326              | 1.050               | 4.8.2 ✓  |
| L12         | 111.917 - 110.167 (12) | 0.006                        | 0.331                              | 0.000                              | 0.020                        | 0.000                        | 0.338              | 1.050               | 4.8.2 ✓  |
| L13         | 110.167 - 109.917 (13) | 0.007                        | 0.369                              | 0.000                              | 0.023                        | 0.001                        | 0.377              | 1.050               | 4.8.2 ✓  |
| L14         | 109.917 - 108.917      | 0.008                        | 0.390                              | 0.000                              | 0.024                        | 0.001                        | 0.398              | 1.050               | 4.8.2 ✓  |
|             | 108.917 - 107.917      | 0.008                        | 0.396                              | 0.000                              | 0.024                        | 0.001                        | 0.405              | 1.050               | 4.8.2 ✓  |
|             | 107.917 - 106.917      | 0.008                        | 0.403                              | 0.000                              | 0.024                        | 0.001                        | 0.411              | 1.050               | 4.8.2 ✓  |
|             | 106.917 - 105.917      | 0.008                        | 0.409                              | 0.000                              | 0.024                        | 0.001                        | 0.418              | 1.050               | 4.8.2 ✓  |
|             | 105.917 - 104.917      | 0.008                        | 0.416                              | 0.000                              | 0.024                        | 0.000                        | 0.424              | 1.050               | 4.8.2 ✓  |
| L15         | 104.917 - 103.917      | 0.009                        | 0.430                              | 0.000                              | 0.024                        | 0.000                        | 0.439              | 1.050               | 4.8.2 ✓  |
|             | 103.917 - 102.917      | 0.009                        | 0.436                              | 0.000                              | 0.024                        | 0.000                        | 0.446              | 1.050               | 4.8.2 ✓  |
|             | 102.917 - 101.917      | 0.009                        | 0.443                              | 0.000                              | 0.024                        | 0.000                        | 0.452              | 1.050               | 4.8.2 ✓  |
|             | 101.917 - 100.917      | 0.009                        | 0.448                              | 0.000                              | 0.024                        | 0.000                        | 0.458              | 1.050               | 4.8.2 ✓  |
|             | 100.917 - 99.917       | 0.009                        | 0.454                              | 0.000                              | 0.024                        | 0.000                        | 0.464              | 1.050               | 4.8.2 ✓  |
| L16         | 99.917 - 98.6877       | 0.009                        | 0.470                              | 0.000                              | 0.025                        | 0.000                        | 0.480              | 1.050               | 4.8.2 ✓  |
|             | 98.6877 - 97.4585      | 0.009                        | 0.477                              | 0.000                              | 0.025                        | 0.000                        | 0.487              | 1.050               | 4.8.2 ✓  |
|             | 97.4585 - 96.2292      | 0.009                        | 0.483                              | 0.000                              | 0.024                        | 0.000                        | 0.493              | 1.050               | 4.8.2 ✓  |
|             | 96.2292 - 95           | 0.009                        | 0.490                              | 0.000                              | 0.024                        | 0.000                        | 0.499              | 1.050               | 4.8.2 ✓  |
| L17         | 95 - 94.75 (17)        | 0.008                        | 0.410                              | 0.000                              | 0.020                        | 0.000                        | 0.418              | 1.050               | 4.8.2 ✓  |
| L18         | 94.75 - 93.75          | 0.008                        | 0.421                              | 0.000                              | 0.020                        | 0.000                        | 0.429              | 1.050               | 4.8.2 ✓  |
|             | 93.75 - 92.75          | 0.008                        | 0.425                              | 0.000                              | 0.020                        | 0.000                        | 0.433              | 1.050               | 4.8.2 ✓  |
|             | 92.75 - 91.75          | 0.008                        | 0.428                              | 0.000                              | 0.020                        | 0.000                        | 0.437              | 1.050               | 4.8.2 ✓  |
|             | 91.75 - 90.75          | 0.008                        | 0.432                              | 0.000                              | 0.020                        | 0.000                        | 0.440              | 1.050               | 4.8.2 ✓  |
|             | 90.75 - 89.75          | 0.008                        | 0.436                              | 0.000                              | 0.020                        | 0.000                        | 0.444              | 1.050               | 4.8.2 ✓  |
| L19         | 89.75 - 88.6875        | 0.008                        | 0.447                              | 0.000                              | 0.020                        | 0.000                        | 0.455              | 1.050               | 4.8.2 ✓  |

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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation<br>ft      | Ratio<br>$P_u$<br>$\phi P_n$ | Ratio<br>$M_{ux}$<br>$\phi M_{nx}$ | Ratio<br>$M_{uy}$<br>$\phi M_{ny}$ | Ratio<br>$V_u$<br>$\phi V_n$ | Ratio<br>$T_u$<br>$\phi T_n$ | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|----------------------|------------------------------|------------------------------------|------------------------------------|------------------------------|------------------------------|--------------------|---------------------|----------|
|             | 88.6875 - 87.625     | 0.074                        | 0.424                              | 0.000                              | 0.011                        | 0.001                        | 0.498              | 1.050               | 4.8.2 ✓  |
|             | 87.625 - 86.5625     | 0.074                        | 0.421                              | 0.000                              | 0.011                        | 0.001                        | 0.495              | 1.050               | 4.8.2 ✓  |
|             | 86.5625 - 85.5       | 0.073                        | 0.419                              | 0.000                              | 0.011                        | 0.001                        | 0.492              | 1.050               | 4.8.2 ✓  |
| L20         | 85.5 - 85.25 (20)    | 0.057                        | 0.333                              | 0.000                              | 0.009                        | 0.001                        | 0.391              | 1.050               | 4.8.2 ✓  |
| L21         | 85.25 - 85 (21)      | 0.057                        | 0.333                              | 0.000                              | 0.009                        | 0.001                        | 0.390              | 1.050               | 4.8.2 ✓  |
| L22         | 85 - 84.75 (22)      | 0.059                        | 0.341                              | 0.000                              | 0.009                        | 0.001                        | 0.400              | 1.050               | 4.8.2 ✓  |
| L23         | 84.75 - 83 (23)      | 0.059                        | 0.341                              | 0.000                              | 0.009                        | 0.001                        | 0.399              | 1.050               | 4.8.2 ✓  |
| L24         | 83 - 82.65 (24)      | 0.068                        | 0.390                              | 0.000                              | 0.010                        | 0.001                        | 0.459              | 1.050               | 4.8.2 ✓  |
| L25         | 82.65 - 82.4167 (25) | 0.068                        | 0.390                              | 0.000                              | 0.010                        | 0.001                        | 0.458              | 1.050               | 4.8.2 ✓  |
| L26         | 82.4167 - 81.4167    | 0.070                        | 0.402                              | 0.000                              | 0.010                        | 0.001                        | 0.473              | 1.050               | 4.8.2 ✓  |
|             | 81.4167 - 80.4167    | 0.070                        | 0.400                              | 0.000                              | 0.010                        | 0.001                        | 0.470              | 1.050               | 4.8.2 ✓  |
|             | 80.4167 - 79.4167    | 0.070                        | 0.398                              | 0.000                              | 0.010                        | 0.001                        | 0.467              | 1.050               | 4.8.2 ✓  |
|             | 79.4167 - 78.4167    | 0.069                        | 0.395                              | 0.000                              | 0.010                        | 0.001                        | 0.465              | 1.050               | 4.8.2 ✓  |
|             | 78.4167 - 77.4167    | 0.069                        | 0.393                              | 0.000                              | 0.010                        | 0.001                        | 0.462              | 1.050               | 4.8.2 ✓  |
| L27         | 77.4167 - 76.1935    | 0.068                        | 0.391                              | 0.000                              | 0.010                        | 0.001                        | 0.459              | 1.050               | 4.8.2 ✓  |
|             | 76.1935 - 74.9702    | 0.069                        | 0.387                              | 0.000                              | 0.009                        | 0.001                        | 0.456              | 1.050               | 4.8.2 ✓  |
|             | 74.9702 - 73.747     | 0.068                        | 0.386                              | 0.000                              | 0.008                        | 0.001                        | 0.454              | 1.050               | 4.8.2 ✓  |
|             | 73.747 - 70.167      | 0.034                        | 0.195                              | 0.000                              | 0.005                        | 0.001                        | 0.228              | 1.050               | 4.8.2 ✓  |
| L28         | 73.747 - 70.167      | 0.034                        | 0.189                              | 0.000                              | 0.004                        | 0.001                        | 0.223              | 1.050               | 4.8.2 ✓  |
|             | 70.167 - 69.167      | 0.065                        | 0.381                              | 0.000                              | 0.009                        | 0.001                        | 0.447              | 1.050               | 4.8.2 ✓  |
| L29         | 69.167 - 68.167      | 0.066                        | 0.387                              | 0.000                              | 0.009                        | 0.001                        | 0.453              | 1.050               | 4.8.2 ✓  |
|             | 68.167 - 67.167      | 0.066                        | 0.387                              | 0.000                              | 0.009                        | 0.001                        | 0.453              | 1.050               | 4.8.2 ✓  |
|             | 67.167 - 66.167      | 0.066                        | 0.386                              | 0.000                              | 0.008                        | 0.001                        | 0.452              | 1.050               | 4.8.2 ✓  |
|             | 66.167 - 65.167      | 0.065                        | 0.386                              | 0.000                              | 0.008                        | 0.001                        | 0.451              | 1.050               | 4.8.2 ✓  |
|             | 65.167 - 64.167      | 0.065                        | 0.385                              | 0.000                              | 0.008                        | 0.001                        | 0.450              | 1.050               | 4.8.2 ✓  |
| L30         | 64.167 - 63.167      | 0.064                        | 0.378                              | 0.000                              | 0.008                        | 0.001                        | 0.442              | 1.050               | 4.8.2 ✓  |

# tnxTower

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**Job**  
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**Project**  
 Date: 18:39:54 09/08/21

**Client**  
 Crown Castle  
 Designed by  
 Nithish Acharya

| Section No. | Elevation<br>ft        | Ratio      | Ratio         | Ratio         | Ratio      | Ratio      | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|------------------------|------------|---------------|---------------|------------|------------|--------------------|---------------------|----------|
|             |                        | $P_u$      | $M_{ux}$      | $M_{uy}$      | $V_u$      | $T_u$      |                    |                     |          |
|             |                        | $\phi P_n$ | $\phi M_{nx}$ | $\phi M_{ny}$ | $\phi V_n$ | $\phi T_n$ |                    |                     |          |
|             | 63.167 - 62.167        | 0.063      | 0.378         | 0.000         | 0.008      | 0.001      | 0.441              | 1.050               | 4.8.2 ✓  |
|             | 62.167 - 61.167        | 0.063      | 0.377         | 0.000         | 0.008      | 0.001      | 0.440              | 1.050               | 4.8.2 ✓  |
|             | 61.167 - 60.167        | 0.063      | 0.376         | 0.000         | 0.008      | 0.001      | 0.439              | 1.050               | 4.8.2 ✓  |
|             | 60.167 - 59.167        | 0.063      | 0.375         | 0.000         | 0.007      | 0.001      | 0.438              | 1.050               | 4.8.2 ✓  |
| L31         | 59.167 - 58.167        | 0.064      | 0.380         | 0.000         | 0.007      | 0.001      | 0.444              | 1.050               | 4.8.2 ✓  |
|             | 58.167 - 57.167        | 0.063      | 0.379         | 0.000         | 0.007      | 0.001      | 0.443              | 1.050               | 4.8.2 ✓  |
|             | 57.167 - 56.167        | 0.063      | 0.379         | 0.000         | 0.007      | 0.001      | 0.442              | 1.050               | 4.8.2 ✓  |
|             | 56.167 - 55.167        | 0.063      | 0.378         | 0.000         | 0.007      | 0.001      | 0.440              | 1.050               | 4.8.2 ✓  |
|             | 55.167 - 54.167        | 0.063      | 0.377         | 0.000         | 0.007      | 0.000      | 0.439              | 1.050               | 4.8.2 ✓  |
| L32         | 54.167 - 53.167        | 0.063      | 0.382         | 0.000         | 0.007      | 0.001      | 0.445              | 1.050               | 4.8.2 ✓  |
|             | 53.167 - 52.167        | 0.063      | 0.381         | 0.000         | 0.007      | 0.000      | 0.444              | 1.050               | 4.8.2 ✓  |
|             | 52.167 - 51.167        | 0.063      | 0.380         | 0.000         | 0.007      | 0.000      | 0.443              | 1.050               | 4.8.2 ✓  |
|             | 51.167 - 50.167        | 0.063      | 0.378         | 0.000         | 0.007      | 0.000      | 0.441              | 1.050               | 4.8.2 ✓  |
|             | 50.167 - 49.167        | 0.062      | 0.377         | 0.000         | 0.007      | 0.000      | 0.440              | 1.050               | 4.8.2 ✓  |
| L33         | 49.167 - 48.1668       | 0.062      | 0.376         | 0.000         | 0.006      | 0.000      | 0.438              | 1.050               | 4.8.2 ✓  |
|             | 48.1668 - 47.1667      | 0.062      | 0.375         | 0.000         | 0.006      | 0.000      | 0.437              | 1.050               | 4.8.2 ✓  |
| L34         | 47.1667 - 46.9167 (34) | 0.055      | 0.335         | 0.000         | 0.006      | 0.000      | 0.390              | 1.050               | 4.8.2 ✓  |
| L35         | 46.9167 - 45.75        | 0.056      | 0.340         | 0.000         | 0.006      | 0.000      | 0.396              | 1.050               | 4.8.2 ✓  |
|             | 45.75 - 44.5834        | 0.056      | 0.338         | 0.000         | 0.006      | 0.000      | 0.394              | 1.050               | 4.8.2 ✓  |
|             | 44.5834 - 43.4167      | 0.055      | 0.337         | 0.000         | 0.005      | 0.000      | 0.393              | 1.050               | 4.8.2 ✓  |
| L36         | 43.4167 - 43.1667 (36) | 0.066      | 0.396         | 0.000         | 0.006      | 0.000      | 0.461              | 1.050               | 4.8.2 ✓  |
| L37         | 43.1667 - 42.1667      | 0.065      | 0.395         | 0.000         | 0.006      | 0.000      | 0.461              | 1.050               | 4.8.2 ✓  |
|             | 42.1667 - 41.1667      | 0.065      | 0.394         | 0.000         | 0.006      | 0.000      | 0.459              | 1.050               | 4.8.2 ✓  |
|             | 41.1667 - 40.1667      | 0.065      | 0.392         | 0.000         | 0.006      | 0.000      | 0.457              | 1.050               | 4.8.2 ✓  |
|             | 40.1667 - 39.1667      | 0.065      | 0.391         | 0.000         | 0.006      | 0.000      | 0.456              | 1.050               | 4.8.2 ✓  |
|             | 39.1667 - 38.1667      | 0.065      | 0.390         | 0.000         | 0.006      | 0.000      | 0.454              | 1.050               | 4.8.2 ✓  |

# tnxTower

**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
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**Job**  
 93496.032.01 - OLD SAYBROOK, CT (BU# 841289)

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**Project**  
 Date  
 18:39:54 09/08/21

**Client**  
 Crown Castle  
 Designed by  
 Nithish Acharya

| Section No. | Elevation ft      | Ratio $P_u$ | Ratio $M_{ux}$ | Ratio $M_{uy}$ | Ratio $V_u$ | Ratio $T_u$ | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|-------------------|-------------|----------------|----------------|-------------|-------------|--------------------|---------------------|----------|
|             |                   | $\phi P_n$  | $\phi M_{nx}$  | $\phi M_{ny}$  | $\phi V_n$  | $\phi T_n$  |                    |                     |          |
| L38         | 38.1667 - 36.9569 | 0.064       | 0.388          | 0.000          | 0.006       | 0.000       | 0.452              | 1.050               | 4.8.2 ✓  |
|             | 36.9569 - 35.747  | 0.064       | 0.386          | 0.000          | 0.006       | 0.000       | 0.450              | 1.050               | 4.8.2 ✓  |
|             | 35.747 - 31.537   | 0.038       | 0.234          | 0.000          | 0.003       | 0.000       | 0.272              | 1.050               | 4.8.2 ✓  |
| L39         | 35.747 - 31.537   | 0.038       | 0.230          | 0.000          | 0.003       | 0.000       | 0.268              | 1.050               | 4.8.2 ✓  |
|             | 31.537 - 30.537   | 0.095       | 0.574          | 0.000          | 0.008       | 0.001       | 0.669              | 1.050               | 4.8.2 ✓  |
| L40         | 30.537 - 29.537   | 0.095       | 0.571          | 0.000          | 0.008       | 0.001       | 0.666              | 1.050               | 4.8.2 ✓  |
|             | 29.537 - 28.537   | 0.094       | 0.568          | 0.000          | 0.008       | 0.001       | 0.662              | 1.050               | 4.8.2 ✓  |
|             | 28.537 - 27.537   | 0.094       | 0.565          | 0.000          | 0.007       | 0.001       | 0.659              | 1.050               | 4.8.2 ✓  |
|             | 27.537 - 26.537   | 0.093       | 0.562          | 0.000          | 0.007       | 0.001       | 0.655              | 1.050               | 4.8.2 ✓  |
|             | 26.537 - 25.537   | 0.093       | 0.559          | 0.000          | 0.007       | 0.001       | 0.652              | 1.050               | 4.8.2 ✓  |
| L41         | 25.537 - 24.537   | 0.093       | 0.555          | 0.000          | 0.007       | 0.001       | 0.648              | 1.050               | 4.8.2 ✓  |
|             | 24.537 - 23.537   | 0.092       | 0.552          | 0.000          | 0.006       | 0.001       | 0.644              | 1.050               | 4.8.2 ✓  |
|             | 23.537 - 22.537   | 0.092       | 0.549          | 0.000          | 0.006       | 0.001       | 0.641              | 1.050               | 4.8.2 ✓  |
|             | 22.537 - 21.537   | 0.092       | 0.545          | 0.000          | 0.006       | 0.001       | 0.637              | 1.050               | 4.8.2 ✓  |
|             | 21.537 - 20.537   | 0.091       | 0.542          | 0.000          | 0.006       | 0.000       | 0.633              | 1.050               | 4.8.2 ✓  |
| L42         | 20.537 - 19.537   | 0.091       | 0.539          | 0.000          | 0.006       | 0.000       | 0.630              | 1.050               | 4.8.2 ✓  |
|             | 19.537 - 18.537   | 0.091       | 0.535          | 0.000          | 0.005       | 0.000       | 0.626              | 1.050               | 4.8.2 ✓  |
|             | 18.537 - 17.537   | 0.090       | 0.532          | 0.000          | 0.005       | 0.000       | 0.622              | 1.050               | 4.8.2 ✓  |
|             | 17.537 - 16.537   | 0.090       | 0.529          | 0.000          | 0.005       | 0.000       | 0.618              | 1.050               | 4.8.2 ✓  |
|             | 16.537 - 15.537   | 0.089       | 0.525          | 0.000          | 0.005       | 0.000       | 0.615              | 1.050               | 4.8.2 ✓  |
| L43         | 15.537 - 14.537   | 0.089       | 0.522          | 0.000          | 0.005       | 0.000       | 0.611              | 1.050               | 4.8.2 ✓  |
|             | 14.537 - 13.537   | 0.089       | 0.518          | 0.000          | 0.005       | 0.000       | 0.607              | 1.050               | 4.8.2 ✓  |
|             | 13.537 - 12.537   | 0.088       | 0.515          | 0.000          | 0.004       | 0.000       | 0.603              | 1.050               | 4.8.2 ✓  |
|             | 12.537 - 11.537   | 0.088       | 0.511          | 0.000          | 0.004       | 0.000       | 0.600              | 1.050               | 4.8.2 ✓  |
|             | 11.537 - 10.537   | 0.088       | 0.508          | 0.000          | 0.004       | 0.000       | 0.596              | 1.050               | 4.8.2 ✓  |
| L44         | 10.537 - 9.537    | 0.087       | 0.505          | 0.000          | 0.004       | 0.000       | 0.593              | 1.050               | 4.8.2 ✓  |

|  |  |                                       |
|--|--|---------------------------------------|
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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation ft   | Ratio $P_u$ | Ratio $M_{ux}$ | Ratio $M_{uy}$ | Ratio $V_u$ | Ratio $T_u$ | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|----------------|-------------|----------------|----------------|-------------|-------------|--------------------|---------------------|----------|
|             |                | $\phi P_n$  | $\phi M_{nx}$  | $\phi M_{ny}$  | $\phi V_n$  | $\phi T_n$  |                    |                     |          |
|             | 9.537 - 8.537  | 0.087       | 0.502          | 0.000          | 0.004       | 0.000       | 0.590              | 1.050               | 4.8.2 ✓  |
|             | 8.537 - 7.537  | 0.087       | 0.500          | 0.000          | 0.004       | 0.000       | 0.586              | 1.050               | 4.8.2 ✓  |
|             | 7.537 - 6.537  | 0.087       | 0.497          | 0.000          | 0.003       | 0.000       | 0.583              | 1.050               | 4.8.2 ✓  |
|             | 6.537 - 5.537  | 0.086       | 0.494          | 0.000          | 0.003       | 0.000       | 0.580              | 1.050               | 4.8.2 ✓  |
| L45         | 5.537 - 4.537  | 0.086       | 0.491          | 0.000          | 0.003       | 0.000       | 0.577              | 1.050               | 4.8.2 ✓  |
|             | 4.537 - 3.537  | 0.086       | 0.488          | 0.000          | 0.003       | 0.000       | 0.574              | 1.050               | 4.8.2 ✓  |
|             | 3.537 - 2.537  | 0.085       | 0.486          | 0.000          | 0.003       | 0.000       | 0.571              | 1.050               | 4.8.2 ✓  |
|             | 2.537 - 1.537  | 0.085       | 0.483          | 0.000          | 0.003       | 0.000       | 0.568              | 1.050               | 4.8.2 ✓  |
|             | 1.537 - 0.537  | 0.085       | 0.480          | 0.000          | 0.003       | 0.000       | 0.565              | 1.050               | 4.8.2 ✓  |
| L46         | 0.537 - 0 (46) | 0.084       | 0.477          | 0.000          | 0.003       | 0.000       | 0.561              | 1.050               | 4.8.2 ✓  |

### Section Capacity Table

| Section No. | Elevation ft      | Component Type | Size                 | Critical Element | P K     | $\phi P_{allow}$ K | % Capacity | Pass Fail |
|-------------|-------------------|----------------|----------------------|------------------|---------|--------------------|------------|-----------|
| L1          | 150.167 - 145.167 | Pole           | TP16.31x15.53x0.25   | 1                | -4.877  | 794.121            | **         | **        |
| L2          | 145.167 - 140.167 | Pole           | TP17.09x16.31x0.25   | 2                | -5.181  | 832.690            | **         | **        |
| L3          | 140.167 - 135.167 | Pole           | TP17.87x17.09x0.25   | 3                | -8.732  | 871.258            | **         | **        |
| L4          | 135.167 - 130.167 | Pole           | TP18.65x17.87x0.25   | 4                | -9.174  | 909.827            | **         | **        |
| L5          | 130.167 - 125.167 | Pole           | TP19.43x18.65x0.25   | 5                | -13.263 | 948.396            | **         | **        |
| L6          | 125.167 - 123.75  | Pole           | TP19.651x19.43x0.25  | 6                | -13.424 | 959.326            | **         | **        |
| L7          | 123.75 - 123.5    | Pole           | TP19.69x19.651x0.513 | 7                | -13.481 | 1943.959           | **         | **        |
| L8          | 123.5 - 118.5     | Pole           | TP20.47x19.69x0.5    | 8                | -14.291 | 1974.924           | **         | **        |
| L9          | 118.5 - 113.5     | Pole           | TP21.25x20.47x0.488  | 9                | -16.233 | 2001.961           | **         | **        |
| L10         | 113.5 - 112.167   | Pole           | TP21.458x21.25x0.488 | 10               | -16.879 | 2022.016           | **         | **        |
| L11         | 112.167 - 111.917 | Pole           | TP21.497x21.458x0.7  | 11               | -17.023 | 2879.383           | **         | **        |
| L12         | 111.917 - 110.167 | Pole           | TP21.77x21.497x0.7   | 12               | -17.865 | 2917.183           | **         | **        |
| L13         | 110.167 - 109.917 | Pole           | TP21.813x21.77x0.625 | 13               | -17.959 | 2619.204           | **         | **        |
| L14         | 109.917 - 104.917 | Pole           | TP22.672x21.813x0.6  | 14               | -20.647 | 2619.319           | **         | **        |
| L15         | 104.917 - 99.917  | Pole           | TP23.53x22.672x0.588 | 15               | -22.448 | 2665.981           | **         | **        |
| L16         | 99.917 - 95       | Pole           | TP24.375x23.53x0.575 | 16               | -23.657 | 2706.732           | **         | **        |

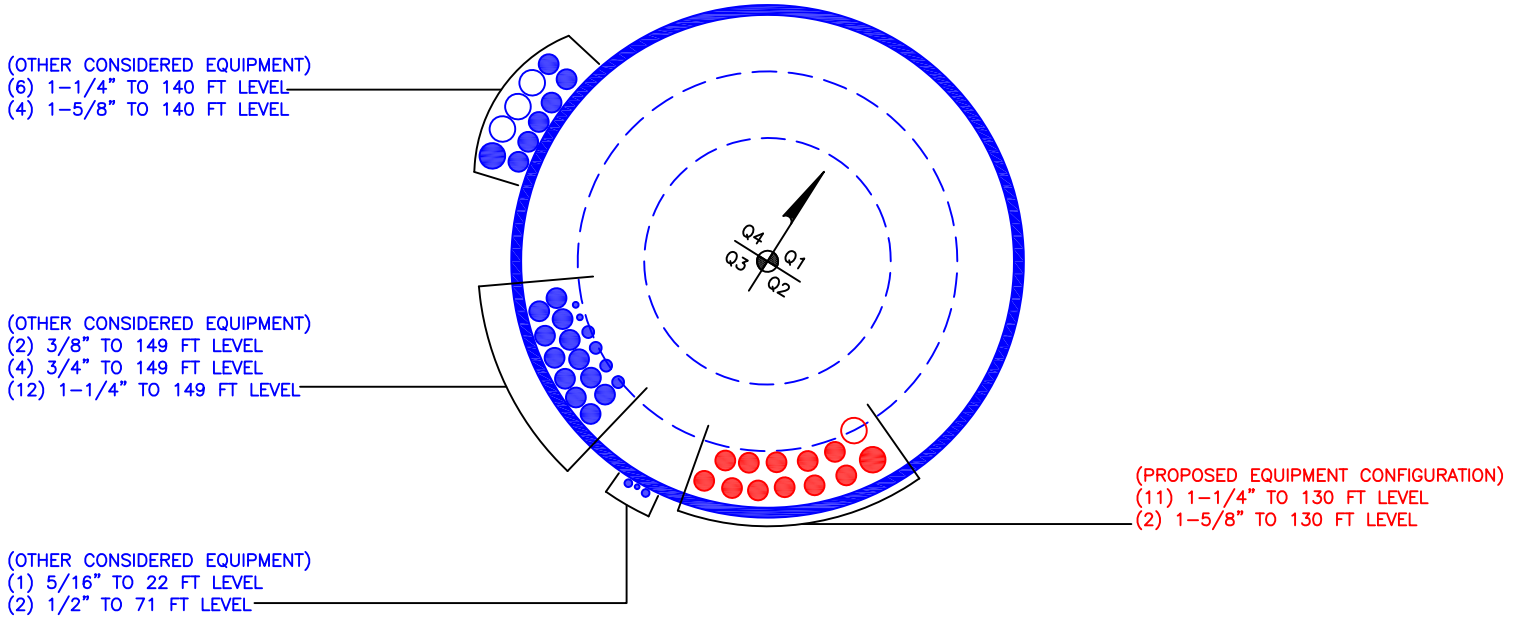


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|--|--|---------------------------------------|
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|  | <b>Project</b>   | <b>Date</b><br>18:39:54 09/08/21      |
|  | <b>Client</b><br>Crown Castle                              | <b>Designed by</b><br>Nithish Acharya |

| Section No. | Elevation ft      | Component Type | Size                  | Critical Element | P K      | $\phi P_{allow}$ K | % Capacity | Pass Fail |
|-------------|-------------------|----------------|-----------------------|------------------|----------|--------------------|------------|-----------|
| L17         | 95 - 94.75        | Pole           | TP24.418x24.375x0.7   | 17               | -23.738  | 3283.780           | **         | **        |
| L18         | 94.75 - 89.75     | Pole           | TP25.277x24.418x0.688 | 18               | -25.125  | 3343.620           | **         | **        |
| L19         | 89.75 - 85.5      | Pole           | TP26.007x25.277x0.675 | 19               | -233.796 | 3308.854           | **         | **        |
|             |                   | Guy A@88.6875  | 1 5/8                 | 49               | 153.765  | 204.120            | **         | **        |
|             |                   | Guy B@88.6875  | 1 3/8                 | 48               | 84.611   | 146.160            | **         | **        |
|             |                   | Guy C@88.6875  | 1 3/8                 | 47               | 95.237   | 146.160            | **         | **        |
| L20         | 85.5 - 85.25      | Pole           | TP26.049x26.007x0.863 | 20               | -234.556 | 4289.386           | **         | **        |
| L21         | 85.25 - 85        | Pole           | TP26.092x26.049x0.863 | 21               | -234.595 | 4296.715           | **         | **        |
| L22         | 85 - 84.75        | Pole           | TP26.135x26.092x0.838 | 22               | -234.673 | 4183.431           | **         | **        |
| L23         | 84.75 - 83        | Pole           | TP26.436x26.135x0.838 | 23               | -234.750 | 4190.539           | **         | **        |
| L24         | 83 - 82.65        | Pole           | TP26.496x26.436x0.713 | 24               | -235.257 | 3625.062           | **         | **        |
| L25         | 82.65 - 82.4167   | Pole           | TP26.536x26.496x0.713 | 25               | -235.358 | 3633.525           | **         | **        |
| L26         | 82.4167 - 77.4167 | Pole           | TP27.395x26.536x0.688 | 26               | -235.427 | 3514.885           | **         | **        |
| L27         | 77.4167 - 70.167  | Pole           | TP28.64x27.395x0.688  | 27               | -236.863 | 3631.656           | **         | **        |
| L28         | 70.167 - 69.167   | Pole           | TP28.079x27.4x0.725   | 28               | -242.775 | 3901.254           | **         | **        |
| L29         | 69.167 - 64.167   | Pole           | TP28.821x28.079x0.713 | 29               | -243.061 | 3856.660           | **         | **        |
| L30         | 64.167 - 59.167   | Pole           | TP29.562x28.821x0.725 | 30               | -244.494 | 4028.850           | **         | **        |
| L31         | 59.167 - 54.167   | Pole           | TP30.304x29.562x0.713 | 31               | -245.943 | 4065.652           | **         | **        |
| L32         | 54.167 - 49.167   | Pole           | TP31.045x30.304x0.7   | 32               | -247.410 | 4098.717           | **         | **        |
| L33         | 49.167 - 47.1667  | Pole           | TP31.342x31.045x0.7   | 33               | -248.896 | 4201.386           | **         | **        |
| L34         | 47.1667 - 46.9167 | Pole           | TP31.379x31.342x0.788 | 34               | -249.494 | 4759.135           | **         | **        |
| L35         | 46.9167 - 43.4167 | Pole           | TP31.898x31.379x0.775 | 35               | -249.578 | 4691.190           | **         | **        |
| L36         | 43.4167 - 43.1667 | Pole           | TP31.935x31.898x0.65  | 36               | -250.722 | 4017.352           | **         | **        |
| L37         | 43.1667 - 38.1667 | Pole           | TP32.677x31.935x0.65  | 37               | -250.797 | 4022.119           | **         | **        |
| L38         | 38.1667 - 31.537  | Pole           | TP33.66x32.677x0.65   | 38               | -252.270 | 4117.449           | **         | **        |
| L39         | 31.537 - 30.537   | Pole           | TP33.161x32.286x0.438 | 39               | -255.033 | 2817.087           | **         | **        |
| L40         | 30.537 - 25.537   | Pole           | TP34.001x33.161x0.438 | 40               | -255.262 | 2831.629           | **         | **        |
| L41         | 25.537 - 20.537   | Pole           | TP34.84x34.001x0.438  | 41               | -256.416 | 2904.300           | **         | **        |
| L42         | 20.537 - 15.537   | Pole           | TP35.68x34.84x0.438   | 42               | -257.709 | 2976.970           | **         | **        |
| L43         | 15.537 - 10.537   | Pole           | TP36.52x35.68x0.438   | 43               | -258.906 | 3049.641           | **         | **        |
| L44         | 10.537 - 5.537    | Pole           | TP37.36x36.52x0.438   | 44               | -260.126 | 3122.322           | **         | **        |
| L45         | 5.537 - 0.537     | Pole           | TP38.2x37.36x0.438    | 45               | -261.367 | 3194.992           | **         | **        |
| L46         | 0.537 - 0         | Pole           | TP38.29x38.2x0.438    | 46               | -262.632 | 3267.663           | **         | **        |
|             |                   |                |                       |                  |          |                    | Summary    |           |
|             |                   |                |                       |                  |          | Pole (L39)         | **         | **        |
|             |                   |                |                       |                  |          | Guy A (L19)        | **         | **        |
|             |                   |                |                       |                  |          | Guy B (L19)        | **         | **        |
|             |                   |                |                       |                  |          | Guy C (L19)        | **         | **        |
|             |                   |                |                       |                  |          | <b>RATING =</b>    | **         | **        |

\*\*Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.

**APPENDIX B**  
**BASE LEVEL DRAWING**



BUSINESS UNIT: 841289

**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

**Pole Geometry**

|   | Pole Height Above Base (ft) | Section Length (ft) | Lap Splice Length (ft) | Number of Sides | Top Diameter (in) | Bottom Diameter (in) | Wall Thickness (in) | Bend Radius (in) | Pole Material |
|---|-----------------------------|---------------------|------------------------|-----------------|-------------------|----------------------|---------------------|------------------|---------------|
| 1 | 150.167                     | 40                  | 0                      | 12              | 15.53             | 21.77                | 0.25                | Auto             | A572-65       |
| 2 | 110.167                     | 40                  | 3.58                   | 12              | 21.77             | 28.64                | 0.3125              | Auto             | A572-65       |
| 3 | 73.747                      | 42.21               | 4.21                   | 12              | 27.40             | 33.66                | 0.375               | Auto             | A572-65       |
| 4 | 35.747                      | 35.747              | 0                      | 12              | 32.29             | 38.29                | 0.4375              | Auto             | A572-65       |

**Reinforcement Configuration**

|    | Bottom Effective Elevation (ft) | Top Effective Elevation (ft) | Type  | Model          | Number | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
|----|---------------------------------|------------------------------|-------|----------------|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 73                              | 95                           | plate | PL-4x1         | 2      |    |    | E1 |    |    |    | E1 |    |    |    |    |    |
| 2  | 47.1667                         | 85                           | plate | CCI-SFP-060100 | 2      |    | E2 |    |    |    | E2 |    |    |    |    |    |    |
| 3  | 47.1667                         | 83                           | plate | CCI-SFP-060100 | 1      |    |    |    |    |    |    |    |    |    | E2 |    |    |
| 4  | 85                              | 110.167                      | plate | CCI-SFP-065125 | 2      |    | E2 |    |    |    | E2 |    |    |    |    |    |    |
| 5  | 82.6667                         | 110.167                      | plate | PL-6.5x1.25    | 1      |    |    |    |    |    |    |    |    |    |    | E2 |    |
| 6  | 112.167                         | 123.75                       | plate | CCI-AFP-045100 | 3      |    | E2 |    |    |    | E2 |    |    |    | E2 |    |    |
| 7  | 32.6667                         | 47.1667                      | plate | CCI-CFP-065125 | 3      |    | E3 |    |    |    | E3 |    |    |    | E3 |    |    |
| 8  | 110.167                         | 112.167                      | plate | BS-6.5x1.25    | 3      | E2 |    |    |    | E2 |    |    |    | E2 |    |    |    |
| 9  | 43.4167                         | 85.5                         | plate | CCI-SFP-045100 | 2      |    |    |    | E4 |    |    |    | E4 |    |    |    |    |
| 10 |                                 |                              |       |                |        |    |    |    |    |    |    |    |    |    |    |    |    |

**Reinforcement Details**

|   | B (in) | H (in) | Gross Area (in <sup>2</sup> ) | Pole Face to Centroid (in) | Bottom Termination Type | Bottom Termination Length (in) | Top Termination Type | Top Termination Length (in) | Lu (in) | Net Area (in <sup>2</sup> ) | Bolt Hole Size (in) | Reinforcement Material |
|---|--------|--------|-------------------------------|----------------------------|-------------------------|--------------------------------|----------------------|-----------------------------|---------|-----------------------------|---------------------|------------------------|
| 1 | 4      | 1      | 4                             | 0.5                        | Welded                  | n/a                            | PC 8.8 - M20 (100)   | 21.000                      | 18.000  | 2.750                       | 1.1875              | A572-65                |
| 2 | 6      | 1      | 6                             | 0.5                        | PC 8.8 - M20 (100)      | 24                             | PC 8.8 - M20 (100)   | 24.000                      | 16.000  | 4.750                       | 1.1875              | A572-65                |
| 3 | 6      | 1      | 6                             | 0.5                        | PC 8.8 - M20 (100)      | 24                             | PC 8.8 - M20 (100)   | 24.000                      | 16.000  | 4.750                       | 1.1875              | A572-65                |
| 4 | 6.5    | 1.25   | 8.125                         | 0.625                      | PC 8.8 - M20 (100)      | 33                             | PC 8.8 - M20 (100)   | 33.000                      | 19.000  | 6.563                       | 1.1875              | A572-65                |
| 5 | 6.5    | 1.25   | 8.125                         | 0.625                      | PC 8.8 - M20 (100)      | 33                             | PC 8.8 - M20 (100)   | 33.000                      | 19.000  | 6.563                       | 1.1875              | A572-65                |
| 6 | 4.5    | 1      | 4.5                           | 0.5                        | PC 8.8 - M20 (100)      | 24                             | PC 8.8 - M20 (100)   | 24.000                      | 20.000  | 3.250                       | 1.1875              | A572-65                |
| 7 | 6.5    | 1.25   | 8.125                         | 0.625                      | PC 8.8 - M20 (100)      | 33                             | PC 8.8 - M20 (100)   | 33.000                      | 19.000  | 6.563                       | 1.1875              | A572-65                |
| 8 | 6.5    | 1.25   | 8.125                         | 0.625                      | PC 8.8 - M20 (100)      | 30                             | PC 8.8 - M20 (100)   | 30.000                      | 16.000  | 6.563                       | 1.1875              | A572-65                |
| 9 | 4.5    | 1      | 4.5                           | 0.5                        | PC 8.8 - M20 (100)      | 18                             | PC 8.8 - M20 (100)   | 18.000                      | 20.000  | 3.250                       | 1.1875              | A572-65                |

**Connection Details for Custom Reinforcements**

| Reinforcement  | End    | # Bolts | N or X | Bolt Spacing (in) | Edge Dist (in) | Weld Grade (ksi) | Transverse (Horiz.) Weld Type | Horiz. Weld Length (in) | Horiz. Groove Depth (in) | Horiz. Groove Angle (deg) | Horiz. Fillet Size (in) | Vertical Weld Length (in) | Vertical Fillet Size (in) | Rev H Connection Capacity (kip) |
|----------------|--------|---------|--------|-------------------|----------------|------------------|-------------------------------|-------------------------|--------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------------|
| PL-4x1         | Top    | 7       | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |
|                | Bottom | -       | -      | -                 | -              | 70               | None                          | -                       | -                        | -                         | -                       | 15                        | 0.313                     | -                               |
| PL-6.5x1.25    | Top    | 11      | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |
|                | Bottom | 11      | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |
| CCI-CFP-065125 | Top    | 11      | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |
|                | Bottom | 11      | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |
| BS-6.5x1.25    | Top    | 10      | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |
|                | Bottom | 10      | N      | 3                 | 3              | -                | -                             | -                       | -                        | -                         | -                       | -                         | -                         | -                               |

# TNX Geometry Input

Increment (ft):  [Export to TNX](#)

|    | Section Height (ft) | Section Length (ft) | Lap Splice Length (ft) | Number of Sides | Top Diameter (in) | Bottom Diameter (in) | Wall Thickness (in) | Tapered Pole Grade | Weight Multiplier |
|----|---------------------|---------------------|------------------------|-----------------|-------------------|----------------------|---------------------|--------------------|-------------------|
| 1  | 150.167 - 145.167   | 5                   |                        | 12              | 15.530            | 16.310               | 0.25                | A572-65            | 1.000             |
| 2  | 145.167 - 140.167   | 5                   |                        | 12              | 16.310            | 17.090               | 0.25                | A572-65            | 1.000             |
| 3  | 140.167 - 135.167   | 5                   |                        | 12              | 17.090            | 17.870               | 0.25                | A572-65            | 1.000             |
| 4  | 135.167 - 130.167   | 5                   |                        | 12              | 17.870            | 18.650               | 0.25                | A572-65            | 1.000             |
| 5  | 130.167 - 125.167   | 5                   |                        | 12              | 18.650            | 19.430               | 0.25                | A572-65            | 1.000             |
| 6  | 125.167 - 123.75    | 1.417               |                        | 12              | 19.430            | 19.651               | 0.25                | A572-65            | 1.000             |
| 7  | 123.75 - 123.5      | 0.25                |                        | 12              | 19.651            | 19.690               | 0.5125              | A572-65            | 0.922             |
| 8  | 123.5 - 118.5       | 5                   |                        | 12              | 19.690            | 20.470               | 0.5                 | A572-65            | 0.927             |
| 9  | 118.5 - 113.5       | 5                   |                        | 12              | 20.470            | 21.250               | 0.4875              | A572-65            | 0.933             |
| 10 | 113.5 - 112.167     | 1.333               |                        | 12              | 21.250            | 21.458               | 0.4875              | A572-65            | 0.929             |
| 11 | 112.167 - 111.917   | 0.25                |                        | 12              | 21.458            | 21.497               | 0.7                 | A572-65            | 0.886             |
| 12 | 111.917 - 110.167   | 1.75                | 0                      | 12              | 21.497            | 21.770               | 0.7                 | A572-65            | 0.879             |
| 13 | 110.167 - 109.917   | 0.25                |                        | 12              | 21.770            | 21.813               | 0.625               | A572-65            | 1.080             |
| 14 | 109.917 - 104.917   | 5                   |                        | 12              | 21.813            | 22.672               | 0.6                 | A572-65            | 1.100             |
| 15 | 104.917 - 99.917    | 5                   |                        | 12              | 22.672            | 23.530               | 0.5875              | A572-65            | 1.101             |
| 16 | 99.917 - 95         | 4.917               |                        | 12              | 23.530            | 24.375               | 0.575               | A572-65            | 1.103             |
| 17 | 95 - 94.75          | 0.25                |                        | 12              | 24.375            | 24.418               | 0.7                 | A572-65            | 1.060             |
| 18 | 94.75 - 89.75       | 5                   |                        | 12              | 24.418            | 25.277               | 0.6875              | A572-65            | 1.057             |
| 19 | 89.75 - 85.5        | 4.25                |                        | 12              | 25.277            | 26.007               | 0.675               | A572-65            | 1.058             |
| 20 | 85.5 - 85.25        | 0.25                |                        | 12              | 26.007            | 26.049               | 0.8625              | A572-65            | 0.963             |
| 21 | 85.25 - 85          | 0.25                |                        | 12              | 26.049            | 26.092               | 0.8625              | A572-65            | 0.962             |
| 22 | 85 - 84.75          | 0.25                |                        | 12              | 26.092            | 26.135               | 0.8375              | A572-65            | 0.926             |
| 23 | 84.75 - 83          | 1.75                |                        | 12              | 26.135            | 26.436               | 0.8375              | A572-65            | 0.919             |
| 24 | 83 - 82.65          | 0.35                |                        | 12              | 26.436            | 26.496               | 0.7125              | A572-65            | 1.038             |
| 25 | 82.65 - 82.4167     | 0.2333              |                        | 12              | 26.496            | 26.536               | 0.7125              | A572-65            | 1.037             |
| 26 | 82.4167 - 77.4167   | 5                   |                        | 12              | 26.536            | 27.395               | 0.6875              | A572-65            | 1.054             |
| 27 | 77.4167 - 73.747    | 7.2497              | 3.58                   | 12              | 27.395            | 28.640               | 0.6875              | A572-65            | 1.040             |
| 28 | 73.747 - 69.167     | 4.58                |                        | 12              | 27.400            | 28.079               | 0.725               | A572-65            | 0.947             |
| 29 | 69.167 - 64.167     | 5                   |                        | 12              | 28.079            | 28.821               | 0.7125              | A572-65            | 0.952             |
| 30 | 64.167 - 59.167     | 5                   |                        | 12              | 28.821            | 29.562               | 0.725               | A572-65            | 0.925             |
| 31 | 59.167 - 54.167     | 5                   |                        | 12              | 29.562            | 30.304               | 0.7125              | A572-65            | 0.931             |
| 32 | 54.167 - 49.167     | 5                   |                        | 12              | 30.304            | 31.045               | 0.7                 | A572-65            | 0.937             |
| 33 | 49.167 - 47.1667    | 2.0003              |                        | 12              | 31.045            | 31.342               | 0.7                 | A572-65            | 0.933             |
| 34 | 47.1667 - 46.9167   | 0.25                |                        | 12              | 31.342            | 31.379               | 0.7875              | A572-65            | 0.913             |
| 35 | 46.9167 - 43.4167   | 3.5                 |                        | 12              | 31.379            | 31.898               | 0.775               | A572-65            | 0.920             |
| 36 | 43.4167 - 43.1667   | 0.25                |                        | 12              | 31.898            | 31.935               | 0.65                | A572-65            | 0.955             |
| 37 | 43.1667 - 38.1667   | 5                   |                        | 12              | 31.935            | 32.677               | 0.65                | A572-65            | 0.946             |
| 38 | 38.1667 - 35.747    | 6.6297              | 4.21                   | 12              | 32.677            | 33.660               | 0.65                | A572-65            | 0.942             |
| 39 | 35.747 - 30.537     | 5.21                |                        | 12              | 32.286            | 33.161               | 0.4375              | A572-65            | 1.000             |
| 40 | 30.537 - 25.537     | 5                   |                        | 12              | 33.161            | 34.001               | 0.4375              | A572-65            | 1.000             |
| 41 | 25.537 - 20.537     | 5                   |                        | 12              | 34.001            | 34.840               | 0.4375              | A572-65            | 1.000             |
| 42 | 20.537 - 15.537     | 5                   |                        | 12              | 34.840            | 35.680               | 0.4375              | A572-65            | 1.000             |
| 43 | 15.537 - 10.537     | 5                   |                        | 12              | 35.680            | 36.520               | 0.4375              | A572-65            | 1.000             |
| 44 | 10.537 - 5.537      | 5                   |                        | 12              | 36.520            | 37.360               | 0.4375              | A572-65            | 1.000             |
| 45 | 5.537 - 0.537       | 5                   |                        | 12              | 37.360            | 38.200               | 0.4375              | A572-65            | 1.000             |
| 46 | 0.537 - 0           | 0.537               |                        | 12              | 38.200            | 38.290               | 0.4375              | A572-65            | 1.000             |

## TNX Section Forces

| Increment (ft): |                     | TNX Output         |                          |                    |  |
|-----------------|---------------------|--------------------|--------------------------|--------------------|--|
| 5               |                     |                    |                          |                    |  |
|                 | Section Height (ft) | P <sub>u</sub> (K) | M <sub>ux</sub> (kip-ft) | V <sub>u</sub> (K) |  |
| 1               | 150.167 - 145.167   | 4.88               | 27.80                    | 6.21               |  |
| 2               | 145.167 - 140.167   | 5.18               | 59.64                    | 6.53               |  |
| 3               | 140.167 - 135.167   | 8.73               | 109.53                   | 9.88               |  |
| 4               | 135.167 - 130.167   | 9.17               | 159.67                   | 10.20              |  |
| 5               | 130.167 - 125.167   | 13.26              | 243.53                   | 15.57              |  |
| 6               | 125.167 - 123.75    | 13.42              | 265.62                   | 15.65              |  |
| 7               | 123.75 - 123.5      | 13.48              | 269.54                   | 15.73              |  |
| 8               | 123.5 - 118.5       | 14.29              | 348.62                   | 16.01              |  |
| 9               | 118.5 - 113.5       | 16.23              | 429.86                   | 16.53              |  |
| 10              | 113.5 - 112.167     | 16.88              | 451.98                   | 16.71              |  |
| 11              | 112.167 - 111.917   | 17.02              | 456.17                   | 16.83              |  |
| 12              | 111.917 - 110.167   | 17.86              | 485.60                   | 16.96              |  |
| 13              | 110.167 - 109.917   | 17.96              | 489.85                   | 17.05              |  |
| 14              | 109.917 - 104.917   | 20.65              | 576.40                   | 18.00              |  |
| 15              | 104.917 - 99.917    | 22.45              | 667.47                   | 18.48              |  |
| 16              | 99.917 - 95         | 23.66              | 758.99                   | 18.81              |  |
| 17              | 95 - 94.75          | 23.74              | 763.69                   | 18.86              |  |
| 18              | 94.75 - 89.75       | 25.12              | 858.81                   | 19.28              |  |
| 19              | 89.75 - 85.5        | 25.42              | 879.32                   | 19.38              |  |
| 20              | 85.5 - 85.25        | 234.59             | 857.59                   | 10.94              |  |
| 21              | 85.25 - 85          | 234.67             | 859.29                   | 10.93              |  |
| 22              | 85 - 84.75          | 234.74             | 860.99                   | 10.92              |  |
| 23              | 84.75 - 83          | 235.25             | 872.93                   | 10.71              |  |
| 24              | 83 - 82.65          | 235.36             | 875.33                   | 10.72              |  |
| 25              | 82.65 - 82.4167     | 235.42             | 876.93                   | 10.82              |  |
| 26              | 82.4167 - 77.4167   | 236.86             | 910.56                   | 10.30              |  |
| 27              | 77.4167 - 73.747    | 240.66             | 938.86                   | 8.89               |  |
| 28              | 73.747 - 69.167     | 243.05             | 981.51                   | 9.75               |  |
| 29              | 69.167 - 64.167     | 244.49             | 1028.41                  | 9.25               |  |
| 30              | 64.167 - 59.167     | 245.94             | 1072.90                  | 8.78               |  |
| 31              | 59.167 - 54.167     | 247.40             | 1115.10                  | 8.33               |  |
| 32              | 54.167 - 49.167     | 248.89             | 1155.07                  | 7.88               |  |
| 33              | 49.167 - 47.1667    | 249.49             | 1170.44                  | 7.71               |  |
| 34              | 47.1667 - 46.9167   | 249.57             | 1172.34                  | 7.66               |  |
| 35              | 46.9167 - 43.4167   | 250.72             | 1198.48                  | 7.47               |  |
| 36              | 43.4167 - 43.1667   | 250.79             | 1200.32                  | 7.40               |  |
| 37              | 43.1667 - 38.1667   | 252.26             | 1235.82                  | 6.99               |  |
| 38              | 38.1667 - 35.747    | 252.99             | 1252.19                  | 6.79               |  |
| 39              | 35.747 - 30.537     | 255.26             | 1286.64                  | 6.58               |  |
| 40              | 30.537 - 25.537     | 256.41             | 1316.60                  | 5.72               |  |
| 41              | 25.537 - 20.537     | 257.70             | 1342.30                  | 5.00               |  |
| 42              | 20.537 - 15.537     | 258.90             | 1364.72                  | 4.27               |  |
| 43              | 15.537 - 10.537     | 260.12             | 1383.63                  | 3.60               |  |
| 44              | 10.537 - 5.537      | 261.37             | 1399.36                  | 3.00               |  |
| 45              | 5.537 - 0.537       | 262.63             | 1412.20                  | 2.45               |  |
| 46              | 0.537 - 0           | 262.77             | 1413.42                  | 2.36               |  |

# Analysis Results

| Elevation (ft)  | Component Type | Size                   | Critical Element         | % Capacity | Pass / Fail |
|-----------------|----------------|------------------------|--------------------------|------------|-------------|
| 150.17 - 145.17 | Pole           | TP16.31x15.53x0.25     | Pole                     | 9.2%       | Pass        |
| 145.17 - 140.17 | Pole           | TP17.09x16.31x0.25     | Pole                     | 17.3%      | Pass        |
| 140.17 - 135.17 | Pole           | TP17.87x17.09x0.25     | Pole                     | 29.0%      | Pass        |
| 135.17 - 130.17 | Pole           | TP18.65x17.87x0.25     | Pole                     | 38.4%      | Pass        |
| 130.17 - 125.17 | Pole           | TP19.43x18.65x0.25     | Pole                     | 54.0%      | Pass        |
| 125.17 - 123.75 | Pole           | TP19.651x19.43x0.25    | Pole                     | 57.4%      | Pass        |
| 123.75 - 123.5  | Pole + Reinf.  | TP19.69x19.651x0.5125  | Reinf. 6 Tension Rupture | 50.3%      | Pass        |
| 123.5 - 118.5   | Pole + Reinf.  | TP20.47x19.69x0.5      | Reinf. 6 Tension Rupture | 61.1%      | Pass        |
| 118.5 - 113.5   | Pole + Reinf.  | TP21.25x20.47x0.4875   | Reinf. 6 Tension Rupture | 71.1%      | Pass        |
| 113.5 - 112.17  | Pole + Reinf.  | TP21.458x21.25x0.4875  | Reinf. 6 Tension Rupture | 73.6%      | Pass        |
| 112.17 - 111.92 | Pole + Reinf.  | TP21.497x21.458x0.7    | Reinf. 8 Tension Rupture | 47.7%      | Pass        |
| 111.92 - 110.17 | Pole + Reinf.  | TP21.77x21.497x0.7     | Reinf. 8 Tension Rupture | 49.9%      | Pass        |
| 110.17 - 109.92 | Pole + Reinf.  | TP21.813x21.77x0.625   | Reinf. 4 Tension Rupture | 48.9%      | Pass        |
| 109.92 - 104.92 | Pole + Reinf.  | TP22.672x21.813x0.6    | Reinf. 4 Tension Rupture | 54.4%      | Pass        |
| 104.92 - 99.92  | Pole + Reinf.  | TP23.53x22.672x0.5875  | Reinf. 4 Tension Rupture | 59.6%      | Pass        |
| 99.92 - 95      | Pole + Reinf.  | TP24.375x23.53x0.575   | Reinf. 4 Tension Rupture | 64.2%      | Pass        |
| 95 - 94.75      | Pole + Reinf.  | TP24.418x24.375x0.7    | Reinf. 1 Tension Rupture | 63.4%      | Pass        |
| 94.75 - 89.75   | Pole + Reinf.  | TP25.277x24.418x0.6875 | Reinf. 1 Tension Rupture | 67.9%      | Pass        |
| 89.75 - 85.5    | Pole + Reinf.  | TP26.007x25.277x0.675  | Reinf. 1 Tension Rupture | 66.7%      | Pass        |
| 85.5 - 85.25    | Pole + Reinf.  | TP26.049x26.007x0.8625 | Reinf. 5 Tension Rupture | 59.6%      | Pass        |
| 85.25 - 85      | Pole + Reinf.  | TP26.092x26.049x0.8625 | Reinf. 5 Tension Rupture | 59.6%      | Pass        |
| 85 - 84.75      | Pole + Reinf.  | TP26.135x26.092x0.8375 | Reinf. 1 Tension Rupture | 61.7%      | Pass        |
| 84.75 - 83      | Pole + Reinf.  | TP26.436x26.135x0.8375 | Reinf. 1 Tension Rupture | 61.6%      | Pass        |
| 83 - 82.65      | Pole + Reinf.  | TP26.496x26.436x0.7125 | Reinf. 3 Tension Rupture | 67.7%      | Pass        |
| 82.65 - 82.42   | Pole + Reinf.  | TP26.536x26.496x0.7125 | Reinf. 3 Tension Rupture | 67.7%      | Pass        |
| 82.42 - 77.42   | Pole + Reinf.  | TP27.395x26.536x0.6875 | Reinf. 3 Tension Rupture | 66.9%      | Pass        |
| 77.42 - 73.75   | Pole + Reinf.  | TP28.64x27.395x0.6875  | Reinf. 3 Tension Rupture | 66.7%      | Pass        |
| 73.75 - 69.17   | Pole + Reinf.  | TP28.079x27.4x0.725    | Reinf. 2 Tension Rupture | 64.2%      | Pass        |
| 69.17 - 64.17   | Pole + Reinf.  | TP28.821x28.079x0.7125 | Reinf. 2 Tension Rupture | 64.4%      | Pass        |
| 64.17 - 59.17   | Pole + Reinf.  | TP29.562x28.821x0.725  | Reinf. 9 Tension Rupture | 64.5%      | Pass        |
| 59.17 - 54.17   | Pole + Reinf.  | TP30.304x29.562x0.7125 | Reinf. 9 Tension Rupture | 64.5%      | Pass        |
| 54.17 - 49.17   | Pole + Reinf.  | TP31.045x30.304x0.7    | Reinf. 9 Tension Rupture | 64.3%      | Pass        |
| 49.17 - 47.17   | Pole + Reinf.  | TP31.342x31.045x0.7    | Reinf. 9 Tension Rupture | 64.2%      | Pass        |
| 47.17 - 46.92   | Pole + Reinf.  | TP31.379x31.342x0.7875 | Reinf. 9 Tension Rupture | 58.2%      | Pass        |
| 46.92 - 43.42   | Pole + Reinf.  | TP31.898x31.379x0.775  | Reinf. 9 Tension Rupture | 58.1%      | Pass        |
| 43.42 - 43.17   | Pole + Reinf.  | TP31.935x31.898x0.65   | Reinf. 7 Tension Rupture | 63.9%      | Pass        |
| 43.17 - 38.17   | Pole + Reinf.  | TP32.677x31.935x0.65   | Reinf. 7 Tension Rupture | 63.4%      | Pass        |
| 38.17 - 35.75   | Pole + Reinf.  | TP33.66x32.677x0.65    | Reinf. 7 Tension Rupture | 63.1%      | Pass        |
| 35.75 - 30.54   | Pole           | TP33.161x32.286x0.4375 | Pole                     | 63.3%      | Pass        |
| 30.54 - 25.54   | Pole           | TP34.001x33.161x0.4375 | Pole                     | 61.6%      | Pass        |
| 25.54 - 20.54   | Pole           | TP34.84x34.001x0.4375  | Pole                     | 59.8%      | Pass        |
| 20.54 - 15.54   | Pole           | TP35.68x34.84x0.4375   | Pole                     | 58.0%      | Pass        |
| 15.54 - 10.54   | Pole           | TP36.52x35.68x0.4375   | Pole                     | 56.3%      | Pass        |
| 10.54 - 5.54    | Pole           | TP37.36x36.52x0.4375   | Pole                     | 54.8%      | Pass        |
| 5.54 - 0.54     | Pole           | TP38.2x37.36x0.4375    | Pole                     | 53.4%      | Pass        |
| 0.54 - 0        | Pole           | TP38.29x38.2x0.4375    | Pole                     | 53.2%      | Pass        |
|                 |                |                        |                          | Summary    |             |
|                 |                |                        | Pole                     | 63.3%      | Pass        |
|                 |                |                        | Reinforcement            | 73.6%      | Pass        |
|                 |                |                        | Overall                  | 73.6%      | Pass        |



# Additional Calculations

| Section<br>Elevation (ft) | Moment of Inertia (in <sup>4</sup> ) |        |       | Area (in <sup>2</sup> ) |        |       | % Capacity* |       |       |       |       |       |       |    |       |       |
|---------------------------|--------------------------------------|--------|-------|-------------------------|--------|-------|-------------|-------|-------|-------|-------|-------|-------|----|-------|-------|
|                           | Pole                                 | Reinf. | Total | Pole                    | Reinf. | Total | Pole        | R1    | R2    | R3    | R4    | R5    | R6    | R7 | R8    | R9    |
| 150.17 - 145.17           | 426                                  | n/a    | 426   | 12.91                   | n/a    | 12.91 | 9.2%        |       |       |       |       |       |       |    |       |       |
| 145.17 - 140.17           | 491                                  | n/a    | 491   | 13.54                   | n/a    | 13.54 | 17.3%       |       |       |       |       |       |       |    |       |       |
| 140.17 - 135.17           | 563                                  | n/a    | 563   | 14.16                   | n/a    | 14.16 | 29.0%       |       |       |       |       |       |       |    |       |       |
| 135.17 - 130.17           | 641                                  | n/a    | 641   | 14.79                   | n/a    | 14.79 | 38.4%       |       |       |       |       |       |       |    |       |       |
| 130.17 - 125.17           | 726                                  | n/a    | 726   | 15.42                   | n/a    | 15.42 | 54.0%       |       |       |       |       |       |       |    |       |       |
| 125.17 - 123.75           | 751                                  | n/a    | 751   | 15.60                   | n/a    | 15.60 | 57.4%       |       |       |       |       |       |       |    |       |       |
| 123.75 - 123.5            | 756                                  | 734    | 1490  | 15.63                   | 13.50  | 29.13 | 28.5%       |       |       |       |       |       | 50.3% |    |       |       |
| 123.5 - 118.5             | 851                                  | 790    | 1640  | 16.25                   | 13.50  | 29.75 | 34.7%       |       |       |       |       |       | 61.1% |    |       |       |
| 118.5 - 113.5             | 953                                  | 847    | 1800  | 16.88                   | 13.50  | 30.38 | 40.6%       |       |       |       |       |       | 71.1% |    |       |       |
| 113.5 - 112.17            | 981                                  | 863    | 1845  | 17.05                   | 13.50  | 30.55 | 42.2%       |       |       |       |       |       | 73.6% |    |       |       |
| 112.17 - 111.92           | 987                                  | 1621   | 2608  | 17.08                   | 24.38  | 41.45 | 30.2%       |       |       |       |       |       |       |    | 47.7% |       |
| 111.92 - 110.17           | 1025                                 | 1659   | 2685  | 17.30                   | 24.38  | 41.67 | 31.7%       |       |       |       |       |       |       |    | 49.9% |       |
| 110.17 - 109.92           | 1296                                 | 1153   | 2449  | 21.60                   | 24.38  | 45.98 | 38.5%       |       |       |       | 48.9% | 45.2% |       |    |       |       |
| 109.92 - 104.92           | 1457                                 | 1237   | 2694  | 22.47                   | 24.38  | 46.84 | 42.8%       |       |       |       | 54.4% | 50.3% |       |    |       |       |
| 104.92 - 99.92            | 1631                                 | 1324   | 2954  | 23.33                   | 24.38  | 47.70 | 46.8%       |       |       |       | 59.6% | 55.1% |       |    |       |       |
| 99.92 - 95                | 1814                                 | 1412   | 3227  | 24.18                   | 24.38  | 48.55 | 50.4%       |       |       |       | 64.2% | 59.4% |       |    |       |       |
| 95 - 94.75                | 1832                                 | 2065   | 3897  | 24.22                   | 32.38  | 56.60 | 42.0%       | 63.4% |       |       | 50.1% | 57.9% |       |    |       |       |
| 94.75 - 89.75             | 2034                                 | 2203   | 4237  | 25.08                   | 32.38  | 57.46 | 44.9%       | 67.9% |       |       | 53.6% | 61.8% |       |    |       |       |
| 89.75 - 85.5              | 2217                                 | 2323   | 4540  | 25.82                   | 32.38  | 58.19 | 44.1%       | 66.7% |       |       | 52.8% | 60.7% |       |    |       |       |
| 85.5 - 85.25              | 2243                                 | 3459   | 5702  | 25.86                   | 41.38  | 67.24 | 40.7%       | 57.2% |       |       | 49.3% | 59.6% |       |    |       | 57.8% |
| 85.25 - 85                | 2254                                 | 3470   | 5724  | 25.90                   | 41.38  | 67.28 | 40.7%       | 57.2% |       |       | 49.3% | 59.6% |       |    |       | 57.8% |
| 85 - 84.75                | 2226                                 | 3386   | 5612  | 25.95                   | 37.13  | 63.07 | 39.6%       | 61.7% | 54.9% |       |       | 61.1% |       |    |       | 61.1% |
| 84.75 - 83                | 2305                                 | 3460   | 5765  | 26.25                   | 37.13  | 63.37 | 39.6%       | 61.6% | 54.7% |       |       | 60.9% |       |    |       | 61.0% |
| 83 - 82.65                | 2381                                 | 2683   | 5063  | 26.31                   | 35.00  | 61.31 | 48.4%       | 62.5% | 59.2% | 67.7% |       |       |       |    |       | 59.5% |
| 82.65 - 82.42             | 2392                                 | 2690   | 5082  | 26.35                   | 35.00  | 61.35 | 48.4%       | 62.5% | 59.2% | 67.7% |       |       |       |    |       | 59.5% |
| 82.42 - 77.42             | 2632                                 | 2860   | 5492  | 27.21                   | 35.00  | 62.21 | 48.3%       | 62.0% | 58.7% | 66.9% |       |       |       |    |       | 59.0% |
| 77.42 - 73.75             | 2818                                 | 2988   | 5806  | 27.85                   | 35.00  | 62.85 | 48.5%       | 62.0% | 58.6% | 66.7% |       |       |       |    |       | 59.0% |
| 73.75 - 69.17             | 3301                                 | 2835   | 6136  | 33.41                   | 27.00  | 60.41 | 45.1%       |       | 64.2% | 64.2% |       |       |       |    |       | 64.1% |
| 69.17 - 64.17             | 3573                                 | 2980   | 6553  | 34.30                   | 27.00  | 61.30 | 45.3%       |       | 64.4% | 64.4% |       |       |       |    |       | 64.4% |
| 64.17 - 59.17             | 3852                                 | 3327   | 7179  | 35.19                   | 27.00  | 62.19 | 43.4%       |       | 64.5% | 64.5% |       |       |       |    |       | 64.5% |
| 59.17 - 54.17             | 4152                                 | 3490   | 7642  | 36.09                   | 27.00  | 63.09 | 43.4%       |       | 64.4% | 64.4% |       |       |       |    |       | 64.5% |
| 54.17 - 49.17             | 4468                                 | 3656   | 8124  | 36.98                   | 27.00  | 63.98 | 43.2%       |       | 64.1% | 64.1% |       |       |       |    |       | 64.3% |
| 49.17 - 47.17             | 4599                                 | 3723   | 8322  | 37.34                   | 27.00  | 64.34 | 43.2%       |       | 64.0% | 64.0% |       |       |       |    |       | 64.2% |
| 47.17 - 46.92             | 4613                                 | 4639   | 9251  | 37.38                   | 33.38  | 70.76 | 38.9%       |       |       |       |       |       |       |    | 56.8% | 58.2% |
| 46.92 - 43.42             | 4848                                 | 4786   | 9634  | 38.01                   | 33.38  | 71.38 | 39.0%       |       |       |       |       |       |       |    | 56.7% | 58.1% |
| 43.42 - 43.17             | 4852                                 | 3400   | 8252  | 38.05                   | 24.38  | 62.43 | 43.2%       |       |       |       |       |       |       |    | 63.9% |       |
| 43.17 - 38.17             | 5202                                 | 3552   | 8753  | 38.95                   | 24.38  | 63.32 | 43.2%       |       |       |       |       |       |       |    | 63.4% |       |
| 38.17 - 35.75             | 5377                                 | 3626   | 9003  | 39.38                   | 24.38  | 63.76 | 43.1%       |       |       |       |       |       |       |    | 63.1% |       |
| 35.75 - 30.54             | 6309                                 | n/a    | 6309  | 46.03                   | n/a    | 46.03 | 63.3%       |       |       |       |       |       |       |    |       |       |
| 30.54 - 25.54             | 6808                                 | n/a    | 6808  | 47.21                   | n/a    | 47.21 | 61.6%       |       |       |       |       |       |       |    |       |       |
| 25.54 - 20.54             | 7332                                 | n/a    | 7332  | 48.40                   | n/a    | 48.40 | 59.8%       |       |       |       |       |       |       |    |       |       |
| 20.54 - 15.54             | 7882                                 | n/a    | 7882  | 49.58                   | n/a    | 49.58 | 58.0%       |       |       |       |       |       |       |    |       |       |
| 15.54 - 10.54             | 8459                                 | n/a    | 8459  | 50.76                   | n/a    | 50.76 | 56.3%       |       |       |       |       |       |       |    |       |       |
| 10.54 - 5.54              | 9063                                 | n/a    | 9063  | 51.94                   | n/a    | 51.94 | 54.8%       |       |       |       |       |       |       |    |       |       |
| 5.54 - 0.54               | 9696                                 | n/a    | 9696  | 53.12                   | n/a    | 53.12 | 53.4%       |       |       |       |       |       |       |    |       |       |
| 0.54 - 0                  | 9766                                 | n/a    | 9766  | 53.25                   | n/a    | 53.25 | 53.2%       |       |       |       |       |       |       |    |       |       |

Note: Section capacity checked using 5 degree increments.  
Rating per TIA-222-H Section 15.5.

# Monopole Flange Plate Connection

Elevation = 110.167 ft.



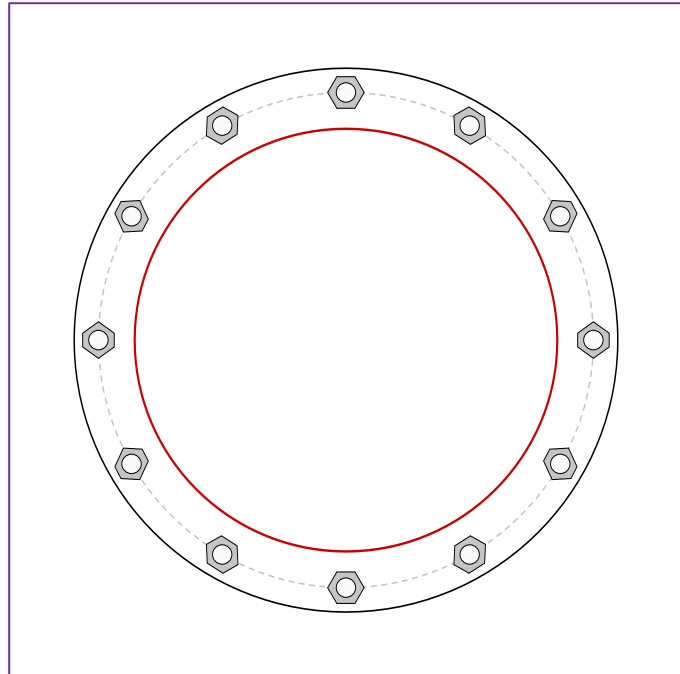
|           |                  |
|-----------|------------------|
| BU #      | 841289           |
| Site Name | OLD SAYBROOK, CT |
| Order #   | 586098, Rev. 0   |

|                  |   |
|------------------|---|
| TIA-222 Revision | H |
|------------------|---|

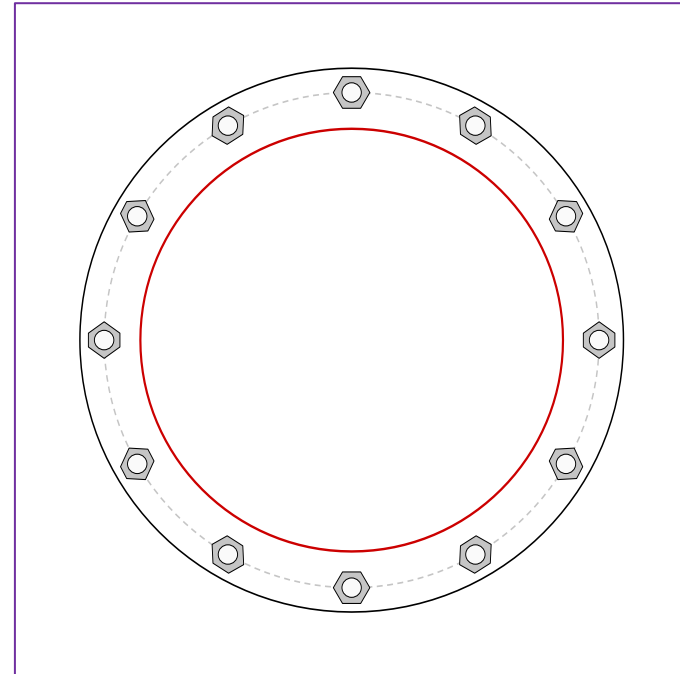
| Applied Loads to Flange Connections |       | Applied Loads to Bridge Stiffeners |        |
|-------------------------------------|-------|------------------------------------|--------|
| Moment (kip-ft)                     | 96.32 | Moment (kip-ft)                    | 389.28 |
| Axial Force (kips)                  | 17.86 | Axial Force (kips)                 | 0.00   |
| Shear Force (kips)                  | 16.96 | Shear Force (kips)                 | 0.00   |

\*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



### Connection Properties

#### Bolt Data

(12) 1"  $\phi$  bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 25.5" BC

#### Top Plate Data

28" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

#### Top Stiffener Data

N/A

#### Top Pole Data

21.77" x 0.25" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

#### Bridge Stiffener Group 1 Data

(3) Bolted, 6.5"x1.25", A572-65, Lu=16", Neglect Flange in MOI: No

#### Bottom Plate Data

28" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)

#### Bottom Stiffener Data

N/A

#### Bottom Pole Data

21.77" x 0.3125" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

### Analysis Results

#### Bolt Capacity

|                  |  |
|------------------|--|
| Max Load (kips)  | 13.61  |
| Allowable (kips) | 54.50  |
| Stress Rating:   | <b>23.8%</b> <span style="color: green;">Pass</span> |

#### Top Plate Capacity

|                             |              |   |
|-----------------------------|--------------|---|
| Max Stress (ksi):           | 13.85        | (Flexural)                              |
| Allowable Stress (ksi):     | 32.40        |   |
| Stress Rating:              | <b>40.7%</b> | <span style="color: green;">Pass</span> |
| Tension Side Stress Rating: | <b>13.1%</b> | <span style="color: green;">Pass</span> |

#### Bottom Plate Capacity

|                             |              |   |
|-----------------------------|--------------|---|
| Max Stress (ksi):           | 3.46         | (Flexural)                              |
| Allowable Stress (ksi):     | 32.40        |   |
| Stress Rating:              | <b>10.2%</b> | <span style="color: green;">Pass</span> |
| Tension Side Stress Rating: | <b>3.3%</b>  | <span style="color: green;">Pass</span> |

#### Bridge Stiffener Group 1 Analysis Capacity

|                        |  |
|------------------------|--|
| Max Compression (kip): | 222.45   |
| Max Tension (kip):     | 222.45   |
| Comp. Capacity (kip):  | 394.29   |
| Tens. Capacity (kip):  | 393.75 (Rupture)                                     |
| Comp. Stress Rating:   | <b>53.7%</b> <span style="color: green;">Pass</span> |
| Tens. Stress Rating:   | <b>53.8%</b> <span style="color: green;">Pass</span> |

# Monopole Base Plate Connection

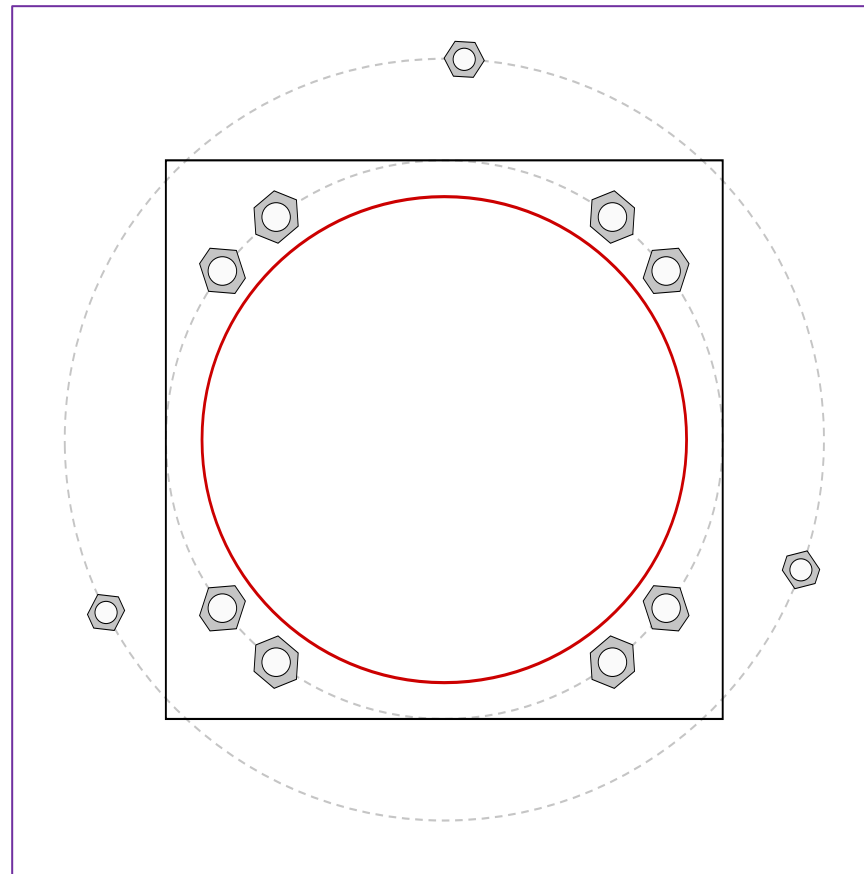


| Site Info |                  |
|-----------|------------------|
| BU #      | 841289           |
| Site Name | OLD SAYBROOK, CT |
| Order #   | 586098, Rev. 0   |

| Analysis Considerations |                  |
|-------------------------|------------------|
| TIA-222 Revision        | H                |
| Grout Considered:       | See Custom Sheet |
| $l_{ar}$ (in)           | See Custom Sheet |

| Applied Loads      |         |
|--------------------|---------|
| Moment (kip-ft)    | 1413.42 |
| Axial Force (kips) | 262.77  |
| Shear Force (kips) | 2.36    |

\*TIA-222-H Section 15.5 Applied



| Connection Properties | Analysis Results |
|-----------------------|------------------|
|-----------------------|------------------|

**Anchor Rod Data**

GROUP 1: (8) 2-1/4"  $\phi$  bolts (A615-75 N;  $F_y=75$  ksi,  $F_u=100$  ksi) on 44" BC  
*Anchor Spacing: 6 in*

GROUP 2: (3) 1-3/4"  $\phi$  bolts (F1554-105 N;  $F_y=105$  ksi,  $F_u=125$  ksi) on 60" BC  
*pos. (deg): 87, 207, 340*

**Base Plate Data**

44" W x 2.5" Plate (A572-50;  $F_y=50$  ksi,  $F_u=65$  ksi); Clip: 0 in

**Stiffener Data**

N/A

**Pole Data**

38.29" x 0.4375" 12-sided pole (A572-65;  $F_y=65$  ksi,  $F_u=80$  ksi)

**Anchor Rod Summary** *(units of kips, kip-in)*

GROUP 1:

|                    |                         |                      |
|--------------------|-------------------------|----------------------|
| $P_{u_c} = 175.99$ | $\phi P_{n_c} = 268.39$ | <b>Stress Rating</b> |
| $V_u = 0.29$       | $\phi V_n = 120.77$     | <b>62.5%</b>         |
| $M_u = n/a$        | $\phi M_n = n/a$        | <b>Pass</b>          |

GROUP 2:

|                   |                         |                      |
|-------------------|-------------------------|----------------------|
| $P_{u_t} = 111.5$ | $\phi P_{n_t} = 178.13$ | <b>Stress Rating</b> |
| $V_u = 0$         | $\phi V_n = 112.75$     | <b>59.6%</b>         |
| $M_u = n/a$       | $\phi M_n = n/a$        | <b>Pass</b>          |

**Base Plate Summary**

|                         |              |             |
|-------------------------|--------------|-------------|
| Max Stress (ksi):       | 24.49        | (Flexural)  |
| Allowable Stress (ksi): | 45           |             |
| Stress Rating:          | <b>51.8%</b> | <b>Pass</b> |

# CCiplate

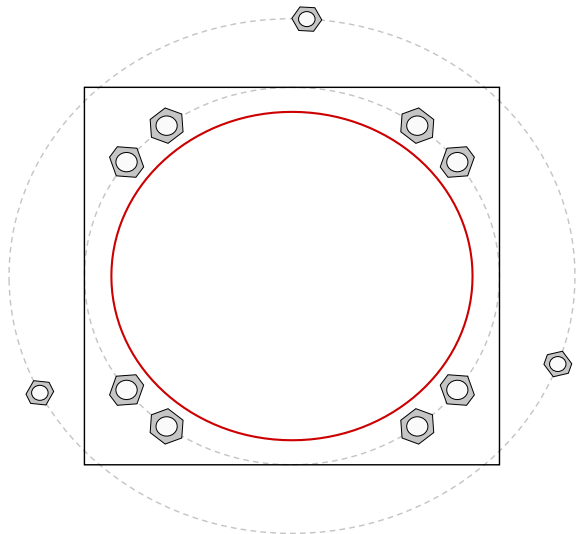
Elevation (ft) 0 (Base)

note: Bending interaction not considered when Grout Considered = "Yes"

| Bolt Group | Resist Axial | Resist Shear | Induce Plate Bending | Grout Considered | Apply at BARB Elevation | BARB CL Elevation (ft) |
|------------|--------------|--------------|----------------------|------------------|-------------------------|------------------------|
| 1          | Yes          | Yes          | Yes                  | No               | No                      |                        |
| 2          | No           | No           | No                   | No               | No                      |                        |

| Custom Bolt Connection |               |                 |               |           |                  |                      |                |             |                                |              |
|------------------------|---------------|-----------------|---------------|-----------|------------------|----------------------|----------------|-------------|--------------------------------|--------------|
| Bolt                   | Bolt Group ID | Location (deg.) | Diameter (in) | Material  | Bolt Circle (in) | Eta Factor, $\eta$ : | $I_{ar}$ (in): | Thread Type | Area Override, in <sup>2</sup> | Tension Only |
| 1                      | 1             | 37.16252        | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 2                      | 1             | 52.83748        | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 3                      | 1             | 127.16252       | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 4                      | 1             | 142.83748       | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 5                      | 1             | 217.16252       | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 6                      | 1             | 232.83748       | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 7                      | 1             | 307.16252       | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 8                      | 1             | 322.83748       | 2.25          | A615-75   | 44               | 0.5                  | 0              | N-Included  |                                | No           |
| 9                      | 2             | 87              | 1.75          | F1554-105 | 60               | 0.5                  | 0              | N-Included  |                                | No           |
| 10                     | 2             | 207             | 1.75          | F1554-105 | 60               | 0.5                  | 0              | N-Included  |                                | No           |
| 11                     | 2             | 340             | 1.75          | F1554-105 | 60               | 0.5                  | 0              | N-Included  |                                | No           |

## Plot Graphic



|         |  |
|---------|--|
| PROJECT | <b>93496.032.01 - OLD SAYBROOK, CT</b> |
| SUBJECT | <b>Anchor Rod Bracket Analysis</b>     |
| DATE    | <b>09-08-21</b>                        |
| v4.6.1  | Apply TIA-222-H Section 15.5?          |

|                               |          |
|-------------------------------|----------|
| TIA-222 Rev.                  | <b>H</b> |
| Apply TIA-222-H Section 15.5? | Yes      |



| Analysis Criteria |              |
|-------------------|--------------|
| Design/Analysis   | Analysis     |
| Load Type         | Current Load |
| Current load      | 111.5 kips   |
| AR Capacity       | 227.3 kips   |

|            |          |
|------------|----------|
| Tower Type | Monopole |
|------------|----------|

| Manufacturers Tower Prop. |           |
|---------------------------|-----------|
| Pole Thickness            | 0.4375 in |
| Pole Grade                | A572-65   |
| Fy                        | 65 ksi    |
| Fu                        | 80 ksi    |
| Base Plate Gr.            | A572-50   |
| Fy                        | 50 ksi    |
| Fu                        | 65 ksi    |

| Post-Installed Adhesive AR Mod. |           |
|---------------------------------|-----------|
| ARB Type                        | Welded    |
| Size                            | 1.75 in   |
| Grade                           | F1554-105 |
| Fy                              | 105 ksi   |
| Fu                              | 125 ksi   |

| Anchor Rod Bracket Analysis Checks |                        |              |
|------------------------------------|------------------------|--------------|
| Tube Bearing                       | 26.1%                  | -            |
| Tube Compression                   | 39.2%                  | -            |
| Gusset Shear                       | 9.8%                   | -            |
| Gusset Flexure                     | N/A                    | -            |
| Welds                              | Gusset to Tower and BP | 24.0%        |
|                                    | Gusset to Tube         | 26.5%        |
|                                    | Geometry               | N/A          |
| Tower Punching                     | 23.9%                  | -            |
| Tube Punching                      | 7.9%                   | -            |
| <b>Utilization</b>                 |                        | <b>39.2%</b> |

| Bracket Properties     |               |                                   |                       |                            |               |
|------------------------|---------------|-----------------------------------|-----------------------|----------------------------|---------------|
| Gusset                 |               | Pipe/Tube                         |                       | Weld - Gusset to Pipe/Tube |               |
| Thickness              | 1.25 in       | Size                              | HSS4x4x1/2            | FEXX                       | 70 ksi        |
| Width at Tube          | 8.625 in      | Total Length                      | 30 in                 | Weld Type                  | Double Fillet |
| Height at Pole         | 30 in         | Length above Gusset               | 3 in                  | Fillet Size                | 3/8 in        |
| Height at Tube         | 24 in         | Length below Gusset               | 3 in                  |                            |               |
| Grade                  | A572-65       | Grade                             | A500 Grade C (Square) |                            |               |
| Fy                     | 65 ksi        | Fy                                | 50 ksi                |                            |               |
| Fu                     | 80 ksi        | Fu                                | 62 ksi                |                            |               |
| Weld - Gusset to Tower |               | Weld - Gusset to Base Plate       |                       |                            |               |
| FEXX                   | 70 ksi        | FEXX                              | 70 ksi                |                            |               |
| Weld Type              | Double Fillet | Weld Type                         | PJP - Double Bevel    |                            |               |
| Fillet Size            | 7/16 in       | Fillet Size                       | 5/8 in                |                            |               |
|                        |               | Bevel Depth                       | 5/8 in                |                            |               |
|                        |               | Gap                               | 1.25 in               |                            |               |
|                        |               | Notch (horiz)                     | 0.75 in               |                            |               |
|                        |               | Notch (vert)                      | 0.75 in               |                            |               |
|                        |               | Pipe/Tube Welded to Base/Footpad? | No                    |                            |               |

# Pier and Pad Foundation



**BU #:** 841289  
**Site Name:** OLD SAYBROOK,  
**App. Number:** 586098, Rev. 0

**TIA-222 Revision:** H  
**Tower Type:** Monopole

**Top & Bot. Pad Rein. Different?:**   
**Block Foundation?:**   
**Rectangular Pad?:**

| Superstructure Analysis Reactions |      |         |
|-----------------------------------|------|---------|
| Compression, $P_{comp}$ :         | 263  | kips    |
| Base Shear, $Vu_{comp}$ :         | 7    | kips    |
|                                   |      |         |
| Moment, $M_u$ :                   | 1413 | ft-kips |
| Tower Height, $H$ :               | 150  | ft      |
|                                   |      |         |
| BP Dist. Above Fdn, $bp_{dist}$ : | 2.25 | in      |

| Foundation Analysis Checks            |          |         |         |       |
|---------------------------------------|----------|---------|---------|-------|
|                                       | Capacity | Demand  | Rating* | Check |
| <i>Lateral (Sliding) (kips)</i>       | 203.31   | 7.00    | 3.3%    | Pass  |
| <i>Bearing Pressure (ksf)</i>         | 22.50    | 10.62   | 47.2%   | Pass  |
| <i>Overturning (kip*ft)</i>           | 2070.60  | 1477.31 | 71.3%   | Pass  |
| <i>Pier Flexure (Comp.) (kip*ft)</i>  | 12388.90 | 1458.50 | 11.2%   | Pass  |
|                                       |          |         |         |       |
| <i>Pier Compression (kip)</i>         | 22913.28 | 321.11  | 1.3%    | Pass  |
| <i>Pad Flexure (kip*ft)</i>           | 879.26   | 260.50  | 28.2%   | Pass  |
| <i>Pad Shear - 1-way (kips)</i>       | 303.90   | 0.00    | 0.0%    | Pass  |
| <i>Pad Shear - 2-way (Comp) (ksi)</i> | 0.164    | 0.000   | 0.0%    | Pass  |
| <i>Flexural 2-way (Comp) (kip*ft)</i> | 1758.53  | 875.10  | 47.4%   | Pass  |

| Pier Properties                  |        |    |
|----------------------------------|--------|----|
| Pier Shape:                      | Square |    |
| Pier Diameter, $dpier$ :         | 8      | ft |
| Ext. Above Grade, $E$ :          | 0.3    | ft |
| Pier Rebar Size, $Sc$ :          | 11     |    |
| Pier Rebar Quantity, $mc$ :      | 44     |    |
| Pier Tie/Spiral Size, $St$ :     | 4      |    |
| Pier Tie/Spiral Quantity, $mt$ : | 7      |    |
| Pier Reinforcement Type:         | Tie    |    |
| Pier Clear Cover, $cc_{pier}$ :  | 3      | in |

\*Rating per TIA-222-H Section 15.5

|                     |       |
|---------------------|-------|
| Structural Rating*: | 47.4% |
| Soil Rating*:       | 71.3% |

| Pad Properties                               |     |    |
|--|-----|----|
| Depth, $D$ :                                 | 8.7 | ft |
| Pad Width, $W_1$ :                           | 12  | ft |
| Pad Thickness, $T$ :                         | 2.5 | ft |
| Pad Rebar Size (Bottom dir. 2), $Sp_2$ :     | 7   |    |
| Pad Rebar Quantity (Bottom dir. 2), $mp_2$ : | 13  |    |
| Pad Clear Cover, $cc_{pad}$ :                | 3   | in |

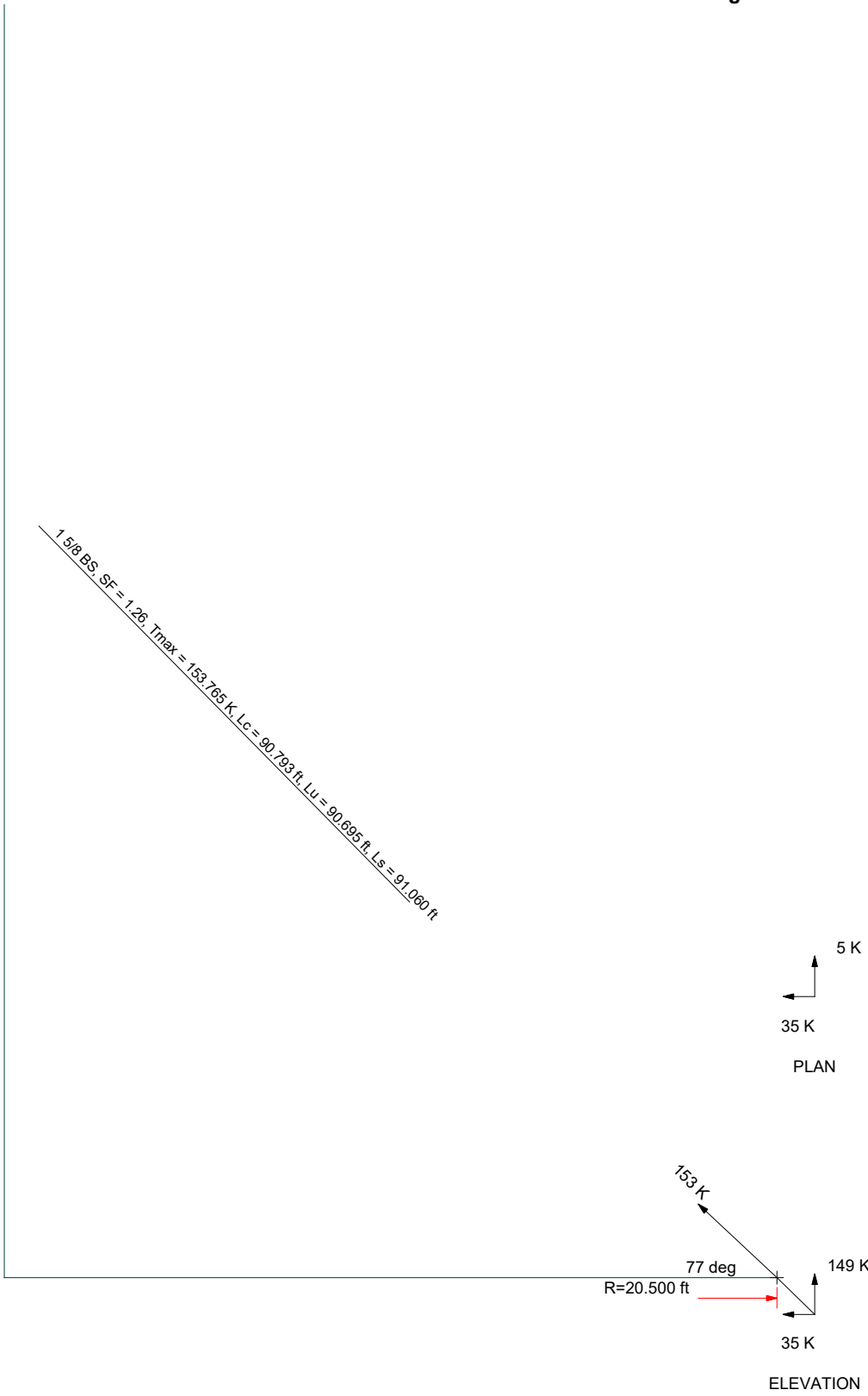
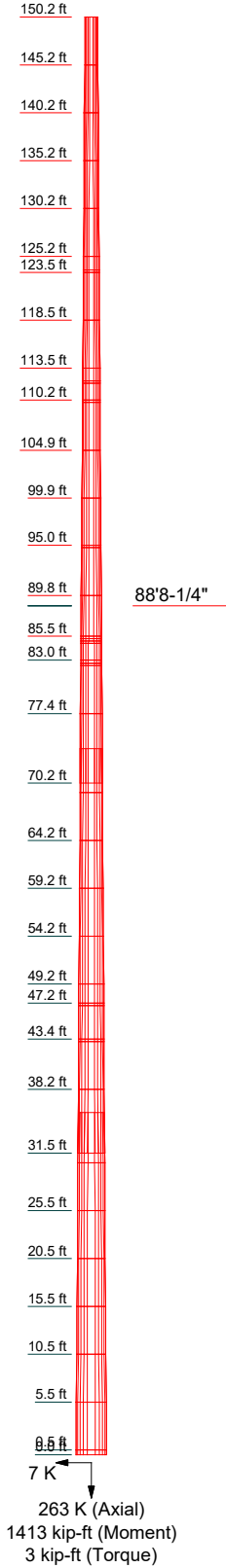
| Material Properties                     |     |     |
|---|-----|-----|
| Rebar Grade, $F_y$ :                    | 60  | ksi |
| Concrete Compressive Strength, $F'_c$ : | 3   | ksi |
| Dry Concrete Density, $\delta_c$ :      | 150 | pcf |

| Soil Properties                     |        |         |
|-------------------------------------|--------|---------|
| Total Soil Unit Weight, $\gamma$ :  | 124    | pcf     |
| Ultimate Gross Bearing, $Q_{ult}$ : | 30.000 | ksf     |
| Cohesion, $C_u$ :                   | 0.000  | ksf     |
| Friction Angle, $\phi$ :            | 42     | degrees |
| SPT Blow Count, $N_{blows}$ :       |        |         |
| Base Friction, $\mu$ :              | 0.4    |         |
| Neglected Depth, $N$ :              | 3.33   | ft      |
| Foundation Bearing on Rock?         | Yes    |         |
| Groundwater Depth, $gw$ :           | 2.7    | ft      |

<--Toggle between Gross and Net

**Guy Tensions and Tower Reactions**  
**TIA-222-H - 125 mph/50 mph 1.000 in Ice Exposure B**

**Maximum Values**  
**Anchor 'A'@20.5 ft Azimuth 0 deg Elev 0 ft**  
**Plane through centroid of tower**



**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
 FAX: (918) 587-4630

|   |                           |             |
|---|---------------------------|-------------|
| Job: <b>93496.032.01 - OLD SAYBROOK, CT (BU# 84128)</b> |                           |             |
| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No: E-6 |

# Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.



|                      |                  |
|----------------------|------------------|
| <b>BU#:</b>          | 841289           |
| <b>Site Name:</b>    | OLD SAYBROOK, CT |
| <b>Order Number:</b> | 586098, Rev. 0   |
| <b>Location:</b>     | Inner            |

TIA-222 Revision: 

|   |
|---|
| H |
|---|

| Design Reactions                         |        |      |
|--|--------|------|
| Shear, <b>S:</b>                         | 35.00  | kips |
| Uplift, <b>Ua:</b>                       | 149.00 | kips |
| Resultant Force, <b>Rf:</b>              | 153.06 | kips |
| Tower Height, <b>H:</b>                  | 150.00 | ft   |
| Guy Anchor Radius, <b>R:</b>             | 20.50  | ft   |
| Resultant Angle to Horizontal, <b>θ:</b> | 76.8   | deg  |

| Guy Anchor Properties                      |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b>     | 8    | ft              |
| Anchor Width, <b>Wa:</b>                   | 5    | ft              |
| Anchor Thickness, <b>Ta:</b>               | 2    | ft              |
| Anchor Length, <b>La:</b>                  | 37   | ft              |
| Concrete Volume, <b>Vc:</b>                | 13.7 | yd <sup>3</sup> |
| Toe Width, <b>toe:</b>                     | 0    | ft              |
| Guyed Anchor Top Rebar Size, <b>Sat:</b>   | 9    |                 |
| No. of Bars in Top of Block:               | 12   |                 |
| Guyed Anchor Front Rebar Size, <b>Saf:</b> | 9    |                 |
| No. of Bars in Front of Block:             | 3    |                 |
| Stirrup Size:                              | 4    |                 |
| Anchor Shaft Diameter, <b>ds:</b>          | 1.75 | in              |
| Anchor Shaft Quantity, <b>n:</b>           | 2    |                 |
| Anchor Shaft Area Override:                |      | in <sup>2</sup> |
| Shear Lag Factor, <b>u:</b>                | 1    |                 |

| Material Properties                         |       |     |
|---|-------|-----|
| Rebar Grade, <b>Fy:</b>                     | 60    | ksi |
| Concrete Strength, <b>F'c:</b>              | 4     | ksi |
| Wt. Avg. Concrete Density, <b>δx:</b>       | 0.088 | kcf |
| Clear Cover, <b>cc:</b>                     | 3     | in  |
| Anchor Shaft Grade, <b>Fy':</b>             | 50    | ksi |
| Anchor Shaft Ultimate Strength, <b>Fu':</b> | 65    | ksi |

| Design Checks                        |          |        |         |       |
|--------------------------------------|----------|--------|---------|-------|
|                                      | Capacity | Demand | Rating* | Check |
| Lateral Capacity (kips):             | 243.58   | 35.00  | 13.7%   | Pass  |
| Uplift Capacity (kips):              | 213.85   | 149.00 | 66.4%   | Pass  |
| Lateral Flexural Capacity (ft*kips): | 740.25   | 161.88 | 20.8%   | Pass  |
| Uplift Flexural Capacity (ft*kips):  | 981.25   | 689.13 | 66.9%   | Pass  |
| Anchor Shaft (kips):                 | 192.42   | 153.06 | 75.8%   | Pass  |

\*Rating per TIA-222-H Section 15.5

|                      |       |
|----------------------|-------|
| Anchor Shaft Rating: | 75.8% |
| Structural Rating:   | 66.9% |
| Soil Rating:         | 66.4% |

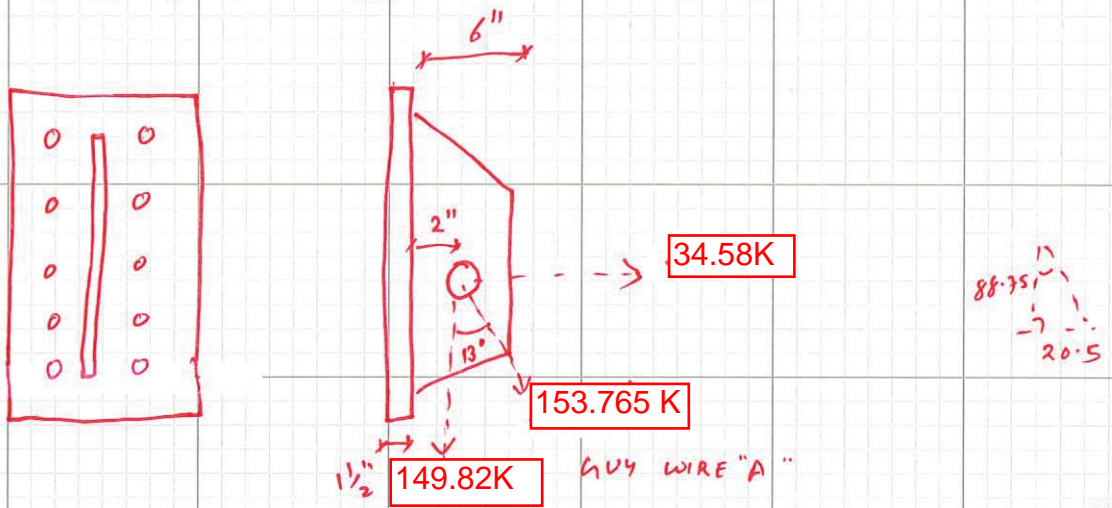
|                               |      |    |
|-------------------------------|------|----|
| Neglect Depth, <b>Neg:</b>    | 3.33 | ft |
| Groundwater Level, <b>gw:</b> | 2.7  | ft |

| Soil Properties: |        | No. of Soil Layers: |        |      |                   |              |
|------------------|--------|---------------------|--------|------|-------------------|--------------|
| Layer            | φ, deg | cu, ksf             | δ, pcf |      | Ultimate fs (ksf) | N (blows/ft) |
| 1                | 0      | 0.000               | 110    | 2.70 | 0.000             |              |
| 2                | 0      | 0.000               | 47.6   | 3.33 |                   |              |
| 3                | 31     | 0.000               | 47.6   | 4.00 |                   | 80           |
| 4                | 42     | 0.000               | 72.6   | 8.00 |                   | 100          |

\*key: φ = Internal Angle of Friction  
 cu = Cohesion / Undrained Shear Strength  
 δ = Buoyant Soil Unit Weight  
 d = Depth to Bottom of Layer  
 Ultimate fs = Geotechnical Report-provided skin friction / adhesion  
 N = SPT Blow Count



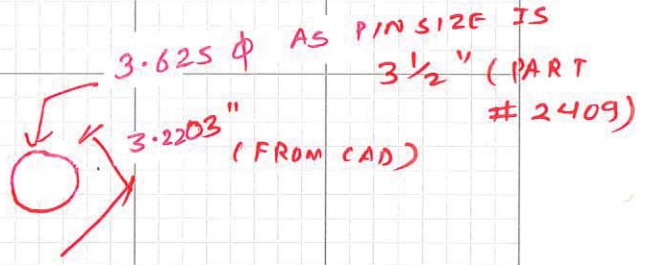
CHECK ONLY FOR 1 5/8 BS WIRE GOVERNING.



$$M = 198 \text{ k} \times 3.5 \text{ IN}$$

$$= 693 \text{ k-IN}$$

SHEAR ON BOLTS =  $V = 198 \text{ k}$   
 TENSION " " =  $T = 46 \text{ k}$



HOLE BEARING AND TEARING CHECK. (GUY WIRE CONNECTION)

$\phi R_n = \phi 1.2(L_c + d/4) t F_u$   
 (TEARING)

$$= 0.8 \times 1.2 \times \left( \left( 3.2203 - \frac{3.625}{2} \right) + \frac{3.5}{4} \right) \times 1.5 \times 58 \text{ kSI}$$

$$= 0.96 \times (1.4078 + 0.875) \times 1.5 \times 58 \text{ kSI}$$

$$= 190.66 \text{ k}$$

$\phi R_n = \phi 2.4 \times d \times t \times F_u$   
 (BEARING)

$$= 0.8 \times 2.4 \times 3.5 \times 1.5 \times 58$$

$$= 584.6 \text{ k}$$

4.9.8 (GUY ASSEMBLY LINK PLATE)

$$t = 1.5 \text{ IN}$$

$$b_{eff} = 2t + 0.625 \text{ IN}$$

$$= 2 \times 1.5 + 0.625$$

$$= 3.625 \text{ IN}$$

$$A_{st} = 2t(a + d/2)$$

$$= 2 * 1.5 * \left( (3.2203 - \frac{3.625}{2}) + \frac{3.5}{2} \right)$$

$$= 9.4734 \text{ in}^2$$

$$\phi R_{nk} = \phi 2t b_{eff} * F_u$$

$$= 0.75 * 2 * 1.5 * 3.625 * 58$$

$$= 473.06 \text{ k}$$

$$\phi R_{nk} = \phi 0.6 A_{st} F_u$$

$$= 0.75 * 0.6 * 9.4734 * 58$$

$$= 247.25 \text{ k}$$

$$\phi R_{nk} = \phi 1.8 d t F_y$$

$$= 0.9 * 1.8 * 3.5 * 1.5 * 58$$

$$= 453.23 \text{ k}$$

YIELDING OF GROSS AREA IS NOT CONSIDERED

$$\text{RATIO} = \frac{153.765}{190.6 \text{ k}} * \frac{1}{1.05 \text{ (Rev.H)}} = \underline{\underline{76.83}} \%$$

FOR GUY LUG  $\Rightarrow$  MIN. EDGE PER MAPPING\_5204147\_ IS 3.5 IN WHICH IS GREATER THAN 3.2203" USED IN ABOVE CAL. SO IT IS NOT GOVERNING.



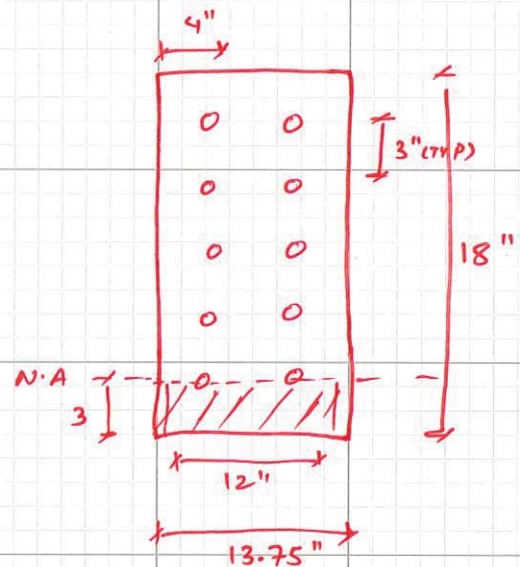
CHECK FOR TENSION / SHEAR.

CASE I: AISC 14<sup>TH</sup> EDITION (PH 7-4)

$$r_{nt} = \left( \frac{P_u e c}{I_x} \right) A_b$$

ACC. TO AISC P7-10, A TRIAL POSITION FOR N.A. CAN BE SELECTED. AT  $\frac{1}{6}$  OF TOTAL bracket depth.

$$= \frac{1}{6} * 18 = 3 \text{ IN}$$



EFF. WIDTH OF COMPRESSION BLOCK

$$b_{eff} = 8 * t_c < b_f$$

$$b_{eff} = 8 * 1.5 = 12 \text{ IN}$$

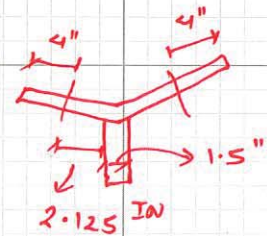
BRACKET THICKNESS CHECK,  $t = 1.5 \text{ IN}$  PROVIDED.

PRYING ACTION.

$$t_{min} = \sqrt{\frac{4 T b'}{\phi P F_u}}$$

$$= \sqrt{\frac{4 * 29.8 * 1.53}{0.9 * 3 * 58}}$$

$$= 1.079 < 1.5 \text{ IN PROVIDED.}$$

ok.

T = BOLT STRENGTH (TENSILE)

$$\frac{3}{4} \text{ " } \phi \text{ A325 N } \Rightarrow \text{ BLIND BOLTS} = 29.8 \text{ k}$$

PULL OUT CAPACITY OF MONOPOLE WALL ( $\frac{5}{16}$ "

$$= \phi r_n = \phi F_u (0.6 \pi d_w t)$$

$$= 0.67 * 80 * (0.6 * \pi * 1.5 * \frac{5}{16})$$

$$= 47.36 \text{ k}$$

$$b' = (b - d_b/2) \rightarrow \text{BOLT DIA.}$$

$$= (2.125 - 1.1875/2)$$

$$= 1.53$$

$$P_u = 187.5 \text{ k}$$

$e$  = distance of centroid of bolt group to center of load  
 $= 3.5 \text{ IN}$

$c$  = distance from U.A. to the most remote bolt in the group  
 $= 12 \text{ IN}$

CALCULATION OF  $I_x$

$$A_{bolt} = \frac{\pi}{4} * 0.75^2 = 0.44 \text{ IN}^2$$

$$(I_{c.g.})_{BOLT} = \frac{\pi}{64} * d^4 = 0.0155 \text{ IN}^4$$

$$(I_{c.g.})_{comp} = \frac{12 * 3^3}{12} = 27 \text{ IN}^4$$

$$I_{N.A.} = [27 + 12 * 3 * (\frac{3}{2})^2] + [8 * 0.0155 + 2 * 0.44 * (3^2 + 6^2 + 9^2 + 12^2)]$$

$$= 108 + 0.124 + 237.6$$

$$= 345.7 \text{ IN}^4$$

$$f_{ut} = \left( \frac{P_u * e * c}{I_x} \right) A_b$$

$$= \frac{179.30 \text{ k} * 3.5 * 12}{345.7 \text{ IN}^4} * \frac{\pi}{4} * 0.75^2$$

$$= 8.013 \text{ k}$$

tension → FROM GUY WIRE  
 $= 34.58 \text{ k}$   
 tension additional on each bolt =  $\frac{34.58}{10} = 3.458 \text{ k}$

$$\therefore f_{ut} = 8.013 + 3.458 = 11.471 \text{ k}$$

AISC 14<sup>th</sup> ED. PG. 7-22, 7-23

BLIND BOLT M20 TENSILE CAPACITY OF  $\frac{3}{4}$ "  $\phi$  A325N BOLTS)  
 $= 29.8 \text{ k}$

TENSION PULL OUT CAPACITY OF BOLT FROM POLE WALL

$$\phi A_n = \phi F_u (0.6 \pi d_w t)$$

$d_w$  = dia. of part in contact with inner surface (washer dia)

$$= 1.5 \text{ IN}$$

$$\phi A_n = 0.67 * 80 * (0.6 * \pi * 1.5 * \frac{5}{16})$$

$$= 47.36^k$$

Governing tensile capacity = 29.8^k

$$\frac{t_{ut}}{F_{nt}} = \frac{11.471^k}{29.8^k} = 38.49 \%$$

FOR SHEAR CAPACITY

POLE THICKNESS = 5/16" ,  $F_y = 65^k$  ,  $F_u = 80^k$  ← sleeve dia

$$\text{POLE BEARING CAPACITY} = \phi 2.4 * d_{hole} * t * F_u$$

$$= 0.8 * 2.4 * 1.14173 * \frac{5}{16} * 80$$

$$= 54.8^k$$

BLIND BOLT SHEAR CAPACITY (REV. H) = 37^k

GOVERNING CAPACITY = 37^k

$$\text{SHEAR LOAD ON EACH BOLT} = \frac{149.82^k}{10} = 14.82^k$$

AISC 14th ED. PG. 16.1-405

$$\left[ \frac{t_t}{\phi F_{nt}} \right] + \left[ \frac{t_v}{\phi F_{nv}} \right] \leq 1.3$$

$$\Rightarrow \left[ \frac{11.471}{29.8} \right] + \left[ \frac{14.82}{37} \right] \leq 1.3$$

$$\Rightarrow 0.384 + 0.40 \leq 1.3$$

$$\Rightarrow 0.784 \leq 1.3$$

ok.

$$\text{RATIO} = \frac{0.784}{1.3} = 60.30 \%$$

VERTICAL WELD CHECK: GUY LUG TO BRACKET.

FROM TABLE 8-4 (ANGLE 15°)

$$e_y = a l$$

$$a = \frac{2}{15} = 0.133 \approx 0.15$$

$$k = 0$$

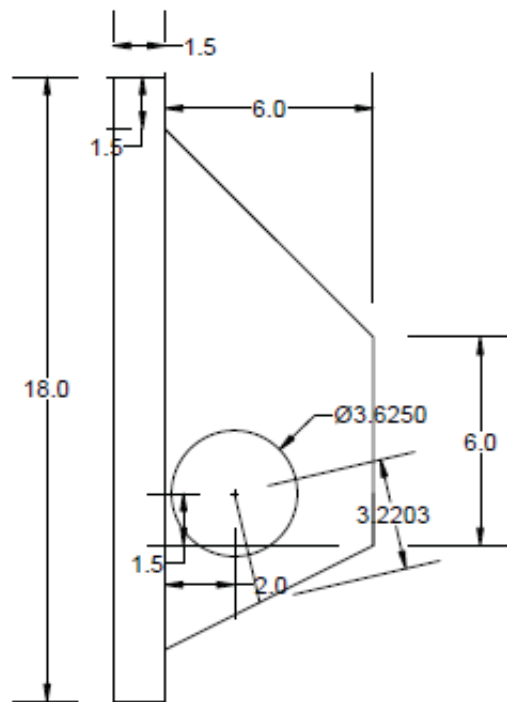
FROM TABLE  $C = 3.68$

$$\phi R_n = \phi C C_1 D l$$

$$= 0.75 * 3.68 * 1 * 12 * 15$$

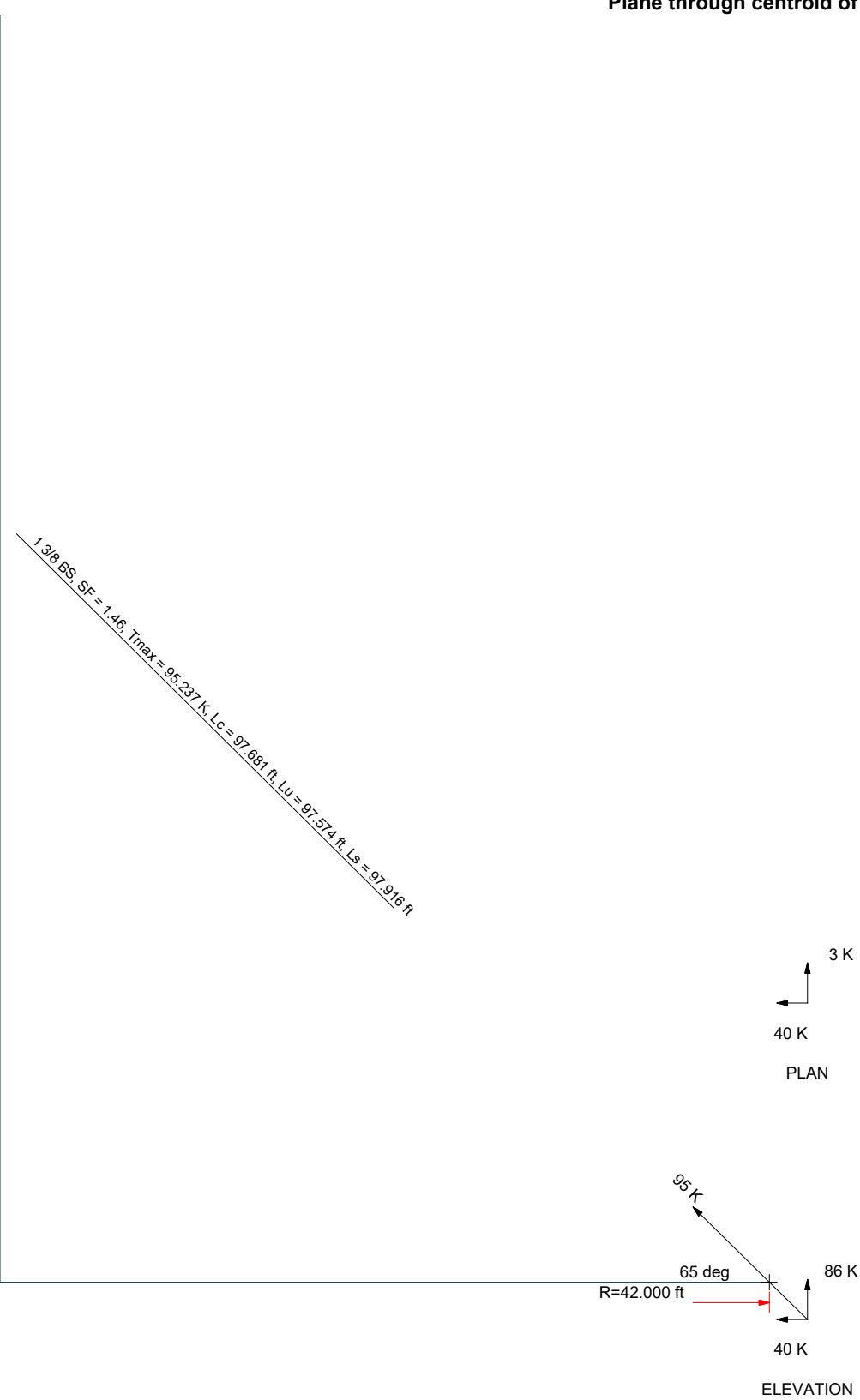
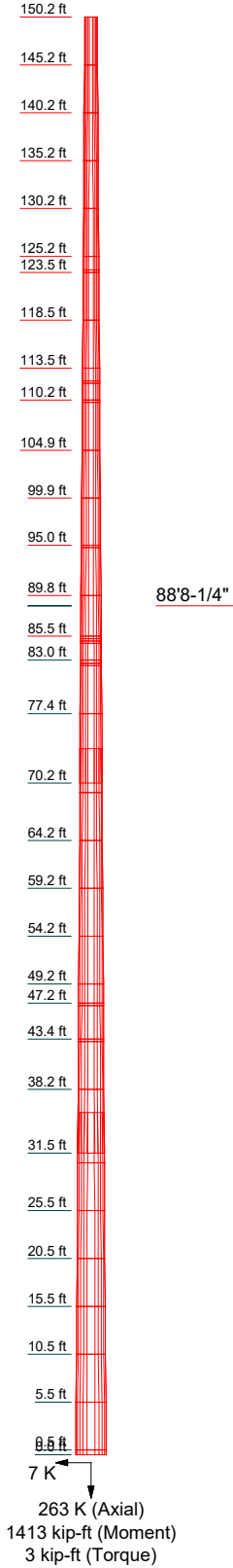
$$= 496.8 \text{ k}$$

$$\text{RATING} = \frac{153.765}{496.8 \text{ k}} = 30.95 \%$$



**Guy Tensions and Tower Reactions**  
**TIA-222-H - 125 mph/50 mph 1.000 in Ice Exposure B**

**Maximum Values**  
**Anchor 'C'@42 ft Azimuth 211 deg Elev 0 ft**  
**Plane through centroid of tower**



**B+T Group**  
 1717 S. Boulder, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
 FAX: (918) 587-4630

|   |                           |             |
|---|---------------------------|-------------|
| Job: <b>93496.032.01 - OLD SAYBROOK, CT (BU# 84128)</b> |                           |             |
| Project:  |                           |             |
| Client: Crown Castle                                    | Drawn by: Nithish Acharya | App'd:      |
| Code: TIA-222-H   | Date: 09/08/21            | Scale: NTS  |
| Path:   |                           | Dwg No: E-6 |

# Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.



|                      |                  |
|----------------------|------------------|
| <b>BU#:</b>          | 841289           |
| <b>Site Name:</b>    | OLD SAYBROOK, CT |
| <b>Order Number:</b> | 586098, Rev. 0   |
| <b>Location:</b>     | Outer            |

TIA-222 Revision: 

|   |
|---|
| H |
|---|

| Design Reactions                         |        |      |
|--|--------|------|
| Shear, <b>S:</b>                         | 40.00  | kips |
| Uplift, <b>Ua:</b>                       | 86.00  | kips |
| Resultant Force, <b>Rf:</b>              | 94.85  | kips |
| Tower Height, <b>H:</b>                  | 150.00 | ft   |
| Guy Anchor Radius, <b>R:</b>             | 42.00  | ft   |
| Resultant Angle to Horizontal, <b>θ:</b> | 65.1   | deg  |

| Guy Anchor Properties                      |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b>     | 8    | ft              |
| Anchor Width, <b>Wa:</b>                   | 5    | ft              |
| Anchor Thickness, <b>Ta:</b>               | 2    | ft              |
| Anchor Length, <b>La:</b>                  | 30   | ft              |
| Concrete Volume, <b>Vc:</b>                | 11.1 | yd <sup>3</sup> |
| Toe Width, <b>toe:</b>                     | 0    | ft              |
| Guyed Anchor Top Rebar Size, <b>Sat:</b>   | 9    |                 |
| No. of Bars in Top of Block:               | 12   |                 |
| Guyed Anchor Front Rebar Size, <b>Saf:</b> | 9    |                 |
| No. of Bars in Front of Block:             | 3    |                 |
| Stirrup Size:                              | 4    |                 |
| Anchor Shaft Diameter, <b>ds:</b>          | 1.75 | in              |
| Anchor Shaft Quantity, <b>n:</b>           | 2    |                 |
| Anchor Shaft Area Override:                |      | in <sup>2</sup> |
| Shear Lag Factor, <b>u:</b>                | 1    |                 |

| Material Properties                         |       |     |
|---|-------|-----|
| Rebar Grade, <b>Fy:</b>                     | 60    | ksi |
| Concrete Strength, <b>F'c:</b>              | 4     | ksi |
| Wt. Avg. Concrete Density, <b>δx:</b>       | 0.088 | kcf |
| Clear Cover, <b>cc:</b>                     | 3     | in  |
| Anchor Shaft Grade, <b>Fy':</b>             | 50    | ksi |
| Anchor Shaft Ultimate Strength, <b>Fu':</b> | 65    | ksi |

| Design Checks                               |          |        |         |       |
|---|----------|--------|---------|-------|
|   | Capacity | Demand | Rating* | Check |
| <i>Lateral Capacity (kips):</i>             | 197.85   | 40.00  | 19.3%   | Pass  |
| <i>Uplift Capacity (kips):</i>              | 175.93   | 86.00  | 46.6%   | Pass  |
| <i>Lateral Flexural Capacity (ft*kips):</i> | 740.25   | 150.00 | 19.3%   | Pass  |
| <i>Uplift Flexural Capacity (ft*kips):</i>  | 981.25   | 322.50 | 31.3%   | Pass  |
| <i>Anchor Shaft (kips):</i>                 | 192.42   | 94.85  | 46.9%   | Pass  |

\*Rating per TIA-222-H Section 15.5

|                      |       |
|----------------------|-------|
| Anchor Shaft Rating: | 46.9% |
| Structural Rating:   | 31.3% |
| Soil Rating:         | 46.6% |

|                               |      |    |
|-------------------------------|------|----|
| Neglect Depth, <b>Neg:</b>    | 3.33 | ft |
| Groundwater Level, <b>gw:</b> | 2.7  | ft |

| Soil Properties: |        | No. of Soil Layers: |        |      |                   |              |
|------------------|--------|---------------------|--------|------|-------------------|--------------|
| Layer            | φ, deg | cu, ksf             | δ, pcf |      | Ultimate fs (ksf) | N (blows/ft) |
| 1                | 0      | 0.000               | 110    | 2.70 | 0.000             |              |
| 2                | 0      | 0.000               | 47.6   | 3.33 |                   |              |
| 3                | 31     | 0.000               | 47.6   | 4.00 |                   | 80           |
| 4                | 42     | 0.000               | 72.6   | 8.00 |                   | 100          |

\*key: φ = Internal Angle of Friction  
 cu = Cohesion / Undrained Shear Strength  
 δ = Buoyant Soil Unit Weight  
 d = Depth to Bottom of Layer  
 Ultimate fs = Geotechnical Report-provided skin friction / adhesion  
 N = SPT Blow Count

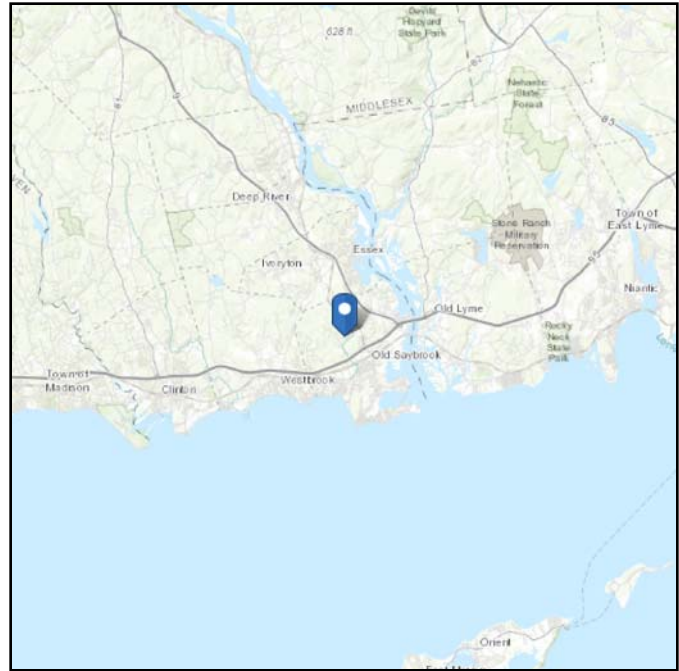
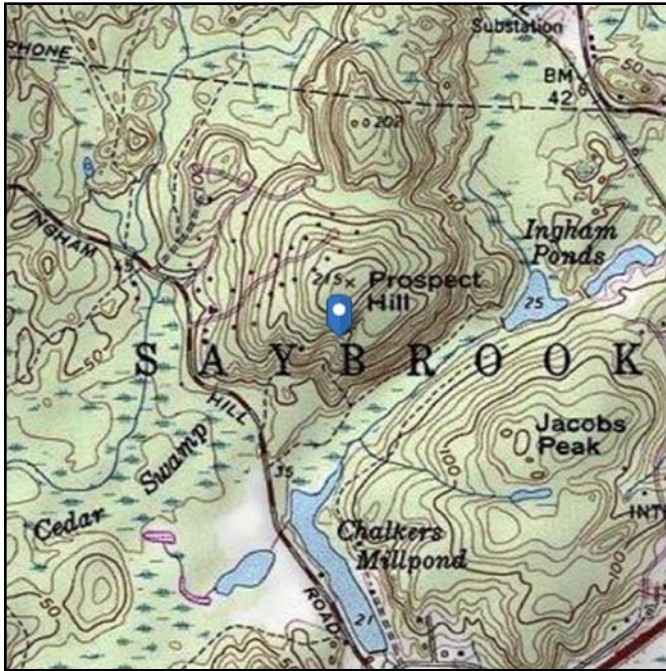


# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see Section 11.4.3)

**Elevation:** 133.08 ft (NAVD 88)  
**Latitude:** 41.309875  
**Longitude:** -72.397536



## Wind

### Results:

|              |          |
|--------------|----------|
| Wind Speed:  | 125 Vmph |
| 10-year MRI  | 76 Vmph  |
| 25-year MRI  | 85 Vmph  |
| 50-year MRI  | 96 Vmph  |
| 100-year MRI | 102 Vmph |

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Wed Sep 08 2021

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

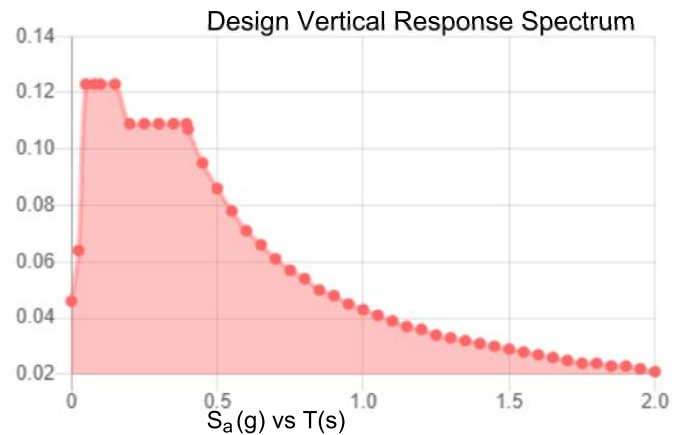
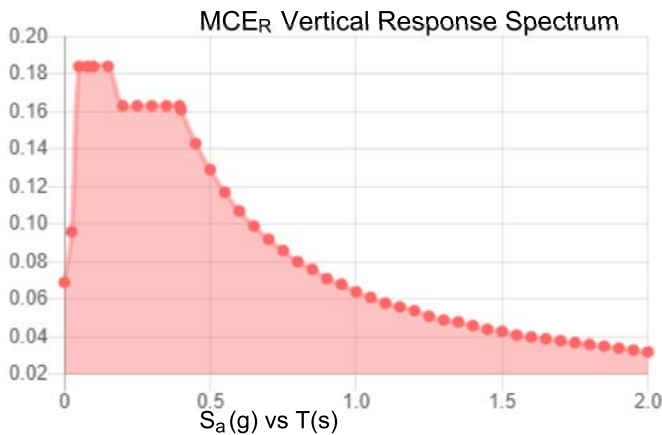
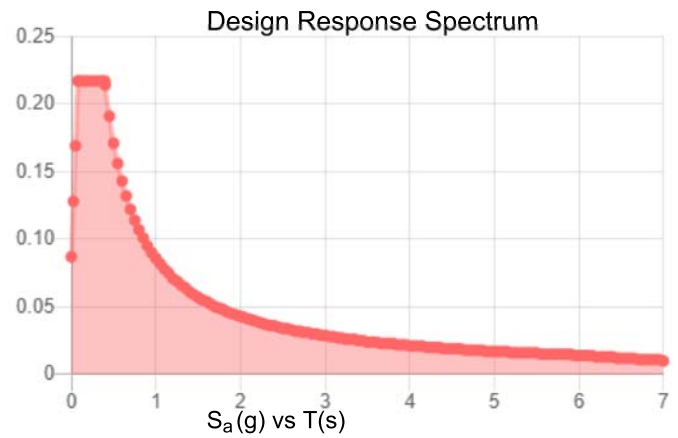
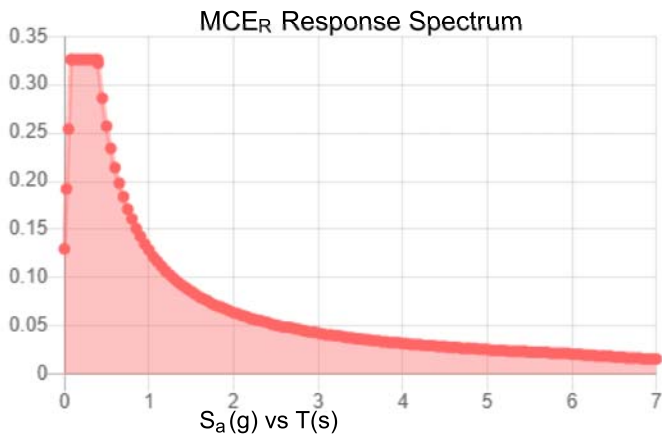
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

|            |       |                    |       |
|------------|-------|--------------------|-------|
| $S_s$ :    | 0.204 | $S_{D1}$ :         | 0.086 |
| $S_1$ :    | 0.054 | $T_L$ :            | 6     |
| $F_a$ :    | 1.6   | PGA :              | 0.114 |
| $F_v$ :    | 2.4   | PGA <sub>M</sub> : | 0.179 |
| $S_{MS}$ : | 0.326 | $F_{PGA}$ :        | 1.573 |
| $S_{M1}$ : | 0.129 | $I_e$ :            | 1     |
| $S_{DS}$ : | 0.217 | $C_v$ :            | 0.707 |

**Seismic Design Category** B



**Data Accessed:** Wed Sep 08 2021  
**Date Source:** USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

## Ice

---

**Results:**

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Wed Sep 08 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

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# Exhibit E

## **Mount Analysis**



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

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## Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10100066  
Maser Consulting Connecticut Project #: 21777996A

September 7, 2021

### Site Information

Site ID: 468078-VZW / OLD SAYBROOK CT  
Site Name: OLD SAYBROOK CT  
Carrier Name: Verizon Wireless  
Address: 170 Ingham Hill Rd.  
Old Saybrook, Connecticut 06475  
Middlesex County  
Latitude: 41.309818°  
Longitude: -72.396749°

### Structure Information

Tower Type: 150-Ft Monopole  
Mount Type: 13.67-Ft Platform

FUZE ID # 16272025

### Analysis Results

Platform: 75.5% Pass

### \*\*\*Contractor PMI Requirements:

**Included at the end of this MA report**

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

**Contractor - Please Review Specific Site PMI Requirements Upon Award**

**Requirements also Noted on Mount Modification Drawings**

**Requirements may also be Noted on A & E drawings**

**For additional questions and support, please reach out to:**

**[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)**

Report Prepared By: Nathan LaPorte



Digitally signed by Derek Hartzell  
Date: 2021.09.07 07:56:15-07'00'

**Executive Summary:**

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

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

**Sources of Information:**

| Document Type                            | Remarks  |
|--|--|
| <i>Radio Frequency Data Sheet (RFDS)</i> | <i>Verizon RFDS, Site ID: 324615, dated July 21, 2021</i>                |
| <i>Mount Mapping Report</i>              | <i>Hudson Design Group, LLC., Site ID: 468078, dated August 17, 2021</i> |
| <i>Previous Mount Analysis</i>           | <i>Maser Consulting Project #: 21777996A, dated August 31, 2021</i>      |
| <i>Mount Modification Drawings</i>       | <i>Maser Consulting Project #: 21777996A, dated September 7, 2021</i>    |

**Analysis Criteria:**

|                         |   |
|-------------------------|---|
| Codes and Standards:    | ANSI/TIA-222-H  |
| Wind Parameters:        | Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 125 mph<br>Ice Wind Speed (3-sec. Gust): 50 mph<br>Design Ice Thickness: 1.00 in<br>Risk Category: II<br>Exposure Category: B<br>Topographic Category: 1<br>Topographic Feature Considered: N/A<br>Topographic Method: N/A<br>Ground Elevation Factor, $K_e$ : 0.991 |
| Seismic Parameters:     | $S_s$ : 0.204<br>$S_1$ : 0.054  |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): 30 mph<br>Maintenance Live Load, $L_v$ : 250 lbs.<br>Maintenance Live Load, $L_m$ : 500 lbs.  |
| Analysis Software:      | RISA-3D (V17)   |

**Final Loading Configuration:**

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

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model            | Status   |
|----------------------|--------------------------|----------|--------------|------------------|----------|
| 131.00               | 133.00                   | 3        | Antel        | BXA-80080/4CF    | Retained |
|                      |                          | 4        | CommScope    | JAHH-65B-R3B     | Added    |
|                      |                          | 2        | CommScope    | JAHH-45B-R3B     |          |
|                      |                          | 3        | Samsung      | MT6407-77A       |          |
|                      |                          | 3        | Samsung      | RF4439d-25A      |          |
|                      |                          | 3        | Samsung      | RF4440d-13A      |          |
|                      |                          | 3        | CommScope    | CBC78T-DS-43-2X  |          |
|                      |                          | 1        | Raycap       | RVZDC-6627-PF-48 |          |

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 |
|---------------------|---------------|-----------|
| Standoff Horizontal | 31.9 %        | Pass      |
| Standoff Plate      | 33.2 %        | Pass      |
| Face Horizontal     | 10.6+ %       | Pass      |
| Cross Bracing       | 75.5 %        | Pass      |
| Grating Support     | 41.9 %        | Pass      |
| Antenna Pipe        | 53.2 %        | Pass      |
| Support Rail        | 21.5 %        | Pass      |
| Support Rail Corner | 40.1 %        | Pass      |
| Kicker              | 14.0 %        | Pass      |
| Mount Connection    | 37.9 %        | Pass      |

|   |              |
|---|--------------|
| <b>Structure Rating – (Controlling Utilization of all Components)</b> | <b>75.5%</b> |
|---|--------------|

**Recommendation:**

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

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

**Attachments:**

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









**Observed Safety and Structural Issues During the Mount Mapping**

| Issue # | Description of Issue | Photo # |
|---------|----------------------|---------|
| 1       |                      |         |
| 2       |                      |         |
| 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. |         | Photo #              |
|---|---------|----------------------|
| Description of Obstruction:   |         |                      |
| 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 #

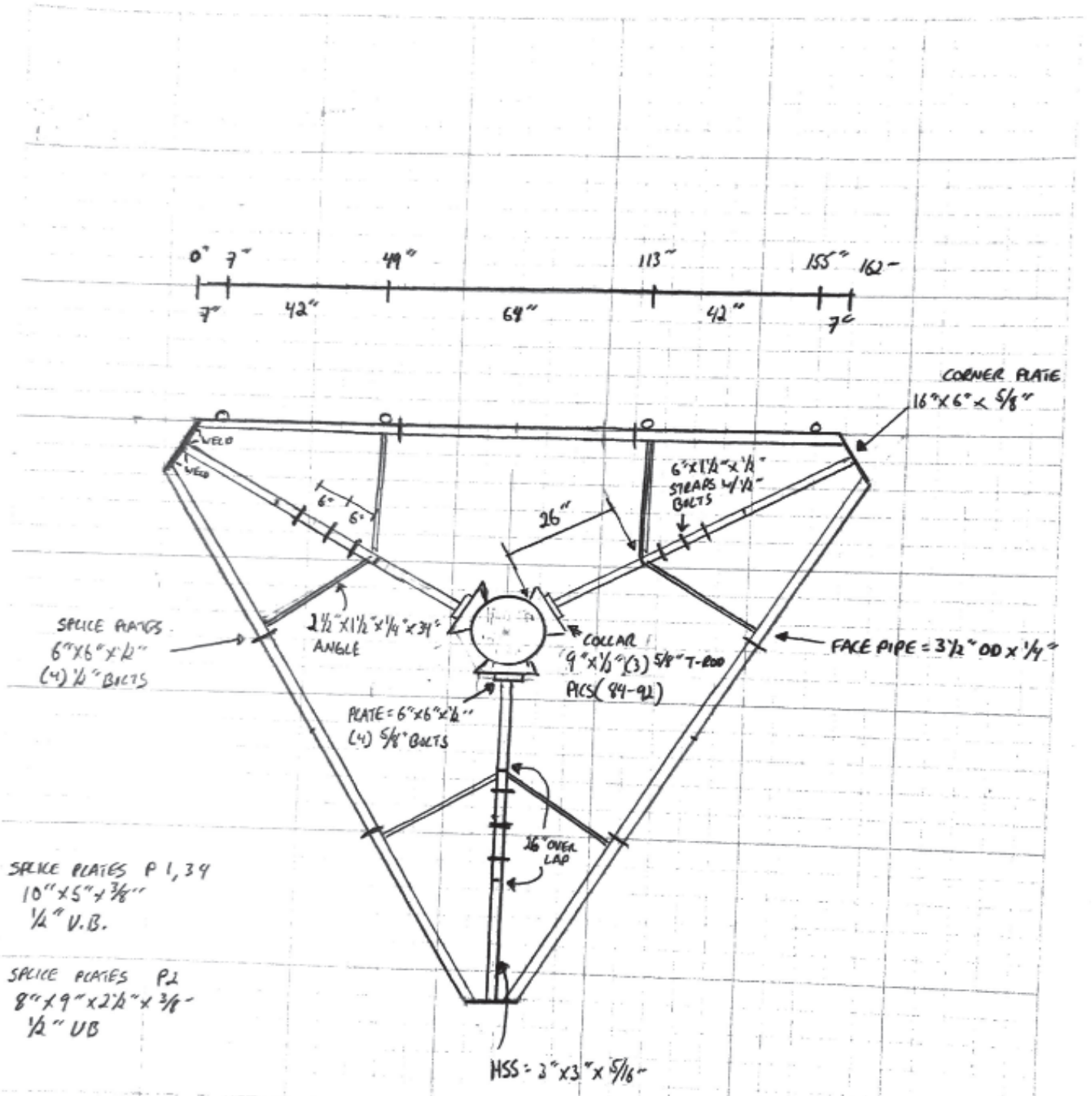
|                     |                          |                        |           |
|---------------------|--------------------------|------------------------|-----------|
| Tower Owner:        | AT&T                     | Mapping Date:          | 8/17/2021 |
| Site Name:          | OLD SAYBROOK CT          | Tower Type:            | Monopole  |
| Site Number or ID:  | 468078                   | Tower Height (Ft.):    | 150       |
| Mapping Contractor: | HUDSONDESIGNGROUPLLC.COM | Mount Elevation (Ft.): | 131       |

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.

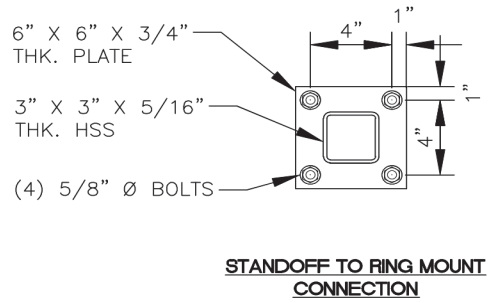
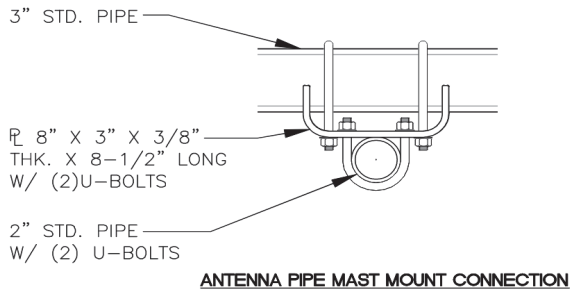
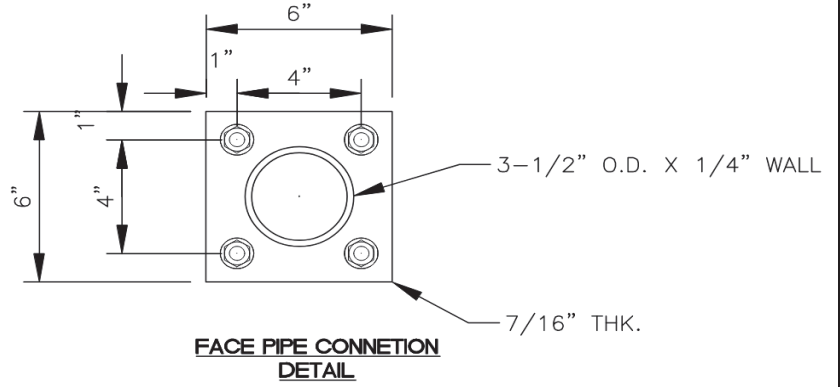
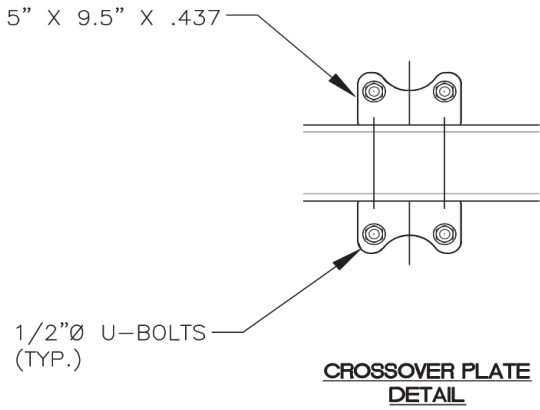
Please Insert Sketches of the Antenna Mount

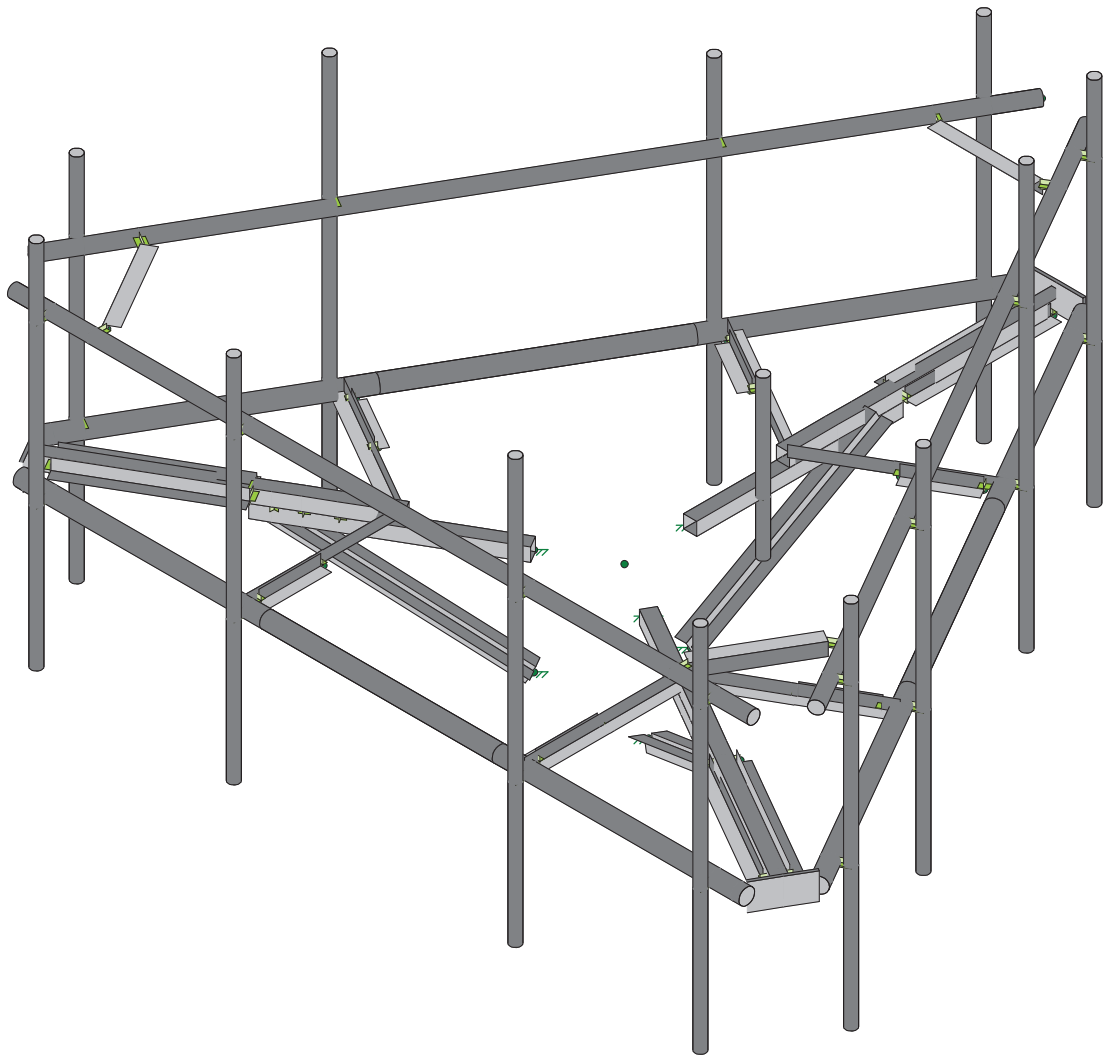
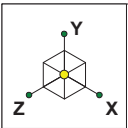
DATE: 08172021  
 Project Name: COLLIERS  
 Project No.: OLD SAYBROOK  
 Design By: [Signature] Chk'd By: \_\_\_\_\_

Page 2 of 2



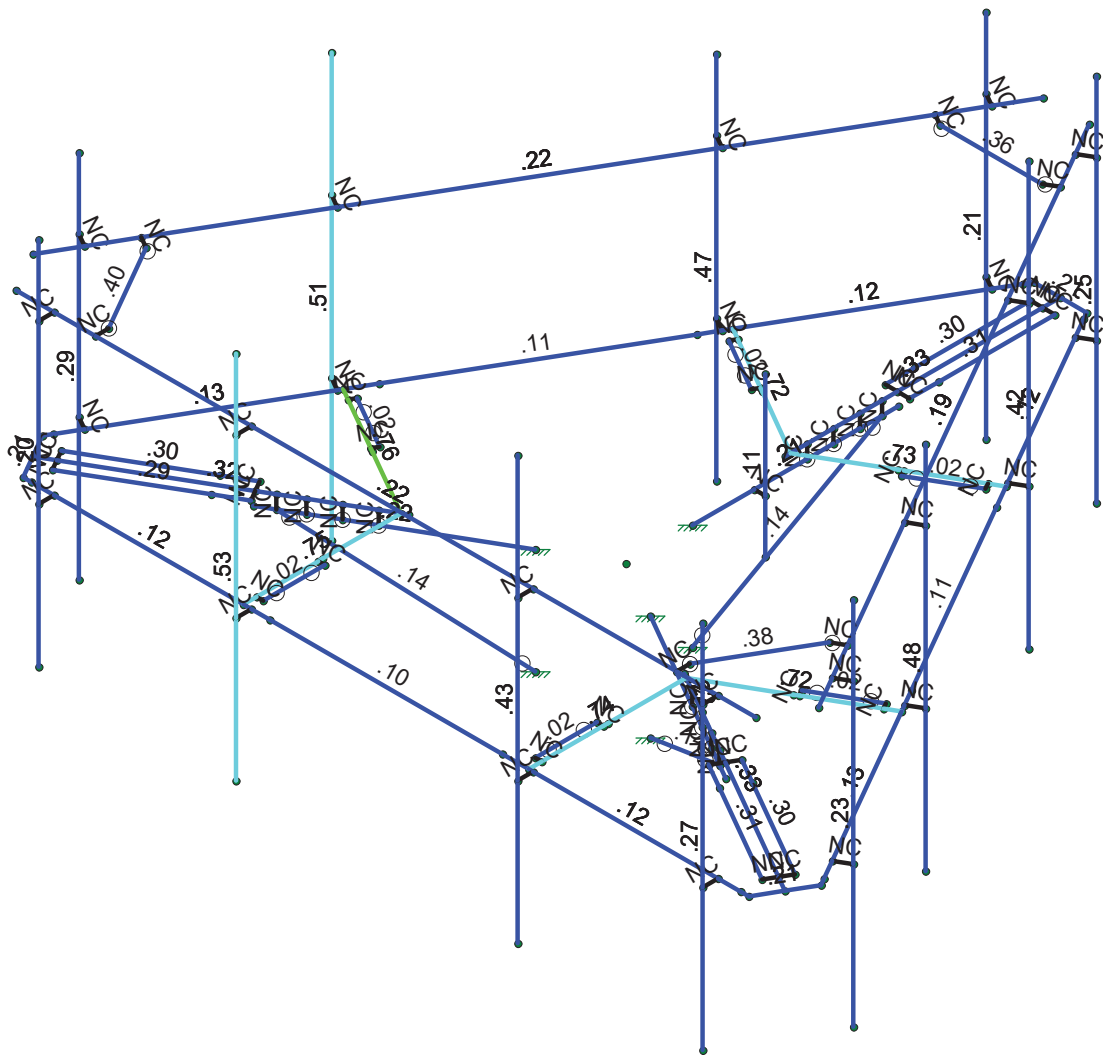
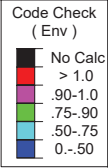
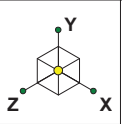
Please Insert Sketches of the Antenna Mount, cont'd





Envelope Only Solution

|                  |           |                              |
|------------------|-----------|------------------------------|
| Maser Consulting | Mount Fix | SK - 1                       |
| NL               |           | Sept 7, 2021 at 6:41 AM      |
| 21777996A        |           | MOD - 468078-VZW_MT_LO_H.r3d |



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

|                  |           |                              |
|------------------|-----------|------------------------------|
| Maser Consulting | Mount Fix | SK - 2                       |
| NL               |           | Sept 7, 2021 at 6:42 AM      |
| 21777996A        |           | MOD - 468078-VZW_MT_LO_H.r3d |





**Basic Load Cases**

|    | BLC Description        | Category | X Grav... | Y Grav... | Z Grav... | Joint | Point | Distrib... | Area(M... | Surfac... |
|----|------------------------|----------|-----------|-----------|-----------|-------|-------|------------|-----------|-----------|
| 1  | Antenna D              | None     |           |           |           |       | 102   |            |           |           |
| 2  | Antenna Di             | None     |           |           |           |       | 102   |            |           |           |
| 3  | Antenna Wo (0 Deg)     | None     |           |           |           |       | 102   |            |           |           |
| 4  | Antenna Wo (30 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 5  | Antenna Wo (60 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 6  | Antenna Wo (90 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 7  | Antenna Wo (120 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 8  | Antenna Wo (150 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 9  | Antenna Wo (180 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 10 | Antenna Wo (210 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 11 | Antenna Wo (240 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 12 | Antenna Wo (270 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 13 | Antenna Wo (300 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 14 | Antenna Wo (330 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 15 | Antenna Wi (0 Deg)     | None     |           |           |           |       | 102   |            |           |           |
| 16 | Antenna Wi (30 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 17 | Antenna Wi (60 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 18 | Antenna Wi (90 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 19 | Antenna Wi (120 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 20 | Antenna Wi (150 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 21 | Antenna Wi (180 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 22 | Antenna Wi (210 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 23 | Antenna Wi (240 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 24 | Antenna Wi (270 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 25 | Antenna Wi (300 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 26 | Antenna Wi (330 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 27 | Antenna Wm (0 Deg)     | None     |           |           |           |       | 102   |            |           |           |
| 28 | Antenna Wm (30 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 29 | Antenna Wm (60 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 30 | Antenna Wm (90 Deg)    | None     |           |           |           |       | 102   |            |           |           |
| 31 | Antenna Wm (120 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 32 | Antenna Wm (150 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 33 | Antenna Wm (180 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 34 | Antenna Wm (210 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 35 | Antenna Wm (240 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 36 | Antenna Wm (270 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 37 | Antenna Wm (300 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 38 | Antenna Wm (330 Deg)   | None     |           |           |           |       | 102   |            |           |           |
| 39 | Structure D            | None     |           | -1        |           |       |       |            | 15        |           |
| 40 | Structure Di           | None     |           |           |           |       |       | 58         | 15        |           |
| 41 | Structure Wo (0 Deg)   | None     |           |           |           |       |       | 116        |           |           |
| 42 | Structure Wo (30 Deg)  | None     |           |           |           |       |       | 116        |           |           |
| 43 | Structure Wo (60 Deg)  | None     |           |           |           |       |       | 116        |           |           |
| 44 | Structure Wo (90 Deg)  | None     |           |           |           |       |       | 116        |           |           |
| 45 | Structure Wo (120 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 46 | Structure Wo (150 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 47 | Structure Wo (180 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 48 | Structure Wo (210 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 49 | Structure Wo (240 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 50 | Structure Wo (270 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 51 | Structure Wo (300 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 52 | Structure Wo (330 Deg) | None     |           |           |           |       |       | 116        |           |           |
| 53 | Structure Wi (0 Deg)   | None     |           |           |           |       |       | 116        |           |           |
| 54 | Structure Wi (30 Deg)  | None     |           |           |           |       |       | 116        |           |           |
| 55 | Structure Wi (60 Deg)  | None     |           |           |           |       |       | 116        |           |           |
| 56 | Structure Wi (90 Deg)  | None     |           |           |           |       |       | 116        |           |           |

**Basic Load Cases (Continued)**

|    | BLC Description             | Category | X Grav... | Y Grav... | Z Grav... | Joint | Point | Distrib... | Area(M...Surfac... |
|----|-----------------------------|----------|-----------|-----------|-----------|-------|-------|------------|--------------------|
| 57 | Structure Wi (120 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 58 | Structure Wi (150 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 59 | Structure Wi (180 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 60 | Structure Wi (210 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 61 | Structure Wi (240 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 62 | Structure Wi (270 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 63 | Structure Wi (300 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 64 | Structure Wi (330 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 65 | Structure Wm (0 Deg)        | None     |           |           |           |       |       | 116        |                    |
| 66 | Structure Wm (30 Deg)       | None     |           |           |           |       |       | 116        |                    |
| 67 | Structure Wm (60 Deg)       | None     |           |           |           |       |       | 116        |                    |
| 68 | Structure Wm (90 Deg)       | None     |           |           |           |       |       | 116        |                    |
| 69 | Structure Wm (120 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 70 | Structure Wm (150 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 71 | Structure Wm (180 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 72 | Structure Wm (210 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 73 | Structure Wm (240 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 74 | Structure Wm (270 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 75 | Structure Wm (300 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 76 | Structure Wm (330 Deg)      | None     |           |           |           |       |       | 116        |                    |
| 77 | Lm1                         | None     |           |           |           |       | 1     |            |                    |
| 78 | Lm2                         | None     |           |           |           |       | 1     |            |                    |
| 79 | Lv1                         | None     |           |           |           |       | 1     |            |                    |
| 80 | Lv2                         | None     |           |           |           |       | 1     |            |                    |
| 81 | BLC 39 Transient Area Loads | None     |           |           |           |       |       | 196        |                    |
| 82 | BLC 40 Transient Area Loads | None     |           |           |           |       |       | 196        |                    |

**Load Combinations**

|    | Description                 | Solve P... | S... | B... | Fa... | B... | Fa... | BLC 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 Deg)         | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 4    | 1     | 42   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 3  | 1.2D+1.0Wo (60 Deg)         | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 5    | 1     | 43   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 4  | 1.2D+1.0Wo (90 Deg)         | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 6    | 1     | 44   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 5  | 1.2D+1.0Wo (120 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 7    | 1     | 45   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 6  | 1.2D+1.0Wo (150 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 8    | 1     | 46   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 7  | 1.2D+1.0Wo (180 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 9    | 1     | 47   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 8  | 1.2D+1.0Wo (210 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 10   | 1     | 48   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 9  | 1.2D+1.0Wo (240 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 11   | 1     | 49   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 10 | 1.2D+1.0Wo (270 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 12   | 1     | 50   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 11 | 1.2D+1.0Wo (300 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 13   | 1     | 51   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 12 | 1.2D+1.0Wo (330 Deg)        | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 14   | 1     | 52   | 1     |      |       |      |       |      |       |      |       |      |       |  |
| 13 | 1.2D + 1.0Di + 1.0Wi (0 ... | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 15   | 1     | 53   | 1     |      |       |      |       |      |       |  |
| 14 | 1.2D + 1.0Di + 1.0Wi (3...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 16   | 1     | 54   | 1     |      |       |      |       |      |       |  |
| 15 | 1.2D + 1.0Di + 1.0Wi (6...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 17   | 1     | 55   | 1     |      |       |      |       |      |       |  |
| 16 | 1.2D + 1.0Di + 1.0Wi (9...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 18   | 1     | 56   | 1     |      |       |      |       |      |       |  |
| 17 | 1.2D + 1.0Di + 1.0Wi (1...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 19   | 1     | 57   | 1     |      |       |      |       |      |       |  |
| 18 | 1.2D + 1.0Di + 1.0Wi (1...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 20   | 1     | 58   | 1     |      |       |      |       |      |       |  |
| 19 | 1.2D + 1.0Di + 1.0Wi (1...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 21   | 1     | 59   | 1     |      |       |      |       |      |       |  |
| 20 | 1.2D + 1.0Di + 1.0Wi (2...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 22   | 1     | 60   | 1     |      |       |      |       |      |       |  |
| 21 | 1.2D + 1.0Di + 1.0Wi (2...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 23   | 1     | 61   | 1     |      |       |      |       |      |       |  |
| 22 | 1.2D + 1.0Di + 1.0Wi (2...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 24   | 1     | 62   | 1     |      |       |      |       |      |       |  |
| 23 | 1.2D + 1.0Di + 1.0Wi (3...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 25   | 1     | 63   | 1     |      |       |      |       |      |       |  |
| 24 | 1.2D + 1.0Di + 1.0Wi (3...  | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 2    | 1     | 40   | 1     | 26   | 1     | 64   | 1     |      |       |      |       |      |       |  |
| 25 | 1.2D + 1.5Lm1 + 1.0W...     | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 27   | 1     | 65   | 1     |      |       |      |       |      |       |      |       |  |
| 26 | 1.2D + 1.5Lm1 + 1.0W...     | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 28   | 1     | 66   | 1     |      |       |      |       |      |       |      |       |  |

**Load Combinations (Continued)**

|    | Description               | Solve P... | S... | B... | Fa... | B... | Fa... | BLC Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... | B... | Fa... |  |
|----|---------------------------|------------|------|------|-------|------|-------|-----------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|
| 27 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 29   | 1     | 67   | 1     |      |       |      |       |      |       |  |
| 28 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 30   | 1     | 68   | 1     |      |       |      |       |      |       |  |
| 29 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 31   | 1     | 69   | 1     |      |       |      |       |      |       |  |
| 30 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 32   | 1     | 70   | 1     |      |       |      |       |      |       |  |
| 31 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 33   | 1     | 71   | 1     |      |       |      |       |      |       |  |
| 32 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 34   | 1     | 72   | 1     |      |       |      |       |      |       |  |
| 33 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 35   | 1     | 73   | 1     |      |       |      |       |      |       |  |
| 34 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 36   | 1     | 74   | 1     |      |       |      |       |      |       |  |
| 35 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 37   | 1     | 75   | 1     |      |       |      |       |      |       |  |
| 36 | 1.2D + 1.5Lm1 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 77   | 1.5   | 38   | 1     | 76   | 1     |      |       |      |       |      |       |  |
| 37 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 27   | 1     | 65   | 1     |      |       |      |       |      |       |  |
| 38 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 28   | 1     | 66   | 1     |      |       |      |       |      |       |  |
| 39 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 29   | 1     | 67   | 1     |      |       |      |       |      |       |  |
| 40 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 30   | 1     | 68   | 1     |      |       |      |       |      |       |  |
| 41 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 31   | 1     | 69   | 1     |      |       |      |       |      |       |  |
| 42 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 32   | 1     | 70   | 1     |      |       |      |       |      |       |  |
| 43 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 33   | 1     | 71   | 1     |      |       |      |       |      |       |  |
| 44 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 34   | 1     | 72   | 1     |      |       |      |       |      |       |  |
| 45 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 35   | 1     | 73   | 1     |      |       |      |       |      |       |  |
| 46 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 36   | 1     | 74   | 1     |      |       |      |       |      |       |  |
| 47 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 37   | 1     | 75   | 1     |      |       |      |       |      |       |  |
| 48 | 1.2D + 1.5Lm2 + 1.0W...   | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 78   | 1.5   | 38   | 1     | 76   | 1     |      |       |      |       |      |       |  |
| 49 | 1.2D + 1.5Lv1             | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 79   | 1.5   |      |       |      |       |      |       |      |       |      |       |  |
| 50 | 1.2D + 1.5Lv2             | Yes        | Y    |      | 1     | 1.2  | 39    | 1.2       | 80   | 1.5   |      |       |      |       |      |       |      |       |      |       |  |
| 51 | 1.4D                      | Yes        | Y    |      | 1     | 1.4  | 39    | 1.4       |      |       |      |       |      |       |      |       |      |       |      |       |  |
| 52 | Seismic Mass              |            | Y    |      | 1     | 1    | 39    | 1         |      |       |      |       |      |       |      |       |      |       |      |       |  |
| 53 | 1.2D + 1.0Ev + 1.0Eh (0.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   |       | SY   | 1     | SZ   | -1    |      |       |      |       |      |       |  |
| 54 | 1.2D + 1.0Ev + 1.0Eh (3.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | .5    | SY   | 1     | SZ   | -.866 |      |       |      |       |      |       |  |
| 55 | 1.2D + 1.0Ev + 1.0Eh (6.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | .866  | SY   | 1     | SZ   | -.5   |      |       |      |       |      |       |  |
| 56 | 1.2D + 1.0Ev + 1.0Eh (9.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | 1     | SY   | 1     | SZ   |       |      |       |      |       |      |       |  |
| 57 | 1.2D + 1.0Ev + 1.0Eh (1.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | .866  | SY   | 1     | SZ   | .5    |      |       |      |       |      |       |  |
| 58 | 1.2D + 1.0Ev + 1.0Eh (1.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | .5    | SY   | 1     | SZ   | .866  |      |       |      |       |      |       |  |
| 59 | 1.2D + 1.0Ev + 1.0Eh (1.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   |       | SY   | 1     | SZ   | 1     |      |       |      |       |      |       |  |
| 60 | 1.2D + 1.0Ev + 1.0Eh (2.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | -.5   | SY   | 1     | SZ   | .866  |      |       |      |       |      |       |  |
| 61 | 1.2D + 1.0Ev + 1.0Eh (2.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | -.866 | SY   | 1     | SZ   | .5    |      |       |      |       |      |       |  |
| 62 | 1.2D + 1.0Ev + 1.0Eh (2.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | -1    | SY   | 1     | SZ   |       |      |       |      |       |      |       |  |
| 63 | 1.2D + 1.0Ev + 1.0Eh (3.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | -.866 | SY   | 1     | SZ   | -.5   |      |       |      |       |      |       |  |
| 64 | 1.2D + 1.0Ev + 1.0Eh (3.. |            | Y    |      | 1     | 1.2  | 39    | 1.2       | SX   | -.5   | SY   | 1     | SZ   | -.866 |      |       |      |       |      |       |  |

**Joint Coordinates and Temperatures**

|    | Label | X [ft] | Y [ft] | Z [ft]    | Temp [F] | Detach From Diap... |
|----|-------|--------|--------|-----------|----------|---------------------|
| 1  | N1    | 0      | 0      | 0         | 0        |                     |
| 2  | N2    | -0.    | 0      | -1.255758 | 0        |                     |
| 3  | N3    | -0.    | 0      | -5.162008 | 0        |                     |
| 4  | N4    | -0.    | .25    | -3.010833 | 0        |                     |
| 5  | N5    | -0.    | .25    | -8.21875  | 0        |                     |
| 6  | N6    | -0.    | .25    | -3.4275   | 0        |                     |
| 7  | N7    | -0.    | .25    | -3.9275   | 0        |                     |
| 8  | N8    | -0.    | .25    | -4.4275   | 0        |                     |
| 9  | N9    | -0.    | 0      | -3.4275   | 0        |                     |
| 10 | N10   | -0.    | 0      | -3.9275   | 0        |                     |
| 11 | N11   | -0.    | 0      | -4.4275   | 0        |                     |
| 12 | N12   | -0.    | .25    | -3.115    | 0        |                     |
| 13 | N16   | -.5    | .25    | -8.21875  | 0        |                     |
| 14 | N17   | .5     | .25    | -8.21875  | 0        |                     |

**Joint Coordinates and Temperatures (Continued)**

|    | Label | X [ft]    | Y [ft] | Z [ft]    | Temp [F] | Detach From Diap... |
|----|-------|-----------|--------|-----------|----------|---------------------|
| 15 | N20   | -2.607458 | .25    | 1.505417  | 0        |                     |
| 16 | N21   | -7.117646 | .25    | 4.109375  | 0        |                     |
| 17 | N22   | -2.968302 | .25    | 1.71375   | 0        |                     |
| 18 | N23   | -3.401315 | .25    | 1.96375   | 0        |                     |
| 19 | N24   | -3.834327 | .25    | 2.21375   | 0        |                     |
| 20 | N25   | -2.968302 | 0      | 1.71375   | 0        |                     |
| 21 | N26   | -3.401315 | 0      | 1.96375   | 0        |                     |
| 22 | N27   | -3.834327 | 0      | 2.21375   | 0        |                     |
| 23 | N28   | -2.697669 | .25    | 1.5575    | 0        |                     |
| 24 | N31   | -6.867646 | .25    | 4.542388  | 0        |                     |
| 25 | N32   | -7.367646 | .25    | 3.676362  | 0        |                     |
| 26 | N36   | 2.607458  | .25    | 1.505417  | 0        |                     |
| 27 | N37   | 7.117646  | .25    | 4.109375  | 0        |                     |
| 28 | N38   | 2.968302  | .25    | 1.71375   | 0        |                     |
| 29 | N39   | 3.401315  | .25    | 1.96375   | 0        |                     |
| 30 | N40   | 3.834327  | .25    | 2.21375   | 0        |                     |
| 31 | N41   | 2.968302  | 0      | 1.71375   | 0        |                     |
| 32 | N42   | 3.401315  | 0      | 1.96375   | 0        |                     |
| 33 | N43   | 3.834327  | 0      | 2.21375   | 0        |                     |
| 34 | N44   | 2.697669  | .25    | 1.5575    | 0        |                     |
| 35 | N45   | 7.367646  | .25    | 3.676362  | 0        |                     |
| 36 | N46   | 6.867646  | .25    | 4.542388  | 0        |                     |
| 37 | N47A  | 5.034313  | .25    | -0.36509  | 0        |                     |
| 38 | N48A  | -2.833333 | .25    | -4.177298 | 0        |                     |
| 39 | N49   | -2.20098  | .25    | 4.542388  | 0        |                     |
| 40 | N50   | 2.833313  | .25    | -4.177333 | 0        |                     |
| 41 | N51   | -5.034333 | .25    | -0.365054 | 0        |                     |
| 42 | N52   | 2.20102   | .25    | 4.542388  | 0        |                     |
| 43 | N53   | 2.70102   | .25    | 4.542388  | 0        |                     |
| 44 | N55   | 2.583313  | .25    | -4.610346 | 0        |                     |
| 45 | N57   | -5.284333 | .25    | 0.067958  | 0        |                     |
| 46 | N57A  | -2.583313 | .25    | -4.610346 | 0        |                     |
| 47 | N58   | -2.70102  | .25    | 4.542388  | 0        |                     |
| 48 | N60   | 5.284333  | .25    | 0.067958  | 0        |                     |
| 49 | N59   | 2.70102   | .25    | 3.042388  | 0        |                     |
| 50 | N60A  | -2.70102  | .25    | 3.042388  | 0        |                     |
| 51 | N61   | -0.       | .25    | -5.135833 | 0        |                     |
| 52 | N62   | -0.       | .25    | -7.885833 | 0        |                     |
| 53 | N63   | -0.229167 | .25    | -5.135833 | 0        |                     |
| 54 | N64   | -0.229167 | .25    | -7.885833 | 0        |                     |
| 55 | N65   | 0.229167  | .25    | -5.135833 | 0        |                     |
| 56 | N66   | 0.229167  | .25    | -7.885833 | 0        |                     |
| 57 | N67   | 4.811237  | .25    | 3.042388  | 0        |                     |
| 58 | N69   | -4.447762 | .25    | 2.567917  | 0        |                     |
| 59 | N70   | -6.829332 | .25    | 3.942917  | 0        |                     |
| 60 | N71   | -4.333179 | .25    | 2.766381  | 0        |                     |
| 61 | N72   | -6.714749 | .25    | 4.141381  | 0        |                     |
| 62 | N73   | -4.562345 | .25    | 2.369453  | 0        |                     |
| 63 | N74   | -6.943915 | .25    | 3.744453  | 0        |                     |
| 64 | N76   | 4.447762  | .25    | 2.567917  | 0        |                     |
| 65 | N77   | 6.829332  | .25    | 3.942917  | 0        |                     |
| 66 | N78   | 4.562345  | .25    | 2.369453  | 0        |                     |
| 67 | N79   | 6.943915  | .25    | 3.744453  | 0        |                     |
| 68 | N80   | 4.333179  | .25    | 2.766381  | 0        |                     |
| 69 | N81   | 6.714749  | .25    | 4.141381  | 0        |                     |
| 70 | N80A  | 6.714749  | .25    | 4.542388  | 0        |                     |
| 71 | N81A  | 1.284275  | .25    | -3.860346 | 0        |                     |

**Joint Coordinates and Temperatures (Continued)**

|     | Label | X [ft]    | Y [ft]    | Z [ft]    | Temp [F] | Detach From Diap... |
|-----|-------|-----------|-----------|-----------|----------|---------------------|
| 72  | N82   | 0.229167  | .25       | -5.687847 | 0        |                     |
| 73  | N84   | 0.576449  | .25       | -8.086337 | 0        |                     |
| 74  | N85   | -3.985295 | .25       | 0.817958  | 0        |                     |
| 75  | N86   | -5.040403 | .25       | 2.645459  | 0        |                     |
| 76  | N88   | -7.291197 | .25       | 3.543949  | 0        |                     |
| 77  | N89   | -1.284275 | .25       | -3.860346 | 0        |                     |
| 78  | N90   | -0.229167 | .25       | -5.687847 | 0        |                     |
| 79  | N91   | -0.576449 | .25       | -8.086337 | 0        |                     |
| 80  | N92   | -4.811237 | .25       | 3.042388  | 0        |                     |
| 81  | N93   | -6.714749 | .25       | 4.542388  | 0        |                     |
| 82  | N95   | 3.985295  | .25       | 0.817958  | 0        |                     |
| 83  | N96   | 5.040403  | .25       | 2.645459  | 0        |                     |
| 84  | N97   | 7.291197  | .25       | 3.543949  | 0        |                     |
| 85  | N113A | -6.284313 | .25       | 4.542388  | 0        |                     |
| 86  | N115  | -2.549021 | .25       | 4.542388  | 0        |                     |
| 87  | N119  | -6.284313 | .25       | 4.834054  | 0        |                     |
| 88  | N121  | -2.549021 | .25       | 4.834054  | 0        |                     |
| 89  | N125  | 2.784312  | .25       | 4.542388  | 0        |                     |
| 90  | N127  | 2.784312  | .25       | 4.834054  | 0        |                     |
| 91  | N129  | 6.284313  | .25       | 4.542388  | 0        |                     |
| 92  | N131  | 6.284313  | .25       | 4.834054  | 0        |                     |
| 93  | N133  | -6.284313 | 4.583333  | 4.834054  | 0        |                     |
| 94  | N134  | -2.549021 | 4.583333  | 4.834054  | 0        |                     |
| 95  | N136  | 2.784312  | 5.583333  | 4.834054  | 0        |                     |
| 96  | N137  | 6.284313  | 4.583333  | 4.834054  | 0        |                     |
| 97  | N138  | -6.284313 | -2.416667 | 4.834054  | 0        |                     |
| 98  | N139  | -2.549021 | -2.416667 | 4.834054  | 0        |                     |
| 99  | N141  | 2.784312  | -2.416667 | 4.834054  | 0        |                     |
| 100 | N142  | 6.284313  | -2.416667 | 4.834054  | 0        |                     |
| 101 | N203B | -2.69943  | .25       | 3.125722  | 0        |                     |
| 102 | N204B | -2.70074  | .25       | 4.292388  | 0        |                     |
| 103 | N205  | 2.69943   | .25       | 3.125722  | 0        |                     |
| 104 | N206A | 2.70074   | .25       | 4.292388  | 0        |                     |
| 105 | N207A | 2.57443   | .25       | 3.125722  | 0        |                     |
| 106 | N208  | 2.57574   | .25       | 4.292388  | 0        |                     |
| 107 | N211  | -2.57443  | .25       | 3.125722  | 0        |                     |
| 108 | N212  | -2.57574  | .25       | 4.292388  | 0        |                     |
| 109 | N211A | 4.05667   | .25       | 0.774914  | 0        |                     |
| 110 | N212A | 5.067687  | .25       | 0.192715  | 0        |                     |
| 111 | N213  | 1.35724   | .25       | -3.900636 | 0        |                     |
| 112 | N214  | 2.366947  | .25       | -4.485103 | 0        |                     |
| 113 | N215  | 1.41974   | .25       | -3.792383 | 0        |                     |
| 114 | N216  | 2.429447  | .25       | -4.37685  | 0        |                     |
| 115 | N217  | 3.99417   | .25       | 0.666661  | 0        |                     |
| 116 | N218  | 5.005187  | .25       | 0.084462  | 0        |                     |
| 117 | N219  | -1.35724  | .25       | -3.900636 | 0        |                     |
| 118 | N220  | -2.366947 | .25       | -4.485103 | 0        |                     |
| 119 | N221  | -4.05667  | .25       | 0.774914  | 0        |                     |
| 120 | N222  | -5.067687 | .25       | 0.192715  | 0        |                     |
| 121 | N223  | -3.99417  | .25       | 0.666661  | 0        |                     |
| 122 | N224  | -5.005187 | .25       | 0.084462  | 0        |                     |
| 123 | N225  | -1.41974  | .25       | -3.792383 | 0        |                     |
| 124 | N226  | -2.429447 | .25       | -4.37685  | 0        |                     |
| 125 | N169A | -1.087519 | 0         | 0.627879  | 0        |                     |
| 126 | N170A | -4.47043  | 0         | 2.581004  | 0        |                     |
| 127 | N171A | 1.087519  | 0         | 0.627879  | 0        |                     |
| 128 | N172A | 4.47043   | 0         | 2.581004  | 0        |                     |

**Joint Coordinates and Temperatures (Continued)**

|     | Label | X [ft]    | Y [ft]    | Z [ft]    | Temp [F] | Detach From Diap... |
|-----|-------|-----------|-----------|-----------|----------|---------------------|
| 129 | N129A | 7.07598   | .25       | 3.171181  | 0        |                     |
| 130 | N130  | 5.208334  | .25       | -0.063677 | 0        |                     |
| 131 | N131A | 7.32857   | .25       | 3.025347  | 0        |                     |
| 132 | N132  | 5.460925  | .25       | -0.20951  | 0        |                     |
| 133 | N133A | 2.541667  | .25       | -4.682479 | 0        |                     |
| 134 | N134A | 2.794258  | .25       | -4.828312 | 0        |                     |
| 135 | N135  | 0.791667  | .25       | -7.713568 | 0        |                     |
| 136 | N136A | 1.044257  | .25       | -7.859402 | 0        |                     |
| 137 | N137A | 7.32857   | 4.583333  | 3.025347  | 0        |                     |
| 138 | N138A | 5.460925  | 4.583333  | -0.20951  | 0        |                     |
| 139 | N139A | 2.794258  | 5.583333  | -4.828312 | 0        |                     |
| 140 | N140  | 1.044257  | 4.583333  | -7.859402 | 0        |                     |
| 141 | N141A | 7.32857   | -2.416667 | 3.025347  | 0        |                     |
| 142 | N142A | 5.460925  | -2.416667 | -0.20951  | 0        |                     |
| 143 | N143  | 2.794258  | -2.416667 | -4.828312 | 0        |                     |
| 144 | N144  | 1.044257  | -2.416667 | -7.859402 | 0        |                     |
| 145 | N145  | -0.791667 | .25       | -7.713569 | 0        |                     |
| 146 | N146  | -2.659312 | .25       | -4.478711 | 0        |                     |
| 147 | N147  | -1.044257 | .25       | -7.859402 | 0        |                     |
| 148 | N148  | -2.911903 | .25       | -4.624544 | 0        |                     |
| 149 | N149  | -5.325979 | .25       | 0.140091  | 0        |                     |
| 150 | N150  | -5.57857  | .25       | -0.005742 | 0        |                     |
| 151 | N151  | -7.07598  | .25       | 3.171181  | 0        |                     |
| 152 | N152  | -7.32857  | .25       | 3.025347  | 0        |                     |
| 153 | N153  | -1.044257 | 4.583333  | -7.859402 | 0        |                     |
| 154 | N154  | -2.911903 | 4.583333  | -4.624544 | 0        |                     |
| 155 | N155  | -5.57857  | 5.583333  | -0.005742 | 0        |                     |
| 156 | N156  | -7.32857  | 4.583333  | 3.025347  | 0        |                     |
| 157 | N157  | -1.044257 | -2.416667 | -7.859402 | 0        |                     |
| 158 | N158  | -2.911903 | -2.416667 | -4.624544 | 0        |                     |
| 159 | N159  | -5.57857  | -2.416667 | -0.005742 | 0        |                     |
| 160 | N160  | -7.32857  | -2.416667 | 3.025347  | 0        |                     |
| 161 | N161  | -0.       | 0         | -2.4275   | 0        |                     |
| 162 | N162  | 0.208333  | 0         | -2.4275   | 0        |                     |
| 163 | N163  | 0.208333  | 2         | -2.4275   | 0        |                     |
| 164 | N164  | 0.208333  | -1        | -2.4275   | 0        |                     |
| 165 | N165  | -6.99998  | 3.25      | 4.542388  | 0        |                     |
| 166 | N166  | 6.99998   | 3.25      | 4.542388  | 0        |                     |
| 167 | N167  | -6.284313 | 3.25      | 4.542388  | 0        |                     |
| 168 | N168  | -2.549021 | 3.25      | 4.542388  | 0        |                     |
| 169 | N169  | -6.284313 | 3.25      | 4.834054  | 0        |                     |
| 170 | N170  | -2.549021 | 3.25      | 4.834054  | 0        |                     |
| 171 | N171  | 2.784312  | 3.25      | 4.542388  | 0        |                     |
| 172 | N172  | 2.784312  | 3.25      | 4.834054  | 0        |                     |
| 173 | N173  | 6.284313  | 3.25      | 4.542388  | 0        |                     |
| 174 | N174  | 6.284313  | 3.25      | 4.834054  | 0        |                     |
| 175 | N175  | -5.49998  | 3.25      | 4.542388  | 0        |                     |
| 176 | N176  | -5.49998  | 3.25      | 4.292388  | 0        |                     |
| 177 | N177  | 5.49998   | 3.25      | 4.542388  | 0        |                     |
| 178 | N178  | 5.49998   | 3.25      | 4.292388  | 0        |                     |
| 179 | N179  | 7.433813  | 3.25      | 3.790966  | 0        |                     |
| 180 | N180  | 0.433833  | 3.25      | -8.333354 | 0        |                     |
| 181 | N181  | 7.07598   | 3.25      | 3.171181  | 0        |                     |
| 182 | N182  | 5.208334  | 3.25      | -0.063677 | 0        |                     |
| 183 | N183  | 7.32857   | 3.25      | 3.025347  | 0        |                     |
| 184 | N184  | 5.460925  | 3.25      | -0.20951  | 0        |                     |
| 185 | N185  | 2.541667  | 3.25      | -4.682479 | 0        |                     |

**Joint Coordinates and Temperatures (Continued)**

|     | Label | X [ft]    | Y [ft] | Z [ft]    | Temp [F] | Detach From Diap... |
|-----|-------|-----------|--------|-----------|----------|---------------------|
| 186 | N186  | 2.794258  | 3.25   | -4.828312 | 0        |                     |
| 187 | N187  | 0.791667  | 3.25   | -7.713568 | 0        |                     |
| 188 | N188  | 1.044257  | 3.25   | -7.859402 | 0        |                     |
| 189 | N189  | 6.683813  | 3.25   | 2.491928  | 0        |                     |
| 190 | N190  | 6.467307  | 3.25   | 2.616928  | 0        |                     |
| 191 | N191  | 1.183833  | 3.25   | -7.034316 | 0        |                     |
| 192 | N192  | 0.967327  | 3.25   | -6.909316 | 0        |                     |
| 193 | N193  | -0.433833 | 3.25   | -8.333354 | 0        |                     |
| 194 | N194  | -7.433813 | 3.25   | 3.790966  | 0        |                     |
| 195 | N195  | -0.791667 | 3.25   | -7.713569 | 0        |                     |
| 196 | N196  | -2.659312 | 3.25   | -4.478711 | 0        |                     |
| 197 | N197  | -1.044257 | 3.25   | -7.859402 | 0        |                     |
| 198 | N198  | -2.911903 | 3.25   | -4.624544 | 0        |                     |
| 199 | N199  | -5.325979 | 3.25   | 0.140091  | 0        |                     |
| 200 | N200  | -5.57857  | 3.25   | -0.005742 | 0        |                     |
| 201 | N201  | -7.07598  | 3.25   | 3.171181  | 0        |                     |
| 202 | N202  | -7.32857  | 3.25   | 3.025347  | 0        |                     |
| 203 | N203  | -1.183833 | 3.25   | -7.034316 | 0        |                     |
| 204 | N204  | -0.967327 | 3.25   | -6.909316 | 0        |                     |
| 205 | N205A | -6.683813 | 3.25   | 2.491928  | 0        |                     |
| 206 | N206  | -6.467307 | 3.25   | 2.616928  | 0        |                     |
| 207 | N207  | -0.       | .25    | -4.844167 | 0        |                     |
| 208 | N208A | -0.       | 0      | -4.844167 | 0        |                     |
| 209 | N209  | -0.       | -2     | -1.255758 | 0        |                     |
| 210 | N210  | -4.195171 | .25    | 2.422083  | 0        |                     |
| 211 | N211B | -4.195171 | 0      | 2.422083  | 0        |                     |
| 212 | N212B | -1.087519 | -2     | 0.627879  | 0        |                     |
| 213 | N213A | 4.195171  | .25    | 2.422083  | 0        |                     |
| 214 | N214A | 4.195171  | 0      | 2.422083  | 0        |                     |
| 215 | N215A | 1.087519  | -2     | 0.627879  | 0        |                     |

**Hot Rolled Steel Section Sets**

|   | Label               | Shape      | Type   | Design List            | Material      | Design ... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|---------------------|------------|--------|------------------------|---------------|------------|---------|-----------|-----------|---------|
| 1 | Antenna Pipe        | PIPE 2.0   | Column | Pipe                   | A53 Gr. B     | Typical    | 1.02    | .627      | .627      | 1.25    |
| 2 | Standoff Horizontal | HSS3X3X5   | Beam   | SquareTube             | A500 Gr. B 46 | Typical    | 2.94    | 3.45      | 3.45      | 5.94    |
| 3 | Standoff Plate      | PL5/8X6    | Beam   | RECT                   | A36 Gr.36     | Typical    | 3.75    | .122      | 11.25     | .456    |
| 4 | Face Horizontal     | PIPE 3.0   | Beam   | Pipe                   | A53 Gr. B     | Typical    | 2.07    | 2.85      | 2.85      | 5.69    |
| 5 | Cross Bracing       | L2.5x2.5x4 | Beam   | Single Angle           | A36 Gr.36     | Typical    | 1.19    | .692      | .692      | .026    |
| 6 | Grating Support     | L2.5x2.5x4 | Beam   | Single Angle           | A36 Gr.36     | Typical    | 1.19    | .692      | .692      | .026    |
| 7 | Support Rail        | PIPE 2.5   | Beam   | Pipe                   | A53 Gr. B     | Typical    | 1.61    | 1.45      | 1.45      | 2.89    |
| 8 | Support Rail Corner | L3X3X4     | Beam   | Single Angle           | A36 Gr.36     | Typical    | 1.44    | 1.23      | 1.23      | .031    |
| 9 | Kicker              | LL3x3x3x3  | Column | Double Angle (3/8 Gap) | A36 Gr.36     | Typical    | 2.18    | 4.09      | 1.9       | .027    |

**Hot Rolled Steel Properties**

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



**Member Primary Data**

|    | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape     | Type   | Design List  | Material     | Design Rules |
|----|-------|---------|---------|---------|-------------|-------------------|--------|--------------|--------------|--------------|
| 1  | M1    | N8      | N11     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 2  | M2    | N7      | N10     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 3  | M3    | N6      | N9      |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 4  | M4    | N2      | N3      |         |             | Standoff Horiz... | Beam   | SquareTube   | A500 Gr. ... | Typical      |
| 5  | M5    | N4      | N5      |         |             | Standoff Horiz... | Beam   | SquareTube   | A500 Gr. ... | Typical      |
| 6  | M7A   | N24     | N27     |         | 60          | RIGID             | None   | None         | RIGID        | Typical      |
| 7  | M8    | N23     | N26     |         | 60          | RIGID             | None   | None         | RIGID        | Typical      |
| 8  | M9    | N22     | N25     |         | 60          | RIGID             | None   | None         | RIGID        | Typical      |
| 9  | M11   | N20     | N21     |         |             | Standoff Horiz... | Beam   | SquareTube   | A500 Gr. ... | Typical      |
| 10 | M13   | N40     | N43     |         | 30          | RIGID             | None   | None         | RIGID        | Typical      |
| 11 | M14   | N39     | N42     |         | 30          | RIGID             | None   | None         | RIGID        | Typical      |
| 12 | M15   | N38     | N41     |         | 30          | RIGID             | None   | None         | RIGID        | Typical      |
| 13 | M17   | N36     | N37     |         |             | Standoff Horiz... | Beam   | SquareTube   | A500 Gr. ... | Typical      |
| 14 | M18   | N46     | N45     |         |             | Standoff Plate    | Beam   | RECT         | A36 Gr.36    | Typical      |
| 15 | M19   | N45     | N47A    |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 16 | M20   | N16     | N48A    |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 17 | M21   | N31     | N49     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 18 | M22   | N47A    | N50     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 19 | M23   | N48A    | N51     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 20 | M24   | N49     | N52     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 21 | M25   | N50     | N17     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 22 | M26   | N51     | N32     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 23 | M27   | N52     | N46     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 24 | M28   | N44     | N53     |         | 270         | Cross Bracing     | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 25 | M29   | N12     | N55     |         | 270         | Cross Bracing     | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 26 | M30   | N28     | N57     |         | 270         | Cross Bracing     | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 27 | M31   | N57A    | N12     |         | 270         | Cross Bracing     | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 28 | M32   | N58     | N28     |         | 270         | Cross Bracing     | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 29 | M33   | N60     | N44     |         | 270         | Cross Bracing     | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 30 | M34   | N65     | N61     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 31 | M35   | N66     | N62     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 32 | M36   | N64     | N62     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 33 | M37   | N63     | N61     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 34 | M38   | N64     | N63     |         |             | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 35 | M39   | N66     | N65     |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 36 | M40   | N73     | N69     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 37 | M41   | N74     | N70     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 38 | M42   | N72     | N70     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 39 | M43   | N71     | N69     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 40 | M44   | N72     | N71     |         |             | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 41 | M45   | N74     | N73     |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 42 | M46   | N80     | N76     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 43 | M47   | N81     | N77     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 44 | M48   | N79     | N77     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 45 | M49   | N78     | N76     |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 46 | M50   | N79     | N78     |         |             | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 47 | M51   | N81     | N80     |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 48 | M77   | N113A   | N119    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 49 | M79   | N115    | N121    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 50 | M83   | N125    | N127    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 51 | M85   | N129    | N131    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 52 | MP5A  | N133    | N138    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 53 | MP4A  | N134    | N139    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 54 | MP2A  | N136    | N141    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 55 | MP1A  | N137    | N142    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 56 | M122A | N17     | N16     |         |             | Standoff Plate    | Beam   | RECT         | A36 Gr.36    | Typical      |

**Member Primary Data (Continued)**

|     | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape     | Type   | Design List  | Material     | Design Rules |
|-----|-------|---------|---------|---------|-------------|-------------------|--------|--------------|--------------|--------------|
| 57  | M123A | N32     | N31     |         |             | Standoff Plate    | Beam   | RECT         | A36 Gr.36    | Typical      |
| 58  | M124  | N205    | N207A   |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 59  | M125  | N206A   | N208    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 60  | M128  | N208    | N207A   |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 61  | M127  | N203B   | N211    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 62  | M128A | N204B   | N212    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 63  | M129  | N211    | N212    |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 64  | M136  | N213    | N215    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 65  | M137  | N214    | N216    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 66  | M138  | N216    | N215    |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 67  | M139  | N211A   | N217    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 68  | M140  | N212A   | N218    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 69  | M141  | N217    | N218    |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 70  | M148  | N221    | N223    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 71  | M149  | N222    | N224    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 72  | M150  | N224    | N223    |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 73  | M151  | N219    | N225    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 74  | M152  | N220    | N226    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 75  | M153  | N225    | N226    |         | 270         | Grating Support   | Beam   | Single Angle | A36 Gr.36    | Typical      |
| 76  | M98A  | N169A   | N170A   |         |             | Standoff Horiz... | Beam   | SquareTube   | A500 Gr. ... | Typical      |
| 77  | M99   | N171A   | N172A   |         |             | Standoff Horiz... | Beam   | SquareTube   | A500 Gr. ... | Typical      |
| 78  | M78   | N129A   | N131A   |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 79  | M79A  | N130    | N132    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 80  | M80   | N133A   | N134A   |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 81  | M81   | N135    | N136A   |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 82  | MP4C  | N137A   | N141A   |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 83  | MP3C  | N138A   | N142A   |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 84  | MP2C  | N139A   | N143    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 85  | MP1C  | N140    | N144    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 86  | M86   | N145    | N147    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 87  | M87   | N146    | N148    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 88  | M88   | N149    | N150    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 89  | M89   | N151    | N152    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 90  | MP4B  | N153    | N157    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 91  | MP3B  | N154    | N158    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 92  | MP2B  | N155    | N159    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 93  | MP1B  | N156    | N160    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 94  | M94   | N161    | N162    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 95  | OVP   | N163    | N164    |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B    | Typical      |
| 96  | M96   | N167    | N169    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 97  | M97   | N168    | N170    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 98  | M98   | N171    | N172    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 99  | M99A  | N173    | N174    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 100 | M100  | N165    | N166    |         |             | Support Rail      | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 101 | M101  | N175    | N176    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 102 | M102  | N177    | N178    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 103 | M103  | N181    | N183    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 104 | M104  | N182    | N184    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 105 | M105  | N185    | N186    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 106 | M106  | N187    | N188    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 107 | M107  | N179    | N180    |         |             | Support Rail      | Beam   | Pipe         | A53 Gr. B    | Typical      |
| 108 | M108  | N189    | N190    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 109 | M109  | N191    | N192    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 110 | M110  | N195    | N197    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 111 | M111  | N196    | N198    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 112 | M112  | N199    | N200    |         |             | RIGID             | None   | None         | RIGID        | Typical      |
| 113 | M113  | N201    | N202    |         |             | RIGID             | None   | None         | RIGID        | Typical      |

**Member Primary Data (Continued)**

|     | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape     | Type   | Design List        | Material  | Design Rules |
|-----|-------|---------|---------|---------|-------------|-------------------|--------|--------------------|-----------|--------------|
| 114 | M114  | N193    | N194    |         |             | Support Rail      | Beam   | Pipe               | A53 Gr. B | Typical      |
| 115 | M115  | N203    | N204    |         |             | RIGID             | None   | None               | RIGID     | Typical      |
| 116 | M116  | N205A   | N206    |         |             | RIGID             | None   | None               | RIGID     | Typical      |
| 117 | M117  | N176    | N206    |         | 90          | Support Rail C... | Beam   | Single Angle       | A36 Gr.36 | Typical      |
| 118 | M118  | N204    | N192    |         | 90          | Support Rail C... | Beam   | Single Angle       | A36 Gr.36 | Typical      |
| 119 | M119  | N190    | N178    |         | 90          | Support Rail C... | Beam   | Single Angle       | A36 Gr.36 | Typical      |
| 120 | M120  | N207    | N208A   |         | 90          | RIGID             | None   | None               | RIGID     | Typical      |
| 121 | M121  | N208A   | N209    |         |             | Kicker            | Column | Double Angle (...) | A36 Gr.36 | Typical      |
| 122 | M122  | N210    | N211B   |         | 90          | RIGID             | None   | None               | RIGID     | Typical      |
| 123 | M123  | N211B   | N212B   |         |             | Kicker            | Column | Double Angle (...) | A36 Gr.36 | Typical      |
| 124 | M124A | N213A   | N214A   |         | 90          | RIGID             | None   | None               | RIGID     | Typical      |
| 125 | M125A | N214A   | N215A   |         |             | Kicker            | Column | Double Angle (...) | A36 Gr.36 | Typical      |

**Member Advanced Data**

|    | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 1  | M1    | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 2  | M2    | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 3  | M3    | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 4  | M4    |           |           |              |              |          | Yes      |             |              |          | None       |
| 5  | M5    |           |           |              |              |          | Yes      |             |              |          | None       |
| 6  | M7A   | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 7  | M8    | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 8  | M9    | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 9  | M11   |           |           |              |              |          | Yes      | Default     |              |          | None       |
| 10 | M13   | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 11 | M14   | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 12 | M15   | BenPIN    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 13 | M17   |           |           |              |              |          | Yes      |             |              |          | None       |
| 14 | M18   |           |           |              |              |          | Yes      |             |              |          | None       |
| 15 | M19   |           |           |              |              |          | Yes      |             |              |          | None       |
| 16 | M20   |           |           |              |              |          | Yes      |             |              |          | None       |
| 17 | M21   |           |           |              |              |          | Yes      |             |              |          | None       |
| 18 | M22   |           |           |              |              |          | Yes      |             |              |          | None       |
| 19 | M23   |           |           |              |              |          | Yes      |             |              |          | None       |
| 20 | M24   |           |           |              |              |          | Yes      |             |              |          | None       |
| 21 | M25   |           |           |              |              |          | Yes      |             |              |          | None       |
| 22 | M26   |           |           |              |              |          | Yes      |             |              |          | None       |
| 23 | M27   |           |           |              |              |          | Yes      |             |              |          | None       |
| 24 | M28   |           |           |              |              |          | Yes      |             |              |          | None       |
| 25 | M29   |           |           |              |              |          | Yes      |             |              |          | None       |
| 26 | M30   |           |           |              |              |          | Yes      |             |              |          | None       |
| 27 | M31   |           |           |              |              |          | Yes      |             |              |          | None       |
| 28 | M32   |           |           |              |              |          | Yes      |             |              |          | None       |
| 29 | M33   |           |           |              |              |          | Yes      |             |              |          | None       |
| 30 | M34   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 31 | M35   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 32 | M36   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 33 | M37   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 34 | M38   |           |           |              |              |          | Yes      |             |              |          | None       |
| 35 | M39   |           |           |              |              |          | Yes      |             |              |          | None       |
| 36 | M40   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 37 | M41   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 38 | M42   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 39 | M43   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 40 | M44   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |

**Member Advanced Data (Continued)**

|    | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat.. | Analysis ... | Inactive | Seismic.. |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|------------|--------------|----------|-----------|
| 41 | M45   |           |           |              |              |          | Yes      |            |              |          | None      |
| 42 | M46   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 43 | M47   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 44 | M48   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 45 | M49   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 46 | M50   |           |           |              |              |          | Yes      |            |              |          | None      |
| 47 | M51   |           |           |              |              |          | Yes      |            |              |          | None      |
| 48 | M77   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 49 | M79   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 50 | M83   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 51 | M85   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 52 | MP5A  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 53 | MP4A  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 54 | MP2A  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 55 | MP1A  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 56 | M122A |           |           |              |              |          | Yes      |            |              |          | None      |
| 57 | M123A |           |           |              |              |          | Yes      |            |              |          | None      |
| 58 | M124  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 59 | M125  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 60 | M128  | BenPIN    | BenPIN    |              |              |          | Yes      |            |              |          | None      |
| 61 | M127  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 62 | M128A |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 63 | M129  | BenPIN    | BenPIN    |              |              |          | Yes      |            |              |          | None      |
| 64 | M136  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 65 | M137  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 66 | M138  | BenPIN    | BenPIN    |              |              |          | Yes      |            |              |          | None      |
| 67 | M139  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 68 | M140  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 69 | M141  | BenPIN    | BenPIN    |              |              |          | Yes      |            |              |          | None      |
| 70 | M148  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 71 | M149  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 72 | M150  | BenPIN    | BenPIN    |              |              |          | Yes      |            |              |          | None      |
| 73 | M151  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 74 | M152  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 75 | M153  | BenPIN    | BenPIN    |              |              |          | Yes      |            |              |          | None      |
| 76 | M98A  |           |           |              |              |          | Yes      |            |              |          | None      |
| 77 | M99   |           |           |              |              |          | Yes      |            |              |          | None      |
| 78 | M78   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 79 | M79A  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 80 | M80   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 81 | M81   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 82 | MP4C  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 83 | MP3C  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 84 | MP2C  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 85 | MP1C  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 86 | M86   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 87 | M87   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 88 | M88   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 89 | M89   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 90 | MP4B  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 91 | MP3B  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 92 | MP2B  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 93 | MP1B  |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 94 | M94   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 95 | OVP   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 96 | M96   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |
| 97 | M97   |           |           |              |              |          | Yes      | ** NA **   |              |          | None      |

**Member Advanced Data (Continued)**

|     | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|-----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 98  | M98   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 99  | M99A  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 100 | M100  |           |           |              |              |          | Yes      |             |              |          | None       |
| 101 | M101  | OOOOOX    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 102 | M102  | OOOOOX    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 103 | M103  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 104 | M104  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 105 | M105  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 106 | M106  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 107 | M107  |           |           |              |              |          | Yes      |             |              |          | None       |
| 108 | M108  | OOOOOX    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 109 | M109  | OOOOOX    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 110 | M110  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 111 | M111  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 112 | M112  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 113 | M113  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 114 | M114  |           |           |              |              |          | Yes      |             |              |          | None       |
| 115 | M115  | OOOOOX    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 116 | M116  | OOOOOX    |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 117 | M117  |           |           |              |              |          | Yes      |             |              |          | None       |
| 118 | M118  |           |           |              |              |          | Yes      |             |              |          | None       |
| 119 | M119  |           |           |              |              |          | Yes      |             |              |          | None       |
| 120 | M120  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 121 | M121  | BenPIN    | BenPIN    |              |              |          | Yes      | ** NA **    |              |          | None       |
| 122 | M122  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 123 | M123  | BenPIN    | BenPIN    |              |              |          | Yes      | ** NA **    |              |          | None       |
| 124 | M124A |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 125 | M125A | BenPIN    | BenPIN    |              |              |          | Yes      | ** NA **    |              |          | None       |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | Y         | -7.15              | .25            |
| 2  | MP1A         | My        | -.004              | .25            |
| 3  | MP1A         | Mz        | 0                  | .25            |
| 4  | MP1A         | Y         | -7.15              | 4              |
| 5  | MP1A         | My        | -.004              | 4              |
| 6  | MP1A         | Mz        | 0                  | 4              |
| 7  | MP1B         | Y         | -7.15              | .25            |
| 8  | MP1B         | My        | .002               | .25            |
| 9  | MP1B         | Mz        | -.003              | .25            |
| 10 | MP1B         | Y         | -7.15              | 4              |
| 11 | MP1B         | My        | .002               | 4              |
| 12 | MP1B         | Mz        | -.003              | 4              |
| 13 | MP1C         | Y         | -7.15              | .25            |
| 14 | MP1C         | My        | .002               | .25            |
| 15 | MP1C         | Mz        | .003               | .25            |
| 16 | MP1C         | Y         | -7.15              | 4              |
| 17 | MP1C         | My        | .002               | 4              |
| 18 | MP1C         | Mz        | .003               | 4              |
| 19 | MP2A         | Y         | -31.65             | .25            |
| 20 | MP2A         | My        | -.016              | .25            |
| 21 | MP2A         | Mz        | .018               | .25            |
| 22 | MP2A         | Y         | -31.65             | 5.25           |
| 23 | MP2A         | My        | -.016              | 5.25           |
| 24 | MP2A         | Mz        | .018               | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2C         | Y         | -31.65             | .25            |
| 26 | MP2C         | My        | .024               | .25            |
| 27 | MP2C         | Mz        | .004               | .25            |
| 28 | MP2C         | Y         | -31.65             | 5.25           |
| 29 | MP2C         | My        | .024               | 5.25           |
| 30 | MP2C         | Mz        | .004               | 5.25           |
| 31 | MP2A         | Y         | -31.65             | .25            |
| 32 | MP2A         | My        | -.016              | .25            |
| 33 | MP2A         | Mz        | -.018              | .25            |
| 34 | MP2A         | Y         | -31.65             | 5.25           |
| 35 | MP2A         | My        | -.016              | 5.25           |
| 36 | MP2A         | Mz        | -.018              | 5.25           |
| 37 | MP2C         | Y         | -31.65             | .25            |
| 38 | MP2C         | My        | -.008              | .25            |
| 39 | MP2C         | Mz        | .023               | .25            |
| 40 | MP2C         | Y         | -31.65             | 5.25           |
| 41 | MP2C         | My        | -.008              | 5.25           |
| 42 | MP2C         | Mz        | .023               | 5.25           |
| 43 | MP2B         | Y         | -45.75             | .25            |
| 44 | MP2B         | My        | -.016              | .25            |
| 45 | MP2B         | Mz        | -.039              | .25            |
| 46 | MP2B         | Y         | -45.75             | 5.25           |
| 47 | MP2B         | My        | -.016              | 5.25           |
| 48 | MP2B         | Mz        | -.039              | 5.25           |
| 49 | MP2B         | Y         | -45.75             | .25            |
| 50 | MP2B         | My        | .042               | .25            |
| 51 | MP2B         | Mz        | .001               | .25            |
| 52 | MP2B         | Y         | -45.75             | 5.25           |
| 53 | MP2B         | My        | .042               | 5.25           |
| 54 | MP2B         | Mz        | .001               | 5.25           |
| 55 | MP4A         | Y         | -43.55             | 1.13           |
| 56 | MP4A         | My        | -.022              | 1.13           |
| 57 | MP4A         | Mz        | 0                  | 1.13           |
| 58 | MP4A         | Y         | -43.55             | 3.13           |
| 59 | MP4A         | My        | -.022              | 3.13           |
| 60 | MP4A         | Mz        | 0                  | 3.13           |
| 61 | MP4B         | Y         | -43.55             | 1.13           |
| 62 | MP4B         | My        | .012               | 1.13           |
| 63 | MP4B         | Mz        | -.018              | 1.13           |
| 64 | MP4B         | Y         | -43.55             | 3.13           |
| 65 | MP4B         | My        | .012               | 3.13           |
| 66 | MP4B         | Mz        | -.018              | 3.13           |
| 67 | MP4C         | Y         | -43.55             | 1.13           |
| 68 | MP4C         | My        | .011               | 1.13           |
| 69 | MP4C         | Mz        | .019               | 1.13           |
| 70 | MP4C         | Y         | -43.55             | 3.13           |
| 71 | MP4C         | My        | .011               | 3.13           |
| 72 | MP4C         | Mz        | .019               | 3.13           |
| 73 | MP1A         | Y         | -74.7              | 2              |
| 74 | MP1A         | My        | .025               | 2              |
| 75 | MP1A         | Mz        | 0                  | 2              |
| 76 | MP1B         | Y         | -74.7              | 2              |
| 77 | MP1B         | My        | -.012              | 2              |
| 78 | MP1B         | Mz        | .022               | 2              |
| 79 | MP1C         | Y         | -74.7              | 2              |
| 80 | MP1C         | My        | -.012              | 2              |
| 81 | MP1C         | Mz        | -.022              | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 82  | MP2A         | Y         | -70.3              | 2              |
| 83  | MP2A         | My        | .023               | 2              |
| 84  | MP2A         | Mz        | 0                  | 2              |
| 85  | MP2B         | Y         | -70.3              | 2              |
| 86  | MP2B         | My        | -.012              | 2              |
| 87  | MP2B         | Mz        | .02                | 2              |
| 88  | MP2C         | Y         | -70.3              | 2              |
| 89  | MP2C         | My        | -.012              | 2              |
| 90  | MP2C         | Mz        | -.02               | 2              |
| 91  | MP2A         | Y         | -10.4              | 5              |
| 92  | MP2A         | My        | .003               | 5              |
| 93  | MP2A         | Mz        | 0                  | 5              |
| 94  | MP2B         | Y         | -10.4              | 5              |
| 95  | MP2B         | My        | -.002              | 5              |
| 96  | MP2B         | Mz        | .003               | 5              |
| 97  | MP2C         | Y         | -10.4              | 5              |
| 98  | MP2C         | My        | -.002              | 5              |
| 99  | MP2C         | Mz        | -.003              | 5              |
| 100 | OVP          | Y         | -32                | .75            |
| 101 | OVP          | My        | 0                  | .75            |
| 102 | OVP          | Mz        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | Y         | -37.6              | .25            |
| 2  | MP1A         | My        | -.019              | .25            |
| 3  | MP1A         | Mz        | 0                  | .25            |
| 4  | MP1A         | Y         | -37.6              | 4              |
| 5  | MP1A         | My        | -.019              | 4              |
| 6  | MP1A         | Mz        | 0                  | 4              |
| 7  | MP1B         | Y         | -37.6              | .25            |
| 8  | MP1B         | My        | .009               | .25            |
| 9  | MP1B         | Mz        | -.016              | .25            |
| 10 | MP1B         | Y         | -37.6              | 4              |
| 11 | MP1B         | My        | .009               | 4              |
| 12 | MP1B         | Mz        | -.016              | 4              |
| 13 | MP1C         | Y         | -37.6              | .25            |
| 14 | MP1C         | My        | .009               | .25            |
| 15 | MP1C         | Mz        | .016               | .25            |
| 16 | MP1C         | Y         | -37.6              | 4              |
| 17 | MP1C         | My        | .009               | 4              |
| 18 | MP1C         | Mz        | .016               | 4              |
| 19 | MP2A         | Y         | -69.538            | .25            |
| 20 | MP2A         | My        | -.035              | .25            |
| 21 | MP2A         | Mz        | .041               | .25            |
| 22 | MP2A         | Y         | -69.538            | 5.25           |
| 23 | MP2A         | My        | -.035              | 5.25           |
| 24 | MP2A         | Mz        | .041               | 5.25           |
| 25 | MP2C         | Y         | -69.538            | .25            |
| 26 | MP2C         | My        | .053               | .25            |
| 27 | MP2C         | Mz        | .01                | .25            |
| 28 | MP2C         | Y         | -69.538            | 5.25           |
| 29 | MP2C         | My        | .053               | 5.25           |
| 30 | MP2C         | Mz        | .01                | 5.25           |
| 31 | MP2A         | Y         | -69.538            | .25            |
| 32 | MP2A         | My        | -.035              | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A         | Mz        | -.041              | .25            |
| 34 | MP2A         | Y         | -69.538            | 5.25           |
| 35 | MP2A         | My        | -.035              | 5.25           |
| 36 | MP2A         | Mz        | -.041              | 5.25           |
| 37 | MP2C         | Y         | -69.538            | .25            |
| 38 | MP2C         | My        | -.018              | .25            |
| 39 | MP2C         | Mz        | .05                | .25            |
| 40 | MP2C         | Y         | -69.538            | 5.25           |
| 41 | MP2C         | My        | -.018              | 5.25           |
| 42 | MP2C         | Mz        | .05                | 5.25           |
| 43 | MP2B         | Y         | -78.252            | .25            |
| 44 | MP2B         | My        | -.027              | .25            |
| 45 | MP2B         | Mz        | -.067              | .25            |
| 46 | MP2B         | Y         | -78.252            | 5.25           |
| 47 | MP2B         | My        | -.027              | 5.25           |
| 48 | MP2B         | Mz        | -.067              | 5.25           |
| 49 | MP2B         | Y         | -78.252            | .25            |
| 50 | MP2B         | My        | .072               | .25            |
| 51 | MP2B         | Mz        | .003               | .25            |
| 52 | MP2B         | Y         | -78.252            | 5.25           |
| 53 | MP2B         | My        | .072               | 5.25           |
| 54 | MP2B         | Mz        | .003               | 5.25           |
| 55 | MP4A         | Y         | -35.401            | 1.13           |
| 56 | MP4A         | My        | -.018              | 1.13           |
| 57 | MP4A         | Mz        | 0                  | 1.13           |
| 58 | MP4A         | Y         | -35.401            | 3.13           |
| 59 | MP4A         | My        | -.018              | 3.13           |
| 60 | MP4A         | Mz        | 0                  | 3.13           |
| 61 | MP4B         | Y         | -35.401            | 1.13           |
| 62 | MP4B         | My        | .01                | 1.13           |
| 63 | MP4B         | Mz        | -.015              | 1.13           |
| 64 | MP4B         | Y         | -35.401            | 3.13           |
| 65 | MP4B         | My        | .01                | 3.13           |
| 66 | MP4B         | Mz        | -.015              | 3.13           |
| 67 | MP4C         | Y         | -35.401            | 1.13           |
| 68 | MP4C         | My        | .009               | 1.13           |
| 69 | MP4C         | Mz        | .015               | 1.13           |
| 70 | MP4C         | Y         | -35.401            | 3.13           |
| 71 | MP4C         | My        | .009               | 3.13           |
| 72 | MP4C         | Mz        | .015               | 3.13           |
| 73 | MP1A         | Y         | -44.629            | 2              |
| 74 | MP1A         | My        | .015               | 2              |
| 75 | MP1A         | Mz        | 0                  | 2              |
| 76 | MP1B         | Y         | -44.629            | 2              |
| 77 | MP1B         | My        | -.007              | 2              |
| 78 | MP1B         | Mz        | .013               | 2              |
| 79 | MP1C         | Y         | -44.629            | 2              |
| 80 | MP1C         | My        | -.007              | 2              |
| 81 | MP1C         | Mz        | -.013              | 2              |
| 82 | MP2A         | Y         | -42.499            | 2              |
| 83 | MP2A         | My        | .014               | 2              |
| 84 | MP2A         | Mz        | 0                  | 2              |
| 85 | MP2B         | Y         | -42.499            | 2              |
| 86 | MP2B         | My        | -.007              | 2              |
| 87 | MP2B         | Mz        | .012               | 2              |
| 88 | MP2C         | Y         | -42.499            | 2              |
| 89 | MP2C         | My        | -.007              | 2              |



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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 90  | MP2C         | Mz        | -.012              | 2              |
| 91  | MP2A         | Y         | -10.668            | 5              |
| 92  | MP2A         | My        | .004               | 5              |
| 93  | MP2A         | Mz        | 0                  | 5              |
| 94  | MP2B         | Y         | -10.668            | 5              |
| 95  | MP2B         | My        | -.002              | 5              |
| 96  | MP2B         | Mz        | .003               | 5              |
| 97  | MP2C         | Y         | -10.668            | 5              |
| 98  | MP2C         | My        | -.002              | 5              |
| 99  | MP2C         | Mz        | -.003              | 5              |
| 100 | OVP          | Y         | -87.398            | .75            |
| 101 | OVP          | My        | 0                  | .75            |
| 102 | OVP          | Mz        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 0                  | .25            |
| 2  | MP1A         | Z         | -86.868            | .25            |
| 3  | MP1A         | Mx        | 0                  | .25            |
| 4  | MP1A         | X         | 0                  | 4              |
| 5  | MP1A         | Z         | -86.868            | 4              |
| 6  | MP1A         | Mx        | 0                  | 4              |
| 7  | MP1B         | X         | 0                  | .25            |
| 8  | MP1B         | Z         | -60.289            | .25            |
| 9  | MP1B         | Mx        | .026               | .25            |
| 10 | MP1B         | X         | 0                  | 4              |
| 11 | MP1B         | Z         | -60.289            | 4              |
| 12 | MP1B         | Mx        | .026               | 4              |
| 13 | MP1C         | X         | 0                  | .25            |
| 14 | MP1C         | Z         | -60.289            | .25            |
| 15 | MP1C         | Mx        | -.026              | .25            |
| 16 | MP1C         | X         | 0                  | 4              |
| 17 | MP1C         | Z         | -60.289            | 4              |
| 18 | MP1C         | Mx        | -.026              | 4              |
| 19 | MP2A         | X         | 0                  | .25            |
| 20 | MP2A         | Z         | -164.868           | .25            |
| 21 | MP2A         | Mx        | -.096              | .25            |
| 22 | MP2A         | X         | 0                  | 5.25           |
| 23 | MP2A         | Z         | -164.868           | 5.25           |
| 24 | MP2A         | Mx        | -.096              | 5.25           |
| 25 | MP2C         | X         | 0                  | .25            |
| 26 | MP2C         | Z         | -122.43            | .25            |
| 27 | MP2C         | Mx        | -.017              | .25            |
| 28 | MP2C         | X         | 0                  | 5.25           |
| 29 | MP2C         | Z         | -122.43            | 5.25           |
| 30 | MP2C         | Mx        | -.017              | 5.25           |
| 31 | MP2A         | X         | 0                  | .25            |
| 32 | MP2A         | Z         | -164.868           | .25            |
| 33 | MP2A         | Mx        | .096               | .25            |
| 34 | MP2A         | X         | 0                  | 5.25           |
| 35 | MP2A         | Z         | -164.868           | 5.25           |
| 36 | MP2A         | Mx        | .096               | 5.25           |
| 37 | MP2C         | X         | 0                  | .25            |
| 38 | MP2C         | Z         | -122.43            | .25            |
| 39 | MP2C         | Mx        | -.089              | .25            |
| 40 | MP2C         | X         | 0                  | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 41 | MP2C         | Z         | -122.43            | 5.25           |
| 42 | MP2C         | Mx        | -.089              | 5.25           |
| 43 | MP2B         | X         | 0                  | .25            |
| 44 | MP2B         | Z         | -132.033           | .25            |
| 45 | MP2B         | Mx        | .112               | .25            |
| 46 | MP2B         | X         | 0                  | 5.25           |
| 47 | MP2B         | Z         | -132.033           | 5.25           |
| 48 | MP2B         | Mx        | .112               | 5.25           |
| 49 | MP2B         | X         | 0                  | .25            |
| 50 | MP2B         | Z         | -132.033           | .25            |
| 51 | MP2B         | Mx        | -.004              | .25            |
| 52 | MP2B         | X         | 0                  | 5.25           |
| 53 | MP2B         | Z         | -132.033           | 5.25           |
| 54 | MP2B         | Mx        | -.004              | 5.25           |
| 55 | MP4A         | X         | 0                  | 1.13           |
| 56 | MP4A         | Z         | -85.058            | 1.13           |
| 57 | MP4A         | Mx        | 0                  | 1.13           |
| 58 | MP4A         | X         | 0                  | 3.13           |
| 59 | MP4A         | Z         | -85.058            | 3.13           |
| 60 | MP4A         | Mx        | 0                  | 3.13           |
| 61 | MP4B         | X         | 0                  | 1.13           |
| 62 | MP4B         | Z         | -50.328            | 1.13           |
| 63 | MP4B         | Mx        | .021               | 1.13           |
| 64 | MP4B         | X         | 0                  | 3.13           |
| 65 | MP4B         | Z         | -50.328            | 3.13           |
| 66 | MP4B         | Mx        | .021               | 3.13           |
| 67 | MP4C         | X         | 0                  | 1.13           |
| 68 | MP4C         | Z         | -46.24             | 1.13           |
| 69 | MP4C         | Mx        | -.02               | 1.13           |
| 70 | MP4C         | X         | 0                  | 3.13           |
| 71 | MP4C         | Z         | -46.24             | 3.13           |
| 72 | MP4C         | Mx        | -.02               | 3.13           |
| 73 | MP1A         | X         | 0                  | 2              |
| 74 | MP1A         | Z         | -67.685            | 2              |
| 75 | MP1A         | Mx        | 0                  | 2              |
| 76 | MP1B         | X         | 0                  | 2              |
| 77 | MP1B         | Z         | -50.854            | 2              |
| 78 | MP1B         | Mx        | -.015              | 2              |
| 79 | MP1C         | X         | 0                  | 2              |
| 80 | MP1C         | Z         | -50.854            | 2              |
| 81 | MP1C         | Mx        | .015               | 2              |
| 82 | MP2A         | X         | 0                  | 2              |
| 83 | MP2A         | Z         | -67.685            | 2              |
| 84 | MP2A         | Mx        | 0                  | 2              |
| 85 | MP2B         | X         | 0                  | 2              |
| 86 | MP2B         | Z         | -47.8              | 2              |
| 87 | MP2B         | Mx        | -.014              | 2              |
| 88 | MP2C         | X         | 0                  | 2              |
| 89 | MP2C         | Z         | -47.8              | 2              |
| 90 | MP2C         | Mx        | .014               | 2              |
| 91 | MP2A         | X         | 0                  | 5              |
| 92 | MP2A         | Z         | -13.392            | 5              |
| 93 | MP2A         | Mx        | 0                  | 5              |
| 94 | MP2B         | X         | 0                  | 5              |
| 95 | MP2B         | Z         | -10.297            | 5              |
| 96 | MP2B         | Mx        | -.003              | 5              |
| 97 | MP2C         | X         | 0                  | 5              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 98  | MP2C         | Z         | -10.297            | 5              |
| 99  | MP2C         | Mx        | .003               | 5              |
| 100 | OVP          | X         | 0                  | .75            |
| 101 | OVP          | Z         | -112.114           | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 39.004             | .25            |
| 2  | MP1A         | Z         | -67.557            | .25            |
| 3  | MP1A         | Mx        | -.02               | .25            |
| 4  | MP1A         | X         | 39.004             | 4              |
| 5  | MP1A         | Z         | -67.557            | 4              |
| 6  | MP1A         | Mx        | -.02               | 4              |
| 7  | MP1B         | X         | 25.715             | .25            |
| 8  | MP1B         | Z         | -44.539            | .25            |
| 9  | MP1B         | Mx        | .026               | .25            |
| 10 | MP1B         | X         | 25.715             | 4              |
| 11 | MP1B         | Z         | -44.539            | 4              |
| 12 | MP1B         | Mx        | .026               | 4              |
| 13 | MP1C         | X         | 39.004             | .25            |
| 14 | MP1C         | Z         | -67.557            | .25            |
| 15 | MP1C         | Mx        | -.02               | .25            |
| 16 | MP1C         | X         | 39.004             | 4              |
| 17 | MP1C         | Z         | -67.557            | 4              |
| 18 | MP1C         | Mx        | -.02               | 4              |
| 19 | MP2A         | X         | 75.361             | .25            |
| 20 | MP2A         | Z         | -130.529           | .25            |
| 21 | MP2A         | Mx        | -.114              | .25            |
| 22 | MP2A         | X         | 75.361             | 5.25           |
| 23 | MP2A         | Z         | -130.529           | 5.25           |
| 24 | MP2A         | Mx        | -.114              | 5.25           |
| 25 | MP2C         | X         | 75.361             | .25            |
| 26 | MP2C         | Z         | -130.529           | .25            |
| 27 | MP2C         | Mx        | .038               | .25            |
| 28 | MP2C         | X         | 75.361             | 5.25           |
| 29 | MP2C         | Z         | -130.529           | 5.25           |
| 30 | MP2C         | Mx        | .038               | 5.25           |
| 31 | MP2A         | X         | 75.361             | .25            |
| 32 | MP2A         | Z         | -130.529           | .25            |
| 33 | MP2A         | Mx        | .038               | .25            |
| 34 | MP2A         | X         | 75.361             | 5.25           |
| 35 | MP2A         | Z         | -130.529           | 5.25           |
| 36 | MP2A         | Mx        | .038               | 5.25           |
| 37 | MP2C         | X         | 75.361             | .25            |
| 38 | MP2C         | Z         | -130.529           | .25            |
| 39 | MP2C         | Mx        | -.114              | .25            |
| 40 | MP2C         | X         | 75.361             | 5.25           |
| 41 | MP2C         | Z         | -130.529           | 5.25           |
| 42 | MP2C         | Mx        | -.114              | 5.25           |
| 43 | MP2B         | X         | 48.228             | .25            |
| 44 | MP2B         | Z         | -83.533            | .25            |
| 45 | MP2B         | Mx        | .055               | .25            |
| 46 | MP2B         | X         | 48.228             | 5.25           |
| 47 | MP2B         | Z         | -83.533            | 5.25           |
| 48 | MP2B         | Mx        | .055               | 5.25           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49  | MP2B         | X         | 48.228             | .25            |
| 50  | MP2B         | Z         | -83.533            | .25            |
| 51  | MP2B         | Mx        | .042               | .25            |
| 52  | MP2B         | X         | 48.228             | 5.25           |
| 53  | MP2B         | Z         | -83.533            | 5.25           |
| 54  | MP2B         | Mx        | .042               | 5.25           |
| 55  | MP4A         | X         | 36.059             | 1.13           |
| 56  | MP4A         | Z         | -62.457            | 1.13           |
| 57  | MP4A         | Mx        | -.018              | 1.13           |
| 58  | MP4A         | X         | 36.059             | 3.13           |
| 59  | MP4A         | Z         | -62.457            | 3.13           |
| 60  | MP4A         | Mx        | -.018              | 3.13           |
| 61  | MP4B         | X         | 16.847             | 1.13           |
| 62  | MP4B         | Z         | -29.179            | 1.13           |
| 63  | MP4B         | Mx        | .017               | 1.13           |
| 64  | MP4B         | X         | 16.847             | 3.13           |
| 65  | MP4B         | Z         | -29.179            | 3.13           |
| 66  | MP4B         | Mx        | .017               | 3.13           |
| 67  | MP4C         | X         | 36.059             | 1.13           |
| 68  | MP4C         | Z         | -62.457            | 1.13           |
| 69  | MP4C         | Mx        | -.018              | 1.13           |
| 70  | MP4C         | X         | 36.059             | 3.13           |
| 71  | MP4C         | Z         | -62.457            | 3.13           |
| 72  | MP4C         | Mx        | -.018              | 3.13           |
| 73  | MP1A         | X         | 31.037             | 2              |
| 74  | MP1A         | Z         | -53.758            | 2              |
| 75  | MP1A         | Mx        | .01                | 2              |
| 76  | MP1B         | X         | 22.622             | 2              |
| 77  | MP1B         | Z         | -39.182            | 2              |
| 78  | MP1B         | Mx        | -.015              | 2              |
| 79  | MP1C         | X         | 31.037             | 2              |
| 80  | MP1C         | Z         | -53.758            | 2              |
| 81  | MP1C         | Mx        | .01                | 2              |
| 82  | MP2A         | X         | 30.528             | 2              |
| 83  | MP2A         | Z         | -52.876            | 2              |
| 84  | MP2A         | Mx        | .01                | 2              |
| 85  | MP2B         | X         | 20.586             | 2              |
| 86  | MP2B         | Z         | -35.656            | 2              |
| 87  | MP2B         | Mx        | -.014              | 2              |
| 88  | MP2C         | X         | 30.528             | 2              |
| 89  | MP2C         | Z         | -52.876            | 2              |
| 90  | MP2C         | Mx        | .01                | 2              |
| 91  | MP2A         | X         | 6.18               | 5              |
| 92  | MP2A         | Z         | -10.705            | 5              |
| 93  | MP2A         | Mx        | .002               | 5              |
| 94  | MP2B         | X         | 4.633              | 5              |
| 95  | MP2B         | Z         | -8.025             | 5              |
| 96  | MP2B         | Mx        | -.003              | 5              |
| 97  | MP2C         | X         | 6.18               | 5              |
| 98  | MP2C         | Z         | -10.705            | 5              |
| 99  | MP2C         | Mx        | .002               | 5              |
| 100 | OVP          | X         | 60.412             | .75            |
| 101 | OVP          | Z         | -104.636           | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| RISA-3D Version 17.0.4 [R:\...\Mount Fix\Rev 0\RISA\MOD - 468078-VZW_MT_LO_H.r3d] Page 19 |              |           |                    |                |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 52.212             | .25            |
| 2  | MP1A         | Z         | -30.145            | .25            |
| 3  | MP1A         | Mx        | -.026              | .25            |
| 4  | MP1A         | X         | 52.212             | 4              |
| 5  | MP1A         | Z         | -30.145            | 4              |
| 6  | MP1A         | Mx        | -.026              | 4              |
| 7  | MP1B         | X         | 52.212             | .25            |
| 8  | MP1B         | Z         | -30.145            | .25            |
| 9  | MP1B         | Mx        | .026               | .25            |
| 10 | MP1B         | X         | 52.212             | 4              |
| 11 | MP1B         | Z         | -30.145            | 4              |
| 12 | MP1B         | Mx        | .026               | 4              |
| 13 | MP1C         | X         | 75.23              | .25            |
| 14 | MP1C         | Z         | -43.434            | .25            |
| 15 | MP1C         | Mx        | 0                  | .25            |
| 16 | MP1C         | X         | 75.23              | 4              |
| 17 | MP1C         | Z         | -43.434            | 4              |
| 18 | MP1C         | Mx        | 0                  | 4              |
| 19 | MP2A         | X         | 106.027            | .25            |
| 20 | MP2A         | Z         | -61.215            | .25            |
| 21 | MP2A         | Mx        | -.089              | .25            |
| 22 | MP2A         | X         | 106.027            | 5.25           |
| 23 | MP2A         | Z         | -61.215            | 5.25           |
| 24 | MP2A         | Mx        | -.089              | 5.25           |
| 25 | MP2C         | X         | 142.78             | .25            |
| 26 | MP2C         | Z         | -82.434            | .25            |
| 27 | MP2C         | Mx        | .096               | .25            |
| 28 | MP2C         | X         | 142.78             | 5.25           |
| 29 | MP2C         | Z         | -82.434            | 5.25           |
| 30 | MP2C         | Mx        | .096               | 5.25           |
| 31 | MP2A         | X         | 106.027            | .25            |
| 32 | MP2A         | Z         | -61.215            | .25            |
| 33 | MP2A         | Mx        | -.017              | .25            |
| 34 | MP2A         | X         | 106.027            | 5.25           |
| 35 | MP2A         | Z         | -61.215            | 5.25           |
| 36 | MP2A         | Mx        | -.017              | 5.25           |
| 37 | MP2C         | X         | 142.78             | .25            |
| 38 | MP2C         | Z         | -82.434            | .25            |
| 39 | MP2C         | Mx        | -.096              | .25            |
| 40 | MP2C         | X         | 142.78             | 5.25           |
| 41 | MP2C         | Z         | -82.434            | 5.25           |
| 42 | MP2C         | Mx        | -.096              | 5.25           |
| 43 | MP2B         | X         | 99.927             | .25            |
| 44 | MP2B         | Z         | -57.693            | .25            |
| 45 | MP2B         | Mx        | .015               | .25            |
| 46 | MP2B         | X         | 99.927             | 5.25           |
| 47 | MP2B         | Z         | -57.693            | 5.25           |
| 48 | MP2B         | Mx        | .015               | 5.25           |
| 49 | MP2B         | X         | 99.927             | .25            |
| 50 | MP2B         | Z         | -57.693            | .25            |
| 51 | MP2B         | Mx        | .09                | .25            |
| 52 | MP2B         | X         | 99.927             | 5.25           |
| 53 | MP2B         | Z         | -57.693            | 5.25           |
| 54 | MP2B         | Mx        | .09                | 5.25           |
| 55 | MP4A         | X         | 40.045             | 1.13           |
| 56 | MP4A         | Z         | -23.12             | 1.13           |
| 57 | MP4A         | Mx        | -.02               | 1.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 58  | MP4A         | X         | 40.045             | 3.13           |
| 59  | MP4A         | Z         | -23.12             | 3.13           |
| 60  | MP4A         | Mx        | -.02               | 3.13           |
| 61  | MP4B         | X         | 36.845             | 1.13           |
| 62  | MP4B         | Z         | -21.272            | 1.13           |
| 63  | MP4B         | Mx        | .019               | 1.13           |
| 64  | MP4B         | X         | 36.845             | 3.13           |
| 65  | MP4B         | Z         | -21.272            | 3.13           |
| 66  | MP4B         | Mx        | .019               | 3.13           |
| 67  | MP4C         | X         | 73.663             | 1.13           |
| 68  | MP4C         | Z         | -42.529            | 1.13           |
| 69  | MP4C         | Mx        | 0                  | 1.13           |
| 70  | MP4C         | X         | 73.663             | 3.13           |
| 71  | MP4C         | Z         | -42.529            | 3.13           |
| 72  | MP4C         | Mx        | 0                  | 3.13           |
| 73  | MP1A         | X         | 44.041             | 2              |
| 74  | MP1A         | Z         | -25.427            | 2              |
| 75  | MP1A         | Mx        | .015               | 2              |
| 76  | MP1B         | X         | 44.041             | 2              |
| 77  | MP1B         | Z         | -25.427            | 2              |
| 78  | MP1B         | Mx        | -.015              | 2              |
| 79  | MP1C         | X         | 58.617             | 2              |
| 80  | MP1C         | Z         | -33.842            | 2              |
| 81  | MP1C         | Mx        | 0                  | 2              |
| 82  | MP2A         | X         | 41.396             | 2              |
| 83  | MP2A         | Z         | -23.9              | 2              |
| 84  | MP2A         | Mx        | .014               | 2              |
| 85  | MP2B         | X         | 41.396             | 2              |
| 86  | MP2B         | Z         | -23.9              | 2              |
| 87  | MP2B         | Mx        | -.014              | 2              |
| 88  | MP2C         | X         | 58.617             | 2              |
| 89  | MP2C         | Z         | -33.842            | 2              |
| 90  | MP2C         | Mx        | 0                  | 2              |
| 91  | MP2A         | X         | 8.918              | 5              |
| 92  | MP2A         | Z         | -5.149             | 5              |
| 93  | MP2A         | Mx        | .003               | 5              |
| 94  | MP2B         | X         | 8.918              | 5              |
| 95  | MP2B         | Z         | -5.149             | 5              |
| 96  | MP2B         | Mx        | -.003              | 5              |
| 97  | MP2C         | X         | 11.598             | 5              |
| 98  | MP2C         | Z         | -6.696             | 5              |
| 99  | MP2C         | Mx        | 0                  | 5              |
| 100 | OVP          | X         | 119.721            | .75            |
| 101 | OVP          | Z         | -69.121            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP1A         | X         | 51.429             | .25            |
| 2 | MP1A         | Z         | 0                  | .25            |
| 3 | MP1A         | Mx        | -.026              | .25            |
| 4 | MP1A         | X         | 51.429             | 4              |
| 5 | MP1A         | Z         | 0                  | 4              |
| 6 | MP1A         | Mx        | -.026              | 4              |
| 7 | MP1B         | X         | 78.008             | .25            |
| 8 | MP1B         | Z         | 0                  | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9  | MP1B         | Mx        | .02                | .25            |
| 10 | MP1B         | X         | 78.008             | 4              |
| 11 | MP1B         | Z         | 0                  | 4              |
| 12 | MP1B         | Mx        | .02                | 4              |
| 13 | MP1C         | X         | 78.008             | .25            |
| 14 | MP1C         | Z         | 0                  | .25            |
| 15 | MP1C         | Mx        | .02                | .25            |
| 16 | MP1C         | X         | 78.008             | 4              |
| 17 | MP1C         | Z         | 0                  | 4              |
| 18 | MP1C         | Mx        | .02                | 4              |
| 19 | MP2A         | X         | 108.283            | .25            |
| 20 | MP2A         | Z         | 0                  | .25            |
| 21 | MP2A         | Mx        | -.054              | .25            |
| 22 | MP2A         | X         | 108.283            | 5.25           |
| 23 | MP2A         | Z         | 0                  | 5.25           |
| 24 | MP2A         | Mx        | -.054              | 5.25           |
| 25 | MP2C         | X         | 150.722            | .25            |
| 26 | MP2C         | Z         | 0                  | .25            |
| 27 | MP2C         | Mx        | .114               | .25            |
| 28 | MP2C         | X         | 150.722            | 5.25           |
| 29 | MP2C         | Z         | 0                  | 5.25           |
| 30 | MP2C         | Mx        | .114               | 5.25           |
| 31 | MP2A         | X         | 108.283            | .25            |
| 32 | MP2A         | Z         | 0                  | .25            |
| 33 | MP2A         | Mx        | -.054              | .25            |
| 34 | MP2A         | X         | 108.283            | 5.25           |
| 35 | MP2A         | Z         | 0                  | 5.25           |
| 36 | MP2A         | Mx        | -.054              | 5.25           |
| 37 | MP2C         | X         | 150.722            | .25            |
| 38 | MP2C         | Z         | 0                  | .25            |
| 39 | MP2C         | Mx        | -.038              | .25            |
| 40 | MP2C         | X         | 150.722            | 5.25           |
| 41 | MP2C         | Z         | 0                  | 5.25           |
| 42 | MP2C         | Mx        | -.038              | 5.25           |
| 43 | MP2B         | X         | 169.894            | .25            |
| 44 | MP2B         | Z         | 0                  | .25            |
| 45 | MP2B         | Mx        | -.059              | .25            |
| 46 | MP2B         | X         | 169.894            | 5.25           |
| 47 | MP2B         | Z         | 0                  | 5.25           |
| 48 | MP2B         | Mx        | -.059              | 5.25           |
| 49 | MP2B         | X         | 169.894            | .25            |
| 50 | MP2B         | Z         | 0                  | .25            |
| 51 | MP2B         | Mx        | .156               | .25            |
| 52 | MP2B         | X         | 169.894            | 5.25           |
| 53 | MP2B         | Z         | 0                  | 5.25           |
| 54 | MP2B         | Mx        | .156               | 5.25           |
| 55 | MP4A         | X         | 33.3               | 1.13           |
| 56 | MP4A         | Z         | 0                  | 1.13           |
| 57 | MP4A         | Mx        | -.017              | 1.13           |
| 58 | MP4A         | X         | 33.3               | 3.13           |
| 59 | MP4A         | Z         | 0                  | 3.13           |
| 60 | MP4A         | Mx        | -.017              | 3.13           |
| 61 | MP4B         | X         | 68.03              | 1.13           |
| 62 | MP4B         | Z         | 0                  | 1.13           |
| 63 | MP4B         | Mx        | .02                | 1.13           |
| 64 | MP4B         | X         | 68.03              | 3.13           |
| 65 | MP4B         | Z         | 0                  | 3.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66  | MP4B         | Mx        | .02                | 3.13           |
| 67  | MP4C         | X         | 72.119             | 1.13           |
| 68  | MP4C         | Z         | 0                  | 1.13           |
| 69  | MP4C         | Mx        | .018               | 1.13           |
| 70  | MP4C         | X         | 72.119             | 3.13           |
| 71  | MP4C         | Z         | 0                  | 3.13           |
| 72  | MP4C         | Mx        | .018               | 3.13           |
| 73  | MP1A         | X         | 45.244             | 2              |
| 74  | MP1A         | Z         | 0                  | 2              |
| 75  | MP1A         | Mx        | .015               | 2              |
| 76  | MP1B         | X         | 62.074             | 2              |
| 77  | MP1B         | Z         | 0                  | 2              |
| 78  | MP1B         | Mx        | -.01               | 2              |
| 79  | MP1C         | X         | 62.074             | 2              |
| 80  | MP1C         | Z         | 0                  | 2              |
| 81  | MP1C         | Mx        | -.01               | 2              |
| 82  | MP2A         | X         | 41.172             | 2              |
| 83  | MP2A         | Z         | 0                  | 2              |
| 84  | MP2A         | Mx        | .014               | 2              |
| 85  | MP2B         | X         | 61.057             | 2              |
| 86  | MP2B         | Z         | 0                  | 2              |
| 87  | MP2B         | Mx        | -.01               | 2              |
| 88  | MP2C         | X         | 61.057             | 2              |
| 89  | MP2C         | Z         | 0                  | 2              |
| 90  | MP2C         | Mx        | -.01               | 2              |
| 91  | MP2A         | X         | 9.266              | 5              |
| 92  | MP2A         | Z         | 0                  | 5              |
| 93  | MP2A         | Mx        | .003               | 5              |
| 94  | MP2B         | X         | 12.361             | 5              |
| 95  | MP2B         | Z         | 0                  | 5              |
| 96  | MP2B         | Mx        | -.002              | 5              |
| 97  | MP2C         | X         | 12.361             | 5              |
| 98  | MP2C         | Z         | 0                  | 5              |
| 99  | MP2C         | Mx        | -.002              | 5              |
| 100 | OVP          | X         | 146.952            | .75            |
| 101 | OVP          | Z         | 0                  | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 52.212             | .25            |
| 2  | MP1A         | Z         | 30.145             | .25            |
| 3  | MP1A         | Mx        | -.026              | .25            |
| 4  | MP1A         | X         | 52.212             | 4              |
| 5  | MP1A         | Z         | 30.145             | 4              |
| 6  | MP1A         | Mx        | -.026              | 4              |
| 7  | MP1B         | X         | 75.23              | .25            |
| 8  | MP1B         | Z         | 43.434             | .25            |
| 9  | MP1B         | Mx        | 0                  | .25            |
| 10 | MP1B         | X         | 75.23              | 4              |
| 11 | MP1B         | Z         | 43.434             | 4              |
| 12 | MP1B         | Mx        | 0                  | 4              |
| 13 | MP1C         | X         | 52.212             | .25            |
| 14 | MP1C         | Z         | 30.145             | .25            |
| 15 | MP1C         | Mx        | .026               | .25            |
| 16 | MP1C         | X         | 52.212             | 4              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP1C         | Z         | 30.145             | 4              |
| 18 | MP1C         | Mx        | .026               | 4              |
| 19 | MP2A         | X         | 106.027            | .25            |
| 20 | MP2A         | Z         | 61.215             | .25            |
| 21 | MP2A         | Mx        | -.017              | .25            |
| 22 | MP2A         | X         | 106.027            | 5.25           |
| 23 | MP2A         | Z         | 61.215             | 5.25           |
| 24 | MP2A         | Mx        | -.017              | 5.25           |
| 25 | MP2C         | X         | 106.027            | .25            |
| 26 | MP2C         | Z         | 61.215             | .25            |
| 27 | MP2C         | Mx        | .089               | .25            |
| 28 | MP2C         | X         | 106.027            | 5.25           |
| 29 | MP2C         | Z         | 61.215             | 5.25           |
| 30 | MP2C         | Mx        | .089               | 5.25           |
| 31 | MP2A         | X         | 106.027            | .25            |
| 32 | MP2A         | Z         | 61.215             | .25            |
| 33 | MP2A         | Mx        | -.089              | .25            |
| 34 | MP2A         | X         | 106.027            | 5.25           |
| 35 | MP2A         | Z         | 61.215             | 5.25           |
| 36 | MP2A         | Mx        | -.089              | 5.25           |
| 37 | MP2C         | X         | 106.027            | .25            |
| 38 | MP2C         | Z         | 61.215             | .25            |
| 39 | MP2C         | Mx        | .017               | .25            |
| 40 | MP2C         | X         | 106.027            | 5.25           |
| 41 | MP2C         | Z         | 61.215             | 5.25           |
| 42 | MP2C         | Mx        | .017               | 5.25           |
| 43 | MP2B         | X         | 177.943            | .25            |
| 44 | MP2B         | Z         | 102.735            | .25            |
| 45 | MP2B         | Mx        | -.149              | .25            |
| 46 | MP2B         | X         | 177.943            | 5.25           |
| 47 | MP2B         | Z         | 102.735            | 5.25           |
| 48 | MP2B         | Mx        | -.149              | 5.25           |
| 49 | MP2B         | X         | 177.943            | .25            |
| 50 | MP2B         | Z         | 102.735            | .25            |
| 51 | MP2B         | Mx        | .167               | .25            |
| 52 | MP2B         | X         | 177.943            | 5.25           |
| 53 | MP2B         | Z         | 102.735            | 5.25           |
| 54 | MP2B         | Mx        | .167               | 5.25           |
| 55 | MP4A         | X         | 40.045             | 1.13           |
| 56 | MP4A         | Z         | 23.12              | 1.13           |
| 57 | MP4A         | Mx        | -.02               | 1.13           |
| 58 | MP4A         | X         | 40.045             | 3.13           |
| 59 | MP4A         | Z         | 23.12              | 3.13           |
| 60 | MP4A         | Mx        | -.02               | 3.13           |
| 61 | MP4B         | X         | 73.322             | 1.13           |
| 62 | MP4B         | Z         | 42.333             | 1.13           |
| 63 | MP4B         | Mx        | .004               | 1.13           |
| 64 | MP4B         | X         | 73.322             | 3.13           |
| 65 | MP4B         | Z         | 42.333             | 3.13           |
| 66 | MP4B         | Mx        | .004               | 3.13           |
| 67 | MP4C         | X         | 40.045             | 1.13           |
| 68 | MP4C         | Z         | 23.12              | 1.13           |
| 69 | MP4C         | Mx        | .02                | 1.13           |
| 70 | MP4C         | X         | 40.045             | 3.13           |
| 71 | MP4C         | Z         | 23.12              | 3.13           |
| 72 | MP4C         | Mx        | .02                | 3.13           |
| 73 | MP1A         | X         | 44.041             | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 74  | MP1A         | Z         | 25.427             | 2              |
| 75  | MP1A         | Mx        | .015               | 2              |
| 76  | MP1B         | X         | 58.617             | 2              |
| 77  | MP1B         | Z         | 33.842             | 2              |
| 78  | MP1B         | Mx        | 0                  | 2              |
| 79  | MP1C         | X         | 44.041             | 2              |
| 80  | MP1C         | Z         | 25.427             | 2              |
| 81  | MP1C         | Mx        | -.015              | 2              |
| 82  | MP2A         | X         | 41.396             | 2              |
| 83  | MP2A         | Z         | 23.9               | 2              |
| 84  | MP2A         | Mx        | .014               | 2              |
| 85  | MP2B         | X         | 58.617             | 2              |
| 86  | MP2B         | Z         | 33.842             | 2              |
| 87  | MP2B         | Mx        | 0                  | 2              |
| 88  | MP2C         | X         | 41.396             | 2              |
| 89  | MP2C         | Z         | 23.9               | 2              |
| 90  | MP2C         | Mx        | -.014              | 2              |
| 91  | MP2A         | X         | 8.918              | 5              |
| 92  | MP2A         | Z         | 5.149              | 5              |
| 93  | MP2A         | Mx        | .003               | 5              |
| 94  | MP2B         | X         | 11.598             | 5              |
| 95  | MP2B         | Z         | 6.696              | 5              |
| 96  | MP2B         | Mx        | 0                  | 5              |
| 97  | MP2C         | X         | 8.918              | 5              |
| 98  | MP2C         | Z         | 5.149              | 5              |
| 99  | MP2C         | Mx        | -.003              | 5              |
| 100 | OVP          | X         | 119.721            | .75            |
| 101 | OVP          | Z         | 69.121             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 39.004             | .25            |
| 2  | MP1A         | Z         | 67.557             | .25            |
| 3  | MP1A         | Mx        | -.02               | .25            |
| 4  | MP1A         | X         | 39.004             | 4              |
| 5  | MP1A         | Z         | 67.557             | 4              |
| 6  | MP1A         | Mx        | -.02               | 4              |
| 7  | MP1B         | X         | 39.004             | .25            |
| 8  | MP1B         | Z         | 67.557             | .25            |
| 9  | MP1B         | Mx        | -.02               | .25            |
| 10 | MP1B         | X         | 39.004             | 4              |
| 11 | MP1B         | Z         | 67.557             | 4              |
| 12 | MP1B         | Mx        | -.02               | 4              |
| 13 | MP1C         | X         | 25.715             | .25            |
| 14 | MP1C         | Z         | 44.539             | .25            |
| 15 | MP1C         | Mx        | .026               | .25            |
| 16 | MP1C         | X         | 25.715             | 4              |
| 17 | MP1C         | Z         | 44.539             | 4              |
| 18 | MP1C         | Mx        | .026               | 4              |
| 19 | MP2A         | X         | 75.361             | .25            |
| 20 | MP2A         | Z         | 130.529            | .25            |
| 21 | MP2A         | Mx        | .038               | .25            |
| 22 | MP2A         | X         | 75.361             | 5.25           |
| 23 | MP2A         | Z         | 130.529            | 5.25           |
| 24 | MP2A         | Mx        | .038               | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2C         | X         | 54.142             | .25            |
| 26 | MP2C         | Z         | 93.776             | .25            |
| 27 | MP2C         | Mx        | .054               | .25            |
| 28 | MP2C         | X         | 54.142             | 5.25           |
| 29 | MP2C         | Z         | 93.776             | 5.25           |
| 30 | MP2C         | Mx        | .054               | 5.25           |
| 31 | MP2A         | X         | 75.361             | .25            |
| 32 | MP2A         | Z         | 130.529            | .25            |
| 33 | MP2A         | Mx        | -.114              | .25            |
| 34 | MP2A         | X         | 75.361             | 5.25           |
| 35 | MP2A         | Z         | 130.529            | 5.25           |
| 36 | MP2A         | Mx        | -.114              | 5.25           |
| 37 | MP2C         | X         | 54.142             | .25            |
| 38 | MP2C         | Z         | 93.776             | .25            |
| 39 | MP2C         | Mx        | .054               | .25            |
| 40 | MP2C         | X         | 54.142             | 5.25           |
| 41 | MP2C         | Z         | 93.776             | 5.25           |
| 42 | MP2C         | Mx        | .054               | 5.25           |
| 43 | MP2B         | X         | 93.27              | .25            |
| 44 | MP2B         | Z         | 161.549            | .25            |
| 45 | MP2B         | Mx        | -.17               | .25            |
| 46 | MP2B         | X         | 93.27              | 5.25           |
| 47 | MP2B         | Z         | 161.549            | 5.25           |
| 48 | MP2B         | Mx        | -.17               | 5.25           |
| 49 | MP2B         | X         | 93.27              | .25            |
| 50 | MP2B         | Z         | 161.549            | .25            |
| 51 | MP2B         | Mx        | .091               | .25            |
| 52 | MP2B         | X         | 93.27              | 5.25           |
| 53 | MP2B         | Z         | 161.549            | 5.25           |
| 54 | MP2B         | Mx        | .091               | 5.25           |
| 55 | MP4A         | X         | 36.059             | 1.13           |
| 56 | MP4A         | Z         | 62.457             | 1.13           |
| 57 | MP4A         | Mx        | -.018              | 1.13           |
| 58 | MP4A         | X         | 36.059             | 3.13           |
| 59 | MP4A         | Z         | 62.457             | 3.13           |
| 60 | MP4A         | Mx        | -.018              | 3.13           |
| 61 | MP4B         | X         | 37.907             | 1.13           |
| 62 | MP4B         | Z         | 65.657             | 1.13           |
| 63 | MP4B         | Mx        | -.016              | 1.13           |
| 64 | MP4B         | X         | 37.907             | 3.13           |
| 65 | MP4B         | Z         | 65.657             | 3.13           |
| 66 | MP4B         | Mx        | -.016              | 3.13           |
| 67 | MP4C         | X         | 16.65              | 1.13           |
| 68 | MP4C         | Z         | 28.839             | 1.13           |
| 69 | MP4C         | Mx        | .017               | 1.13           |
| 70 | MP4C         | X         | 16.65              | 3.13           |
| 71 | MP4C         | Z         | 28.839             | 3.13           |
| 72 | MP4C         | Mx        | .017               | 3.13           |
| 73 | MP1A         | X         | 31.037             | 2              |
| 74 | MP1A         | Z         | 53.758             | 2              |
| 75 | MP1A         | Mx        | .01                | 2              |
| 76 | MP1B         | X         | 31.037             | 2              |
| 77 | MP1B         | Z         | 53.758             | 2              |
| 78 | MP1B         | Mx        | .01                | 2              |
| 79 | MP1C         | X         | 22.622             | 2              |
| 80 | MP1C         | Z         | 39.182             | 2              |
| 81 | MP1C         | Mx        | -.015              | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 82  | MP2A         | X         | 30.528             | 2              |
| 83  | MP2A         | Z         | 52.876             | 2              |
| 84  | MP2A         | Mx        | .01                | 2              |
| 85  | MP2B         | X         | 30.528             | 2              |
| 86  | MP2B         | Z         | 52.876             | 2              |
| 87  | MP2B         | Mx        | .01                | 2              |
| 88  | MP2C         | X         | 20.586             | 2              |
| 89  | MP2C         | Z         | 35.656             | 2              |
| 90  | MP2C         | Mx        | -.014              | 2              |
| 91  | MP2A         | X         | 6.18               | 5              |
| 92  | MP2A         | Z         | 10.705             | 5              |
| 93  | MP2A         | Mx        | .002               | 5              |
| 94  | MP2B         | X         | 6.18               | 5              |
| 95  | MP2B         | Z         | 10.705             | 5              |
| 96  | MP2B         | Mx        | .002               | 5              |
| 97  | MP2C         | X         | 4.633              | 5              |
| 98  | MP2C         | Z         | 8.025              | 5              |
| 99  | MP2C         | Mx        | -.003              | 5              |
| 100 | OVP          | X         | 60.412             | .75            |
| 101 | OVP          | Z         | 104.636            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 0                  | .25            |
| 2  | MP1A         | Z         | 86.868             | .25            |
| 3  | MP1A         | Mx        | 0                  | .25            |
| 4  | MP1A         | X         | 0                  | 4              |
| 5  | MP1A         | Z         | 86.868             | 4              |
| 6  | MP1A         | Mx        | 0                  | 4              |
| 7  | MP1B         | X         | 0                  | .25            |
| 8  | MP1B         | Z         | 60.289             | .25            |
| 9  | MP1B         | Mx        | -.026              | .25            |
| 10 | MP1B         | X         | 0                  | 4              |
| 11 | MP1B         | Z         | 60.289             | 4              |
| 12 | MP1B         | Mx        | -.026              | 4              |
| 13 | MP1C         | X         | 0                  | .25            |
| 14 | MP1C         | Z         | 60.289             | .25            |
| 15 | MP1C         | Mx        | .026               | .25            |
| 16 | MP1C         | X         | 0                  | 4              |
| 17 | MP1C         | Z         | 60.289             | 4              |
| 18 | MP1C         | Mx        | .026               | 4              |
| 19 | MP2A         | X         | 0                  | .25            |
| 20 | MP2A         | Z         | 164.868            | .25            |
| 21 | MP2A         | Mx        | .096               | .25            |
| 22 | MP2A         | X         | 0                  | 5.25           |
| 23 | MP2A         | Z         | 164.868            | 5.25           |
| 24 | MP2A         | Mx        | .096               | 5.25           |
| 25 | MP2C         | X         | 0                  | .25            |
| 26 | MP2C         | Z         | 122.43             | .25            |
| 27 | MP2C         | Mx        | .017               | .25            |
| 28 | MP2C         | X         | 0                  | 5.25           |
| 29 | MP2C         | Z         | 122.43             | 5.25           |
| 30 | MP2C         | Mx        | .017               | 5.25           |
| 31 | MP2A         | X         | 0                  | .25            |
| 32 | MP2A         | Z         | 164.868            | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A         | Mx        | -.096              | .25            |
| 34 | MP2A         | X         | 0                  | 5.25           |
| 35 | MP2A         | Z         | 164.868            | 5.25           |
| 36 | MP2A         | Mx        | -.096              | 5.25           |
| 37 | MP2C         | X         | 0                  | .25            |
| 38 | MP2C         | Z         | 122.43             | .25            |
| 39 | MP2C         | Mx        | .089               | .25            |
| 40 | MP2C         | X         | 0                  | 5.25           |
| 41 | MP2C         | Z         | 122.43             | 5.25           |
| 42 | MP2C         | Mx        | .089               | 5.25           |
| 43 | MP2B         | X         | 0                  | .25            |
| 44 | MP2B         | Z         | 132.033            | .25            |
| 45 | MP2B         | Mx        | -.112              | .25            |
| 46 | MP2B         | X         | 0                  | 5.25           |
| 47 | MP2B         | Z         | 132.033            | 5.25           |
| 48 | MP2B         | Mx        | -.112              | 5.25           |
| 49 | MP2B         | X         | 0                  | .25            |
| 50 | MP2B         | Z         | 132.033            | .25            |
| 51 | MP2B         | Mx        | .004               | .25            |
| 52 | MP2B         | X         | 0                  | 5.25           |
| 53 | MP2B         | Z         | 132.033            | 5.25           |
| 54 | MP2B         | Mx        | .004               | 5.25           |
| 55 | MP4A         | X         | 0                  | 1.13           |
| 56 | MP4A         | Z         | 85.058             | 1.13           |
| 57 | MP4A         | Mx        | 0                  | 1.13           |
| 58 | MP4A         | X         | 0                  | 3.13           |
| 59 | MP4A         | Z         | 85.058             | 3.13           |
| 60 | MP4A         | Mx        | 0                  | 3.13           |
| 61 | MP4B         | X         | 0                  | 1.13           |
| 62 | MP4B         | Z         | 50.328             | 1.13           |
| 63 | MP4B         | Mx        | -.021              | 1.13           |
| 64 | MP4B         | X         | 0                  | 3.13           |
| 65 | MP4B         | Z         | 50.328             | 3.13           |
| 66 | MP4B         | Mx        | -.021              | 3.13           |
| 67 | MP4C         | X         | 0                  | 1.13           |
| 68 | MP4C         | Z         | 46.24              | 1.13           |
| 69 | MP4C         | Mx        | .02                | 1.13           |
| 70 | MP4C         | X         | 0                  | 3.13           |
| 71 | MP4C         | Z         | 46.24              | 3.13           |
| 72 | MP4C         | Mx        | .02                | 3.13           |
| 73 | MP1A         | X         | 0                  | 2              |
| 74 | MP1A         | Z         | 67.685             | 2              |
| 75 | MP1A         | Mx        | 0                  | 2              |
| 76 | MP1B         | X         | 0                  | 2              |
| 77 | MP1B         | Z         | 50.854             | 2              |
| 78 | MP1B         | Mx        | .015               | 2              |
| 79 | MP1C         | X         | 0                  | 2              |
| 80 | MP1C         | Z         | 50.854             | 2              |
| 81 | MP1C         | Mx        | -.015              | 2              |
| 82 | MP2A         | X         | 0                  | 2              |
| 83 | MP2A         | Z         | 67.685             | 2              |
| 84 | MP2A         | Mx        | 0                  | 2              |
| 85 | MP2B         | X         | 0                  | 2              |
| 86 | MP2B         | Z         | 47.8               | 2              |
| 87 | MP2B         | Mx        | .014               | 2              |
| 88 | MP2C         | X         | 0                  | 2              |
| 89 | MP2C         | Z         | 47.8               | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 90  | MP2C         | Mx        | -.014              | 2              |
| 91  | MP2A         | X         | 0                  | 5              |
| 92  | MP2A         | Z         | 13.392             | 5              |
| 93  | MP2A         | Mx        | 0                  | 5              |
| 94  | MP2B         | X         | 0                  | 5              |
| 95  | MP2B         | Z         | 10.297             | 5              |
| 96  | MP2B         | Mx        | .003               | 5              |
| 97  | MP2C         | X         | 0                  | 5              |
| 98  | MP2C         | Z         | 10.297             | 5              |
| 99  | MP2C         | Mx        | -.003              | 5              |
| 100 | OVP          | X         | 0                  | .75            |
| 101 | OVP          | Z         | 112.114            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -39.004            | .25            |
| 2  | MP1A         | Z         | 67.557             | .25            |
| 3  | MP1A         | Mx        | .02                | .25            |
| 4  | MP1A         | X         | -39.004            | 4              |
| 5  | MP1A         | Z         | 67.557             | 4              |
| 6  | MP1A         | Mx        | .02                | 4              |
| 7  | MP1B         | X         | -25.715            | .25            |
| 8  | MP1B         | Z         | 44.539             | .25            |
| 9  | MP1B         | Mx        | -.026              | .25            |
| 10 | MP1B         | X         | -25.715            | 4              |
| 11 | MP1B         | Z         | 44.539             | 4              |
| 12 | MP1B         | Mx        | -.026              | 4              |
| 13 | MP1C         | X         | -39.004            | .25            |
| 14 | MP1C         | Z         | 67.557             | .25            |
| 15 | MP1C         | Mx        | .02                | .25            |
| 16 | MP1C         | X         | -39.004            | 4              |
| 17 | MP1C         | Z         | 67.557             | 4              |
| 18 | MP1C         | Mx        | .02                | 4              |
| 19 | MP2A         | X         | -75.361            | .25            |
| 20 | MP2A         | Z         | 130.529            | .25            |
| 21 | MP2A         | Mx        | .114               | .25            |
| 22 | MP2A         | X         | -75.361            | 5.25           |
| 23 | MP2A         | Z         | 130.529            | 5.25           |
| 24 | MP2A         | Mx        | .114               | 5.25           |
| 25 | MP2C         | X         | -75.361            | .25            |
| 26 | MP2C         | Z         | 130.529            | .25            |
| 27 | MP2C         | Mx        | -.038              | .25            |
| 28 | MP2C         | X         | -75.361            | 5.25           |
| 29 | MP2C         | Z         | 130.529            | 5.25           |
| 30 | MP2C         | Mx        | -.038              | 5.25           |
| 31 | MP2A         | X         | -75.361            | .25            |
| 32 | MP2A         | Z         | 130.529            | .25            |
| 33 | MP2A         | Mx        | -.038              | .25            |
| 34 | MP2A         | X         | -75.361            | 5.25           |
| 35 | MP2A         | Z         | 130.529            | 5.25           |
| 36 | MP2A         | Mx        | -.038              | 5.25           |
| 37 | MP2C         | X         | -75.361            | .25            |
| 38 | MP2C         | Z         | 130.529            | .25            |
| 39 | MP2C         | Mx        | .114               | .25            |
| 40 | MP2C         | X         | -75.361            | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 41 | MP2C         | Z         | 130.529            | 5.25           |
| 42 | MP2C         | Mx        | .114               | 5.25           |
| 43 | MP2B         | X         | -48.228            | .25            |
| 44 | MP2B         | Z         | 83.533             | .25            |
| 45 | MP2B         | Mx        | -.055              | .25            |
| 46 | MP2B         | X         | -48.228            | 5.25           |
| 47 | MP2B         | Z         | 83.533             | 5.25           |
| 48 | MP2B         | Mx        | -.055              | 5.25           |
| 49 | MP2B         | X         | -48.228            | .25            |
| 50 | MP2B         | Z         | 83.533             | .25            |
| 51 | MP2B         | Mx        | -.042              | .25            |
| 52 | MP2B         | X         | -48.228            | 5.25           |
| 53 | MP2B         | Z         | 83.533             | 5.25           |
| 54 | MP2B         | Mx        | -.042              | 5.25           |
| 55 | MP4A         | X         | -36.059            | 1.13           |
| 56 | MP4A         | Z         | 62.457             | 1.13           |
| 57 | MP4A         | Mx        | .018               | 1.13           |
| 58 | MP4A         | X         | -36.059            | 3.13           |
| 59 | MP4A         | Z         | 62.457             | 3.13           |
| 60 | MP4A         | Mx        | .018               | 3.13           |
| 61 | MP4B         | X         | -16.847            | 1.13           |
| 62 | MP4B         | Z         | 29.179             | 1.13           |
| 63 | MP4B         | Mx        | -.017              | 1.13           |
| 64 | MP4B         | X         | -16.847            | 3.13           |
| 65 | MP4B         | Z         | 29.179             | 3.13           |
| 66 | MP4B         | Mx        | -.017              | 3.13           |
| 67 | MP4C         | X         | -36.059            | 1.13           |
| 68 | MP4C         | Z         | 62.457             | 1.13           |
| 69 | MP4C         | Mx        | .018               | 1.13           |
| 70 | MP4C         | X         | -36.059            | 3.13           |
| 71 | MP4C         | Z         | 62.457             | 3.13           |
| 72 | MP4C         | Mx        | .018               | 3.13           |
| 73 | MP1A         | X         | -31.037            | 2              |
| 74 | MP1A         | Z         | 53.758             | 2              |
| 75 | MP1A         | Mx        | -.01               | 2              |
| 76 | MP1B         | X         | -22.622            | 2              |
| 77 | MP1B         | Z         | 39.182             | 2              |
| 78 | MP1B         | Mx        | .015               | 2              |
| 79 | MP1C         | X         | -31.037            | 2              |
| 80 | MP1C         | Z         | 53.758             | 2              |
| 81 | MP1C         | Mx        | -.01               | 2              |
| 82 | MP2A         | X         | -30.528            | 2              |
| 83 | MP2A         | Z         | 52.876             | 2              |
| 84 | MP2A         | Mx        | -.01               | 2              |
| 85 | MP2B         | X         | -20.586            | 2              |
| 86 | MP2B         | Z         | 35.656             | 2              |
| 87 | MP2B         | Mx        | .014               | 2              |
| 88 | MP2C         | X         | -30.528            | 2              |
| 89 | MP2C         | Z         | 52.876             | 2              |
| 90 | MP2C         | Mx        | -.01               | 2              |
| 91 | MP2A         | X         | -6.18              | 5              |
| 92 | MP2A         | Z         | 10.705             | 5              |
| 93 | MP2A         | Mx        | -.002              | 5              |
| 94 | MP2B         | X         | -4.633             | 5              |
| 95 | MP2B         | Z         | 8.025              | 5              |
| 96 | MP2B         | Mx        | .003               | 5              |
| 97 | MP2C         | X         | -6.18              | 5              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 98  | MP2C         | Z         | 10.705             | 5              |
| 99  | MP2C         | Mx        | -.002              | 5              |
| 100 | OVP          | X         | -60.412            | .75            |
| 101 | OVP          | Z         | 104.636            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -52.212            | .25            |
| 2  | MP1A         | Z         | 30.145             | .25            |
| 3  | MP1A         | Mx        | .026               | .25            |
| 4  | MP1A         | X         | -52.212            | 4              |
| 5  | MP1A         | Z         | 30.145             | 4              |
| 6  | MP1A         | Mx        | .026               | 4              |
| 7  | MP1B         | X         | -52.212            | .25            |
| 8  | MP1B         | Z         | 30.145             | .25            |
| 9  | MP1B         | Mx        | -.026              | .25            |
| 10 | MP1B         | X         | -52.212            | 4              |
| 11 | MP1B         | Z         | 30.145             | 4              |
| 12 | MP1B         | Mx        | -.026              | 4              |
| 13 | MP1C         | X         | -75.23             | .25            |
| 14 | MP1C         | Z         | 43.434             | .25            |
| 15 | MP1C         | Mx        | 0                  | .25            |
| 16 | MP1C         | X         | -75.23             | 4              |
| 17 | MP1C         | Z         | 43.434             | 4              |
| 18 | MP1C         | Mx        | 0                  | 4              |
| 19 | MP2A         | X         | -106.027           | .25            |
| 20 | MP2A         | Z         | 61.215             | .25            |
| 21 | MP2A         | Mx        | .089               | .25            |
| 22 | MP2A         | X         | -106.027           | 5.25           |
| 23 | MP2A         | Z         | 61.215             | 5.25           |
| 24 | MP2A         | Mx        | .089               | 5.25           |
| 25 | MP2C         | X         | -142.78            | .25            |
| 26 | MP2C         | Z         | 82.434             | .25            |
| 27 | MP2C         | Mx        | -.096              | .25            |
| 28 | MP2C         | X         | -142.78            | 5.25           |
| 29 | MP2C         | Z         | 82.434             | 5.25           |
| 30 | MP2C         | Mx        | -.096              | 5.25           |
| 31 | MP2A         | X         | -106.027           | .25            |
| 32 | MP2A         | Z         | 61.215             | .25            |
| 33 | MP2A         | Mx        | .017               | .25            |
| 34 | MP2A         | X         | -106.027           | 5.25           |
| 35 | MP2A         | Z         | 61.215             | 5.25           |
| 36 | MP2A         | Mx        | .017               | 5.25           |
| 37 | MP2C         | X         | -142.78            | .25            |
| 38 | MP2C         | Z         | 82.434             | .25            |
| 39 | MP2C         | Mx        | .096               | .25            |
| 40 | MP2C         | X         | -142.78            | 5.25           |
| 41 | MP2C         | Z         | 82.434             | 5.25           |
| 42 | MP2C         | Mx        | .096               | 5.25           |
| 43 | MP2B         | X         | -99.927            | .25            |
| 44 | MP2B         | Z         | 57.693             | .25            |
| 45 | MP2B         | Mx        | -.015              | .25            |
| 46 | MP2B         | X         | -99.927            | 5.25           |
| 47 | MP2B         | Z         | 57.693             | 5.25           |
| 48 | MP2B         | Mx        | -.015              | 5.25           |



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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49  | MP2B         | X         | -99.927            | .25            |
| 50  | MP2B         | Z         | 57.693             | .25            |
| 51  | MP2B         | Mx        | -.09               | .25            |
| 52  | MP2B         | X         | -99.927            | 5.25           |
| 53  | MP2B         | Z         | 57.693             | 5.25           |
| 54  | MP2B         | Mx        | -.09               | 5.25           |
| 55  | MP4A         | X         | -40.045            | 1.13           |
| 56  | MP4A         | Z         | 23.12              | 1.13           |
| 57  | MP4A         | Mx        | .02                | 1.13           |
| 58  | MP4A         | X         | -40.045            | 3.13           |
| 59  | MP4A         | Z         | 23.12              | 3.13           |
| 60  | MP4A         | Mx        | .02                | 3.13           |
| 61  | MP4B         | X         | -36.845            | 1.13           |
| 62  | MP4B         | Z         | 21.272             | 1.13           |
| 63  | MP4B         | Mx        | -.019              | 1.13           |
| 64  | MP4B         | X         | -36.845            | 3.13           |
| 65  | MP4B         | Z         | 21.272             | 3.13           |
| 66  | MP4B         | Mx        | -.019              | 3.13           |
| 67  | MP4C         | X         | -73.663            | 1.13           |
| 68  | MP4C         | Z         | 42.529             | 1.13           |
| 69  | MP4C         | Mx        | 0                  | 1.13           |
| 70  | MP4C         | X         | -73.663            | 3.13           |
| 71  | MP4C         | Z         | 42.529             | 3.13           |
| 72  | MP4C         | Mx        | 0                  | 3.13           |
| 73  | MP1A         | X         | -44.041            | 2              |
| 74  | MP1A         | Z         | 25.427             | 2              |
| 75  | MP1A         | Mx        | -.015              | 2              |
| 76  | MP1B         | X         | -44.041            | 2              |
| 77  | MP1B         | Z         | 25.427             | 2              |
| 78  | MP1B         | Mx        | .015               | 2              |
| 79  | MP1C         | X         | -58.617            | 2              |
| 80  | MP1C         | Z         | 33.842             | 2              |
| 81  | MP1C         | Mx        | 0                  | 2              |
| 82  | MP2A         | X         | -41.396            | 2              |
| 83  | MP2A         | Z         | 23.9               | 2              |
| 84  | MP2A         | Mx        | -.014              | 2              |
| 85  | MP2B         | X         | -41.396            | 2              |
| 86  | MP2B         | Z         | 23.9               | 2              |
| 87  | MP2B         | Mx        | .014               | 2              |
| 88  | MP2C         | X         | -58.617            | 2              |
| 89  | MP2C         | Z         | 33.842             | 2              |
| 90  | MP2C         | Mx        | 0                  | 2              |
| 91  | MP2A         | X         | -8.918             | 5              |
| 92  | MP2A         | Z         | 5.149              | 5              |
| 93  | MP2A         | Mx        | -.003              | 5              |
| 94  | MP2B         | X         | -8.918             | 5              |
| 95  | MP2B         | Z         | 5.149              | 5              |
| 96  | MP2B         | Mx        | .003               | 5              |
| 97  | MP2C         | X         | -11.598            | 5              |
| 98  | MP2C         | Z         | 6.696              | 5              |
| 99  | MP2C         | Mx        | 0                  | 5              |
| 100 | OVP          | X         | -119.721           | .75            |
| 101 | OVP          | Z         | 69.121             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

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

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -51.429            | .25            |
| 2  | MP1A         | Z         | 0                  | .25            |
| 3  | MP1A         | Mx        | .026               | .25            |
| 4  | MP1A         | X         | -51.429            | 4              |
| 5  | MP1A         | Z         | 0                  | 4              |
| 6  | MP1A         | Mx        | .026               | 4              |
| 7  | MP1B         | X         | -78.008            | .25            |
| 8  | MP1B         | Z         | 0                  | .25            |
| 9  | MP1B         | Mx        | -.02               | .25            |
| 10 | MP1B         | X         | -78.008            | 4              |
| 11 | MP1B         | Z         | 0                  | 4              |
| 12 | MP1B         | Mx        | -.02               | 4              |
| 13 | MP1C         | X         | -78.008            | .25            |
| 14 | MP1C         | Z         | 0                  | .25            |
| 15 | MP1C         | Mx        | -.02               | .25            |
| 16 | MP1C         | X         | -78.008            | 4              |
| 17 | MP1C         | Z         | 0                  | 4              |
| 18 | MP1C         | Mx        | -.02               | 4              |
| 19 | MP2A         | X         | -108.283           | .25            |
| 20 | MP2A         | Z         | 0                  | .25            |
| 21 | MP2A         | Mx        | .054               | .25            |
| 22 | MP2A         | X         | -108.283           | 5.25           |
| 23 | MP2A         | Z         | 0                  | 5.25           |
| 24 | MP2A         | Mx        | .054               | 5.25           |
| 25 | MP2C         | X         | -150.722           | .25            |
| 26 | MP2C         | Z         | 0                  | .25            |
| 27 | MP2C         | Mx        | -.114              | .25            |
| 28 | MP2C         | X         | -150.722           | 5.25           |
| 29 | MP2C         | Z         | 0                  | 5.25           |
| 30 | MP2C         | Mx        | -.114              | 5.25           |
| 31 | MP2A         | X         | -108.283           | .25            |
| 32 | MP2A         | Z         | 0                  | .25            |
| 33 | MP2A         | Mx        | .054               | .25            |
| 34 | MP2A         | X         | -108.283           | 5.25           |
| 35 | MP2A         | Z         | 0                  | 5.25           |
| 36 | MP2A         | Mx        | .054               | 5.25           |
| 37 | MP2C         | X         | -150.722           | .25            |
| 38 | MP2C         | Z         | 0                  | .25            |
| 39 | MP2C         | Mx        | .038               | .25            |
| 40 | MP2C         | X         | -150.722           | 5.25           |
| 41 | MP2C         | Z         | 0                  | 5.25           |
| 42 | MP2C         | Mx        | .038               | 5.25           |
| 43 | MP2B         | X         | -169.894           | .25            |
| 44 | MP2B         | Z         | 0                  | .25            |
| 45 | MP2B         | Mx        | .059               | .25            |
| 46 | MP2B         | X         | -169.894           | 5.25           |
| 47 | MP2B         | Z         | 0                  | 5.25           |
| 48 | MP2B         | Mx        | .059               | 5.25           |
| 49 | MP2B         | X         | -169.894           | .25            |
| 50 | MP2B         | Z         | 0                  | .25            |
| 51 | MP2B         | Mx        | -.156              | .25            |
| 52 | MP2B         | X         | -169.894           | 5.25           |
| 53 | MP2B         | Z         | 0                  | 5.25           |
| 54 | MP2B         | Mx        | -.156              | 5.25           |
| 55 | MP4A         | X         | -33.3              | 1.13           |
| 56 | MP4A         | Z         | 0                  | 1.13           |
| 57 | MP4A         | Mx        | .017               | 1.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 58  | MP4A         | X         | -33.3              | 3.13           |
| 59  | MP4A         | Z         | 0                  | 3.13           |
| 60  | MP4A         | Mx        | .017               | 3.13           |
| 61  | MP4B         | X         | -68.03             | 1.13           |
| 62  | MP4B         | Z         | 0                  | 1.13           |
| 63  | MP4B         | Mx        | -.02               | 1.13           |
| 64  | MP4B         | X         | -68.03             | 3.13           |
| 65  | MP4B         | Z         | 0                  | 3.13           |
| 66  | MP4B         | Mx        | -.02               | 3.13           |
| 67  | MP4C         | X         | -72.119            | 1.13           |
| 68  | MP4C         | Z         | 0                  | 1.13           |
| 69  | MP4C         | Mx        | -.018              | 1.13           |
| 70  | MP4C         | X         | -72.119            | 3.13           |
| 71  | MP4C         | Z         | 0                  | 3.13           |
| 72  | MP4C         | Mx        | -.018              | 3.13           |
| 73  | MP1A         | X         | -45.244            | 2              |
| 74  | MP1A         | Z         | 0                  | 2              |
| 75  | MP1A         | Mx        | -.015              | 2              |
| 76  | MP1B         | X         | -62.074            | 2              |
| 77  | MP1B         | Z         | 0                  | 2              |
| 78  | MP1B         | Mx        | .01                | 2              |
| 79  | MP1C         | X         | -62.074            | 2              |
| 80  | MP1C         | Z         | 0                  | 2              |
| 81  | MP1C         | Mx        | .01                | 2              |
| 82  | MP2A         | X         | -41.172            | 2              |
| 83  | MP2A         | Z         | 0                  | 2              |
| 84  | MP2A         | Mx        | -.014              | 2              |
| 85  | MP2B         | X         | -61.057            | 2              |
| 86  | MP2B         | Z         | 0                  | 2              |
| 87  | MP2B         | Mx        | .01                | 2              |
| 88  | MP2C         | X         | -61.057            | 2              |
| 89  | MP2C         | Z         | 0                  | 2              |
| 90  | MP2C         | Mx        | .01                | 2              |
| 91  | MP2A         | X         | -9.266             | 5              |
| 92  | MP2A         | Z         | 0                  | 5              |
| 93  | MP2A         | Mx        | -.003              | 5              |
| 94  | MP2B         | X         | -12.361            | 5              |
| 95  | MP2B         | Z         | 0                  | 5              |
| 96  | MP2B         | Mx        | .002               | 5              |
| 97  | MP2C         | X         | -12.361            | 5              |
| 98  | MP2C         | Z         | 0                  | 5              |
| 99  | MP2C         | Mx        | .002               | 5              |
| 100 | OVP          | X         | -146.952           | .75            |
| 101 | OVP          | Z         | 0                  | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP1A         | X         | -52.212            | .25            |
| 2 | MP1A         | Z         | -30.145            | .25            |
| 3 | MP1A         | Mx        | .026               | .25            |
| 4 | MP1A         | X         | -52.212            | 4              |
| 5 | MP1A         | Z         | -30.145            | 4              |
| 6 | MP1A         | Mx        | .026               | 4              |
| 7 | MP1B         | X         | -75.23             | .25            |
| 8 | MP1B         | Z         | -43.434            | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9  | MP1B         | Mx        | 0                  | .25            |
| 10 | MP1B         | X         | -75.23             | 4              |
| 11 | MP1B         | Z         | -43.434            | 4              |
| 12 | MP1B         | Mx        | 0                  | 4              |
| 13 | MP1C         | X         | -52.212            | .25            |
| 14 | MP1C         | Z         | -30.145            | .25            |
| 15 | MP1C         | Mx        | -.026              | .25            |
| 16 | MP1C         | X         | -52.212            | 4              |
| 17 | MP1C         | Z         | -30.145            | 4              |
| 18 | MP1C         | Mx        | -.026              | 4              |
| 19 | MP2A         | X         | -106.027           | .25            |
| 20 | MP2A         | Z         | -61.215            | .25            |
| 21 | MP2A         | Mx        | .017               | .25            |
| 22 | MP2A         | X         | -106.027           | 5.25           |
| 23 | MP2A         | Z         | -61.215            | 5.25           |
| 24 | MP2A         | Mx        | .017               | 5.25           |
| 25 | MP2C         | X         | -106.027           | .25            |
| 26 | MP2C         | Z         | -61.215            | .25            |
| 27 | MP2C         | Mx        | -.089              | .25            |
| 28 | MP2C         | X         | -106.027           | 5.25           |
| 29 | MP2C         | Z         | -61.215            | 5.25           |
| 30 | MP2C         | Mx        | -.089              | 5.25           |
| 31 | MP2A         | X         | -106.027           | .25            |
| 32 | MP2A         | Z         | -61.215            | .25            |
| 33 | MP2A         | Mx        | .089               | .25            |
| 34 | MP2A         | X         | -106.027           | 5.25           |
| 35 | MP2A         | Z         | -61.215            | 5.25           |
| 36 | MP2A         | Mx        | .089               | 5.25           |
| 37 | MP2C         | X         | -106.027           | .25            |
| 38 | MP2C         | Z         | -61.215            | .25            |
| 39 | MP2C         | Mx        | -.017              | .25            |
| 40 | MP2C         | X         | -106.027           | 5.25           |
| 41 | MP2C         | Z         | -61.215            | 5.25           |
| 42 | MP2C         | Mx        | -.017              | 5.25           |
| 43 | MP2B         | X         | -177.943           | .25            |
| 44 | MP2B         | Z         | -102.735           | .25            |
| 45 | MP2B         | Mx        | .149               | .25            |
| 46 | MP2B         | X         | -177.943           | 5.25           |
| 47 | MP2B         | Z         | -102.735           | 5.25           |
| 48 | MP2B         | Mx        | .149               | 5.25           |
| 49 | MP2B         | X         | -177.943           | .25            |
| 50 | MP2B         | Z         | -102.735           | .25            |
| 51 | MP2B         | Mx        | -.167              | .25            |
| 52 | MP2B         | X         | -177.943           | 5.25           |
| 53 | MP2B         | Z         | -102.735           | 5.25           |
| 54 | MP2B         | Mx        | -.167              | 5.25           |
| 55 | MP4A         | X         | -40.045            | 1.13           |
| 56 | MP4A         | Z         | -23.12             | 1.13           |
| 57 | MP4A         | Mx        | .02                | 1.13           |
| 58 | MP4A         | X         | -40.045            | 3.13           |
| 59 | MP4A         | Z         | -23.12             | 3.13           |
| 60 | MP4A         | Mx        | .02                | 3.13           |
| 61 | MP4B         | X         | -73.322            | 1.13           |
| 62 | MP4B         | Z         | -42.333            | 1.13           |
| 63 | MP4B         | Mx        | -.004              | 1.13           |
| 64 | MP4B         | X         | -73.322            | 3.13           |
| 65 | MP4B         | Z         | -42.333            | 3.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66  | MP4B         | Mx        | -.004              | 3.13           |
| 67  | MP4C         | X         | -40.045            | 1.13           |
| 68  | MP4C         | Z         | -23.12             | 1.13           |
| 69  | MP4C         | Mx        | -.02               | 1.13           |
| 70  | MP4C         | X         | -40.045            | 3.13           |
| 71  | MP4C         | Z         | -23.12             | 3.13           |
| 72  | MP4C         | Mx        | -.02               | 3.13           |
| 73  | MP1A         | X         | -44.041            | 2              |
| 74  | MP1A         | Z         | -25.427            | 2              |
| 75  | MP1A         | Mx        | -.015              | 2              |
| 76  | MP1B         | X         | -58.617            | 2              |
| 77  | MP1B         | Z         | -33.842            | 2              |
| 78  | MP1B         | Mx        | 0                  | 2              |
| 79  | MP1C         | X         | -44.041            | 2              |
| 80  | MP1C         | Z         | -25.427            | 2              |
| 81  | MP1C         | Mx        | .015               | 2              |
| 82  | MP2A         | X         | -41.396            | 2              |
| 83  | MP2A         | Z         | -23.9              | 2              |
| 84  | MP2A         | Mx        | -.014              | 2              |
| 85  | MP2B         | X         | -58.617            | 2              |
| 86  | MP2B         | Z         | -33.842            | 2              |
| 87  | MP2B         | Mx        | 0                  | 2              |
| 88  | MP2C         | X         | -41.396            | 2              |
| 89  | MP2C         | Z         | -23.9              | 2              |
| 90  | MP2C         | Mx        | .014               | 2              |
| 91  | MP2A         | X         | -8.918             | 5              |
| 92  | MP2A         | Z         | -5.149             | 5              |
| 93  | MP2A         | Mx        | -.003              | 5              |
| 94  | MP2B         | X         | -11.598            | 5              |
| 95  | MP2B         | Z         | -6.696             | 5              |
| 96  | MP2B         | Mx        | 0                  | 5              |
| 97  | MP2C         | X         | -8.918             | 5              |
| 98  | MP2C         | Z         | -5.149             | 5              |
| 99  | MP2C         | Mx        | .003               | 5              |
| 100 | OVP          | X         | -119.721           | .75            |
| 101 | OVP          | Z         | -69.121            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -39.004            | .25            |
| 2  | MP1A         | Z         | -67.557            | .25            |
| 3  | MP1A         | Mx        | .02                | .25            |
| 4  | MP1A         | X         | -39.004            | 4              |
| 5  | MP1A         | Z         | -67.557            | 4              |
| 6  | MP1A         | Mx        | .02                | 4              |
| 7  | MP1B         | X         | -39.004            | .25            |
| 8  | MP1B         | Z         | -67.557            | .25            |
| 9  | MP1B         | Mx        | .02                | .25            |
| 10 | MP1B         | X         | -39.004            | 4              |
| 11 | MP1B         | Z         | -67.557            | 4              |
| 12 | MP1B         | Mx        | .02                | 4              |
| 13 | MP1C         | X         | -25.715            | .25            |
| 14 | MP1C         | Z         | -44.539            | .25            |
| 15 | MP1C         | Mx        | -.026              | .25            |
| 16 | MP1C         | X         | -25.715            | 4              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP1C         | Z         | -44.539            | 4              |
| 18 | MP1C         | Mx        | -.026              | 4              |
| 19 | MP2A         | X         | -75.361            | .25            |
| 20 | MP2A         | Z         | -130.529           | .25            |
| 21 | MP2A         | Mx        | -.038              | .25            |
| 22 | MP2A         | X         | -75.361            | 5.25           |
| 23 | MP2A         | Z         | -130.529           | 5.25           |
| 24 | MP2A         | Mx        | -.038              | 5.25           |
| 25 | MP2C         | X         | -54.142            | .25            |
| 26 | MP2C         | Z         | -93.776            | .25            |
| 27 | MP2C         | Mx        | -.054              | .25            |
| 28 | MP2C         | X         | -54.142            | 5.25           |
| 29 | MP2C         | Z         | -93.776            | 5.25           |
| 30 | MP2C         | Mx        | -.054              | 5.25           |
| 31 | MP2A         | X         | -75.361            | .25            |
| 32 | MP2A         | Z         | -130.529           | .25            |
| 33 | MP2A         | Mx        | .114               | .25            |
| 34 | MP2A         | X         | -75.361            | 5.25           |
| 35 | MP2A         | Z         | -130.529           | 5.25           |
| 36 | MP2A         | Mx        | .114               | 5.25           |
| 37 | MP2C         | X         | -54.142            | .25            |
| 38 | MP2C         | Z         | -93.776            | .25            |
| 39 | MP2C         | Mx        | -.054              | .25            |
| 40 | MP2C         | X         | -54.142            | 5.25           |
| 41 | MP2C         | Z         | -93.776            | 5.25           |
| 42 | MP2C         | Mx        | -.054              | 5.25           |
| 43 | MP2B         | X         | -93.27             | .25            |
| 44 | MP2B         | Z         | -161.549           | .25            |
| 45 | MP2B         | Mx        | .17                | .25            |
| 46 | MP2B         | X         | -93.27             | 5.25           |
| 47 | MP2B         | Z         | -161.549           | 5.25           |
| 48 | MP2B         | Mx        | .17                | 5.25           |
| 49 | MP2B         | X         | -93.27             | .25            |
| 50 | MP2B         | Z         | -161.549           | .25            |
| 51 | MP2B         | Mx        | -.091              | .25            |
| 52 | MP2B         | X         | -93.27             | 5.25           |
| 53 | MP2B         | Z         | -161.549           | 5.25           |
| 54 | MP2B         | Mx        | -.091              | 5.25           |
| 55 | MP4A         | X         | -36.059            | 1.13           |
| 56 | MP4A         | Z         | -62.457            | 1.13           |
| 57 | MP4A         | Mx        | .018               | 1.13           |
| 58 | MP4A         | X         | -36.059            | 3.13           |
| 59 | MP4A         | Z         | -62.457            | 3.13           |
| 60 | MP4A         | Mx        | .018               | 3.13           |
| 61 | MP4B         | X         | -37.907            | 1.13           |
| 62 | MP4B         | Z         | -65.657            | 1.13           |
| 63 | MP4B         | Mx        | .016               | 1.13           |
| 64 | MP4B         | X         | -37.907            | 3.13           |
| 65 | MP4B         | Z         | -65.657            | 3.13           |
| 66 | MP4B         | Mx        | .016               | 3.13           |
| 67 | MP4C         | X         | -16.65             | 1.13           |
| 68 | MP4C         | Z         | -28.839            | 1.13           |
| 69 | MP4C         | Mx        | -.017              | 1.13           |
| 70 | MP4C         | X         | -16.65             | 3.13           |
| 71 | MP4C         | Z         | -28.839            | 3.13           |
| 72 | MP4C         | Mx        | -.017              | 3.13           |
| 73 | MP1A         | X         | -31.037            | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 74  | MP1A         | Z         | -53.758            | 2              |
| 75  | MP1A         | Mx        | -.01               | 2              |
| 76  | MP1B         | X         | -31.037            | 2              |
| 77  | MP1B         | Z         | -53.758            | 2              |
| 78  | MP1B         | Mx        | -.01               | 2              |
| 79  | MP1C         | X         | -22.622            | 2              |
| 80  | MP1C         | Z         | -39.182            | 2              |
| 81  | MP1C         | Mx        | .015               | 2              |
| 82  | MP2A         | X         | -30.528            | 2              |
| 83  | MP2A         | Z         | -52.876            | 2              |
| 84  | MP2A         | Mx        | -.01               | 2              |
| 85  | MP2B         | X         | -30.528            | 2              |
| 86  | MP2B         | Z         | -52.876            | 2              |
| 87  | MP2B         | Mx        | -.01               | 2              |
| 88  | MP2C         | X         | -20.586            | 2              |
| 89  | MP2C         | Z         | -35.656            | 2              |
| 90  | MP2C         | Mx        | .014               | 2              |
| 91  | MP2A         | X         | -6.18              | 5              |
| 92  | MP2A         | Z         | -10.705            | 5              |
| 93  | MP2A         | Mx        | -.002              | 5              |
| 94  | MP2B         | X         | -6.18              | 5              |
| 95  | MP2B         | Z         | -10.705            | 5              |
| 96  | MP2B         | Mx        | -.002              | 5              |
| 97  | MP2C         | X         | -4.633             | 5              |
| 98  | MP2C         | Z         | -8.025             | 5              |
| 99  | MP2C         | Mx        | .003               | 5              |
| 100 | OVP          | X         | -60.412            | .75            |
| 101 | OVP          | Z         | -104.636           | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 0                  | .25            |
| 2  | MP1A         | Z         | -15.698            | .25            |
| 3  | MP1A         | Mx        | 0                  | .25            |
| 4  | MP1A         | X         | 0                  | 4              |
| 5  | MP1A         | Z         | -15.698            | 4              |
| 6  | MP1A         | Mx        | 0                  | 4              |
| 7  | MP1B         | X         | 0                  | .25            |
| 8  | MP1B         | Z         | -11.294            | .25            |
| 9  | MP1B         | Mx        | .005               | .25            |
| 10 | MP1B         | X         | 0                  | 4              |
| 11 | MP1B         | Z         | -11.294            | 4              |
| 12 | MP1B         | Mx        | .005               | 4              |
| 13 | MP1C         | X         | 0                  | .25            |
| 14 | MP1C         | Z         | -11.294            | .25            |
| 15 | MP1C         | Mx        | -.005              | .25            |
| 16 | MP1C         | X         | 0                  | 4              |
| 17 | MP1C         | Z         | -11.294            | 4              |
| 18 | MP1C         | Mx        | -.005              | 4              |
| 19 | MP2A         | X         | 0                  | .25            |
| 20 | MP2A         | Z         | -28.892            | .25            |
| 21 | MP2A         | Mx        | -.017              | .25            |
| 22 | MP2A         | X         | 0                  | 5.25           |
| 23 | MP2A         | Z         | -28.892            | 5.25           |
| 24 | MP2A         | Mx        | -.017              | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2C         | X         | 0                  | .25            |
| 26 | MP2C         | Z         | -22.002            | .25            |
| 27 | MP2C         | Mx        | -.003              | .25            |
| 28 | MP2C         | X         | 0                  | 5.25           |
| 29 | MP2C         | Z         | -22.002            | 5.25           |
| 30 | MP2C         | Mx        | -.003              | 5.25           |
| 31 | MP2A         | X         | 0                  | .25            |
| 32 | MP2A         | Z         | -28.892            | .25            |
| 33 | MP2A         | Mx        | .017               | .25            |
| 34 | MP2A         | X         | 0                  | 5.25           |
| 35 | MP2A         | Z         | -28.892            | 5.25           |
| 36 | MP2A         | Mx        | .017               | 5.25           |
| 37 | MP2C         | X         | 0                  | .25            |
| 38 | MP2C         | Z         | -22.002            | .25            |
| 39 | MP2C         | Mx        | -.016              | .25            |
| 40 | MP2C         | X         | 0                  | 5.25           |
| 41 | MP2C         | Z         | -22.002            | 5.25           |
| 42 | MP2C         | Mx        | -.016              | 5.25           |
| 43 | MP2B         | X         | 0                  | .25            |
| 44 | MP2B         | Z         | -23.564            | .25            |
| 45 | MP2B         | Mx        | .02                | .25            |
| 46 | MP2B         | X         | 0                  | 5.25           |
| 47 | MP2B         | Z         | -23.564            | 5.25           |
| 48 | MP2B         | Mx        | .02                | 5.25           |
| 49 | MP2B         | X         | 0                  | .25            |
| 50 | MP2B         | Z         | -23.564            | .25            |
| 51 | MP2B         | Mx        | -.000767           | .25            |
| 52 | MP2B         | X         | 0                  | 5.25           |
| 53 | MP2B         | Z         | -23.564            | 5.25           |
| 54 | MP2B         | Mx        | -.000767           | 5.25           |
| 55 | MP4A         | X         | 0                  | 1.13           |
| 56 | MP4A         | Z         | -15.365            | 1.13           |
| 57 | MP4A         | Mx        | 0                  | 1.13           |
| 58 | MP4A         | X         | 0                  | 3.13           |
| 59 | MP4A         | Z         | -15.365            | 3.13           |
| 60 | MP4A         | Mx        | 0                  | 3.13           |
| 61 | MP4B         | X         | 0                  | 1.13           |
| 62 | MP4B         | Z         | -9.444             | 1.13           |
| 63 | MP4B         | Mx        | .004               | 1.13           |
| 64 | MP4B         | X         | 0                  | 3.13           |
| 65 | MP4B         | Z         | -9.444             | 3.13           |
| 66 | MP4B         | Mx        | .004               | 3.13           |
| 67 | MP4C         | X         | 0                  | 1.13           |
| 68 | MP4C         | Z         | -8.748             | 1.13           |
| 69 | MP4C         | Mx        | -.004              | 1.13           |
| 70 | MP4C         | X         | 0                  | 3.13           |
| 71 | MP4C         | Z         | -8.748             | 3.13           |
| 72 | MP4C         | Mx        | -.004              | 3.13           |
| 73 | MP1A         | X         | 0                  | 2              |
| 74 | MP1A         | Z         | -12.946            | 2              |
| 75 | MP1A         | Mx        | 0                  | 2              |
| 76 | MP1B         | X         | 0                  | 2              |
| 77 | MP1B         | Z         | -9.989             | 2              |
| 78 | MP1B         | Mx        | -.003              | 2              |
| 79 | MP1C         | X         | 0                  | 2              |
| 80 | MP1C         | Z         | -9.989             | 2              |
| 81 | MP1C         | Mx        | .003               | 2              |



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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 82  | MP2A         | X         | 0                  | 2              |
| 83  | MP2A         | Z         | -12.946            | 2              |
| 84  | MP2A         | Mx        | 0                  | 2              |
| 85  | MP2B         | X         | 0                  | 2              |
| 86  | MP2B         | Z         | -9.456             | 2              |
| 87  | MP2B         | Mx        | -.003              | 2              |
| 88  | MP2C         | X         | 0                  | 2              |
| 89  | MP2C         | Z         | -9.456             | 2              |
| 90  | MP2C         | Mx        | .003               | 2              |
| 91  | MP2A         | X         | 0                  | 5              |
| 92  | MP2A         | Z         | -3.139             | 5              |
| 93  | MP2A         | Mx        | 0                  | 5              |
| 94  | MP2B         | X         | 0                  | 5              |
| 95  | MP2B         | Z         | -2.551             | 5              |
| 96  | MP2B         | Mx        | -.000736           | 5              |
| 97  | MP2C         | X         | 0                  | 5              |
| 98  | MP2C         | Z         | -2.551             | 5              |
| 99  | MP2C         | Mx        | .000736            | 5              |
| 100 | OVP          | X         | 0                  | .75            |
| 101 | OVP          | Z         | -20.807            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 7.115              | .25            |
| 2  | MP1A         | Z         | -12.323            | .25            |
| 3  | MP1A         | Mx        | -.004              | .25            |
| 4  | MP1A         | X         | 7.115              | 4              |
| 5  | MP1A         | Z         | -12.323            | 4              |
| 6  | MP1A         | Mx        | -.004              | 4              |
| 7  | MP1B         | X         | 4.913              | .25            |
| 8  | MP1B         | Z         | -8.51              | .25            |
| 9  | MP1B         | Mx        | .005               | .25            |
| 10 | MP1B         | X         | 4.913              | 4              |
| 11 | MP1B         | Z         | -8.51              | 4              |
| 12 | MP1B         | Mx        | .005               | 4              |
| 13 | MP1C         | X         | 7.115              | .25            |
| 14 | MP1C         | Z         | -12.323            | .25            |
| 15 | MP1C         | Mx        | -.004              | .25            |
| 16 | MP1C         | X         | 7.115              | 4              |
| 17 | MP1C         | Z         | -12.323            | 4              |
| 18 | MP1C         | Mx        | -.004              | 4              |
| 19 | MP2A         | X         | 13.298             | .25            |
| 20 | MP2A         | Z         | -23.032            | .25            |
| 21 | MP2A         | Mx        | -.02               | .25            |
| 22 | MP2A         | X         | 13.298             | 5.25           |
| 23 | MP2A         | Z         | -23.032            | 5.25           |
| 24 | MP2A         | Mx        | -.02               | 5.25           |
| 25 | MP2C         | X         | 13.298             | .25            |
| 26 | MP2C         | Z         | -23.032            | .25            |
| 27 | MP2C         | Mx        | .007               | .25            |
| 28 | MP2C         | X         | 13.298             | 5.25           |
| 29 | MP2C         | Z         | -23.032            | 5.25           |
| 30 | MP2C         | Mx        | .007               | 5.25           |
| 31 | MP2A         | X         | 13.298             | .25            |
| 32 | MP2A         | Z         | -23.032            | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A         | Mx        | .007               | .25            |
| 34 | MP2A         | X         | 13.298             | 5.25           |
| 35 | MP2A         | Z         | -23.032            | 5.25           |
| 36 | MP2A         | Mx        | .007               | 5.25           |
| 37 | MP2C         | X         | 13.298             | .25            |
| 38 | MP2C         | Z         | -23.032            | .25            |
| 39 | MP2C         | Mx        | -.02               | .25            |
| 40 | MP2C         | X         | 13.298             | 5.25           |
| 41 | MP2C         | Z         | -23.032            | 5.25           |
| 42 | MP2C         | Mx        | -.02               | 5.25           |
| 43 | MP2B         | X         | 8.873              | .25            |
| 44 | MP2B         | Z         | -15.369            | .25            |
| 45 | MP2B         | Mx        | .01                | .25            |
| 46 | MP2B         | X         | 8.873              | 5.25           |
| 47 | MP2B         | Z         | -15.369            | 5.25           |
| 48 | MP2B         | Mx        | .01                | 5.25           |
| 49 | MP2B         | X         | 8.873              | .25            |
| 50 | MP2B         | Z         | -15.369            | .25            |
| 51 | MP2B         | Mx        | .008               | .25            |
| 52 | MP2B         | X         | 8.873              | 5.25           |
| 53 | MP2B         | Z         | -15.369            | 5.25           |
| 54 | MP2B         | Mx        | .008               | 5.25           |
| 55 | MP4A         | X         | 6.579              | 1.13           |
| 56 | MP4A         | Z         | -11.396            | 1.13           |
| 57 | MP4A         | Mx        | -.003              | 1.13           |
| 58 | MP4A         | X         | 6.579              | 3.13           |
| 59 | MP4A         | Z         | -11.396            | 3.13           |
| 60 | MP4A         | Mx        | -.003              | 3.13           |
| 61 | MP4B         | X         | 3.304              | 1.13           |
| 62 | MP4B         | Z         | -5.723             | 1.13           |
| 63 | MP4B         | Mx        | .003               | 1.13           |
| 64 | MP4B         | X         | 3.304              | 3.13           |
| 65 | MP4B         | Z         | -5.723             | 3.13           |
| 66 | MP4B         | Mx        | .003               | 3.13           |
| 67 | MP4C         | X         | 6.579              | 1.13           |
| 68 | MP4C         | Z         | -11.396            | 1.13           |
| 69 | MP4C         | Mx        | -.003              | 1.13           |
| 70 | MP4C         | X         | 6.579              | 3.13           |
| 71 | MP4C         | Z         | -11.396            | 3.13           |
| 72 | MP4C         | Mx        | -.003              | 3.13           |
| 73 | MP1A         | X         | 5.98               | 2              |
| 74 | MP1A         | Z         | -10.358            | 2              |
| 75 | MP1A         | Mx        | .002               | 2              |
| 76 | MP1B         | X         | 4.502              | 2              |
| 77 | MP1B         | Z         | -7.797             | 2              |
| 78 | MP1B         | Mx        | -.003              | 2              |
| 79 | MP1C         | X         | 5.98               | 2              |
| 80 | MP1C         | Z         | -10.358            | 2              |
| 81 | MP1C         | Mx        | .002               | 2              |
| 82 | MP2A         | X         | 5.891              | 2              |
| 83 | MP2A         | Z         | -10.204            | 2              |
| 84 | MP2A         | Mx        | .002               | 2              |
| 85 | MP2B         | X         | 4.147              | 2              |
| 86 | MP2B         | Z         | -7.182             | 2              |
| 87 | MP2B         | Mx        | -.003              | 2              |
| 88 | MP2C         | X         | 5.891              | 2              |
| 89 | MP2C         | Z         | -10.204            | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 90  | MP2C         | Mx        | .002               | 2              |
| 91  | MP2A         | X         | 1.471              | 5              |
| 92  | MP2A         | Z         | -2.549             | 5              |
| 93  | MP2A         | Mx        | .00049             | 5              |
| 94  | MP2B         | X         | 1.177              | 5              |
| 95  | MP2B         | Z         | -2.039             | 5              |
| 96  | MP2B         | Mx        | -.000785           | 5              |
| 97  | MP2C         | X         | 1.471              | 5              |
| 98  | MP2C         | Z         | -2.549             | 5              |
| 99  | MP2C         | Mx        | .000491            | 5              |
| 100 | OVP          | X         | 11.129             | .75            |
| 101 | OVP          | Z         | -19.276            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 9.781              | .25            |
| 2  | MP1A         | Z         | -5.647             | .25            |
| 3  | MP1A         | Mx        | -.005              | .25            |
| 4  | MP1A         | X         | 9.781              | 4              |
| 5  | MP1A         | Z         | -5.647             | 4              |
| 6  | MP1A         | Mx        | -.005              | 4              |
| 7  | MP1B         | X         | 9.781              | .25            |
| 8  | MP1B         | Z         | -5.647             | .25            |
| 9  | MP1B         | Mx        | .005               | .25            |
| 10 | MP1B         | X         | 9.781              | 4              |
| 11 | MP1B         | Z         | -5.647             | 4              |
| 12 | MP1B         | Mx        | .005               | 4              |
| 13 | MP1C         | X         | 13.594             | .25            |
| 14 | MP1C         | Z         | -7.849             | .25            |
| 15 | MP1C         | Mx        | 0                  | .25            |
| 16 | MP1C         | X         | 13.594             | 4              |
| 17 | MP1C         | Z         | -7.849             | 4              |
| 18 | MP1C         | Mx        | 0                  | 4              |
| 19 | MP2A         | X         | 19.054             | .25            |
| 20 | MP2A         | Z         | -11.001            | .25            |
| 21 | MP2A         | Mx        | -.016              | .25            |
| 22 | MP2A         | X         | 19.054             | 5.25           |
| 23 | MP2A         | Z         | -11.001            | 5.25           |
| 24 | MP2A         | Mx        | -.016              | 5.25           |
| 25 | MP2C         | X         | 25.021             | .25            |
| 26 | MP2C         | Z         | -14.446            | .25            |
| 27 | MP2C         | Mx        | .017               | .25            |
| 28 | MP2C         | X         | 25.021             | 5.25           |
| 29 | MP2C         | Z         | -14.446            | 5.25           |
| 30 | MP2C         | Mx        | .017               | 5.25           |
| 31 | MP2A         | X         | 19.054             | .25            |
| 32 | MP2A         | Z         | -11.001            | .25            |
| 33 | MP2A         | Mx        | -.003              | .25            |
| 34 | MP2A         | X         | 19.054             | 5.25           |
| 35 | MP2A         | Z         | -11.001            | 5.25           |
| 36 | MP2A         | Mx        | -.003              | 5.25           |
| 37 | MP2C         | X         | 25.021             | .25            |
| 38 | MP2C         | Z         | -14.446            | .25            |
| 39 | MP2C         | Mx        | -.017              | .25            |
| 40 | MP2C         | X         | 25.021             | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 41 | MP2C         | Z         | -14.446            | 5.25           |
| 42 | MP2C         | Mx        | -.017              | 5.25           |
| 43 | MP2B         | X         | 18.049             | .25            |
| 44 | MP2B         | Z         | -10.421            | .25            |
| 45 | MP2B         | Mx        | .003               | .25            |
| 46 | MP2B         | X         | 18.049             | 5.25           |
| 47 | MP2B         | Z         | -10.421            | 5.25           |
| 48 | MP2B         | Mx        | .003               | 5.25           |
| 49 | MP2B         | X         | 18.049             | .25            |
| 50 | MP2B         | Z         | -10.421            | .25            |
| 51 | MP2B         | Mx        | .016               | .25            |
| 52 | MP2B         | X         | 18.049             | 5.25           |
| 53 | MP2B         | Z         | -10.421            | 5.25           |
| 54 | MP2B         | Mx        | .016               | 5.25           |
| 55 | MP4A         | X         | 7.576              | 1.13           |
| 56 | MP4A         | Z         | -4.374             | 1.13           |
| 57 | MP4A         | Mx        | -.004              | 1.13           |
| 58 | MP4A         | X         | 7.576              | 3.13           |
| 59 | MP4A         | Z         | -4.374             | 3.13           |
| 60 | MP4A         | Mx        | -.004              | 3.13           |
| 61 | MP4B         | X         | 7.03               | 1.13           |
| 62 | MP4B         | Z         | -4.059             | 1.13           |
| 63 | MP4B         | Mx        | .004               | 1.13           |
| 64 | MP4B         | X         | 7.03               | 3.13           |
| 65 | MP4B         | Z         | -4.059             | 3.13           |
| 66 | MP4B         | Mx        | .004               | 3.13           |
| 67 | MP4C         | X         | 13.306             | 1.13           |
| 68 | MP4C         | Z         | -7.682             | 1.13           |
| 69 | MP4C         | Mx        | 0                  | 1.13           |
| 70 | MP4C         | X         | 13.306             | 3.13           |
| 71 | MP4C         | Z         | -7.682             | 3.13           |
| 72 | MP4C         | Mx        | 0                  | 3.13           |
| 73 | MP1A         | X         | 8.65               | 2              |
| 74 | MP1A         | Z         | -4.994             | 2              |
| 75 | MP1A         | Mx        | .003               | 2              |
| 76 | MP1B         | X         | 8.65               | 2              |
| 77 | MP1B         | Z         | -4.994             | 2              |
| 78 | MP1B         | Mx        | -.003              | 2              |
| 79 | MP1C         | X         | 11.211             | 2              |
| 80 | MP1C         | Z         | -6.473             | 2              |
| 81 | MP1C         | Mx        | 0                  | 2              |
| 82 | MP2A         | X         | 8.19               | 2              |
| 83 | MP2A         | Z         | -4.728             | 2              |
| 84 | MP2A         | Mx        | .003               | 2              |
| 85 | MP2B         | X         | 8.19               | 2              |
| 86 | MP2B         | Z         | -4.728             | 2              |
| 87 | MP2B         | Mx        | -.003              | 2              |
| 88 | MP2C         | X         | 11.211             | 2              |
| 89 | MP2C         | Z         | -6.473             | 2              |
| 90 | MP2C         | Mx        | 0                  | 2              |
| 91 | MP2A         | X         | 2.209              | 5              |
| 92 | MP2A         | Z         | -1.275             | 5              |
| 93 | MP2A         | Mx        | .000736            | 5              |
| 94 | MP2B         | X         | 2.209              | 5              |
| 95 | MP2B         | Z         | -1.275             | 5              |
| 96 | MP2B         | Mx        | -.000736           | 5              |
| 97 | MP2C         | X         | 2.719              | 5              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 98  | MP2C         | Z         | -1.57              | 5              |
| 99  | MP2C         | Mx        | 0                  | 5              |
| 100 | OVP          | X         | 21.79              | .75            |
| 101 | OVP          | Z         | -12.58             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 9.827              | .25            |
| 2  | MP1A         | Z         | 0                  | .25            |
| 3  | MP1A         | Mx        | -.005              | .25            |
| 4  | MP1A         | X         | 9.827              | 4              |
| 5  | MP1A         | Z         | 0                  | 4              |
| 6  | MP1A         | Mx        | -.005              | 4              |
| 7  | MP1B         | X         | 14.23              | .25            |
| 8  | MP1B         | Z         | 0                  | .25            |
| 9  | MP1B         | Mx        | .004               | .25            |
| 10 | MP1B         | X         | 14.23              | 4              |
| 11 | MP1B         | Z         | 0                  | 4              |
| 12 | MP1B         | Mx        | .004               | 4              |
| 13 | MP1C         | X         | 14.23              | .25            |
| 14 | MP1C         | Z         | 0                  | .25            |
| 15 | MP1C         | Mx        | .004               | .25            |
| 16 | MP1C         | X         | 14.23              | 4              |
| 17 | MP1C         | Z         | 0                  | 4              |
| 18 | MP1C         | Mx        | .004               | 4              |
| 19 | MP2A         | X         | 19.705             | .25            |
| 20 | MP2A         | Z         | 0                  | .25            |
| 21 | MP2A         | Mx        | -.01               | .25            |
| 22 | MP2A         | X         | 19.705             | 5.25           |
| 23 | MP2A         | Z         | 0                  | 5.25           |
| 24 | MP2A         | Mx        | -.01               | 5.25           |
| 25 | MP2C         | X         | 26.596             | .25            |
| 26 | MP2C         | Z         | 0                  | .25            |
| 27 | MP2C         | Mx        | .02                | .25            |
| 28 | MP2C         | X         | 26.596             | 5.25           |
| 29 | MP2C         | Z         | 0                  | 5.25           |
| 30 | MP2C         | Mx        | .02                | 5.25           |
| 31 | MP2A         | X         | 19.705             | .25            |
| 32 | MP2A         | Z         | 0                  | .25            |
| 33 | MP2A         | Mx        | -.01               | .25            |
| 34 | MP2A         | X         | 19.705             | 5.25           |
| 35 | MP2A         | Z         | 0                  | 5.25           |
| 36 | MP2A         | Mx        | -.01               | 5.25           |
| 37 | MP2C         | X         | 26.596             | .25            |
| 38 | MP2C         | Z         | 0                  | .25            |
| 39 | MP2C         | Mx        | -.007              | .25            |
| 40 | MP2C         | X         | 26.596             | 5.25           |
| 41 | MP2C         | Z         | 0                  | 5.25           |
| 42 | MP2C         | Mx        | -.007              | 5.25           |
| 43 | MP2B         | X         | 29.754             | .25            |
| 44 | MP2B         | Z         | 0                  | .25            |
| 45 | MP2B         | Mx        | -.01               | .25            |
| 46 | MP2B         | X         | 29.754             | 5.25           |
| 47 | MP2B         | Z         | 0                  | 5.25           |
| 48 | MP2B         | Mx        | -.01               | 5.25           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49  | MP2B         | X         | 29.754             | .25            |
| 50  | MP2B         | Z         | 0                  | .25            |
| 51  | MP2B         | Mx        | .027               | .25            |
| 52  | MP2B         | X         | 29.754             | 5.25           |
| 53  | MP2B         | Z         | 0                  | 5.25           |
| 54  | MP2B         | Mx        | .027               | 5.25           |
| 55  | MP4A         | X         | 6.542              | 1.13           |
| 56  | MP4A         | Z         | 0                  | 1.13           |
| 57  | MP4A         | Mx        | -.003              | 1.13           |
| 58  | MP4A         | X         | 6.542              | 3.13           |
| 59  | MP4A         | Z         | 0                  | 3.13           |
| 60  | MP4A         | Mx        | -.003              | 3.13           |
| 61  | MP4B         | X         | 12.462             | 1.13           |
| 62  | MP4B         | Z         | 0                  | 1.13           |
| 63  | MP4B         | Mx        | .004               | 1.13           |
| 64  | MP4B         | X         | 12.462             | 3.13           |
| 65  | MP4B         | Z         | 0                  | 3.13           |
| 66  | MP4B         | Mx        | .004               | 3.13           |
| 67  | MP4C         | X         | 13.159             | 1.13           |
| 68  | MP4C         | Z         | 0                  | 1.13           |
| 69  | MP4C         | Mx        | .003               | 1.13           |
| 70  | MP4C         | X         | 13.159             | 3.13           |
| 71  | MP4C         | Z         | 0                  | 3.13           |
| 72  | MP4C         | Mx        | .003               | 3.13           |
| 73  | MP1A         | X         | 9.003              | 2              |
| 74  | MP1A         | Z         | 0                  | 2              |
| 75  | MP1A         | Mx        | .003               | 2              |
| 76  | MP1B         | X         | 11.96              | 2              |
| 77  | MP1B         | Z         | 0                  | 2              |
| 78  | MP1B         | Mx        | -.002              | 2              |
| 79  | MP1C         | X         | 11.96              | 2              |
| 80  | MP1C         | Z         | 0                  | 2              |
| 81  | MP1C         | Mx        | -.002              | 2              |
| 82  | MP2A         | X         | 8.293              | 2              |
| 83  | MP2A         | Z         | 0                  | 2              |
| 84  | MP2A         | Mx        | .003               | 2              |
| 85  | MP2B         | X         | 11.783             | 2              |
| 86  | MP2B         | Z         | 0                  | 2              |
| 87  | MP2B         | Mx        | -.002              | 2              |
| 88  | MP2C         | X         | 11.783             | 2              |
| 89  | MP2C         | Z         | 0                  | 2              |
| 90  | MP2C         | Mx        | -.002              | 2              |
| 91  | MP2A         | X         | 2.355              | 5              |
| 92  | MP2A         | Z         | 0                  | 5              |
| 93  | MP2A         | Mx        | .000785            | 5              |
| 94  | MP2B         | X         | 2.943              | 5              |
| 95  | MP2B         | Z         | 0                  | 5              |
| 96  | MP2B         | Mx        | -.000491           | 5              |
| 97  | MP2C         | X         | 2.943              | 5              |
| 98  | MP2C         | Z         | 0                  | 5              |
| 99  | MP2C         | Mx        | -.000491           | 5              |
| 100 | OVP          | X         | 26.612             | .75            |
| 101 | OVP          | Z         | 0                  | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

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

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 9.781              | .25            |
| 2  | MP1A         | Z         | 5.647              | .25            |
| 3  | MP1A         | Mx        | -.005              | .25            |
| 4  | MP1A         | X         | 9.781              | 4              |
| 5  | MP1A         | Z         | 5.647              | 4              |
| 6  | MP1A         | Mx        | -.005              | 4              |
| 7  | MP1B         | X         | 13.594             | .25            |
| 8  | MP1B         | Z         | 7.849              | .25            |
| 9  | MP1B         | Mx        | 0                  | .25            |
| 10 | MP1B         | X         | 13.594             | 4              |
| 11 | MP1B         | Z         | 7.849              | 4              |
| 12 | MP1B         | Mx        | 0                  | 4              |
| 13 | MP1C         | X         | 9.781              | .25            |
| 14 | MP1C         | Z         | 5.647              | .25            |
| 15 | MP1C         | Mx        | .005               | .25            |
| 16 | MP1C         | X         | 9.781              | 4              |
| 17 | MP1C         | Z         | 5.647              | 4              |
| 18 | MP1C         | Mx        | .005               | 4              |
| 19 | MP2A         | X         | 19.054             | .25            |
| 20 | MP2A         | Z         | 11.001             | .25            |
| 21 | MP2A         | Mx        | -.003              | .25            |
| 22 | MP2A         | X         | 19.054             | 5.25           |
| 23 | MP2A         | Z         | 11.001             | 5.25           |
| 24 | MP2A         | Mx        | -.003              | 5.25           |
| 25 | MP2C         | X         | 19.054             | .25            |
| 26 | MP2C         | Z         | 11.001             | .25            |
| 27 | MP2C         | Mx        | .016               | .25            |
| 28 | MP2C         | X         | 19.054             | 5.25           |
| 29 | MP2C         | Z         | 11.001             | 5.25           |
| 30 | MP2C         | Mx        | .016               | 5.25           |
| 31 | MP2A         | X         | 19.054             | .25            |
| 32 | MP2A         | Z         | 11.001             | .25            |
| 33 | MP2A         | Mx        | -.016              | .25            |
| 34 | MP2A         | X         | 19.054             | 5.25           |
| 35 | MP2A         | Z         | 11.001             | 5.25           |
| 36 | MP2A         | Mx        | -.016              | 5.25           |
| 37 | MP2C         | X         | 19.054             | .25            |
| 38 | MP2C         | Z         | 11.001             | .25            |
| 39 | MP2C         | Mx        | .003               | .25            |
| 40 | MP2C         | X         | 19.054             | 5.25           |
| 41 | MP2C         | Z         | 11.001             | 5.25           |
| 42 | MP2C         | Mx        | .003               | 5.25           |
| 43 | MP2B         | X         | 30.806             | .25            |
| 44 | MP2B         | Z         | 17.786             | .25            |
| 45 | MP2B         | Mx        | -.026              | .25            |
| 46 | MP2B         | X         | 30.806             | 5.25           |
| 47 | MP2B         | Z         | 17.786             | 5.25           |
| 48 | MP2B         | Mx        | -.026              | 5.25           |
| 49 | MP2B         | X         | 30.806             | .25            |
| 50 | MP2B         | Z         | 17.786             | .25            |
| 51 | MP2B         | Mx        | .029               | .25            |
| 52 | MP2B         | X         | 30.806             | 5.25           |
| 53 | MP2B         | Z         | 17.786             | 5.25           |
| 54 | MP2B         | Mx        | .029               | 5.25           |
| 55 | MP4A         | X         | 7.576              | 1.13           |
| 56 | MP4A         | Z         | 4.374              | 1.13           |
| 57 | MP4A         | Mx        | -.004              | 1.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 58  | MP4A         | X         | 7.576              | 3.13           |
| 59  | MP4A         | Z         | 4.374              | 3.13           |
| 60  | MP4A         | Mx        | -.004              | 3.13           |
| 61  | MP4B         | X         | 13.248             | 1.13           |
| 62  | MP4B         | Z         | 7.649              | 1.13           |
| 63  | MP4B         | Mx        | .000667            | 1.13           |
| 64  | MP4B         | X         | 13.248             | 3.13           |
| 65  | MP4B         | Z         | 7.649              | 3.13           |
| 66  | MP4B         | Mx        | .000667            | 3.13           |
| 67  | MP4C         | X         | 7.576              | 1.13           |
| 68  | MP4C         | Z         | 4.374              | 1.13           |
| 69  | MP4C         | Mx        | .004               | 1.13           |
| 70  | MP4C         | X         | 7.576              | 3.13           |
| 71  | MP4C         | Z         | 4.374              | 3.13           |
| 72  | MP4C         | Mx        | .004               | 3.13           |
| 73  | MP1A         | X         | 8.65               | 2              |
| 74  | MP1A         | Z         | 4.994              | 2              |
| 75  | MP1A         | Mx        | .003               | 2              |
| 76  | MP1B         | X         | 11.211             | 2              |
| 77  | MP1B         | Z         | 6.473              | 2              |
| 78  | MP1B         | Mx        | 0                  | 2              |
| 79  | MP1C         | X         | 8.65               | 2              |
| 80  | MP1C         | Z         | 4.994              | 2              |
| 81  | MP1C         | Mx        | -.003              | 2              |
| 82  | MP2A         | X         | 8.19               | 2              |
| 83  | MP2A         | Z         | 4.728              | 2              |
| 84  | MP2A         | Mx        | .003               | 2              |
| 85  | MP2B         | X         | 11.211             | 2              |
| 86  | MP2B         | Z         | 6.473              | 2              |
| 87  | MP2B         | Mx        | 0                  | 2              |
| 88  | MP2C         | X         | 8.19               | 2              |
| 89  | MP2C         | Z         | 4.728              | 2              |
| 90  | MP2C         | Mx        | -.003              | 2              |
| 91  | MP2A         | X         | 2.209              | 5              |
| 92  | MP2A         | Z         | 1.275              | 5              |
| 93  | MP2A         | Mx        | .000736            | 5              |
| 94  | MP2B         | X         | 2.719              | 5              |
| 95  | MP2B         | Z         | 1.57               | 5              |
| 96  | MP2B         | Mx        | 0                  | 5              |
| 97  | MP2C         | X         | 2.209              | 5              |
| 98  | MP2C         | Z         | 1.275              | 5              |
| 99  | MP2C         | Mx        | -.000736           | 5              |
| 100 | OVP          | X         | 21.79              | .75            |
| 101 | OVP          | Z         | 12.58              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP1A         | X         | 7.115              | .25            |
| 2 | MP1A         | Z         | 12.323             | .25            |
| 3 | MP1A         | Mx        | -.004              | .25            |
| 4 | MP1A         | X         | 7.115              | 4              |
| 5 | MP1A         | Z         | 12.323             | 4              |
| 6 | MP1A         | Mx        | -.004              | 4              |
| 7 | MP1B         | X         | 7.115              | .25            |
| 8 | MP1B         | Z         | 12.323             | .25            |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9  | MP1B         | Mx        | -.004              | .25            |
| 10 | MP1B         | X         | 7.115              | 4              |
| 11 | MP1B         | Z         | 12.323             | 4              |
| 12 | MP1B         | Mx        | -.004              | 4              |
| 13 | MP1C         | X         | 4.913              | .25            |
| 14 | MP1C         | Z         | 8.51               | .25            |
| 15 | MP1C         | Mx        | .005               | .25            |
| 16 | MP1C         | X         | 4.913              | 4              |
| 17 | MP1C         | Z         | 8.51               | 4              |
| 18 | MP1C         | Mx        | .005               | 4              |
| 19 | MP2A         | X         | 13.298             | .25            |
| 20 | MP2A         | Z         | 23.032             | .25            |
| 21 | MP2A         | Mx        | .007               | .25            |
| 22 | MP2A         | X         | 13.298             | 5.25           |
| 23 | MP2A         | Z         | 23.032             | 5.25           |
| 24 | MP2A         | Mx        | .007               | 5.25           |
| 25 | MP2C         | X         | 9.853              | .25            |
| 26 | MP2C         | Z         | 17.065             | .25            |
| 27 | MP2C         | Mx        | .01                | .25            |
| 28 | MP2C         | X         | 9.853              | 5.25           |
| 29 | MP2C         | Z         | 17.065             | 5.25           |
| 30 | MP2C         | Mx        | .01                | 5.25           |
| 31 | MP2A         | X         | 13.298             | .25            |
| 32 | MP2A         | Z         | 23.032             | .25            |
| 33 | MP2A         | Mx        | -.02               | .25            |
| 34 | MP2A         | X         | 13.298             | 5.25           |
| 35 | MP2A         | Z         | 23.032             | 5.25           |
| 36 | MP2A         | Mx        | -.02               | 5.25           |
| 37 | MP2C         | X         | 9.853              | .25            |
| 38 | MP2C         | Z         | 17.065             | .25            |
| 39 | MP2C         | Mx        | .01                | .25            |
| 40 | MP2C         | X         | 9.853              | 5.25           |
| 41 | MP2C         | Z         | 17.065             | 5.25           |
| 42 | MP2C         | Mx        | .01                | 5.25           |
| 43 | MP2B         | X         | 16.238             | .25            |
| 44 | MP2B         | Z         | 28.125             | .25            |
| 45 | MP2B         | Mx        | -.03               | .25            |
| 46 | MP2B         | X         | 16.238             | 5.25           |
| 47 | MP2B         | Z         | 28.125             | 5.25           |
| 48 | MP2B         | Mx        | -.03               | 5.25           |
| 49 | MP2B         | X         | 16.238             | .25            |
| 50 | MP2B         | Z         | 28.125             | .25            |
| 51 | MP2B         | Mx        | .016               | .25            |
| 52 | MP2B         | X         | 16.238             | 5.25           |
| 53 | MP2B         | Z         | 28.125             | 5.25           |
| 54 | MP2B         | Mx        | .016               | 5.25           |
| 55 | MP4A         | X         | 6.579              | 1.13           |
| 56 | MP4A         | Z         | 11.396             | 1.13           |
| 57 | MP4A         | Mx        | -.003              | 1.13           |
| 58 | MP4A         | X         | 6.579              | 3.13           |
| 59 | MP4A         | Z         | 11.396             | 3.13           |
| 60 | MP4A         | Mx        | -.003              | 3.13           |
| 61 | MP4B         | X         | 6.894              | 1.13           |
| 62 | MP4B         | Z         | 11.942             | 1.13           |
| 63 | MP4B         | Mx        | -.003              | 1.13           |
| 64 | MP4B         | X         | 6.894              | 3.13           |
| 65 | MP4B         | Z         | 11.942             | 3.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66  | MP4B         | Mx        | -.003              | 3.13           |
| 67  | MP4C         | X         | 3.271              | 1.13           |
| 68  | MP4C         | Z         | 5.665              | 1.13           |
| 69  | MP4C         | Mx        | .003               | 1.13           |
| 70  | MP4C         | X         | 3.271              | 3.13           |
| 71  | MP4C         | Z         | 5.665              | 3.13           |
| 72  | MP4C         | Mx        | .003               | 3.13           |
| 73  | MP1A         | X         | 5.98               | 2              |
| 74  | MP1A         | Z         | 10.358             | 2              |
| 75  | MP1A         | Mx        | .002               | 2              |
| 76  | MP1B         | X         | 5.98               | 2              |
| 77  | MP1B         | Z         | 10.358             | 2              |
| 78  | MP1B         | Mx        | .002               | 2              |
| 79  | MP1C         | X         | 4.502              | 2              |
| 80  | MP1C         | Z         | 7.797              | 2              |
| 81  | MP1C         | Mx        | -.003              | 2              |
| 82  | MP2A         | X         | 5.891              | 2              |
| 83  | MP2A         | Z         | 10.204             | 2              |
| 84  | MP2A         | Mx        | .002               | 2              |
| 85  | MP2B         | X         | 5.891              | 2              |
| 86  | MP2B         | Z         | 10.204             | 2              |
| 87  | MP2B         | Mx        | .002               | 2              |
| 88  | MP2C         | X         | 4.147              | 2              |
| 89  | MP2C         | Z         | 7.182              | 2              |
| 90  | MP2C         | Mx        | -.003              | 2              |
| 91  | MP2A         | X         | 1.471              | 5              |
| 92  | MP2A         | Z         | 2.549              | 5              |
| 93  | MP2A         | Mx        | .00049             | 5              |
| 94  | MP2B         | X         | 1.471              | 5              |
| 95  | MP2B         | Z         | 2.549              | 5              |
| 96  | MP2B         | Mx        | .000491            | 5              |
| 97  | MP2C         | X         | 1.177              | 5              |
| 98  | MP2C         | Z         | 2.039              | 5              |
| 99  | MP2C         | Mx        | -.000785           | 5              |
| 100 | OVP          | X         | 11.129             | .75            |
| 101 | OVP          | Z         | 19.276             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 0                  | .25            |
| 2  | MP1A         | Z         | 15.698             | .25            |
| 3  | MP1A         | Mx        | 0                  | .25            |
| 4  | MP1A         | X         | 0                  | 4              |
| 5  | MP1A         | Z         | 15.698             | 4              |
| 6  | MP1A         | Mx        | 0                  | 4              |
| 7  | MP1B         | X         | 0                  | .25            |
| 8  | MP1B         | Z         | 11.294             | .25            |
| 9  | MP1B         | Mx        | -.005              | .25            |
| 10 | MP1B         | X         | 0                  | 4              |
| 11 | MP1B         | Z         | 11.294             | 4              |
| 12 | MP1B         | Mx        | -.005              | 4              |
| 13 | MP1C         | X         | 0                  | .25            |
| 14 | MP1C         | Z         | 11.294             | .25            |
| 15 | MP1C         | Mx        | .005               | .25            |
| 16 | MP1C         | X         | 0                  | 4              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP1C         | Z         | 11.294             | 4              |
| 18 | MP1C         | Mx        | .005               | 4              |
| 19 | MP2A         | X         | 0                  | .25            |
| 20 | MP2A         | Z         | 28.892             | .25            |
| 21 | MP2A         | Mx        | .017               | .25            |
| 22 | MP2A         | X         | 0                  | 5.25           |
| 23 | MP2A         | Z         | 28.892             | 5.25           |
| 24 | MP2A         | Mx        | .017               | 5.25           |
| 25 | MP2C         | X         | 0                  | .25            |
| 26 | MP2C         | Z         | 22.002             | .25            |
| 27 | MP2C         | Mx        | .003               | .25            |
| 28 | MP2C         | X         | 0                  | 5.25           |
| 29 | MP2C         | Z         | 22.002             | 5.25           |
| 30 | MP2C         | Mx        | .003               | 5.25           |
| 31 | MP2A         | X         | 0                  | .25            |
| 32 | MP2A         | Z         | 28.892             | .25            |
| 33 | MP2A         | Mx        | -.017              | .25            |
| 34 | MP2A         | X         | 0                  | 5.25           |
| 35 | MP2A         | Z         | 28.892             | 5.25           |
| 36 | MP2A         | Mx        | -.017              | 5.25           |
| 37 | MP2C         | X         | 0                  | .25            |
| 38 | MP2C         | Z         | 22.002             | .25            |
| 39 | MP2C         | Mx        | .016               | .25            |
| 40 | MP2C         | X         | 0                  | 5.25           |
| 41 | MP2C         | Z         | 22.002             | 5.25           |
| 42 | MP2C         | Mx        | .016               | 5.25           |
| 43 | MP2B         | X         | 0                  | .25            |
| 44 | MP2B         | Z         | 23.564             | .25            |
| 45 | MP2B         | Mx        | -.02               | .25            |
| 46 | MP2B         | X         | 0                  | 5.25           |
| 47 | MP2B         | Z         | 23.564             | 5.25           |
| 48 | MP2B         | Mx        | -.02               | 5.25           |
| 49 | MP2B         | X         | 0                  | .25            |
| 50 | MP2B         | Z         | 23.564             | .25            |
| 51 | MP2B         | Mx        | .000767            | .25            |
| 52 | MP2B         | X         | 0                  | 5.25           |
| 53 | MP2B         | Z         | 23.564             | 5.25           |
| 54 | MP2B         | Mx        | .000767            | 5.25           |
| 55 | MP4A         | X         | 0                  | 1.13           |
| 56 | MP4A         | Z         | 15.365             | 1.13           |
| 57 | MP4A         | Mx        | 0                  | 1.13           |
| 58 | MP4A         | X         | 0                  | 3.13           |
| 59 | MP4A         | Z         | 15.365             | 3.13           |
| 60 | MP4A         | Mx        | 0                  | 3.13           |
| 61 | MP4B         | X         | 0                  | 1.13           |
| 62 | MP4B         | Z         | 9.444              | 1.13           |
| 63 | MP4B         | Mx        | -.004              | 1.13           |
| 64 | MP4B         | X         | 0                  | 3.13           |
| 65 | MP4B         | Z         | 9.444              | 3.13           |
| 66 | MP4B         | Mx        | -.004              | 3.13           |
| 67 | MP4C         | X         | 0                  | 1.13           |
| 68 | MP4C         | Z         | 8.748              | 1.13           |
| 69 | MP4C         | Mx        | .004               | 1.13           |
| 70 | MP4C         | X         | 0                  | 3.13           |
| 71 | MP4C         | Z         | 8.748              | 3.13           |
| 72 | MP4C         | Mx        | .004               | 3.13           |
| 73 | MP1A         | X         | 0                  | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 74  | MP1A         | Z         | 12.946             | 2              |
| 75  | MP1A         | Mx        | 0                  | 2              |
| 76  | MP1B         | X         | 0                  | 2              |
| 77  | MP1B         | Z         | 9.989              | 2              |
| 78  | MP1B         | Mx        | .003               | 2              |
| 79  | MP1C         | X         | 0                  | 2              |
| 80  | MP1C         | Z         | 9.989              | 2              |
| 81  | MP1C         | Mx        | -.003              | 2              |
| 82  | MP2A         | X         | 0                  | 2              |
| 83  | MP2A         | Z         | 12.946             | 2              |
| 84  | MP2A         | Mx        | 0                  | 2              |
| 85  | MP2B         | X         | 0                  | 2              |
| 86  | MP2B         | Z         | 9.456              | 2              |
| 87  | MP2B         | Mx        | .003               | 2              |
| 88  | MP2C         | X         | 0                  | 2              |
| 89  | MP2C         | Z         | 9.456              | 2              |
| 90  | MP2C         | Mx        | -.003              | 2              |
| 91  | MP2A         | X         | 0                  | 5              |
| 92  | MP2A         | Z         | 3.139              | 5              |
| 93  | MP2A         | Mx        | 0                  | 5              |
| 94  | MP2B         | X         | 0                  | 5              |
| 95  | MP2B         | Z         | 2.551              | 5              |
| 96  | MP2B         | Mx        | .000736            | 5              |
| 97  | MP2C         | X         | 0                  | 5              |
| 98  | MP2C         | Z         | 2.551              | 5              |
| 99  | MP2C         | Mx        | -.000736           | 5              |
| 100 | OVP          | X         | 0                  | .75            |
| 101 | OVP          | Z         | 20.807             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -7.115             | .25            |
| 2  | MP1A         | Z         | 12.323             | .25            |
| 3  | MP1A         | Mx        | .004               | .25            |
| 4  | MP1A         | X         | -7.115             | 4              |
| 5  | MP1A         | Z         | 12.323             | 4              |
| 6  | MP1A         | Mx        | .004               | 4              |
| 7  | MP1B         | X         | -4.913             | .25            |
| 8  | MP1B         | Z         | 8.51               | .25            |
| 9  | MP1B         | Mx        | -.005              | .25            |
| 10 | MP1B         | X         | -4.913             | 4              |
| 11 | MP1B         | Z         | 8.51               | 4              |
| 12 | MP1B         | Mx        | -.005              | 4              |
| 13 | MP1C         | X         | -7.115             | .25            |
| 14 | MP1C         | Z         | 12.323             | .25            |
| 15 | MP1C         | Mx        | .004               | .25            |
| 16 | MP1C         | X         | -7.115             | 4              |
| 17 | MP1C         | Z         | 12.323             | 4              |
| 18 | MP1C         | Mx        | .004               | 4              |
| 19 | MP2A         | X         | -13.298            | .25            |
| 20 | MP2A         | Z         | 23.032             | .25            |
| 21 | MP2A         | Mx        | .02                | .25            |
| 22 | MP2A         | X         | -13.298            | 5.25           |
| 23 | MP2A         | Z         | 23.032             | 5.25           |
| 24 | MP2A         | Mx        | .02                | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2C         | X         | -13.298            | .25            |
| 26 | MP2C         | Z         | 23.032             | .25            |
| 27 | MP2C         | Mx        | -.007              | .25            |
| 28 | MP2C         | X         | -13.298            | 5.25           |
| 29 | MP2C         | Z         | 23.032             | 5.25           |
| 30 | MP2C         | Mx        | -.007              | 5.25           |
| 31 | MP2A         | X         | -13.298            | .25            |
| 32 | MP2A         | Z         | 23.032             | .25            |
| 33 | MP2A         | Mx        | -.007              | .25            |
| 34 | MP2A         | X         | -13.298            | 5.25           |
| 35 | MP2A         | Z         | 23.032             | 5.25           |
| 36 | MP2A         | Mx        | -.007              | 5.25           |
| 37 | MP2C         | X         | -13.298            | .25            |
| 38 | MP2C         | Z         | 23.032             | .25            |
| 39 | MP2C         | Mx        | .02                | .25            |
| 40 | MP2C         | X         | -13.298            | 5.25           |
| 41 | MP2C         | Z         | 23.032             | 5.25           |
| 42 | MP2C         | Mx        | .02                | 5.25           |
| 43 | MP2B         | X         | -8.873             | .25            |
| 44 | MP2B         | Z         | 15.369             | .25            |
| 45 | MP2B         | Mx        | -.01               | .25            |
| 46 | MP2B         | X         | -8.873             | 5.25           |
| 47 | MP2B         | Z         | 15.369             | 5.25           |
| 48 | MP2B         | Mx        | -.01               | 5.25           |
| 49 | MP2B         | X         | -8.873             | .25            |
| 50 | MP2B         | Z         | 15.369             | .25            |
| 51 | MP2B         | Mx        | -.008              | .25            |
| 52 | MP2B         | X         | -8.873             | 5.25           |
| 53 | MP2B         | Z         | 15.369             | 5.25           |
| 54 | MP2B         | Mx        | -.008              | 5.25           |
| 55 | MP4A         | X         | -6.579             | 1.13           |
| 56 | MP4A         | Z         | 11.396             | 1.13           |
| 57 | MP4A         | Mx        | .003               | 1.13           |
| 58 | MP4A         | X         | -6.579             | 3.13           |
| 59 | MP4A         | Z         | 11.396             | 3.13           |
| 60 | MP4A         | Mx        | .003               | 3.13           |
| 61 | MP4B         | X         | -3.304             | 1.13           |
| 62 | MP4B         | Z         | 5.723              | 1.13           |
| 63 | MP4B         | Mx        | -.003              | 1.13           |
| 64 | MP4B         | X         | -3.304             | 3.13           |
| 65 | MP4B         | Z         | 5.723              | 3.13           |
| 66 | MP4B         | Mx        | -.003              | 3.13           |
| 67 | MP4C         | X         | -6.579             | 1.13           |
| 68 | MP4C         | Z         | 11.396             | 1.13           |
| 69 | MP4C         | Mx        | .003               | 1.13           |
| 70 | MP4C         | X         | -6.579             | 3.13           |
| 71 | MP4C         | Z         | 11.396             | 3.13           |
| 72 | MP4C         | Mx        | .003               | 3.13           |
| 73 | MP1A         | X         | -5.98              | 2              |
| 74 | MP1A         | Z         | 10.358             | 2              |
| 75 | MP1A         | Mx        | -.002              | 2              |
| 76 | MP1B         | X         | -4.502             | 2              |
| 77 | MP1B         | Z         | 7.797              | 2              |
| 78 | MP1B         | Mx        | .003               | 2              |
| 79 | MP1C         | X         | -5.98              | 2              |
| 80 | MP1C         | Z         | 10.358             | 2              |
| 81 | MP1C         | Mx        | -.002              | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 82  | MP2A         | X         | -5.891             | 2              |
| 83  | MP2A         | Z         | 10.204             | 2              |
| 84  | MP2A         | Mx        | -.002              | 2              |
| 85  | MP2B         | X         | -4.147             | 2              |
| 86  | MP2B         | Z         | 7.182              | 2              |
| 87  | MP2B         | Mx        | .003               | 2              |
| 88  | MP2C         | X         | -5.891             | 2              |
| 89  | MP2C         | Z         | 10.204             | 2              |
| 90  | MP2C         | Mx        | -.002              | 2              |
| 91  | MP2A         | X         | -1.471             | 5              |
| 92  | MP2A         | Z         | 2.549              | 5              |
| 93  | MP2A         | Mx        | -.00049            | 5              |
| 94  | MP2B         | X         | -1.177             | 5              |
| 95  | MP2B         | Z         | 2.039              | 5              |
| 96  | MP2B         | Mx        | .000785            | 5              |
| 97  | MP2C         | X         | -1.471             | 5              |
| 98  | MP2C         | Z         | 2.549              | 5              |
| 99  | MP2C         | Mx        | -.000491           | 5              |
| 100 | OVP          | X         | -11.129            | .75            |
| 101 | OVP          | Z         | 19.276             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -9.781             | .25            |
| 2  | MP1A         | Z         | 5.647              | .25            |
| 3  | MP1A         | Mx        | .005               | .25            |
| 4  | MP1A         | X         | -9.781             | 4              |
| 5  | MP1A         | Z         | 5.647              | 4              |
| 6  | MP1A         | Mx        | .005               | 4              |
| 7  | MP1B         | X         | -9.781             | .25            |
| 8  | MP1B         | Z         | 5.647              | .25            |
| 9  | MP1B         | Mx        | -.005              | .25            |
| 10 | MP1B         | X         | -9.781             | 4              |
| 11 | MP1B         | Z         | 5.647              | 4              |
| 12 | MP1B         | Mx        | -.005              | 4              |
| 13 | MP1C         | X         | -13.594            | .25            |
| 14 | MP1C         | Z         | 7.849              | .25            |
| 15 | MP1C         | Mx        | 0                  | .25            |
| 16 | MP1C         | X         | -13.594            | 4              |
| 17 | MP1C         | Z         | 7.849              | 4              |
| 18 | MP1C         | Mx        | 0                  | 4              |
| 19 | MP2A         | X         | -19.054            | .25            |
| 20 | MP2A         | Z         | 11.001             | .25            |
| 21 | MP2A         | Mx        | .016               | .25            |
| 22 | MP2A         | X         | -19.054            | 5.25           |
| 23 | MP2A         | Z         | 11.001             | 5.25           |
| 24 | MP2A         | Mx        | .016               | 5.25           |
| 25 | MP2C         | X         | -25.021            | .25            |
| 26 | MP2C         | Z         | 14.446             | .25            |
| 27 | MP2C         | Mx        | -.017              | .25            |
| 28 | MP2C         | X         | -25.021            | 5.25           |
| 29 | MP2C         | Z         | 14.446             | 5.25           |
| 30 | MP2C         | Mx        | -.017              | 5.25           |
| 31 | MP2A         | X         | -19.054            | .25            |
| 32 | MP2A         | Z         | 11.001             | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A         | Mx        | .003               | .25            |
| 34 | MP2A         | X         | -19.054            | 5.25           |
| 35 | MP2A         | Z         | 11.001             | 5.25           |
| 36 | MP2A         | Mx        | .003               | 5.25           |
| 37 | MP2C         | X         | -25.021            | .25            |
| 38 | MP2C         | Z         | 14.446             | .25            |
| 39 | MP2C         | Mx        | .017               | .25            |
| 40 | MP2C         | X         | -25.021            | 5.25           |
| 41 | MP2C         | Z         | 14.446             | 5.25           |
| 42 | MP2C         | Mx        | .017               | 5.25           |
| 43 | MP2B         | X         | -18.049            | .25            |
| 44 | MP2B         | Z         | 10.421             | .25            |
| 45 | MP2B         | Mx        | -.003              | .25            |
| 46 | MP2B         | X         | -18.049            | 5.25           |
| 47 | MP2B         | Z         | 10.421             | 5.25           |
| 48 | MP2B         | Mx        | -.003              | 5.25           |
| 49 | MP2B         | X         | -18.049            | .25            |
| 50 | MP2B         | Z         | 10.421             | .25            |
| 51 | MP2B         | Mx        | -.016              | .25            |
| 52 | MP2B         | X         | -18.049            | 5.25           |
| 53 | MP2B         | Z         | 10.421             | 5.25           |
| 54 | MP2B         | Mx        | -.016              | 5.25           |
| 55 | MP4A         | X         | -7.576             | 1.13           |
| 56 | MP4A         | Z         | 4.374              | 1.13           |
| 57 | MP4A         | Mx        | .004               | 1.13           |
| 58 | MP4A         | X         | -7.576             | 3.13           |
| 59 | MP4A         | Z         | 4.374              | 3.13           |
| 60 | MP4A         | Mx        | .004               | 3.13           |
| 61 | MP4B         | X         | -7.03              | 1.13           |
| 62 | MP4B         | Z         | 4.059              | 1.13           |
| 63 | MP4B         | Mx        | -.004              | 1.13           |
| 64 | MP4B         | X         | -7.03              | 3.13           |
| 65 | MP4B         | Z         | 4.059              | 3.13           |
| 66 | MP4B         | Mx        | -.004              | 3.13           |
| 67 | MP4C         | X         | -13.306            | 1.13           |
| 68 | MP4C         | Z         | 7.682              | 1.13           |
| 69 | MP4C         | Mx        | 0                  | 1.13           |
| 70 | MP4C         | X         | -13.306            | 3.13           |
| 71 | MP4C         | Z         | 7.682              | 3.13           |
| 72 | MP4C         | Mx        | 0                  | 3.13           |
| 73 | MP1A         | X         | -8.65              | 2              |
| 74 | MP1A         | Z         | 4.994              | 2              |
| 75 | MP1A         | Mx        | -.003              | 2              |
| 76 | MP1B         | X         | -8.65              | 2              |
| 77 | MP1B         | Z         | 4.994              | 2              |
| 78 | MP1B         | Mx        | .003               | 2              |
| 79 | MP1C         | X         | -11.211            | 2              |
| 80 | MP1C         | Z         | 6.473              | 2              |
| 81 | MP1C         | Mx        | 0                  | 2              |
| 82 | MP2A         | X         | -8.19              | 2              |
| 83 | MP2A         | Z         | 4.728              | 2              |
| 84 | MP2A         | Mx        | -.003              | 2              |
| 85 | MP2B         | X         | -8.19              | 2              |
| 86 | MP2B         | Z         | 4.728              | 2              |
| 87 | MP2B         | Mx        | .003               | 2              |
| 88 | MP2C         | X         | -11.211            | 2              |
| 89 | MP2C         | Z         | 6.473              | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 90  | MP2C         | Mx        | 0                  | 2              |
| 91  | MP2A         | X         | -2.209             | 5              |
| 92  | MP2A         | Z         | 1.275              | 5              |
| 93  | MP2A         | Mx        | -.000736           | 5              |
| 94  | MP2B         | X         | -2.209             | 5              |
| 95  | MP2B         | Z         | 1.275              | 5              |
| 96  | MP2B         | Mx        | .000736            | 5              |
| 97  | MP2C         | X         | -2.719             | 5              |
| 98  | MP2C         | Z         | 1.57               | 5              |
| 99  | MP2C         | Mx        | 0                  | 5              |
| 100 | OVP          | X         | -21.79             | .75            |
| 101 | OVP          | Z         | 12.58              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -9.827             | .25            |
| 2  | MP1A         | Z         | 0                  | .25            |
| 3  | MP1A         | Mx        | .005               | .25            |
| 4  | MP1A         | X         | -9.827             | 4              |
| 5  | MP1A         | Z         | 0                  | 4              |
| 6  | MP1A         | Mx        | .005               | 4              |
| 7  | MP1B         | X         | -14.23             | .25            |
| 8  | MP1B         | Z         | 0                  | .25            |
| 9  | MP1B         | Mx        | -.004              | .25            |
| 10 | MP1B         | X         | -14.23             | 4              |
| 11 | MP1B         | Z         | 0                  | 4              |
| 12 | MP1B         | Mx        | -.004              | 4              |
| 13 | MP1C         | X         | -14.23             | .25            |
| 14 | MP1C         | Z         | 0                  | .25            |
| 15 | MP1C         | Mx        | -.004              | .25            |
| 16 | MP1C         | X         | -14.23             | 4              |
| 17 | MP1C         | Z         | 0                  | 4              |
| 18 | MP1C         | Mx        | -.004              | 4              |
| 19 | MP2A         | X         | -19.705            | .25            |
| 20 | MP2A         | Z         | 0                  | .25            |
| 21 | MP2A         | Mx        | .01                | .25            |
| 22 | MP2A         | X         | -19.705            | 5.25           |
| 23 | MP2A         | Z         | 0                  | 5.25           |
| 24 | MP2A         | Mx        | .01                | 5.25           |
| 25 | MP2C         | X         | -26.596            | .25            |
| 26 | MP2C         | Z         | 0                  | .25            |
| 27 | MP2C         | Mx        | -.02               | .25            |
| 28 | MP2C         | X         | -26.596            | 5.25           |
| 29 | MP2C         | Z         | 0                  | 5.25           |
| 30 | MP2C         | Mx        | -.02               | 5.25           |
| 31 | MP2A         | X         | -19.705            | .25            |
| 32 | MP2A         | Z         | 0                  | .25            |
| 33 | MP2A         | Mx        | .01                | .25            |
| 34 | MP2A         | X         | -19.705            | 5.25           |
| 35 | MP2A         | Z         | 0                  | 5.25           |
| 36 | MP2A         | Mx        | .01                | 5.25           |
| 37 | MP2C         | X         | -26.596            | .25            |
| 38 | MP2C         | Z         | 0                  | .25            |
| 39 | MP2C         | Mx        | .007               | .25            |
| 40 | MP2C         | X         | -26.596            | 5.25           |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 41 | MP2C         | Z         | 0                  | 5.25           |
| 42 | MP2C         | Mx        | .007               | 5.25           |
| 43 | MP2B         | X         | -29.754            | .25            |
| 44 | MP2B         | Z         | 0                  | .25            |
| 45 | MP2B         | Mx        | .01                | .25            |
| 46 | MP2B         | X         | -29.754            | 5.25           |
| 47 | MP2B         | Z         | 0                  | 5.25           |
| 48 | MP2B         | Mx        | .01                | 5.25           |
| 49 | MP2B         | X         | -29.754            | .25            |
| 50 | MP2B         | Z         | 0                  | .25            |
| 51 | MP2B         | Mx        | -.027              | .25            |
| 52 | MP2B         | X         | -29.754            | 5.25           |
| 53 | MP2B         | Z         | 0                  | 5.25           |
| 54 | MP2B         | Mx        | -.027              | 5.25           |
| 55 | MP4A         | X         | -6.542             | 1.13           |
| 56 | MP4A         | Z         | 0                  | 1.13           |
| 57 | MP4A         | Mx        | .003               | 1.13           |
| 58 | MP4A         | X         | -6.542             | 3.13           |
| 59 | MP4A         | Z         | 0                  | 3.13           |
| 60 | MP4A         | Mx        | .003               | 3.13           |
| 61 | MP4B         | X         | -12.462            | 1.13           |
| 62 | MP4B         | Z         | 0                  | 1.13           |
| 63 | MP4B         | Mx        | -.004              | 1.13           |
| 64 | MP4B         | X         | -12.462            | 3.13           |
| 65 | MP4B         | Z         | 0                  | 3.13           |
| 66 | MP4B         | Mx        | -.004              | 3.13           |
| 67 | MP4C         | X         | -13.159            | 1.13           |
| 68 | MP4C         | Z         | 0                  | 1.13           |
| 69 | MP4C         | Mx        | -.003              | 1.13           |
| 70 | MP4C         | X         | -13.159            | 3.13           |
| 71 | MP4C         | Z         | 0                  | 3.13           |
| 72 | MP4C         | Mx        | -.003              | 3.13           |
| 73 | MP1A         | X         | -9.003             | 2              |
| 74 | MP1A         | Z         | 0                  | 2              |
| 75 | MP1A         | Mx        | -.003              | 2              |
| 76 | MP1B         | X         | -11.96             | 2              |
| 77 | MP1B         | Z         | 0                  | 2              |
| 78 | MP1B         | Mx        | .002               | 2              |
| 79 | MP1C         | X         | -11.96             | 2              |
| 80 | MP1C         | Z         | 0                  | 2              |
| 81 | MP1C         | Mx        | .002               | 2              |
| 82 | MP2A         | X         | -8.293             | 2              |
| 83 | MP2A         | Z         | 0                  | 2              |
| 84 | MP2A         | Mx        | -.003              | 2              |
| 85 | MP2B         | X         | -11.783            | 2              |
| 86 | MP2B         | Z         | 0                  | 2              |
| 87 | MP2B         | Mx        | .002               | 2              |
| 88 | MP2C         | X         | -11.783            | 2              |
| 89 | MP2C         | Z         | 0                  | 2              |
| 90 | MP2C         | Mx        | .002               | 2              |
| 91 | MP2A         | X         | -2.355             | 5              |
| 92 | MP2A         | Z         | 0                  | 5              |
| 93 | MP2A         | Mx        | -.000785           | 5              |
| 94 | MP2B         | X         | -2.943             | 5              |
| 95 | MP2B         | Z         | 0                  | 5              |
| 96 | MP2B         | Mx        | .000491            | 5              |
| 97 | MP2C         | X         | -2.943             | 5              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 98  | MP2C         | Z         | 0                  | 5              |
| 99  | MP2C         | Mx        | .000491            | 5              |
| 100 | OVP          | X         | -26.612            | .75            |
| 101 | OVP          | Z         | 0                  | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -9.781             | .25            |
| 2  | MP1A         | Z         | -5.647             | .25            |
| 3  | MP1A         | Mx        | .005               | .25            |
| 4  | MP1A         | X         | -9.781             | 4              |
| 5  | MP1A         | Z         | -5.647             | 4              |
| 6  | MP1A         | Mx        | .005               | 4              |
| 7  | MP1B         | X         | -13.594            | .25            |
| 8  | MP1B         | Z         | -7.849             | .25            |
| 9  | MP1B         | Mx        | 0                  | .25            |
| 10 | MP1B         | X         | -13.594            | 4              |
| 11 | MP1B         | Z         | -7.849             | 4              |
| 12 | MP1B         | Mx        | 0                  | 4              |
| 13 | MP1C         | X         | -9.781             | .25            |
| 14 | MP1C         | Z         | -5.647             | .25            |
| 15 | MP1C         | Mx        | -.005              | .25            |
| 16 | MP1C         | X         | -9.781             | 4              |
| 17 | MP1C         | Z         | -5.647             | 4              |
| 18 | MP1C         | Mx        | -.005              | 4              |
| 19 | MP2A         | X         | -19.054            | .25            |
| 20 | MP2A         | Z         | -11.001            | .25            |
| 21 | MP2A         | Mx        | .003               | .25            |
| 22 | MP2A         | X         | -19.054            | 5.25           |
| 23 | MP2A         | Z         | -11.001            | 5.25           |
| 24 | MP2A         | Mx        | .003               | 5.25           |
| 25 | MP2C         | X         | -19.054            | .25            |
| 26 | MP2C         | Z         | -11.001            | .25            |
| 27 | MP2C         | Mx        | -.016              | .25            |
| 28 | MP2C         | X         | -19.054            | 5.25           |
| 29 | MP2C         | Z         | -11.001            | 5.25           |
| 30 | MP2C         | Mx        | -.016              | 5.25           |
| 31 | MP2A         | X         | -19.054            | .25            |
| 32 | MP2A         | Z         | -11.001            | .25            |
| 33 | MP2A         | Mx        | .016               | .25            |
| 34 | MP2A         | X         | -19.054            | 5.25           |
| 35 | MP2A         | Z         | -11.001            | 5.25           |
| 36 | MP2A         | Mx        | .016               | 5.25           |
| 37 | MP2C         | X         | -19.054            | .25            |
| 38 | MP2C         | Z         | -11.001            | .25            |
| 39 | MP2C         | Mx        | -.003              | .25            |
| 40 | MP2C         | X         | -19.054            | 5.25           |
| 41 | MP2C         | Z         | -11.001            | 5.25           |
| 42 | MP2C         | Mx        | -.003              | 5.25           |
| 43 | MP2B         | X         | -30.806            | .25            |
| 44 | MP2B         | Z         | -17.786            | .25            |
| 45 | MP2B         | Mx        | .026               | .25            |
| 46 | MP2B         | X         | -30.806            | 5.25           |
| 47 | MP2B         | Z         | -17.786            | 5.25           |
| 48 | MP2B         | Mx        | .026               | 5.25           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49  | MP2B         | X         | -30.806            | .25            |
| 50  | MP2B         | Z         | -17.786            | .25            |
| 51  | MP2B         | Mx        | -.029              | .25            |
| 52  | MP2B         | X         | -30.806            | 5.25           |
| 53  | MP2B         | Z         | -17.786            | 5.25           |
| 54  | MP2B         | Mx        | -.029              | 5.25           |
| 55  | MP4A         | X         | -7.576             | 1.13           |
| 56  | MP4A         | Z         | -4.374             | 1.13           |
| 57  | MP4A         | Mx        | .004               | 1.13           |
| 58  | MP4A         | X         | -7.576             | 3.13           |
| 59  | MP4A         | Z         | -4.374             | 3.13           |
| 60  | MP4A         | Mx        | .004               | 3.13           |
| 61  | MP4B         | X         | -13.248            | 1.13           |
| 62  | MP4B         | Z         | -7.649             | 1.13           |
| 63  | MP4B         | Mx        | -.000667           | 1.13           |
| 64  | MP4B         | X         | -13.248            | 3.13           |
| 65  | MP4B         | Z         | -7.649             | 3.13           |
| 66  | MP4B         | Mx        | -.000667           | 3.13           |
| 67  | MP4C         | X         | -7.576             | 1.13           |
| 68  | MP4C         | Z         | -4.374             | 1.13           |
| 69  | MP4C         | Mx        | -.004              | 1.13           |
| 70  | MP4C         | X         | -7.576             | 3.13           |
| 71  | MP4C         | Z         | -4.374             | 3.13           |
| 72  | MP4C         | Mx        | -.004              | 3.13           |
| 73  | MP1A         | X         | -8.65              | 2              |
| 74  | MP1A         | Z         | -4.994             | 2              |
| 75  | MP1A         | Mx        | -.003              | 2              |
| 76  | MP1B         | X         | -11.211            | 2              |
| 77  | MP1B         | Z         | -6.473             | 2              |
| 78  | MP1B         | Mx        | 0                  | 2              |
| 79  | MP1C         | X         | -8.65              | 2              |
| 80  | MP1C         | Z         | -4.994             | 2              |
| 81  | MP1C         | Mx        | .003               | 2              |
| 82  | MP2A         | X         | -8.19              | 2              |
| 83  | MP2A         | Z         | -4.728             | 2              |
| 84  | MP2A         | Mx        | -.003              | 2              |
| 85  | MP2B         | X         | -11.211            | 2              |
| 86  | MP2B         | Z         | -6.473             | 2              |
| 87  | MP2B         | Mx        | 0                  | 2              |
| 88  | MP2C         | X         | -8.19              | 2              |
| 89  | MP2C         | Z         | -4.728             | 2              |
| 90  | MP2C         | Mx        | .003               | 2              |
| 91  | MP2A         | X         | -2.209             | 5              |
| 92  | MP2A         | Z         | -1.275             | 5              |
| 93  | MP2A         | Mx        | -.000736           | 5              |
| 94  | MP2B         | X         | -2.719             | 5              |
| 95  | MP2B         | Z         | -1.57              | 5              |
| 96  | MP2B         | Mx        | 0                  | 5              |
| 97  | MP2C         | X         | -2.209             | 5              |
| 98  | MP2C         | Z         | -1.275             | 5              |
| 99  | MP2C         | Mx        | .000736            | 5              |
| 100 | OVP          | X         | -21.79             | .75            |
| 101 | OVP          | Z         | -12.58             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| RISA-3D Version 17.0.4 [R:\...\Mount Fix\Rev 0\RISA\MOD - 468078-VZW_MT_LO_H.r3d] Page 58 |              |           |                    |                |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -7.115             | .25            |
| 2  | MP1A         | Z         | -12.323            | .25            |
| 3  | MP1A         | Mx        | .004               | .25            |
| 4  | MP1A         | X         | -7.115             | 4              |
| 5  | MP1A         | Z         | -12.323            | 4              |
| 6  | MP1A         | Mx        | .004               | 4              |
| 7  | MP1B         | X         | -7.115             | .25            |
| 8  | MP1B         | Z         | -12.323            | .25            |
| 9  | MP1B         | Mx        | .004               | .25            |
| 10 | MP1B         | X         | -7.115             | 4              |
| 11 | MP1B         | Z         | -12.323            | 4              |
| 12 | MP1B         | Mx        | .004               | 4              |
| 13 | MP1C         | X         | -4.913             | .25            |
| 14 | MP1C         | Z         | -8.51              | .25            |
| 15 | MP1C         | Mx        | -.005              | .25            |
| 16 | MP1C         | X         | -4.913             | 4              |
| 17 | MP1C         | Z         | -8.51              | 4              |
| 18 | MP1C         | Mx        | -.005              | 4              |
| 19 | MP2A         | X         | -13.298            | .25            |
| 20 | MP2A         | Z         | -23.032            | .25            |
| 21 | MP2A         | Mx        | -.007              | .25            |
| 22 | MP2A         | X         | -13.298            | 5.25           |
| 23 | MP2A         | Z         | -23.032            | 5.25           |
| 24 | MP2A         | Mx        | -.007              | 5.25           |
| 25 | MP2C         | X         | -9.853             | .25            |
| 26 | MP2C         | Z         | -17.065            | .25            |
| 27 | MP2C         | Mx        | -.01               | .25            |
| 28 | MP2C         | X         | -9.853             | 5.25           |
| 29 | MP2C         | Z         | -17.065            | 5.25           |
| 30 | MP2C         | Mx        | -.01               | 5.25           |
| 31 | MP2A         | X         | -13.298            | .25            |
| 32 | MP2A         | Z         | -23.032            | .25            |
| 33 | MP2A         | Mx        | .02                | .25            |
| 34 | MP2A         | X         | -13.298            | 5.25           |
| 35 | MP2A         | Z         | -23.032            | 5.25           |
| 36 | MP2A         | Mx        | .02                | 5.25           |
| 37 | MP2C         | X         | -9.853             | .25            |
| 38 | MP2C         | Z         | -17.065            | .25            |
| 39 | MP2C         | Mx        | -.01               | .25            |
| 40 | MP2C         | X         | -9.853             | 5.25           |
| 41 | MP2C         | Z         | -17.065            | 5.25           |
| 42 | MP2C         | Mx        | -.01               | 5.25           |
| 43 | MP2B         | X         | -16.238            | .25            |
| 44 | MP2B         | Z         | -28.125            | .25            |
| 45 | MP2B         | Mx        | .03                | .25            |
| 46 | MP2B         | X         | -16.238            | 5.25           |
| 47 | MP2B         | Z         | -28.125            | 5.25           |
| 48 | MP2B         | Mx        | .03                | 5.25           |
| 49 | MP2B         | X         | -16.238            | .25            |
| 50 | MP2B         | Z         | -28.125            | .25            |
| 51 | MP2B         | Mx        | -.016              | .25            |
| 52 | MP2B         | X         | -16.238            | 5.25           |
| 53 | MP2B         | Z         | -28.125            | 5.25           |
| 54 | MP2B         | Mx        | -.016              | 5.25           |
| 55 | MP4A         | X         | -6.579             | 1.13           |
| 56 | MP4A         | Z         | -11.396            | 1.13           |
| 57 | MP4A         | Mx        | .003               | 1.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 58  | MP4A         | X         | -6.579             | 3.13           |
| 59  | MP4A         | Z         | -11.396            | 3.13           |
| 60  | MP4A         | Mx        | .003               | 3.13           |
| 61  | MP4B         | X         | -6.894             | 1.13           |
| 62  | MP4B         | Z         | -11.942            | 1.13           |
| 63  | MP4B         | Mx        | .003               | 1.13           |
| 64  | MP4B         | X         | -6.894             | 3.13           |
| 65  | MP4B         | Z         | -11.942            | 3.13           |
| 66  | MP4B         | Mx        | .003               | 3.13           |
| 67  | MP4C         | X         | -3.271             | 1.13           |
| 68  | MP4C         | Z         | -5.665             | 1.13           |
| 69  | MP4C         | Mx        | -.003              | 1.13           |
| 70  | MP4C         | X         | -3.271             | 3.13           |
| 71  | MP4C         | Z         | -5.665             | 3.13           |
| 72  | MP4C         | Mx        | -.003              | 3.13           |
| 73  | MP1A         | X         | -5.98              | 2              |
| 74  | MP1A         | Z         | -10.358            | 2              |
| 75  | MP1A         | Mx        | -.002              | 2              |
| 76  | MP1B         | X         | -5.98              | 2              |
| 77  | MP1B         | Z         | -10.358            | 2              |
| 78  | MP1B         | Mx        | -.002              | 2              |
| 79  | MP1C         | X         | -4.502             | 2              |
| 80  | MP1C         | Z         | -7.797             | 2              |
| 81  | MP1C         | Mx        | .003               | 2              |
| 82  | MP2A         | X         | -5.891             | 2              |
| 83  | MP2A         | Z         | -10.204            | 2              |
| 84  | MP2A         | Mx        | -.002              | 2              |
| 85  | MP2B         | X         | -5.891             | 2              |
| 86  | MP2B         | Z         | -10.204            | 2              |
| 87  | MP2B         | Mx        | -.002              | 2              |
| 88  | MP2C         | X         | -4.147             | 2              |
| 89  | MP2C         | Z         | -7.182             | 2              |
| 90  | MP2C         | Mx        | .003               | 2              |
| 91  | MP2A         | X         | -1.471             | 5              |
| 92  | MP2A         | Z         | -2.549             | 5              |
| 93  | MP2A         | Mx        | -.00049            | 5              |
| 94  | MP2B         | X         | -1.471             | 5              |
| 95  | MP2B         | Z         | -2.549             | 5              |
| 96  | MP2B         | Mx        | -.000491           | 5              |
| 97  | MP2C         | X         | -1.177             | 5              |
| 98  | MP2C         | Z         | -2.039             | 5              |
| 99  | MP2C         | Mx        | .000785            | 5              |
| 100 | OVP          | X         | -11.129            | .75            |
| 101 | OVP          | Z         | -19.276            | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP1A         | X         | 0                  | .25            |
| 2 | MP1A         | Z         | -5.004             | .25            |
| 3 | MP1A         | Mx        | 0                  | .25            |
| 4 | MP1A         | X         | 0                  | 4              |
| 5 | MP1A         | Z         | -5.004             | 4              |
| 6 | MP1A         | Mx        | 0                  | 4              |
| 7 | MP1B         | X         | 0                  | .25            |
| 8 | MP1B         | Z         | -3.473             | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9  | MP1B         | Mx        | .002               | .25            |
| 10 | MP1B         | X         | 0                  | 4              |
| 11 | MP1B         | Z         | -3.473             | 4              |
| 12 | MP1B         | Mx        | .002               | 4              |
| 13 | MP1C         | X         | 0                  | .25            |
| 14 | MP1C         | Z         | -3.473             | .25            |
| 15 | MP1C         | Mx        | -.002              | .25            |
| 16 | MP1C         | X         | 0                  | 4              |
| 17 | MP1C         | Z         | -3.473             | 4              |
| 18 | MP1C         | Mx        | -.002              | 4              |
| 19 | MP2A         | X         | 0                  | .25            |
| 20 | MP2A         | Z         | -9.496             | .25            |
| 21 | MP2A         | Mx        | -.006              | .25            |
| 22 | MP2A         | X         | 0                  | 5.25           |
| 23 | MP2A         | Z         | -9.496             | 5.25           |
| 24 | MP2A         | Mx        | -.006              | 5.25           |
| 25 | MP2C         | X         | 0                  | .25            |
| 26 | MP2C         | Z         | -7.052             | .25            |
| 27 | MP2C         | Mx        | -.000997           | .25            |
| 28 | MP2C         | X         | 0                  | 5.25           |
| 29 | MP2C         | Z         | -7.052             | 5.25           |
| 30 | MP2C         | Mx        | -.000997           | 5.25           |
| 31 | MP2A         | X         | 0                  | .25            |
| 32 | MP2A         | Z         | -9.496             | .25            |
| 33 | MP2A         | Mx        | .006               | .25            |
| 34 | MP2A         | X         | 0                  | 5.25           |
| 35 | MP2A         | Z         | -9.496             | 5.25           |
| 36 | MP2A         | Mx        | .006               | 5.25           |
| 37 | MP2C         | X         | 0                  | .25            |
| 38 | MP2C         | Z         | -7.052             | .25            |
| 39 | MP2C         | Mx        | -.005              | .25            |
| 40 | MP2C         | X         | 0                  | 5.25           |
| 41 | MP2C         | Z         | -7.052             | 5.25           |
| 42 | MP2C         | Mx        | -.005              | 5.25           |
| 43 | MP2B         | X         | 0                  | .25            |
| 44 | MP2B         | Z         | -7.605             | .25            |
| 45 | MP2B         | Mx        | .006               | .25            |
| 46 | MP2B         | X         | 0                  | 5.25           |
| 47 | MP2B         | Z         | -7.605             | 5.25           |
| 48 | MP2B         | Mx        | .006               | 5.25           |
| 49 | MP2B         | X         | 0                  | .25            |
| 50 | MP2B         | Z         | -7.605             | .25            |
| 51 | MP2B         | Mx        | -.000248           | .25            |
| 52 | MP2B         | X         | 0                  | 5.25           |
| 53 | MP2B         | Z         | -7.605             | 5.25           |
| 54 | MP2B         | Mx        | -.000248           | 5.25           |
| 55 | MP4A         | X         | 0                  | 1.13           |
| 56 | MP4A         | Z         | -4.899             | 1.13           |
| 57 | MP4A         | Mx        | 0                  | 1.13           |
| 58 | MP4A         | X         | 0                  | 3.13           |
| 59 | MP4A         | Z         | -4.899             | 3.13           |
| 60 | MP4A         | Mx        | 0                  | 3.13           |
| 61 | MP4B         | X         | 0                  | 1.13           |
| 62 | MP4B         | Z         | -2.899             | 1.13           |
| 63 | MP4B         | Mx        | .001               | 1.13           |
| 64 | MP4B         | X         | 0                  | 3.13           |
| 65 | MP4B         | Z         | -2.899             | 3.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66  | MP4B         | Mx        | .001               | 3.13           |
| 67  | MP4C         | X         | 0                  | 1.13           |
| 68  | MP4C         | Z         | -2.663             | 1.13           |
| 69  | MP4C         | Mx        | -.001              | 1.13           |
| 70  | MP4C         | X         | 0                  | 3.13           |
| 71  | MP4C         | Z         | -2.663             | 3.13           |
| 72  | MP4C         | Mx        | -.001              | 3.13           |
| 73  | MP1A         | X         | 0                  | 2              |
| 74  | MP1A         | Z         | -3.899             | 2              |
| 75  | MP1A         | Mx        | 0                  | 2              |
| 76  | MP1B         | X         | 0                  | 2              |
| 77  | MP1B         | Z         | -2.929             | 2              |
| 78  | MP1B         | Mx        | -.000846           | 2              |
| 79  | MP1C         | X         | 0                  | 2              |
| 80  | MP1C         | Z         | -2.929             | 2              |
| 81  | MP1C         | Mx        | .000846            | 2              |
| 82  | MP2A         | X         | 0                  | 2              |
| 83  | MP2A         | Z         | -3.899             | 2              |
| 84  | MP2A         | Mx        | 0                  | 2              |
| 85  | MP2B         | X         | 0                  | 2              |
| 86  | MP2B         | Z         | -2.753             | 2              |
| 87  | MP2B         | Mx        | -.000795           | 2              |
| 88  | MP2C         | X         | 0                  | 2              |
| 89  | MP2C         | Z         | -2.753             | 2              |
| 90  | MP2C         | Mx        | .000795            | 2              |
| 91  | MP2A         | X         | 0                  | 5              |
| 92  | MP2A         | Z         | -.771              | 5              |
| 93  | MP2A         | Mx        | 0                  | 5              |
| 94  | MP2B         | X         | 0                  | 5              |
| 95  | MP2B         | Z         | -.593              | 5              |
| 96  | MP2B         | Mx        | -.000171           | 5              |
| 97  | MP2C         | X         | 0                  | 5              |
| 98  | MP2C         | Z         | -.593              | 5              |
| 99  | MP2C         | Mx        | .000171            | 5              |
| 100 | OVP          | X         | 0                  | .75            |
| 101 | OVP          | Z         | -6.458             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 2.247              | .25            |
| 2  | MP1A         | Z         | -3.891             | .25            |
| 3  | MP1A         | Mx        | -.001              | .25            |
| 4  | MP1A         | X         | 2.247              | 4              |
| 5  | MP1A         | Z         | -3.891             | 4              |
| 6  | MP1A         | Mx        | -.001              | 4              |
| 7  | MP1B         | X         | 1.481              | .25            |
| 8  | MP1B         | Z         | -2.565             | .25            |
| 9  | MP1B         | Mx        | .001               | .25            |
| 10 | MP1B         | X         | 1.481              | 4              |
| 11 | MP1B         | Z         | -2.565             | 4              |
| 12 | MP1B         | Mx        | .001               | 4              |
| 13 | MP1C         | X         | 2.247              | .25            |
| 14 | MP1C         | Z         | -3.891             | .25            |
| 15 | MP1C         | Mx        | -.001              | .25            |
| 16 | MP1C         | X         | 2.247              | 4              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP1C         | Z         | -3.891             | 4              |
| 18 | MP1C         | Mx        | -.001              | 4              |
| 19 | MP2A         | X         | 4.341              | .25            |
| 20 | MP2A         | Z         | -7.518             | .25            |
| 21 | MP2A         | Mx        | -.007              | .25            |
| 22 | MP2A         | X         | 4.341              | 5.25           |
| 23 | MP2A         | Z         | -7.518             | 5.25           |
| 24 | MP2A         | Mx        | -.007              | 5.25           |
| 25 | MP2C         | X         | 4.341              | .25            |
| 26 | MP2C         | Z         | -7.518             | .25            |
| 27 | MP2C         | Mx        | .002               | .25            |
| 28 | MP2C         | X         | 4.341              | 5.25           |
| 29 | MP2C         | Z         | -7.518             | 5.25           |
| 30 | MP2C         | Mx        | .002               | 5.25           |
| 31 | MP2A         | X         | 4.341              | .25            |
| 32 | MP2A         | Z         | -7.518             | .25            |
| 33 | MP2A         | Mx        | .002               | .25            |
| 34 | MP2A         | X         | 4.341              | 5.25           |
| 35 | MP2A         | Z         | -7.518             | 5.25           |
| 36 | MP2A         | Mx        | .002               | 5.25           |
| 37 | MP2C         | X         | 4.341              | .25            |
| 38 | MP2C         | Z         | -7.518             | .25            |
| 39 | MP2C         | Mx        | -.007              | .25            |
| 40 | MP2C         | X         | 4.341              | 5.25           |
| 41 | MP2C         | Z         | -7.518             | 5.25           |
| 42 | MP2C         | Mx        | -.007              | 5.25           |
| 43 | MP2B         | X         | 2.778              | .25            |
| 44 | MP2B         | Z         | -4.812             | .25            |
| 45 | MP2B         | Mx        | .003               | .25            |
| 46 | MP2B         | X         | 2.778              | 5.25           |
| 47 | MP2B         | Z         | -4.812             | 5.25           |
| 48 | MP2B         | Mx        | .003               | 5.25           |
| 49 | MP2B         | X         | 2.778              | .25            |
| 50 | MP2B         | Z         | -4.812             | .25            |
| 51 | MP2B         | Mx        | .002               | .25            |
| 52 | MP2B         | X         | 2.778              | 5.25           |
| 53 | MP2B         | Z         | -4.812             | 5.25           |
| 54 | MP2B         | Mx        | .002               | 5.25           |
| 55 | MP4A         | X         | 2.077              | 1.13           |
| 56 | MP4A         | Z         | -3.598             | 1.13           |
| 57 | MP4A         | Mx        | -.001              | 1.13           |
| 58 | MP4A         | X         | 2.077              | 3.13           |
| 59 | MP4A         | Z         | -3.598             | 3.13           |
| 60 | MP4A         | Mx        | -.001              | 3.13           |
| 61 | MP4B         | X         | .97                | 1.13           |
| 62 | MP4B         | Z         | -1.681             | 1.13           |
| 63 | MP4B         | Mx        | .000967            | 1.13           |
| 64 | MP4B         | X         | .97                | 3.13           |
| 65 | MP4B         | Z         | -1.681             | 3.13           |
| 66 | MP4B         | Mx        | .000967            | 3.13           |
| 67 | MP4C         | X         | 2.077              | 1.13           |
| 68 | MP4C         | Z         | -3.598             | 1.13           |
| 69 | MP4C         | Mx        | -.001              | 1.13           |
| 70 | MP4C         | X         | 2.077              | 3.13           |
| 71 | MP4C         | Z         | -3.598             | 3.13           |
| 72 | MP4C         | Mx        | -.001              | 3.13           |
| 73 | MP1A         | X         | 1.788              | 2              |



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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 74  | MP1A         | Z         | -3.096             | 2              |
| 75  | MP1A         | Mx        | .000596            | 2              |
| 76  | MP1B         | X         | 1.303              | 2              |
| 77  | MP1B         | Z         | -2.257             | 2              |
| 78  | MP1B         | Mx        | -.000869           | 2              |
| 79  | MP1C         | X         | 1.788              | 2              |
| 80  | MP1C         | Z         | -3.096             | 2              |
| 81  | MP1C         | Mx        | .000596            | 2              |
| 82  | MP2A         | X         | 1.758              | 2              |
| 83  | MP2A         | Z         | -3.046             | 2              |
| 84  | MP2A         | Mx        | .000586            | 2              |
| 85  | MP2B         | X         | 1.186              | 2              |
| 86  | MP2B         | Z         | -2.054             | 2              |
| 87  | MP2B         | Mx        | -.000791           | 2              |
| 88  | MP2C         | X         | 1.758              | 2              |
| 89  | MP2C         | Z         | -3.046             | 2              |
| 90  | MP2C         | Mx        | .000586            | 2              |
| 91  | MP2A         | X         | .356               | 5              |
| 92  | MP2A         | Z         | -.617              | 5              |
| 93  | MP2A         | Mx        | .000119            | 5              |
| 94  | MP2B         | X         | .267               | 5              |
| 95  | MP2B         | Z         | -.462              | 5              |
| 96  | MP2B         | Mx        | -.000178           | 5              |
| 97  | MP2C         | X         | .356               | 5              |
| 98  | MP2C         | Z         | -.617              | 5              |
| 99  | MP2C         | Mx        | .000119            | 5              |
| 100 | OVP          | X         | 3.48               | .75            |
| 101 | OVP          | Z         | -6.027             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 3.007              | .25            |
| 2  | MP1A         | Z         | -1.736             | .25            |
| 3  | MP1A         | Mx        | -.002              | .25            |
| 4  | MP1A         | X         | 3.007              | 4              |
| 5  | MP1A         | Z         | -1.736             | 4              |
| 6  | MP1A         | Mx        | -.002              | 4              |
| 7  | MP1B         | X         | 3.007              | .25            |
| 8  | MP1B         | Z         | -1.736             | .25            |
| 9  | MP1B         | Mx        | .002               | .25            |
| 10 | MP1B         | X         | 3.007              | 4              |
| 11 | MP1B         | Z         | -1.736             | 4              |
| 12 | MP1B         | Mx        | .002               | 4              |
| 13 | MP1C         | X         | 4.333              | .25            |
| 14 | MP1C         | Z         | -2.502             | .25            |
| 15 | MP1C         | Mx        | 0                  | .25            |
| 16 | MP1C         | X         | 4.333              | 4              |
| 17 | MP1C         | Z         | -2.502             | 4              |
| 18 | MP1C         | Mx        | 0                  | 4              |
| 19 | MP2A         | X         | 6.107              | .25            |
| 20 | MP2A         | Z         | -3.526             | .25            |
| 21 | MP2A         | Mx        | -.005              | .25            |
| 22 | MP2A         | X         | 6.107              | 5.25           |
| 23 | MP2A         | Z         | -3.526             | 5.25           |
| 24 | MP2A         | Mx        | -.005              | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2C         | X         | 8.224              | .25            |
| 26 | MP2C         | Z         | -4.748             | .25            |
| 27 | MP2C         | Mx        | .006               | .25            |
| 28 | MP2C         | X         | 8.224              | 5.25           |
| 29 | MP2C         | Z         | -4.748             | 5.25           |
| 30 | MP2C         | Mx        | .006               | 5.25           |
| 31 | MP2A         | X         | 6.107              | .25            |
| 32 | MP2A         | Z         | -3.526             | .25            |
| 33 | MP2A         | Mx        | -.000997           | .25            |
| 34 | MP2A         | X         | 6.107              | 5.25           |
| 35 | MP2A         | Z         | -3.526             | 5.25           |
| 36 | MP2A         | Mx        | -.000997           | 5.25           |
| 37 | MP2C         | X         | 8.224              | .25            |
| 38 | MP2C         | Z         | -4.748             | .25            |
| 39 | MP2C         | Mx        | -.006              | .25            |
| 40 | MP2C         | X         | 8.224              | 5.25           |
| 41 | MP2C         | Z         | -4.748             | 5.25           |
| 42 | MP2C         | Mx        | -.006              | 5.25           |
| 43 | MP2B         | X         | 5.756              | .25            |
| 44 | MP2B         | Z         | -3.323             | .25            |
| 45 | MP2B         | Mx        | .000846            | .25            |
| 46 | MP2B         | X         | 5.756              | 5.25           |
| 47 | MP2B         | Z         | -3.323             | 5.25           |
| 48 | MP2B         | Mx        | .000846            | 5.25           |
| 49 | MP2B         | X         | 5.756              | .25            |
| 50 | MP2B         | Z         | -3.323             | .25            |
| 51 | MP2B         | Mx        | .005               | .25            |
| 52 | MP2B         | X         | 5.756              | 5.25           |
| 53 | MP2B         | Z         | -3.323             | 5.25           |
| 54 | MP2B         | Mx        | .005               | 5.25           |
| 55 | MP4A         | X         | 2.307              | 1.13           |
| 56 | MP4A         | Z         | -1.332             | 1.13           |
| 57 | MP4A         | Mx        | -.001              | 1.13           |
| 58 | MP4A         | X         | 2.307              | 3.13           |
| 59 | MP4A         | Z         | -1.332             | 3.13           |
| 60 | MP4A         | Mx        | -.001              | 3.13           |
| 61 | MP4B         | X         | 2.122              | 1.13           |
| 62 | MP4B         | Z         | -1.225             | 1.13           |
| 63 | MP4B         | Mx        | .001               | 1.13           |
| 64 | MP4B         | X         | 2.122              | 3.13           |
| 65 | MP4B         | Z         | -1.225             | 3.13           |
| 66 | MP4B         | Mx        | .001               | 3.13           |
| 67 | MP4C         | X         | 4.243              | 1.13           |
| 68 | MP4C         | Z         | -2.45              | 1.13           |
| 69 | MP4C         | Mx        | 0                  | 1.13           |
| 70 | MP4C         | X         | 4.243              | 3.13           |
| 71 | MP4C         | Z         | -2.45              | 3.13           |
| 72 | MP4C         | Mx        | 0                  | 3.13           |
| 73 | MP1A         | X         | 2.537              | 2              |
| 74 | MP1A         | Z         | -1.465             | 2              |
| 75 | MP1A         | Mx        | .000846            | 2              |
| 76 | MP1B         | X         | 2.537              | 2              |
| 77 | MP1B         | Z         | -1.465             | 2              |
| 78 | MP1B         | Mx        | -.000846           | 2              |
| 79 | MP1C         | X         | 3.376              | 2              |
| 80 | MP1C         | Z         | -1.949             | 2              |
| 81 | MP1C         | Mx        | 0                  | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 82  | MP2A         | X         | 2.384              | 2              |
| 83  | MP2A         | Z         | -1.377             | 2              |
| 84  | MP2A         | Mx        | .000795            | 2              |
| 85  | MP2B         | X         | 2.384              | 2              |
| 86  | MP2B         | Z         | -1.377             | 2              |
| 87  | MP2B         | Mx        | -.000795           | 2              |
| 88  | MP2C         | X         | 3.376              | 2              |
| 89  | MP2C         | Z         | -1.949             | 2              |
| 90  | MP2C         | Mx        | 0                  | 2              |
| 91  | MP2A         | X         | .514               | 5              |
| 92  | MP2A         | Z         | -.297              | 5              |
| 93  | MP2A         | Mx        | .000171            | 5              |
| 94  | MP2B         | X         | .514               | 5              |
| 95  | MP2B         | Z         | -.297              | 5              |
| 96  | MP2B         | Mx        | -.000171           | 5              |
| 97  | MP2C         | X         | .668               | 5              |
| 98  | MP2C         | Z         | -.386              | 5              |
| 99  | MP2C         | Mx        | 0                  | 5              |
| 100 | OVP          | X         | 6.896              | .75            |
| 101 | OVP          | Z         | -3.981             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 2.962              | .25            |
| 2  | MP1A         | Z         | 0                  | .25            |
| 3  | MP1A         | Mx        | -.001              | .25            |
| 4  | MP1A         | X         | 2.962              | 4              |
| 5  | MP1A         | Z         | 0                  | 4              |
| 6  | MP1A         | Mx        | -.001              | 4              |
| 7  | MP1B         | X         | 4.493              | .25            |
| 8  | MP1B         | Z         | 0                  | .25            |
| 9  | MP1B         | Mx        | .001               | .25            |
| 10 | MP1B         | X         | 4.493              | 4              |
| 11 | MP1B         | Z         | 0                  | 4              |
| 12 | MP1B         | Mx        | .001               | 4              |
| 13 | MP1C         | X         | 4.493              | .25            |
| 14 | MP1C         | Z         | 0                  | .25            |
| 15 | MP1C         | Mx        | .001               | .25            |
| 16 | MP1C         | X         | 4.493              | 4              |
| 17 | MP1C         | Z         | 0                  | 4              |
| 18 | MP1C         | Mx        | .001               | 4              |
| 19 | MP2A         | X         | 6.237              | .25            |
| 20 | MP2A         | Z         | 0                  | .25            |
| 21 | MP2A         | Mx        | -.003              | .25            |
| 22 | MP2A         | X         | 6.237              | 5.25           |
| 23 | MP2A         | Z         | 0                  | 5.25           |
| 24 | MP2A         | Mx        | -.003              | 5.25           |
| 25 | MP2C         | X         | 8.682              | .25            |
| 26 | MP2C         | Z         | 0                  | .25            |
| 27 | MP2C         | Mx        | .007               | .25            |
| 28 | MP2C         | X         | 8.682              | 5.25           |
| 29 | MP2C         | Z         | 0                  | 5.25           |
| 30 | MP2C         | Mx        | .007               | 5.25           |
| 31 | MP2A         | X         | 6.237              | .25            |
| 32 | MP2A         | Z         | 0                  | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A         | Mx        | -.003              | .25            |
| 34 | MP2A         | X         | 6.237              | 5.25           |
| 35 | MP2A         | Z         | 0                  | 5.25           |
| 36 | MP2A         | Mx        | -.003              | 5.25           |
| 37 | MP2C         | X         | 8.682              | .25            |
| 38 | MP2C         | Z         | 0                  | .25            |
| 39 | MP2C         | Mx        | -.002              | .25            |
| 40 | MP2C         | X         | 8.682              | 5.25           |
| 41 | MP2C         | Z         | 0                  | 5.25           |
| 42 | MP2C         | Mx        | -.002              | 5.25           |
| 43 | MP2B         | X         | 9.786              | .25            |
| 44 | MP2B         | Z         | 0                  | .25            |
| 45 | MP2B         | Mx        | -.003              | .25            |
| 46 | MP2B         | X         | 9.786              | 5.25           |
| 47 | MP2B         | Z         | 0                  | 5.25           |
| 48 | MP2B         | Mx        | -.003              | 5.25           |
| 49 | MP2B         | X         | 9.786              | .25            |
| 50 | MP2B         | Z         | 0                  | .25            |
| 51 | MP2B         | Mx        | .009               | .25            |
| 52 | MP2B         | X         | 9.786              | 5.25           |
| 53 | MP2B         | Z         | 0                  | 5.25           |
| 54 | MP2B         | Mx        | .009               | 5.25           |
| 55 | MP4A         | X         | 1.918              | 1.13           |
| 56 | MP4A         | Z         | 0                  | 1.13           |
| 57 | MP4A         | Mx        | -.000959           | 1.13           |
| 58 | MP4A         | X         | 1.918              | 3.13           |
| 59 | MP4A         | Z         | 0                  | 3.13           |
| 60 | MP4A         | Mx        | -.000959           | 3.13           |
| 61 | MP4B         | X         | 3.919              | 1.13           |
| 62 | MP4B         | Z         | 0                  | 1.13           |
| 63 | MP4B         | Mx        | .001               | 1.13           |
| 64 | MP4B         | X         | 3.919              | 3.13           |
| 65 | MP4B         | Z         | 0                  | 3.13           |
| 66 | MP4B         | Mx        | .001               | 3.13           |
| 67 | MP4C         | X         | 4.154              | 1.13           |
| 68 | MP4C         | Z         | 0                  | 1.13           |
| 69 | MP4C         | Mx        | .001               | 1.13           |
| 70 | MP4C         | X         | 4.154              | 3.13           |
| 71 | MP4C         | Z         | 0                  | 3.13           |
| 72 | MP4C         | Mx        | .001               | 3.13           |
| 73 | MP1A         | X         | 2.606              | 2              |
| 74 | MP1A         | Z         | 0                  | 2              |
| 75 | MP1A         | Mx        | .000869            | 2              |
| 76 | MP1B         | X         | 3.575              | 2              |
| 77 | MP1B         | Z         | 0                  | 2              |
| 78 | MP1B         | Mx        | -.000596           | 2              |
| 79 | MP1C         | X         | 3.575              | 2              |
| 80 | MP1C         | Z         | 0                  | 2              |
| 81 | MP1C         | Mx        | -.000596           | 2              |
| 82 | MP2A         | X         | 2.371              | 2              |
| 83 | MP2A         | Z         | 0                  | 2              |
| 84 | MP2A         | Mx        | .00079             | 2              |
| 85 | MP2B         | X         | 3.517              | 2              |
| 86 | MP2B         | Z         | 0                  | 2              |
| 87 | MP2B         | Mx        | -.000586           | 2              |
| 88 | MP2C         | X         | 3.517              | 2              |
| 89 | MP2C         | Z         | 0                  | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 90  | MP2C         | Mx        | -.000586           | 2              |
| 91  | MP2A         | X         | .534               | 5              |
| 92  | MP2A         | Z         | 0                  | 5              |
| 93  | MP2A         | Mx        | .000178            | 5              |
| 94  | MP2B         | X         | .712               | 5              |
| 95  | MP2B         | Z         | 0                  | 5              |
| 96  | MP2B         | Mx        | -.000119           | 5              |
| 97  | MP2C         | X         | .712               | 5              |
| 98  | MP2C         | Z         | 0                  | 5              |
| 99  | MP2C         | Mx        | -.000119           | 5              |
| 100 | OVP          | X         | 8.464              | .75            |
| 101 | OVP          | Z         | 0                  | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 3.007              | .25            |
| 2  | MP1A         | Z         | 1.736              | .25            |
| 3  | MP1A         | Mx        | -.002              | .25            |
| 4  | MP1A         | X         | 3.007              | 4              |
| 5  | MP1A         | Z         | 1.736              | 4              |
| 6  | MP1A         | Mx        | -.002              | 4              |
| 7  | MP1B         | X         | 4.333              | .25            |
| 8  | MP1B         | Z         | 2.502              | .25            |
| 9  | MP1B         | Mx        | 0                  | .25            |
| 10 | MP1B         | X         | 4.333              | 4              |
| 11 | MP1B         | Z         | 2.502              | 4              |
| 12 | MP1B         | Mx        | 0                  | 4              |
| 13 | MP1C         | X         | 3.007              | .25            |
| 14 | MP1C         | Z         | 1.736              | .25            |
| 15 | MP1C         | Mx        | .002               | .25            |
| 16 | MP1C         | X         | 3.007              | 4              |
| 17 | MP1C         | Z         | 1.736              | 4              |
| 18 | MP1C         | Mx        | .002               | 4              |
| 19 | MP2A         | X         | 6.107              | .25            |
| 20 | MP2A         | Z         | 3.526              | .25            |
| 21 | MP2A         | Mx        | -.000997           | .25            |
| 22 | MP2A         | X         | 6.107              | 5.25           |
| 23 | MP2A         | Z         | 3.526              | 5.25           |
| 24 | MP2A         | Mx        | -.000997           | 5.25           |
| 25 | MP2C         | X         | 6.107              | .25            |
| 26 | MP2C         | Z         | 3.526              | .25            |
| 27 | MP2C         | Mx        | .005               | .25            |
| 28 | MP2C         | X         | 6.107              | 5.25           |
| 29 | MP2C         | Z         | 3.526              | 5.25           |
| 30 | MP2C         | Mx        | .005               | 5.25           |
| 31 | MP2A         | X         | 6.107              | .25            |
| 32 | MP2A         | Z         | 3.526              | .25            |
| 33 | MP2A         | Mx        | -.005              | .25            |
| 34 | MP2A         | X         | 6.107              | 5.25           |
| 35 | MP2A         | Z         | 3.526              | 5.25           |
| 36 | MP2A         | Mx        | -.005              | 5.25           |
| 37 | MP2C         | X         | 6.107              | .25            |
| 38 | MP2C         | Z         | 3.526              | .25            |
| 39 | MP2C         | Mx        | .000997            | .25            |
| 40 | MP2C         | X         | 6.107              | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 41 | MP2C         | Z         | 3.526              | 5.25           |
| 42 | MP2C         | Mx        | .000997            | 5.25           |
| 43 | MP2B         | X         | 10.25              | .25            |
| 44 | MP2B         | Z         | 5.918              | .25            |
| 45 | MP2B         | Mx        | -.009              | .25            |
| 46 | MP2B         | X         | 10.25              | 5.25           |
| 47 | MP2B         | Z         | 5.918              | 5.25           |
| 48 | MP2B         | Mx        | -.009              | 5.25           |
| 49 | MP2B         | X         | 10.25              | .25            |
| 50 | MP2B         | Z         | 5.918              | .25            |
| 51 | MP2B         | Mx        | .01                | .25            |
| 52 | MP2B         | X         | 10.25              | 5.25           |
| 53 | MP2B         | Z         | 5.918              | 5.25           |
| 54 | MP2B         | Mx        | .01                | 5.25           |
| 55 | MP4A         | X         | 2.307              | 1.13           |
| 56 | MP4A         | Z         | 1.332              | 1.13           |
| 57 | MP4A         | Mx        | -.001              | 1.13           |
| 58 | MP4A         | X         | 2.307              | 3.13           |
| 59 | MP4A         | Z         | 1.332              | 3.13           |
| 60 | MP4A         | Mx        | -.001              | 3.13           |
| 61 | MP4B         | X         | 4.223              | 1.13           |
| 62 | MP4B         | Z         | 2.438              | 1.13           |
| 63 | MP4B         | Mx        | .000213            | 1.13           |
| 64 | MP4B         | X         | 4.223              | 3.13           |
| 65 | MP4B         | Z         | 2.438              | 3.13           |
| 66 | MP4B         | Mx        | .000213            | 3.13           |
| 67 | MP4C         | X         | 2.307              | 1.13           |
| 68 | MP4C         | Z         | 1.332              | 1.13           |
| 69 | MP4C         | Mx        | .001               | 1.13           |
| 70 | MP4C         | X         | 2.307              | 3.13           |
| 71 | MP4C         | Z         | 1.332              | 3.13           |
| 72 | MP4C         | Mx        | .001               | 3.13           |
| 73 | MP1A         | X         | 2.537              | 2              |
| 74 | MP1A         | Z         | 1.465              | 2              |
| 75 | MP1A         | Mx        | .000846            | 2              |
| 76 | MP1B         | X         | 3.376              | 2              |
| 77 | MP1B         | Z         | 1.949              | 2              |
| 78 | MP1B         | Mx        | 0                  | 2              |
| 79 | MP1C         | X         | 2.537              | 2              |
| 80 | MP1C         | Z         | 1.465              | 2              |
| 81 | MP1C         | Mx        | -.000846           | 2              |
| 82 | MP2A         | X         | 2.384              | 2              |
| 83 | MP2A         | Z         | 1.377              | 2              |
| 84 | MP2A         | Mx        | .000795            | 2              |
| 85 | MP2B         | X         | 3.376              | 2              |
| 86 | MP2B         | Z         | 1.949              | 2              |
| 87 | MP2B         | Mx        | 0                  | 2              |
| 88 | MP2C         | X         | 2.384              | 2              |
| 89 | MP2C         | Z         | 1.377              | 2              |
| 90 | MP2C         | Mx        | -.000795           | 2              |
| 91 | MP2A         | X         | .514               | 5              |
| 92 | MP2A         | Z         | .297               | 5              |
| 93 | MP2A         | Mx        | .000171            | 5              |
| 94 | MP2B         | X         | .668               | 5              |
| 95 | MP2B         | Z         | .386               | 5              |
| 96 | MP2B         | Mx        | 0                  | 5              |
| 97 | MP2C         | X         | .514               | 5              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 98  | MP2C         | Z         | .297               | 5              |
| 99  | MP2C         | Mx        | -.000171           | 5              |
| 100 | OVP          | X         | 6.896              | .75            |
| 101 | OVP          | Z         | 3.981              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 2.247              | .25            |
| 2  | MP1A         | Z         | 3.891              | .25            |
| 3  | MP1A         | Mx        | -.001              | .25            |
| 4  | MP1A         | X         | 2.247              | 4              |
| 5  | MP1A         | Z         | 3.891              | 4              |
| 6  | MP1A         | Mx        | -.001              | 4              |
| 7  | MP1B         | X         | 2.247              | .25            |
| 8  | MP1B         | Z         | 3.891              | .25            |
| 9  | MP1B         | Mx        | -.001              | .25            |
| 10 | MP1B         | X         | 2.247              | 4              |
| 11 | MP1B         | Z         | 3.891              | 4              |
| 12 | MP1B         | Mx        | -.001              | 4              |
| 13 | MP1C         | X         | 1.481              | .25            |
| 14 | MP1C         | Z         | 2.565              | .25            |
| 15 | MP1C         | Mx        | .001               | .25            |
| 16 | MP1C         | X         | 1.481              | 4              |
| 17 | MP1C         | Z         | 2.565              | 4              |
| 18 | MP1C         | Mx        | .001               | 4              |
| 19 | MP2A         | X         | 4.341              | .25            |
| 20 | MP2A         | Z         | 7.518              | .25            |
| 21 | MP2A         | Mx        | .002               | .25            |
| 22 | MP2A         | X         | 4.341              | 5.25           |
| 23 | MP2A         | Z         | 7.518              | 5.25           |
| 24 | MP2A         | Mx        | .002               | 5.25           |
| 25 | MP2C         | X         | 3.119              | .25            |
| 26 | MP2C         | Z         | 5.402              | .25            |
| 27 | MP2C         | Mx        | .003               | .25            |
| 28 | MP2C         | X         | 3.119              | 5.25           |
| 29 | MP2C         | Z         | 5.402              | 5.25           |
| 30 | MP2C         | Mx        | .003               | 5.25           |
| 31 | MP2A         | X         | 4.341              | .25            |
| 32 | MP2A         | Z         | 7.518              | .25            |
| 33 | MP2A         | Mx        | -.007              | .25            |
| 34 | MP2A         | X         | 4.341              | 5.25           |
| 35 | MP2A         | Z         | 7.518              | 5.25           |
| 36 | MP2A         | Mx        | -.007              | 5.25           |
| 37 | MP2C         | X         | 3.119              | .25            |
| 38 | MP2C         | Z         | 5.402              | .25            |
| 39 | MP2C         | Mx        | .003               | .25            |
| 40 | MP2C         | X         | 3.119              | 5.25           |
| 41 | MP2C         | Z         | 5.402              | 5.25           |
| 42 | MP2C         | Mx        | .003               | 5.25           |
| 43 | MP2B         | X         | 5.372              | .25            |
| 44 | MP2B         | Z         | 9.305              | .25            |
| 45 | MP2B         | Mx        | -.01               | .25            |
| 46 | MP2B         | X         | 5.372              | 5.25           |
| 47 | MP2B         | Z         | 9.305              | 5.25           |
| 48 | MP2B         | Mx        | -.01               | 5.25           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 49  | MP2B         | X         | 5.372              | .25            |
| 50  | MP2B         | Z         | 9.305              | .25            |
| 51  | MP2B         | Mx        | .005               | .25            |
| 52  | MP2B         | X         | 5.372              | 5.25           |
| 53  | MP2B         | Z         | 9.305              | 5.25           |
| 54  | MP2B         | Mx        | .005               | 5.25           |
| 55  | MP4A         | X         | 2.077              | 1.13           |
| 56  | MP4A         | Z         | 3.598              | 1.13           |
| 57  | MP4A         | Mx        | -.001              | 1.13           |
| 58  | MP4A         | X         | 2.077              | 3.13           |
| 59  | MP4A         | Z         | 3.598              | 3.13           |
| 60  | MP4A         | Mx        | -.001              | 3.13           |
| 61  | MP4B         | X         | 2.183              | 1.13           |
| 62  | MP4B         | Z         | 3.782              | 1.13           |
| 63  | MP4B         | Mx        | -.000923           | 1.13           |
| 64  | MP4B         | X         | 2.183              | 3.13           |
| 65  | MP4B         | Z         | 3.782              | 3.13           |
| 66  | MP4B         | Mx        | -.000923           | 3.13           |
| 67  | MP4C         | X         | .959               | 1.13           |
| 68  | MP4C         | Z         | 1.661              | 1.13           |
| 69  | MP4C         | Mx        | .000959            | 1.13           |
| 70  | MP4C         | X         | .959               | 3.13           |
| 71  | MP4C         | Z         | 1.661              | 3.13           |
| 72  | MP4C         | Mx        | .000959            | 3.13           |
| 73  | MP1A         | X         | 1.788              | 2              |
| 74  | MP1A         | Z         | 3.096              | 2              |
| 75  | MP1A         | Mx        | .000596            | 2              |
| 76  | MP1B         | X         | 1.788              | 2              |
| 77  | MP1B         | Z         | 3.096              | 2              |
| 78  | MP1B         | Mx        | .000596            | 2              |
| 79  | MP1C         | X         | 1.303              | 2              |
| 80  | MP1C         | Z         | 2.257              | 2              |
| 81  | MP1C         | Mx        | -.000869           | 2              |
| 82  | MP2A         | X         | 1.758              | 2              |
| 83  | MP2A         | Z         | 3.046              | 2              |
| 84  | MP2A         | Mx        | .000586            | 2              |
| 85  | MP2B         | X         | 1.758              | 2              |
| 86  | MP2B         | Z         | 3.046              | 2              |
| 87  | MP2B         | Mx        | .000586            | 2              |
| 88  | MP2C         | X         | 1.186              | 2              |
| 89  | MP2C         | Z         | 2.054              | 2              |
| 90  | MP2C         | Mx        | -.000791           | 2              |
| 91  | MP2A         | X         | .356               | 5              |
| 92  | MP2A         | Z         | .617               | 5              |
| 93  | MP2A         | Mx        | .000119            | 5              |
| 94  | MP2B         | X         | .356               | 5              |
| 95  | MP2B         | Z         | .617               | 5              |
| 96  | MP2B         | Mx        | .000119            | 5              |
| 97  | MP2C         | X         | .267               | 5              |
| 98  | MP2C         | Z         | .462               | 5              |
| 99  | MP2C         | Mx        | -.000178           | 5              |
| 100 | OVP          | X         | 3.48               | .75            |
| 101 | OVP          | Z         | 6.027              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k.ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| RISA-3D Version 17.0.4 [R:\...\Mount Fix\Rev 0\RISA\MOD - 468078-VZW_MT_LO_H.r3d] Page 71 |              |           |                    |                |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | 0                  | .25            |
| 2  | MP1A         | Z         | 5.004              | .25            |
| 3  | MP1A         | Mx        | 0                  | .25            |
| 4  | MP1A         | X         | 0                  | 4              |
| 5  | MP1A         | Z         | 5.004              | 4              |
| 6  | MP1A         | Mx        | 0                  | 4              |
| 7  | MP1B         | X         | 0                  | .25            |
| 8  | MP1B         | Z         | 3.473              | .25            |
| 9  | MP1B         | Mx        | -.002              | .25            |
| 10 | MP1B         | X         | 0                  | 4              |
| 11 | MP1B         | Z         | 3.473              | 4              |
| 12 | MP1B         | Mx        | -.002              | 4              |
| 13 | MP1C         | X         | 0                  | .25            |
| 14 | MP1C         | Z         | 3.473              | .25            |
| 15 | MP1C         | Mx        | .002               | .25            |
| 16 | MP1C         | X         | 0                  | 4              |
| 17 | MP1C         | Z         | 3.473              | 4              |
| 18 | MP1C         | Mx        | .002               | 4              |
| 19 | MP2A         | X         | 0                  | .25            |
| 20 | MP2A         | Z         | 9.496              | .25            |
| 21 | MP2A         | Mx        | .006               | .25            |
| 22 | MP2A         | X         | 0                  | 5.25           |
| 23 | MP2A         | Z         | 9.496              | 5.25           |
| 24 | MP2A         | Mx        | .006               | 5.25           |
| 25 | MP2C         | X         | 0                  | .25            |
| 26 | MP2C         | Z         | 7.052              | .25            |
| 27 | MP2C         | Mx        | .000997            | .25            |
| 28 | MP2C         | X         | 0                  | 5.25           |
| 29 | MP2C         | Z         | 7.052              | 5.25           |
| 30 | MP2C         | Mx        | .000997            | 5.25           |
| 31 | MP2A         | X         | 0                  | .25            |
| 32 | MP2A         | Z         | 9.496              | .25            |
| 33 | MP2A         | Mx        | -.006              | .25            |
| 34 | MP2A         | X         | 0                  | 5.25           |
| 35 | MP2A         | Z         | 9.496              | 5.25           |
| 36 | MP2A         | Mx        | -.006              | 5.25           |
| 37 | MP2C         | X         | 0                  | .25            |
| 38 | MP2C         | Z         | 7.052              | .25            |
| 39 | MP2C         | Mx        | .005               | .25            |
| 40 | MP2C         | X         | 0                  | 5.25           |
| 41 | MP2C         | Z         | 7.052              | 5.25           |
| 42 | MP2C         | Mx        | .005               | 5.25           |
| 43 | MP2B         | X         | 0                  | .25            |
| 44 | MP2B         | Z         | 7.605              | .25            |
| 45 | MP2B         | Mx        | -.006              | .25            |
| 46 | MP2B         | X         | 0                  | 5.25           |
| 47 | MP2B         | Z         | 7.605              | 5.25           |
| 48 | MP2B         | Mx        | -.006              | 5.25           |
| 49 | MP2B         | X         | 0                  | .25            |
| 50 | MP2B         | Z         | 7.605              | .25            |
| 51 | MP2B         | Mx        | .000248            | .25            |
| 52 | MP2B         | X         | 0                  | 5.25           |
| 53 | MP2B         | Z         | 7.605              | 5.25           |
| 54 | MP2B         | Mx        | .000248            | 5.25           |
| 55 | MP4A         | X         | 0                  | 1.13           |
| 56 | MP4A         | Z         | 4.899              | 1.13           |
| 57 | MP4A         | Mx        | 0                  | 1.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 58  | MP4A         | X         | 0                  | 3.13           |
| 59  | MP4A         | Z         | 4.899              | 3.13           |
| 60  | MP4A         | Mx        | 0                  | 3.13           |
| 61  | MP4B         | X         | 0                  | 1.13           |
| 62  | MP4B         | Z         | 2.899              | 1.13           |
| 63  | MP4B         | Mx        | -.001              | 1.13           |
| 64  | MP4B         | X         | 0                  | 3.13           |
| 65  | MP4B         | Z         | 2.899              | 3.13           |
| 66  | MP4B         | Mx        | -.001              | 3.13           |
| 67  | MP4C         | X         | 0                  | 1.13           |
| 68  | MP4C         | Z         | 2.663              | 1.13           |
| 69  | MP4C         | Mx        | .001               | 1.13           |
| 70  | MP4C         | X         | 0                  | 3.13           |
| 71  | MP4C         | Z         | 2.663              | 3.13           |
| 72  | MP4C         | Mx        | .001               | 3.13           |
| 73  | MP1A         | X         | 0                  | 2              |
| 74  | MP1A         | Z         | 3.899              | 2              |
| 75  | MP1A         | Mx        | 0                  | 2              |
| 76  | MP1B         | X         | 0                  | 2              |
| 77  | MP1B         | Z         | 2.929              | 2              |
| 78  | MP1B         | Mx        | .000846            | 2              |
| 79  | MP1C         | X         | 0                  | 2              |
| 80  | MP1C         | Z         | 2.929              | 2              |
| 81  | MP1C         | Mx        | -.000846           | 2              |
| 82  | MP2A         | X         | 0                  | 2              |
| 83  | MP2A         | Z         | 3.899              | 2              |
| 84  | MP2A         | Mx        | 0                  | 2              |
| 85  | MP2B         | X         | 0                  | 2              |
| 86  | MP2B         | Z         | 2.753              | 2              |
| 87  | MP2B         | Mx        | .000795            | 2              |
| 88  | MP2C         | X         | 0                  | 2              |
| 89  | MP2C         | Z         | 2.753              | 2              |
| 90  | MP2C         | Mx        | -.000795           | 2              |
| 91  | MP2A         | X         | 0                  | 5              |
| 92  | MP2A         | Z         | .771               | 5              |
| 93  | MP2A         | Mx        | 0                  | 5              |
| 94  | MP2B         | X         | 0                  | 5              |
| 95  | MP2B         | Z         | .593               | 5              |
| 96  | MP2B         | Mx        | .000171            | 5              |
| 97  | MP2C         | X         | 0                  | 5              |
| 98  | MP2C         | Z         | .593               | 5              |
| 99  | MP2C         | Mx        | -.000171           | 5              |
| 100 | OVP          | X         | 0                  | .75            |
| 101 | OVP          | Z         | 6.458              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP1A         | X         | -2.247             | .25            |
| 2 | MP1A         | Z         | 3.891              | .25            |
| 3 | MP1A         | Mx        | .001               | .25            |
| 4 | MP1A         | X         | -2.247             | 4              |
| 5 | MP1A         | Z         | 3.891              | 4              |
| 6 | MP1A         | Mx        | .001               | 4              |
| 7 | MP1B         | X         | -1.481             | .25            |
| 8 | MP1B         | Z         | 2.565              | .25            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 9  | MP1B         | Mx        | -.001              | .25            |
| 10 | MP1B         | X         | -1.481             | 4              |
| 11 | MP1B         | Z         | 2.565              | 4              |
| 12 | MP1B         | Mx        | -.001              | 4              |
| 13 | MP1C         | X         | -2.247             | .25            |
| 14 | MP1C         | Z         | 3.891              | .25            |
| 15 | MP1C         | Mx        | .001               | .25            |
| 16 | MP1C         | X         | -2.247             | 4              |
| 17 | MP1C         | Z         | 3.891              | 4              |
| 18 | MP1C         | Mx        | .001               | 4              |
| 19 | MP2A         | X         | -4.341             | .25            |
| 20 | MP2A         | Z         | 7.518              | .25            |
| 21 | MP2A         | Mx        | .007               | .25            |
| 22 | MP2A         | X         | -4.341             | 5.25           |
| 23 | MP2A         | Z         | 7.518              | 5.25           |
| 24 | MP2A         | Mx        | .007               | 5.25           |
| 25 | MP2C         | X         | -4.341             | .25            |
| 26 | MP2C         | Z         | 7.518              | .25            |
| 27 | MP2C         | Mx        | -.002              | .25            |
| 28 | MP2C         | X         | -4.341             | 5.25           |
| 29 | MP2C         | Z         | 7.518              | 5.25           |
| 30 | MP2C         | Mx        | -.002              | 5.25           |
| 31 | MP2A         | X         | -4.341             | .25            |
| 32 | MP2A         | Z         | 7.518              | .25            |
| 33 | MP2A         | Mx        | -.002              | .25            |
| 34 | MP2A         | X         | -4.341             | 5.25           |
| 35 | MP2A         | Z         | 7.518              | 5.25           |
| 36 | MP2A         | Mx        | -.002              | 5.25           |
| 37 | MP2C         | X         | -4.341             | .25            |
| 38 | MP2C         | Z         | 7.518              | .25            |
| 39 | MP2C         | Mx        | .007               | .25            |
| 40 | MP2C         | X         | -4.341             | 5.25           |
| 41 | MP2C         | Z         | 7.518              | 5.25           |
| 42 | MP2C         | Mx        | .007               | 5.25           |
| 43 | MP2B         | X         | -2.778             | .25            |
| 44 | MP2B         | Z         | 4.812              | .25            |
| 45 | MP2B         | Mx        | -.003              | .25            |
| 46 | MP2B         | X         | -2.778             | 5.25           |
| 47 | MP2B         | Z         | 4.812              | 5.25           |
| 48 | MP2B         | Mx        | -.003              | 5.25           |
| 49 | MP2B         | X         | -2.778             | .25            |
| 50 | MP2B         | Z         | 4.812              | .25            |
| 51 | MP2B         | Mx        | -.002              | .25            |
| 52 | MP2B         | X         | -2.778             | 5.25           |
| 53 | MP2B         | Z         | 4.812              | 5.25           |
| 54 | MP2B         | Mx        | -.002              | 5.25           |
| 55 | MP4A         | X         | -2.077             | 1.13           |
| 56 | MP4A         | Z         | 3.598              | 1.13           |
| 57 | MP4A         | Mx        | .001               | 1.13           |
| 58 | MP4A         | X         | -2.077             | 3.13           |
| 59 | MP4A         | Z         | 3.598              | 3.13           |
| 60 | MP4A         | Mx        | .001               | 3.13           |
| 61 | MP4B         | X         | -.97               | 1.13           |
| 62 | MP4B         | Z         | 1.681              | 1.13           |
| 63 | MP4B         | Mx        | -.000967           | 1.13           |
| 64 | MP4B         | X         | -.97               | 3.13           |
| 65 | MP4B         | Z         | 1.681              | 3.13           |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 66  | MP4B         | Mx        | -0.00967           | 3.13           |
| 67  | MP4C         | X         | -2.077             | 1.13           |
| 68  | MP4C         | Z         | 3.598              | 1.13           |
| 69  | MP4C         | Mx        | .001               | 1.13           |
| 70  | MP4C         | X         | -2.077             | 3.13           |
| 71  | MP4C         | Z         | 3.598              | 3.13           |
| 72  | MP4C         | Mx        | .001               | 3.13           |
| 73  | MP1A         | X         | -1.788             | 2              |
| 74  | MP1A         | Z         | 3.096              | 2              |
| 75  | MP1A         | Mx        | -0.00596           | 2              |
| 76  | MP1B         | X         | -1.303             | 2              |
| 77  | MP1B         | Z         | 2.257              | 2              |
| 78  | MP1B         | Mx        | .000869            | 2              |
| 79  | MP1C         | X         | -1.788             | 2              |
| 80  | MP1C         | Z         | 3.096              | 2              |
| 81  | MP1C         | Mx        | -0.00596           | 2              |
| 82  | MP2A         | X         | -1.758             | 2              |
| 83  | MP2A         | Z         | 3.046              | 2              |
| 84  | MP2A         | Mx        | -0.00586           | 2              |
| 85  | MP2B         | X         | -1.186             | 2              |
| 86  | MP2B         | Z         | 2.054              | 2              |
| 87  | MP2B         | Mx        | .000791            | 2              |
| 88  | MP2C         | X         | -1.758             | 2              |
| 89  | MP2C         | Z         | 3.046              | 2              |
| 90  | MP2C         | Mx        | -0.00586           | 2              |
| 91  | MP2A         | X         | -.356              | 5              |
| 92  | MP2A         | Z         | .617               | 5              |
| 93  | MP2A         | Mx        | -0.00119           | 5              |
| 94  | MP2B         | X         | -.267              | 5              |
| 95  | MP2B         | Z         | .462               | 5              |
| 96  | MP2B         | Mx        | .000178            | 5              |
| 97  | MP2C         | X         | -.356              | 5              |
| 98  | MP2C         | Z         | .617               | 5              |
| 99  | MP2C         | Mx        | -0.00119           | 5              |
| 100 | OVP          | X         | -3.48              | .75            |
| 101 | OVP          | Z         | 6.027              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -3.007             | .25            |
| 2  | MP1A         | Z         | 1.736              | .25            |
| 3  | MP1A         | Mx        | .002               | .25            |
| 4  | MP1A         | X         | -3.007             | 4              |
| 5  | MP1A         | Z         | 1.736              | 4              |
| 6  | MP1A         | Mx        | .002               | 4              |
| 7  | MP1B         | X         | -3.007             | .25            |
| 8  | MP1B         | Z         | 1.736              | .25            |
| 9  | MP1B         | Mx        | -.002              | .25            |
| 10 | MP1B         | X         | -3.007             | 4              |
| 11 | MP1B         | Z         | 1.736              | 4              |
| 12 | MP1B         | Mx        | -.002              | 4              |
| 13 | MP1C         | X         | -4.333             | .25            |
| 14 | MP1C         | Z         | 2.502              | .25            |
| 15 | MP1C         | Mx        | 0                  | .25            |
| 16 | MP1C         | X         | -4.333             | 4              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP1C         | Z         | 2.502              | 4              |
| 18 | MP1C         | Mx        | 0                  | 4              |
| 19 | MP2A         | X         | -6.107             | .25            |
| 20 | MP2A         | Z         | 3.526              | .25            |
| 21 | MP2A         | Mx        | .005               | .25            |
| 22 | MP2A         | X         | -6.107             | 5.25           |
| 23 | MP2A         | Z         | 3.526              | 5.25           |
| 24 | MP2A         | Mx        | .005               | 5.25           |
| 25 | MP2C         | X         | -8.224             | .25            |
| 26 | MP2C         | Z         | 4.748              | .25            |
| 27 | MP2C         | Mx        | -.006              | .25            |
| 28 | MP2C         | X         | -8.224             | 5.25           |
| 29 | MP2C         | Z         | 4.748              | 5.25           |
| 30 | MP2C         | Mx        | -.006              | 5.25           |
| 31 | MP2A         | X         | -6.107             | .25            |
| 32 | MP2A         | Z         | 3.526              | .25            |
| 33 | MP2A         | Mx        | .000997            | .25            |
| 34 | MP2A         | X         | -6.107             | 5.25           |
| 35 | MP2A         | Z         | 3.526              | 5.25           |
| 36 | MP2A         | Mx        | .000997            | 5.25           |
| 37 | MP2C         | X         | -8.224             | .25            |
| 38 | MP2C         | Z         | 4.748              | .25            |
| 39 | MP2C         | Mx        | .006               | .25            |
| 40 | MP2C         | X         | -8.224             | 5.25           |
| 41 | MP2C         | Z         | 4.748              | 5.25           |
| 42 | MP2C         | Mx        | .006               | 5.25           |
| 43 | MP2B         | X         | -5.756             | .25            |
| 44 | MP2B         | Z         | 3.323              | .25            |
| 45 | MP2B         | Mx        | -.000846           | .25            |
| 46 | MP2B         | X         | -5.756             | 5.25           |
| 47 | MP2B         | Z         | 3.323              | 5.25           |
| 48 | MP2B         | Mx        | -.000846           | 5.25           |
| 49 | MP2B         | X         | -5.756             | .25            |
| 50 | MP2B         | Z         | 3.323              | .25            |
| 51 | MP2B         | Mx        | -.005              | .25            |
| 52 | MP2B         | X         | -5.756             | 5.25           |
| 53 | MP2B         | Z         | 3.323              | 5.25           |
| 54 | MP2B         | Mx        | -.005              | 5.25           |
| 55 | MP4A         | X         | -2.307             | 1.13           |
| 56 | MP4A         | Z         | 1.332              | 1.13           |
| 57 | MP4A         | Mx        | .001               | 1.13           |
| 58 | MP4A         | X         | -2.307             | 3.13           |
| 59 | MP4A         | Z         | 1.332              | 3.13           |
| 60 | MP4A         | Mx        | .001               | 3.13           |
| 61 | MP4B         | X         | -2.122             | 1.13           |
| 62 | MP4B         | Z         | 1.225              | 1.13           |
| 63 | MP4B         | Mx        | -.001              | 1.13           |
| 64 | MP4B         | X         | -2.122             | 3.13           |
| 65 | MP4B         | Z         | 1.225              | 3.13           |
| 66 | MP4B         | Mx        | -.001              | 3.13           |
| 67 | MP4C         | X         | -4.243             | 1.13           |
| 68 | MP4C         | Z         | 2.45               | 1.13           |
| 69 | MP4C         | Mx        | 0                  | 1.13           |
| 70 | MP4C         | X         | -4.243             | 3.13           |
| 71 | MP4C         | Z         | 2.45               | 3.13           |
| 72 | MP4C         | Mx        | 0                  | 3.13           |
| 73 | MP1A         | X         | -2.537             | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 74  | MP1A         | Z         | 1.465              | 2              |
| 75  | MP1A         | Mx        | -.000846           | 2              |
| 76  | MP1B         | X         | -2.537             | 2              |
| 77  | MP1B         | Z         | 1.465              | 2              |
| 78  | MP1B         | Mx        | .000846            | 2              |
| 79  | MP1C         | X         | -3.376             | 2              |
| 80  | MP1C         | Z         | 1.949              | 2              |
| 81  | MP1C         | Mx        | 0                  | 2              |
| 82  | MP2A         | X         | -2.384             | 2              |
| 83  | MP2A         | Z         | 1.377              | 2              |
| 84  | MP2A         | Mx        | -.000795           | 2              |
| 85  | MP2B         | X         | -2.384             | 2              |
| 86  | MP2B         | Z         | 1.377              | 2              |
| 87  | MP2B         | Mx        | .000795            | 2              |
| 88  | MP2C         | X         | -3.376             | 2              |
| 89  | MP2C         | Z         | 1.949              | 2              |
| 90  | MP2C         | Mx        | 0                  | 2              |
| 91  | MP2A         | X         | -.514              | 5              |
| 92  | MP2A         | Z         | .297               | 5              |
| 93  | MP2A         | Mx        | -.000171           | 5              |
| 94  | MP2B         | X         | -.514              | 5              |
| 95  | MP2B         | Z         | .297               | 5              |
| 96  | MP2B         | Mx        | .000171            | 5              |
| 97  | MP2C         | X         | -.668              | 5              |
| 98  | MP2C         | Z         | .386               | 5              |
| 99  | MP2C         | Mx        | 0                  | 5              |
| 100 | OVP          | X         | -6.896             | .75            |
| 101 | OVP          | Z         | 3.981              | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -2.962             | .25            |
| 2  | MP1A         | Z         | 0                  | .25            |
| 3  | MP1A         | Mx        | .001               | .25            |
| 4  | MP1A         | X         | -2.962             | 4              |
| 5  | MP1A         | Z         | 0                  | 4              |
| 6  | MP1A         | Mx        | .001               | 4              |
| 7  | MP1B         | X         | -4.493             | .25            |
| 8  | MP1B         | Z         | 0                  | .25            |
| 9  | MP1B         | Mx        | -.001              | .25            |
| 10 | MP1B         | X         | -4.493             | 4              |
| 11 | MP1B         | Z         | 0                  | 4              |
| 12 | MP1B         | Mx        | -.001              | 4              |
| 13 | MP1C         | X         | -4.493             | .25            |
| 14 | MP1C         | Z         | 0                  | .25            |
| 15 | MP1C         | Mx        | -.001              | .25            |
| 16 | MP1C         | X         | -4.493             | 4              |
| 17 | MP1C         | Z         | 0                  | 4              |
| 18 | MP1C         | Mx        | -.001              | 4              |
| 19 | MP2A         | X         | -6.237             | .25            |
| 20 | MP2A         | Z         | 0                  | .25            |
| 21 | MP2A         | Mx        | .003               | .25            |
| 22 | MP2A         | X         | -6.237             | 5.25           |
| 23 | MP2A         | Z         | 0                  | 5.25           |
| 24 | MP2A         | Mx        | .003               | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP2C         | X         | -8.682             | .25            |
| 26 | MP2C         | Z         | 0                  | .25            |
| 27 | MP2C         | Mx        | -.007              | .25            |
| 28 | MP2C         | X         | -8.682             | 5.25           |
| 29 | MP2C         | Z         | 0                  | 5.25           |
| 30 | MP2C         | Mx        | -.007              | 5.25           |
| 31 | MP2A         | X         | -6.237             | .25            |
| 32 | MP2A         | Z         | 0                  | .25            |
| 33 | MP2A         | Mx        | .003               | .25            |
| 34 | MP2A         | X         | -6.237             | 5.25           |
| 35 | MP2A         | Z         | 0                  | 5.25           |
| 36 | MP2A         | Mx        | .003               | 5.25           |
| 37 | MP2C         | X         | -8.682             | .25            |
| 38 | MP2C         | Z         | 0                  | .25            |
| 39 | MP2C         | Mx        | .002               | .25            |
| 40 | MP2C         | X         | -8.682             | 5.25           |
| 41 | MP2C         | Z         | 0                  | 5.25           |
| 42 | MP2C         | Mx        | .002               | 5.25           |
| 43 | MP2B         | X         | -9.786             | .25            |
| 44 | MP2B         | Z         | 0                  | .25            |
| 45 | MP2B         | Mx        | .003               | .25            |
| 46 | MP2B         | X         | -9.786             | 5.25           |
| 47 | MP2B         | Z         | 0                  | 5.25           |
| 48 | MP2B         | Mx        | .003               | 5.25           |
| 49 | MP2B         | X         | -9.786             | .25            |
| 50 | MP2B         | Z         | 0                  | .25            |
| 51 | MP2B         | Mx        | -.009              | .25            |
| 52 | MP2B         | X         | -9.786             | 5.25           |
| 53 | MP2B         | Z         | 0                  | 5.25           |
| 54 | MP2B         | Mx        | -.009              | 5.25           |
| 55 | MP4A         | X         | -1.918             | 1.13           |
| 56 | MP4A         | Z         | 0                  | 1.13           |
| 57 | MP4A         | Mx        | .000959            | 1.13           |
| 58 | MP4A         | X         | -1.918             | 3.13           |
| 59 | MP4A         | Z         | 0                  | 3.13           |
| 60 | MP4A         | Mx        | .000959            | 3.13           |
| 61 | MP4B         | X         | -3.919             | 1.13           |
| 62 | MP4B         | Z         | 0                  | 1.13           |
| 63 | MP4B         | Mx        | -.001              | 1.13           |
| 64 | MP4B         | X         | -3.919             | 3.13           |
| 65 | MP4B         | Z         | 0                  | 3.13           |
| 66 | MP4B         | Mx        | -.001              | 3.13           |
| 67 | MP4C         | X         | -4.154             | 1.13           |
| 68 | MP4C         | Z         | 0                  | 1.13           |
| 69 | MP4C         | Mx        | -.001              | 1.13           |
| 70 | MP4C         | X         | -4.154             | 3.13           |
| 71 | MP4C         | Z         | 0                  | 3.13           |
| 72 | MP4C         | Mx        | -.001              | 3.13           |
| 73 | MP1A         | X         | -2.606             | 2              |
| 74 | MP1A         | Z         | 0                  | 2              |
| 75 | MP1A         | Mx        | -.000869           | 2              |
| 76 | MP1B         | X         | -3.575             | 2              |
| 77 | MP1B         | Z         | 0                  | 2              |
| 78 | MP1B         | Mx        | .000596            | 2              |
| 79 | MP1C         | X         | -3.575             | 2              |
| 80 | MP1C         | Z         | 0                  | 2              |
| 81 | MP1C         | Mx        | .000596            | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 82  | MP2A         | X         | -2.371             | 2              |
| 83  | MP2A         | Z         | 0                  | 2              |
| 84  | MP2A         | Mx        | -.00079            | 2              |
| 85  | MP2B         | X         | -3.517             | 2              |
| 86  | MP2B         | Z         | 0                  | 2              |
| 87  | MP2B         | Mx        | .000586            | 2              |
| 88  | MP2C         | X         | -3.517             | 2              |
| 89  | MP2C         | Z         | 0                  | 2              |
| 90  | MP2C         | Mx        | .000586            | 2              |
| 91  | MP2A         | X         | -.534              | 5              |
| 92  | MP2A         | Z         | 0                  | 5              |
| 93  | MP2A         | Mx        | -.000178           | 5              |
| 94  | MP2B         | X         | -.712              | 5              |
| 95  | MP2B         | Z         | 0                  | 5              |
| 96  | MP2B         | Mx        | .000119            | 5              |
| 97  | MP2C         | X         | -.712              | 5              |
| 98  | MP2C         | Z         | 0                  | 5              |
| 99  | MP2C         | Mx        | .000119            | 5              |
| 100 | OVP          | X         | -8.464             | .75            |
| 101 | OVP          | Z         | 0                  | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -3.007             | .25            |
| 2  | MP1A         | Z         | -1.736             | .25            |
| 3  | MP1A         | Mx        | .002               | .25            |
| 4  | MP1A         | X         | -3.007             | 4              |
| 5  | MP1A         | Z         | -1.736             | 4              |
| 6  | MP1A         | Mx        | .002               | 4              |
| 7  | MP1B         | X         | -4.333             | .25            |
| 8  | MP1B         | Z         | -2.502             | .25            |
| 9  | MP1B         | Mx        | 0                  | .25            |
| 10 | MP1B         | X         | -4.333             | 4              |
| 11 | MP1B         | Z         | -2.502             | 4              |
| 12 | MP1B         | Mx        | 0                  | 4              |
| 13 | MP1C         | X         | -3.007             | .25            |
| 14 | MP1C         | Z         | -1.736             | .25            |
| 15 | MP1C         | Mx        | -.002              | .25            |
| 16 | MP1C         | X         | -3.007             | 4              |
| 17 | MP1C         | Z         | -1.736             | 4              |
| 18 | MP1C         | Mx        | -.002              | 4              |
| 19 | MP2A         | X         | -6.107             | .25            |
| 20 | MP2A         | Z         | -3.526             | .25            |
| 21 | MP2A         | Mx        | .000997            | .25            |
| 22 | MP2A         | X         | -6.107             | 5.25           |
| 23 | MP2A         | Z         | -3.526             | 5.25           |
| 24 | MP2A         | Mx        | .000997            | 5.25           |
| 25 | MP2C         | X         | -6.107             | .25            |
| 26 | MP2C         | Z         | -3.526             | .25            |
| 27 | MP2C         | Mx        | -.005              | .25            |
| 28 | MP2C         | X         | -6.107             | 5.25           |
| 29 | MP2C         | Z         | -3.526             | 5.25           |
| 30 | MP2C         | Mx        | -.005              | 5.25           |
| 31 | MP2A         | X         | -6.107             | .25            |
| 32 | MP2A         | Z         | -3.526             | .25            |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A         | Mx        | .005               | .25            |
| 34 | MP2A         | X         | -6.107             | 5.25           |
| 35 | MP2A         | Z         | -3.526             | 5.25           |
| 36 | MP2A         | Mx        | .005               | 5.25           |
| 37 | MP2C         | X         | -6.107             | .25            |
| 38 | MP2C         | Z         | -3.526             | .25            |
| 39 | MP2C         | Mx        | -.000997           | .25            |
| 40 | MP2C         | X         | -6.107             | 5.25           |
| 41 | MP2C         | Z         | -3.526             | 5.25           |
| 42 | MP2C         | Mx        | -.000997           | 5.25           |
| 43 | MP2B         | X         | -10.25             | .25            |
| 44 | MP2B         | Z         | -5.918             | .25            |
| 45 | MP2B         | Mx        | .009               | .25            |
| 46 | MP2B         | X         | -10.25             | 5.25           |
| 47 | MP2B         | Z         | -5.918             | 5.25           |
| 48 | MP2B         | Mx        | .009               | 5.25           |
| 49 | MP2B         | X         | -10.25             | .25            |
| 50 | MP2B         | Z         | -5.918             | .25            |
| 51 | MP2B         | Mx        | -.01               | .25            |
| 52 | MP2B         | X         | -10.25             | 5.25           |
| 53 | MP2B         | Z         | -5.918             | 5.25           |
| 54 | MP2B         | Mx        | -.01               | 5.25           |
| 55 | MP4A         | X         | -2.307             | 1.13           |
| 56 | MP4A         | Z         | -1.332             | 1.13           |
| 57 | MP4A         | Mx        | .001               | 1.13           |
| 58 | MP4A         | X         | -2.307             | 3.13           |
| 59 | MP4A         | Z         | -1.332             | 3.13           |
| 60 | MP4A         | Mx        | .001               | 3.13           |
| 61 | MP4B         | X         | -4.223             | 1.13           |
| 62 | MP4B         | Z         | -2.438             | 1.13           |
| 63 | MP4B         | Mx        | -.000213           | 1.13           |
| 64 | MP4B         | X         | -4.223             | 3.13           |
| 65 | MP4B         | Z         | -2.438             | 3.13           |
| 66 | MP4B         | Mx        | -.000213           | 3.13           |
| 67 | MP4C         | X         | -2.307             | 1.13           |
| 68 | MP4C         | Z         | -1.332             | 1.13           |
| 69 | MP4C         | Mx        | -.001              | 1.13           |
| 70 | MP4C         | X         | -2.307             | 3.13           |
| 71 | MP4C         | Z         | -1.332             | 3.13           |
| 72 | MP4C         | Mx        | -.001              | 3.13           |
| 73 | MP1A         | X         | -2.537             | 2              |
| 74 | MP1A         | Z         | -1.465             | 2              |
| 75 | MP1A         | Mx        | -.000846           | 2              |
| 76 | MP1B         | X         | -3.376             | 2              |
| 77 | MP1B         | Z         | -1.949             | 2              |
| 78 | MP1B         | Mx        | 0                  | 2              |
| 79 | MP1C         | X         | -2.537             | 2              |
| 80 | MP1C         | Z         | -1.465             | 2              |
| 81 | MP1C         | Mx        | .000846            | 2              |
| 82 | MP2A         | X         | -2.384             | 2              |
| 83 | MP2A         | Z         | -1.377             | 2              |
| 84 | MP2A         | Mx        | -.000795           | 2              |
| 85 | MP2B         | X         | -3.376             | 2              |
| 86 | MP2B         | Z         | -1.949             | 2              |
| 87 | MP2B         | Mx        | 0                  | 2              |
| 88 | MP2C         | X         | -2.384             | 2              |
| 89 | MP2C         | Z         | -1.377             | 2              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 90  | MP2C         | Mx        | .000795            | 2              |
| 91  | MP2A         | X         | -.514              | 5              |
| 92  | MP2A         | Z         | -.297              | 5              |
| 93  | MP2A         | Mx        | -.000171           | 5              |
| 94  | MP2B         | X         | -.668              | 5              |
| 95  | MP2B         | Z         | -.386              | 5              |
| 96  | MP2B         | Mx        | 0                  | 5              |
| 97  | MP2C         | X         | -.514              | 5              |
| 98  | MP2C         | Z         | -.297              | 5              |
| 99  | MP2C         | Mx        | .000171            | 5              |
| 100 | OVP          | X         | -6.896             | .75            |
| 101 | OVP          | Z         | -3.981             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP1A         | X         | -2.247             | .25            |
| 2  | MP1A         | Z         | -3.891             | .25            |
| 3  | MP1A         | Mx        | .001               | .25            |
| 4  | MP1A         | X         | -2.247             | 4              |
| 5  | MP1A         | Z         | -3.891             | 4              |
| 6  | MP1A         | Mx        | .001               | 4              |
| 7  | MP1B         | X         | -2.247             | .25            |
| 8  | MP1B         | Z         | -3.891             | .25            |
| 9  | MP1B         | Mx        | .001               | .25            |
| 10 | MP1B         | X         | -2.247             | 4              |
| 11 | MP1B         | Z         | -3.891             | 4              |
| 12 | MP1B         | Mx        | .001               | 4              |
| 13 | MP1C         | X         | -1.481             | .25            |
| 14 | MP1C         | Z         | -2.565             | .25            |
| 15 | MP1C         | Mx        | -.001              | .25            |
| 16 | MP1C         | X         | -1.481             | 4              |
| 17 | MP1C         | Z         | -2.565             | 4              |
| 18 | MP1C         | Mx        | -.001              | 4              |
| 19 | MP2A         | X         | -4.341             | .25            |
| 20 | MP2A         | Z         | -7.518             | .25            |
| 21 | MP2A         | Mx        | -.002              | .25            |
| 22 | MP2A         | X         | -4.341             | 5.25           |
| 23 | MP2A         | Z         | -7.518             | 5.25           |
| 24 | MP2A         | Mx        | -.002              | 5.25           |
| 25 | MP2C         | X         | -3.119             | .25            |
| 26 | MP2C         | Z         | -5.402             | .25            |
| 27 | MP2C         | Mx        | -.003              | .25            |
| 28 | MP2C         | X         | -3.119             | 5.25           |
| 29 | MP2C         | Z         | -5.402             | 5.25           |
| 30 | MP2C         | Mx        | -.003              | 5.25           |
| 31 | MP2A         | X         | -4.341             | .25            |
| 32 | MP2A         | Z         | -7.518             | .25            |
| 33 | MP2A         | Mx        | .007               | .25            |
| 34 | MP2A         | X         | -4.341             | 5.25           |
| 35 | MP2A         | Z         | -7.518             | 5.25           |
| 36 | MP2A         | Mx        | .007               | 5.25           |
| 37 | MP2C         | X         | -3.119             | .25            |
| 38 | MP2C         | Z         | -5.402             | .25            |
| 39 | MP2C         | Mx        | -.003              | .25            |
| 40 | MP2C         | X         | -3.119             | 5.25           |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 41 | MP2C         | Z         | -5.402             | 5.25           |
| 42 | MP2C         | Mx        | -.003              | 5.25           |
| 43 | MP2B         | X         | -5.372             | .25            |
| 44 | MP2B         | Z         | -9.305             | .25            |
| 45 | MP2B         | Mx        | .01                | .25            |
| 46 | MP2B         | X         | -5.372             | 5.25           |
| 47 | MP2B         | Z         | -9.305             | 5.25           |
| 48 | MP2B         | Mx        | .01                | 5.25           |
| 49 | MP2B         | X         | -5.372             | .25            |
| 50 | MP2B         | Z         | -9.305             | .25            |
| 51 | MP2B         | Mx        | -.005              | .25            |
| 52 | MP2B         | X         | -5.372             | 5.25           |
| 53 | MP2B         | Z         | -9.305             | 5.25           |
| 54 | MP2B         | Mx        | -.005              | 5.25           |
| 55 | MP4A         | X         | -2.077             | 1.13           |
| 56 | MP4A         | Z         | -3.598             | 1.13           |
| 57 | MP4A         | Mx        | .001               | 1.13           |
| 58 | MP4A         | X         | -2.077             | 3.13           |
| 59 | MP4A         | Z         | -3.598             | 3.13           |
| 60 | MP4A         | Mx        | .001               | 3.13           |
| 61 | MP4B         | X         | -2.183             | 1.13           |
| 62 | MP4B         | Z         | -3.782             | 1.13           |
| 63 | MP4B         | Mx        | .000923            | 1.13           |
| 64 | MP4B         | X         | -2.183             | 3.13           |
| 65 | MP4B         | Z         | -3.782             | 3.13           |
| 66 | MP4B         | Mx        | .000923            | 3.13           |
| 67 | MP4C         | X         | -.959              | 1.13           |
| 68 | MP4C         | Z         | -1.661             | 1.13           |
| 69 | MP4C         | Mx        | -.000959           | 1.13           |
| 70 | MP4C         | X         | -.959              | 3.13           |
| 71 | MP4C         | Z         | -1.661             | 3.13           |
| 72 | MP4C         | Mx        | -.000959           | 3.13           |
| 73 | MP1A         | X         | -1.788             | 2              |
| 74 | MP1A         | Z         | -3.096             | 2              |
| 75 | MP1A         | Mx        | -.000596           | 2              |
| 76 | MP1B         | X         | -1.788             | 2              |
| 77 | MP1B         | Z         | -3.096             | 2              |
| 78 | MP1B         | Mx        | -.000596           | 2              |
| 79 | MP1C         | X         | -1.303             | 2              |
| 80 | MP1C         | Z         | -2.257             | 2              |
| 81 | MP1C         | Mx        | .000869            | 2              |
| 82 | MP2A         | X         | -1.758             | 2              |
| 83 | MP2A         | Z         | -3.046             | 2              |
| 84 | MP2A         | Mx        | -.000586           | 2              |
| 85 | MP2B         | X         | -1.758             | 2              |
| 86 | MP2B         | Z         | -3.046             | 2              |
| 87 | MP2B         | Mx        | -.000586           | 2              |
| 88 | MP2C         | X         | -1.186             | 2              |
| 89 | MP2C         | Z         | -2.054             | 2              |
| 90 | MP2C         | Mx        | .000791            | 2              |
| 91 | MP2A         | X         | -.356              | 5              |
| 92 | MP2A         | Z         | -.617              | 5              |
| 93 | MP2A         | Mx        | -.000119           | 5              |
| 94 | MP2B         | X         | -.356              | 5              |
| 95 | MP2B         | Z         | -.617              | 5              |
| 96 | MP2B         | Mx        | -.000119           | 5              |
| 97 | MP2C         | X         | -.267              | 5              |

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

|     | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|-----|--------------|-----------|--------------------|----------------|
| 98  | MP2C         | Z         | -462               | 5              |
| 99  | MP2C         | Mx        | .000178            | 5              |
| 100 | OVP          | X         | -3.48              | .75            |
| 101 | OVP          | Z         | -6.027             | .75            |
| 102 | OVP          | Mx        | 0                  | .75            |

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

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

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M83          | Y         | -500               | 0              |

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

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

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M27          | Y         | -250               | %100           |

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

|    | Member Label | Direction | Start Magnitude[lb/ft....] | End Magnitude[lb/ft,F...] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 1  | M4           | Y         | -7.559                     | -7.559                    | 0                    | %100               |
| 2  | M5           | Y         | -7.559                     | -7.559                    | 0                    | %100               |
| 3  | M11          | Y         | -7.559                     | -7.559                    | 0                    | %100               |
| 4  | M17          | Y         | -7.559                     | -7.559                    | 0                    | %100               |
| 5  | M18          | Y         | -10.069                    | -10.069                   | 0                    | %100               |
| 6  | M19          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 7  | M20          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 8  | M21          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 9  | M22          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 10 | M23          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 11 | M24          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 12 | M25          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 13 | M26          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 14 | M27          | Y         | -6.518                     | -6.518                    | 0                    | %100               |
| 15 | M28          | Y         | -5.698                     | -5.698                    | 0                    | %100               |
| 16 | M29          | Y         | -5.698                     | -5.698                    | 0                    | %100               |
| 17 | M30          | Y         | -5.698                     | -5.698                    | 0                    | %100               |
| 18 | M31          | Y         | -5.698                     | -5.698                    | 0                    | %100               |
| 19 | M32          | Y         | -5.698                     | -5.698                    | 0                    | %100               |
| 20 | M33          | Y         | -5.698                     | -5.698                    | 0                    | %100               |
| 21 | M38          | Y         | -6.568                     | -6.568                    | 0                    | %100               |
| 22 | M39          | Y         | -6.568                     | -6.568                    | 0                    | %100               |
| 23 | M44          | Y         | -6.568                     | -6.568                    | 0                    | %100               |
| 24 | M45          | Y         | -6.568                     | -6.568                    | 0                    | %100               |
| 25 | M50          | Y         | -6.568                     | -6.568                    | 0                    | %100               |
| 26 | M51          | Y         | -6.568                     | -6.568                    | 0                    | %100               |
| 27 | MP5A         | Y         | -4.94                      | -4.94                     | 0                    | %100               |
| 28 | MP4A         | Y         | -4.94                      | -4.94                     | 0                    | %100               |
| 29 | MP2A         | Y         | -4.94                      | -4.94                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 30 | MP1A         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 31 | M122A        | Y         | -10.069                   | -10.069                  | 0                     | %100                |
| 32 | M123A        | Y         | -10.069                   | -10.069                  | 0                     | %100                |
| 33 | M128         | Y         | -6.568                    | -6.568                   | 0                     | %100                |
| 34 | M129         | Y         | -6.568                    | -6.568                   | 0                     | %100                |
| 35 | M138         | Y         | -6.568                    | -6.568                   | 0                     | %100                |
| 36 | M141         | Y         | -6.568                    | -6.568                   | 0                     | %100                |
| 37 | M150         | Y         | -6.568                    | -6.568                   | 0                     | %100                |
| 38 | M153         | Y         | -6.568                    | -6.568                   | 0                     | %100                |
| 39 | M98A         | Y         | -7.559                    | -7.559                   | 0                     | %100                |
| 40 | M99          | Y         | -7.559                    | -7.559                   | 0                     | %100                |
| 41 | MP4C         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 42 | MP3C         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 43 | MP2C         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 44 | MP1C         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 45 | MP4B         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 46 | MP3B         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 47 | MP2B         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 48 | MP1B         | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 49 | OVP          | Y         | -4.94                     | -4.94                    | 0                     | %100                |
| 50 | M100         | Y         | -5.641                    | -5.641                   | 0                     | %100                |
| 51 | M107         | Y         | -5.641                    | -5.641                   | 0                     | %100                |
| 52 | M114         | Y         | -5.641                    | -5.641                   | 0                     | %100                |
| 53 | M117         | Y         | -7.559                    | -7.559                   | 0                     | %100                |
| 54 | M118         | Y         | -7.559                    | -7.559                   | 0                     | %100                |
| 55 | M119         | Y         | -7.559                    | -7.559                   | 0                     | %100                |
| 56 | M121         | Y         | -10.55                    | -10.55                   | 0                     | %100                |
| 57 | M123         | Y         | -10.55                    | -10.55                   | 0                     | %100                |
| 58 | M125A        | Y         | -10.55                    | -10.55                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 0                         | 0                        | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | 0                         | 0                        | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | -7.933                    | -7.933                   | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | -7.933                    | -7.933                   | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | -5.429                    | -5.429                   | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | -2.639                    | -2.639                   | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | -2.639                    | -2.639                   | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | -10.557                   | -10.557                  | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | -2.586                    | -2.586                   | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | -2.586                    | -2.586                   | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | -10.344                   | -10.344                  | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | -2.639                    | -2.639                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | -2.639                    | -2.639                   | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | -10.557                   | -10.557                  | 0                     | %100                |
| 29 | M28          | X         | 0                         | 0                        | 0                     | %100                |
| 30 | M28          | Z         | -9e-6                     | -9e-6                    | 0                     | %100                |
| 31 | M29          | X         | 0                         | 0                        | 0                     | %100                |
| 32 | M29          | Z         | -5.572                    | -5.572                   | 0                     | %100                |
| 33 | M30          | X         | 0                         | 0                        | 0                     | %100                |
| 34 | M30          | Z         | -5.587                    | -5.587                   | 0                     | %100                |
| 35 | M31          | X         | 0                         | 0                        | 0                     | %100                |
| 36 | M31          | Z         | -5.572                    | -5.572                   | 0                     | %100                |
| 37 | M32          | X         | 0                         | 0                        | 0                     | %100                |
| 38 | M32          | Z         | -9e-6                     | -9e-6                    | 0                     | %100                |
| 39 | M33          | X         | 0                         | 0                        | 0                     | %100                |
| 40 | M33          | Z         | -5.587                    | -5.587                   | 0                     | %100                |
| 41 | M38          | X         | 0                         | 0                        | 0                     | %100                |
| 42 | M38          | Z         | 0                         | 0                        | 0                     | %100                |
| 43 | M39          | X         | 0                         | 0                        | 0                     | %100                |
| 44 | M39          | Z         | 0                         | 0                        | 0                     | %100                |
| 45 | M44          | X         | 0                         | 0                        | 0                     | %100                |
| 46 | M44          | Z         | -9.086                    | -9.086                   | 0                     | %100                |
| 47 | M45          | X         | 0                         | 0                        | 0                     | %100                |
| 48 | M45          | Z         | -9.086                    | -9.086                   | 0                     | %100                |
| 49 | M50          | X         | 0                         | 0                        | 0                     | %100                |
| 50 | M50          | Z         | -9.086                    | -9.086                   | 0                     | %100                |
| 51 | M51          | X         | 0                         | 0                        | 0                     | %100                |
| 52 | M51          | Z         | -9.086                    | -9.086                   | 0                     | %100                |
| 53 | MP5A         | X         | 0                         | 0                        | 0                     | %100                |
| 54 | MP5A         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 55 | MP4A         | X         | 0                         | 0                        | 0                     | %100                |
| 56 | MP4A         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 57 | MP2A         | X         | 0                         | 0                        | 0                     | %100                |
| 58 | MP2A         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 59 | MP1A         | X         | 0                         | 0                        | 0                     | %100                |
| 60 | MP1A         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 61 | M122A        | X         | 0                         | 0                        | 0                     | %100                |
| 62 | M122A        | Z         | -21.717                   | -21.717                  | 0                     | %100                |
| 63 | M123A        | X         | 0                         | 0                        | 0                     | %100                |
| 64 | M123A        | Z         | -5.429                    | -5.429                   | 0                     | %100                |
| 65 | M128         | X         | 0                         | 0                        | 0                     | %100                |
| 66 | M128         | Z         | -1.3e-5                   | -1.3e-5                  | 0                     | %100                |
| 67 | M129         | X         | 0                         | 0                        | 0                     | %100                |
| 68 | M129         | Z         | -1.3e-5                   | -1.3e-5                  | 0                     | %100                |
| 69 | M138         | X         | 0                         | 0                        | 0                     | %100                |
| 70 | M138         | Z         | -7.556                    | -7.556                   | 0                     | %100                |
| 71 | M141         | X         | 0                         | 0                        | 0                     | %100                |
| 72 | M141         | Z         | -7.576                    | -7.576                   | 0                     | %100                |
| 73 | M150         | X         | 0                         | 0                        | 0                     | %100                |
| 74 | M150         | Z         | -7.576                    | -7.576                   | 0                     | %100                |
| 75 | M153         | X         | 0                         | 0                        | 0                     | %100                |
| 76 | M153         | Z         | -7.556                    | -7.556                   | 0                     | %100                |
| 77 | M98A         | X         | 0                         | 0                        | 0                     | %100                |
| 78 | M98A         | Z         | -7.246                    | -7.246                   | 0                     | %100                |
| 79 | M99          | X         | 0                         | 0                        | 0                     | %100                |
| 80 | M99          | Z         | -7.246                    | -7.246                   | 0                     | %100                |
| 81 | MP4C         | X         | 0                         | 0                        | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 82  | MP4C         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 83  | MP3C         | X         | 0                         | 0                        | 0                     | %100                |
| 84  | MP3C         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 85  | MP2C         | X         | 0                         | 0                        | 0                     | %100                |
| 86  | MP2C         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 87  | MP1C         | X         | 0                         | 0                        | 0                     | %100                |
| 88  | MP1C         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 89  | MP4B         | X         | 0                         | 0                        | 0                     | %100                |
| 90  | MP4B         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 91  | MP3B         | X         | 0                         | 0                        | 0                     | %100                |
| 92  | MP3B         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 93  | MP2B         | X         | 0                         | 0                        | 0                     | %100                |
| 94  | MP2B         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 95  | MP1B         | X         | 0                         | 0                        | 0                     | %100                |
| 96  | MP1B         | Z         | -8.596                    | -8.596                   | 0                     | %100                |
| 97  | OVP          | X         | 0                         | 0                        | 0                     | %100                |
| 98  | OVP          | Z         | -7.03                     | -7.03                    | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | -10.406                   | -10.406                  | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | -2.602                    | -2.602                   | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | -2.602                    | -2.602                   | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | -3.223                    | -3.223                   | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | -12.891                   | -12.891                  | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | -3.223                    | -3.223                   | 0                     | %100                |
| 111 | M121         | X         | 0                         | 0                        | 0                     | %100                |
| 112 | M121         | Z         | -6.492                    | -6.492                   | 0                     | %100                |
| 113 | M123         | X         | 0                         | 0                        | 0                     | %100                |
| 114 | M123         | Z         | -13.258                   | -13.258                  | 0                     | %100                |
| 115 | M125A        | X         | 0                         | 0                        | 0                     | %100                |
| 116 | M125A        | Z         | -13.258                   | -13.258                  | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 1.208                     | 1.208                    | 0                     | %100                |
| 2  | M4           | Z         | -2.092                    | -2.092                   | 0                     | %100                |
| 3  | M5           | X         | 1.322                     | 1.322                    | 0                     | %100                |
| 4  | M5           | Z         | -2.29                     | -2.29                    | 0                     | %100                |
| 5  | M11          | X         | 1.322                     | 1.322                    | 0                     | %100                |
| 6  | M11          | Z         | -2.29                     | -2.29                    | 0                     | %100                |
| 7  | M17          | X         | 5.289                     | 5.289                    | 0                     | %100                |
| 8  | M17          | Z         | -9.16                     | -9.16                    | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 12 | M19          | Z         | -6.857                    | -6.857                   | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 16 | M21          | Z         | -6.857                    | -6.857                   | 0                     | %100                |
| 17 | M22          | X         | 3.879                     | 3.879                    | 0                     | %100                |
| 18 | M22          | Z         | -6.719                    | -6.719                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | 3.879                     | 3.879                    | 0                     | %100                |
| 22 | M24          | Z         | -6.719                    | -6.719                   | 0                     | %100                |
| 23 | M25          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 24 | M25          | Z         | -6.857                    | -6.857                   | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 28 | M27          | Z         | -6.857                    | -6.857                   | 0                     | %100                |
| 29 | M28          | X         | .934                      | .934                     | 0                     | %100                |
| 30 | M28          | Z         | -1.617                    | -1.617                   | 0                     | %100                |
| 31 | M29          | X         | .926                      | .926                     | 0                     | %100                |
| 32 | M29          | Z         | -1.604                    | -1.604                   | 0                     | %100                |
| 33 | M30          | X         | 3.72                      | 3.72                     | 0                     | %100                |
| 34 | M30          | Z         | -6.443                    | -6.443                   | 0                     | %100                |
| 35 | M31          | X         | 3.72                      | 3.72                     | 0                     | %100                |
| 36 | M31          | Z         | -6.443                    | -6.443                   | 0                     | %100                |
| 37 | M32          | X         | .926                      | .926                     | 0                     | %100                |
| 38 | M32          | Z         | -1.604                    | -1.604                   | 0                     | %100                |
| 39 | M33          | X         | .934                      | .934                     | 0                     | %100                |
| 40 | M33          | Z         | -1.617                    | -1.617                   | 0                     | %100                |
| 41 | M38          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 42 | M38          | Z         | -2.623                    | -2.623                   | 0                     | %100                |
| 43 | M39          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 44 | M39          | Z         | -2.623                    | -2.623                   | 0                     | %100                |
| 45 | M44          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 46 | M44          | Z         | -2.623                    | -2.623                   | 0                     | %100                |
| 47 | M45          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 48 | M45          | Z         | -2.623                    | -2.623                   | 0                     | %100                |
| 49 | M50          | X         | 6.058                     | 6.058                    | 0                     | %100                |
| 50 | M50          | Z         | -10.492                   | -10.492                  | 0                     | %100                |
| 51 | M51          | X         | 6.058                     | 6.058                    | 0                     | %100                |
| 52 | M51          | Z         | -10.492                   | -10.492                  | 0                     | %100                |
| 53 | MP5A         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 54 | MP5A         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 55 | MP4A         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 56 | MP4A         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 57 | MP2A         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 58 | MP2A         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 59 | MP1A         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 60 | MP1A         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 61 | M122A        | X         | 8.144                     | 8.144                    | 0                     | %100                |
| 62 | M122A        | Z         | -14.106                   | -14.106                  | 0                     | %100                |
| 63 | M123A        | X         | 8.144                     | 8.144                    | 0                     | %100                |
| 64 | M123A        | Z         | -14.106                   | -14.106                  | 0                     | %100                |
| 65 | M128         | X         | 1.266                     | 1.266                    | 0                     | %100                |
| 66 | M128         | Z         | -2.193                    | -2.193                   | 0                     | %100                |
| 67 | M129         | X         | 1.256                     | 1.256                    | 0                     | %100                |
| 68 | M129         | Z         | -2.176                    | -2.176                   | 0                     | %100                |
| 69 | M138         | X         | 1.256                     | 1.256                    | 0                     | %100                |
| 70 | M138         | Z         | -2.176                    | -2.176                   | 0                     | %100                |
| 71 | M141         | X         | 1.266                     | 1.266                    | 0                     | %100                |
| 72 | M141         | Z         | -2.193                    | -2.193                   | 0                     | %100                |
| 73 | M150         | X         | 5.044                     | 5.044                    | 0                     | %100                |
| 74 | M150         | Z         | -8.736                    | -8.736                   | 0                     | %100                |
| 75 | M153         | X         | 5.044                     | 5.044                    | 0                     | %100                |



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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 76  | M153         | Z         | -8.736                    | -8.736                   | 0                     | %100                |
| 77  | M98A         | X         | 1.208                     | 1.208                    | 0                     | %100                |
| 78  | M98A         | Z         | -2.092                    | -2.092                   | 0                     | %100                |
| 79  | M99          | X         | 4.831                     | 4.831                    | 0                     | %100                |
| 80  | M99          | Z         | -8.367                    | -8.367                   | 0                     | %100                |
| 81  | MP4C         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 82  | MP4C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 83  | MP3C         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 84  | MP3C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 85  | MP2C         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 86  | MP2C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 87  | MP1C         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 88  | MP1C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 89  | MP4B         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 90  | MP4B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 91  | MP3B         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 92  | MP3B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 93  | MP2B         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 94  | MP2B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 95  | MP1B         | X         | 4.298                     | 4.298                    | 0                     | %100                |
| 96  | MP1B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 97  | OVP          | X         | 3.515                     | 3.515                    | 0                     | %100                |
| 98  | OVP          | Z         | -6.088                    | -6.088                   | 0                     | %100                |
| 99  | M100         | X         | 3.902                     | 3.902                    | 0                     | %100                |
| 100 | M100         | Z         | -6.759                    | -6.759                   | 0                     | %100                |
| 101 | M107         | X         | 3.902                     | 3.902                    | 0                     | %100                |
| 102 | M107         | Z         | -6.759                    | -6.759                   | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | 4.834                     | 4.834                    | 0                     | %100                |
| 106 | M117         | Z         | -8.373                    | -8.373                   | 0                     | %100                |
| 107 | M118         | X         | 4.834                     | 4.834                    | 0                     | %100                |
| 108 | M118         | Z         | -8.373                    | -8.373                   | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | 4.374                     | 4.374                    | 0                     | %100                |
| 112 | M121         | Z         | -7.575                    | -7.575                   | 0                     | %100                |
| 113 | M123         | X         | 4.374                     | 4.374                    | 0                     | %100                |
| 114 | M123         | Z         | -7.575                    | -7.575                   | 0                     | %100                |
| 115 | M125A        | X         | 7.757                     | 7.757                    | 0                     | %100                |
| 116 | M125A        | Z         | -13.435                   | -13.435                  | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 6.275                     | 6.275                    | 0                     | %100                |
| 2  | M4           | Z         | -3.623                    | -3.623                   | 0                     | %100                |
| 3  | M5           | X         | 6.87                      | 6.87                     | 0                     | %100                |
| 4  | M5           | Z         | -3.967                    | -3.967                   | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | 6.87                      | 6.87                     | 0                     | %100                |
| 8  | M17          | Z         | -3.967                    | -3.967                   | 0                     | %100                |
| 9  | M18          | X         | 4.702                     | 4.702                    | 0                     | %100                |
| 10 | M18          | Z         | -2.715                    | -2.715                   | 0                     | %100                |
| 11 | M19          | X         | 9.143                     | 9.143                    | 0                     | %100                |
| 12 | M19          | Z         | -5.278                    | -5.278                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 13 | M20          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 14 | M20          | Z         | -1.32                     | -1.32                    | 0                     | %100                |
| 15 | M21          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 16 | M21          | Z         | -1.32                     | -1.32                    | 0                     | %100                |
| 17 | M22          | X         | 8.958                     | 8.958                    | 0                     | %100                |
| 18 | M22          | Z         | -5.172                    | -5.172                   | 0                     | %100                |
| 19 | M23          | X         | 2.24                      | 2.24                     | 0                     | %100                |
| 20 | M23          | Z         | -1.293                    | -1.293                   | 0                     | %100                |
| 21 | M24          | X         | 2.24                      | 2.24                     | 0                     | %100                |
| 22 | M24          | Z         | -1.293                    | -1.293                   | 0                     | %100                |
| 23 | M25          | X         | 9.143                     | 9.143                    | 0                     | %100                |
| 24 | M25          | Z         | -5.278                    | -5.278                   | 0                     | %100                |
| 25 | M26          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 26 | M26          | Z         | -1.32                     | -1.32                    | 0                     | %100                |
| 27 | M27          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 28 | M27          | Z         | -1.32                     | -1.32                    | 0                     | %100                |
| 29 | M28          | X         | 4.838                     | 4.838                    | 0                     | %100                |
| 30 | M28          | Z         | -2.793                    | -2.793                   | 0                     | %100                |
| 31 | M29          | X         | 8e-6                      | 8e-6                     | 0                     | %100                |
| 32 | M29          | Z         | -5e-6                     | -5e-6                    | 0                     | %100                |
| 33 | M30          | X         | 4.826                     | 4.826                    | 0                     | %100                |
| 34 | M30          | Z         | -2.786                    | -2.786                   | 0                     | %100                |
| 35 | M31          | X         | 4.838                     | 4.838                    | 0                     | %100                |
| 36 | M31          | Z         | -2.793                    | -2.793                   | 0                     | %100                |
| 37 | M32          | X         | 4.826                     | 4.826                    | 0                     | %100                |
| 38 | M32          | Z         | -2.786                    | -2.786                   | 0                     | %100                |
| 39 | M33          | X         | 8e-6                      | 8e-6                     | 0                     | %100                |
| 40 | M33          | Z         | -5e-6                     | -5e-6                    | 0                     | %100                |
| 41 | M38          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 42 | M38          | Z         | -4.543                    | -4.543                   | 0                     | %100                |
| 43 | M39          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 44 | M39          | Z         | -4.543                    | -4.543                   | 0                     | %100                |
| 45 | M44          | X         | 0                         | 0                        | 0                     | %100                |
| 46 | M44          | Z         | 0                         | 0                        | 0                     | %100                |
| 47 | M45          | X         | 0                         | 0                        | 0                     | %100                |
| 48 | M45          | Z         | 0                         | 0                        | 0                     | %100                |
| 49 | M50          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 50 | M50          | Z         | -4.543                    | -4.543                   | 0                     | %100                |
| 51 | M51          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 52 | M51          | Z         | -4.543                    | -4.543                   | 0                     | %100                |
| 53 | MP5A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 54 | MP5A         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 55 | MP4A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 56 | MP4A         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 57 | MP2A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 58 | MP2A         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 59 | MP1A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 60 | MP1A         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 61 | M122A        | X         | 4.702                     | 4.702                    | 0                     | %100                |
| 62 | M122A        | Z         | -2.715                    | -2.715                   | 0                     | %100                |
| 63 | M123A        | X         | 18.807                    | 18.807                   | 0                     | %100                |
| 64 | M123A        | Z         | -10.859                   | -10.859                  | 0                     | %100                |
| 65 | M128         | X         | 6.561                     | 6.561                    | 0                     | %100                |
| 66 | M128         | Z         | -3.788                    | -3.788                   | 0                     | %100                |
| 67 | M129         | X         | 6.544                     | 6.544                    | 0                     | %100                |
| 68 | M129         | Z         | -3.778                    | -3.778                   | 0                     | %100                |
| 69 | M138         | X         | 1.1e-5                    | 1.1e-5                   | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 70  | M138         | Z         | -6e-6                     | -6e-6                    | 0                     | %100                |
| 71  | M141         | X         | 1.1e-5                    | 1.1e-5                   | 0                     | %100                |
| 72  | M141         | Z         | -6e-6                     | -6e-6                    | 0                     | %100                |
| 73  | M150         | X         | 6.544                     | 6.544                    | 0                     | %100                |
| 74  | M150         | Z         | -3.778                    | -3.778                   | 0                     | %100                |
| 75  | M153         | X         | 6.561                     | 6.561                    | 0                     | %100                |
| 76  | M153         | Z         | -3.788                    | -3.788                   | 0                     | %100                |
| 77  | M98A         | X         | 0                         | 0                        | 0                     | %100                |
| 78  | M98A         | Z         | 0                         | 0                        | 0                     | %100                |
| 79  | M99          | X         | 6.275                     | 6.275                    | 0                     | %100                |
| 80  | M99          | Z         | -3.623                    | -3.623                   | 0                     | %100                |
| 81  | MP4C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 82  | MP4C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 83  | MP3C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 84  | MP3C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 85  | MP2C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 86  | MP2C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 87  | MP1C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 88  | MP1C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 89  | MP4B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 90  | MP4B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 91  | MP3B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 92  | MP3B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 93  | MP2B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 94  | MP2B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 95  | MP1B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 96  | MP1B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 97  | OVP          | X         | 6.088                     | 6.088                    | 0                     | %100                |
| 98  | OVP          | Z         | -3.515                    | -3.515                   | 0                     | %100                |
| 99  | M100         | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 100 | M100         | Z         | -1.301                    | -1.301                   | 0                     | %100                |
| 101 | M107         | X         | 9.012                     | 9.012                    | 0                     | %100                |
| 102 | M107         | Z         | -5.203                    | -5.203                   | 0                     | %100                |
| 103 | M114         | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 104 | M114         | Z         | -1.301                    | -1.301                   | 0                     | %100                |
| 105 | M117         | X         | 11.164                    | 11.164                   | 0                     | %100                |
| 106 | M117         | Z         | -6.446                    | -6.446                   | 0                     | %100                |
| 107 | M118         | X         | 2.791                     | 2.791                    | 0                     | %100                |
| 108 | M118         | Z         | -1.611                    | -1.611                   | 0                     | %100                |
| 109 | M119         | X         | 2.791                     | 2.791                    | 0                     | %100                |
| 110 | M119         | Z         | -1.611                    | -1.611                   | 0                     | %100                |
| 111 | M121         | X         | 11.482                    | 11.482                   | 0                     | %100                |
| 112 | M121         | Z         | -6.629                    | -6.629                   | 0                     | %100                |
| 113 | M123         | X         | 5.622                     | 5.622                    | 0                     | %100                |
| 114 | M123         | Z         | -3.246                    | -3.246                   | 0                     | %100                |
| 115 | M125A        | X         | 11.482                    | 11.482                   | 0                     | %100                |
| 116 | M125A        | Z         | -6.629                    | -6.629                   | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | 9.661                     | 9.661                    | 0                     | %100                |
| 2 | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3 | M5           | X         | 10.578                    | 10.578                   | 0                     | %100                |
| 4 | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5 | M11          | X         | 2.644                     | 2.644                    | 0                     | %100                |
| 6 | M11          | Z         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 7  | M17          | X         | 2.644                     | 2.644                    | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | 16.288                    | 16.288                   | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | 7.918                     | 7.918                    | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | 7.918                     | 7.918                    | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | 0                         | 0                        | 0                     | %100                |
| 17 | M22          | X         | 7.758                     | 7.758                    | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | 7.758                     | 7.758                    | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | 0                         | 0                        | 0                     | %100                |
| 23 | M25          | X         | 7.918                     | 7.918                    | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | 7.918                     | 7.918                    | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | 0                         | 0                        | 0                     | %100                |
| 29 | M28          | X         | 7.439                     | 7.439                    | 0                     | %100                |
| 30 | M28          | Z         | 0                         | 0                        | 0                     | %100                |
| 31 | M29          | X         | 1.867                     | 1.867                    | 0                     | %100                |
| 32 | M29          | Z         | 0                         | 0                        | 0                     | %100                |
| 33 | M30          | X         | 1.853                     | 1.853                    | 0                     | %100                |
| 34 | M30          | Z         | 0                         | 0                        | 0                     | %100                |
| 35 | M31          | X         | 1.867                     | 1.867                    | 0                     | %100                |
| 36 | M31          | Z         | 0                         | 0                        | 0                     | %100                |
| 37 | M32          | X         | 7.439                     | 7.439                    | 0                     | %100                |
| 38 | M32          | Z         | 0                         | 0                        | 0                     | %100                |
| 39 | M33          | X         | 1.853                     | 1.853                    | 0                     | %100                |
| 40 | M33          | Z         | 0                         | 0                        | 0                     | %100                |
| 41 | M38          | X         | 12.115                    | 12.115                   | 0                     | %100                |
| 42 | M38          | Z         | 0                         | 0                        | 0                     | %100                |
| 43 | M39          | X         | 12.115                    | 12.115                   | 0                     | %100                |
| 44 | M39          | Z         | 0                         | 0                        | 0                     | %100                |
| 45 | M44          | X         | 3.029                     | 3.029                    | 0                     | %100                |
| 46 | M44          | Z         | 0                         | 0                        | 0                     | %100                |
| 47 | M45          | X         | 3.029                     | 3.029                    | 0                     | %100                |
| 48 | M45          | Z         | 0                         | 0                        | 0                     | %100                |
| 49 | M50          | X         | 3.029                     | 3.029                    | 0                     | %100                |
| 50 | M50          | Z         | 0                         | 0                        | 0                     | %100                |
| 51 | M51          | X         | 3.029                     | 3.029                    | 0                     | %100                |
| 52 | M51          | Z         | 0                         | 0                        | 0                     | %100                |
| 53 | MP5A         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 54 | MP5A         | Z         | 0                         | 0                        | 0                     | %100                |
| 55 | MP4A         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 56 | MP4A         | Z         | 0                         | 0                        | 0                     | %100                |
| 57 | MP2A         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 58 | MP2A         | Z         | 0                         | 0                        | 0                     | %100                |
| 59 | MP1A         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 60 | MP1A         | Z         | 0                         | 0                        | 0                     | %100                |
| 61 | M122A        | X         | 0                         | 0                        | 0                     | %100                |
| 62 | M122A        | Z         | 0                         | 0                        | 0                     | %100                |
| 63 | M123A        | X         | 16.288                    | 16.288                   | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 64  | M123A        | Z         | 0                         | 0                        | 0                     | %100                |
| 65  | M128         | X         | 10.088                    | 10.088                   | 0                     | %100                |
| 66  | M128         | Z         | 0                         | 0                        | 0                     | %100                |
| 67  | M129         | X         | 10.088                    | 10.088                   | 0                     | %100                |
| 68  | M129         | Z         | 0                         | 0                        | 0                     | %100                |
| 69  | M138         | X         | 2.532                     | 2.532                    | 0                     | %100                |
| 70  | M138         | Z         | 0                         | 0                        | 0                     | %100                |
| 71  | M141         | X         | 2.512                     | 2.512                    | 0                     | %100                |
| 72  | M141         | Z         | 0                         | 0                        | 0                     | %100                |
| 73  | M150         | X         | 2.512                     | 2.512                    | 0                     | %100                |
| 74  | M150         | Z         | 0                         | 0                        | 0                     | %100                |
| 75  | M153         | X         | 2.532                     | 2.532                    | 0                     | %100                |
| 76  | M153         | Z         | 0                         | 0                        | 0                     | %100                |
| 77  | M98A         | X         | 2.415                     | 2.415                    | 0                     | %100                |
| 78  | M98A         | Z         | 0                         | 0                        | 0                     | %100                |
| 79  | M99          | X         | 2.415                     | 2.415                    | 0                     | %100                |
| 80  | M99          | Z         | 0                         | 0                        | 0                     | %100                |
| 81  | MP4C         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 82  | MP4C         | Z         | 0                         | 0                        | 0                     | %100                |
| 83  | MP3C         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 84  | MP3C         | Z         | 0                         | 0                        | 0                     | %100                |
| 85  | MP2C         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 86  | MP2C         | Z         | 0                         | 0                        | 0                     | %100                |
| 87  | MP1C         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 88  | MP1C         | Z         | 0                         | 0                        | 0                     | %100                |
| 89  | MP4B         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 90  | MP4B         | Z         | 0                         | 0                        | 0                     | %100                |
| 91  | MP3B         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 92  | MP3B         | Z         | 0                         | 0                        | 0                     | %100                |
| 93  | MP2B         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 94  | MP2B         | Z         | 0                         | 0                        | 0                     | %100                |
| 95  | MP1B         | X         | 8.596                     | 8.596                    | 0                     | %100                |
| 96  | MP1B         | Z         | 0                         | 0                        | 0                     | %100                |
| 97  | OVP          | X         | 7.03                      | 7.03                     | 0                     | %100                |
| 98  | OVP          | Z         | 0                         | 0                        | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | 0                         | 0                        | 0                     | %100                |
| 101 | M107         | X         | 7.805                     | 7.805                    | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | 7.805                     | 7.805                    | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | 9.668                     | 9.668                    | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 0                         | 0                        | 0                     | %100                |
| 109 | M119         | X         | 9.668                     | 9.668                    | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | 15.513                    | 15.513                   | 0                     | %100                |
| 112 | M121         | Z         | 0                         | 0                        | 0                     | %100                |
| 113 | M123         | X         | 8.747                     | 8.747                    | 0                     | %100                |
| 114 | M123         | Z         | 0                         | 0                        | 0                     | %100                |
| 115 | M125A        | X         | 8.747                     | 8.747                    | 0                     | %100                |
| 116 | M125A        | Z         | 0                         | 0                        | 0                     | %100                |

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

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 6.275                     | 6.275                    | 0                     | %100                |
| 2  | M4           | Z         | 3.623                     | 3.623                    | 0                     | %100                |
| 3  | M5           | X         | 6.87                      | 6.87                     | 0                     | %100                |
| 4  | M5           | Z         | 3.967                     | 3.967                    | 0                     | %100                |
| 5  | M11          | X         | 6.87                      | 6.87                     | 0                     | %100                |
| 6  | M11          | Z         | 3.967                     | 3.967                    | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | 18.807                    | 18.807                   | 0                     | %100                |
| 10 | M18          | Z         | 10.859                    | 10.859                   | 0                     | %100                |
| 11 | M19          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 12 | M19          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 13 | M20          | X         | 9.143                     | 9.143                    | 0                     | %100                |
| 14 | M20          | Z         | 5.278                     | 5.278                    | 0                     | %100                |
| 15 | M21          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 16 | M21          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 17 | M22          | X         | 2.24                      | 2.24                     | 0                     | %100                |
| 18 | M22          | Z         | 1.293                     | 1.293                    | 0                     | %100                |
| 19 | M23          | X         | 8.958                     | 8.958                    | 0                     | %100                |
| 20 | M23          | Z         | 5.172                     | 5.172                    | 0                     | %100                |
| 21 | M24          | X         | 2.24                      | 2.24                     | 0                     | %100                |
| 22 | M24          | Z         | 1.293                     | 1.293                    | 0                     | %100                |
| 23 | M25          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 24 | M25          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 25 | M26          | X         | 9.143                     | 9.143                    | 0                     | %100                |
| 26 | M26          | Z         | 5.278                     | 5.278                    | 0                     | %100                |
| 27 | M27          | X         | 2.286                     | 2.286                    | 0                     | %100                |
| 28 | M27          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 29 | M28          | X         | 4.826                     | 4.826                    | 0                     | %100                |
| 30 | M28          | Z         | 2.786                     | 2.786                    | 0                     | %100                |
| 31 | M29          | X         | 4.838                     | 4.838                    | 0                     | %100                |
| 32 | M29          | Z         | 2.793                     | 2.793                    | 0                     | %100                |
| 33 | M30          | X         | 8e-6                      | 8e-6                     | 0                     | %100                |
| 34 | M30          | Z         | 5e-6                      | 5e-6                     | 0                     | %100                |
| 35 | M31          | X         | 8e-6                      | 8e-6                     | 0                     | %100                |
| 36 | M31          | Z         | 5e-6                      | 5e-6                     | 0                     | %100                |
| 37 | M32          | X         | 4.838                     | 4.838                    | 0                     | %100                |
| 38 | M32          | Z         | 2.793                     | 2.793                    | 0                     | %100                |
| 39 | M33          | X         | 4.826                     | 4.826                    | 0                     | %100                |
| 40 | M33          | Z         | 2.786                     | 2.786                    | 0                     | %100                |
| 41 | M38          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 42 | M38          | Z         | 4.543                     | 4.543                    | 0                     | %100                |
| 43 | M39          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 44 | M39          | Z         | 4.543                     | 4.543                    | 0                     | %100                |
| 45 | M44          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 46 | M44          | Z         | 4.543                     | 4.543                    | 0                     | %100                |
| 47 | M45          | X         | 7.869                     | 7.869                    | 0                     | %100                |
| 48 | M45          | Z         | 4.543                     | 4.543                    | 0                     | %100                |
| 49 | M50          | X         | 0                         | 0                        | 0                     | %100                |
| 50 | M50          | Z         | 0                         | 0                        | 0                     | %100                |
| 51 | M51          | X         | 0                         | 0                        | 0                     | %100                |
| 52 | M51          | Z         | 0                         | 0                        | 0                     | %100                |
| 53 | MP5A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 54 | MP5A         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 55 | MP4A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 56 | MP4A         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 57 | MP2A         | X         | 7.445                     | 7.445                    | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 58  | MP2A         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 59  | MP1A         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 60  | MP1A         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 61  | M122A        | X         | 4.702                     | 4.702                    | 0                     | %100                |
| 62  | M122A        | Z         | 2.715                     | 2.715                    | 0                     | %100                |
| 63  | M123A        | X         | 4.702                     | 4.702                    | 0                     | %100                |
| 64  | M123A        | Z         | 2.715                     | 2.715                    | 0                     | %100                |
| 65  | M128         | X         | 6.544                     | 6.544                    | 0                     | %100                |
| 66  | M128         | Z         | 3.778                     | 3.778                    | 0                     | %100                |
| 67  | M129         | X         | 6.561                     | 6.561                    | 0                     | %100                |
| 68  | M129         | Z         | 3.788                     | 3.788                    | 0                     | %100                |
| 69  | M138         | X         | 6.561                     | 6.561                    | 0                     | %100                |
| 70  | M138         | Z         | 3.788                     | 3.788                    | 0                     | %100                |
| 71  | M141         | X         | 6.544                     | 6.544                    | 0                     | %100                |
| 72  | M141         | Z         | 3.778                     | 3.778                    | 0                     | %100                |
| 73  | M150         | X         | 1.1e-5                    | 1.1e-5                   | 0                     | %100                |
| 74  | M150         | Z         | 6e-6                      | 6e-6                     | 0                     | %100                |
| 75  | M153         | X         | 1.1e-5                    | 1.1e-5                   | 0                     | %100                |
| 76  | M153         | Z         | 6e-6                      | 6e-6                     | 0                     | %100                |
| 77  | M98A         | X         | 6.275                     | 6.275                    | 0                     | %100                |
| 78  | M98A         | Z         | 3.623                     | 3.623                    | 0                     | %100                |
| 79  | M99          | X         | 0                         | 0                        | 0                     | %100                |
| 80  | M99          | Z         | 0                         | 0                        | 0                     | %100                |
| 81  | MP4C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 82  | MP4C         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 83  | MP3C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 84  | MP3C         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 85  | MP2C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 86  | MP2C         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 87  | MP1C         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 88  | MP1C         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 89  | MP4B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 90  | MP4B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 91  | MP3B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 92  | MP3B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 93  | MP2B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 94  | MP2B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 95  | MP1B         | X         | 7.445                     | 7.445                    | 0                     | %100                |
| 96  | MP1B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 97  | OVP          | X         | 6.088                     | 6.088                    | 0                     | %100                |
| 98  | OVP          | Z         | 3.515                     | 3.515                    | 0                     | %100                |
| 99  | M100         | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 100 | M100         | Z         | 1.301                     | 1.301                    | 0                     | %100                |
| 101 | M107         | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 102 | M107         | Z         | 1.301                     | 1.301                    | 0                     | %100                |
| 103 | M114         | X         | 9.012                     | 9.012                    | 0                     | %100                |
| 104 | M114         | Z         | 5.203                     | 5.203                    | 0                     | %100                |
| 105 | M117         | X         | 2.791                     | 2.791                    | 0                     | %100                |
| 106 | M117         | Z         | 1.611                     | 1.611                    | 0                     | %100                |
| 107 | M118         | X         | 2.791                     | 2.791                    | 0                     | %100                |
| 108 | M118         | Z         | 1.611                     | 1.611                    | 0                     | %100                |
| 109 | M119         | X         | 11.164                    | 11.164                   | 0                     | %100                |
| 110 | M119         | Z         | 6.446                     | 6.446                    | 0                     | %100                |
| 111 | M121         | X         | 11.482                    | 11.482                   | 0                     | %100                |
| 112 | M121         | Z         | 6.629                     | 6.629                    | 0                     | %100                |
| 113 | M123         | X         | 11.482                    | 11.482                   | 0                     | %100                |
| 114 | M123         | Z         | 6.629                     | 6.629                    | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 115 | M125A        | X         | 5.622                     | 5.622                    | 0                     | %100                |
| 116 | M125A        | Z         | 3.246                     | 3.246                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 1.208                     | 1.208                    | 0                     | %100                |
| 2  | M4           | Z         | 2.092                     | 2.092                    | 0                     | %100                |
| 3  | M5           | X         | 1.322                     | 1.322                    | 0                     | %100                |
| 4  | M5           | Z         | 2.29                      | 2.29                     | 0                     | %100                |
| 5  | M11          | X         | 5.289                     | 5.289                    | 0                     | %100                |
| 6  | M11          | Z         | 9.16                      | 9.16                     | 0                     | %100                |
| 7  | M17          | X         | 1.322                     | 1.322                    | 0                     | %100                |
| 8  | M17          | Z         | 2.29                      | 2.29                     | 0                     | %100                |
| 9  | M18          | X         | 8.144                     | 8.144                    | 0                     | %100                |
| 10 | M18          | Z         | 14.106                    | 14.106                   | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 14 | M20          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 15 | M21          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 16 | M21          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | 3.879                     | 3.879                    | 0                     | %100                |
| 20 | M23          | Z         | 6.719                     | 6.719                    | 0                     | %100                |
| 21 | M24          | X         | 3.879                     | 3.879                    | 0                     | %100                |
| 22 | M24          | Z         | 6.719                     | 6.719                    | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 26 | M26          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 27 | M27          | X         | 3.959                     | 3.959                    | 0                     | %100                |
| 28 | M27          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 29 | M28          | X         | .926                      | .926                     | 0                     | %100                |
| 30 | M28          | Z         | 1.604                     | 1.604                    | 0                     | %100                |
| 31 | M29          | X         | 3.72                      | 3.72                     | 0                     | %100                |
| 32 | M29          | Z         | 6.443                     | 6.443                    | 0                     | %100                |
| 33 | M30          | X         | .934                      | .934                     | 0                     | %100                |
| 34 | M30          | Z         | 1.617                     | 1.617                    | 0                     | %100                |
| 35 | M31          | X         | .926                      | .926                     | 0                     | %100                |
| 36 | M31          | Z         | 1.604                     | 1.604                    | 0                     | %100                |
| 37 | M32          | X         | .934                      | .934                     | 0                     | %100                |
| 38 | M32          | Z         | 1.617                     | 1.617                    | 0                     | %100                |
| 39 | M33          | X         | 3.72                      | 3.72                     | 0                     | %100                |
| 40 | M33          | Z         | 6.443                     | 6.443                    | 0                     | %100                |
| 41 | M38          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 42 | M38          | Z         | 2.623                     | 2.623                    | 0                     | %100                |
| 43 | M39          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 44 | M39          | Z         | 2.623                     | 2.623                    | 0                     | %100                |
| 45 | M44          | X         | 6.058                     | 6.058                    | 0                     | %100                |
| 46 | M44          | Z         | 10.492                    | 10.492                   | 0                     | %100                |
| 47 | M45          | X         | 6.058                     | 6.058                    | 0                     | %100                |
| 48 | M45          | Z         | 10.492                    | 10.492                   | 0                     | %100                |
| 49 | M50          | X         | 1.514                     | 1.514                    | 0                     | %100                |
| 50 | M50          | Z         | 2.623                     | 2.623                    | 0                     | %100                |
| 51 | M51          | X         | 1.514                     | 1.514                    | 0                     | %100                |



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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 52  | M51          | Z         | 2.623                     | 2.623                    | 0                    | %100               |
| 53  | MP5A         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 54  | MP5A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 55  | MP4A         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 56  | MP4A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 57  | MP2A         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 58  | MP2A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 59  | MP1A         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 60  | MP1A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 61  | M122A        | X         | 8.144                     | 8.144                    | 0                    | %100               |
| 62  | M122A        | Z         | 14.106                    | 14.106                   | 0                    | %100               |
| 63  | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64  | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65  | M128         | X         | 1.256                     | 1.256                    | 0                    | %100               |
| 66  | M128         | Z         | 2.176                     | 2.176                    | 0                    | %100               |
| 67  | M129         | X         | 1.266                     | 1.266                    | 0                    | %100               |
| 68  | M129         | Z         | 2.193                     | 2.193                    | 0                    | %100               |
| 69  | M138         | X         | 5.044                     | 5.044                    | 0                    | %100               |
| 70  | M138         | Z         | 8.736                     | 8.736                    | 0                    | %100               |
| 71  | M141         | X         | 5.044                     | 5.044                    | 0                    | %100               |
| 72  | M141         | Z         | 8.736                     | 8.736                    | 0                    | %100               |
| 73  | M150         | X         | 1.266                     | 1.266                    | 0                    | %100               |
| 74  | M150         | Z         | 2.193                     | 2.193                    | 0                    | %100               |
| 75  | M153         | X         | 1.256                     | 1.256                    | 0                    | %100               |
| 76  | M153         | Z         | 2.176                     | 2.176                    | 0                    | %100               |
| 77  | M98A         | X         | 4.831                     | 4.831                    | 0                    | %100               |
| 78  | M98A         | Z         | 8.367                     | 8.367                    | 0                    | %100               |
| 79  | M99          | X         | 1.208                     | 1.208                    | 0                    | %100               |
| 80  | M99          | Z         | 2.092                     | 2.092                    | 0                    | %100               |
| 81  | MP4C         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 82  | MP4C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 83  | MP3C         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 84  | MP3C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 85  | MP2C         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 86  | MP2C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 87  | MP1C         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 88  | MP1C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 89  | MP4B         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 90  | MP4B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 91  | MP3B         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 92  | MP3B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 93  | MP2B         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 94  | MP2B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 95  | MP1B         | X         | 4.298                     | 4.298                    | 0                    | %100               |
| 96  | MP1B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 97  | OVP          | X         | 3.515                     | 3.515                    | 0                    | %100               |
| 98  | OVP          | Z         | 6.088                     | 6.088                    | 0                    | %100               |
| 99  | M100         | X         | 3.902                     | 3.902                    | 0                    | %100               |
| 100 | M100         | Z         | 6.759                     | 6.759                    | 0                    | %100               |
| 101 | M107         | X         | 0                         | 0                        | 0                    | %100               |
| 102 | M107         | Z         | 0                         | 0                        | 0                    | %100               |
| 103 | M114         | X         | 3.902                     | 3.902                    | 0                    | %100               |
| 104 | M114         | Z         | 6.759                     | 6.759                    | 0                    | %100               |
| 105 | M117         | X         | 0                         | 0                        | 0                    | %100               |
| 106 | M117         | Z         | 0                         | 0                        | 0                    | %100               |
| 107 | M118         | X         | 4.834                     | 4.834                    | 0                    | %100               |
| 108 | M118         | Z         | 8.373                     | 8.373                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 109 | M119         | X         | 4.834                     | 4.834                    | 0                     | %100                |
| 110 | M119         | Z         | 8.373                     | 8.373                    | 0                     | %100                |
| 111 | M121         | X         | 4.374                     | 4.374                    | 0                     | %100                |
| 112 | M121         | Z         | 7.575                     | 7.575                    | 0                     | %100                |
| 113 | M123         | X         | 7.757                     | 7.757                    | 0                     | %100                |
| 114 | M123         | Z         | 13.435                    | 13.435                   | 0                     | %100                |
| 115 | M125A        | X         | 4.374                     | 4.374                    | 0                     | %100                |
| 116 | M125A        | Z         | 7.575                     | 7.575                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 0                         | 0                        | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | 0                         | 0                        | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 7.933                     | 7.933                    | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 7.933                     | 7.933                    | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 5.429                     | 5.429                    | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | 2.639                     | 2.639                    | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | 2.639                     | 2.639                    | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | 10.557                    | 10.557                   | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | 2.586                     | 2.586                    | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | 2.586                     | 2.586                    | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | 10.344                    | 10.344                   | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | 2.639                     | 2.639                    | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | 2.639                     | 2.639                    | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | 10.557                    | 10.557                   | 0                     | %100                |
| 29 | M28          | X         | 0                         | 0                        | 0                     | %100                |
| 30 | M28          | Z         | 9e-6                      | 9e-6                     | 0                     | %100                |
| 31 | M29          | X         | 0                         | 0                        | 0                     | %100                |
| 32 | M29          | Z         | 5.572                     | 5.572                    | 0                     | %100                |
| 33 | M30          | X         | 0                         | 0                        | 0                     | %100                |
| 34 | M30          | Z         | 5.587                     | 5.587                    | 0                     | %100                |
| 35 | M31          | X         | 0                         | 0                        | 0                     | %100                |
| 36 | M31          | Z         | 5.572                     | 5.572                    | 0                     | %100                |
| 37 | M32          | X         | 0                         | 0                        | 0                     | %100                |
| 38 | M32          | Z         | 9e-6                      | 9e-6                     | 0                     | %100                |
| 39 | M33          | X         | 0                         | 0                        | 0                     | %100                |
| 40 | M33          | Z         | 5.587                     | 5.587                    | 0                     | %100                |
| 41 | M38          | X         | 0                         | 0                        | 0                     | %100                |
| 42 | M38          | Z         | 0                         | 0                        | 0                     | %100                |
| 43 | M39          | X         | 0                         | 0                        | 0                     | %100                |
| 44 | M39          | Z         | 0                         | 0                        | 0                     | %100                |
| 45 | M44          | X         | 0                         | 0                        | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 46  | M44          | Z         | 9.086                     | 9.086                    | 0                    | %100               |
| 47  | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48  | M45          | Z         | 9.086                     | 9.086                    | 0                    | %100               |
| 49  | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50  | M50          | Z         | 9.086                     | 9.086                    | 0                    | %100               |
| 51  | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52  | M51          | Z         | 9.086                     | 9.086                    | 0                    | %100               |
| 53  | MP5A         | X         | 0                         | 0                        | 0                    | %100               |
| 54  | MP5A         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 55  | MP4A         | X         | 0                         | 0                        | 0                    | %100               |
| 56  | MP4A         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 57  | MP2A         | X         | 0                         | 0                        | 0                    | %100               |
| 58  | MP2A         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 59  | MP1A         | X         | 0                         | 0                        | 0                    | %100               |
| 60  | MP1A         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 61  | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62  | M122A        | Z         | 21.717                    | 21.717                   | 0                    | %100               |
| 63  | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64  | M123A        | Z         | 5.429                     | 5.429                    | 0                    | %100               |
| 65  | M128         | X         | 0                         | 0                        | 0                    | %100               |
| 66  | M128         | Z         | 1.3e-5                    | 1.3e-5                   | 0                    | %100               |
| 67  | M129         | X         | 0                         | 0                        | 0                    | %100               |
| 68  | M129         | Z         | 1.3e-5                    | 1.3e-5                   | 0                    | %100               |
| 69  | M138         | X         | 0                         | 0                        | 0                    | %100               |
| 70  | M138         | Z         | 7.556                     | 7.556                    | 0                    | %100               |
| 71  | M141         | X         | 0                         | 0                        | 0                    | %100               |
| 72  | M141         | Z         | 7.576                     | 7.576                    | 0                    | %100               |
| 73  | M150         | X         | 0                         | 0                        | 0                    | %100               |
| 74  | M150         | Z         | 7.576                     | 7.576                    | 0                    | %100               |
| 75  | M153         | X         | 0                         | 0                        | 0                    | %100               |
| 76  | M153         | Z         | 7.556                     | 7.556                    | 0                    | %100               |
| 77  | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78  | M98A         | Z         | 7.246                     | 7.246                    | 0                    | %100               |
| 79  | M99          | X         | 0                         | 0                        | 0                    | %100               |
| 80  | M99          | Z         | 7.246                     | 7.246                    | 0                    | %100               |
| 81  | MP4C         | X         | 0                         | 0                        | 0                    | %100               |
| 82  | MP4C         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 83  | MP3C         | X         | 0                         | 0                        | 0                    | %100               |
| 84  | MP3C         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 85  | MP2C         | X         | 0                         | 0                        | 0                    | %100               |
| 86  | MP2C         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 87  | MP1C         | X         | 0                         | 0                        | 0                    | %100               |
| 88  | MP1C         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 89  | MP4B         | X         | 0                         | 0                        | 0                    | %100               |
| 90  | MP4B         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 91  | MP3B         | X         | 0                         | 0                        | 0                    | %100               |
| 92  | MP3B         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 93  | MP2B         | X         | 0                         | 0                        | 0                    | %100               |
| 94  | MP2B         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 95  | MP1B         | X         | 0                         | 0                        | 0                    | %100               |
| 96  | MP1B         | Z         | 8.596                     | 8.596                    | 0                    | %100               |
| 97  | OVP          | X         | 0                         | 0                        | 0                    | %100               |
| 98  | OVP          | Z         | 7.03                      | 7.03                     | 0                    | %100               |
| 99  | M100         | X         | 0                         | 0                        | 0                    | %100               |
| 100 | M100         | Z         | 10.406                    | 10.406                   | 0                    | %100               |
| 101 | M107         | X         | 0                         | 0                        | 0                    | %100               |
| 102 | M107         | Z         | 2.602                     | 2.602                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 2.602                     | 2.602                    | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | 3.223                     | 3.223                    | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 12.891                    | 12.891                   | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 3.223                     | 3.223                    | 0                     | %100                |
| 111 | M121         | X         | 0                         | 0                        | 0                     | %100                |
| 112 | M121         | Z         | 6.492                     | 6.492                    | 0                     | %100                |
| 113 | M123         | X         | 0                         | 0                        | 0                     | %100                |
| 114 | M123         | Z         | 13.258                    | 13.258                   | 0                     | %100                |
| 115 | M125A        | X         | 0                         | 0                        | 0                     | %100                |
| 116 | M125A        | Z         | 13.258                    | 13.258                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -1.208                    | -1.208                   | 0                     | %100                |
| 2  | M4           | Z         | 2.092                     | 2.092                    | 0                     | %100                |
| 3  | M5           | X         | -1.322                    | -1.322                   | 0                     | %100                |
| 4  | M5           | Z         | 2.29                      | 2.29                     | 0                     | %100                |
| 5  | M11          | X         | -1.322                    | -1.322                   | 0                     | %100                |
| 6  | M11          | Z         | 2.29                      | 2.29                     | 0                     | %100                |
| 7  | M17          | X         | -5.289                    | -5.289                   | 0                     | %100                |
| 8  | M17          | Z         | 9.16                      | 9.16                     | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | -3.959                    | -3.959                   | 0                     | %100                |
| 12 | M19          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | -3.959                    | -3.959                   | 0                     | %100                |
| 16 | M21          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 17 | M22          | X         | -3.879                    | -3.879                   | 0                     | %100                |
| 18 | M22          | Z         | 6.719                     | 6.719                    | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | -3.879                    | -3.879                   | 0                     | %100                |
| 22 | M24          | Z         | 6.719                     | 6.719                    | 0                     | %100                |
| 23 | M25          | X         | -3.959                    | -3.959                   | 0                     | %100                |
| 24 | M25          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | -3.959                    | -3.959                   | 0                     | %100                |
| 28 | M27          | Z         | 6.857                     | 6.857                    | 0                     | %100                |
| 29 | M28          | X         | -.934                     | -.934                    | 0                     | %100                |
| 30 | M28          | Z         | 1.617                     | 1.617                    | 0                     | %100                |
| 31 | M29          | X         | -.926                     | -.926                    | 0                     | %100                |
| 32 | M29          | Z         | 1.604                     | 1.604                    | 0                     | %100                |
| 33 | M30          | X         | -3.72                     | -3.72                    | 0                     | %100                |
| 34 | M30          | Z         | 6.443                     | 6.443                    | 0                     | %100                |
| 35 | M31          | X         | -3.72                     | -3.72                    | 0                     | %100                |
| 36 | M31          | Z         | 6.443                     | 6.443                    | 0                     | %100                |
| 37 | M32          | X         | -.926                     | -.926                    | 0                     | %100                |
| 38 | M32          | Z         | 1.604                     | 1.604                    | 0                     | %100                |
| 39 | M33          | X         | -.934                     | -.934                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 40 | M33          | Z         | 1.617                     | 1.617                    | 0                    | %100               |
| 41 | M38          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 42 | M38          | Z         | 2.623                     | 2.623                    | 0                    | %100               |
| 43 | M39          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 44 | M39          | Z         | 2.623                     | 2.623                    | 0                    | %100               |
| 45 | M44          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 46 | M44          | Z         | 2.623                     | 2.623                    | 0                    | %100               |
| 47 | M45          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 48 | M45          | Z         | 2.623                     | 2.623                    | 0                    | %100               |
| 49 | M50          | X         | -6.058                    | -6.058                   | 0                    | %100               |
| 50 | M50          | Z         | 10.492                    | 10.492                   | 0                    | %100               |
| 51 | M51          | X         | -6.058                    | -6.058                   | 0                    | %100               |
| 52 | M51          | Z         | 10.492                    | 10.492                   | 0                    | %100               |
| 53 | MP5A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 54 | MP5A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 55 | MP4A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 56 | MP4A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 57 | MP2A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 58 | MP2A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 59 | MP1A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 60 | MP1A         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 61 | M122A        | X         | -8.144                    | -8.144                   | 0                    | %100               |
| 62 | M122A        | Z         | 14.106                    | 14.106                   | 0                    | %100               |
| 63 | M123A        | X         | -8.144                    | -8.144                   | 0                    | %100               |
| 64 | M123A        | Z         | 14.106                    | 14.106                   | 0                    | %100               |
| 65 | M128         | X         | -1.266                    | -1.266                   | 0                    | %100               |
| 66 | M128         | Z         | 2.193                     | 2.193                    | 0                    | %100               |
| 67 | M129         | X         | -1.256                    | -1.256                   | 0                    | %100               |
| 68 | M129         | Z         | 2.176                     | 2.176                    | 0                    | %100               |
| 69 | M138         | X         | -1.256                    | -1.256                   | 0                    | %100               |
| 70 | M138         | Z         | 2.176                     | 2.176                    | 0                    | %100               |
| 71 | M141         | X         | -1.266                    | -1.266                   | 0                    | %100               |
| 72 | M141         | Z         | 2.193                     | 2.193                    | 0                    | %100               |
| 73 | M150         | X         | -5.044                    | -5.044                   | 0                    | %100               |
| 74 | M150         | Z         | 8.736                     | 8.736                    | 0                    | %100               |
| 75 | M153         | X         | -5.044                    | -5.044                   | 0                    | %100               |
| 76 | M153         | Z         | 8.736                     | 8.736                    | 0                    | %100               |
| 77 | M98A         | X         | -1.208                    | -1.208                   | 0                    | %100               |
| 78 | M98A         | Z         | 2.092                     | 2.092                    | 0                    | %100               |
| 79 | M99          | X         | -4.831                    | -4.831                   | 0                    | %100               |
| 80 | M99          | Z         | 8.367                     | 8.367                    | 0                    | %100               |
| 81 | MP4C         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 82 | MP4C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 83 | MP3C         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 84 | MP3C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 85 | MP2C         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 86 | MP2C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 87 | MP1C         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 88 | MP1C         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 89 | MP4B         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 90 | MP4B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 91 | MP3B         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 92 | MP3B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 93 | MP2B         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 94 | MP2B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |
| 95 | MP1B         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 96 | MP1B         | Z         | 7.445                     | 7.445                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 97  | OVP          | X         | -3.515                    | -3.515                   | 0                     | %100                |
| 98  | OVP          | Z         | 6.088                     | 6.088                    | 0                     | %100                |
| 99  | M100         | X         | -3.902                    | -3.902                   | 0                     | %100                |
| 100 | M100         | Z         | 6.759                     | 6.759                    | 0                     | %100                |
| 101 | M107         | X         | -3.902                    | -3.902                   | 0                     | %100                |
| 102 | M107         | Z         | 6.759                     | 6.759                    | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | -4.834                    | -4.834                   | 0                     | %100                |
| 106 | M117         | Z         | 8.373                     | 8.373                    | 0                     | %100                |
| 107 | M118         | X         | -4.834                    | -4.834                   | 0                     | %100                |
| 108 | M118         | Z         | 8.373                     | 8.373                    | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | -4.374                    | -4.374                   | 0                     | %100                |
| 112 | M121         | Z         | 7.575                     | 7.575                    | 0                     | %100                |
| 113 | M123         | X         | -4.374                    | -4.374                   | 0                     | %100                |
| 114 | M123         | Z         | 7.575                     | 7.575                    | 0                     | %100                |
| 115 | M125A        | X         | -7.757                    | -7.757                   | 0                     | %100                |
| 116 | M125A        | Z         | 13.435                    | 13.435                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -6.275                    | -6.275                   | 0                     | %100                |
| 2  | M4           | Z         | 3.623                     | 3.623                    | 0                     | %100                |
| 3  | M5           | X         | -6.87                     | -6.87                    | 0                     | %100                |
| 4  | M5           | Z         | 3.967                     | 3.967                    | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | -6.87                     | -6.87                    | 0                     | %100                |
| 8  | M17          | Z         | 3.967                     | 3.967                    | 0                     | %100                |
| 9  | M18          | X         | -4.702                    | -4.702                   | 0                     | %100                |
| 10 | M18          | Z         | 2.715                     | 2.715                    | 0                     | %100                |
| 11 | M19          | X         | -9.143                    | -9.143                   | 0                     | %100                |
| 12 | M19          | Z         | 5.278                     | 5.278                    | 0                     | %100                |
| 13 | M20          | X         | -2.286                    | -2.286                   | 0                     | %100                |
| 14 | M20          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 15 | M21          | X         | -2.286                    | -2.286                   | 0                     | %100                |
| 16 | M21          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 17 | M22          | X         | -8.958                    | -8.958                   | 0                     | %100                |
| 18 | M22          | Z         | 5.172                     | 5.172                    | 0                     | %100                |
| 19 | M23          | X         | -2.24                     | -2.24                    | 0                     | %100                |
| 20 | M23          | Z         | 1.293                     | 1.293                    | 0                     | %100                |
| 21 | M24          | X         | -2.24                     | -2.24                    | 0                     | %100                |
| 22 | M24          | Z         | 1.293                     | 1.293                    | 0                     | %100                |
| 23 | M25          | X         | -9.143                    | -9.143                   | 0                     | %100                |
| 24 | M25          | Z         | 5.278                     | 5.278                    | 0                     | %100                |
| 25 | M26          | X         | -2.286                    | -2.286                   | 0                     | %100                |
| 26 | M26          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 27 | M27          | X         | -2.286                    | -2.286                   | 0                     | %100                |
| 28 | M27          | Z         | 1.32                      | 1.32                     | 0                     | %100                |
| 29 | M28          | X         | -4.838                    | -4.838                   | 0                     | %100                |
| 30 | M28          | Z         | 2.793                     | 2.793                    | 0                     | %100                |
| 31 | M29          | X         | -8e-6                     | -8e-6                    | 0                     | %100                |
| 32 | M29          | Z         | 5e-6                      | 5e-6                     | 0                     | %100                |
| 33 | M30          | X         | -4.826                    | -4.826                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude lb/ft,... | End Magnitude lb/ft,F... | Start Location ft, % | End Location ft, % |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 34 | M30          | Z         | 2.786                     | 2.786                    | 0                    | %100               |
| 35 | M31          | X         | -4.838                    | -4.838                   | 0                    | %100               |
| 36 | M31          | Z         | 2.793                     | 2.793                    | 0                    | %100               |
| 37 | M32          | X         | -4.826                    | -4.826                   | 0                    | %100               |
| 38 | M32          | Z         | 2.786                     | 2.786                    | 0                    | %100               |
| 39 | M33          | X         | -8e-6                     | -8e-6                    | 0                    | %100               |
| 40 | M33          | Z         | 5e-6                      | 5e-6                     | 0                    | %100               |
| 41 | M38          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 42 | M38          | Z         | 4.543                     | 4.543                    | 0                    | %100               |
| 43 | M39          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 44 | M39          | Z         | 4.543                     | 4.543                    | 0                    | %100               |
| 45 | M44          | X         | 0                         | 0                        | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 50 | M50          | Z         | 4.543                     | 4.543                    | 0                    | %100               |
| 51 | M51          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 52 | M51          | Z         | 4.543                     | 4.543                    | 0                    | %100               |
| 53 | MP5A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 54 | MP5A         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 55 | MP4A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 56 | MP4A         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 57 | MP2A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 58 | MP2A         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 59 | MP1A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 60 | MP1A         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 61 | M122A        | X         | -4.702                    | -4.702                   | 0                    | %100               |
| 62 | M122A        | Z         | 2.715                     | 2.715                    | 0                    | %100               |
| 63 | M123A        | X         | -18.807                   | -18.807                  | 0                    | %100               |
| 64 | M123A        | Z         | 10.859                    | 10.859                   | 0                    | %100               |
| 65 | M128         | X         | -6.561                    | -6.561                   | 0                    | %100               |
| 66 | M128         | Z         | 3.788                     | 3.788                    | 0                    | %100               |
| 67 | M129         | X         | -6.544                    | -6.544                   | 0                    | %100               |
| 68 | M129         | Z         | 3.778                     | 3.778                    | 0                    | %100               |
| 69 | M138         | X         | -1.1e-5                   | -1.1e-5                  | 0                    | %100               |
| 70 | M138         | Z         | 6e-6                      | 6e-6                     | 0                    | %100               |
| 71 | M141         | X         | -1.1e-5                   | -1.1e-5                  | 0                    | %100               |
| 72 | M141         | Z         | 6e-6                      | 6e-6                     | 0                    | %100               |
| 73 | M150         | X         | -6.544                    | -6.544                   | 0                    | %100               |
| 74 | M150         | Z         | 3.778                     | 3.778                    | 0                    | %100               |
| 75 | M153         | X         | -6.561                    | -6.561                   | 0                    | %100               |
| 76 | M153         | Z         | 3.788                     | 3.788                    | 0                    | %100               |
| 77 | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78 | M98A         | Z         | 0                         | 0                        | 0                    | %100               |
| 79 | M99          | X         | -6.275                    | -6.275                   | 0                    | %100               |
| 80 | M99          | Z         | 3.623                     | 3.623                    | 0                    | %100               |
| 81 | MP4C         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 82 | MP4C         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 83 | MP3C         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 84 | MP3C         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 85 | MP2C         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 86 | MP2C         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 87 | MP1C         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 88 | MP1C         | Z         | 4.298                     | 4.298                    | 0                    | %100               |
| 89 | MP4B         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 90 | MP4B         | Z         | 4.298                     | 4.298                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91  | MP3B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 92  | MP3B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 93  | MP2B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 94  | MP2B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 95  | MP1B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 96  | MP1B         | Z         | 4.298                     | 4.298                    | 0                     | %100                |
| 97  | OVP          | X         | -6.088                    | -6.088                   | 0                     | %100                |
| 98  | OVP          | Z         | 3.515                     | 3.515                    | 0                     | %100                |
| 99  | M100         | X         | -2.253                    | -2.253                   | 0                     | %100                |
| 100 | M100         | Z         | 1.301                     | 1.301                    | 0                     | %100                |
| 101 | M107         | X         | -9.012                    | -9.012                   | 0                     | %100                |
| 102 | M107         | Z         | 5.203                     | 5.203                    | 0                     | %100                |
| 103 | M114         | X         | -2.253                    | -2.253                   | 0                     | %100                |
| 104 | M114         | Z         | 1.301                     | 1.301                    | 0                     | %100                |
| 105 | M117         | X         | -11.164                   | -11.164                  | 0                     | %100                |
| 106 | M117         | Z         | 6.446                     | 6.446                    | 0                     | %100                |
| 107 | M118         | X         | -2.791                    | -2.791                   | 0                     | %100                |
| 108 | M118         | Z         | 1.611                     | 1.611                    | 0                     | %100                |
| 109 | M119         | X         | -2.791                    | -2.791                   | 0                     | %100                |
| 110 | M119         | Z         | 1.611                     | 1.611                    | 0                     | %100                |
| 111 | M121         | X         | -11.482                   | -11.482                  | 0                     | %100                |
| 112 | M121         | Z         | 6.629                     | 6.629                    | 0                     | %100                |
| 113 | M123         | X         | -5.622                    | -5.622                   | 0                     | %100                |
| 114 | M123         | Z         | 3.246                     | 3.246                    | 0                     | %100                |
| 115 | M125A        | X         | -11.482                   | -11.482                  | 0                     | %100                |
| 116 | M125A        | Z         | 6.629                     | 6.629                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -9.661                    | -9.661                   | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | -10.578                   | -10.578                  | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | -2.644                    | -2.644                   | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | -2.644                    | -2.644                   | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | -16.288                   | -16.288                  | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | -7.918                    | -7.918                   | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | -7.918                    | -7.918                   | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | 0                         | 0                        | 0                     | %100                |
| 17 | M22          | X         | -7.758                    | -7.758                   | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | -7.758                    | -7.758                   | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | 0                         | 0                        | 0                     | %100                |
| 23 | M25          | X         | -7.918                    | -7.918                   | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | -7.918                    | -7.918                   | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 28 | M27          | Z         | 0                         | 0                        | 0                    | %100               |
| 29 | M28          | X         | -7.439                    | -7.439                   | 0                    | %100               |
| 30 | M28          | Z         | 0                         | 0                        | 0                    | %100               |
| 31 | M29          | X         | -1.867                    | -1.867                   | 0                    | %100               |
| 32 | M29          | Z         | 0                         | 0                        | 0                    | %100               |
| 33 | M30          | X         | -1.853                    | -1.853                   | 0                    | %100               |
| 34 | M30          | Z         | 0                         | 0                        | 0                    | %100               |
| 35 | M31          | X         | -1.867                    | -1.867                   | 0                    | %100               |
| 36 | M31          | Z         | 0                         | 0                        | 0                    | %100               |
| 37 | M32          | X         | -7.439                    | -7.439                   | 0                    | %100               |
| 38 | M32          | Z         | 0                         | 0                        | 0                    | %100               |
| 39 | M33          | X         | -1.853                    | -1.853                   | 0                    | %100               |
| 40 | M33          | Z         | 0                         | 0                        | 0                    | %100               |
| 41 | M38          | X         | -12.115                   | -12.115                  | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | -12.115                   | -12.115                  | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | -3.029                    | -3.029                   | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | -3.029                    | -3.029                   | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | -3.029                    | -3.029                   | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | -3.029                    | -3.029                   | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | -8.596                    | -8.596                   | 0                    | %100               |
| 54 | MP5A         | Z         | 0                         | 0                        | 0                    | %100               |
| 55 | MP4A         | X         | -8.596                    | -8.596                   | 0                    | %100               |
| 56 | MP4A         | Z         | 0                         | 0                        | 0                    | %100               |
| 57 | MP2A         | X         | -8.596                    | -8.596                   | 0                    | %100               |
| 58 | MP2A         | Z         | 0                         | 0                        | 0                    | %100               |
| 59 | MP1A         | X         | -8.596                    | -8.596                   | 0                    | %100               |
| 60 | MP1A         | Z         | 0                         | 0                        | 0                    | %100               |
| 61 | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62 | M122A        | Z         | 0                         | 0                        | 0                    | %100               |
| 63 | M123A        | X         | -16.288                   | -16.288                  | 0                    | %100               |
| 64 | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65 | M128         | X         | -10.088                   | -10.088                  | 0                    | %100               |
| 66 | M128         | Z         | 0                         | 0                        | 0                    | %100               |
| 67 | M129         | X         | -10.088                   | -10.088                  | 0                    | %100               |
| 68 | M129         | Z         | 0                         | 0                        | 0                    | %100               |
| 69 | M138         | X         | -2.532                    | -2.532                   | 0                    | %100               |
| 70 | M138         | Z         | 0                         | 0                        | 0                    | %100               |
| 71 | M141         | X         | -2.512                    | -2.512                   | 0                    | %100               |
| 72 | M141         | Z         | 0                         | 0                        | 0                    | %100               |
| 73 | M150         | X         | -2.512                    | -2.512                   | 0                    | %100               |
| 74 | M150         | Z         | 0                         | 0                        | 0                    | %100               |
| 75 | M153         | X         | -2.532                    | -2.532                   | 0                    | %100               |
| 76 | M153         | Z         | 0                         | 0                        | 0                    | %100               |
| 77 | M98A         | X         | -2.415                    | -2.415                   | 0                    | %100               |
| 78 | M98A         | Z         | 0                         | 0                        | 0                    | %100               |
| 79 | M99          | X         | -2.415                    | -2.415                   | 0                    | %100               |
| 80 | M99          | Z         | 0                         | 0                        | 0                    | %100               |
| 81 | MP4C         | X         | -8.596                    | -8.596                   | 0                    | %100               |
| 82 | MP4C         | Z         | 0                         | 0                        | 0                    | %100               |
| 83 | MP3C         | X         | -8.596                    | -8.596                   | 0                    | %100               |
| 84 | MP3C         | Z         | 0                         | 0                        | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 85  | MP2C         | X         | -8.596                    | -8.596                   | 0                     | %100                |
| 86  | MP2C         | Z         | 0                         | 0                        | 0                     | %100                |
| 87  | MP1C         | X         | -8.596                    | -8.596                   | 0                     | %100                |
| 88  | MP1C         | Z         | 0                         | 0                        | 0                     | %100                |
| 89  | MP4B         | X         | -8.596                    | -8.596                   | 0                     | %100                |
| 90  | MP4B         | Z         | 0                         | 0                        | 0                     | %100                |
| 91  | MP3B         | X         | -8.596                    | -8.596                   | 0                     | %100                |
| 92  | MP3B         | Z         | 0                         | 0                        | 0                     | %100                |
| 93  | MP2B         | X         | -8.596                    | -8.596                   | 0                     | %100                |
| 94  | MP2B         | Z         | 0                         | 0                        | 0                     | %100                |
| 95  | MP1B         | X         | -8.596                    | -8.596                   | 0                     | %100                |
| 96  | MP1B         | Z         | 0                         | 0                        | 0                     | %100                |
| 97  | OVP          | X         | -7.03                     | -7.03                    | 0                     | %100                |
| 98  | OVP          | Z         | 0                         | 0                        | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | 0                         | 0                        | 0                     | %100                |
| 101 | M107         | X         | -7.805                    | -7.805                   | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | -7.805                    | -7.805                   | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | -9.668                    | -9.668                   | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 0                         | 0                        | 0                     | %100                |
| 109 | M119         | X         | -9.668                    | -9.668                   | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | -15.513                   | -15.513                  | 0                     | %100                |
| 112 | M121         | Z         | 0                         | 0                        | 0                     | %100                |
| 113 | M123         | X         | -8.747                    | -8.747                   | 0                     | %100                |
| 114 | M123         | Z         | 0                         | 0                        | 0                     | %100                |
| 115 | M125A        | X         | -8.747                    | -8.747                   | 0                     | %100                |
| 116 | M125A        | Z         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -6.275                    | -6.275                   | 0                     | %100                |
| 2  | M4           | Z         | -3.623                    | -3.623                   | 0                     | %100                |
| 3  | M5           | X         | -6.87                     | -6.87                    | 0                     | %100                |
| 4  | M5           | Z         | -3.967                    | -3.967                   | 0                     | %100                |
| 5  | M11          | X         | -6.87                     | -6.87                    | 0                     | %100                |
| 6  | M11          | Z         | -3.967                    | -3.967                   | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | -18.807                   | -18.807                  | 0                     | %100                |
| 10 | M18          | Z         | -10.859                   | -10.859                  | 0                     | %100                |
| 11 | M19          | X         | -2.286                    | -2.286                   | 0                     | %100                |
| 12 | M19          | Z         | -1.32                     | -1.32                    | 0                     | %100                |
| 13 | M20          | X         | -9.143                    | -9.143                   | 0                     | %100                |
| 14 | M20          | Z         | -5.278                    | -5.278                   | 0                     | %100                |
| 15 | M21          | X         | -2.286                    | -2.286                   | 0                     | %100                |
| 16 | M21          | Z         | -1.32                     | -1.32                    | 0                     | %100                |
| 17 | M22          | X         | -2.24                     | -2.24                    | 0                     | %100                |
| 18 | M22          | Z         | -1.293                    | -1.293                   | 0                     | %100                |
| 19 | M23          | X         | -8.958                    | -8.958                   | 0                     | %100                |
| 20 | M23          | Z         | -5.172                    | -5.172                   | 0                     | %100                |
| 21 | M24          | X         | -2.24                     | -2.24                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 22 | M24          | Z         | -1.293                    | -1.293                   | 0                    | %100               |
| 23 | M25          | X         | -2.286                    | -2.286                   | 0                    | %100               |
| 24 | M25          | Z         | -1.32                     | -1.32                    | 0                    | %100               |
| 25 | M26          | X         | -9.143                    | -9.143                   | 0                    | %100               |
| 26 | M26          | Z         | -5.278                    | -5.278                   | 0                    | %100               |
| 27 | M27          | X         | -2.286                    | -2.286                   | 0                    | %100               |
| 28 | M27          | Z         | -1.32                     | -1.32                    | 0                    | %100               |
| 29 | M28          | X         | -4.826                    | -4.826                   | 0                    | %100               |
| 30 | M28          | Z         | -2.786                    | -2.786                   | 0                    | %100               |
| 31 | M29          | X         | -4.838                    | -4.838                   | 0                    | %100               |
| 32 | M29          | Z         | -2.793                    | -2.793                   | 0                    | %100               |
| 33 | M30          | X         | -8e-6                     | -8e-6                    | 0                    | %100               |
| 34 | M30          | Z         | -5e-6                     | -5e-6                    | 0                    | %100               |
| 35 | M31          | X         | -8e-6                     | -8e-6                    | 0                    | %100               |
| 36 | M31          | Z         | -5e-6                     | -5e-6                    | 0                    | %100               |
| 37 | M32          | X         | -4.838                    | -4.838                   | 0                    | %100               |
| 38 | M32          | Z         | -2.793                    | -2.793                   | 0                    | %100               |
| 39 | M33          | X         | -4.826                    | -4.826                   | 0                    | %100               |
| 40 | M33          | Z         | -2.786                    | -2.786                   | 0                    | %100               |
| 41 | M38          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 42 | M38          | Z         | -4.543                    | -4.543                   | 0                    | %100               |
| 43 | M39          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 44 | M39          | Z         | -4.543                    | -4.543                   | 0                    | %100               |
| 45 | M44          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 46 | M44          | Z         | -4.543                    | -4.543                   | 0                    | %100               |
| 47 | M45          | X         | -7.869                    | -7.869                   | 0                    | %100               |
| 48 | M45          | Z         | -4.543                    | -4.543                   | 0                    | %100               |
| 49 | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 54 | MP5A         | Z         | -4.298                    | -4.298                   | 0                    | %100               |
| 55 | MP4A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 56 | MP4A         | Z         | -4.298                    | -4.298                   | 0                    | %100               |
| 57 | MP2A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 58 | MP2A         | Z         | -4.298                    | -4.298                   | 0                    | %100               |
| 59 | MP1A         | X         | -7.445                    | -7.445                   | 0                    | %100               |
| 60 | MP1A         | Z         | -4.298                    | -4.298                   | 0                    | %100               |
| 61 | M122A        | X         | -4.702                    | -4.702                   | 0                    | %100               |
| 62 | M122A        | Z         | -2.715                    | -2.715                   | 0                    | %100               |
| 63 | M123A        | X         | -4.702                    | -4.702                   | 0                    | %100               |
| 64 | M123A        | Z         | -2.715                    | -2.715                   | 0                    | %100               |
| 65 | M128         | X         | -6.544                    | -6.544                   | 0                    | %100               |
| 66 | M128         | Z         | -3.778                    | -3.778                   | 0                    | %100               |
| 67 | M129         | X         | -6.561                    | -6.561                   | 0                    | %100               |
| 68 | M129         | Z         | -3.788                    | -3.788                   | 0                    | %100               |
| 69 | M138         | X         | -6.561                    | -6.561                   | 0                    | %100               |
| 70 | M138         | Z         | -3.788                    | -3.788                   | 0                    | %100               |
| 71 | M141         | X         | -6.544                    | -6.544                   | 0                    | %100               |
| 72 | M141         | Z         | -3.778                    | -3.778                   | 0                    | %100               |
| 73 | M150         | X         | -1.1e-5                   | -1.1e-5                  | 0                    | %100               |
| 74 | M150         | Z         | -6e-6                     | -6e-6                    | 0                    | %100               |
| 75 | M153         | X         | -1.1e-5                   | -1.1e-5                  | 0                    | %100               |
| 76 | M153         | Z         | -6e-6                     | -6e-6                    | 0                    | %100               |
| 77 | M98A         | X         | -6.275                    | -6.275                   | 0                    | %100               |
| 78 | M98A         | Z         | -3.623                    | -3.623                   | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 79  | M99          | X         | 0                         | 0                        | 0                     | %100                |
| 80  | M99          | Z         | 0                         | 0                        | 0                     | %100                |
| 81  | MP4C         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 82  | MP4C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 83  | MP3C         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 84  | MP3C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 85  | MP2C         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 86  | MP2C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 87  | MP1C         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 88  | MP1C         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 89  | MP4B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 90  | MP4B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 91  | MP3B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 92  | MP3B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 93  | MP2B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 94  | MP2B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 95  | MP1B         | X         | -7.445                    | -7.445                   | 0                     | %100                |
| 96  | MP1B         | Z         | -4.298                    | -4.298                   | 0                     | %100                |
| 97  | OVP          | X         | -6.088                    | -6.088                   | 0                     | %100                |
| 98  | OVP          | Z         | -3.515                    | -3.515                   | 0                     | %100                |
| 99  | M100         | X         | -2.253                    | -2.253                   | 0                     | %100                |
| 100 | M100         | Z         | -1.301                    | -1.301                   | 0                     | %100                |
| 101 | M107         | X         | -2.253                    | -2.253                   | 0                     | %100                |
| 102 | M107         | Z         | -1.301                    | -1.301                   | 0                     | %100                |
| 103 | M114         | X         | -9.012                    | -9.012                   | 0                     | %100                |
| 104 | M114         | Z         | -5.203                    | -5.203                   | 0                     | %100                |
| 105 | M117         | X         | -2.791                    | -2.791                   | 0                     | %100                |
| 106 | M117         | Z         | -1.611                    | -1.611                   | 0                     | %100                |
| 107 | M118         | X         | -2.791                    | -2.791                   | 0                     | %100                |
| 108 | M118         | Z         | -1.611                    | -1.611                   | 0                     | %100                |
| 109 | M119         | X         | -11.164                   | -11.164                  | 0                     | %100                |
| 110 | M119         | Z         | -6.446                    | -6.446                   | 0                     | %100                |
| 111 | M121         | X         | -11.482                   | -11.482                  | 0                     | %100                |
| 112 | M121         | Z         | -6.629                    | -6.629                   | 0                     | %100                |
| 113 | M123         | X         | -11.482                   | -11.482                  | 0                     | %100                |
| 114 | M123         | Z         | -6.629                    | -6.629                   | 0                     | %100                |
| 115 | M125A        | X         | -5.622                    | -5.622                   | 0                     | %100                |
| 116 | M125A        | Z         | -3.246                    | -3.246                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -1.208                    | -1.208                   | 0                     | %100                |
| 2  | M4           | Z         | -2.092                    | -2.092                   | 0                     | %100                |
| 3  | M5           | X         | -1.322                    | -1.322                   | 0                     | %100                |
| 4  | M5           | Z         | -2.29                     | -2.29                    | 0                     | %100                |
| 5  | M11          | X         | -5.289                    | -5.289                   | 0                     | %100                |
| 6  | M11          | Z         | -9.16                     | -9.16                    | 0                     | %100                |
| 7  | M17          | X         | -1.322                    | -1.322                   | 0                     | %100                |
| 8  | M17          | Z         | -2.29                     | -2.29                    | 0                     | %100                |
| 9  | M18          | X         | -8.144                    | -8.144                   | 0                     | %100                |
| 10 | M18          | Z         | -14.106                   | -14.106                  | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | -3.959                    | -3.959                   | 0                     | %100                |
| 14 | M20          | Z         | -6.857                    | -6.857                   | 0                     | %100                |
| 15 | M21          | X         | -3.959                    | -3.959                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 16 | M21          | Z         | -6.857                    | -6.857                   | 0                    | %100               |
| 17 | M22          | X         | 0                         | 0                        | 0                    | %100               |
| 18 | M22          | Z         | 0                         | 0                        | 0                    | %100               |
| 19 | M23          | X         | -3.879                    | -3.879                   | 0                    | %100               |
| 20 | M23          | Z         | -6.719                    | -6.719                   | 0                    | %100               |
| 21 | M24          | X         | -3.879                    | -3.879                   | 0                    | %100               |
| 22 | M24          | Z         | -6.719                    | -6.719                   | 0                    | %100               |
| 23 | M25          | X         | 0                         | 0                        | 0                    | %100               |
| 24 | M25          | Z         | 0                         | 0                        | 0                    | %100               |
| 25 | M26          | X         | -3.959                    | -3.959                   | 0                    | %100               |
| 26 | M26          | Z         | -6.857                    | -6.857                   | 0                    | %100               |
| 27 | M27          | X         | -3.959                    | -3.959                   | 0                    | %100               |
| 28 | M27          | Z         | -6.857                    | -6.857                   | 0                    | %100               |
| 29 | M28          | X         | -.926                     | -.926                    | 0                    | %100               |
| 30 | M28          | Z         | -1.604                    | -1.604                   | 0                    | %100               |
| 31 | M29          | X         | -3.72                     | -3.72                    | 0                    | %100               |
| 32 | M29          | Z         | -6.443                    | -6.443                   | 0                    | %100               |
| 33 | M30          | X         | -.934                     | -.934                    | 0                    | %100               |
| 34 | M30          | Z         | -1.617                    | -1.617                   | 0                    | %100               |
| 35 | M31          | X         | -.926                     | -.926                    | 0                    | %100               |
| 36 | M31          | Z         | -1.604                    | -1.604                   | 0                    | %100               |
| 37 | M32          | X         | -.934                     | -.934                    | 0                    | %100               |
| 38 | M32          | Z         | -1.617                    | -1.617                   | 0                    | %100               |
| 39 | M33          | X         | -3.72                     | -3.72                    | 0                    | %100               |
| 40 | M33          | Z         | -6.443                    | -6.443                   | 0                    | %100               |
| 41 | M38          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 42 | M38          | Z         | -2.623                    | -2.623                   | 0                    | %100               |
| 43 | M39          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 44 | M39          | Z         | -2.623                    | -2.623                   | 0                    | %100               |
| 45 | M44          | X         | -6.058                    | -6.058                   | 0                    | %100               |
| 46 | M44          | Z         | -10.492                   | -10.492                  | 0                    | %100               |
| 47 | M45          | X         | -6.058                    | -6.058                   | 0                    | %100               |
| 48 | M45          | Z         | -10.492                   | -10.492                  | 0                    | %100               |
| 49 | M50          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 50 | M50          | Z         | -2.623                    | -2.623                   | 0                    | %100               |
| 51 | M51          | X         | -1.514                    | -1.514                   | 0                    | %100               |
| 52 | M51          | Z         | -2.623                    | -2.623                   | 0                    | %100               |
| 53 | MP5A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 54 | MP5A         | Z         | -7.445                    | -7.445                   | 0                    | %100               |
| 55 | MP4A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 56 | MP4A         | Z         | -7.445                    | -7.445                   | 0                    | %100               |
| 57 | MP2A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 58 | MP2A         | Z         | -7.445                    | -7.445                   | 0                    | %100               |
| 59 | MP1A         | X         | -4.298                    | -4.298                   | 0                    | %100               |
| 60 | MP1A         | Z         | -7.445                    | -7.445                   | 0                    | %100               |
| 61 | M122A        | X         | -8.144                    | -8.144                   | 0                    | %100               |
| 62 | M122A        | Z         | -14.106                   | -14.106                  | 0                    | %100               |
| 63 | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64 | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65 | M128         | X         | -1.256                    | -1.256                   | 0                    | %100               |
| 66 | M128         | Z         | -2.176                    | -2.176                   | 0                    | %100               |
| 67 | M129         | X         | -1.266                    | -1.266                   | 0                    | %100               |
| 68 | M129         | Z         | -2.193                    | -2.193                   | 0                    | %100               |
| 69 | M138         | X         | -5.044                    | -5.044                   | 0                    | %100               |
| 70 | M138         | Z         | -8.736                    | -8.736                   | 0                    | %100               |
| 71 | M141         | X         | -5.044                    | -5.044                   | 0                    | %100               |
| 72 | M141         | Z         | -8.736                    | -8.736                   | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 73  | M150         | X         | -1.266                    | -1.266                   | 0                     | %100                |
| 74  | M150         | Z         | -2.193                    | -2.193                   | 0                     | %100                |
| 75  | M153         | X         | -1.256                    | -1.256                   | 0                     | %100                |
| 76  | M153         | Z         | -2.176                    | -2.176                   | 0                     | %100                |
| 77  | M98A         | X         | -4.831                    | -4.831                   | 0                     | %100                |
| 78  | M98A         | Z         | -8.367                    | -8.367                   | 0                     | %100                |
| 79  | M99          | X         | -1.208                    | -1.208                   | 0                     | %100                |
| 80  | M99          | Z         | -2.092                    | -2.092                   | 0                     | %100                |
| 81  | MP4C         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 82  | MP4C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 83  | MP3C         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 84  | MP3C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 85  | MP2C         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 86  | MP2C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 87  | MP1C         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 88  | MP1C         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 89  | MP4B         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 90  | MP4B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 91  | MP3B         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 92  | MP3B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 93  | MP2B         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 94  | MP2B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 95  | MP1B         | X         | -4.298                    | -4.298                   | 0                     | %100                |
| 96  | MP1B         | Z         | -7.445                    | -7.445                   | 0                     | %100                |
| 97  | OVP          | X         | -3.515                    | -3.515                   | 0                     | %100                |
| 98  | OVP          | Z         | -6.088                    | -6.088                   | 0                     | %100                |
| 99  | M100         | X         | -3.902                    | -3.902                   | 0                     | %100                |
| 100 | M100         | Z         | -6.759                    | -6.759                   | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | -3.902                    | -3.902                   | 0                     | %100                |
| 104 | M114         | Z         | -6.759                    | -6.759                   | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | -4.834                    | -4.834                   | 0                     | %100                |
| 108 | M118         | Z         | -8.373                    | -8.373                   | 0                     | %100                |
| 109 | M119         | X         | -4.834                    | -4.834                   | 0                     | %100                |
| 110 | M119         | Z         | -8.373                    | -8.373                   | 0                     | %100                |
| 111 | M121         | X         | -4.374                    | -4.374                   | 0                     | %100                |
| 112 | M121         | Z         | -7.575                    | -7.575                   | 0                     | %100                |
| 113 | M123         | X         | -7.757                    | -7.757                   | 0                     | %100                |
| 114 | M123         | Z         | -13.435                   | -13.435                  | 0                     | %100                |
| 115 | M125A        | X         | -4.374                    | -4.374                   | 0                     | %100                |
| 116 | M125A        | Z         | -7.575                    | -7.575                   | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | 0                         | 0                        | 0                     | %100                |
| 2 | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3 | M5           | X         | 0                         | 0                        | 0                     | %100                |
| 4 | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5 | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6 | M11          | Z         | -2.266                    | -2.266                   | 0                     | %100                |
| 7 | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8 | M17          | Z         | -2.266                    | -2.266                   | 0                     | %100                |
| 9 | M18          | X         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 10 | M18          | Z         | -1.079                    | -1.079                   | 0                    | %100               |
| 11 | M19          | X         | 0                         | 0                        | 0                    | %100               |
| 12 | M19          | Z         | -.751                     | -.751                    | 0                    | %100               |
| 13 | M20          | X         | 0                         | 0                        | 0                    | %100               |
| 14 | M20          | Z         | -.751                     | -.751                    | 0                    | %100               |
| 15 | M21          | X         | 0                         | 0                        | 0                    | %100               |
| 16 | M21          | Z         | -3.004                    | -3.004                   | 0                    | %100               |
| 17 | M22          | X         | 0                         | 0                        | 0                    | %100               |
| 18 | M22          | Z         | -.734                     | -.734                    | 0                    | %100               |
| 19 | M23          | X         | 0                         | 0                        | 0                    | %100               |
| 20 | M23          | Z         | -.734                     | -.734                    | 0                    | %100               |
| 21 | M24          | X         | 0                         | 0                        | 0                    | %100               |
| 22 | M24          | Z         | -2.936                    | -2.936                   | 0                    | %100               |
| 23 | M25          | X         | 0                         | 0                        | 0                    | %100               |
| 24 | M25          | Z         | -.751                     | -.751                    | 0                    | %100               |
| 25 | M26          | X         | 0                         | 0                        | 0                    | %100               |
| 26 | M26          | Z         | -.751                     | -.751                    | 0                    | %100               |
| 27 | M27          | X         | 0                         | 0                        | 0                    | %100               |
| 28 | M27          | Z         | -3.004                    | -3.004                   | 0                    | %100               |
| 29 | M28          | X         | 0                         | 0                        | 0                    | %100               |
| 30 | M28          | Z         | -3e-6                     | -3e-6                    | 0                    | %100               |
| 31 | M29          | X         | 0                         | 0                        | 0                    | %100               |
| 32 | M29          | Z         | -1.714                    | -1.714                   | 0                    | %100               |
| 33 | M30          | X         | 0                         | 0                        | 0                    | %100               |
| 34 | M30          | Z         | -1.719                    | -1.719                   | 0                    | %100               |
| 35 | M31          | X         | 0                         | 0                        | 0                    | %100               |
| 36 | M31          | Z         | -1.714                    | -1.714                   | 0                    | %100               |
| 37 | M32          | X         | 0                         | 0                        | 0                    | %100               |
| 38 | M32          | Z         | -3e-6                     | -3e-6                    | 0                    | %100               |
| 39 | M33          | X         | 0                         | 0                        | 0                    | %100               |
| 40 | M33          | Z         | -1.719                    | -1.719                   | 0                    | %100               |
| 41 | M38          | X         | 0                         | 0                        | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | 0                         | 0                        | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | 0                         | 0                        | 0                    | %100               |
| 46 | M44          | Z         | -2.255                    | -2.255                   | 0                    | %100               |
| 47 | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48 | M45          | Z         | -2.255                    | -2.255                   | 0                    | %100               |
| 49 | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50 | M50          | Z         | -2.255                    | -2.255                   | 0                    | %100               |
| 51 | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52 | M51          | Z         | -2.255                    | -2.255                   | 0                    | %100               |
| 53 | MP5A         | X         | 0                         | 0                        | 0                    | %100               |
| 54 | MP5A         | Z         | -2.705                    | -2.705                   | 0                    | %100               |
| 55 | MP4A         | X         | 0                         | 0                        | 0                    | %100               |
| 56 | MP4A         | Z         | -2.705                    | -2.705                   | 0                    | %100               |
| 57 | MP2A         | X         | 0                         | 0                        | 0                    | %100               |
| 58 | MP2A         | Z         | -2.705                    | -2.705                   | 0                    | %100               |
| 59 | MP1A         | X         | 0                         | 0                        | 0                    | %100               |
| 60 | MP1A         | Z         | -2.705                    | -2.705                   | 0                    | %100               |
| 61 | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62 | M122A        | Z         | -4.317                    | -4.317                   | 0                    | %100               |
| 63 | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64 | M123A        | Z         | -1.079                    | -1.079                   | 0                    | %100               |
| 65 | M128         | X         | 0                         | 0                        | 0                    | %100               |
| 66 | M128         | Z         | -3e-6                     | -3e-6                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 67  | M129         | X         | 0                         | 0                        | 0                     | %100                |
| 68  | M129         | Z         | -3e-6                     | -3e-6                    | 0                     | %100                |
| 69  | M138         | X         | 0                         | 0                        | 0                     | %100                |
| 70  | M138         | Z         | -1.856                    | -1.856                   | 0                     | %100                |
| 71  | M141         | X         | 0                         | 0                        | 0                     | %100                |
| 72  | M141         | Z         | -1.861                    | -1.861                   | 0                     | %100                |
| 73  | M150         | X         | 0                         | 0                        | 0                     | %100                |
| 74  | M150         | Z         | -1.861                    | -1.861                   | 0                     | %100                |
| 75  | M153         | X         | 0                         | 0                        | 0                     | %100                |
| 76  | M153         | Z         | -1.856                    | -1.856                   | 0                     | %100                |
| 77  | M98A         | X         | 0                         | 0                        | 0                     | %100                |
| 78  | M98A         | Z         | -2.072                    | -2.072                   | 0                     | %100                |
| 79  | M99          | X         | 0                         | 0                        | 0                     | %100                |
| 80  | M99          | Z         | -2.072                    | -2.072                   | 0                     | %100                |
| 81  | MP4C         | X         | 0                         | 0                        | 0                     | %100                |
| 82  | MP4C         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 83  | MP3C         | X         | 0                         | 0                        | 0                     | %100                |
| 84  | MP3C         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 85  | MP2C         | X         | 0                         | 0                        | 0                     | %100                |
| 86  | MP2C         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 87  | MP1C         | X         | 0                         | 0                        | 0                     | %100                |
| 88  | MP1C         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 89  | MP4B         | X         | 0                         | 0                        | 0                     | %100                |
| 90  | MP4B         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 91  | MP3B         | X         | 0                         | 0                        | 0                     | %100                |
| 92  | MP3B         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 93  | MP2B         | X         | 0                         | 0                        | 0                     | %100                |
| 94  | MP2B         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 95  | MP1B         | X         | 0                         | 0                        | 0                     | %100                |
| 96  | MP1B         | Z         | -2.705                    | -2.705                   | 0                     | %100                |
| 97  | OVP          | X         | 0                         | 0                        | 0                     | %100                |
| 98  | OVP          | Z         | -2.225                    | -2.225                   | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | -2.994                    | -2.994                   | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | -.749                     | -.749                    | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | -.749                     | -.749                    | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | -.756                     | -.756                    | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | -3.026                    | -3.026                   | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | -.756                     | -.756                    | 0                     | %100                |
| 111 | M121         | X         | 0                         | 0                        | 0                     | %100                |
| 112 | M121         | Z         | -1.333                    | -1.333                   | 0                     | %100                |
| 113 | M123         | X         | 0                         | 0                        | 0                     | %100                |
| 114 | M123         | Z         | -3.127                    | -3.127                   | 0                     | %100                |
| 115 | M125A        | X         | 0                         | 0                        | 0                     | %100                |
| 116 | M125A        | Z         | -3.127                    | -3.127                   | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | .345                      | .345                     | 0                     | %100                |
| 2 | M4           | Z         | -.598                     | -.598                    | 0                     | %100                |
| 3 | M5           | X         | .378                      | .378                     | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 4  | M5           | Z         | - .654                    | - .654                   | 0                    | %100               |
| 5  | M11          | X         | .378                      | .378                     | 0                    | %100               |
| 6  | M11          | Z         | - .654                    | - .654                   | 0                    | %100               |
| 7  | M17          | X         | 1.511                     | 1.511                    | 0                    | %100               |
| 8  | M17          | Z         | -2.617                    | -2.617                   | 0                    | %100               |
| 9  | M18          | X         | 0                         | 0                        | 0                    | %100               |
| 10 | M18          | Z         | 0                         | 0                        | 0                    | %100               |
| 11 | M19          | X         | 1.126                     | 1.126                    | 0                    | %100               |
| 12 | M19          | Z         | -1.951                    | -1.951                   | 0                    | %100               |
| 13 | M20          | X         | 0                         | 0                        | 0                    | %100               |
| 14 | M20          | Z         | 0                         | 0                        | 0                    | %100               |
| 15 | M21          | X         | 1.126                     | 1.126                    | 0                    | %100               |
| 16 | M21          | Z         | -1.951                    | -1.951                   | 0                    | %100               |
| 17 | M22          | X         | 1.101                     | 1.101                    | 0                    | %100               |
| 18 | M22          | Z         | -1.907                    | -1.907                   | 0                    | %100               |
| 19 | M23          | X         | 0                         | 0                        | 0                    | %100               |
| 20 | M23          | Z         | 0                         | 0                        | 0                    | %100               |
| 21 | M24          | X         | 1.101                     | 1.101                    | 0                    | %100               |
| 22 | M24          | Z         | -1.907                    | -1.907                   | 0                    | %100               |
| 23 | M25          | X         | 1.126                     | 1.126                    | 0                    | %100               |
| 24 | M25          | Z         | -1.951                    | -1.951                   | 0                    | %100               |
| 25 | M26          | X         | 0                         | 0                        | 0                    | %100               |
| 26 | M26          | Z         | 0                         | 0                        | 0                    | %100               |
| 27 | M27          | X         | 1.126                     | 1.126                    | 0                    | %100               |
| 28 | M27          | Z         | -1.951                    | -1.951                   | 0                    | %100               |
| 29 | M28          | X         | .287                      | .287                     | 0                    | %100               |
| 30 | M28          | Z         | - .497                    | - .497                   | 0                    | %100               |
| 31 | M29          | X         | .285                      | .285                     | 0                    | %100               |
| 32 | M29          | Z         | - .494                    | - .494                   | 0                    | %100               |
| 33 | M30          | X         | 1.144                     | 1.144                    | 0                    | %100               |
| 34 | M30          | Z         | -1.982                    | -1.982                   | 0                    | %100               |
| 35 | M31          | X         | 1.144                     | 1.144                    | 0                    | %100               |
| 36 | M31          | Z         | -1.982                    | -1.982                   | 0                    | %100               |
| 37 | M32          | X         | .285                      | .285                     | 0                    | %100               |
| 38 | M32          | Z         | - .494                    | - .494                   | 0                    | %100               |
| 39 | M33          | X         | .287                      | .287                     | 0                    | %100               |
| 40 | M33          | Z         | - .497                    | - .497                   | 0                    | %100               |
| 41 | M38          | X         | .376                      | .376                     | 0                    | %100               |
| 42 | M38          | Z         | - .651                    | - .651                   | 0                    | %100               |
| 43 | M39          | X         | .376                      | .376                     | 0                    | %100               |
| 44 | M39          | Z         | - .651                    | - .651                   | 0                    | %100               |
| 45 | M44          | X         | .376                      | .376                     | 0                    | %100               |
| 46 | M44          | Z         | - .651                    | - .651                   | 0                    | %100               |
| 47 | M45          | X         | .376                      | .376                     | 0                    | %100               |
| 48 | M45          | Z         | - .651                    | - .651                   | 0                    | %100               |
| 49 | M50          | X         | 1.503                     | 1.503                    | 0                    | %100               |
| 50 | M50          | Z         | -2.604                    | -2.604                   | 0                    | %100               |
| 51 | M51          | X         | 1.503                     | 1.503                    | 0                    | %100               |
| 52 | M51          | Z         | -2.604                    | -2.604                   | 0                    | %100               |
| 53 | MP5A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 54 | MP5A         | Z         | -2.342                    | -2.342                   | 0                    | %100               |
| 55 | MP4A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 56 | MP4A         | Z         | -2.342                    | -2.342                   | 0                    | %100               |
| 57 | MP2A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 58 | MP2A         | Z         | -2.342                    | -2.342                   | 0                    | %100               |
| 59 | MP1A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 60 | MP1A         | Z         | -2.342                    | -2.342                   | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 61  | M122A        | X         | 1.619                     | 1.619                    | 0                     | %100                |
| 62  | M122A        | Z         | -2.804                    | -2.804                   | 0                     | %100                |
| 63  | M123A        | X         | 1.619                     | 1.619                    | 0                     | %100                |
| 64  | M123A        | Z         | -2.804                    | -2.804                   | 0                     | %100                |
| 65  | M128         | X         | .311                      | .311                     | 0                     | %100                |
| 66  | M128         | Z         | -.539                     | -.539                    | 0                     | %100                |
| 67  | M129         | X         | .309                      | .309                     | 0                     | %100                |
| 68  | M129         | Z         | -.534                     | -.534                    | 0                     | %100                |
| 69  | M138         | X         | .309                      | .309                     | 0                     | %100                |
| 70  | M138         | Z         | -.534                     | -.534                    | 0                     | %100                |
| 71  | M141         | X         | .311                      | .311                     | 0                     | %100                |
| 72  | M141         | Z         | -.539                     | -.539                    | 0                     | %100                |
| 73  | M150         | X         | 1.239                     | 1.239                    | 0                     | %100                |
| 74  | M150         | Z         | -2.146                    | -2.146                   | 0                     | %100                |
| 75  | M153         | X         | 1.239                     | 1.239                    | 0                     | %100                |
| 76  | M153         | Z         | -2.146                    | -2.146                   | 0                     | %100                |
| 77  | M98A         | X         | .345                      | .345                     | 0                     | %100                |
| 78  | M98A         | Z         | -.598                     | -.598                    | 0                     | %100                |
| 79  | M99          | X         | 1.381                     | 1.381                    | 0                     | %100                |
| 80  | M99          | Z         | -2.392                    | -2.392                   | 0                     | %100                |
| 81  | MP4C         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 82  | MP4C         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 83  | MP3C         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 84  | MP3C         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 85  | MP2C         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 86  | MP2C         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 87  | MP1C         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 88  | MP1C         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 89  | MP4B         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 90  | MP4B         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 91  | MP3B         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 92  | MP3B         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 93  | MP2B         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 94  | MP2B         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 95  | MP1B         | X         | 1.352                     | 1.352                    | 0                     | %100                |
| 96  | MP1B         | Z         | -2.342                    | -2.342                   | 0                     | %100                |
| 97  | OVP          | X         | 1.112                     | 1.112                    | 0                     | %100                |
| 98  | OVP          | Z         | -1.927                    | -1.927                   | 0                     | %100                |
| 99  | M100         | X         | 1.123                     | 1.123                    | 0                     | %100                |
| 100 | M100         | Z         | -1.945                    | -1.945                   | 0                     | %100                |
| 101 | M107         | X         | 1.123                     | 1.123                    | 0                     | %100                |
| 102 | M107         | Z         | -1.945                    | -1.945                   | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | 1.135                     | 1.135                    | 0                     | %100                |
| 106 | M117         | Z         | -1.965                    | -1.965                   | 0                     | %100                |
| 107 | M118         | X         | 1.135                     | 1.135                    | 0                     | %100                |
| 108 | M118         | Z         | -1.965                    | -1.965                   | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | .966                      | .966                     | 0                     | %100                |
| 112 | M121         | Z         | -1.672                    | -1.672                   | 0                     | %100                |
| 113 | M123         | X         | .966                      | .966                     | 0                     | %100                |
| 114 | M123         | Z         | -1.672                    | -1.672                   | 0                     | %100                |
| 115 | M125A        | X         | 1.862                     | 1.862                    | 0                     | %100                |
| 116 | M125A        | Z         | -3.226                    | -3.226                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 1.794                     | 1.794                    | 0                     | %100                |
| 2  | M4           | Z         | -1.036                    | -1.036                   | 0                     | %100                |
| 3  | M5           | X         | 1.963                     | 1.963                    | 0                     | %100                |
| 4  | M5           | Z         | -1.133                    | -1.133                   | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | 1.963                     | 1.963                    | 0                     | %100                |
| 8  | M17          | Z         | -1.133                    | -1.133                   | 0                     | %100                |
| 9  | M18          | X         | .935                      | .935                     | 0                     | %100                |
| 10 | M18          | Z         | -.54                      | -.54                     | 0                     | %100                |
| 11 | M19          | X         | 2.601                     | 2.601                    | 0                     | %100                |
| 12 | M19          | Z         | -1.502                    | -1.502                   | 0                     | %100                |
| 13 | M20          | X         | .65                       | .65                      | 0                     | %100                |
| 14 | M20          | Z         | -.375                     | -.375                    | 0                     | %100                |
| 15 | M21          | X         | .65                       | .65                      | 0                     | %100                |
| 16 | M21          | Z         | -.375                     | -.375                    | 0                     | %100                |
| 17 | M22          | X         | 2.542                     | 2.542                    | 0                     | %100                |
| 18 | M22          | Z         | -1.468                    | -1.468                   | 0                     | %100                |
| 19 | M23          | X         | .636                      | .636                     | 0                     | %100                |
| 20 | M23          | Z         | -.367                     | -.367                    | 0                     | %100                |
| 21 | M24          | X         | .636                      | .636                     | 0                     | %100                |
| 22 | M24          | Z         | -.367                     | -.367                    | 0                     | %100                |
| 23 | M25          | X         | 2.601                     | 2.601                    | 0                     | %100                |
| 24 | M25          | Z         | -1.502                    | -1.502                   | 0                     | %100                |
| 25 | M26          | X         | .65                       | .65                      | 0                     | %100                |
| 26 | M26          | Z         | -.375                     | -.375                    | 0                     | %100                |
| 27 | M27          | X         | .65                       | .65                      | 0                     | %100                |
| 28 | M27          | Z         | -.375                     | -.375                    | 0                     | %100                |
| 29 | M28          | X         | 1.488                     | 1.488                    | 0                     | %100                |
| 30 | M28          | Z         | -.859                     | -.859                    | 0                     | %100                |
| 31 | M29          | X         | 2e-6                      | 2e-6                     | 0                     | %100                |
| 32 | M29          | Z         | -1e-6                     | -1e-6                    | 0                     | %100                |
| 33 | M30          | X         | 1.484                     | 1.484                    | 0                     | %100                |
| 34 | M30          | Z         | -.857                     | -.857                    | 0                     | %100                |
| 35 | M31          | X         | 1.488                     | 1.488                    | 0                     | %100                |
| 36 | M31          | Z         | -.859                     | -.859                    | 0                     | %100                |
| 37 | M32          | X         | 1.484                     | 1.484                    | 0                     | %100                |
| 38 | M32          | Z         | -.857                     | -.857                    | 0                     | %100                |
| 39 | M33          | X         | 2e-6                      | 2e-6                     | 0                     | %100                |
| 40 | M33          | Z         | -1e-6                     | -1e-6                    | 0                     | %100                |
| 41 | M38          | X         | 1.953                     | 1.953                    | 0                     | %100                |
| 42 | M38          | Z         | -1.127                    | -1.127                   | 0                     | %100                |
| 43 | M39          | X         | 1.953                     | 1.953                    | 0                     | %100                |
| 44 | M39          | Z         | -1.127                    | -1.127                   | 0                     | %100                |
| 45 | M44          | X         | 0                         | 0                        | 0                     | %100                |
| 46 | M44          | Z         | 0                         | 0                        | 0                     | %100                |
| 47 | M45          | X         | 0                         | 0                        | 0                     | %100                |
| 48 | M45          | Z         | 0                         | 0                        | 0                     | %100                |
| 49 | M50          | X         | 1.953                     | 1.953                    | 0                     | %100                |
| 50 | M50          | Z         | -1.127                    | -1.127                   | 0                     | %100                |
| 51 | M51          | X         | 1.953                     | 1.953                    | 0                     | %100                |
| 52 | M51          | Z         | -1.127                    | -1.127                   | 0                     | %100                |
| 53 | MP5A         | X         | 2.342                     | 2.342                    | 0                     | %100                |
| 54 | MP5A         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 55 | MP4A         | X         | 2.342                     | 2.342                    | 0                     | %100                |
| 56 | MP4A         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 57 | MP2A         | X         | 2.342                     | 2.342                    | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 58  | MP2A         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 59  | MP1A         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 60  | MP1A         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 61  | M122A        | X         | .935                      | .935                     | 0                    | %100               |
| 62  | M122A        | Z         | -.54                      | -.54                     | 0                    | %100               |
| 63  | M123A        | X         | 3.739                     | 3.739                    | 0                    | %100               |
| 64  | M123A        | Z         | -2.159                    | -2.159                   | 0                    | %100               |
| 65  | M128         | X         | 1.612                     | 1.612                    | 0                    | %100               |
| 66  | M128         | Z         | -.931                     | -.931                    | 0                    | %100               |
| 67  | M129         | X         | 1.608                     | 1.608                    | 0                    | %100               |
| 68  | M129         | Z         | -.928                     | -.928                    | 0                    | %100               |
| 69  | M138         | X         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 70  | M138         | Z         | -2e-6                     | -2e-6                    | 0                    | %100               |
| 71  | M141         | X         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 72  | M141         | Z         | -2e-6                     | -2e-6                    | 0                    | %100               |
| 73  | M150         | X         | 1.608                     | 1.608                    | 0                    | %100               |
| 74  | M150         | Z         | -.928                     | -.928                    | 0                    | %100               |
| 75  | M153         | X         | 1.612                     | 1.612                    | 0                    | %100               |
| 76  | M153         | Z         | -.931                     | -.931                    | 0                    | %100               |
| 77  | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78  | M98A         | Z         | 0                         | 0                        | 0                    | %100               |
| 79  | M99          | X         | 1.794                     | 1.794                    | 0                    | %100               |
| 80  | M99          | Z         | -1.036                    | -1.036                   | 0                    | %100               |
| 81  | MP4C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 82  | MP4C         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 83  | MP3C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 84  | MP3C         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 85  | MP2C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 86  | MP2C         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 87  | MP1C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 88  | MP1C         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 89  | MP4B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 90  | MP4B         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 91  | MP3B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 92  | MP3B         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 93  | MP2B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 94  | MP2B         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 95  | MP1B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 96  | MP1B         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 97  | OVP          | X         | 1.927                     | 1.927                    | 0                    | %100               |
| 98  | OVP          | Z         | -1.112                    | -1.112                   | 0                    | %100               |
| 99  | M100         | X         | .648                      | .648                     | 0                    | %100               |
| 100 | M100         | Z         | -.374                     | -.374                    | 0                    | %100               |
| 101 | M107         | X         | 2.593                     | 2.593                    | 0                    | %100               |
| 102 | M107         | Z         | -1.497                    | -1.497                   | 0                    | %100               |
| 103 | M114         | X         | .648                      | .648                     | 0                    | %100               |
| 104 | M114         | Z         | -.374                     | -.374                    | 0                    | %100               |
| 105 | M117         | X         | 2.62                      | 2.62                     | 0                    | %100               |
| 106 | M117         | Z         | -1.513                    | -1.513                   | 0                    | %100               |
| 107 | M118         | X         | .655                      | .655                     | 0                    | %100               |
| 108 | M118         | Z         | -.378                     | -.378                    | 0                    | %100               |
| 109 | M119         | X         | .655                      | .655                     | 0                    | %100               |
| 110 | M119         | Z         | -.378                     | -.378                    | 0                    | %100               |
| 111 | M121         | X         | 2.708                     | 2.708                    | 0                    | %100               |
| 112 | M121         | Z         | -1.563                    | -1.563                   | 0                    | %100               |
| 113 | M123         | X         | 1.155                     | 1.155                    | 0                    | %100               |
| 114 | M123         | Z         | -.667                     | -.667                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 115 | M125A        | X         | 2.708                     | 2.708                    | 0                     | %100                |
| 116 | M125A        | Z         | -1.563                    | -1.563                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 2.763                     | 2.763                    | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | 3.022                     | 3.022                    | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | .755                      | .755                     | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | .755                      | .755                     | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | 3.238                     | 3.238                    | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | 0                         | 0                        | 0                     | %100                |
| 17 | M22          | X         | 2.202                     | 2.202                    | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | 2.202                     | 2.202                    | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | 0                         | 0                        | 0                     | %100                |
| 23 | M25          | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | 2.253                     | 2.253                    | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | 0                         | 0                        | 0                     | %100                |
| 29 | M28          | X         | 2.288                     | 2.288                    | 0                     | %100                |
| 30 | M28          | Z         | 0                         | 0                        | 0                     | %100                |
| 31 | M29          | X         | .574                      | .574                     | 0                     | %100                |
| 32 | M29          | Z         | 0                         | 0                        | 0                     | %100                |
| 33 | M30          | X         | .57                       | .57                      | 0                     | %100                |
| 34 | M30          | Z         | 0                         | 0                        | 0                     | %100                |
| 35 | M31          | X         | .574                      | .574                     | 0                     | %100                |
| 36 | M31          | Z         | 0                         | 0                        | 0                     | %100                |
| 37 | M32          | X         | 2.288                     | 2.288                    | 0                     | %100                |
| 38 | M32          | Z         | 0                         | 0                        | 0                     | %100                |
| 39 | M33          | X         | .57                       | .57                      | 0                     | %100                |
| 40 | M33          | Z         | 0                         | 0                        | 0                     | %100                |
| 41 | M38          | X         | 3.006                     | 3.006                    | 0                     | %100                |
| 42 | M38          | Z         | 0                         | 0                        | 0                     | %100                |
| 43 | M39          | X         | 3.006                     | 3.006                    | 0                     | %100                |
| 44 | M39          | Z         | 0                         | 0                        | 0                     | %100                |
| 45 | M44          | X         | .752                      | .752                     | 0                     | %100                |
| 46 | M44          | Z         | 0                         | 0                        | 0                     | %100                |
| 47 | M45          | X         | .752                      | .752                     | 0                     | %100                |
| 48 | M45          | Z         | 0                         | 0                        | 0                     | %100                |
| 49 | M50          | X         | .752                      | .752                     | 0                     | %100                |
| 50 | M50          | Z         | 0                         | 0                        | 0                     | %100                |
| 51 | M51          | X         | .752                      | .752                     | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 52  | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53  | MP5A         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 54  | MP5A         | Z         | 0                         | 0                        | 0                    | %100               |
| 55  | MP4A         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 56  | MP4A         | Z         | 0                         | 0                        | 0                    | %100               |
| 57  | MP2A         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 58  | MP2A         | Z         | 0                         | 0                        | 0                    | %100               |
| 59  | MP1A         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 60  | MP1A         | Z         | 0                         | 0                        | 0                    | %100               |
| 61  | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62  | M122A        | Z         | 0                         | 0                        | 0                    | %100               |
| 63  | M123A        | X         | 3.238                     | 3.238                    | 0                    | %100               |
| 64  | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65  | M128         | X         | 2.478                     | 2.478                    | 0                    | %100               |
| 66  | M128         | Z         | 0                         | 0                        | 0                    | %100               |
| 67  | M129         | X         | 2.478                     | 2.478                    | 0                    | %100               |
| 68  | M129         | Z         | 0                         | 0                        | 0                    | %100               |
| 69  | M138         | X         | .622                      | .622                     | 0                    | %100               |
| 70  | M138         | Z         | 0                         | 0                        | 0                    | %100               |
| 71  | M141         | X         | .617                      | .617                     | 0                    | %100               |
| 72  | M141         | Z         | 0                         | 0                        | 0                    | %100               |
| 73  | M150         | X         | .617                      | .617                     | 0                    | %100               |
| 74  | M150         | Z         | 0                         | 0                        | 0                    | %100               |
| 75  | M153         | X         | .622                      | .622                     | 0                    | %100               |
| 76  | M153         | Z         | 0                         | 0                        | 0                    | %100               |
| 77  | M98A         | X         | .691                      | .691                     | 0                    | %100               |
| 78  | M98A         | Z         | 0                         | 0                        | 0                    | %100               |
| 79  | M99          | X         | .691                      | .691                     | 0                    | %100               |
| 80  | M99          | Z         | 0                         | 0                        | 0                    | %100               |
| 81  | MP4C         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 82  | MP4C         | Z         | 0                         | 0                        | 0                    | %100               |
| 83  | MP3C         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 84  | MP3C         | Z         | 0                         | 0                        | 0                    | %100               |
| 85  | MP2C         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 86  | MP2C         | Z         | 0                         | 0                        | 0                    | %100               |
| 87  | MP1C         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 88  | MP1C         | Z         | 0                         | 0                        | 0                    | %100               |
| 89  | MP4B         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 90  | MP4B         | Z         | 0                         | 0                        | 0                    | %100               |
| 91  | MP3B         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 92  | MP3B         | Z         | 0                         | 0                        | 0                    | %100               |
| 93  | MP2B         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 94  | MP2B         | Z         | 0                         | 0                        | 0                    | %100               |
| 95  | MP1B         | X         | 2.705                     | 2.705                    | 0                    | %100               |
| 96  | MP1B         | Z         | 0                         | 0                        | 0                    | %100               |
| 97  | OVP          | X         | 2.225                     | 2.225                    | 0                    | %100               |
| 98  | OVP          | Z         | 0                         | 0                        | 0                    | %100               |
| 99  | M100         | X         | 0                         | 0                        | 0                    | %100               |
| 100 | M100         | Z         | 0                         | 0                        | 0                    | %100               |
| 101 | M107         | X         | 2.246                     | 2.246                    | 0                    | %100               |
| 102 | M107         | Z         | 0                         | 0                        | 0                    | %100               |
| 103 | M114         | X         | 2.246                     | 2.246                    | 0                    | %100               |
| 104 | M114         | Z         | 0                         | 0                        | 0                    | %100               |
| 105 | M117         | X         | 2.269                     | 2.269                    | 0                    | %100               |
| 106 | M117         | Z         | 0                         | 0                        | 0                    | %100               |
| 107 | M118         | X         | 0                         | 0                        | 0                    | %100               |
| 108 | M118         | Z         | 0                         | 0                        | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 109 | M119         | X         | 2.269                     | 2.269                    | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | 3.725                     | 3.725                    | 0                     | %100                |
| 112 | M121         | Z         | 0                         | 0                        | 0                     | %100                |
| 113 | M123         | X         | 1.931                     | 1.931                    | 0                     | %100                |
| 114 | M123         | Z         | 0                         | 0                        | 0                     | %100                |
| 115 | M125A        | X         | 1.931                     | 1.931                    | 0                     | %100                |
| 116 | M125A        | Z         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 1.794                     | 1.794                    | 0                     | %100                |
| 2  | M4           | Z         | 1.036                     | 1.036                    | 0                     | %100                |
| 3  | M5           | X         | 1.963                     | 1.963                    | 0                     | %100                |
| 4  | M5           | Z         | 1.133                     | 1.133                    | 0                     | %100                |
| 5  | M11          | X         | 1.963                     | 1.963                    | 0                     | %100                |
| 6  | M11          | Z         | 1.133                     | 1.133                    | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | 3.739                     | 3.739                    | 0                     | %100                |
| 10 | M18          | Z         | 2.159                     | 2.159                    | 0                     | %100                |
| 11 | M19          | X         | .65                       | .65                      | 0                     | %100                |
| 12 | M19          | Z         | .375                      | .375                     | 0                     | %100                |
| 13 | M20          | X         | 2.601                     | 2.601                    | 0                     | %100                |
| 14 | M20          | Z         | 1.502                     | 1.502                    | 0                     | %100                |
| 15 | M21          | X         | .65                       | .65                      | 0                     | %100                |
| 16 | M21          | Z         | .375                      | .375                     | 0                     | %100                |
| 17 | M22          | X         | .636                      | .636                     | 0                     | %100                |
| 18 | M22          | Z         | .367                      | .367                     | 0                     | %100                |
| 19 | M23          | X         | 2.542                     | 2.542                    | 0                     | %100                |
| 20 | M23          | Z         | 1.468                     | 1.468                    | 0                     | %100                |
| 21 | M24          | X         | .636                      | .636                     | 0                     | %100                |
| 22 | M24          | Z         | .367                      | .367                     | 0                     | %100                |
| 23 | M25          | X         | .65                       | .65                      | 0                     | %100                |
| 24 | M25          | Z         | .375                      | .375                     | 0                     | %100                |
| 25 | M26          | X         | 2.601                     | 2.601                    | 0                     | %100                |
| 26 | M26          | Z         | 1.502                     | 1.502                    | 0                     | %100                |
| 27 | M27          | X         | .65                       | .65                      | 0                     | %100                |
| 28 | M27          | Z         | .375                      | .375                     | 0                     | %100                |
| 29 | M28          | X         | 1.484                     | 1.484                    | 0                     | %100                |
| 30 | M28          | Z         | .857                      | .857                     | 0                     | %100                |
| 31 | M29          | X         | 1.488                     | 1.488                    | 0                     | %100                |
| 32 | M29          | Z         | .859                      | .859                     | 0                     | %100                |
| 33 | M30          | X         | 2e-6                      | 2e-6                     | 0                     | %100                |
| 34 | M30          | Z         | 1e-6                      | 1e-6                     | 0                     | %100                |
| 35 | M31          | X         | 2e-6                      | 2e-6                     | 0                     | %100                |
| 36 | M31          | Z         | 1e-6                      | 1e-6                     | 0                     | %100                |
| 37 | M32          | X         | 1.488                     | 1.488                    | 0                     | %100                |
| 38 | M32          | Z         | .859                      | .859                     | 0                     | %100                |
| 39 | M33          | X         | 1.484                     | 1.484                    | 0                     | %100                |
| 40 | M33          | Z         | .857                      | .857                     | 0                     | %100                |
| 41 | M38          | X         | 1.953                     | 1.953                    | 0                     | %100                |
| 42 | M38          | Z         | 1.127                     | 1.127                    | 0                     | %100                |
| 43 | M39          | X         | 1.953                     | 1.953                    | 0                     | %100                |
| 44 | M39          | Z         | 1.127                     | 1.127                    | 0                     | %100                |
| 45 | M44          | X         | 1.953                     | 1.953                    | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 46  | M44          | Z         | 1.127                     | 1.127                    | 0                    | %100               |
| 47  | M45          | X         | 1.953                     | 1.953                    | 0                    | %100               |
| 48  | M45          | Z         | 1.127                     | 1.127                    | 0                    | %100               |
| 49  | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50  | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51  | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52  | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53  | MP5A         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 54  | MP5A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 55  | MP4A         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 56  | MP4A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 57  | MP2A         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 58  | MP2A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 59  | MP1A         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 60  | MP1A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 61  | M122A        | X         | .935                      | .935                     | 0                    | %100               |
| 62  | M122A        | Z         | .54                       | .54                      | 0                    | %100               |
| 63  | M123A        | X         | .935                      | .935                     | 0                    | %100               |
| 64  | M123A        | Z         | .54                       | .54                      | 0                    | %100               |
| 65  | M128         | X         | 1.608                     | 1.608                    | 0                    | %100               |
| 66  | M128         | Z         | .928                      | .928                     | 0                    | %100               |
| 67  | M129         | X         | 1.612                     | 1.612                    | 0                    | %100               |
| 68  | M129         | Z         | .931                      | .931                     | 0                    | %100               |
| 69  | M138         | X         | 1.612                     | 1.612                    | 0                    | %100               |
| 70  | M138         | Z         | .931                      | .931                     | 0                    | %100               |
| 71  | M141         | X         | 1.608                     | 1.608                    | 0                    | %100               |
| 72  | M141         | Z         | .928                      | .928                     | 0                    | %100               |
| 73  | M150         | X         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 74  | M150         | Z         | 2e-6                      | 2e-6                     | 0                    | %100               |
| 75  | M153         | X         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 76  | M153         | Z         | 2e-6                      | 2e-6                     | 0                    | %100               |
| 77  | M98A         | X         | 1.794                     | 1.794                    | 0                    | %100               |
| 78  | M98A         | Z         | 1.036                     | 1.036                    | 0                    | %100               |
| 79  | M99          | X         | 0                         | 0                        | 0                    | %100               |
| 80  | M99          | Z         | 0                         | 0                        | 0                    | %100               |
| 81  | MP4C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 82  | MP4C         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 83  | MP3C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 84  | MP3C         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 85  | MP2C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 86  | MP2C         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 87  | MP1C         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 88  | MP1C         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 89  | MP4B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 90  | MP4B         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 91  | MP3B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 92  | MP3B         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 93  | MP2B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 94  | MP2B         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 95  | MP1B         | X         | 2.342                     | 2.342                    | 0                    | %100               |
| 96  | MP1B         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 97  | OVP          | X         | 1.927                     | 1.927                    | 0                    | %100               |
| 98  | OVP          | Z         | 1.112                     | 1.112                    | 0                    | %100               |
| 99  | M100         | X         | .648                      | .648                     | 0                    | %100               |
| 100 | M100         | Z         | .374                      | .374                     | 0                    | %100               |
| 101 | M107         | X         | .648                      | .648                     | 0                    | %100               |
| 102 | M107         | Z         | .374                      | .374                     | 0                    | %100               |



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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 103 | M114         | X         | 2.593                     | 2.593                    | 0                     | %100                |
| 104 | M114         | Z         | 1.497                     | 1.497                    | 0                     | %100                |
| 105 | M117         | X         | .655                      | .655                     | 0                     | %100                |
| 106 | M117         | Z         | .378                      | .378                     | 0                     | %100                |
| 107 | M118         | X         | .655                      | .655                     | 0                     | %100                |
| 108 | M118         | Z         | .378                      | .378                     | 0                     | %100                |
| 109 | M119         | X         | 2.62                      | 2.62                     | 0                     | %100                |
| 110 | M119         | Z         | 1.513                     | 1.513                    | 0                     | %100                |
| 111 | M121         | X         | 2.708                     | 2.708                    | 0                     | %100                |
| 112 | M121         | Z         | 1.563                     | 1.563                    | 0                     | %100                |
| 113 | M123         | X         | 2.708                     | 2.708                    | 0                     | %100                |
| 114 | M123         | Z         | 1.563                     | 1.563                    | 0                     | %100                |
| 115 | M125A        | X         | 1.155                     | 1.155                    | 0                     | %100                |
| 116 | M125A        | Z         | .667                      | .667                     | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | .345                      | .345                     | 0                     | %100                |
| 2  | M4           | Z         | .598                      | .598                     | 0                     | %100                |
| 3  | M5           | X         | .378                      | .378                     | 0                     | %100                |
| 4  | M5           | Z         | .654                      | .654                     | 0                     | %100                |
| 5  | M11          | X         | 1.511                     | 1.511                    | 0                     | %100                |
| 6  | M11          | Z         | 2.617                     | 2.617                    | 0                     | %100                |
| 7  | M17          | X         | .378                      | .378                     | 0                     | %100                |
| 8  | M17          | Z         | .654                      | .654                     | 0                     | %100                |
| 9  | M18          | X         | 1.619                     | 1.619                    | 0                     | %100                |
| 10 | M18          | Z         | 2.804                     | 2.804                    | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | 1.126                     | 1.126                    | 0                     | %100                |
| 14 | M20          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 15 | M21          | X         | 1.126                     | 1.126                    | 0                     | %100                |
| 16 | M21          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | 1.101                     | 1.101                    | 0                     | %100                |
| 20 | M23          | Z         | 1.907                     | 1.907                    | 0                     | %100                |
| 21 | M24          | X         | 1.101                     | 1.101                    | 0                     | %100                |
| 22 | M24          | Z         | 1.907                     | 1.907                    | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | 1.126                     | 1.126                    | 0                     | %100                |
| 26 | M26          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 27 | M27          | X         | 1.126                     | 1.126                    | 0                     | %100                |
| 28 | M27          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 29 | M28          | X         | .285                      | .285                     | 0                     | %100                |
| 30 | M28          | Z         | .494                      | .494                     | 0                     | %100                |
| 31 | M29          | X         | 1.144                     | 1.144                    | 0                     | %100                |
| 32 | M29          | Z         | 1.982                     | 1.982                    | 0                     | %100                |
| 33 | M30          | X         | .287                      | .287                     | 0                     | %100                |
| 34 | M30          | Z         | .497                      | .497                     | 0                     | %100                |
| 35 | M31          | X         | .285                      | .285                     | 0                     | %100                |
| 36 | M31          | Z         | .494                      | .494                     | 0                     | %100                |
| 37 | M32          | X         | .287                      | .287                     | 0                     | %100                |
| 38 | M32          | Z         | .497                      | .497                     | 0                     | %100                |
| 39 | M33          | X         | 1.144                     | 1.144                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 40 | M33          | Z         | 1.982                     | 1.982                    | 0                    | %100               |
| 41 | M38          | X         | .376                      | .376                     | 0                    | %100               |
| 42 | M38          | Z         | .651                      | .651                     | 0                    | %100               |
| 43 | M39          | X         | .376                      | .376                     | 0                    | %100               |
| 44 | M39          | Z         | .651                      | .651                     | 0                    | %100               |
| 45 | M44          | X         | 1.503                     | 1.503                    | 0                    | %100               |
| 46 | M44          | Z         | 2.604                     | 2.604                    | 0                    | %100               |
| 47 | M45          | X         | 1.503                     | 1.503                    | 0                    | %100               |
| 48 | M45          | Z         | 2.604                     | 2.604                    | 0                    | %100               |
| 49 | M50          | X         | .376                      | .376                     | 0                    | %100               |
| 50 | M50          | Z         | .651                      | .651                     | 0                    | %100               |
| 51 | M51          | X         | .376                      | .376                     | 0                    | %100               |
| 52 | M51          | Z         | .651                      | .651                     | 0                    | %100               |
| 53 | MP5A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 54 | MP5A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 55 | MP4A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 56 | MP4A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 57 | MP2A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 58 | MP2A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 59 | MP1A         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 60 | MP1A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 61 | M122A        | X         | 1.619                     | 1.619                    | 0                    | %100               |
| 62 | M122A        | Z         | 2.804                     | 2.804                    | 0                    | %100               |
| 63 | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64 | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65 | M128         | X         | .309                      | .309                     | 0                    | %100               |
| 66 | M128         | Z         | .534                      | .534                     | 0                    | %100               |
| 67 | M129         | X         | .311                      | .311                     | 0                    | %100               |
| 68 | M129         | Z         | .539                      | .539                     | 0                    | %100               |
| 69 | M138         | X         | 1.239                     | 1.239                    | 0                    | %100               |
| 70 | M138         | Z         | 2.146                     | 2.146                    | 0                    | %100               |
| 71 | M141         | X         | 1.239                     | 1.239                    | 0                    | %100               |
| 72 | M141         | Z         | 2.146                     | 2.146                    | 0                    | %100               |
| 73 | M150         | X         | .311                      | .311                     | 0                    | %100               |
| 74 | M150         | Z         | .539                      | .539                     | 0                    | %100               |
| 75 | M153         | X         | .309                      | .309                     | 0                    | %100               |
| 76 | M153         | Z         | .534                      | .534                     | 0                    | %100               |
| 77 | M98A         | X         | 1.381                     | 1.381                    | 0                    | %100               |
| 78 | M98A         | Z         | 2.392                     | 2.392                    | 0                    | %100               |
| 79 | M99          | X         | .345                      | .345                     | 0                    | %100               |
| 80 | M99          | Z         | .598                      | .598                     | 0                    | %100               |
| 81 | MP4C         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 82 | MP4C         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 83 | MP3C         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 84 | MP3C         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 85 | MP2C         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 86 | MP2C         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 87 | MP1C         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 88 | MP1C         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 89 | MP4B         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 90 | MP4B         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 91 | MP3B         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 92 | MP3B         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 93 | MP2B         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 94 | MP2B         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 95 | MP1B         | X         | 1.352                     | 1.352                    | 0                    | %100               |
| 96 | MP1B         | Z         | 2.342                     | 2.342                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 97  | OVP          | X         | 1.112                     | 1.112                    | 0                     | %100                |
| 98  | OVP          | Z         | 1.927                     | 1.927                    | 0                     | %100                |
| 99  | M100         | X         | 1.123                     | 1.123                    | 0                     | %100                |
| 100 | M100         | Z         | 1.945                     | 1.945                    | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | 1.123                     | 1.123                    | 0                     | %100                |
| 104 | M114         | Z         | 1.945                     | 1.945                    | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | 1.135                     | 1.135                    | 0                     | %100                |
| 108 | M118         | Z         | 1.965                     | 1.965                    | 0                     | %100                |
| 109 | M119         | X         | 1.135                     | 1.135                    | 0                     | %100                |
| 110 | M119         | Z         | 1.965                     | 1.965                    | 0                     | %100                |
| 111 | M121         | X         | .966                      | .966                     | 0                     | %100                |
| 112 | M121         | Z         | 1.672                     | 1.672                    | 0                     | %100                |
| 113 | M123         | X         | 1.862                     | 1.862                    | 0                     | %100                |
| 114 | M123         | Z         | 3.226                     | 3.226                    | 0                     | %100                |
| 115 | M125A        | X         | .966                      | .966                     | 0                     | %100                |
| 116 | M125A        | Z         | 1.672                     | 1.672                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 0                         | 0                        | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | 0                         | 0                        | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 2.266                     | 2.266                    | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 2.266                     | 2.266                    | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 1.079                     | 1.079                    | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | .751                      | .751                     | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | .751                      | .751                     | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | 3.004                     | 3.004                    | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | .734                      | .734                     | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | .734                      | .734                     | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | 2.936                     | 2.936                    | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | .751                      | .751                     | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | .751                      | .751                     | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | 3.004                     | 3.004                    | 0                     | %100                |
| 29 | M28          | X         | 0                         | 0                        | 0                     | %100                |
| 30 | M28          | Z         | 3e-6                      | 3e-6                     | 0                     | %100                |
| 31 | M29          | X         | 0                         | 0                        | 0                     | %100                |
| 32 | M29          | Z         | 1.714                     | 1.714                    | 0                     | %100                |
| 33 | M30          | X         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 34 | M30          | Z         | 1.719                     | 1.719                    | 0                    | %100               |
| 35 | M31          | X         | 0                         | 0                        | 0                    | %100               |
| 36 | M31          | Z         | 1.714                     | 1.714                    | 0                    | %100               |
| 37 | M32          | X         | 0                         | 0                        | 0                    | %100               |
| 38 | M32          | Z         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 39 | M33          | X         | 0                         | 0                        | 0                    | %100               |
| 40 | M33          | Z         | 1.719                     | 1.719                    | 0                    | %100               |
| 41 | M38          | X         | 0                         | 0                        | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | 0                         | 0                        | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | 0                         | 0                        | 0                    | %100               |
| 46 | M44          | Z         | 2.255                     | 2.255                    | 0                    | %100               |
| 47 | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48 | M45          | Z         | 2.255                     | 2.255                    | 0                    | %100               |
| 49 | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50 | M50          | Z         | 2.255                     | 2.255                    | 0                    | %100               |
| 51 | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52 | M51          | Z         | 2.255                     | 2.255                    | 0                    | %100               |
| 53 | MP5A         | X         | 0                         | 0                        | 0                    | %100               |
| 54 | MP5A         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 55 | MP4A         | X         | 0                         | 0                        | 0                    | %100               |
| 56 | MP4A         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 57 | MP2A         | X         | 0                         | 0                        | 0                    | %100               |
| 58 | MP2A         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 59 | MP1A         | X         | 0                         | 0                        | 0                    | %100               |
| 60 | MP1A         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 61 | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62 | M122A        | Z         | 4.317                     | 4.317                    | 0                    | %100               |
| 63 | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64 | M123A        | Z         | 1.079                     | 1.079                    | 0                    | %100               |
| 65 | M128         | X         | 0                         | 0                        | 0                    | %100               |
| 66 | M128         | Z         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 67 | M129         | X         | 0                         | 0                        | 0                    | %100               |
| 68 | M129         | Z         | 3e-6                      | 3e-6                     | 0                    | %100               |
| 69 | M138         | X         | 0                         | 0                        | 0                    | %100               |
| 70 | M138         | Z         | 1.856                     | 1.856                    | 0                    | %100               |
| 71 | M141         | X         | 0                         | 0                        | 0                    | %100               |
| 72 | M141         | Z         | 1.861                     | 1.861                    | 0                    | %100               |
| 73 | M150         | X         | 0                         | 0                        | 0                    | %100               |
| 74 | M150         | Z         | 1.861                     | 1.861                    | 0                    | %100               |
| 75 | M153         | X         | 0                         | 0                        | 0                    | %100               |
| 76 | M153         | Z         | 1.856                     | 1.856                    | 0                    | %100               |
| 77 | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78 | M98A         | Z         | 2.072                     | 2.072                    | 0                    | %100               |
| 79 | M99          | X         | 0                         | 0                        | 0                    | %100               |
| 80 | M99          | Z         | 2.072                     | 2.072                    | 0                    | %100               |
| 81 | MP4C         | X         | 0                         | 0                        | 0                    | %100               |
| 82 | MP4C         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 83 | MP3C         | X         | 0                         | 0                        | 0                    | %100               |
| 84 | MP3C         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 85 | MP2C         | X         | 0                         | 0                        | 0                    | %100               |
| 86 | MP2C         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 87 | MP1C         | X         | 0                         | 0                        | 0                    | %100               |
| 88 | MP1C         | Z         | 2.705                     | 2.705                    | 0                    | %100               |
| 89 | MP4B         | X         | 0                         | 0                        | 0                    | %100               |
| 90 | MP4B         | Z         | 2.705                     | 2.705                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91  | MP3B         | X         | 0                         | 0                        | 0                     | %100                |
| 92  | MP3B         | Z         | 2.705                     | 2.705                    | 0                     | %100                |
| 93  | MP2B         | X         | 0                         | 0                        | 0                     | %100                |
| 94  | MP2B         | Z         | 2.705                     | 2.705                    | 0                     | %100                |
| 95  | MP1B         | X         | 0                         | 0                        | 0                     | %100                |
| 96  | MP1B         | Z         | 2.705                     | 2.705                    | 0                     | %100                |
| 97  | OVP          | X         | 0                         | 0                        | 0                     | %100                |
| 98  | OVP          | Z         | 2.225                     | 2.225                    | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | 2.994                     | 2.994                    | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | .749                      | .749                     | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | .749                      | .749                     | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | .756                      | .756                     | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 3.026                     | 3.026                    | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | .756                      | .756                     | 0                     | %100                |
| 111 | M121         | X         | 0                         | 0                        | 0                     | %100                |
| 112 | M121         | Z         | 1.333                     | 1.333                    | 0                     | %100                |
| 113 | M123         | X         | 0                         | 0                        | 0                     | %100                |
| 114 | M123         | Z         | 3.127                     | 3.127                    | 0                     | %100                |
| 115 | M125A        | X         | 0                         | 0                        | 0                     | %100                |
| 116 | M125A        | Z         | 3.127                     | 3.127                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -.345                     | -.345                    | 0                     | %100                |
| 2  | M4           | Z         | .598                      | .598                     | 0                     | %100                |
| 3  | M5           | X         | -.378                     | -.378                    | 0                     | %100                |
| 4  | M5           | Z         | .654                      | .654                     | 0                     | %100                |
| 5  | M11          | X         | -.378                     | -.378                    | 0                     | %100                |
| 6  | M11          | Z         | .654                      | .654                     | 0                     | %100                |
| 7  | M17          | X         | -1.511                    | -1.511                   | 0                     | %100                |
| 8  | M17          | Z         | 2.617                     | 2.617                    | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | -1.126                    | -1.126                   | 0                     | %100                |
| 12 | M19          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | -1.126                    | -1.126                   | 0                     | %100                |
| 16 | M21          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 17 | M22          | X         | -1.101                    | -1.101                   | 0                     | %100                |
| 18 | M22          | Z         | 1.907                     | 1.907                    | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | -1.101                    | -1.101                   | 0                     | %100                |
| 22 | M24          | Z         | 1.907                     | 1.907                    | 0                     | %100                |
| 23 | M25          | X         | -1.126                    | -1.126                   | 0                     | %100                |
| 24 | M25          | Z         | 1.951                     | 1.951                    | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | -1.126                    | -1.126                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 28 | M27          | Z         | 1.951                     | 1.951                    | 0                    | %100               |
| 29 | M28          | X         | -.287                     | -.287                    | 0                    | %100               |
| 30 | M28          | Z         | .497                      | .497                     | 0                    | %100               |
| 31 | M29          | X         | -.285                     | -.285                    | 0                    | %100               |
| 32 | M29          | Z         | .494                      | .494                     | 0                    | %100               |
| 33 | M30          | X         | -1.144                    | -1.144                   | 0                    | %100               |
| 34 | M30          | Z         | 1.982                     | 1.982                    | 0                    | %100               |
| 35 | M31          | X         | -1.144                    | -1.144                   | 0                    | %100               |
| 36 | M31          | Z         | 1.982                     | 1.982                    | 0                    | %100               |
| 37 | M32          | X         | -.285                     | -.285                    | 0                    | %100               |
| 38 | M32          | Z         | .494                      | .494                     | 0                    | %100               |
| 39 | M33          | X         | -.287                     | -.287                    | 0                    | %100               |
| 40 | M33          | Z         | .497                      | .497                     | 0                    | %100               |
| 41 | M38          | X         | -.376                     | -.376                    | 0                    | %100               |
| 42 | M38          | Z         | .651                      | .651                     | 0                    | %100               |
| 43 | M39          | X         | -.376                     | -.376                    | 0                    | %100               |
| 44 | M39          | Z         | .651                      | .651                     | 0                    | %100               |
| 45 | M44          | X         | -.376                     | -.376                    | 0                    | %100               |
| 46 | M44          | Z         | .651                      | .651                     | 0                    | %100               |
| 47 | M45          | X         | -.376                     | -.376                    | 0                    | %100               |
| 48 | M45          | Z         | .651                      | .651                     | 0                    | %100               |
| 49 | M50          | X         | -1.503                    | -1.503                   | 0                    | %100               |
| 50 | M50          | Z         | 2.604                     | 2.604                    | 0                    | %100               |
| 51 | M51          | X         | -1.503                    | -1.503                   | 0                    | %100               |
| 52 | M51          | Z         | 2.604                     | 2.604                    | 0                    | %100               |
| 53 | MP5A         | X         | -1.352                    | -1.352                   | 0                    | %100               |
| 54 | MP5A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 55 | MP4A         | X         | -1.352                    | -1.352                   | 0                    | %100               |
| 56 | MP4A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 57 | MP2A         | X         | -1.352                    | -1.352                   | 0                    | %100               |
| 58 | MP2A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 59 | MP1A         | X         | -1.352                    | -1.352                   | 0                    | %100               |
| 60 | MP1A         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 61 | M122A        | X         | -1.619                    | -1.619                   | 0                    | %100               |
| 62 | M122A        | Z         | 2.804                     | 2.804                    | 0                    | %100               |
| 63 | M123A        | X         | -1.619                    | -1.619                   | 0                    | %100               |
| 64 | M123A        | Z         | 2.804                     | 2.804                    | 0                    | %100               |
| 65 | M128         | X         | -.311                     | -.311                    | 0                    | %100               |
| 66 | M128         | Z         | .539                      | .539                     | 0                    | %100               |
| 67 | M129         | X         | -.309                     | -.309                    | 0                    | %100               |
| 68 | M129         | Z         | .534                      | .534                     | 0                    | %100               |
| 69 | M138         | X         | -.309                     | -.309                    | 0                    | %100               |
| 70 | M138         | Z         | .534                      | .534                     | 0                    | %100               |
| 71 | M141         | X         | -.311                     | -.311                    | 0                    | %100               |
| 72 | M141         | Z         | .539                      | .539                     | 0                    | %100               |
| 73 | M150         | X         | -1.239                    | -1.239                   | 0                    | %100               |
| 74 | M150         | Z         | 2.146                     | 2.146                    | 0                    | %100               |
| 75 | M153         | X         | -1.239                    | -1.239                   | 0                    | %100               |
| 76 | M153         | Z         | 2.146                     | 2.146                    | 0                    | %100               |
| 77 | M98A         | X         | -.345                     | -.345                    | 0                    | %100               |
| 78 | M98A         | Z         | .598                      | .598                     | 0                    | %100               |
| 79 | M99          | X         | -1.381                    | -1.381                   | 0                    | %100               |
| 80 | M99          | Z         | 2.392                     | 2.392                    | 0                    | %100               |
| 81 | MP4C         | X         | -1.352                    | -1.352                   | 0                    | %100               |
| 82 | MP4C         | Z         | 2.342                     | 2.342                    | 0                    | %100               |
| 83 | MP3C         | X         | -1.352                    | -1.352                   | 0                    | %100               |
| 84 | MP3C         | Z         | 2.342                     | 2.342                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 85  | MP2C         | X         | -1.352                    | -1.352                   | 0                     | %100                |
| 86  | MP2C         | Z         | 2.342                     | 2.342                    | 0                     | %100                |
| 87  | MP1C         | X         | -1.352                    | -1.352                   | 0                     | %100                |
| 88  | MP1C         | Z         | 2.342                     | 2.342                    | 0                     | %100                |
| 89  | MP4B         | X         | -1.352                    | -1.352                   | 0                     | %100                |
| 90  | MP4B         | Z         | 2.342                     | 2.342                    | 0                     | %100                |
| 91  | MP3B         | X         | -1.352                    | -1.352                   | 0                     | %100                |
| 92  | MP3B         | Z         | 2.342                     | 2.342                    | 0                     | %100                |
| 93  | MP2B         | X         | -1.352                    | -1.352                   | 0                     | %100                |
| 94  | MP2B         | Z         | 2.342                     | 2.342                    | 0                     | %100                |
| 95  | MP1B         | X         | -1.352                    | -1.352                   | 0                     | %100                |
| 96  | MP1B         | Z         | 2.342                     | 2.342                    | 0                     | %100                |
| 97  | OVP          | X         | -1.112                    | -1.112                   | 0                     | %100                |
| 98  | OVP          | Z         | 1.927                     | 1.927                    | 0                     | %100                |
| 99  | M100         | X         | -1.123                    | -1.123                   | 0                     | %100                |
| 100 | M100         | Z         | 1.945                     | 1.945                    | 0                     | %100                |
| 101 | M107         | X         | -1.123                    | -1.123                   | 0                     | %100                |
| 102 | M107         | Z         | 1.945                     | 1.945                    | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | -1.135                    | -1.135                   | 0                     | %100                |
| 106 | M117         | Z         | 1.965                     | 1.965                    | 0                     | %100                |
| 107 | M118         | X         | -1.135                    | -1.135                   | 0                     | %100                |
| 108 | M118         | Z         | 1.965                     | 1.965                    | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | -.966                     | -.966                    | 0                     | %100                |
| 112 | M121         | Z         | 1.672                     | 1.672                    | 0                     | %100                |
| 113 | M123         | X         | -.966                     | -.966                    | 0                     | %100                |
| 114 | M123         | Z         | 1.672                     | 1.672                    | 0                     | %100                |
| 115 | M125A        | X         | -1.862                    | -1.862                   | 0                     | %100                |
| 116 | M125A        | Z         | 3.226                     | 3.226                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -1.794                    | -1.794                   | 0                     | %100                |
| 2  | M4           | Z         | 1.036                     | 1.036                    | 0                     | %100                |
| 3  | M5           | X         | -1.963                    | -1.963                   | 0                     | %100                |
| 4  | M5           | Z         | 1.133                     | 1.133                    | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | -1.963                    | -1.963                   | 0                     | %100                |
| 8  | M17          | Z         | 1.133                     | 1.133                    | 0                     | %100                |
| 9  | M18          | X         | -.935                     | -.935                    | 0                     | %100                |
| 10 | M18          | Z         | .54                       | .54                      | 0                     | %100                |
| 11 | M19          | X         | -2.601                    | -2.601                   | 0                     | %100                |
| 12 | M19          | Z         | 1.502                     | 1.502                    | 0                     | %100                |
| 13 | M20          | X         | -.65                      | -.65                     | 0                     | %100                |
| 14 | M20          | Z         | .375                      | .375                     | 0                     | %100                |
| 15 | M21          | X         | -.65                      | -.65                     | 0                     | %100                |
| 16 | M21          | Z         | .375                      | .375                     | 0                     | %100                |
| 17 | M22          | X         | -2.542                    | -2.542                   | 0                     | %100                |
| 18 | M22          | Z         | 1.468                     | 1.468                    | 0                     | %100                |
| 19 | M23          | X         | -.636                     | -.636                    | 0                     | %100                |
| 20 | M23          | Z         | .367                      | .367                     | 0                     | %100                |
| 21 | M24          | X         | -.636                     | -.636                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 22 | M24          | Z         | .367                      | .367                     | 0                    | %100               |
| 23 | M25          | X         | -2.601                    | -2.601                   | 0                    | %100               |
| 24 | M25          | Z         | 1.502                     | 1.502                    | 0                    | %100               |
| 25 | M26          | X         | -.65                      | -.65                     | 0                    | %100               |
| 26 | M26          | Z         | .375                      | .375                     | 0                    | %100               |
| 27 | M27          | X         | -.65                      | -.65                     | 0                    | %100               |
| 28 | M27          | Z         | .375                      | .375                     | 0                    | %100               |
| 29 | M28          | X         | -1.488                    | -1.488                   | 0                    | %100               |
| 30 | M28          | Z         | .859                      | .859                     | 0                    | %100               |
| 31 | M29          | X         | -2e-6                     | -2e-6                    | 0                    | %100               |
| 32 | M29          | Z         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 33 | M30          | X         | -1.484                    | -1.484                   | 0                    | %100               |
| 34 | M30          | Z         | .857                      | .857                     | 0                    | %100               |
| 35 | M31          | X         | -1.488                    | -1.488                   | 0                    | %100               |
| 36 | M31          | Z         | .859                      | .859                     | 0                    | %100               |
| 37 | M32          | X         | -1.484                    | -1.484                   | 0                    | %100               |
| 38 | M32          | Z         | .857                      | .857                     | 0                    | %100               |
| 39 | M33          | X         | -2e-6                     | -2e-6                    | 0                    | %100               |
| 40 | M33          | Z         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 41 | M38          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 42 | M38          | Z         | 1.127                     | 1.127                    | 0                    | %100               |
| 43 | M39          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 44 | M39          | Z         | 1.127                     | 1.127                    | 0                    | %100               |
| 45 | M44          | X         | 0                         | 0                        | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 50 | M50          | Z         | 1.127                     | 1.127                    | 0                    | %100               |
| 51 | M51          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 52 | M51          | Z         | 1.127                     | 1.127                    | 0                    | %100               |
| 53 | MP5A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 54 | MP5A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 55 | MP4A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 56 | MP4A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 57 | MP2A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 58 | MP2A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 59 | MP1A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 60 | MP1A         | Z         | 1.352                     | 1.352                    | 0                    | %100               |
| 61 | M122A        | X         | -.935                     | -.935                    | 0                    | %100               |
| 62 | M122A        | Z         | .54                       | .54                      | 0                    | %100               |
| 63 | M123A        | X         | -3.739                    | -3.739                   | 0                    | %100               |
| 64 | M123A        | Z         | 2.159                     | 2.159                    | 0                    | %100               |
| 65 | M128         | X         | -1.612                    | -1.612                   | 0                    | %100               |
| 66 | M128         | Z         | .931                      | .931                     | 0                    | %100               |
| 67 | M129         | X         | -1.608                    | -1.608                   | 0                    | %100               |
| 68 | M129         | Z         | .928                      | .928                     | 0                    | %100               |
| 69 | M138         | X         | -3e-6                     | -3e-6                    | 0                    | %100               |
| 70 | M138         | Z         | 2e-6                      | 2e-6                     | 0                    | %100               |
| 71 | M141         | X         | -3e-6                     | -3e-6                    | 0                    | %100               |
| 72 | M141         | Z         | 2e-6                      | 2e-6                     | 0                    | %100               |
| 73 | M150         | X         | -1.608                    | -1.608                   | 0                    | %100               |
| 74 | M150         | Z         | .928                      | .928                     | 0                    | %100               |
| 75 | M153         | X         | -1.612                    | -1.612                   | 0                    | %100               |
| 76 | M153         | Z         | .931                      | .931                     | 0                    | %100               |
| 77 | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78 | M98A         | Z         | 0                         | 0                        | 0                    | %100               |



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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 79  | M99          | X         | -1.794                    | -1.794                   | 0                     | %100                |
| 80  | M99          | Z         | 1.036                     | 1.036                    | 0                     | %100                |
| 81  | MP4C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 82  | MP4C         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 83  | MP3C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 84  | MP3C         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 85  | MP2C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 86  | MP2C         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 87  | MP1C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 88  | MP1C         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 89  | MP4B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 90  | MP4B         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 91  | MP3B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 92  | MP3B         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 93  | MP2B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 94  | MP2B         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 95  | MP1B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 96  | MP1B         | Z         | 1.352                     | 1.352                    | 0                     | %100                |
| 97  | OVP          | X         | -1.927                    | -1.927                   | 0                     | %100                |
| 98  | OVP          | Z         | 1.112                     | 1.112                    | 0                     | %100                |
| 99  | M100         | X         | -.648                     | -.648                    | 0                     | %100                |
| 100 | M100         | Z         | .374                      | .374                     | 0                     | %100                |
| 101 | M107         | X         | -2.593                    | -2.593                   | 0                     | %100                |
| 102 | M107         | Z         | 1.497                     | 1.497                    | 0                     | %100                |
| 103 | M114         | X         | -.648                     | -.648                    | 0                     | %100                |
| 104 | M114         | Z         | .374                      | .374                     | 0                     | %100                |
| 105 | M117         | X         | -2.62                     | -2.62                    | 0                     | %100                |
| 106 | M117         | Z         | 1.513                     | 1.513                    | 0                     | %100                |
| 107 | M118         | X         | -.655                     | -.655                    | 0                     | %100                |
| 108 | M118         | Z         | .378                      | .378                     | 0                     | %100                |
| 109 | M119         | X         | -.655                     | -.655                    | 0                     | %100                |
| 110 | M119         | Z         | .378                      | .378                     | 0                     | %100                |
| 111 | M121         | X         | -2.708                    | -2.708                   | 0                     | %100                |
| 112 | M121         | Z         | 1.563                     | 1.563                    | 0                     | %100                |
| 113 | M123         | X         | -1.155                    | -1.155                   | 0                     | %100                |
| 114 | M123         | Z         | .667                      | .667                     | 0                     | %100                |
| 115 | M125A        | X         | -2.708                    | -2.708                   | 0                     | %100                |
| 116 | M125A        | Z         | 1.563                     | 1.563                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -2.763                    | -2.763                   | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | -3.022                    | -3.022                   | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | -.755                     | -.755                    | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | -.755                     | -.755                    | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | -3.238                    | -3.238                   | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | -2.253                    | -2.253                   | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | -2.253                    | -2.253                   | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 16 | M21          | Z         | 0                         | 0                        | 0                    | %100               |
| 17 | M22          | X         | -2.202                    | -2.202                   | 0                    | %100               |
| 18 | M22          | Z         | 0                         | 0                        | 0                    | %100               |
| 19 | M23          | X         | -2.202                    | -2.202                   | 0                    | %100               |
| 20 | M23          | Z         | 0                         | 0                        | 0                    | %100               |
| 21 | M24          | X         | 0                         | 0                        | 0                    | %100               |
| 22 | M24          | Z         | 0                         | 0                        | 0                    | %100               |
| 23 | M25          | X         | -2.253                    | -2.253                   | 0                    | %100               |
| 24 | M25          | Z         | 0                         | 0                        | 0                    | %100               |
| 25 | M26          | X         | -2.253                    | -2.253                   | 0                    | %100               |
| 26 | M26          | Z         | 0                         | 0                        | 0                    | %100               |
| 27 | M27          | X         | 0                         | 0                        | 0                    | %100               |
| 28 | M27          | Z         | 0                         | 0                        | 0                    | %100               |
| 29 | M28          | X         | -2.288                    | -2.288                   | 0                    | %100               |
| 30 | M28          | Z         | 0                         | 0                        | 0                    | %100               |
| 31 | M29          | X         | -.574                     | -.574                    | 0                    | %100               |
| 32 | M29          | Z         | 0                         | 0                        | 0                    | %100               |
| 33 | M30          | X         | -.57                      | -.57                     | 0                    | %100               |
| 34 | M30          | Z         | 0                         | 0                        | 0                    | %100               |
| 35 | M31          | X         | -.574                     | -.574                    | 0                    | %100               |
| 36 | M31          | Z         | 0                         | 0                        | 0                    | %100               |
| 37 | M32          | X         | -2.288                    | -2.288                   | 0                    | %100               |
| 38 | M32          | Z         | 0                         | 0                        | 0                    | %100               |
| 39 | M33          | X         | -.57                      | -.57                     | 0                    | %100               |
| 40 | M33          | Z         | 0                         | 0                        | 0                    | %100               |
| 41 | M38          | X         | -3.006                    | -3.006                   | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | -3.006                    | -3.006                   | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | -.752                     | -.752                    | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | -.752                     | -.752                    | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | -.752                     | -.752                    | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | -.752                     | -.752                    | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | -2.705                    | -2.705                   | 0                    | %100               |
| 54 | MP5A         | Z         | 0                         | 0                        | 0                    | %100               |
| 55 | MP4A         | X         | -2.705                    | -2.705                   | 0                    | %100               |
| 56 | MP4A         | Z         | 0                         | 0                        | 0                    | %100               |
| 57 | MP2A         | X         | -2.705                    | -2.705                   | 0                    | %100               |
| 58 | MP2A         | Z         | 0                         | 0                        | 0                    | %100               |
| 59 | MP1A         | X         | -2.705                    | -2.705                   | 0                    | %100               |
| 60 | MP1A         | Z         | 0                         | 0                        | 0                    | %100               |
| 61 | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62 | M122A        | Z         | 0                         | 0                        | 0                    | %100               |
| 63 | M123A        | X         | -3.238                    | -3.238                   | 0                    | %100               |
| 64 | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65 | M128         | X         | -2.478                    | -2.478                   | 0                    | %100               |
| 66 | M128         | Z         | 0                         | 0                        | 0                    | %100               |
| 67 | M129         | X         | -2.478                    | -2.478                   | 0                    | %100               |
| 68 | M129         | Z         | 0                         | 0                        | 0                    | %100               |
| 69 | M138         | X         | -.622                     | -.622                    | 0                    | %100               |
| 70 | M138         | Z         | 0                         | 0                        | 0                    | %100               |
| 71 | M141         | X         | -.617                     | -.617                    | 0                    | %100               |
| 72 | M141         | Z         | 0                         | 0                        | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 73  | M150         | X         | -617                      | -617                     | 0                     | %100                |
| 74  | M150         | Z         | 0                         | 0                        | 0                     | %100                |
| 75  | M153         | X         | -622                      | -622                     | 0                     | %100                |
| 76  | M153         | Z         | 0                         | 0                        | 0                     | %100                |
| 77  | M98A         | X         | -691                      | -691                     | 0                     | %100                |
| 78  | M98A         | Z         | 0                         | 0                        | 0                     | %100                |
| 79  | M99          | X         | -691                      | -691                     | 0                     | %100                |
| 80  | M99          | Z         | 0                         | 0                        | 0                     | %100                |
| 81  | MP4C         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 82  | MP4C         | Z         | 0                         | 0                        | 0                     | %100                |
| 83  | MP3C         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 84  | MP3C         | Z         | 0                         | 0                        | 0                     | %100                |
| 85  | MP2C         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 86  | MP2C         | Z         | 0                         | 0                        | 0                     | %100                |
| 87  | MP1C         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 88  | MP1C         | Z         | 0                         | 0                        | 0                     | %100                |
| 89  | MP4B         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 90  | MP4B         | Z         | 0                         | 0                        | 0                     | %100                |
| 91  | MP3B         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 92  | MP3B         | Z         | 0                         | 0                        | 0                     | %100                |
| 93  | MP2B         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 94  | MP2B         | Z         | 0                         | 0                        | 0                     | %100                |
| 95  | MP1B         | X         | -2.705                    | -2.705                   | 0                     | %100                |
| 96  | MP1B         | Z         | 0                         | 0                        | 0                     | %100                |
| 97  | OVP          | X         | -2.225                    | -2.225                   | 0                     | %100                |
| 98  | OVP          | Z         | 0                         | 0                        | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | 0                         | 0                        | 0                     | %100                |
| 101 | M107         | X         | -2.246                    | -2.246                   | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | -2.246                    | -2.246                   | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | -2.269                    | -2.269                   | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 0                         | 0                        | 0                     | %100                |
| 109 | M119         | X         | -2.269                    | -2.269                   | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | -3.725                    | -3.725                   | 0                     | %100                |
| 112 | M121         | Z         | 0                         | 0                        | 0                     | %100                |
| 113 | M123         | X         | -1.931                    | -1.931                   | 0                     | %100                |
| 114 | M123         | Z         | 0                         | 0                        | 0                     | %100                |
| 115 | M125A        | X         | -1.931                    | -1.931                   | 0                     | %100                |
| 116 | M125A        | Z         | 0                         | 0                        | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | -1.794                    | -1.794                   | 0                     | %100                |
| 2 | M4           | Z         | -1.036                    | -1.036                   | 0                     | %100                |
| 3 | M5           | X         | -1.963                    | -1.963                   | 0                     | %100                |
| 4 | M5           | Z         | -1.133                    | -1.133                   | 0                     | %100                |
| 5 | M11          | X         | -1.963                    | -1.963                   | 0                     | %100                |
| 6 | M11          | Z         | -1.133                    | -1.133                   | 0                     | %100                |
| 7 | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8 | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9 | M18          | X         | -3.739                    | -3.739                   | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 10 | M18          | Z         | -2.159                    | -2.159                   | 0                    | %100               |
| 11 | M19          | X         | -.65                      | -.65                     | 0                    | %100               |
| 12 | M19          | Z         | -.375                     | -.375                    | 0                    | %100               |
| 13 | M20          | X         | -2.601                    | -2.601                   | 0                    | %100               |
| 14 | M20          | Z         | -1.502                    | -1.502                   | 0                    | %100               |
| 15 | M21          | X         | -.65                      | -.65                     | 0                    | %100               |
| 16 | M21          | Z         | -.375                     | -.375                    | 0                    | %100               |
| 17 | M22          | X         | -.636                     | -.636                    | 0                    | %100               |
| 18 | M22          | Z         | -.367                     | -.367                    | 0                    | %100               |
| 19 | M23          | X         | -2.542                    | -2.542                   | 0                    | %100               |
| 20 | M23          | Z         | -1.468                    | -1.468                   | 0                    | %100               |
| 21 | M24          | X         | -.636                     | -.636                    | 0                    | %100               |
| 22 | M24          | Z         | -.367                     | -.367                    | 0                    | %100               |
| 23 | M25          | X         | -.65                      | -.65                     | 0                    | %100               |
| 24 | M25          | Z         | -.375                     | -.375                    | 0                    | %100               |
| 25 | M26          | X         | -2.601                    | -2.601                   | 0                    | %100               |
| 26 | M26          | Z         | -1.502                    | -1.502                   | 0                    | %100               |
| 27 | M27          | X         | -.65                      | -.65                     | 0                    | %100               |
| 28 | M27          | Z         | -.375                     | -.375                    | 0                    | %100               |
| 29 | M28          | X         | -1.484                    | -1.484                   | 0                    | %100               |
| 30 | M28          | Z         | -.857                     | -.857                    | 0                    | %100               |
| 31 | M29          | X         | -1.488                    | -1.488                   | 0                    | %100               |
| 32 | M29          | Z         | -.859                     | -.859                    | 0                    | %100               |
| 33 | M30          | X         | -2e-6                     | -2e-6                    | 0                    | %100               |
| 34 | M30          | Z         | -1e-6                     | -1e-6                    | 0                    | %100               |
| 35 | M31          | X         | -2e-6                     | -2e-6                    | 0                    | %100               |
| 36 | M31          | Z         | -1e-6                     | -1e-6                    | 0                    | %100               |
| 37 | M32          | X         | -1.488                    | -1.488                   | 0                    | %100               |
| 38 | M32          | Z         | -.859                     | -.859                    | 0                    | %100               |
| 39 | M33          | X         | -1.484                    | -1.484                   | 0                    | %100               |
| 40 | M33          | Z         | -.857                     | -.857                    | 0                    | %100               |
| 41 | M38          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 42 | M38          | Z         | -1.127                    | -1.127                   | 0                    | %100               |
| 43 | M39          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 44 | M39          | Z         | -1.127                    | -1.127                   | 0                    | %100               |
| 45 | M44          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 46 | M44          | Z         | -1.127                    | -1.127                   | 0                    | %100               |
| 47 | M45          | X         | -1.953                    | -1.953                   | 0                    | %100               |
| 48 | M45          | Z         | -1.127                    | -1.127                   | 0                    | %100               |
| 49 | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 54 | MP5A         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 55 | MP4A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 56 | MP4A         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 57 | MP2A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 58 | MP2A         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 59 | MP1A         | X         | -2.342                    | -2.342                   | 0                    | %100               |
| 60 | MP1A         | Z         | -1.352                    | -1.352                   | 0                    | %100               |
| 61 | M122A        | X         | -.935                     | -.935                    | 0                    | %100               |
| 62 | M122A        | Z         | -.54                      | -.54                     | 0                    | %100               |
| 63 | M123A        | X         | -.935                     | -.935                    | 0                    | %100               |
| 64 | M123A        | Z         | -.54                      | -.54                     | 0                    | %100               |
| 65 | M128         | X         | -1.608                    | -1.608                   | 0                    | %100               |
| 66 | M128         | Z         | -.928                     | -.928                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 67  | M129         | X         | -1.612                    | -1.612                   | 0                     | %100                |
| 68  | M129         | Z         | -.931                     | -.931                    | 0                     | %100                |
| 69  | M138         | X         | -1.612                    | -1.612                   | 0                     | %100                |
| 70  | M138         | Z         | -.931                     | -.931                    | 0                     | %100                |
| 71  | M141         | X         | -1.608                    | -1.608                   | 0                     | %100                |
| 72  | M141         | Z         | -.928                     | -.928                    | 0                     | %100                |
| 73  | M150         | X         | -3e-6                     | -3e-6                    | 0                     | %100                |
| 74  | M150         | Z         | -2e-6                     | -2e-6                    | 0                     | %100                |
| 75  | M153         | X         | -3e-6                     | -3e-6                    | 0                     | %100                |
| 76  | M153         | Z         | -2e-6                     | -2e-6                    | 0                     | %100                |
| 77  | M98A         | X         | -1.794                    | -1.794                   | 0                     | %100                |
| 78  | M98A         | Z         | -1.036                    | -1.036                   | 0                     | %100                |
| 79  | M99          | X         | 0                         | 0                        | 0                     | %100                |
| 80  | M99          | Z         | 0                         | 0                        | 0                     | %100                |
| 81  | MP4C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 82  | MP4C         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 83  | MP3C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 84  | MP3C         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 85  | MP2C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 86  | MP2C         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 87  | MP1C         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 88  | MP1C         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 89  | MP4B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 90  | MP4B         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 91  | MP3B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 92  | MP3B         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 93  | MP2B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 94  | MP2B         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 95  | MP1B         | X         | -2.342                    | -2.342                   | 0                     | %100                |
| 96  | MP1B         | Z         | -1.352                    | -1.352                   | 0                     | %100                |
| 97  | OVP          | X         | -1.927                    | -1.927                   | 0                     | %100                |
| 98  | OVP          | Z         | -1.112                    | -1.112                   | 0                     | %100                |
| 99  | M100         | X         | -.648                     | -.648                    | 0                     | %100                |
| 100 | M100         | Z         | -.374                     | -.374                    | 0                     | %100                |
| 101 | M107         | X         | -.648                     | -.648                    | 0                     | %100                |
| 102 | M107         | Z         | -.374                     | -.374                    | 0                     | %100                |
| 103 | M114         | X         | -2.593                    | -2.593                   | 0                     | %100                |
| 104 | M114         | Z         | -1.497                    | -1.497                   | 0                     | %100                |
| 105 | M117         | X         | -.655                     | -.655                    | 0                     | %100                |
| 106 | M117         | Z         | -.378                     | -.378                    | 0                     | %100                |
| 107 | M118         | X         | -.655                     | -.655                    | 0                     | %100                |
| 108 | M118         | Z         | -.378                     | -.378                    | 0                     | %100                |
| 109 | M119         | X         | -2.62                     | -2.62                    | 0                     | %100                |
| 110 | M119         | Z         | -1.513                    | -1.513                   | 0                     | %100                |
| 111 | M121         | X         | -2.708                    | -2.708                   | 0                     | %100                |
| 112 | M121         | Z         | -1.563                    | -1.563                   | 0                     | %100                |
| 113 | M123         | X         | -2.708                    | -2.708                   | 0                     | %100                |
| 114 | M123         | Z         | -1.563                    | -1.563                   | 0                     | %100                |
| 115 | M125A        | X         | -1.155                    | -1.155                   | 0                     | %100                |
| 116 | M125A        | Z         | -.667                     | -.667                    | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | -.345                     | -.345                    | 0                     | %100                |
| 2 | M4           | Z         | -.598                     | -.598                    | 0                     | %100                |
| 3 | M5           | X         | -.378                     | -.378                    | 0                     | %100                |

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

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 4            | M5        | Z                         | -0.654                   | -0.654               | 0 %100             |
| 5            | M11       | X                         | -1.511                   | -1.511               | 0 %100             |
| 6            | M11       | Z                         | -2.617                   | -2.617               | 0 %100             |
| 7            | M17       | X                         | -0.378                   | -0.378               | 0 %100             |
| 8            | M17       | Z                         | -0.654                   | -0.654               | 0 %100             |
| 9            | M18       | X                         | -1.619                   | -1.619               | 0 %100             |
| 10           | M18       | Z                         | -2.804                   | -2.804               | 0 %100             |
| 11           | M19       | X                         | 0                        | 0                    | 0 %100             |
| 12           | M19       | Z                         | 0                        | 0                    | 0 %100             |
| 13           | M20       | X                         | -1.126                   | -1.126               | 0 %100             |
| 14           | M20       | Z                         | -1.951                   | -1.951               | 0 %100             |
| 15           | M21       | X                         | -1.126                   | -1.126               | 0 %100             |
| 16           | M21       | Z                         | -1.951                   | -1.951               | 0 %100             |
| 17           | M22       | X                         | 0                        | 0                    | 0 %100             |
| 18           | M22       | Z                         | 0                        | 0                    | 0 %100             |
| 19           | M23       | X                         | -1.101                   | -1.101               | 0 %100             |
| 20           | M23       | Z                         | -1.907                   | -1.907               | 0 %100             |
| 21           | M24       | X                         | -1.101                   | -1.101               | 0 %100             |
| 22           | M24       | Z                         | -1.907                   | -1.907               | 0 %100             |
| 23           | M25       | X                         | 0                        | 0                    | 0 %100             |
| 24           | M25       | Z                         | 0                        | 0                    | 0 %100             |
| 25           | M26       | X                         | -1.126                   | -1.126               | 0 %100             |
| 26           | M26       | Z                         | -1.951                   | -1.951               | 0 %100             |
| 27           | M27       | X                         | -1.126                   | -1.126               | 0 %100             |
| 28           | M27       | Z                         | -1.951                   | -1.951               | 0 %100             |
| 29           | M28       | X                         | -0.285                   | -0.285               | 0 %100             |
| 30           | M28       | Z                         | -0.494                   | -0.494               | 0 %100             |
| 31           | M29       | X                         | -1.144                   | -1.144               | 0 %100             |
| 32           | M29       | Z                         | -1.982                   | -1.982               | 0 %100             |
| 33           | M30       | X                         | -0.287                   | -0.287               | 0 %100             |
| 34           | M30       | Z                         | -0.497                   | -0.497               | 0 %100             |
| 35           | M31       | X                         | -0.285                   | -0.285               | 0 %100             |
| 36           | M31       | Z                         | -0.494                   | -0.494               | 0 %100             |
| 37           | M32       | X                         | -0.287                   | -0.287               | 0 %100             |
| 38           | M32       | Z                         | -0.497                   | -0.497               | 0 %100             |
| 39           | M33       | X                         | -1.144                   | -1.144               | 0 %100             |
| 40           | M33       | Z                         | -1.982                   | -1.982               | 0 %100             |
| 41           | M38       | X                         | -0.376                   | -0.376               | 0 %100             |
| 42           | M38       | Z                         | -0.651                   | -0.651               | 0 %100             |
| 43           | M39       | X                         | -0.376                   | -0.376               | 0 %100             |
| 44           | M39       | Z                         | -0.651                   | -0.651               | 0 %100             |
| 45           | M44       | X                         | -1.503                   | -1.503               | 0 %100             |
| 46           | M44       | Z                         | -2.604                   | -2.604               | 0 %100             |
| 47           | M45       | X                         | -1.503                   | -1.503               | 0 %100             |
| 48           | M45       | Z                         | -2.604                   | -2.604               | 0 %100             |
| 49           | M50       | X                         | -0.376                   | -0.376               | 0 %100             |
| 50           | M50       | Z                         | -0.651                   | -0.651               | 0 %100             |
| 51           | M51       | X                         | -0.376                   | -0.376               | 0 %100             |
| 52           | M51       | Z                         | -0.651                   | -0.651               | 0 %100             |
| 53           | MP5A      | X                         | -1.352                   | -1.352               | 0 %100             |
| 54           | MP5A      | Z                         | -2.342                   | -2.342               | 0 %100             |
| 55           | MP4A      | X                         | -1.352                   | -1.352               | 0 %100             |
| 56           | MP4A      | Z                         | -2.342                   | -2.342               | 0 %100             |
| 57           | MP2A      | X                         | -1.352                   | -1.352               | 0 %100             |
| 58           | MP2A      | Z                         | -2.342                   | -2.342               | 0 %100             |
| 59           | MP1A      | X                         | -1.352                   | -1.352               | 0 %100             |
| 60           | MP1A      | Z                         | -2.342                   | -2.342               | 0 %100             |

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

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 61           | M122A     | X                         | -1.619                   | -1.619                | 0 %100              |
| 62           | M122A     | Z                         | -2.804                   | -2.804                | 0 %100              |
| 63           | M123A     | X                         | 0                        | 0                     | 0 %100              |
| 64           | M123A     | Z                         | 0                        | 0                     | 0 %100              |
| 65           | M128      | X                         | -.309                    | -.309                 | 0 %100              |
| 66           | M128      | Z                         | -.534                    | -.534                 | 0 %100              |
| 67           | M129      | X                         | -.311                    | -.311                 | 0 %100              |
| 68           | M129      | Z                         | -.539                    | -.539                 | 0 %100              |
| 69           | M138      | X                         | -1.239                   | -1.239                | 0 %100              |
| 70           | M138      | Z                         | -2.146                   | -2.146                | 0 %100              |
| 71           | M141      | X                         | -1.239                   | -1.239                | 0 %100              |
| 72           | M141      | Z                         | -2.146                   | -2.146                | 0 %100              |
| 73           | M150      | X                         | -.311                    | -.311                 | 0 %100              |
| 74           | M150      | Z                         | -.539                    | -.539                 | 0 %100              |
| 75           | M153      | X                         | -.309                    | -.309                 | 0 %100              |
| 76           | M153      | Z                         | -.534                    | -.534                 | 0 %100              |
| 77           | M98A      | X                         | -1.381                   | -1.381                | 0 %100              |
| 78           | M98A      | Z                         | -2.392                   | -2.392                | 0 %100              |
| 79           | M99       | X                         | -.345                    | -.345                 | 0 %100              |
| 80           | M99       | Z                         | -.598                    | -.598                 | 0 %100              |
| 81           | MP4C      | X                         | -1.352                   | -1.352                | 0 %100              |
| 82           | MP4C      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 83           | MP3C      | X                         | -1.352                   | -1.352                | 0 %100              |
| 84           | MP3C      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 85           | MP2C      | X                         | -1.352                   | -1.352                | 0 %100              |
| 86           | MP2C      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 87           | MP1C      | X                         | -1.352                   | -1.352                | 0 %100              |
| 88           | MP1C      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 89           | MP4B      | X                         | -1.352                   | -1.352                | 0 %100              |
| 90           | MP4B      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 91           | MP3B      | X                         | -1.352                   | -1.352                | 0 %100              |
| 92           | MP3B      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 93           | MP2B      | X                         | -1.352                   | -1.352                | 0 %100              |
| 94           | MP2B      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 95           | MP1B      | X                         | -1.352                   | -1.352                | 0 %100              |
| 96           | MP1B      | Z                         | -2.342                   | -2.342                | 0 %100              |
| 97           | OVP       | X                         | -1.112                   | -1.112                | 0 %100              |
| 98           | OVP       | Z                         | -1.927                   | -1.927                | 0 %100              |
| 99           | M100      | X                         | -1.123                   | -1.123                | 0 %100              |
| 100          | M100      | Z                         | -1.945                   | -1.945                | 0 %100              |
| 101          | M107      | X                         | 0                        | 0                     | 0 %100              |
| 102          | M107      | Z                         | 0                        | 0                     | 0 %100              |
| 103          | M114      | X                         | -1.123                   | -1.123                | 0 %100              |
| 104          | M114      | Z                         | -1.945                   | -1.945                | 0 %100              |
| 105          | M117      | X                         | 0                        | 0                     | 0 %100              |
| 106          | M117      | Z                         | 0                        | 0                     | 0 %100              |
| 107          | M118      | X                         | -1.135                   | -1.135                | 0 %100              |
| 108          | M118      | Z                         | -1.965                   | -1.965                | 0 %100              |
| 109          | M119      | X                         | -1.135                   | -1.135                | 0 %100              |
| 110          | M119      | Z                         | -1.965                   | -1.965                | 0 %100              |
| 111          | M121      | X                         | -.966                    | -.966                 | 0 %100              |
| 112          | M121      | Z                         | -1.672                   | -1.672                | 0 %100              |
| 113          | M123      | X                         | -1.862                   | -1.862                | 0 %100              |
| 114          | M123      | Z                         | -3.226                   | -3.226                | 0 %100              |
| 115          | M125A     | X                         | -.966                    | -.966                 | 0 %100              |
| 116          | M125A     | Z                         | -1.672                   | -1.672                | 0 %100              |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 0                         | 0                        | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | 0                         | 0                        | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | -.457                     | -.457                    | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | -.457                     | -.457                    | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | -.313                     | -.313                    | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | -.152                     | -.152                    | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | -.152                     | -.152                    | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | -.608                     | -.608                    | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | -.149                     | -.149                    | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | -.149                     | -.149                    | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | -.596                     | -.596                    | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | -.152                     | -.152                    | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | -.152                     | -.152                    | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | -.608                     | -.608                    | 0                     | %100                |
| 29 | M28          | X         | 0                         | 0                        | 0                     | %100                |
| 30 | M28          | Z         | -1e-6                     | -1e-6                    | 0                     | %100                |
| 31 | M29          | X         | 0                         | 0                        | 0                     | %100                |
| 32 | M29          | Z         | -.321                     | -.321                    | 0                     | %100                |
| 33 | M30          | X         | 0                         | 0                        | 0                     | %100                |
| 34 | M30          | Z         | -.322                     | -.322                    | 0                     | %100                |
| 35 | M31          | X         | 0                         | 0                        | 0                     | %100                |
| 36 | M31          | Z         | -.321                     | -.321                    | 0                     | %100                |
| 37 | M32          | X         | 0                         | 0                        | 0                     | %100                |
| 38 | M32          | Z         | -1e-6                     | -1e-6                    | 0                     | %100                |
| 39 | M33          | X         | 0                         | 0                        | 0                     | %100                |
| 40 | M33          | Z         | -.322                     | -.322                    | 0                     | %100                |
| 41 | M38          | X         | 0                         | 0                        | 0                     | %100                |
| 42 | M38          | Z         | 0                         | 0                        | 0                     | %100                |
| 43 | M39          | X         | 0                         | 0                        | 0                     | %100                |
| 44 | M39          | Z         | 0                         | 0                        | 0                     | %100                |
| 45 | M44          | X         | 0                         | 0                        | 0                     | %100                |
| 46 | M44          | Z         | -.523                     | -.523                    | 0                     | %100                |
| 47 | M45          | X         | 0                         | 0                        | 0                     | %100                |
| 48 | M45          | Z         | -.523                     | -.523                    | 0                     | %100                |
| 49 | M50          | X         | 0                         | 0                        | 0                     | %100                |
| 50 | M50          | Z         | -.523                     | -.523                    | 0                     | %100                |
| 51 | M51          | X         | 0                         | 0                        | 0                     | %100                |
| 52 | M51          | Z         | -.523                     | -.523                    | 0                     | %100                |
| 53 | MP5A         | X         | 0                         | 0                        | 0                     | %100                |
| 54 | MP5A         | Z         | -.495                     | -.495                    | 0                     | %100                |
| 55 | MP4A         | X         | 0                         | 0                        | 0                     | %100                |
| 56 | MP4A         | Z         | -.495                     | -.495                    | 0                     | %100                |
| 57 | MP2A         | X         | 0                         | 0                        | 0                     | %100                |



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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 58  | MP2A         | Z         | -495                      | -495                     | 0                    | %100               |
| 59  | MP1A         | X         | 0                         | 0                        | 0                    | %100               |
| 60  | MP1A         | Z         | -495                      | -495                     | 0                    | %100               |
| 61  | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62  | M122A        | Z         | -1.251                    | -1.251                   | 0                    | %100               |
| 63  | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64  | M123A        | Z         | -313                      | -313                     | 0                    | %100               |
| 65  | M128         | X         | 0                         | 0                        | 0                    | %100               |
| 66  | M128         | Z         | -1e-6                     | -1e-6                    | 0                    | %100               |
| 67  | M129         | X         | 0                         | 0                        | 0                    | %100               |
| 68  | M129         | Z         | -1e-6                     | -1e-6                    | 0                    | %100               |
| 69  | M138         | X         | 0                         | 0                        | 0                    | %100               |
| 70  | M138         | Z         | -435                      | -435                     | 0                    | %100               |
| 71  | M141         | X         | 0                         | 0                        | 0                    | %100               |
| 72  | M141         | Z         | -436                      | -436                     | 0                    | %100               |
| 73  | M150         | X         | 0                         | 0                        | 0                    | %100               |
| 74  | M150         | Z         | -436                      | -436                     | 0                    | %100               |
| 75  | M153         | X         | 0                         | 0                        | 0                    | %100               |
| 76  | M153         | Z         | -435                      | -435                     | 0                    | %100               |
| 77  | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78  | M98A         | Z         | -417                      | -417                     | 0                    | %100               |
| 79  | M99          | X         | 0                         | 0                        | 0                    | %100               |
| 80  | M99          | Z         | -417                      | -417                     | 0                    | %100               |
| 81  | MP4C         | X         | 0                         | 0                        | 0                    | %100               |
| 82  | MP4C         | Z         | -495                      | -495                     | 0                    | %100               |
| 83  | MP3C         | X         | 0                         | 0                        | 0                    | %100               |
| 84  | MP3C         | Z         | -495                      | -495                     | 0                    | %100               |
| 85  | MP2C         | X         | 0                         | 0                        | 0                    | %100               |
| 86  | MP2C         | Z         | -495                      | -495                     | 0                    | %100               |
| 87  | MP1C         | X         | 0                         | 0                        | 0                    | %100               |
| 88  | MP1C         | Z         | -495                      | -495                     | 0                    | %100               |
| 89  | MP4B         | X         | 0                         | 0                        | 0                    | %100               |
| 90  | MP4B         | Z         | -495                      | -495                     | 0                    | %100               |
| 91  | MP3B         | X         | 0                         | 0                        | 0                    | %100               |
| 92  | MP3B         | Z         | -495                      | -495                     | 0                    | %100               |
| 93  | MP2B         | X         | 0                         | 0                        | 0                    | %100               |
| 94  | MP2B         | Z         | -495                      | -495                     | 0                    | %100               |
| 95  | MP1B         | X         | 0                         | 0                        | 0                    | %100               |
| 96  | MP1B         | Z         | -495                      | -495                     | 0                    | %100               |
| 97  | OVP          | X         | 0                         | 0                        | 0                    | %100               |
| 98  | OVP          | Z         | -405                      | -405                     | 0                    | %100               |
| 99  | M100         | X         | 0                         | 0                        | 0                    | %100               |
| 100 | M100         | Z         | -599                      | -599                     | 0                    | %100               |
| 101 | M107         | X         | 0                         | 0                        | 0                    | %100               |
| 102 | M107         | Z         | -.15                      | -.15                     | 0                    | %100               |
| 103 | M114         | X         | 0                         | 0                        | 0                    | %100               |
| 104 | M114         | Z         | -.15                      | -.15                     | 0                    | %100               |
| 105 | M117         | X         | 0                         | 0                        | 0                    | %100               |
| 106 | M117         | Z         | -.186                     | -.186                    | 0                    | %100               |
| 107 | M118         | X         | 0                         | 0                        | 0                    | %100               |
| 108 | M118         | Z         | -.743                     | -.743                    | 0                    | %100               |
| 109 | M119         | X         | 0                         | 0                        | 0                    | %100               |
| 110 | M119         | Z         | -.186                     | -.186                    | 0                    | %100               |
| 111 | M121         | X         | 0                         | 0                        | 0                    | %100               |
| 112 | M121         | Z         | -.374                     | -.374                    | 0                    | %100               |
| 113 | M123         | X         | 0                         | 0                        | 0                    | %100               |
| 114 | M123         | Z         | -.764                     | -.764                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 115 | M125A        | X         | 0                         | 0                        | 0                     | %100                |
| 116 | M125A        | Z         | -.764                     | -.764                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | .07                       | .07                      | 0                     | %100                |
| 2  | M4           | Z         | -.12                      | -.12                     | 0                     | %100                |
| 3  | M5           | X         | .076                      | .076                     | 0                     | %100                |
| 4  | M5           | Z         | -.132                     | -.132                    | 0                     | %100                |
| 5  | M11          | X         | .076                      | .076                     | 0                     | %100                |
| 6  | M11          | Z         | -.132                     | -.132                    | 0                     | %100                |
| 7  | M17          | X         | .305                      | .305                     | 0                     | %100                |
| 8  | M17          | Z         | -.528                     | -.528                    | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | .228                      | .228                     | 0                     | %100                |
| 12 | M19          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | .228                      | .228                     | 0                     | %100                |
| 16 | M21          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 17 | M22          | X         | .223                      | .223                     | 0                     | %100                |
| 18 | M22          | Z         | -.387                     | -.387                    | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | .223                      | .223                     | 0                     | %100                |
| 22 | M24          | Z         | -.387                     | -.387                    | 0                     | %100                |
| 23 | M25          | X         | .228                      | .228                     | 0                     | %100                |
| 24 | M25          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 25 | M26          | X         | 0                         | 0                        | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | .228                      | .228                     | 0                     | %100                |
| 28 | M27          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 29 | M28          | X         | .054                      | .054                     | 0                     | %100                |
| 30 | M28          | Z         | -.093                     | -.093                    | 0                     | %100                |
| 31 | M29          | X         | .053                      | .053                     | 0                     | %100                |
| 32 | M29          | Z         | -.092                     | -.092                    | 0                     | %100                |
| 33 | M30          | X         | .214                      | .214                     | 0                     | %100                |
| 34 | M30          | Z         | -.371                     | -.371                    | 0                     | %100                |
| 35 | M31          | X         | .214                      | .214                     | 0                     | %100                |
| 36 | M31          | Z         | -.371                     | -.371                    | 0                     | %100                |
| 37 | M32          | X         | .053                      | .053                     | 0                     | %100                |
| 38 | M32          | Z         | -.092                     | -.092                    | 0                     | %100                |
| 39 | M33          | X         | .054                      | .054                     | 0                     | %100                |
| 40 | M33          | Z         | -.093                     | -.093                    | 0                     | %100                |
| 41 | M38          | X         | .087                      | .087                     | 0                     | %100                |
| 42 | M38          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 43 | M39          | X         | .087                      | .087                     | 0                     | %100                |
| 44 | M39          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 45 | M44          | X         | .087                      | .087                     | 0                     | %100                |
| 46 | M44          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 47 | M45          | X         | .087                      | .087                     | 0                     | %100                |
| 48 | M45          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 49 | M50          | X         | .349                      | .349                     | 0                     | %100                |
| 50 | M50          | Z         | -.604                     | -.604                    | 0                     | %100                |
| 51 | M51          | X         | .349                      | .349                     | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 52  | M51          | Z         | -.604                     | -.604                    | 0                     | %100                |
| 53  | MP5A         | X         | .248                      | .248                     | 0                     | %100                |
| 54  | MP5A         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 55  | MP4A         | X         | .248                      | .248                     | 0                     | %100                |
| 56  | MP4A         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 57  | MP2A         | X         | .248                      | .248                     | 0                     | %100                |
| 58  | MP2A         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 59  | MP1A         | X         | .248                      | .248                     | 0                     | %100                |
| 60  | MP1A         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 61  | M122A        | X         | .469                      | .469                     | 0                     | %100                |
| 62  | M122A        | Z         | -.812                     | -.812                    | 0                     | %100                |
| 63  | M123A        | X         | .469                      | .469                     | 0                     | %100                |
| 64  | M123A        | Z         | -.812                     | -.812                    | 0                     | %100                |
| 65  | M128         | X         | .073                      | .073                     | 0                     | %100                |
| 66  | M128         | Z         | -.126                     | -.126                    | 0                     | %100                |
| 67  | M129         | X         | .072                      | .072                     | 0                     | %100                |
| 68  | M129         | Z         | -.125                     | -.125                    | 0                     | %100                |
| 69  | M138         | X         | .072                      | .072                     | 0                     | %100                |
| 70  | M138         | Z         | -.125                     | -.125                    | 0                     | %100                |
| 71  | M141         | X         | .073                      | .073                     | 0                     | %100                |
| 72  | M141         | Z         | -.126                     | -.126                    | 0                     | %100                |
| 73  | M150         | X         | .291                      | .291                     | 0                     | %100                |
| 74  | M150         | Z         | -.503                     | -.503                    | 0                     | %100                |
| 75  | M153         | X         | .291                      | .291                     | 0                     | %100                |
| 76  | M153         | Z         | -.503                     | -.503                    | 0                     | %100                |
| 77  | M98A         | X         | .07                       | .07                      | 0                     | %100                |
| 78  | M98A         | Z         | -.12                      | -.12                     | 0                     | %100                |
| 79  | M99          | X         | .278                      | .278                     | 0                     | %100                |
| 80  | M99          | Z         | -.482                     | -.482                    | 0                     | %100                |
| 81  | MP4C         | X         | .248                      | .248                     | 0                     | %100                |
| 82  | MP4C         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 83  | MP3C         | X         | .248                      | .248                     | 0                     | %100                |
| 84  | MP3C         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 85  | MP2C         | X         | .248                      | .248                     | 0                     | %100                |
| 86  | MP2C         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 87  | MP1C         | X         | .248                      | .248                     | 0                     | %100                |
| 88  | MP1C         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 89  | MP4B         | X         | .248                      | .248                     | 0                     | %100                |
| 90  | MP4B         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 91  | MP3B         | X         | .248                      | .248                     | 0                     | %100                |
| 92  | MP3B         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 93  | MP2B         | X         | .248                      | .248                     | 0                     | %100                |
| 94  | MP2B         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 95  | MP1B         | X         | .248                      | .248                     | 0                     | %100                |
| 96  | MP1B         | Z         | -.429                     | -.429                    | 0                     | %100                |
| 97  | OVP          | X         | .202                      | .202                     | 0                     | %100                |
| 98  | OVP          | Z         | -.351                     | -.351                    | 0                     | %100                |
| 99  | M100         | X         | .225                      | .225                     | 0                     | %100                |
| 100 | M100         | Z         | -.389                     | -.389                    | 0                     | %100                |
| 101 | M107         | X         | .225                      | .225                     | 0                     | %100                |
| 102 | M107         | Z         | -.389                     | -.389                    | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | .278                      | .278                     | 0                     | %100                |
| 106 | M117         | Z         | -.482                     | -.482                    | 0                     | %100                |
| 107 | M118         | X         | .278                      | .278                     | 0                     | %100                |
| 108 | M118         | Z         | -.482                     | -.482                    | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | .252                      | .252                     | 0                     | %100                |
| 112 | M121         | Z         | -.436                     | -.436                    | 0                     | %100                |
| 113 | M123         | X         | .252                      | .252                     | 0                     | %100                |
| 114 | M123         | Z         | -.436                     | -.436                    | 0                     | %100                |
| 115 | M125A        | X         | .447                      | .447                     | 0                     | %100                |
| 116 | M125A        | Z         | -.774                     | -.774                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | .361                      | .361                     | 0                     | %100                |
| 2  | M4           | Z         | -.209                     | -.209                    | 0                     | %100                |
| 3  | M5           | X         | .396                      | .396                     | 0                     | %100                |
| 4  | M5           | Z         | -.228                     | -.228                    | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | .396                      | .396                     | 0                     | %100                |
| 8  | M17          | Z         | -.228                     | -.228                    | 0                     | %100                |
| 9  | M18          | X         | .271                      | .271                     | 0                     | %100                |
| 10 | M18          | Z         | -.156                     | -.156                    | 0                     | %100                |
| 11 | M19          | X         | .527                      | .527                     | 0                     | %100                |
| 12 | M19          | Z         | -.304                     | -.304                    | 0                     | %100                |
| 13 | M20          | X         | .132                      | .132                     | 0                     | %100                |
| 14 | M20          | Z         | -.076                     | -.076                    | 0                     | %100                |
| 15 | M21          | X         | .132                      | .132                     | 0                     | %100                |
| 16 | M21          | Z         | -.076                     | -.076                    | 0                     | %100                |
| 17 | M22          | X         | .516                      | .516                     | 0                     | %100                |
| 18 | M22          | Z         | -.298                     | -.298                    | 0                     | %100                |
| 19 | M23          | X         | .129                      | .129                     | 0                     | %100                |
| 20 | M23          | Z         | -.074                     | -.074                    | 0                     | %100                |
| 21 | M24          | X         | .129                      | .129                     | 0                     | %100                |
| 22 | M24          | Z         | -.074                     | -.074                    | 0                     | %100                |
| 23 | M25          | X         | .527                      | .527                     | 0                     | %100                |
| 24 | M25          | Z         | -.304                     | -.304                    | 0                     | %100                |
| 25 | M26          | X         | .132                      | .132                     | 0                     | %100                |
| 26 | M26          | Z         | -.076                     | -.076                    | 0                     | %100                |
| 27 | M27          | X         | .132                      | .132                     | 0                     | %100                |
| 28 | M27          | Z         | -.076                     | -.076                    | 0                     | %100                |
| 29 | M28          | X         | .279                      | .279                     | 0                     | %100                |
| 30 | M28          | Z         | -.161                     | -.161                    | 0                     | %100                |
| 31 | M29          | X         | 0                         | 0                        | 0                     | %100                |
| 32 | M29          | Z         | 0                         | 0                        | 0                     | %100                |
| 33 | M30          | X         | .278                      | .278                     | 0                     | %100                |
| 34 | M30          | Z         | -.16                      | -.16                     | 0                     | %100                |
| 35 | M31          | X         | .279                      | .279                     | 0                     | %100                |
| 36 | M31          | Z         | -.161                     | -.161                    | 0                     | %100                |
| 37 | M32          | X         | .278                      | .278                     | 0                     | %100                |
| 38 | M32          | Z         | -.16                      | -.16                     | 0                     | %100                |
| 39 | M33          | X         | 0                         | 0                        | 0                     | %100                |
| 40 | M33          | Z         | 0                         | 0                        | 0                     | %100                |
| 41 | M38          | X         | .453                      | .453                     | 0                     | %100                |
| 42 | M38          | Z         | -.262                     | -.262                    | 0                     | %100                |
| 43 | M39          | X         | .453                      | .453                     | 0                     | %100                |
| 44 | M39          | Z         | -.262                     | -.262                    | 0                     | %100                |
| 45 | M44          | X         | 0                         | 0                        | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude lb/ft,... | End Magnitude lb/ft,F... | Start Location ft, % | End Location ft, % |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 46  | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47  | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48  | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49  | M50          | X         | .453                      | .453                     | 0                    | %100               |
| 50  | M50          | Z         | -.262                     | -.262                    | 0                    | %100               |
| 51  | M51          | X         | .453                      | .453                     | 0                    | %100               |
| 52  | M51          | Z         | -.262                     | -.262                    | 0                    | %100               |
| 53  | MP5A         | X         | .429                      | .429                     | 0                    | %100               |
| 54  | MP5A         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 55  | MP4A         | X         | .429                      | .429                     | 0                    | %100               |
| 56  | MP4A         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 57  | MP2A         | X         | .429                      | .429                     | 0                    | %100               |
| 58  | MP2A         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 59  | MP1A         | X         | .429                      | .429                     | 0                    | %100               |
| 60  | MP1A         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 61  | M122A        | X         | .271                      | .271                     | 0                    | %100               |
| 62  | M122A        | Z         | -.156                     | -.156                    | 0                    | %100               |
| 63  | M123A        | X         | 1.083                     | 1.083                    | 0                    | %100               |
| 64  | M123A        | Z         | -.625                     | -.625                    | 0                    | %100               |
| 65  | M128         | X         | .378                      | .378                     | 0                    | %100               |
| 66  | M128         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 67  | M129         | X         | .377                      | .377                     | 0                    | %100               |
| 68  | M129         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 69  | M138         | X         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 70  | M138         | Z         | 0                         | 0                        | 0                    | %100               |
| 71  | M141         | X         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 72  | M141         | Z         | 0                         | 0                        | 0                    | %100               |
| 73  | M150         | X         | .377                      | .377                     | 0                    | %100               |
| 74  | M150         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 75  | M153         | X         | .378                      | .378                     | 0                    | %100               |
| 76  | M153         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 77  | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78  | M98A         | Z         | 0                         | 0                        | 0                    | %100               |
| 79  | M99          | X         | .361                      | .361                     | 0                    | %100               |
| 80  | M99          | Z         | -.209                     | -.209                    | 0                    | %100               |
| 81  | MP4C         | X         | .429                      | .429                     | 0                    | %100               |
| 82  | MP4C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 83  | MP3C         | X         | .429                      | .429                     | 0                    | %100               |
| 84  | MP3C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 85  | MP2C         | X         | .429                      | .429                     | 0                    | %100               |
| 86  | MP2C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 87  | MP1C         | X         | .429                      | .429                     | 0                    | %100               |
| 88  | MP1C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 89  | MP4B         | X         | .429                      | .429                     | 0                    | %100               |
| 90  | MP4B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 91  | MP3B         | X         | .429                      | .429                     | 0                    | %100               |
| 92  | MP3B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 93  | MP2B         | X         | .429                      | .429                     | 0                    | %100               |
| 94  | MP2B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 95  | MP1B         | X         | .429                      | .429                     | 0                    | %100               |
| 96  | MP1B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 97  | OVP          | X         | .351                      | .351                     | 0                    | %100               |
| 98  | OVP          | Z         | -.202                     | -.202                    | 0                    | %100               |
| 99  | M100         | X         | .13                       | .13                      | 0                    | %100               |
| 100 | M100         | Z         | -.075                     | -.075                    | 0                    | %100               |
| 101 | M107         | X         | .519                      | .519                     | 0                    | %100               |
| 102 | M107         | Z         | -.3                       | -.3                      | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 103 | M114         | X         | .13                       | .13                      | 0                     | %100                |
| 104 | M114         | Z         | -.075                     | -.075                    | 0                     | %100                |
| 105 | M117         | X         | .643                      | .643                     | 0                     | %100                |
| 106 | M117         | Z         | -.371                     | -.371                    | 0                     | %100                |
| 107 | M118         | X         | .161                      | .161                     | 0                     | %100                |
| 108 | M118         | Z         | -.093                     | -.093                    | 0                     | %100                |
| 109 | M119         | X         | .161                      | .161                     | 0                     | %100                |
| 110 | M119         | Z         | -.093                     | -.093                    | 0                     | %100                |
| 111 | M121         | X         | .661                      | .661                     | 0                     | %100                |
| 112 | M121         | Z         | -.382                     | -.382                    | 0                     | %100                |
| 113 | M123         | X         | .324                      | .324                     | 0                     | %100                |
| 114 | M123         | Z         | -.187                     | -.187                    | 0                     | %100                |
| 115 | M125A        | X         | .661                      | .661                     | 0                     | %100                |
| 116 | M125A        | Z         | -.382                     | -.382                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | .556                      | .556                     | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | .609                      | .609                     | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | .152                      | .152                     | 0                     | %100                |
| 6  | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7  | M17          | X         | .152                      | .152                     | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | .938                      | .938                     | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | .456                      | .456                     | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | .456                      | .456                     | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | 0                         | 0                        | 0                     | %100                |
| 17 | M22          | X         | .447                      | .447                     | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | .447                      | .447                     | 0                     | %100                |
| 20 | M23          | Z         | 0                         | 0                        | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |
| 22 | M24          | Z         | 0                         | 0                        | 0                     | %100                |
| 23 | M25          | X         | .456                      | .456                     | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | .456                      | .456                     | 0                     | %100                |
| 26 | M26          | Z         | 0                         | 0                        | 0                     | %100                |
| 27 | M27          | X         | 0                         | 0                        | 0                     | %100                |
| 28 | M27          | Z         | 0                         | 0                        | 0                     | %100                |
| 29 | M28          | X         | .428                      | .428                     | 0                     | %100                |
| 30 | M28          | Z         | 0                         | 0                        | 0                     | %100                |
| 31 | M29          | X         | .108                      | .108                     | 0                     | %100                |
| 32 | M29          | Z         | 0                         | 0                        | 0                     | %100                |
| 33 | M30          | X         | .107                      | .107                     | 0                     | %100                |
| 34 | M30          | Z         | 0                         | 0                        | 0                     | %100                |
| 35 | M31          | X         | .108                      | .108                     | 0                     | %100                |
| 36 | M31          | Z         | 0                         | 0                        | 0                     | %100                |
| 37 | M32          | X         | .428                      | .428                     | 0                     | %100                |
| 38 | M32          | Z         | 0                         | 0                        | 0                     | %100                |
| 39 | M33          | X         | .107                      | .107                     | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude lb/ft,... | End Magnitude lb/ft,F... | Start Location ft, % | End Location ft, % |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 40 | M33          | Z         | 0                         | 0                        | 0                    | %100               |
| 41 | M38          | X         | .698                      | .698                     | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | .698                      | .698                     | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | .174                      | .174                     | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | .174                      | .174                     | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | .174                      | .174                     | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | .174                      | .174                     | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | .495                      | .495                     | 0                    | %100               |
| 54 | MP5A         | Z         | 0                         | 0                        | 0                    | %100               |
| 55 | MP4A         | X         | .495                      | .495                     | 0                    | %100               |
| 56 | MP4A         | Z         | 0                         | 0                        | 0                    | %100               |
| 57 | MP2A         | X         | .495                      | .495                     | 0                    | %100               |
| 58 | MP2A         | Z         | 0                         | 0                        | 0                    | %100               |
| 59 | MP1A         | X         | .495                      | .495                     | 0                    | %100               |
| 60 | MP1A         | Z         | 0                         | 0                        | 0                    | %100               |
| 61 | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62 | M122A        | Z         | 0                         | 0                        | 0                    | %100               |
| 63 | M123A        | X         | .938                      | .938                     | 0                    | %100               |
| 64 | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65 | M128         | X         | .581                      | .581                     | 0                    | %100               |
| 66 | M128         | Z         | 0                         | 0                        | 0                    | %100               |
| 67 | M129         | X         | .581                      | .581                     | 0                    | %100               |
| 68 | M129         | Z         | 0                         | 0                        | 0                    | %100               |
| 69 | M138         | X         | .146                      | .146                     | 0                    | %100               |
| 70 | M138         | Z         | 0                         | 0                        | 0                    | %100               |
| 71 | M141         | X         | .145                      | .145                     | 0                    | %100               |
| 72 | M141         | Z         | 0                         | 0                        | 0                    | %100               |
| 73 | M150         | X         | .145                      | .145                     | 0                    | %100               |
| 74 | M150         | Z         | 0                         | 0                        | 0                    | %100               |
| 75 | M153         | X         | .146                      | .146                     | 0                    | %100               |
| 76 | M153         | Z         | 0                         | 0                        | 0                    | %100               |
| 77 | M98A         | X         | .139                      | .139                     | 0                    | %100               |
| 78 | M98A         | Z         | 0                         | 0                        | 0                    | %100               |
| 79 | M99          | X         | .139                      | .139                     | 0                    | %100               |
| 80 | M99          | Z         | 0                         | 0                        | 0                    | %100               |
| 81 | MP4C         | X         | .495                      | .495                     | 0                    | %100               |
| 82 | MP4C         | Z         | 0                         | 0                        | 0                    | %100               |
| 83 | MP3C         | X         | .495                      | .495                     | 0                    | %100               |
| 84 | MP3C         | Z         | 0                         | 0                        | 0                    | %100               |
| 85 | MP2C         | X         | .495                      | .495                     | 0                    | %100               |
| 86 | MP2C         | Z         | 0                         | 0                        | 0                    | %100               |
| 87 | MP1C         | X         | .495                      | .495                     | 0                    | %100               |
| 88 | MP1C         | Z         | 0                         | 0                        | 0                    | %100               |
| 89 | MP4B         | X         | .495                      | .495                     | 0                    | %100               |
| 90 | MP4B         | Z         | 0                         | 0                        | 0                    | %100               |
| 91 | MP3B         | X         | .495                      | .495                     | 0                    | %100               |
| 92 | MP3B         | Z         | 0                         | 0                        | 0                    | %100               |
| 93 | MP2B         | X         | .495                      | .495                     | 0                    | %100               |
| 94 | MP2B         | Z         | 0                         | 0                        | 0                    | %100               |
| 95 | MP1B         | X         | .495                      | .495                     | 0                    | %100               |
| 96 | MP1B         | Z         | 0                         | 0                        | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 97  | OVP          | X         | .405                      | .405                     | 0                     | %100                |
| 98  | OVP          | Z         | 0                         | 0                        | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | 0                         | 0                        | 0                     | %100                |
| 101 | M107         | X         | .45                       | .45                      | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | .45                       | .45                      | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | .557                      | .557                     | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 0                         | 0                        | 0                     | %100                |
| 109 | M119         | X         | .557                      | .557                     | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | .894                      | .894                     | 0                     | %100                |
| 112 | M121         | Z         | 0                         | 0                        | 0                     | %100                |
| 113 | M123         | X         | .504                      | .504                     | 0                     | %100                |
| 114 | M123         | Z         | 0                         | 0                        | 0                     | %100                |
| 115 | M125A        | X         | .504                      | .504                     | 0                     | %100                |
| 116 | M125A        | Z         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | .361                      | .361                     | 0                     | %100                |
| 2  | M4           | Z         | .209                      | .209                     | 0                     | %100                |
| 3  | M5           | X         | .396                      | .396                     | 0                     | %100                |
| 4  | M5           | Z         | .228                      | .228                     | 0                     | %100                |
| 5  | M11          | X         | .396                      | .396                     | 0                     | %100                |
| 6  | M11          | Z         | .228                      | .228                     | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | 1.083                     | 1.083                    | 0                     | %100                |
| 10 | M18          | Z         | .625                      | .625                     | 0                     | %100                |
| 11 | M19          | X         | .132                      | .132                     | 0                     | %100                |
| 12 | M19          | Z         | .076                      | .076                     | 0                     | %100                |
| 13 | M20          | X         | .527                      | .527                     | 0                     | %100                |
| 14 | M20          | Z         | .304                      | .304                     | 0                     | %100                |
| 15 | M21          | X         | .132                      | .132                     | 0                     | %100                |
| 16 | M21          | Z         | .076                      | .076                     | 0                     | %100                |
| 17 | M22          | X         | .129                      | .129                     | 0                     | %100                |
| 18 | M22          | Z         | .074                      | .074                     | 0                     | %100                |
| 19 | M23          | X         | .516                      | .516                     | 0                     | %100                |
| 20 | M23          | Z         | .298                      | .298                     | 0                     | %100                |
| 21 | M24          | X         | .129                      | .129                     | 0                     | %100                |
| 22 | M24          | Z         | .074                      | .074                     | 0                     | %100                |
| 23 | M25          | X         | .132                      | .132                     | 0                     | %100                |
| 24 | M25          | Z         | .076                      | .076                     | 0                     | %100                |
| 25 | M26          | X         | .527                      | .527                     | 0                     | %100                |
| 26 | M26          | Z         | .304                      | .304                     | 0                     | %100                |
| 27 | M27          | X         | .132                      | .132                     | 0                     | %100                |
| 28 | M27          | Z         | .076                      | .076                     | 0                     | %100                |
| 29 | M28          | X         | .278                      | .278                     | 0                     | %100                |
| 30 | M28          | Z         | .16                       | .16                      | 0                     | %100                |
| 31 | M29          | X         | .279                      | .279                     | 0                     | %100                |
| 32 | M29          | Z         | .161                      | .161                     | 0                     | %100                |
| 33 | M30          | X         | 0                         | 0                        | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 34 | M30          | Z         | 0                         | 0                        | 0                    | %100               |
| 35 | M31          | X         | 0                         | 0                        | 0                    | %100               |
| 36 | M31          | Z         | 0                         | 0                        | 0                    | %100               |
| 37 | M32          | X         | .279                      | .279                     | 0                    | %100               |
| 38 | M32          | Z         | .161                      | .161                     | 0                    | %100               |
| 39 | M33          | X         | .278                      | .278                     | 0                    | %100               |
| 40 | M33          | Z         | .16                       | .16                      | 0                    | %100               |
| 41 | M38          | X         | .453                      | .453                     | 0                    | %100               |
| 42 | M38          | Z         | .262                      | .262                     | 0                    | %100               |
| 43 | M39          | X         | .453                      | .453                     | 0                    | %100               |
| 44 | M39          | Z         | .262                      | .262                     | 0                    | %100               |
| 45 | M44          | X         | .453                      | .453                     | 0                    | %100               |
| 46 | M44          | Z         | .262                      | .262                     | 0                    | %100               |
| 47 | M45          | X         | .453                      | .453                     | 0                    | %100               |
| 48 | M45          | Z         | .262                      | .262                     | 0                    | %100               |
| 49 | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | .429                      | .429                     | 0                    | %100               |
| 54 | MP5A         | Z         | .248                      | .248                     | 0                    | %100               |
| 55 | MP4A         | X         | .429                      | .429                     | 0                    | %100               |
| 56 | MP4A         | Z         | .248                      | .248                     | 0                    | %100               |
| 57 | MP2A         | X         | .429                      | .429                     | 0                    | %100               |
| 58 | MP2A         | Z         | .248                      | .248                     | 0                    | %100               |
| 59 | MP1A         | X         | .429                      | .429                     | 0                    | %100               |
| 60 | MP1A         | Z         | .248                      | .248                     | 0                    | %100               |
| 61 | M122A        | X         | .271                      | .271                     | 0                    | %100               |
| 62 | M122A        | Z         | .156                      | .156                     | 0                    | %100               |
| 63 | M123A        | X         | .271                      | .271                     | 0                    | %100               |
| 64 | M123A        | Z         | .156                      | .156                     | 0                    | %100               |
| 65 | M128         | X         | .377                      | .377                     | 0                    | %100               |
| 66 | M128         | Z         | .218                      | .218                     | 0                    | %100               |
| 67 | M129         | X         | .378                      | .378                     | 0                    | %100               |
| 68 | M129         | Z         | .218                      | .218                     | 0                    | %100               |
| 69 | M138         | X         | .378                      | .378                     | 0                    | %100               |
| 70 | M138         | Z         | .218                      | .218                     | 0                    | %100               |
| 71 | M141         | X         | .377                      | .377                     | 0                    | %100               |
| 72 | M141         | Z         | .218                      | .218                     | 0                    | %100               |
| 73 | M150         | X         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 74 | M150         | Z         | 0                         | 0                        | 0                    | %100               |
| 75 | M153         | X         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 76 | M153         | Z         | 0                         | 0                        | 0                    | %100               |
| 77 | M98A         | X         | .361                      | .361                     | 0                    | %100               |
| 78 | M98A         | Z         | .209                      | .209                     | 0                    | %100               |
| 79 | M99          | X         | 0                         | 0                        | 0                    | %100               |
| 80 | M99          | Z         | 0                         | 0                        | 0                    | %100               |
| 81 | MP4C         | X         | .429                      | .429                     | 0                    | %100               |
| 82 | MP4C         | Z         | .248                      | .248                     | 0                    | %100               |
| 83 | MP3C         | X         | .429                      | .429                     | 0                    | %100               |
| 84 | MP3C         | Z         | .248                      | .248                     | 0                    | %100               |
| 85 | MP2C         | X         | .429                      | .429                     | 0                    | %100               |
| 86 | MP2C         | Z         | .248                      | .248                     | 0                    | %100               |
| 87 | MP1C         | X         | .429                      | .429                     | 0                    | %100               |
| 88 | MP1C         | Z         | .248                      | .248                     | 0                    | %100               |
| 89 | MP4B         | X         | .429                      | .429                     | 0                    | %100               |
| 90 | MP4B         | Z         | .248                      | .248                     | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 91  | MP3B         | X         | .429                      | .429                     | 0                     | %100                |
| 92  | MP3B         | Z         | .248                      | .248                     | 0                     | %100                |
| 93  | MP2B         | X         | .429                      | .429                     | 0                     | %100                |
| 94  | MP2B         | Z         | .248                      | .248                     | 0                     | %100                |
| 95  | MP1B         | X         | .429                      | .429                     | 0                     | %100                |
| 96  | MP1B         | Z         | .248                      | .248                     | 0                     | %100                |
| 97  | OVP          | X         | .351                      | .351                     | 0                     | %100                |
| 98  | OVP          | Z         | .202                      | .202                     | 0                     | %100                |
| 99  | M100         | X         | .13                       | .13                      | 0                     | %100                |
| 100 | M100         | Z         | .075                      | .075                     | 0                     | %100                |
| 101 | M107         | X         | .13                       | .13                      | 0                     | %100                |
| 102 | M107         | Z         | .075                      | .075                     | 0                     | %100                |
| 103 | M114         | X         | .519                      | .519                     | 0                     | %100                |
| 104 | M114         | Z         | .3                        | .3                       | 0                     | %100                |
| 105 | M117         | X         | .161                      | .161                     | 0                     | %100                |
| 106 | M117         | Z         | .093                      | .093                     | 0                     | %100                |
| 107 | M118         | X         | .161                      | .161                     | 0                     | %100                |
| 108 | M118         | Z         | .093                      | .093                     | 0                     | %100                |
| 109 | M119         | X         | .643                      | .643                     | 0                     | %100                |
| 110 | M119         | Z         | .371                      | .371                     | 0                     | %100                |
| 111 | M121         | X         | .661                      | .661                     | 0                     | %100                |
| 112 | M121         | Z         | .382                      | .382                     | 0                     | %100                |
| 113 | M123         | X         | .661                      | .661                     | 0                     | %100                |
| 114 | M123         | Z         | .382                      | .382                     | 0                     | %100                |
| 115 | M125A        | X         | .324                      | .324                     | 0                     | %100                |
| 116 | M125A        | Z         | .187                      | .187                     | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | .07                       | .07                      | 0                     | %100                |
| 2  | M4           | Z         | .12                       | .12                      | 0                     | %100                |
| 3  | M5           | X         | .076                      | .076                     | 0                     | %100                |
| 4  | M5           | Z         | .132                      | .132                     | 0                     | %100                |
| 5  | M11          | X         | .305                      | .305                     | 0                     | %100                |
| 6  | M11          | Z         | .528                      | .528                     | 0                     | %100                |
| 7  | M17          | X         | .076                      | .076                     | 0                     | %100                |
| 8  | M17          | Z         | .132                      | .132                     | 0                     | %100                |
| 9  | M18          | X         | .469                      | .469                     | 0                     | %100                |
| 10 | M18          | Z         | .812                      | .812                     | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | .228                      | .228                     | 0                     | %100                |
| 14 | M20          | Z         | .395                      | .395                     | 0                     | %100                |
| 15 | M21          | X         | .228                      | .228                     | 0                     | %100                |
| 16 | M21          | Z         | .395                      | .395                     | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | .223                      | .223                     | 0                     | %100                |
| 20 | M23          | Z         | .387                      | .387                     | 0                     | %100                |
| 21 | M24          | X         | .223                      | .223                     | 0                     | %100                |
| 22 | M24          | Z         | .387                      | .387                     | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | .228                      | .228                     | 0                     | %100                |
| 26 | M26          | Z         | .395                      | .395                     | 0                     | %100                |
| 27 | M27          | X         | .228                      | .228                     | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 28 | M27          | Z         | .395                      | .395                     | 0                    | %100               |
| 29 | M28          | X         | .053                      | .053                     | 0                    | %100               |
| 30 | M28          | Z         | .092                      | .092                     | 0                    | %100               |
| 31 | M29          | X         | .214                      | .214                     | 0                    | %100               |
| 32 | M29          | Z         | .371                      | .371                     | 0                    | %100               |
| 33 | M30          | X         | .054                      | .054                     | 0                    | %100               |
| 34 | M30          | Z         | .093                      | .093                     | 0                    | %100               |
| 35 | M31          | X         | .053                      | .053                     | 0                    | %100               |
| 36 | M31          | Z         | .092                      | .092                     | 0                    | %100               |
| 37 | M32          | X         | .054                      | .054                     | 0                    | %100               |
| 38 | M32          | Z         | .093                      | .093                     | 0                    | %100               |
| 39 | M33          | X         | .214                      | .214                     | 0                    | %100               |
| 40 | M33          | Z         | .371                      | .371                     | 0                    | %100               |
| 41 | M38          | X         | .087                      | .087                     | 0                    | %100               |
| 42 | M38          | Z         | .151                      | .151                     | 0                    | %100               |
| 43 | M39          | X         | .087                      | .087                     | 0                    | %100               |
| 44 | M39          | Z         | .151                      | .151                     | 0                    | %100               |
| 45 | M44          | X         | .349                      | .349                     | 0                    | %100               |
| 46 | M44          | Z         | .604                      | .604                     | 0                    | %100               |
| 47 | M45          | X         | .349                      | .349                     | 0                    | %100               |
| 48 | M45          | Z         | .604                      | .604                     | 0                    | %100               |
| 49 | M50          | X         | .087                      | .087                     | 0                    | %100               |
| 50 | M50          | Z         | .151                      | .151                     | 0                    | %100               |
| 51 | M51          | X         | .087                      | .087                     | 0                    | %100               |
| 52 | M51          | Z         | .151                      | .151                     | 0                    | %100               |
| 53 | MP5A         | X         | .248                      | .248                     | 0                    | %100               |
| 54 | MP5A         | Z         | .429                      | .429                     | 0                    | %100               |
| 55 | MP4A         | X         | .248                      | .248                     | 0                    | %100               |
| 56 | MP4A         | Z         | .429                      | .429                     | 0                    | %100               |
| 57 | MP2A         | X         | .248                      | .248                     | 0                    | %100               |
| 58 | MP2A         | Z         | .429                      | .429                     | 0                    | %100               |
| 59 | MP1A         | X         | .248                      | .248                     | 0                    | %100               |
| 60 | MP1A         | Z         | .429                      | .429                     | 0                    | %100               |
| 61 | M122A        | X         | .469                      | .469                     | 0                    | %100               |
| 62 | M122A        | Z         | .812                      | .812                     | 0                    | %100               |
| 63 | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64 | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65 | M128         | X         | .072                      | .072                     | 0                    | %100               |
| 66 | M128         | Z         | .125                      | .125                     | 0                    | %100               |
| 67 | M129         | X         | .073                      | .073                     | 0                    | %100               |
| 68 | M129         | Z         | .126                      | .126                     | 0                    | %100               |
| 69 | M138         | X         | .291                      | .291                     | 0                    | %100               |
| 70 | M138         | Z         | .503                      | .503                     | 0                    | %100               |
| 71 | M141         | X         | .291                      | .291                     | 0                    | %100               |
| 72 | M141         | Z         | .503                      | .503                     | 0                    | %100               |
| 73 | M150         | X         | .073                      | .073                     | 0                    | %100               |
| 74 | M150         | Z         | .126                      | .126                     | 0                    | %100               |
| 75 | M153         | X         | .072                      | .072                     | 0                    | %100               |
| 76 | M153         | Z         | .125                      | .125                     | 0                    | %100               |
| 77 | M98A         | X         | .278                      | .278                     | 0                    | %100               |
| 78 | M98A         | Z         | .482                      | .482                     | 0                    | %100               |
| 79 | M99          | X         | .07                       | .07                      | 0                    | %100               |
| 80 | M99          | Z         | .12                       | .12                      | 0                    | %100               |
| 81 | MP4C         | X         | .248                      | .248                     | 0                    | %100               |
| 82 | MP4C         | Z         | .429                      | .429                     | 0                    | %100               |
| 83 | MP3C         | X         | .248                      | .248                     | 0                    | %100               |
| 84 | MP3C         | Z         | .429                      | .429                     | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 85  | MP2C         | X         | .248                      | .248                     | 0                     | %100                |
| 86  | MP2C         | Z         | .429                      | .429                     | 0                     | %100                |
| 87  | MP1C         | X         | .248                      | .248                     | 0                     | %100                |
| 88  | MP1C         | Z         | .429                      | .429                     | 0                     | %100                |
| 89  | MP4B         | X         | .248                      | .248                     | 0                     | %100                |
| 90  | MP4B         | Z         | .429                      | .429                     | 0                     | %100                |
| 91  | MP3B         | X         | .248                      | .248                     | 0                     | %100                |
| 92  | MP3B         | Z         | .429                      | .429                     | 0                     | %100                |
| 93  | MP2B         | X         | .248                      | .248                     | 0                     | %100                |
| 94  | MP2B         | Z         | .429                      | .429                     | 0                     | %100                |
| 95  | MP1B         | X         | .248                      | .248                     | 0                     | %100                |
| 96  | MP1B         | Z         | .429                      | .429                     | 0                     | %100                |
| 97  | OVP          | X         | .202                      | .202                     | 0                     | %100                |
| 98  | OVP          | Z         | .351                      | .351                     | 0                     | %100                |
| 99  | M100         | X         | .225                      | .225                     | 0                     | %100                |
| 100 | M100         | Z         | .389                      | .389                     | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | .225                      | .225                     | 0                     | %100                |
| 104 | M114         | Z         | .389                      | .389                     | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | .278                      | .278                     | 0                     | %100                |
| 108 | M118         | Z         | .482                      | .482                     | 0                     | %100                |
| 109 | M119         | X         | .278                      | .278                     | 0                     | %100                |
| 110 | M119         | Z         | .482                      | .482                     | 0                     | %100                |
| 111 | M121         | X         | .252                      | .252                     | 0                     | %100                |
| 112 | M121         | Z         | .436                      | .436                     | 0                     | %100                |
| 113 | M123         | X         | .447                      | .447                     | 0                     | %100                |
| 114 | M123         | Z         | .774                      | .774                     | 0                     | %100                |
| 115 | M125A        | X         | .252                      | .252                     | 0                     | %100                |
| 116 | M125A        | Z         | .436                      | .436                     | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | 0                         | 0                        | 0                     | %100                |
| 2  | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3  | M5           | X         | 0                         | 0                        | 0                     | %100                |
| 4  | M5           | Z         | 0                         | 0                        | 0                     | %100                |
| 5  | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6  | M11          | Z         | .457                      | .457                     | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | .457                      | .457                     | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | .313                      | .313                     | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | .152                      | .152                     | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | .152                      | .152                     | 0                     | %100                |
| 15 | M21          | X         | 0                         | 0                        | 0                     | %100                |
| 16 | M21          | Z         | .608                      | .608                     | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | .149                      | .149                     | 0                     | %100                |
| 19 | M23          | X         | 0                         | 0                        | 0                     | %100                |
| 20 | M23          | Z         | .149                      | .149                     | 0                     | %100                |
| 21 | M24          | X         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 22 | M24          | Z         | .596                      | .596                     | 0                    | %100               |
| 23 | M25          | X         | 0                         | 0                        | 0                    | %100               |
| 24 | M25          | Z         | .152                      | .152                     | 0                    | %100               |
| 25 | M26          | X         | 0                         | 0                        | 0                    | %100               |
| 26 | M26          | Z         | .152                      | .152                     | 0                    | %100               |
| 27 | M27          | X         | 0                         | 0                        | 0                    | %100               |
| 28 | M27          | Z         | .608                      | .608                     | 0                    | %100               |
| 29 | M28          | X         | 0                         | 0                        | 0                    | %100               |
| 30 | M28          | Z         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 31 | M29          | X         | 0                         | 0                        | 0                    | %100               |
| 32 | M29          | Z         | .321                      | .321                     | 0                    | %100               |
| 33 | M30          | X         | 0                         | 0                        | 0                    | %100               |
| 34 | M30          | Z         | .322                      | .322                     | 0                    | %100               |
| 35 | M31          | X         | 0                         | 0                        | 0                    | %100               |
| 36 | M31          | Z         | .321                      | .321                     | 0                    | %100               |
| 37 | M32          | X         | 0                         | 0                        | 0                    | %100               |
| 38 | M32          | Z         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 39 | M33          | X         | 0                         | 0                        | 0                    | %100               |
| 40 | M33          | Z         | .322                      | .322                     | 0                    | %100               |
| 41 | M38          | X         | 0                         | 0                        | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | 0                         | 0                        | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | 0                         | 0                        | 0                    | %100               |
| 46 | M44          | Z         | .523                      | .523                     | 0                    | %100               |
| 47 | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48 | M45          | Z         | .523                      | .523                     | 0                    | %100               |
| 49 | M50          | X         | 0                         | 0                        | 0                    | %100               |
| 50 | M50          | Z         | .523                      | .523                     | 0                    | %100               |
| 51 | M51          | X         | 0                         | 0                        | 0                    | %100               |
| 52 | M51          | Z         | .523                      | .523                     | 0                    | %100               |
| 53 | MP5A         | X         | 0                         | 0                        | 0                    | %100               |
| 54 | MP5A         | Z         | .495                      | .495                     | 0                    | %100               |
| 55 | MP4A         | X         | 0                         | 0                        | 0                    | %100               |
| 56 | MP4A         | Z         | .495                      | .495                     | 0                    | %100               |
| 57 | MP2A         | X         | 0                         | 0                        | 0                    | %100               |
| 58 | MP2A         | Z         | .495                      | .495                     | 0                    | %100               |
| 59 | MP1A         | X         | 0                         | 0                        | 0                    | %100               |
| 60 | MP1A         | Z         | .495                      | .495                     | 0                    | %100               |
| 61 | M122A        | X         | 0                         | 0                        | 0                    | %100               |
| 62 | M122A        | Z         | 1.251                     | 1.251                    | 0                    | %100               |
| 63 | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64 | M123A        | Z         | .313                      | .313                     | 0                    | %100               |
| 65 | M128         | X         | 0                         | 0                        | 0                    | %100               |
| 66 | M128         | Z         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 67 | M129         | X         | 0                         | 0                        | 0                    | %100               |
| 68 | M129         | Z         | 1e-6                      | 1e-6                     | 0                    | %100               |
| 69 | M138         | X         | 0                         | 0                        | 0                    | %100               |
| 70 | M138         | Z         | .435                      | .435                     | 0                    | %100               |
| 71 | M141         | X         | 0                         | 0                        | 0                    | %100               |
| 72 | M141         | Z         | .436                      | .436                     | 0                    | %100               |
| 73 | M150         | X         | 0                         | 0                        | 0                    | %100               |
| 74 | M150         | Z         | .436                      | .436                     | 0                    | %100               |
| 75 | M153         | X         | 0                         | 0                        | 0                    | %100               |
| 76 | M153         | Z         | .435                      | .435                     | 0                    | %100               |
| 77 | M98A         | X         | 0                         | 0                        | 0                    | %100               |
| 78 | M98A         | Z         | .417                      | .417                     | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 79  | M99          | X         | 0                         | 0                        | 0                     | %100                |
| 80  | M99          | Z         | .417                      | .417                     | 0                     | %100                |
| 81  | MP4C         | X         | 0                         | 0                        | 0                     | %100                |
| 82  | MP4C         | Z         | .495                      | .495                     | 0                     | %100                |
| 83  | MP3C         | X         | 0                         | 0                        | 0                     | %100                |
| 84  | MP3C         | Z         | .495                      | .495                     | 0                     | %100                |
| 85  | MP2C         | X         | 0                         | 0                        | 0                     | %100                |
| 86  | MP2C         | Z         | .495                      | .495                     | 0                     | %100                |
| 87  | MP1C         | X         | 0                         | 0                        | 0                     | %100                |
| 88  | MP1C         | Z         | .495                      | .495                     | 0                     | %100                |
| 89  | MP4B         | X         | 0                         | 0                        | 0                     | %100                |
| 90  | MP4B         | Z         | .495                      | .495                     | 0                     | %100                |
| 91  | MP3B         | X         | 0                         | 0                        | 0                     | %100                |
| 92  | MP3B         | Z         | .495                      | .495                     | 0                     | %100                |
| 93  | MP2B         | X         | 0                         | 0                        | 0                     | %100                |
| 94  | MP2B         | Z         | .495                      | .495                     | 0                     | %100                |
| 95  | MP1B         | X         | 0                         | 0                        | 0                     | %100                |
| 96  | MP1B         | Z         | .495                      | .495                     | 0                     | %100                |
| 97  | OVP          | X         | 0                         | 0                        | 0                     | %100                |
| 98  | OVP          | Z         | .405                      | .405                     | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | .599                      | .599                     | 0                     | %100                |
| 101 | M107         | X         | 0                         | 0                        | 0                     | %100                |
| 102 | M107         | Z         | .15                       | .15                      | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | .15                       | .15                      | 0                     | %100                |
| 105 | M117         | X         | 0                         | 0                        | 0                     | %100                |
| 106 | M117         | Z         | .186                      | .186                     | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | .743                      | .743                     | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | .186                      | .186                     | 0                     | %100                |
| 111 | M121         | X         | 0                         | 0                        | 0                     | %100                |
| 112 | M121         | Z         | .374                      | .374                     | 0                     | %100                |
| 113 | M123         | X         | 0                         | 0                        | 0                     | %100                |
| 114 | M123         | Z         | .764                      | .764                     | 0                     | %100                |
| 115 | M125A        | X         | 0                         | 0                        | 0                     | %100                |
| 116 | M125A        | Z         | .764                      | .764                     | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -.07                      | -.07                     | 0                     | %100                |
| 2  | M4           | Z         | .12                       | .12                      | 0                     | %100                |
| 3  | M5           | X         | -.076                     | -.076                    | 0                     | %100                |
| 4  | M5           | Z         | .132                      | .132                     | 0                     | %100                |
| 5  | M11          | X         | -.076                     | -.076                    | 0                     | %100                |
| 6  | M11          | Z         | .132                      | .132                     | 0                     | %100                |
| 7  | M17          | X         | -.305                     | -.305                    | 0                     | %100                |
| 8  | M17          | Z         | .528                      | .528                     | 0                     | %100                |
| 9  | M18          | X         | 0                         | 0                        | 0                     | %100                |
| 10 | M18          | Z         | 0                         | 0                        | 0                     | %100                |
| 11 | M19          | X         | -.228                     | -.228                    | 0                     | %100                |
| 12 | M19          | Z         | .395                      | .395                     | 0                     | %100                |
| 13 | M20          | X         | 0                         | 0                        | 0                     | %100                |
| 14 | M20          | Z         | 0                         | 0                        | 0                     | %100                |
| 15 | M21          | X         | -.228                     | -.228                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 16 | M21          | Z         | .395                      | .395                     | 0                    | %100               |
| 17 | M22          | X         | -.223                     | -.223                    | 0                    | %100               |
| 18 | M22          | Z         | .387                      | .387                     | 0                    | %100               |
| 19 | M23          | X         | 0                         | 0                        | 0                    | %100               |
| 20 | M23          | Z         | 0                         | 0                        | 0                    | %100               |
| 21 | M24          | X         | -.223                     | -.223                    | 0                    | %100               |
| 22 | M24          | Z         | .387                      | .387                     | 0                    | %100               |
| 23 | M25          | X         | -.228                     | -.228                    | 0                    | %100               |
| 24 | M25          | Z         | .395                      | .395                     | 0                    | %100               |
| 25 | M26          | X         | 0                         | 0                        | 0                    | %100               |
| 26 | M26          | Z         | 0                         | 0                        | 0                    | %100               |
| 27 | M27          | X         | -.228                     | -.228                    | 0                    | %100               |
| 28 | M27          | Z         | .395                      | .395                     | 0                    | %100               |
| 29 | M28          | X         | -.054                     | -.054                    | 0                    | %100               |
| 30 | M28          | Z         | .093                      | .093                     | 0                    | %100               |
| 31 | M29          | X         | -.053                     | -.053                    | 0                    | %100               |
| 32 | M29          | Z         | .092                      | .092                     | 0                    | %100               |
| 33 | M30          | X         | -.214                     | -.214                    | 0                    | %100               |
| 34 | M30          | Z         | .371                      | .371                     | 0                    | %100               |
| 35 | M31          | X         | -.214                     | -.214                    | 0                    | %100               |
| 36 | M31          | Z         | .371                      | .371                     | 0                    | %100               |
| 37 | M32          | X         | -.053                     | -.053                    | 0                    | %100               |
| 38 | M32          | Z         | .092                      | .092                     | 0                    | %100               |
| 39 | M33          | X         | -.054                     | -.054                    | 0                    | %100               |
| 40 | M33          | Z         | .093                      | .093                     | 0                    | %100               |
| 41 | M38          | X         | -.087                     | -.087                    | 0                    | %100               |
| 42 | M38          | Z         | .151                      | .151                     | 0                    | %100               |
| 43 | M39          | X         | -.087                     | -.087                    | 0                    | %100               |
| 44 | M39          | Z         | .151                      | .151                     | 0                    | %100               |
| 45 | M44          | X         | -.087                     | -.087                    | 0                    | %100               |
| 46 | M44          | Z         | .151                      | .151                     | 0                    | %100               |
| 47 | M45          | X         | -.087                     | -.087                    | 0                    | %100               |
| 48 | M45          | Z         | .151                      | .151                     | 0                    | %100               |
| 49 | M50          | X         | -.349                     | -.349                    | 0                    | %100               |
| 50 | M50          | Z         | .604                      | .604                     | 0                    | %100               |
| 51 | M51          | X         | -.349                     | -.349                    | 0                    | %100               |
| 52 | M51          | Z         | .604                      | .604                     | 0                    | %100               |
| 53 | MP5A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 54 | MP5A         | Z         | .429                      | .429                     | 0                    | %100               |
| 55 | MP4A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 56 | MP4A         | Z         | .429                      | .429                     | 0                    | %100               |
| 57 | MP2A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 58 | MP2A         | Z         | .429                      | .429                     | 0                    | %100               |
| 59 | MP1A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 60 | MP1A         | Z         | .429                      | .429                     | 0                    | %100               |
| 61 | M122A        | X         | -.469                     | -.469                    | 0                    | %100               |
| 62 | M122A        | Z         | .812                      | .812                     | 0                    | %100               |
| 63 | M123A        | X         | -.469                     | -.469                    | 0                    | %100               |
| 64 | M123A        | Z         | .812                      | .812                     | 0                    | %100               |
| 65 | M128         | X         | -.073                     | -.073                    | 0                    | %100               |
| 66 | M128         | Z         | .126                      | .126                     | 0                    | %100               |
| 67 | M129         | X         | -.072                     | -.072                    | 0                    | %100               |
| 68 | M129         | Z         | .125                      | .125                     | 0                    | %100               |
| 69 | M138         | X         | -.072                     | -.072                    | 0                    | %100               |
| 70 | M138         | Z         | .125                      | .125                     | 0                    | %100               |
| 71 | M141         | X         | -.073                     | -.073                    | 0                    | %100               |
| 72 | M141         | Z         | .126                      | .126                     | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 73  | M150         | X         | -.291                     | -.291                    | 0                     | %100                |
| 74  | M150         | Z         | .503                      | .503                     | 0                     | %100                |
| 75  | M153         | X         | -.291                     | -.291                    | 0                     | %100                |
| 76  | M153         | Z         | .503                      | .503                     | 0                     | %100                |
| 77  | M98A         | X         | -.07                      | -.07                     | 0                     | %100                |
| 78  | M98A         | Z         | .12                       | .12                      | 0                     | %100                |
| 79  | M99          | X         | -.278                     | -.278                    | 0                     | %100                |
| 80  | M99          | Z         | .482                      | .482                     | 0                     | %100                |
| 81  | MP4C         | X         | -.248                     | -.248                    | 0                     | %100                |
| 82  | MP4C         | Z         | .429                      | .429                     | 0                     | %100                |
| 83  | MP3C         | X         | -.248                     | -.248                    | 0                     | %100                |
| 84  | MP3C         | Z         | .429                      | .429                     | 0                     | %100                |
| 85  | MP2C         | X         | -.248                     | -.248                    | 0                     | %100                |
| 86  | MP2C         | Z         | .429                      | .429                     | 0                     | %100                |
| 87  | MP1C         | X         | -.248                     | -.248                    | 0                     | %100                |
| 88  | MP1C         | Z         | .429                      | .429                     | 0                     | %100                |
| 89  | MP4B         | X         | -.248                     | -.248                    | 0                     | %100                |
| 90  | MP4B         | Z         | .429                      | .429                     | 0                     | %100                |
| 91  | MP3B         | X         | -.248                     | -.248                    | 0                     | %100                |
| 92  | MP3B         | Z         | .429                      | .429                     | 0                     | %100                |
| 93  | MP2B         | X         | -.248                     | -.248                    | 0                     | %100                |
| 94  | MP2B         | Z         | .429                      | .429                     | 0                     | %100                |
| 95  | MP1B         | X         | -.248                     | -.248                    | 0                     | %100                |
| 96  | MP1B         | Z         | .429                      | .429                     | 0                     | %100                |
| 97  | OVP          | X         | -.202                     | -.202                    | 0                     | %100                |
| 98  | OVP          | Z         | .351                      | .351                     | 0                     | %100                |
| 99  | M100         | X         | -.225                     | -.225                    | 0                     | %100                |
| 100 | M100         | Z         | .389                      | .389                     | 0                     | %100                |
| 101 | M107         | X         | -.225                     | -.225                    | 0                     | %100                |
| 102 | M107         | Z         | .389                      | .389                     | 0                     | %100                |
| 103 | M114         | X         | 0                         | 0                        | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | -.278                     | -.278                    | 0                     | %100                |
| 106 | M117         | Z         | .482                      | .482                     | 0                     | %100                |
| 107 | M118         | X         | -.278                     | -.278                    | 0                     | %100                |
| 108 | M118         | Z         | .482                      | .482                     | 0                     | %100                |
| 109 | M119         | X         | 0                         | 0                        | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | -.252                     | -.252                    | 0                     | %100                |
| 112 | M121         | Z         | .436                      | .436                     | 0                     | %100                |
| 113 | M123         | X         | -.252                     | -.252                    | 0                     | %100                |
| 114 | M123         | Z         | .436                      | .436                     | 0                     | %100                |
| 115 | M125A        | X         | -.447                     | -.447                    | 0                     | %100                |
| 116 | M125A        | Z         | .774                      | .774                     | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | -.361                     | -.361                    | 0                     | %100                |
| 2 | M4           | Z         | .209                      | .209                     | 0                     | %100                |
| 3 | M5           | X         | -.396                     | -.396                    | 0                     | %100                |
| 4 | M5           | Z         | .228                      | .228                     | 0                     | %100                |
| 5 | M11          | X         | 0                         | 0                        | 0                     | %100                |
| 6 | M11          | Z         | 0                         | 0                        | 0                     | %100                |
| 7 | M17          | X         | -.396                     | -.396                    | 0                     | %100                |
| 8 | M17          | Z         | .228                      | .228                     | 0                     | %100                |
| 9 | M18          | X         | -.271                     | -.271                    | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 10 | M18          | Z         | .156                      | .156                     | 0                    | %100               |
| 11 | M19          | X         | -.527                     | -.527                    | 0                    | %100               |
| 12 | M19          | Z         | .304                      | .304                     | 0                    | %100               |
| 13 | M20          | X         | -.132                     | -.132                    | 0                    | %100               |
| 14 | M20          | Z         | .076                      | .076                     | 0                    | %100               |
| 15 | M21          | X         | -.132                     | -.132                    | 0                    | %100               |
| 16 | M21          | Z         | .076                      | .076                     | 0                    | %100               |
| 17 | M22          | X         | -.516                     | -.516                    | 0                    | %100               |
| 18 | M22          | Z         | .298                      | .298                     | 0                    | %100               |
| 19 | M23          | X         | -.129                     | -.129                    | 0                    | %100               |
| 20 | M23          | Z         | .074                      | .074                     | 0                    | %100               |
| 21 | M24          | X         | -.129                     | -.129                    | 0                    | %100               |
| 22 | M24          | Z         | .074                      | .074                     | 0                    | %100               |
| 23 | M25          | X         | -.527                     | -.527                    | 0                    | %100               |
| 24 | M25          | Z         | .304                      | .304                     | 0                    | %100               |
| 25 | M26          | X         | -.132                     | -.132                    | 0                    | %100               |
| 26 | M26          | Z         | .076                      | .076                     | 0                    | %100               |
| 27 | M27          | X         | -.132                     | -.132                    | 0                    | %100               |
| 28 | M27          | Z         | .076                      | .076                     | 0                    | %100               |
| 29 | M28          | X         | -.279                     | -.279                    | 0                    | %100               |
| 30 | M28          | Z         | .161                      | .161                     | 0                    | %100               |
| 31 | M29          | X         | 0                         | 0                        | 0                    | %100               |
| 32 | M29          | Z         | 0                         | 0                        | 0                    | %100               |
| 33 | M30          | X         | -.278                     | -.278                    | 0                    | %100               |
| 34 | M30          | Z         | .16                       | .16                      | 0                    | %100               |
| 35 | M31          | X         | -.279                     | -.279                    | 0                    | %100               |
| 36 | M31          | Z         | .161                      | .161                     | 0                    | %100               |
| 37 | M32          | X         | -.278                     | -.278                    | 0                    | %100               |
| 38 | M32          | Z         | .16                       | .16                      | 0                    | %100               |
| 39 | M33          | X         | 0                         | 0                        | 0                    | %100               |
| 40 | M33          | Z         | 0                         | 0                        | 0                    | %100               |
| 41 | M38          | X         | -.453                     | -.453                    | 0                    | %100               |
| 42 | M38          | Z         | .262                      | .262                     | 0                    | %100               |
| 43 | M39          | X         | -.453                     | -.453                    | 0                    | %100               |
| 44 | M39          | Z         | .262                      | .262                     | 0                    | %100               |
| 45 | M44          | X         | 0                         | 0                        | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | 0                         | 0                        | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | -.453                     | -.453                    | 0                    | %100               |
| 50 | M50          | Z         | .262                      | .262                     | 0                    | %100               |
| 51 | M51          | X         | -.453                     | -.453                    | 0                    | %100               |
| 52 | M51          | Z         | .262                      | .262                     | 0                    | %100               |
| 53 | MP5A         | X         | -.429                     | -.429                    | 0                    | %100               |
| 54 | MP5A         | Z         | .248                      | .248                     | 0                    | %100               |
| 55 | MP4A         | X         | -.429                     | -.429                    | 0                    | %100               |
| 56 | MP4A         | Z         | .248                      | .248                     | 0                    | %100               |
| 57 | MP2A         | X         | -.429                     | -.429                    | 0                    | %100               |
| 58 | MP2A         | Z         | .248                      | .248                     | 0                    | %100               |
| 59 | MP1A         | X         | -.429                     | -.429                    | 0                    | %100               |
| 60 | MP1A         | Z         | .248                      | .248                     | 0                    | %100               |
| 61 | M122A        | X         | -.271                     | -.271                    | 0                    | %100               |
| 62 | M122A        | Z         | .156                      | .156                     | 0                    | %100               |
| 63 | M123A        | X         | -1.083                    | -1.083                   | 0                    | %100               |
| 64 | M123A        | Z         | .625                      | .625                     | 0                    | %100               |
| 65 | M128         | X         | -.378                     | -.378                    | 0                    | %100               |
| 66 | M128         | Z         | .218                      | .218                     | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 67  | M129         | X         | -.377                     | -.377                    | 0                     | %100                |
| 68  | M129         | Z         | .218                      | .218                     | 0                     | %100                |
| 69  | M138         | X         | -1e-6                     | -1e-6                    | 0                     | %100                |
| 70  | M138         | Z         | 0                         | 0                        | 0                     | %100                |
| 71  | M141         | X         | -1e-6                     | -1e-6                    | 0                     | %100                |
| 72  | M141         | Z         | 0                         | 0                        | 0                     | %100                |
| 73  | M150         | X         | -.377                     | -.377                    | 0                     | %100                |
| 74  | M150         | Z         | .218                      | .218                     | 0                     | %100                |
| 75  | M153         | X         | -.378                     | -.378                    | 0                     | %100                |
| 76  | M153         | Z         | .218                      | .218                     | 0                     | %100                |
| 77  | M98A         | X         | 0                         | 0                        | 0                     | %100                |
| 78  | M98A         | Z         | 0                         | 0                        | 0                     | %100                |
| 79  | M99          | X         | -.361                     | -.361                    | 0                     | %100                |
| 80  | M99          | Z         | .209                      | .209                     | 0                     | %100                |
| 81  | MP4C         | X         | -.429                     | -.429                    | 0                     | %100                |
| 82  | MP4C         | Z         | .248                      | .248                     | 0                     | %100                |
| 83  | MP3C         | X         | -.429                     | -.429                    | 0                     | %100                |
| 84  | MP3C         | Z         | .248                      | .248                     | 0                     | %100                |
| 85  | MP2C         | X         | -.429                     | -.429                    | 0                     | %100                |
| 86  | MP2C         | Z         | .248                      | .248                     | 0                     | %100                |
| 87  | MP1C         | X         | -.429                     | -.429                    | 0                     | %100                |
| 88  | MP1C         | Z         | .248                      | .248                     | 0                     | %100                |
| 89  | MP4B         | X         | -.429                     | -.429                    | 0                     | %100                |
| 90  | MP4B         | Z         | .248                      | .248                     | 0                     | %100                |
| 91  | MP3B         | X         | -.429                     | -.429                    | 0                     | %100                |
| 92  | MP3B         | Z         | .248                      | .248                     | 0                     | %100                |
| 93  | MP2B         | X         | -.429                     | -.429                    | 0                     | %100                |
| 94  | MP2B         | Z         | .248                      | .248                     | 0                     | %100                |
| 95  | MP1B         | X         | -.429                     | -.429                    | 0                     | %100                |
| 96  | MP1B         | Z         | .248                      | .248                     | 0                     | %100                |
| 97  | OVP          | X         | -.351                     | -.351                    | 0                     | %100                |
| 98  | OVP          | Z         | .202                      | .202                     | 0                     | %100                |
| 99  | M100         | X         | -.13                      | -.13                     | 0                     | %100                |
| 100 | M100         | Z         | .075                      | .075                     | 0                     | %100                |
| 101 | M107         | X         | -.519                     | -.519                    | 0                     | %100                |
| 102 | M107         | Z         | .3                        | .3                       | 0                     | %100                |
| 103 | M114         | X         | -.13                      | -.13                     | 0                     | %100                |
| 104 | M114         | Z         | .075                      | .075                     | 0                     | %100                |
| 105 | M117         | X         | -.643                     | -.643                    | 0                     | %100                |
| 106 | M117         | Z         | .371                      | .371                     | 0                     | %100                |
| 107 | M118         | X         | -.161                     | -.161                    | 0                     | %100                |
| 108 | M118         | Z         | .093                      | .093                     | 0                     | %100                |
| 109 | M119         | X         | -.161                     | -.161                    | 0                     | %100                |
| 110 | M119         | Z         | .093                      | .093                     | 0                     | %100                |
| 111 | M121         | X         | -.661                     | -.661                    | 0                     | %100                |
| 112 | M121         | Z         | .382                      | .382                     | 0                     | %100                |
| 113 | M123         | X         | -.324                     | -.324                    | 0                     | %100                |
| 114 | M123         | Z         | .187                      | .187                     | 0                     | %100                |
| 115 | M125A        | X         | -.661                     | -.661                    | 0                     | %100                |
| 116 | M125A        | Z         | .382                      | .382                     | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1 | M4           | X         | -.556                     | -.556                    | 0                     | %100                |
| 2 | M4           | Z         | 0                         | 0                        | 0                     | %100                |
| 3 | M5           | X         | -.609                     | -.609                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 4  | M5           | Z         | 0                         | 0                        | 0                    | %100               |
| 5  | M11          | X         | -.152                     | -.152                    | 0                    | %100               |
| 6  | M11          | Z         | 0                         | 0                        | 0                    | %100               |
| 7  | M17          | X         | -.152                     | -.152                    | 0                    | %100               |
| 8  | M17          | Z         | 0                         | 0                        | 0                    | %100               |
| 9  | M18          | X         | -.938                     | -.938                    | 0                    | %100               |
| 10 | M18          | Z         | 0                         | 0                        | 0                    | %100               |
| 11 | M19          | X         | -.456                     | -.456                    | 0                    | %100               |
| 12 | M19          | Z         | 0                         | 0                        | 0                    | %100               |
| 13 | M20          | X         | -.456                     | -.456                    | 0                    | %100               |
| 14 | M20          | Z         | 0                         | 0                        | 0                    | %100               |
| 15 | M21          | X         | 0                         | 0                        | 0                    | %100               |
| 16 | M21          | Z         | 0                         | 0                        | 0                    | %100               |
| 17 | M22          | X         | -.447                     | -.447                    | 0                    | %100               |
| 18 | M22          | Z         | 0                         | 0                        | 0                    | %100               |
| 19 | M23          | X         | -.447                     | -.447                    | 0                    | %100               |
| 20 | M23          | Z         | 0                         | 0                        | 0                    | %100               |
| 21 | M24          | X         | 0                         | 0                        | 0                    | %100               |
| 22 | M24          | Z         | 0                         | 0                        | 0                    | %100               |
| 23 | M25          | X         | -.456                     | -.456                    | 0                    | %100               |
| 24 | M25          | Z         | 0                         | 0                        | 0                    | %100               |
| 25 | M26          | X         | -.456                     | -.456                    | 0                    | %100               |
| 26 | M26          | Z         | 0                         | 0                        | 0                    | %100               |
| 27 | M27          | X         | 0                         | 0                        | 0                    | %100               |
| 28 | M27          | Z         | 0                         | 0                        | 0                    | %100               |
| 29 | M28          | X         | -.428                     | -.428                    | 0                    | %100               |
| 30 | M28          | Z         | 0                         | 0                        | 0                    | %100               |
| 31 | M29          | X         | -.108                     | -.108                    | 0                    | %100               |
| 32 | M29          | Z         | 0                         | 0                        | 0                    | %100               |
| 33 | M30          | X         | -.107                     | -.107                    | 0                    | %100               |
| 34 | M30          | Z         | 0                         | 0                        | 0                    | %100               |
| 35 | M31          | X         | -.108                     | -.108                    | 0                    | %100               |
| 36 | M31          | Z         | 0                         | 0                        | 0                    | %100               |
| 37 | M32          | X         | -.428                     | -.428                    | 0                    | %100               |
| 38 | M32          | Z         | 0                         | 0                        | 0                    | %100               |
| 39 | M33          | X         | -.107                     | -.107                    | 0                    | %100               |
| 40 | M33          | Z         | 0                         | 0                        | 0                    | %100               |
| 41 | M38          | X         | -.698                     | -.698                    | 0                    | %100               |
| 42 | M38          | Z         | 0                         | 0                        | 0                    | %100               |
| 43 | M39          | X         | -.698                     | -.698                    | 0                    | %100               |
| 44 | M39          | Z         | 0                         | 0                        | 0                    | %100               |
| 45 | M44          | X         | -.174                     | -.174                    | 0                    | %100               |
| 46 | M44          | Z         | 0                         | 0                        | 0                    | %100               |
| 47 | M45          | X         | -.174                     | -.174                    | 0                    | %100               |
| 48 | M45          | Z         | 0                         | 0                        | 0                    | %100               |
| 49 | M50          | X         | -.174                     | -.174                    | 0                    | %100               |
| 50 | M50          | Z         | 0                         | 0                        | 0                    | %100               |
| 51 | M51          | X         | -.174                     | -.174                    | 0                    | %100               |
| 52 | M51          | Z         | 0                         | 0                        | 0                    | %100               |
| 53 | MP5A         | X         | -.495                     | -.495                    | 0                    | %100               |
| 54 | MP5A         | Z         | 0                         | 0                        | 0                    | %100               |
| 55 | MP4A         | X         | -.495                     | -.495                    | 0                    | %100               |
| 56 | MP4A         | Z         | 0                         | 0                        | 0                    | %100               |
| 57 | MP2A         | X         | -.495                     | -.495                    | 0                    | %100               |
| 58 | MP2A         | Z         | 0                         | 0                        | 0                    | %100               |
| 59 | MP1A         | X         | -.495                     | -.495                    | 0                    | %100               |
| 60 | MP1A         | Z         | 0                         | 0                        | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 61  | M122A        | X         | 0                         | 0                        | 0                     | %100                |
| 62  | M122A        | Z         | 0                         | 0                        | 0                     | %100                |
| 63  | M123A        | X         | -.938                     | -.938                    | 0                     | %100                |
| 64  | M123A        | Z         | 0                         | 0                        | 0                     | %100                |
| 65  | M128         | X         | -.581                     | -.581                    | 0                     | %100                |
| 66  | M128         | Z         | 0                         | 0                        | 0                     | %100                |
| 67  | M129         | X         | -.581                     | -.581                    | 0                     | %100                |
| 68  | M129         | Z         | 0                         | 0                        | 0                     | %100                |
| 69  | M138         | X         | -.146                     | -.146                    | 0                     | %100                |
| 70  | M138         | Z         | 0                         | 0                        | 0                     | %100                |
| 71  | M141         | X         | -.145                     | -.145                    | 0                     | %100                |
| 72  | M141         | Z         | 0                         | 0                        | 0                     | %100                |
| 73  | M150         | X         | -.145                     | -.145                    | 0                     | %100                |
| 74  | M150         | Z         | 0                         | 0                        | 0                     | %100                |
| 75  | M153         | X         | -.146                     | -.146                    | 0                     | %100                |
| 76  | M153         | Z         | 0                         | 0                        | 0                     | %100                |
| 77  | M98A         | X         | -.139                     | -.139                    | 0                     | %100                |
| 78  | M98A         | Z         | 0                         | 0                        | 0                     | %100                |
| 79  | M99          | X         | -.139                     | -.139                    | 0                     | %100                |
| 80  | M99          | Z         | 0                         | 0                        | 0                     | %100                |
| 81  | MP4C         | X         | -.495                     | -.495                    | 0                     | %100                |
| 82  | MP4C         | Z         | 0                         | 0                        | 0                     | %100                |
| 83  | MP3C         | X         | -.495                     | -.495                    | 0                     | %100                |
| 84  | MP3C         | Z         | 0                         | 0                        | 0                     | %100                |
| 85  | MP2C         | X         | -.495                     | -.495                    | 0                     | %100                |
| 86  | MP2C         | Z         | 0                         | 0                        | 0                     | %100                |
| 87  | MP1C         | X         | -.495                     | -.495                    | 0                     | %100                |
| 88  | MP1C         | Z         | 0                         | 0                        | 0                     | %100                |
| 89  | MP4B         | X         | -.495                     | -.495                    | 0                     | %100                |
| 90  | MP4B         | Z         | 0                         | 0                        | 0                     | %100                |
| 91  | MP3B         | X         | -.495                     | -.495                    | 0                     | %100                |
| 92  | MP3B         | Z         | 0                         | 0                        | 0                     | %100                |
| 93  | MP2B         | X         | -.495                     | -.495                    | 0                     | %100                |
| 94  | MP2B         | Z         | 0                         | 0                        | 0                     | %100                |
| 95  | MP1B         | X         | -.495                     | -.495                    | 0                     | %100                |
| 96  | MP1B         | Z         | 0                         | 0                        | 0                     | %100                |
| 97  | OVP          | X         | -.405                     | -.405                    | 0                     | %100                |
| 98  | OVP          | Z         | 0                         | 0                        | 0                     | %100                |
| 99  | M100         | X         | 0                         | 0                        | 0                     | %100                |
| 100 | M100         | Z         | 0                         | 0                        | 0                     | %100                |
| 101 | M107         | X         | -.45                      | -.45                     | 0                     | %100                |
| 102 | M107         | Z         | 0                         | 0                        | 0                     | %100                |
| 103 | M114         | X         | -.45                      | -.45                     | 0                     | %100                |
| 104 | M114         | Z         | 0                         | 0                        | 0                     | %100                |
| 105 | M117         | X         | -.557                     | -.557                    | 0                     | %100                |
| 106 | M117         | Z         | 0                         | 0                        | 0                     | %100                |
| 107 | M118         | X         | 0                         | 0                        | 0                     | %100                |
| 108 | M118         | Z         | 0                         | 0                        | 0                     | %100                |
| 109 | M119         | X         | -.557                     | -.557                    | 0                     | %100                |
| 110 | M119         | Z         | 0                         | 0                        | 0                     | %100                |
| 111 | M121         | X         | -.894                     | -.894                    | 0                     | %100                |
| 112 | M121         | Z         | 0                         | 0                        | 0                     | %100                |
| 113 | M123         | X         | -.504                     | -.504                    | 0                     | %100                |
| 114 | M123         | Z         | 0                         | 0                        | 0                     | %100                |
| 115 | M125A        | X         | -.504                     | -.504                    | 0                     | %100                |
| 116 | M125A        | Z         | 0                         | 0                        | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -361                      | -361                     | 0                     | %100                |
| 2  | M4           | Z         | -209                      | -209                     | 0                     | %100                |
| 3  | M5           | X         | -396                      | -396                     | 0                     | %100                |
| 4  | M5           | Z         | -228                      | -228                     | 0                     | %100                |
| 5  | M11          | X         | -396                      | -396                     | 0                     | %100                |
| 6  | M11          | Z         | -228                      | -228                     | 0                     | %100                |
| 7  | M17          | X         | 0                         | 0                        | 0                     | %100                |
| 8  | M17          | Z         | 0                         | 0                        | 0                     | %100                |
| 9  | M18          | X         | -1.083                    | -1.083                   | 0                     | %100                |
| 10 | M18          | Z         | -625                      | -625                     | 0                     | %100                |
| 11 | M19          | X         | -132                      | -132                     | 0                     | %100                |
| 12 | M19          | Z         | -076                      | -076                     | 0                     | %100                |
| 13 | M20          | X         | -527                      | -527                     | 0                     | %100                |
| 14 | M20          | Z         | -304                      | -304                     | 0                     | %100                |
| 15 | M21          | X         | -132                      | -132                     | 0                     | %100                |
| 16 | M21          | Z         | -076                      | -076                     | 0                     | %100                |
| 17 | M22          | X         | -129                      | -129                     | 0                     | %100                |
| 18 | M22          | Z         | -074                      | -074                     | 0                     | %100                |
| 19 | M23          | X         | -516                      | -516                     | 0                     | %100                |
| 20 | M23          | Z         | -298                      | -298                     | 0                     | %100                |
| 21 | M24          | X         | -129                      | -129                     | 0                     | %100                |
| 22 | M24          | Z         | -074                      | -074                     | 0                     | %100                |
| 23 | M25          | X         | -132                      | -132                     | 0                     | %100                |
| 24 | M25          | Z         | -076                      | -076                     | 0                     | %100                |
| 25 | M26          | X         | -527                      | -527                     | 0                     | %100                |
| 26 | M26          | Z         | -304                      | -304                     | 0                     | %100                |
| 27 | M27          | X         | -132                      | -132                     | 0                     | %100                |
| 28 | M27          | Z         | -076                      | -076                     | 0                     | %100                |
| 29 | M28          | X         | -278                      | -278                     | 0                     | %100                |
| 30 | M28          | Z         | -16                       | -16                      | 0                     | %100                |
| 31 | M29          | X         | -279                      | -279                     | 0                     | %100                |
| 32 | M29          | Z         | -161                      | -161                     | 0                     | %100                |
| 33 | M30          | X         | 0                         | 0                        | 0                     | %100                |
| 34 | M30          | Z         | 0                         | 0                        | 0                     | %100                |
| 35 | M31          | X         | 0                         | 0                        | 0                     | %100                |
| 36 | M31          | Z         | 0                         | 0                        | 0                     | %100                |
| 37 | M32          | X         | -279                      | -279                     | 0                     | %100                |
| 38 | M32          | Z         | -161                      | -161                     | 0                     | %100                |
| 39 | M33          | X         | -278                      | -278                     | 0                     | %100                |
| 40 | M33          | Z         | -16                       | -16                      | 0                     | %100                |
| 41 | M38          | X         | -453                      | -453                     | 0                     | %100                |
| 42 | M38          | Z         | -262                      | -262                     | 0                     | %100                |
| 43 | M39          | X         | -453                      | -453                     | 0                     | %100                |
| 44 | M39          | Z         | -262                      | -262                     | 0                     | %100                |
| 45 | M44          | X         | -453                      | -453                     | 0                     | %100                |
| 46 | M44          | Z         | -262                      | -262                     | 0                     | %100                |
| 47 | M45          | X         | -453                      | -453                     | 0                     | %100                |
| 48 | M45          | Z         | -262                      | -262                     | 0                     | %100                |
| 49 | M50          | X         | 0                         | 0                        | 0                     | %100                |
| 50 | M50          | Z         | 0                         | 0                        | 0                     | %100                |
| 51 | M51          | X         | 0                         | 0                        | 0                     | %100                |
| 52 | M51          | Z         | 0                         | 0                        | 0                     | %100                |
| 53 | MP5A         | X         | -429                      | -429                     | 0                     | %100                |
| 54 | MP5A         | Z         | -248                      | -248                     | 0                     | %100                |
| 55 | MP4A         | X         | -429                      | -429                     | 0                     | %100                |
| 56 | MP4A         | Z         | -248                      | -248                     | 0                     | %100                |
| 57 | MP2A         | X         | -429                      | -429                     | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 58  | MP2A         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 59  | MP1A         | X         | -.429                     | -.429                    | 0                    | %100               |
| 60  | MP1A         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 61  | M122A        | X         | -.271                     | -.271                    | 0                    | %100               |
| 62  | M122A        | Z         | -.156                     | -.156                    | 0                    | %100               |
| 63  | M123A        | X         | -.271                     | -.271                    | 0                    | %100               |
| 64  | M123A        | Z         | -.156                     | -.156                    | 0                    | %100               |
| 65  | M128         | X         | -.377                     | -.377                    | 0                    | %100               |
| 66  | M128         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 67  | M129         | X         | -.378                     | -.378                    | 0                    | %100               |
| 68  | M129         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 69  | M138         | X         | -.378                     | -.378                    | 0                    | %100               |
| 70  | M138         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 71  | M141         | X         | -.377                     | -.377                    | 0                    | %100               |
| 72  | M141         | Z         | -.218                     | -.218                    | 0                    | %100               |
| 73  | M150         | X         | -1e-6                     | -1e-6                    | 0                    | %100               |
| 74  | M150         | Z         | 0                         | 0                        | 0                    | %100               |
| 75  | M153         | X         | -1e-6                     | -1e-6                    | 0                    | %100               |
| 76  | M153         | Z         | 0                         | 0                        | 0                    | %100               |
| 77  | M98A         | X         | -.361                     | -.361                    | 0                    | %100               |
| 78  | M98A         | Z         | -.209                     | -.209                    | 0                    | %100               |
| 79  | M99          | X         | 0                         | 0                        | 0                    | %100               |
| 80  | M99          | Z         | 0                         | 0                        | 0                    | %100               |
| 81  | MP4C         | X         | -.429                     | -.429                    | 0                    | %100               |
| 82  | MP4C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 83  | MP3C         | X         | -.429                     | -.429                    | 0                    | %100               |
| 84  | MP3C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 85  | MP2C         | X         | -.429                     | -.429                    | 0                    | %100               |
| 86  | MP2C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 87  | MP1C         | X         | -.429                     | -.429                    | 0                    | %100               |
| 88  | MP1C         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 89  | MP4B         | X         | -.429                     | -.429                    | 0                    | %100               |
| 90  | MP4B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 91  | MP3B         | X         | -.429                     | -.429                    | 0                    | %100               |
| 92  | MP3B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 93  | MP2B         | X         | -.429                     | -.429                    | 0                    | %100               |
| 94  | MP2B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 95  | MP1B         | X         | -.429                     | -.429                    | 0                    | %100               |
| 96  | MP1B         | Z         | -.248                     | -.248                    | 0                    | %100               |
| 97  | OVP          | X         | -.351                     | -.351                    | 0                    | %100               |
| 98  | OVP          | Z         | -.202                     | -.202                    | 0                    | %100               |
| 99  | M100         | X         | -.13                      | -.13                     | 0                    | %100               |
| 100 | M100         | Z         | -.075                     | -.075                    | 0                    | %100               |
| 101 | M107         | X         | -.13                      | -.13                     | 0                    | %100               |
| 102 | M107         | Z         | -.075                     | -.075                    | 0                    | %100               |
| 103 | M114         | X         | -.519                     | -.519                    | 0                    | %100               |
| 104 | M114         | Z         | -.3                       | -.3                      | 0                    | %100               |
| 105 | M117         | X         | -.161                     | -.161                    | 0                    | %100               |
| 106 | M117         | Z         | -.093                     | -.093                    | 0                    | %100               |
| 107 | M118         | X         | -.161                     | -.161                    | 0                    | %100               |
| 108 | M118         | Z         | -.093                     | -.093                    | 0                    | %100               |
| 109 | M119         | X         | -.643                     | -.643                    | 0                    | %100               |
| 110 | M119         | Z         | -.371                     | -.371                    | 0                    | %100               |
| 111 | M121         | X         | -.661                     | -.661                    | 0                    | %100               |
| 112 | M121         | Z         | -.382                     | -.382                    | 0                    | %100               |
| 113 | M123         | X         | -.661                     | -.661                    | 0                    | %100               |
| 114 | M123         | Z         | -.382                     | -.382                    | 0                    | %100               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 115 | M125A        | X         | -.324                     | -.324                    | 0                     | %100                |
| 116 | M125A        | Z         | -.187                     | -.187                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M4           | X         | -.07                      | -.07                     | 0                     | %100                |
| 2  | M4           | Z         | -.12                      | -.12                     | 0                     | %100                |
| 3  | M5           | X         | -.076                     | -.076                    | 0                     | %100                |
| 4  | M5           | Z         | -.132                     | -.132                    | 0                     | %100                |
| 5  | M11          | X         | -.305                     | -.305                    | 0                     | %100                |
| 6  | M11          | Z         | -.528                     | -.528                    | 0                     | %100                |
| 7  | M17          | X         | -.076                     | -.076                    | 0                     | %100                |
| 8  | M17          | Z         | -.132                     | -.132                    | 0                     | %100                |
| 9  | M18          | X         | -.469                     | -.469                    | 0                     | %100                |
| 10 | M18          | Z         | -.812                     | -.812                    | 0                     | %100                |
| 11 | M19          | X         | 0                         | 0                        | 0                     | %100                |
| 12 | M19          | Z         | 0                         | 0                        | 0                     | %100                |
| 13 | M20          | X         | -.228                     | -.228                    | 0                     | %100                |
| 14 | M20          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 15 | M21          | X         | -.228                     | -.228                    | 0                     | %100                |
| 16 | M21          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 17 | M22          | X         | 0                         | 0                        | 0                     | %100                |
| 18 | M22          | Z         | 0                         | 0                        | 0                     | %100                |
| 19 | M23          | X         | -.223                     | -.223                    | 0                     | %100                |
| 20 | M23          | Z         | -.387                     | -.387                    | 0                     | %100                |
| 21 | M24          | X         | -.223                     | -.223                    | 0                     | %100                |
| 22 | M24          | Z         | -.387                     | -.387                    | 0                     | %100                |
| 23 | M25          | X         | 0                         | 0                        | 0                     | %100                |
| 24 | M25          | Z         | 0                         | 0                        | 0                     | %100                |
| 25 | M26          | X         | -.228                     | -.228                    | 0                     | %100                |
| 26 | M26          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 27 | M27          | X         | -.228                     | -.228                    | 0                     | %100                |
| 28 | M27          | Z         | -.395                     | -.395                    | 0                     | %100                |
| 29 | M28          | X         | -.053                     | -.053                    | 0                     | %100                |
| 30 | M28          | Z         | -.092                     | -.092                    | 0                     | %100                |
| 31 | M29          | X         | -.214                     | -.214                    | 0                     | %100                |
| 32 | M29          | Z         | -.371                     | -.371                    | 0                     | %100                |
| 33 | M30          | X         | -.054                     | -.054                    | 0                     | %100                |
| 34 | M30          | Z         | -.093                     | -.093                    | 0                     | %100                |
| 35 | M31          | X         | -.053                     | -.053                    | 0                     | %100                |
| 36 | M31          | Z         | -.092                     | -.092                    | 0                     | %100                |
| 37 | M32          | X         | -.054                     | -.054                    | 0                     | %100                |
| 38 | M32          | Z         | -.093                     | -.093                    | 0                     | %100                |
| 39 | M33          | X         | -.214                     | -.214                    | 0                     | %100                |
| 40 | M33          | Z         | -.371                     | -.371                    | 0                     | %100                |
| 41 | M38          | X         | -.087                     | -.087                    | 0                     | %100                |
| 42 | M38          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 43 | M39          | X         | -.087                     | -.087                    | 0                     | %100                |
| 44 | M39          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 45 | M44          | X         | -.349                     | -.349                    | 0                     | %100                |
| 46 | M44          | Z         | -.604                     | -.604                    | 0                     | %100                |
| 47 | M45          | X         | -.349                     | -.349                    | 0                     | %100                |
| 48 | M45          | Z         | -.604                     | -.604                    | 0                     | %100                |
| 49 | M50          | X         | -.087                     | -.087                    | 0                     | %100                |
| 50 | M50          | Z         | -.151                     | -.151                    | 0                     | %100                |
| 51 | M51          | X         | -.087                     | -.087                    | 0                     | %100                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 52  | M51          | Z         | -.151                     | -.151                    | 0                    | %100               |
| 53  | MP5A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 54  | MP5A         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 55  | MP4A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 56  | MP4A         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 57  | MP2A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 58  | MP2A         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 59  | MP1A         | X         | -.248                     | -.248                    | 0                    | %100               |
| 60  | MP1A         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 61  | M122A        | X         | -.469                     | -.469                    | 0                    | %100               |
| 62  | M122A        | Z         | -.812                     | -.812                    | 0                    | %100               |
| 63  | M123A        | X         | 0                         | 0                        | 0                    | %100               |
| 64  | M123A        | Z         | 0                         | 0                        | 0                    | %100               |
| 65  | M128         | X         | -.072                     | -.072                    | 0                    | %100               |
| 66  | M128         | Z         | -.125                     | -.125                    | 0                    | %100               |
| 67  | M129         | X         | -.073                     | -.073                    | 0                    | %100               |
| 68  | M129         | Z         | -.126                     | -.126                    | 0                    | %100               |
| 69  | M138         | X         | -.291                     | -.291                    | 0                    | %100               |
| 70  | M138         | Z         | -.503                     | -.503                    | 0                    | %100               |
| 71  | M141         | X         | -.291                     | -.291                    | 0                    | %100               |
| 72  | M141         | Z         | -.503                     | -.503                    | 0                    | %100               |
| 73  | M150         | X         | -.073                     | -.073                    | 0                    | %100               |
| 74  | M150         | Z         | -.126                     | -.126                    | 0                    | %100               |
| 75  | M153         | X         | -.072                     | -.072                    | 0                    | %100               |
| 76  | M153         | Z         | -.125                     | -.125                    | 0                    | %100               |
| 77  | M98A         | X         | -.278                     | -.278                    | 0                    | %100               |
| 78  | M98A         | Z         | -.482                     | -.482                    | 0                    | %100               |
| 79  | M99          | X         | -.07                      | -.07                     | 0                    | %100               |
| 80  | M99          | Z         | -.12                      | -.12                     | 0                    | %100               |
| 81  | MP4C         | X         | -.248                     | -.248                    | 0                    | %100               |
| 82  | MP4C         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 83  | MP3C         | X         | -.248                     | -.248                    | 0                    | %100               |
| 84  | MP3C         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 85  | MP2C         | X         | -.248                     | -.248                    | 0                    | %100               |
| 86  | MP2C         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 87  | MP1C         | X         | -.248                     | -.248                    | 0                    | %100               |
| 88  | MP1C         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 89  | MP4B         | X         | -.248                     | -.248                    | 0                    | %100               |
| 90  | MP4B         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 91  | MP3B         | X         | -.248                     | -.248                    | 0                    | %100               |
| 92  | MP3B         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 93  | MP2B         | X         | -.248                     | -.248                    | 0                    | %100               |
| 94  | MP2B         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 95  | MP1B         | X         | -.248                     | -.248                    | 0                    | %100               |
| 96  | MP1B         | Z         | -.429                     | -.429                    | 0                    | %100               |
| 97  | OVP          | X         | -.202                     | -.202                    | 0                    | %100               |
| 98  | OVP          | Z         | -.351                     | -.351                    | 0                    | %100               |
| 99  | M100         | X         | -.225                     | -.225                    | 0                    | %100               |
| 100 | M100         | Z         | -.389                     | -.389                    | 0                    | %100               |
| 101 | M107         | X         | 0                         | 0                        | 0                    | %100               |
| 102 | M107         | Z         | 0                         | 0                        | 0                    | %100               |
| 103 | M114         | X         | -.225                     | -.225                    | 0                    | %100               |
| 104 | M114         | Z         | -.389                     | -.389                    | 0                    | %100               |
| 105 | M117         | X         | 0                         | 0                        | 0                    | %100               |
| 106 | M117         | Z         | 0                         | 0                        | 0                    | %100               |
| 107 | M118         | X         | -.278                     | -.278                    | 0                    | %100               |
| 108 | M118         | Z         | -.482                     | -.482                    | 0                    | %100               |



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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 109 | M119         | X         | -.278                     | -.278                    | 0                     | %100                |
| 110 | M119         | Z         | -.482                     | -.482                    | 0                     | %100                |
| 111 | M121         | X         | -.252                     | -.252                    | 0                     | %100                |
| 112 | M121         | Z         | -.436                     | -.436                    | 0                     | %100                |
| 113 | M123         | X         | -.447                     | -.447                    | 0                     | %100                |
| 114 | M123         | Z         | -.774                     | -.774                    | 0                     | %100                |
| 115 | M125A        | X         | -.252                     | -.252                    | 0                     | %100                |
| 116 | M125A        | Z         | -.436                     | -.436                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M20          | Y         | .083                      | .083                     | 3.267                 | 3.733               |
| 2  | M20          | Y         | .083                      | -.417                    | 3.733                 | 4.2                 |
| 3  | M20          | Y         | -.417                     | -1.419                   | 4.2                   | 4.667               |
| 4  | M23          | Y         | -4.168                    | -6.124                   | 0                     | .88                 |
| 5  | M23          | Y         | -6.124                    | -7.366                   | .88                   | 1.761               |
| 6  | M23          | Y         | -7.366                    | -7.831                   | 1.761                 | 2.641               |
| 7  | M23          | Y         | -7.831                    | -6.158                   | 2.641                 | 3.522               |
| 8  | M23          | Y         | -6.158                    | -2.411                   | 3.522                 | 4.402               |
| 9  | M26          | Y         | -1.521                    | -.447                    | 0                     | .467                |
| 10 | M26          | Y         | -.447                     | .089                     | .467                  | .933                |
| 11 | M26          | Y         | .089                      | .089                     | .933                  | 1.4                 |
| 12 | M30          | Y         | -.004                     | -.06                     | .895                  | 1.313               |
| 13 | M30          | Y         | -.06                      | -.216                    | 1.313                 | 1.731               |
| 14 | M30          | Y         | -.216                     | -.317                    | 1.731                 | 2.149               |
| 15 | M30          | Y         | -.317                     | -.274                    | 2.149                 | 2.567               |
| 16 | M30          | Y         | -.274                     | -.187                    | 2.567                 | 2.985               |
| 17 | M31          | Y         | -.193                     | -.276                    | 0                     | .418                |
| 18 | M31          | Y         | -.276                     | -.316                    | .418                  | .836                |
| 19 | M31          | Y         | -.316                     | -.216                    | .836                  | 1.254               |
| 20 | M31          | Y         | -.216                     | -.06                     | 1.254                 | 1.672               |
| 21 | M31          | Y         | -.06                      | -.004                    | 1.672                 | 2.089               |
| 22 | M148         | Y         | -7.633                    | -.276                    | 0                     | .125                |
| 23 | M149         | Y         | -2.366                    | -.276                    | 0                     | .125                |
| 24 | M150         | Y         | -1.121                    | -2.734                   | 0                     | .233                |
| 25 | M150         | Y         | -2.734                    | -4.12                    | .233                  | .467                |
| 26 | M150         | Y         | -4.12                     | -5.339                   | .467                  | .7                  |
| 27 | M150         | Y         | -5.339                    | -6.209                   | .7                    | .933                |
| 28 | M150         | Y         | -6.209                    | -6.667                   | .933                  | 1.167               |
| 29 | M151         | Y         | -4.766                    | -2.734                   | 0                     | .125                |
| 30 | M152         | Y         | .063                      | -1.455                   | 0                     | .062                |
| 31 | M152         | Y         | -1.455                    | -3.224                   | .062                  | .125                |
| 32 | M153         | Y         | -8.144                    | -5.958                   | 0                     | .233                |
| 33 | M153         | Y         | -5.958                    | -4.537                   | .233                  | .467                |
| 34 | M153         | Y         | -4.537                    | -3.692                   | .467                  | .7                  |
| 35 | M153         | Y         | -3.692                    | -2.743                   | .7                    | .933                |
| 36 | M153         | Y         | -2.743                    | -1.882                   | .933                  | 1.167               |
| 37 | M30          | Y         | -3.084                    | -3.325                   | 1.194                 | 2.089               |
| 38 | M30          | Y         | -3.325                    | -3.567                   | 2.089                 | 2.985               |
| 39 | M40          | Y         | -2.872                    | -2.872                   | 0                     | .229                |
| 40 | M45          | Y         | -3.69                     | -3.69                    | 2.398                 | 2.75                |
| 41 | M26          | Y         | -.184                     | -3.25                    | .467                  | 1.307               |
| 42 | M26          | Y         | -3.25                     | -4.769                   | 1.307                 | 2.147               |
| 43 | M26          | Y         | -4.769                    | -3.317                   | 2.147                 | 2.987               |
| 44 | M26          | Y         | -3.317                    | -1.57                    | 2.987                 | 3.827               |
| 45 | M26          | Y         | -1.57                     | -.47                     | 3.827                 | 4.667               |

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

|     | Member Label | Direction | Start Magnitude lb/ft,... | End Magnitude lb/ft,F... | Start Location ft, % | End Location ft, % |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 46  | M45          | Y         | -.792                     | -2.324                   | 0                    | .917               |
| 47  | M45          | Y         | -2.324                    | -2.698                   | .917                 | 1.833              |
| 48  | M45          | Y         | -2.698                    | -1.913                   | 1.833                | 2.75               |
| 49  | M31          | Y         | -3.567                    | -3.325                   | 0                    | .895               |
| 50  | M31          | Y         | -3.325                    | -3.084                   | .895                 | 1.791              |
| 51  | M37          | Y         | -2.872                    | -2.872                   | 0                    | .229               |
| 52  | M38          | Y         | -3.69                     | -3.69                    | 2.398                | 2.75               |
| 53  | M20          | Y         | -.47                      | -1.57                    | 0                    | .84                |
| 54  | M20          | Y         | -1.57                     | -3.317                   | .84                  | 1.68               |
| 55  | M20          | Y         | -3.317                    | -4.77                    | 1.68                 | 2.52               |
| 56  | M20          | Y         | -4.77                     | -3.251                   | 2.52                 | 3.36               |
| 57  | M20          | Y         | -3.251                    | -.184                    | 3.36                 | 4.2                |
| 58  | M38          | Y         | -.792                     | -2.324                   | 0                    | .917               |
| 59  | M38          | Y         | -2.324                    | -2.698                   | .917                 | 1.833              |
| 60  | M38          | Y         | -2.698                    | -1.914                   | 1.833                | 2.75               |
| 61  | M25          | Y         | -4.628                    | -3.677                   | .933                 | 1.867              |
| 62  | M25          | Y         | -3.677                    | -3.27                    | 1.867                | 2.8                |
| 63  | M25          | Y         | -3.27                     | -1.963                   | 2.8                  | 3.733              |
| 64  | M25          | Y         | -1.963                    | -.012                    | 3.733                | 4.667              |
| 65  | M29          | Y         | -3.313                    | -3.313                   | 1.605                | 2.984              |
| 66  | M25          | Y         | -.228                     | -.484                    | 3.267                | 3.967              |
| 67  | M25          | Y         | -.484                     | -.741                    | 3.967                | 4.667              |
| 68  | M29          | Y         | -3.835                    | -2.216                   | 1.494                | 1.589              |
| 69  | M29          | Y         | -2.216                    | -2.086                   | 1.589                | 1.683              |
| 70  | M29          | Y         | -2.086                    | -3.445                   | 1.683                | 1.778              |
| 71  | M34          | Y         | -4.966                    | -4.966                   | 0                    | .229               |
| 72  | M35          | Y         | -.628                     | -.628                    | 0                    | .229               |
| 73  | M39          | Y         | -.089                     | -1.924                   | 0                    | .55                |
| 74  | M39          | Y         | -1.924                    | -2.942                   | .55                  | 1.1                |
| 75  | M39          | Y         | -2.942                    | -3.134                   | 1.1                  | 1.65               |
| 76  | M39          | Y         | -3.134                    | -3.258                   | 1.65                 | 2.2                |
| 77  | M39          | Y         | -3.258                    | -3.247                   | 2.2                  | 2.75               |
| 78  | M19          | Y         | .069                      | .069                     | 3.267                | 3.733              |
| 79  | M19          | Y         | .069                      | -.345                    | 3.733                | 4.2                |
| 80  | M19          | Y         | -.345                     | -1.172                   | 4.2                  | 4.667              |
| 81  | M22          | Y         | -4.198                    | -6.139                   | 0                    | .88                |
| 82  | M22          | Y         | -6.139                    | -7.372                   | .88                  | 1.761              |
| 83  | M22          | Y         | -7.372                    | -7.829                   | 1.761                | 2.641              |
| 84  | M22          | Y         | -7.829                    | -6.151                   | 2.641                | 3.522              |
| 85  | M22          | Y         | -6.151                    | -2.406                   | 3.522                | 4.402              |
| 86  | M25          | Y         | -1.513                    | -.445                    | 0                    | .467               |
| 87  | M25          | Y         | -.445                     | .089                     | .467                 | .933               |
| 88  | M25          | Y         | .089                      | .089                     | .933                 | 1.4                |
| 89  | M29          | Y         | -.004                     | -.06                     | .895                 | 1.313              |
| 90  | M29          | Y         | -.06                      | -.216                    | 1.313                | 1.731              |
| 91  | M29          | Y         | -.216                     | -.317                    | 1.731                | 2.149              |
| 92  | M29          | Y         | -.317                     | -.273                    | 2.149                | 2.567              |
| 93  | M29          | Y         | -.273                     | -.187                    | 2.567                | 2.985              |
| 94  | M33          | Y         | -.189                     | -.274                    | 0                    | .418               |
| 95  | M33          | Y         | -.274                     | -.317                    | .418                 | .836               |
| 96  | M33          | Y         | -.317                     | -.216                    | .836                 | 1.254              |
| 97  | M33          | Y         | -.216                     | -.06                     | 1.254                | 1.672              |
| 98  | M33          | Y         | -.06                      | -.004                    | 1.672                | 2.089              |
| 99  | M136         | Y         | -7.816                    | -.274                    | 0                    | .125               |
| 100 | M137         | Y         | -2.369                    | -.274                    | 0                    | .125               |
| 101 | M138         | Y         | -1.133                    | -2.747                   | 0                    | .233               |
| 102 | M138         | Y         | -2.747                    | -4.134                   | .233                 | .467               |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 103 | M138         | Y         | -4.134                    | -5.413                   | .467                  | .7                  |
| 104 | M138         | Y         | -5.413                    | -6.216                   | .7                    | .933                |
| 105 | M138         | Y         | -6.216                    | -6.423                   | .933                  | 1.167               |
| 106 | M139         | Y         | -4.673                    | -2.747                   | 0                     | .125                |
| 107 | M140         | Y         | .004                      | -1.285                   | 0                     | .063                |
| 108 | M140         | Y         | -1.285                    | -2.587                   | .063                  | .125                |
| 109 | M141         | Y         | -8.035                    | -5.887                   | 0                     | .233                |
| 110 | M141         | Y         | -5.887                    | -4.486                   | .233                  | .467                |
| 111 | M141         | Y         | -4.486                    | -3.663                   | .467                  | .7                  |
| 112 | M141         | Y         | -3.663                    | -2.971                   | .7                    | .933                |
| 113 | M141         | Y         | -2.971                    | -2.581                   | .933                  | 1.167               |
| 114 | M19          | Y         | -1.006                    | -1.319                   | 0                     | .933                |
| 115 | M19          | Y         | -1.319                    | -1.135                   | .933                  | 1.867               |
| 116 | M19          | Y         | -1.135                    | -.65                     | 1.867                 | 2.8                 |
| 117 | M19          | Y         | -.65                      | -.284                    | 2.8                   | 3.733               |
| 118 | M19          | Y         | -.284                     | -.02                     | 3.733                 | 4.667               |
| 119 | M50          | Y         | -1.353                    | -1.353                   | 0                     | .282                |
| 120 | M19          | Y         | -1.058                    | -2.371                   | 1.072                 | 1.706               |
| 121 | M19          | Y         | -2.371                    | -3.362                   | 1.706                 | 2.34                |
| 122 | M19          | Y         | -3.362                    | -3.515                   | 2.34                  | 2.973               |
| 123 | M19          | Y         | -3.515                    | -3.152                   | 2.973                 | 3.607               |
| 124 | M33          | Y         | -4.547                    | -2.371                   | 0                     | 1.791               |
| 125 | M50          | Y         | -.025                     | -2.713                   | 0                     | 1.375               |
| 126 | M50          | Y         | -2.713                    | -5.4                     | 1.375                 | 2.75                |
| 127 | M21          | Y         | .069                      | .069                     | 3.267                 | 3.733               |
| 128 | M21          | Y         | .069                      | -.343                    | 3.733                 | 4.2                 |
| 129 | M21          | Y         | -.343                     | -1.168                   | 4.2                   | 4.667               |
| 130 | M24          | Y         | -4.198                    | -6.139                   | 0                     | .88                 |
| 131 | M24          | Y         | -6.139                    | -7.372                   | .88                   | 1.761               |
| 132 | M24          | Y         | -7.372                    | -7.829                   | 1.761                 | 2.641               |
| 133 | M24          | Y         | -7.829                    | -6.151                   | 2.641                 | 3.522               |
| 134 | M24          | Y         | -6.151                    | -2.406                   | 3.522                 | 4.402               |
| 135 | M27          | Y         | -1.513                    | -.445                    | 0                     | .467                |
| 136 | M27          | Y         | -.445                     | .089                     | .467                  | .933                |
| 137 | M27          | Y         | .089                      | .089                     | .933                  | 1.4                 |
| 138 | M28          | Y         | -.004                     | -.06                     | .895                  | 1.313               |
| 139 | M28          | Y         | -.06                      | -.216                    | 1.313                 | 1.731               |
| 140 | M28          | Y         | -.216                     | -.317                    | 1.731                 | 2.149               |
| 141 | M28          | Y         | -.317                     | -.273                    | 2.149                 | 2.567               |
| 142 | M28          | Y         | -.273                     | -.187                    | 2.567                 | 2.985               |
| 143 | M32          | Y         | -.193                     | -.275                    | 0                     | .418                |
| 144 | M32          | Y         | -.275                     | -.316                    | .418                  | .836                |
| 145 | M32          | Y         | -.316                     | -.216                    | .836                  | 1.254               |
| 146 | M32          | Y         | -.216                     | -.06                     | 1.254                 | 1.672               |
| 147 | M32          | Y         | -.06                      | -.004                    | 1.672                 | 2.089               |
| 148 | M124         | Y         | -7.189                    | -.275                    | 0                     | .125                |
| 149 | M125         | Y         | -2.368                    | -.275                    | 0                     | .125                |
| 150 | M128         | Y         | -1.124                    | -2.739                   | 0                     | .233                |
| 151 | M128         | Y         | -2.739                    | -4.126                   | .233                  | .467                |
| 152 | M128         | Y         | -4.126                    | -5.405                   | .467                  | .7                  |
| 153 | M128         | Y         | -5.405                    | -6.291                   | .7                    | .933                |
| 154 | M128         | Y         | -6.291                    | -6.666                   | .933                  | 1.167               |
| 155 | M127         | Y         | -4.681                    | -2.739                   | 0                     | .125                |
| 156 | M128A        | Y         | .003                      | -1.291                   | 0                     | .063                |
| 157 | M128A        | Y         | -1.291                    | -2.599                   | .063                  | .125                |
| 158 | M129         | Y         | -8.035                    | -5.887                   | 0                     | .233                |
| 159 | M129         | Y         | -5.887                    | -4.486                   | .233                  | .467                |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|-----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 160 | M129         | Y         | -4.486                    | -3.663                   | .467                  | .7                  |
| 161 | M129         | Y         | -3.663                    | -2.97                    | .7                    | .933                |
| 162 | M129         | Y         | -2.97                     | -2.58                    | .933                  | 1.167               |
| 163 | M27          | Y         | -.228                     | -.484                    | 3.267                 | 3.967               |
| 164 | M27          | Y         | -.484                     | -.741                    | 3.967                 | 4.667               |
| 165 | M28          | Y         | -3.835                    | -2.216                   | 1.494                 | 1.589               |
| 166 | M28          | Y         | -2.216                    | -2.086                   | 1.589                 | 1.683               |
| 167 | M28          | Y         | -2.086                    | -3.445                   | 1.683                 | 1.778               |
| 168 | M46          | Y         | -4.966                    | -4.966                   | 0                     | .229                |
| 169 | M47          | Y         | -.628                     | -.628                    | 0                     | .229                |
| 170 | M51          | Y         | -.089                     | -1.924                   | 0                     | .55                 |
| 171 | M51          | Y         | -1.924                    | -2.942                   | .55                   | 1.1                 |
| 172 | M51          | Y         | -2.942                    | -3.134                   | 1.1                   | 1.65                |
| 173 | M51          | Y         | -3.134                    | -3.258                   | 1.65                  | 2.2                 |
| 174 | M51          | Y         | -3.258                    | -3.247                   | 2.2                   | 2.75                |
| 175 | M27          | Y         | -4.627                    | -3.667                   | .933                  | 1.867               |
| 176 | M27          | Y         | -3.667                    | -3.257                   | 1.867                 | 2.8                 |
| 177 | M27          | Y         | -3.257                    | -1.955                   | 2.8                   | 3.733               |
| 178 | M27          | Y         | -1.955                    | -.012                    | 3.733                 | 4.667               |
| 179 | M28          | Y         | -3.34                     | -3.34                    | 1.607                 | 2.984               |
| 180 | M21          | Y         | -.741                     | -.484                    | 0                     | .7                  |
| 181 | M21          | Y         | -.484                     | -.228                    | .7                    | 1.4                 |
| 182 | M32          | Y         | -3.445                    | -2.086                   | 1.207                 | 1.302               |
| 183 | M32          | Y         | -2.086                    | -2.216                   | 1.302                 | 1.396               |
| 184 | M32          | Y         | -2.216                    | -3.835                   | 1.396                 | 1.491               |
| 185 | M42          | Y         | -.628                     | -.628                    | 0                     | .229                |
| 186 | M43          | Y         | -4.966                    | -4.966                   | 0                     | .229                |
| 187 | M44          | Y         | -.089                     | -1.924                   | 0                     | .55                 |
| 188 | M44          | Y         | -1.924                    | -2.942                   | .55                   | 1.1                 |
| 189 | M44          | Y         | -2.942                    | -3.134                   | 1.1                   | 1.65                |
| 190 | M44          | Y         | -3.134                    | -3.258                   | 1.65                  | 2.2                 |
| 191 | M44          | Y         | -3.258                    | -3.247                   | 2.2                   | 2.75                |
| 192 | M21          | Y         | -.012                     | -1.955                   | 0                     | .933                |
| 193 | M21          | Y         | -1.955                    | -3.256                   | .933                  | 1.867               |
| 194 | M21          | Y         | -3.256                    | -3.667                   | 1.867                 | 2.8                 |
| 195 | M21          | Y         | -3.667                    | -4.627                   | 2.8                   | 3.733               |
| 196 | M32          | Y         | -3.34                     | -3.34                    | .0007947              | 1.378               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 1  | M20          | Y         | .205                      | .205                     | 3.267                 | 3.733               |
| 2  | M20          | Y         | .205                      | -1.027                   | 3.733                 | 4.2                 |
| 3  | M20          | Y         | -1.027                    | -3.491                   | 4.2                   | 4.667               |
| 4  | M23          | Y         | -10.252                   | -15.064                  | 0                     | .88                 |
| 5  | M23          | Y         | -15.064                   | -18.12                   | .88                   | 1.761               |
| 6  | M23          | Y         | -18.12                    | -19.264                  | 1.761                 | 2.641               |
| 7  | M23          | Y         | -19.264                   | -15.149                  | 2.641                 | 3.522               |
| 8  | M23          | Y         | -15.149                   | -5.931                   | 3.522                 | 4.402               |
| 9  | M26          | Y         | -3.741                    | -1.1                     | 0                     | .467                |
| 10 | M26          | Y         | -1.1                      | .22                      | .467                  | .933                |
| 11 | M26          | Y         | .22                       | .22                      | .933                  | 1.4                 |
| 12 | M30          | Y         | -.011                     | -.148                    | .895                  | 1.313               |
| 13 | M30          | Y         | -.148                     | -.532                    | 1.313                 | 1.731               |
| 14 | M30          | Y         | -.532                     | -.779                    | 1.731                 | 2.149               |
| 15 | M30          | Y         | -.779                     | -.673                    | 2.149                 | 2.567               |
| 16 | M30          | Y         | -.673                     | -.46                     | 2.567                 | 2.985               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 17 | M31          | Y         | -476                      | -678                     | 0                     | .418                |
| 18 | M31          | Y         | -678                      | -778                     | .418                  | .836                |
| 19 | M31          | Y         | -778                      | -531                     | .836                  | 1.254               |
| 20 | M31          | Y         | -531                      | -147                     | 1.254                 | 1.672               |
| 21 | M31          | Y         | -147                      | -.01                     | 1.672                 | 2.089               |
| 22 | M148         | Y         | -18.778                   | -678                     | 0                     | .125                |
| 23 | M149         | Y         | -5.821                    | -678                     | 0                     | .125                |
| 24 | M150         | Y         | -2.757                    | -6.726                   | 0                     | .233                |
| 25 | M150         | Y         | -6.726                    | -10.134                  | .233                  | .467                |
| 26 | M150         | Y         | -10.134                   | -13.135                  | .467                  | .7                  |
| 27 | M150         | Y         | -13.135                   | -15.275                  | .7                    | .933                |
| 28 | M150         | Y         | -15.275                   | -16.401                  | .933                  | 1.167               |
| 29 | M151         | Y         | -11.725                   | -6.726                   | 0                     | .125                |
| 30 | M152         | Y         | .154                      | -3.58                    | 0                     | .062                |
| 31 | M152         | Y         | -3.58                     | -7.932                   | .062                  | .125                |
| 32 | M153         | Y         | -20.033                   | -14.657                  | 0                     | .233                |
| 33 | M153         | Y         | -14.657                   | -11.162                  | .233                  | .467                |
| 34 | M153         | Y         | -11.162                   | -9.081                   | .467                  | .7                  |
| 35 | M153         | Y         | -9.081                    | -6.748                   | .7                    | .933                |
| 36 | M153         | Y         | -6.748                    | -4.629                   | .933                  | 1.167               |
| 37 | M30          | Y         | -7.586                    | -8.18                    | 1.194                 | 2.089               |
| 38 | M30          | Y         | -8.18                     | -8.774                   | 2.089                 | 2.985               |
| 39 | M40          | Y         | -7.066                    | -7.066                   | 0                     | .229                |
| 40 | M45          | Y         | -9.077                    | -9.077                   | 2.398                 | 2.75                |
| 41 | M26          | Y         | -.453                     | -7.996                   | .467                  | 1.307               |
| 42 | M26          | Y         | -7.996                    | -11.733                  | 1.307                 | 2.147               |
| 43 | M26          | Y         | -11.733                   | -8.16                    | 2.147                 | 2.987               |
| 44 | M26          | Y         | -8.16                     | -3.862                   | 2.987                 | 3.827               |
| 45 | M26          | Y         | -3.862                    | -1.156                   | 3.827                 | 4.667               |
| 46 | M45          | Y         | -1.948                    | -5.717                   | 0                     | .917                |
| 47 | M45          | Y         | -5.717                    | -6.637                   | .917                  | 1.833               |
| 48 | M45          | Y         | -6.637                    | -4.707                   | 1.833                 | 2.75                |
| 49 | M31          | Y         | -8.774                    | -8.18                    | 0                     | .895                |
| 50 | M31          | Y         | -8.18                     | -7.586                   | .895                  | 1.791               |
| 51 | M37          | Y         | -7.066                    | -7.066                   | 0                     | .229                |
| 52 | M38          | Y         | -9.077                    | -9.077                   | 2.398                 | 2.75                |
| 53 | M20          | Y         | -1.156                    | -3.862                   | 0                     | .84                 |
| 54 | M20          | Y         | -3.862                    | -8.16                    | .84                   | 1.68                |
| 55 | M20          | Y         | -8.16                     | -11.734                  | 1.68                  | 2.52                |
| 56 | M20          | Y         | -11.734                   | -7.997                   | 2.52                  | 3.36                |
| 57 | M20          | Y         | -7.997                    | -.453                    | 3.36                  | 4.2                 |
| 58 | M38          | Y         | -1.948                    | -5.716                   | 0                     | .917                |
| 59 | M38          | Y         | -5.716                    | -6.636                   | .917                  | 1.833               |
| 60 | M38          | Y         | -6.636                    | -4.708                   | 1.833                 | 2.75                |
| 61 | M25          | Y         | -11.385                   | -9.044                   | .933                  | 1.867               |
| 62 | M25          | Y         | -9.044                    | -8.045                   | 1.867                 | 2.8                 |
| 63 | M25          | Y         | -8.045                    | -4.83                    | 2.8                   | 3.733               |
| 64 | M25          | Y         | -4.83                     | -.031                    | 3.733                 | 4.667               |
| 65 | M29          | Y         | -8.149                    | -8.149                   | 1.605                 | 2.984               |
| 66 | M25          | Y         | -.56                      | -1.191                   | 3.267                 | 3.967               |
| 67 | M25          | Y         | -1.191                    | -1.822                   | 3.967                 | 4.667               |
| 68 | M29          | Y         | -9.434                    | -5.452                   | 1.494                 | 1.589               |
| 69 | M29          | Y         | -5.452                    | -5.132                   | 1.589                 | 1.683               |
| 70 | M29          | Y         | -5.132                    | -8.476                   | 1.683                 | 1.778               |
| 71 | M34          | Y         | -12.215                   | -12.215                  | 0                     | .229                |
| 72 | M35          | Y         | -1.546                    | -1.546                   | 0                     | .229                |
| 73 | M39          | Y         | -.218                     | -4.732                   | 0                     | .55                 |

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

|     | Member Label | Direction | Start Magnitude lb/ft,... | End Magnitude lb/ft,F... | Start Location ft,% | End Location ft,% |
|-----|--------------|-----------|---------------------------|--------------------------|---------------------|-------------------|
| 74  | M39          | Y         | -4.732                    | -7.238                   | .55                 | 1.1               |
| 75  | M39          | Y         | -7.238                    | -7.711                   | 1.1                 | 1.65              |
| 76  | M39          | Y         | -7.711                    | -8.014                   | 1.65                | 2.2               |
| 77  | M39          | Y         | -8.014                    | -7.987                   | 2.2                 | 2.75              |
| 78  | M19          | Y         | .17                       | .17                      | 3.267               | 3.733             |
| 79  | M19          | Y         | .17                       | -.848                    | 3.733               | 4.2               |
| 80  | M19          | Y         | -.848                     | -2.883                   | 4.2                 | 4.667             |
| 81  | M22          | Y         | -10.328                   | -15.102                  | 0                   | .88               |
| 82  | M22          | Y         | -15.102                   | -18.135                  | .88                 | 1.761             |
| 83  | M22          | Y         | -18.135                   | -19.26                   | 1.761               | 2.641             |
| 84  | M22          | Y         | -19.26                    | -15.131                  | 2.641               | 3.522             |
| 85  | M22          | Y         | -15.131                   | -5.919                   | 3.522               | 4.402             |
| 86  | M25          | Y         | -3.723                    | -1.095                   | 0                   | .467              |
| 87  | M25          | Y         | -1.095                    | .219                     | .467                | .933              |
| 88  | M25          | Y         | .219                      | .219                     | .933                | 1.4               |
| 89  | M29          | Y         | -.011                     | -.148                    | .895                | 1.313             |
| 90  | M29          | Y         | -.148                     | -.532                    | 1.313               | 1.731             |
| 91  | M29          | Y         | -.532                     | -.779                    | 1.731               | 2.149             |
| 92  | M29          | Y         | -.779                     | -.673                    | 2.149               | 2.567             |
| 93  | M29          | Y         | -.673                     | -.46                     | 2.567               | 2.985             |
| 94  | M33          | Y         | -.465                     | -.674                    | 0                   | .418              |
| 95  | M33          | Y         | -.674                     | -.779                    | .418                | .836              |
| 96  | M33          | Y         | -.779                     | -.532                    | .836                | 1.254             |
| 97  | M33          | Y         | -.532                     | -.148                    | 1.254               | 1.672             |
| 98  | M33          | Y         | -.148                     | -.01                     | 1.672               | 2.089             |
| 99  | M136         | Y         | -19.227                   | -.674                    | 0                   | .125              |
| 100 | M137         | Y         | -5.828                    | -.674                    | 0                   | .125              |
| 101 | M138         | Y         | -2.787                    | -6.759                   | 0                   | .233              |
| 102 | M138         | Y         | -6.759                    | -10.17                   | .233                | .467              |
| 103 | M138         | Y         | -10.17                    | -13.317                  | .467                | .7                |
| 104 | M138         | Y         | -13.317                   | -15.291                  | .7                  | .933              |
| 105 | M138         | Y         | -15.291                   | -15.8                    | .933                | 1.167             |
| 106 | M139         | Y         | -11.496                   | -6.759                   | 0                   | .125              |
| 107 | M140         | Y         | .009                      | -3.16                    | 0                   | .063              |
| 108 | M140         | Y         | -3.16                     | -6.364                   | .063                | .125              |
| 109 | M141         | Y         | -19.767                   | -14.481                  | 0                   | .233              |
| 110 | M141         | Y         | -14.481                   | -11.036                  | .233                | .467              |
| 111 | M141         | Y         | -11.036                   | -9.011                   | .467                | .7                |
| 112 | M141         | Y         | -9.011                    | -7.308                   | .7                  | .933              |
| 113 | M141         | Y         | -7.308                    | -6.35                    | .933                | 1.167             |
| 114 | M19          | Y         | -2.475                    | -3.244                   | 0                   | .933              |
| 115 | M19          | Y         | -3.244                    | -2.793                   | .933                | 1.867             |
| 116 | M19          | Y         | -2.793                    | -1.6                     | 1.867               | 2.8               |
| 117 | M19          | Y         | -1.6                      | -.699                    | 2.8                 | 3.733             |
| 118 | M19          | Y         | -.699                     | -.049                    | 3.733               | 4.667             |
| 119 | M50          | Y         | -3.33                     | -3.33                    | 0                   | .282              |
| 120 | M19          | Y         | -2.603                    | -5.833                   | 1.072               | 1.706             |
| 121 | M19          | Y         | -5.833                    | -8.271                   | 1.706               | 2.34              |
| 122 | M19          | Y         | -8.271                    | -8.647                   | 2.34                | 2.973             |
| 123 | M19          | Y         | -8.647                    | -7.754                   | 2.973               | 3.607             |
| 124 | M33          | Y         | -11.187                   | -5.833                   | 0                   | 1.791             |
| 125 | M50          | Y         | -.063                     | -6.673                   | 0                   | 1.375             |
| 126 | M50          | Y         | -6.673                    | -13.284                  | 1.375               | 2.75              |
| 127 | M21          | Y         | .169                      | .169                     | 3.267               | 3.733             |
| 128 | M21          | Y         | .169                      | -.845                    | 3.733               | 4.2               |
| 129 | M21          | Y         | -.845                     | -2.872                   | 4.2                 | 4.667             |
| 130 | M24          | Y         | -10.328                   | -15.102                  | 0                   | .88               |

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

| Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft, %] | End Location[ft, %] |
|--------------|-----------|---------------------------|--------------------------|-----------------------|---------------------|
| 131          | M24       | -15.102                   | -18.135                  | .88                   | 1.761               |
| 132          | M24       | -18.135                   | -19.26                   | 1.761                 | 2.641               |
| 133          | M24       | -19.26                    | -15.131                  | 2.641                 | 3.522               |
| 134          | M24       | -15.131                   | -5.919                   | 3.522                 | 4.402               |
| 135          | M27       | -3.723                    | -1.095                   | 0                     | .467                |
| 136          | M27       | -1.095                    | .219                     | .467                  | .933                |
| 137          | M27       | .219                      | .219                     | .933                  | 1.4                 |
| 138          | M28       | -.011                     | -.148                    | .895                  | 1.313               |
| 139          | M28       | -.148                     | -.532                    | 1.313                 | 1.731               |
| 140          | M28       | -.532                     | -.779                    | 1.731                 | 2.149               |
| 141          | M28       | -.779                     | -.673                    | 2.149                 | 2.567               |
| 142          | M28       | -.673                     | -.46                     | 2.567                 | 2.985               |
| 143          | M32       | -.474                     | -.677                    | 0                     | .418                |
| 144          | M32       | -.677                     | -.778                    | .418                  | .836                |
| 145          | M32       | -.778                     | -.531                    | .836                  | 1.254               |
| 146          | M32       | -.531                     | -.147                    | 1.254                 | 1.672               |
| 147          | M32       | -.147                     | -.01                     | 1.672                 | 2.089               |
| 148          | M124      | -17.684                   | -.677                    | 0                     | .125                |
| 149          | M125      | -5.825                    | -.677                    | 0                     | .125                |
| 150          | M128      | -2.766                    | -6.738                   | 0                     | .233                |
| 151          | M128      | -6.738                    | -10.15                   | .233                  | .467                |
| 152          | M128      | -10.15                    | -13.296                  | .467                  | .7                  |
| 153          | M128      | -13.296                   | -15.477                  | .7                    | .933                |
| 154          | M128      | -15.477                   | -16.398                  | .933                  | 1.167               |
| 155          | M127      | -11.516                   | -6.738                   | 0                     | .125                |
| 156          | M128A     | .008                      | -3.176                   | 0                     | .063                |
| 157          | M128A     | -3.176                    | -6.393                   | .063                  | .125                |
| 158          | M129      | -19.767                   | -14.481                  | 0                     | .233                |
| 159          | M129      | -14.481                   | -11.036                  | .233                  | .467                |
| 160          | M129      | -11.036                   | -9.01                    | .467                  | .7                  |
| 161          | M129      | -9.01                     | -7.306                   | .7                    | .933                |
| 162          | M129      | -7.306                    | -6.346                   | .933                  | 1.167               |
| 163          | M27       | -.56                      | -1.191                   | 3.267                 | 3.967               |
| 164          | M27       | -1.191                    | -1.822                   | 3.967                 | 4.667               |
| 165          | M28       | -9.434                    | -5.452                   | 1.494                 | 1.589               |
| 166          | M28       | -5.452                    | -5.132                   | 1.589                 | 1.683               |
| 167          | M28       | -5.132                    | -8.476                   | 1.683                 | 1.778               |
| 168          | M46       | -12.215                   | -12.215                  | 0                     | .229                |
| 169          | M47       | -1.546                    | -1.546                   | 0                     | .229                |
| 170          | M51       | -.218                     | -4.732                   | 0                     | .55                 |
| 171          | M51       | -4.732                    | -7.238                   | .55                   | 1.1                 |
| 172          | M51       | -7.238                    | -7.711                   | 1.1                   | 1.65                |
| 173          | M51       | -7.711                    | -8.014                   | 1.65                  | 2.2                 |
| 174          | M51       | -8.014                    | -7.987                   | 2.2                   | 2.75                |
| 175          | M27       | -11.384                   | -9.021                   | .933                  | 1.867               |
| 176          | M27       | -9.021                    | -8.011                   | 1.867                 | 2.8                 |
| 177          | M27       | -8.011                    | -4.81                    | 2.8                   | 3.733               |
| 178          | M27       | -4.81                     | -.028                    | 3.733                 | 4.667               |
| 179          | M28       | -8.216                    | -8.216                   | 1.607                 | 2.984               |
| 180          | M21       | -1.822                    | -1.191                   | 0                     | .7                  |
| 181          | M21       | -1.191                    | -.56                     | .7                    | 1.4                 |
| 182          | M32       | -8.476                    | -5.132                   | 1.207                 | 1.302               |
| 183          | M32       | -5.132                    | -5.452                   | 1.302                 | 1.396               |
| 184          | M32       | -5.452                    | -9.434                   | 1.396                 | 1.491               |
| 185          | M42       | -1.546                    | -1.546                   | 0                     | .229                |
| 186          | M43       | -12.215                   | -12.215                  | 0                     | .229                |
| 187          | M44       | -.218                     | -4.732                   | 0                     | .55                 |

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

|     | Member Label | Direction | Start Magnitude[lb/ft,... | End Magnitude[lb/ft,F... | Start Location[ft,%] | End Location[ft,%] |
|-----|--------------|-----------|---------------------------|--------------------------|----------------------|--------------------|
| 188 | M44          | Y         | -4.732                    | -7.238                   | .55                  | 1.1                |
| 189 | M44          | Y         | -7.238                    | -7.711                   | 1.1                  | 1.65               |
| 190 | M44          | Y         | -7.711                    | -8.014                   | 1.65                 | 2.2                |
| 191 | M44          | Y         | -8.014                    | -7.987                   | 2.2                  | 2.75               |
| 192 | M21          | Y         | -.028                     | -4.81                    | 0                    | .933               |
| 193 | M21          | Y         | -4.81                     | -8.011                   | .933                 | 1.867              |
| 194 | M21          | Y         | -8.011                    | -9.021                   | 1.867                | 2.8                |
| 195 | M21          | Y         | -9.021                    | -11.383                  | 2.8                  | 3.733              |
| 196 | M32          | Y         | -8.216                    | -8.216                   | .0007947             | 1.378              |

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

|    | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[psf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1  | N57A    | N57     | N85     | N89     | Y         | Two Way      | -5             |
| 2  | N85     | N86     | N57     |         | Y         | Two Way      | -5             |
| 3  | N57     | N88     | N74     | N86     | Y         | Two Way      | -5             |
| 4  | N90     | N89     | N57A    |         | Y         | Two Way      | -5             |
| 5  | N91     | N57A    | N90     | N64     | Y         | Two Way      | -5             |
| 6  | N84     | N55     | N81A    |         | Y         | Two Way      | -5             |
| 7  | N81A    | N82     | N66     | N84     | Y         | Two Way      | -5             |
| 8  | N55     | N60     | N95     | N81A    | Y         | Two Way      | -5             |
| 9  | N60     | N97     | N79     |         | Y         | Two Way      | -5             |
| 10 | N95     | N96     | N79     | N60     | Y         | Two Way      | -5             |
| 11 | N53     | N58     | N60A    | N59     | Y         | Two Way      | -5             |
| 12 | N59     | N67     | N81     | N80A    | Y         | Two Way      | -5             |
| 13 | N53     | N80A    | N59     |         | Y         | Two Way      | -5             |
| 14 | N60A    | N92     | N72     | N93     | Y         | Two Way      | -5             |
| 15 | N58     | N93     | N60A    |         | Y         | Two Way      | -5             |

**Member Area Loads (BLC 40 : Structure Di)**

|    | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[psf] |
|----|---------|---------|---------|---------|-----------|--------------|----------------|
| 1  | N57A    | N57     | N85     | N89     | Y         | Two Way      | -12.3          |
| 2  | N85     | N86     | N57     |         | Y         | Two Way      | -12.3          |
| 3  | N57     | N88     | N74     | N86     | Y         | Two Way      | -12.3          |
| 4  | N90     | N89     | N57A    |         | Y         | Two Way      | -12.3          |
| 5  | N91     | N57A    | N90     | N64     | Y         | Two Way      | -12.3          |
| 6  | N84     | N55     | N81A    |         | Y         | Two Way      | -12.3          |
| 7  | N81A    | N82     | N66     | N84     | Y         | Two Way      | -12.3          |
| 8  | N55     | N60     | N95     | N81A    | Y         | Two Way      | -12.3          |
| 9  | N60     | N97     | N79     |         | Y         | Two Way      | -12.3          |
| 10 | N95     | N96     | N79     | N60     | Y         | Two Way      | -12.3          |
| 11 | N53     | N58     | N60A    | N59     | Y         | Two Way      | -12.3          |
| 12 | N59     | N67     | N81     | N80A    | Y         | Two Way      | -12.3          |
| 13 | N53     | N80A    | N59     |         | Y         | Two Way      | -12.3          |
| 14 | N60A    | N92     | N72     | N93     | Y         | Two Way      | -12.3          |
| 15 | N58     | N93     | N60A    |         | Y         | Two Way      | -12.3          |

**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 | N2    | max | 1221.517  | 10 | 632.564   | 7  | 7445.036  | 1  | .5        | 7  | 1.775     | 4  | .658      | 4  |
| 2 |       | min | -1217.632 | 4  | -1089.63  | 1  | -2895.376 | 7  | -.829     | 1  | -1.762    | 10 | -.582     | 10 |
| 3 | N169A | max | 6271.414  | 9  | 572.062   | 3  | 1225.966  | 3  | .674      | 11 | 1.713     | 12 | .705      | 8  |
| 4 |       | min | -2424.939 | 3  | -1053.817 | 9  | -3449.547 | 9  | -.424     | 5  | -1.701    | 6  | -.458     | 2  |
| 5 | N171A | max | 2436.076  | 11 | 590.493   | 11 | 1574.17   | 11 | .529      | 3  | 1.771     | 8  | .454      | 12 |



**Envelope Joint Reactions (Continued)**

| Joint | X [lb]               | LC | Y [lb]    | LC | Z [lb]    | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|-------|----------------------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| 6     | min -6328.275        | 5  | -1120.553 | 5  | -3819.505 | 5  | -415      | 9  | -1.76     | 2  | -832      | 6  |
| 7     | N209 max 27.394      | 10 | 3381.617  | 13 | 336.602   | 7  | 0         | 51 | 0         | 9  | 0         | 3  |
| 8     | min -27.299          | 4  | -176.779  | 7  | -5997.614 | 13 | 0         | 1  | 0         | 3  | 0         | 9  |
| 9     | N212B max 241.998    | 3  | 3299.874  | 21 | 2925.045  | 21 | 0         | 11 | 0         | 5  | 0         | 5  |
| 10    | min -5067.068        | 21 | -144.915  | 3  | -139.732  | 3  | 0         | 5  | 0         | 11 | 0         | 11 |
| 11    | N215A max 5153.592   | 17 | 3355.705  | 17 | 2975.791  | 17 | 0         | 1  | 0         | 1  | 0         | 1  |
| 12    | min -356.761         | 11 | -218.786  | 11 | -205.984  | 11 | 0         | 7  | 0         | 7  | 0         | 7  |
| 13    | Totals: max 4741.169 | 10 | 7501.104  | 16 | 4684.548  | 1  |           |    |           |    |           |    |
| 14    | min -4741.172        | 4  | 3529.681  | 10 | -4684.551 | 7  |           |    |           |    |           |    |

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

| Member | Shape | Code Check | Loc[...] | LC    | Shear Check | Loc[ft] | Dir   | LC | phi*Pnc... | phi*Pnt... | phi*Mn... | phi*Mn... | Cb     | Eqn       |
|--------|-------|------------|----------|-------|-------------|---------|-------|----|------------|------------|-----------|-----------|--------|-----------|
| 1      | M4    | HSS3X3X5   | .207     | 2.157 | 2           | .114    | 0     | z  | 4          | 107311...  | 121716    | 10.005    | 10.005 | 1...H1-1b |
| 2      | M5    | HSS3X3X5   | .331     | 1.844 | 24          | .062    | 1.844 | y  | 3          | 97300.5... | 121716    | 10.005    | 10.005 | 2...H1-1b |
| 3      | M11   | HSS3X3X5   | .319     | 1.844 | 10          | .070    | 1.844 | y  | 11         | 97300.5... | 121716    | 10.005    | 10.005 | 2...H1-1b |
| 4      | M17   | HSS3X3X5   | .334     | 1.844 | 5           | .067    | 1.844 | y  | 7          | 97300.5... | 121716    | 10.005    | 10.005 | 2...H1-1b |
| 5      | M18   | PL5/8X6    | .207     | .5    | 10          | .332    | .5    | y  | 16         | 96258.0... | 121500    | 1.582     | 15.188 | 1...H1-1b |
| 6      | M19   | PIPE 3.0   | .125     | 4.326 | 6           | .150    | 4.181 |    | 8          | 58029.84   | 65205     | 5.749     | 5.749  | 1...H1-1b |
| 7      | M20   | PIPE 3.0   | .123     | 4.326 | 2           | .152    | 4.181 |    | 4          | 58029.84   | 65205     | 5.749     | 5.749  | 1...H1-1b |
| 8      | M21   | PIPE 3.0   | .119     | 0     | 21          | .168    | 4.181 |    | 12         | 58029.84   | 65205     | 5.749     | 5.749  | 1...H1-1b |
| 9      | M22   | PIPE 3.0   | .107     | 0     | 6           | .034    | 0     |    | 17         | 58780.24   | 65205     | 5.749     | 5.749  | 2...H1-1b |
| 10     | M23   | PIPE 3.0   | .106     | 4.402 | 2           | .037    | 0     |    | 24         | 58780.24   | 65205     | 5.749     | 5.749  | 2...H1-1b |
| 11     | M24   | PIPE 3.0   | .100     | 0     | 11          | .033    | 0     |    | 23         | 58780.24   | 65205     | 5.749     | 5.749  | 2...H1-1b |
| 12     | M25   | PIPE 3.0   | .121     | .486  | 6           | .162    | .535  |    | 10         | 58029.9... | 65205     | 5.749     | 5.749  | 2...H1-1b |
| 13     | M26   | PIPE 3.0   | .126     | .486  | 2           | .174    | .535  |    | 5          | 58029.9... | 65205     | 5.749     | 5.749  | 2...H1-1b |
| 14     | M27   | PIPE 3.0   | .118     | .486  | 10          | .166    | .535  |    | 2          | 58029.9... | 65205     | 5.749     | 5.749  | 2...H1-1b |
| 15     | M28   | L2.5x2.5x4 | .743     | 0     | 16          | .059    | 0     | z  | 14         | 28829.2... | 38556     | 1.114     | 2.537  | 2...H2-1  |
| 16     | M29   | L2.5x2.5x4 | .731     | 0     | 24          | .058    | 0     | z  | 22         | 28829.2... | 38556     | 1.114     | 2.537  | 2...H2-1  |
| 17     | M30   | L2.5x2.5x4 | .755     | 0     | 20          | .060    | 0     | z  | 18         | 28829.2... | 38556     | 1.114     | 2.537  | 2...H2-1  |
| 18     | M31   | L2.5x2.5x4 | .718     | 2.985 | 14          | .062    | 2.985 | z  | 16         | 28829.2... | 38556     | 1.114     | 2.537  | 2...H2-1  |
| 19     | M32   | L2.5x2.5x4 | .749     | 2.985 | 22          | .066    | 2.985 | z  | 23         | 28829.2... | 38556     | 1.114     | 2.537  | 2...H2-1  |
| 20     | M33   | L2.5x2.5x4 | .716     | 2.985 | 18          | .062    | 2.985 | z  | 19         | 28829.2... | 38556     | 1.114     | 2.537  | 2...H2-1  |
| 21     | M38   | L2.5x2.5x4 | .300     | 2.75  | 13          | .018    | 2.75  | y  | 14         | 30124.6... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 22     | M39   | L2.5x2.5x4 | .311     | 2.75  | 13          | .019    | 2.75  | y  | 14         | 30124.6... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 23     | M44   | L2.5x2.5x4 | .286     | 2.75  | 21          | .018    | 2.75  | y  | 22         | 30124.6... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 24     | M45   | L2.5x2.5x4 | .302     | 2.75  | 21          | .020    | 2.75  | y  | 11         | 30124.6... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 25     | M50   | L2.5x2.5x4 | .299     | 2.75  | 17          | .018    | 2.75  | y  | 18         | 30124.6... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 26     | M51   | L2.5x2.5x4 | .312     | 2.75  | 17          | .019    | 2.75  | z  | 18         | 30124.6... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 27     | MP5A  | PIPE 2.0   | .204     | 4.302 | 4           | .113    | 4.302 |    | 6          | 17855.0... | 32130     | 1.872     | 1.872  | 1...H1-1b |
| 28     | MP4A  | PIPE 2.0   | .532     | 4.302 | 11          | .115    | 4.302 |    | 8          | 17855.0... | 32130     | 1.872     | 1.872  | 1...H1-1b |
| 29     | MP2A  | PIPE 2.0   | .435     | 5.333 | 1           | .185    | 5.333 |    | 5          | 14916.0... | 32130     | 1.872     | 1.872  | 3...H1-1b |
| 30     | MP1A  | PIPE 2.0   | .269     | 1.385 | 6           | .121    | 1.385 |    | 7          | 17855.0... | 32130     | 1.872     | 1.872  | 1...H1-1b |
| 31     | M122A | PL5/8X6    | .206     | .5    | 6           | .330    | .5    | y  | 24         | 96258.0... | 121500    | 1.582     | 15.188 | 1...H1-1b |
| 32     | M123A | PL5/8X6    | .209     | .5    | 4           | .330    | .5    | y  | 19         | 96258.0... | 121500    | 1.582     | 15.188 | 1...H1-1b |
| 33     | M128  | L2.5x2.5x4 | .021     | .608  | 4           | .004    | 1.167 | z  | 16         | 36881.0... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 34     | M129  | L2.5x2.5x4 | .020     | .571  | 10          | .003    | 0     | z  | 16         | 36881.0... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 35     | M138  | L2.5x2.5x4 | .021     | .608  | 12          | .004    | 1.167 | z  | 24         | 36881.0... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 36     | M141  | L2.5x2.5x4 | .019     | .547  | 18          | .003    | 0     | z  | 48         | 36881.0... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 37     | M150  | L2.5x2.5x4 | .022     | .608  | 8           | .004    | 1.167 | z  | 20         | 36881.0... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 38     | M153  | L2.5x2.5x4 | .021     | .571  | 2           | .002    | 0     | z  | 6          | 36881.0... | 38556     | 1.114     | 2.537  | 1...H2-1  |
| 39     | M98A  | HSS3X3X5   | .217     | 2.157 | 10          | .098    | 0     | z  | 12         | 107311...  | 121716    | 10.005    | 10.005 | 1...H1-1b |
| 40     | M99   | HSS3X3X5   | .219     | 2.157 | 6           | .095    | 0     | z  | 8          | 107311...  | 121716    | 10.005    | 10.005 | 1...H1-1b |
| 41     | MP4C  | PIPE 2.0   | .232     | 4.302 | 12          | .101    | 3.063 |    | 1          | 17855.0... | 32130     | 1.872     | 1.872  | 2...H1-1b |
| 42     | MP3C  | PIPE 2.0   | .480     | 4.302 | 7           | .093    | 4.302 |    | 4          | 17855.0... | 32130     | 1.872     | 1.872  | 1...H1-1b |
| 43     | MP2C  | PIPE 2.0   | .418     | 5.333 | 10          | .176    | 5.333 |    | 1          | 14916.0... | 32130     | 1.872     | 1.872  | 1...H1-1b |

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

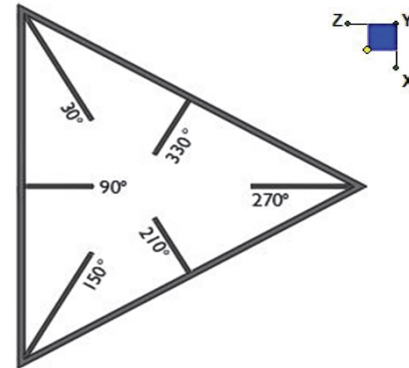
| Member | Shape | Code Check | Loc[...] | LC    | Shear Check | Loc[ft] | Dir    | LC | phi*Pnc... | phi*Pnt... | phi*Mn... | phi*Mn... | Cb    | Eqn   |        |
|--------|-------|------------|----------|-------|-------------|---------|--------|----|------------|------------|-----------|-----------|-------|-------|--------|
| 44     | MP1C  | PIPE 2.0   | .250     | 1.385 | 2           | .112    | 1.385  | 3  | 17855.0... | 32130      | 1.872     | 1.872     | 2..   | H1-1b |        |
| 45     | MP4B  | PIPE 2.0   | .206     | 4.302 | 8           | .102    | 1.385  | 10 | 17855.0... | 32130      | 1.872     | 1.872     | 2..   | H1-1b |        |
| 46     | MP3B  | PIPE 2.0   | .474     | 4.302 | 3           | .105    | 4.302  | 12 | 17855.0... | 32130      | 1.872     | 1.872     | 2..   | H1-1b |        |
| 47     | MP2B  | PIPE 2.0   | .507     | 2.333 | 11          | .182    | 5.333  | 10 | 14916.0... | 32130      | 1.872     | 1.872     | 1..   | H1-1b |        |
| 48     | MP1B  | PIPE 2.0   | .290     | 1.385 | 11          | .132    | 1.385  | 11 | 17855.0... | 32130      | 1.872     | 1.872     | 2..   | H1-1b |        |
| 49     | OVP   | PIPE 2.0   | .107     | 2     | 4           | .017    | 2      | 4  | 28843.4... | 32130      | 1.872     | 1.872     | 2..   | H1-1b |        |
| 50     | M100  | PIPE 2.5   | .216     | 1.604 | 11          | .151    | 12.542 | 7  | 11606.2... | 50715      | 3.596     | 3.596     | 3..   | H1-1b |        |
| 51     | M107  | PIPE 2.5   | .191     | 1.604 | 6           | .142    | 12.542 | 3  | 11606.2... | 50715      | 3.596     | 3.596     | 3..   | H1-1b |        |
| 52     | M114  | PIPE 2.5   | .215     | 9.917 | 11          | .169    | 12.542 | 11 | 11606.2... | 50715      | 3.596     | 3.596     | 2..   | H1-1b |        |
| 53     | M117  | L3X3X4     | .401     | 0     | 11          | .038    | 0      | y  | 11         | 42943.7... | 46656     | 1.688     | 3.756 | 2..   | H2-1   |
| 54     | M118  | L3X3X4     | .358     | 0     | 3           | .033    | 0      | y  | 9          | 42943.7... | 46656     | 1.688     | 3.756 | 2..   | H2-1   |
| 55     | M119  | L3X3X4     | .375     | 0     | 7           | .034    | 0      | y  | 7          | 42943.7... | 46656     | 1.688     | 3.756 | 2..   | H2-1   |
| 56     | M121  | LL3x3x3x3  | .144     | 4.108 | 13          | .005    | 4.108  | z  | 3          | 47942.8... | 70632     | 5.543     | 3.751 | 1     | H1-1b* |
| 57     | M123  | LL3x3x3x3  | .140     | 4.108 | 21          | .005    | 4.108  | z  | 11         | 47942.8... | 70632     | 5.543     | 3.751 | 1     | H1-1b* |
| 58     | M125A | LL3x3x3x3  | .143     | 4.108 | 17          | .005    | 0      | z  | 7          | 47942.8... | 70632     | 5.543     | 3.751 | 1     | H1-1b* |



## I. Mount-to-Tower Connection Check

### RISA Model Data

| Nodes<br>(labeled per RISA) | Orientation<br>(per graphic of typical platform) |
|-----------------------------|--|
| N169A                       | 30   |
| N171A                       | 150  |
| N2                          | 270  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |
|                             |  |



TYPICAL PLATFORM

### Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

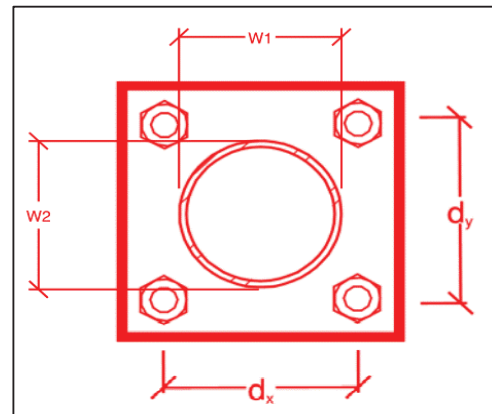
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

|        |
|--------|
| yes    |
| 4      |
| 4      |
| 4      |
| A325N  |
| 0.625  |
| 15.1   |
| 5.5    |
| 20.7   |
| 12.4   |
| 18.2%* |
| 11.1%  |



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

### Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

$t_{plate}$  (in):

Weld Size (1/16 in):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

|       |
|-------|
| Rect  |
| 6     |
| 6     |
| 3     |
| 3     |
| 36    |
| 0.75  |
| 4     |
| 5.57  |
| 2.11  |
| 15.6% |
| 37.9% |

### Max Plate Bending Strengths

|                                    |      |
|------------------------------------|------|
| $M_{u_{xx}}$ (kip-in) :            | 1.8  |
| $\Phi \cdot M_{n_{xx}}$ (kip-in) : | 27.3 |
| $M_{u_{yy}}$ (kip-in) :            | 2.5  |
| $\Phi \cdot M_{n_{yy}}$ (kip-in) : | 27.3 |

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

## Documents & Photos Required from Contractor – Mount Modification

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

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

---

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

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

### **Base Requirements:**

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

### **Photo Requirements:**

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

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

**Material Certification:**

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
    - If the materials are as specified on the drawings
      - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
      - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
    - If seeking permission to use an equivalent
      - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.
  - All hardware has been properly installed, and the existing hardware was inspected.
  - The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.
- OR
- The material utilized was approved by a SMART Tool as an "equivalent" and this approval is included as part of the contractor submission.

**Antenna & equipment placement and Geometry Confirmation:**

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

OR

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

**Comments:**

Install new OVP units onto new equipment pipe on the existing standoff horizontal between the Beta and Gamma sectors as detailed in the Mount Modification Drawings.

**Certifying Individual:**

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

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

Yes       No

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

**Issue:**

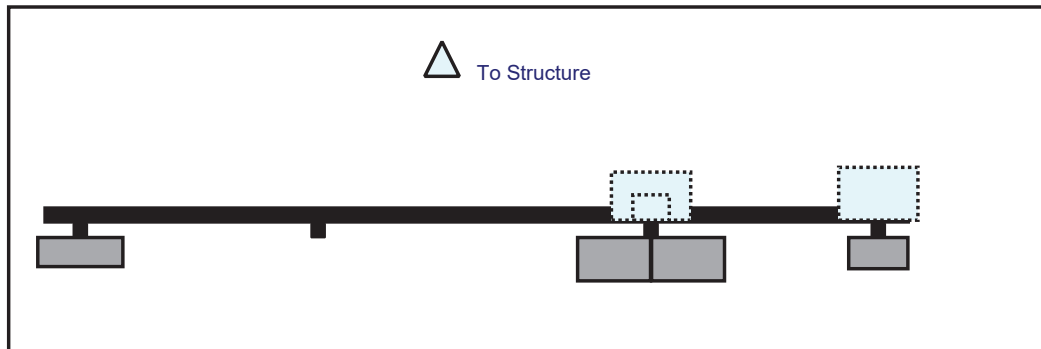
**Response:**

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

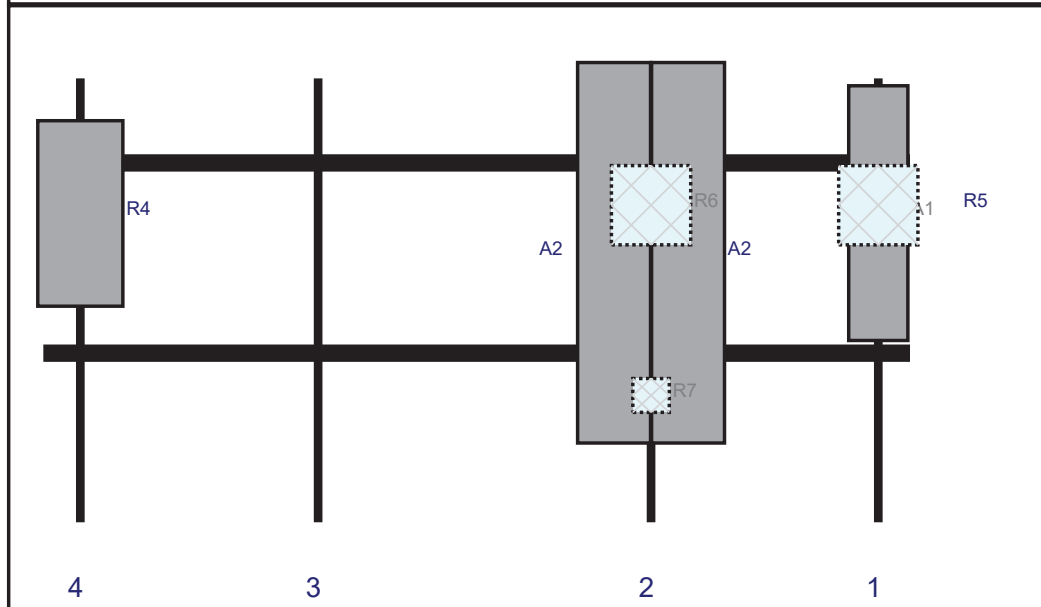
Yes       No

**Comments:**

Plan View

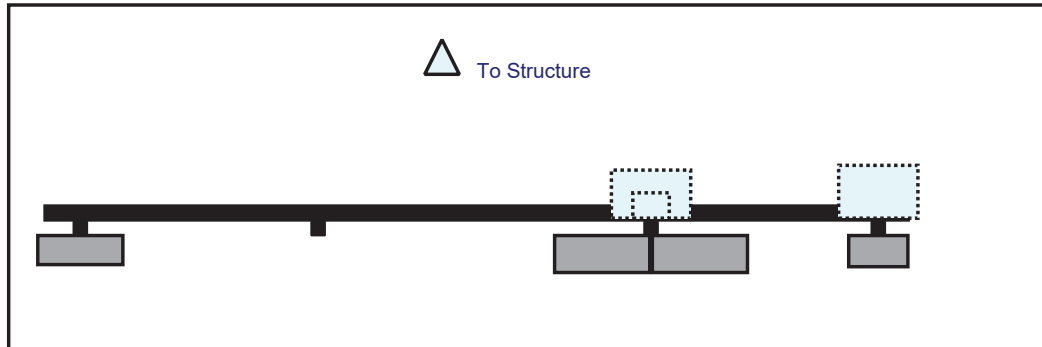


Front View  
Looking at Structure

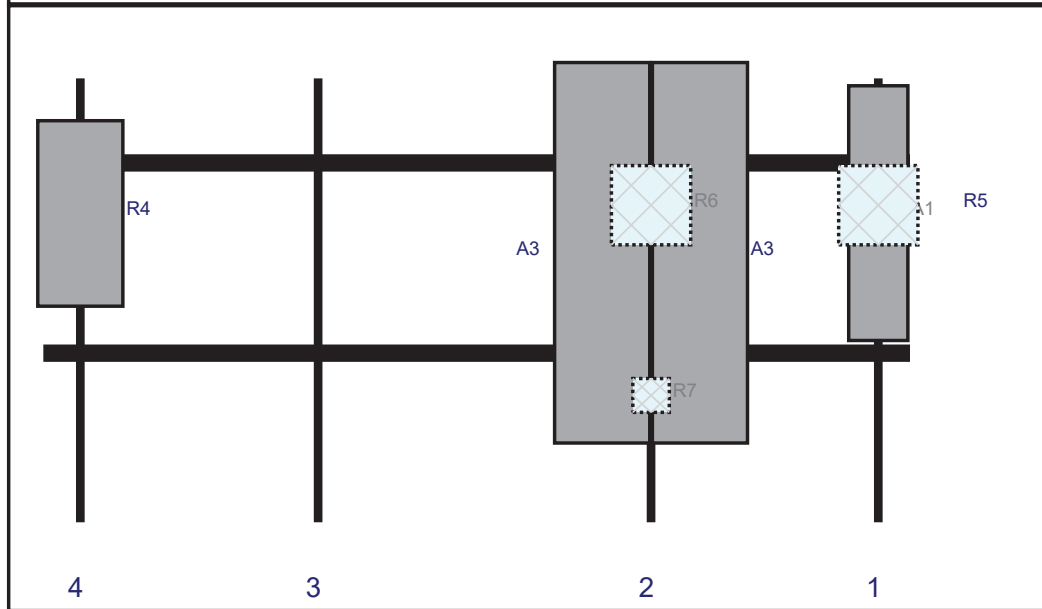


| Ref# | Model           | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|-----------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A1   | BXA-80080/4CF   | 48.2        | 11.2       | 158           | 1      | a          | Front   | 25.5          | 0         | Retained | 08/17/2021 |
| R5   | RF4439d-25A     | 15          | 15         | 158           | 1      | a          | Behind  | 24            | 0         | Added    |            |
| A2   | JAHH-65B-R3B    | 72          | 13.8       | 115           | 2      | a          | Front   | 33            | 7         | Added    |            |
| A2   | JAHH-65B-R3B    | 72          | 13.8       | 115           | 2      | b          | Front   | 33            | -7        | Added    |            |
| R6   | RF4440d-13A     | 15          | 15         | 115           | 2      | a          | Behind  | 24            | 0         | Added    |            |
| R7   | CBC78T-DS-43-2X | 6.4         | 6.9        | 115           | 2      | a          | Behind  | 60            | 0         | Added    |            |
| R4   | MT6407-77A      | 35.1        | 16.1       | 7             | 4      | a          | Front   | 25.56         | 0         | Added    |            |

Plan View



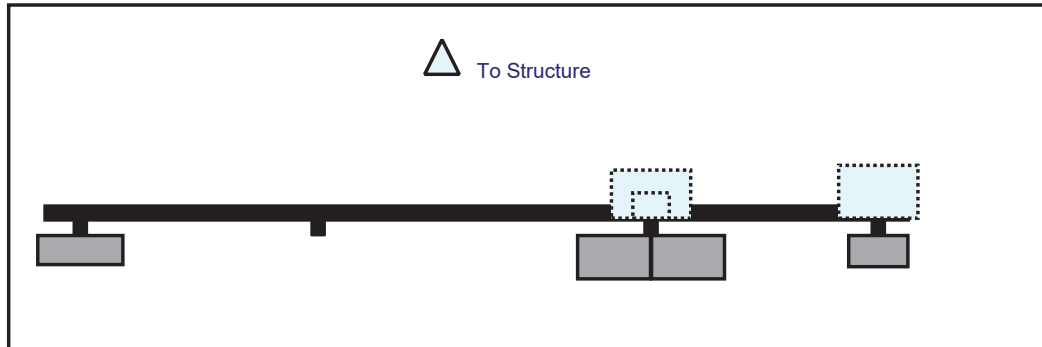
Front View  
Looking at Structure



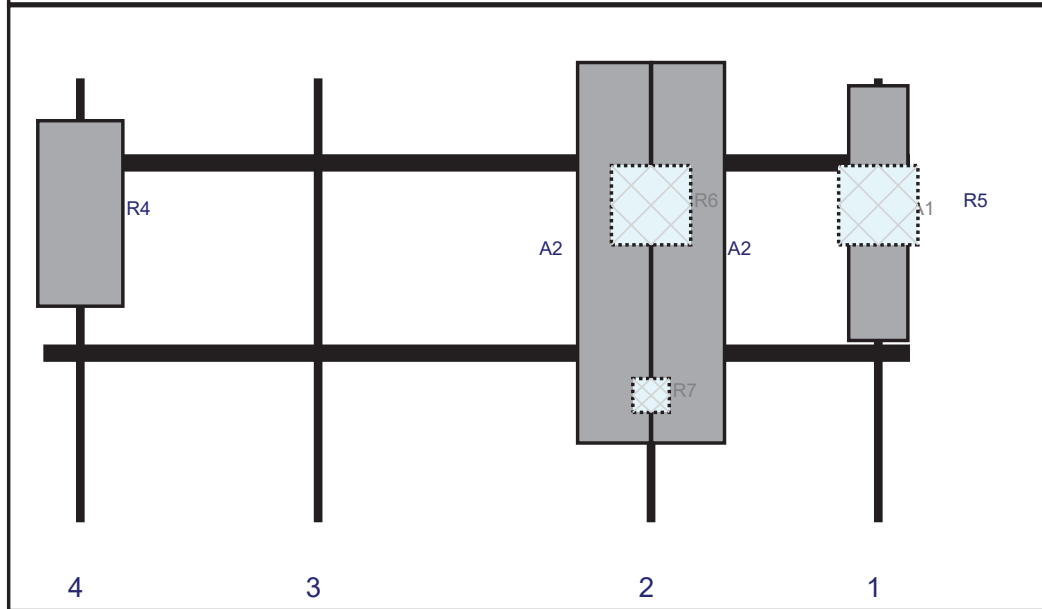
| Ref# | Model           | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|-----------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A1   | BXA-80080/4CF   | 48.2        | 11.2       | 158           | 1      | a          | Front   | 25.5          | 0         | Retained | 08/17/2021 |
| R5   | RF4439d-25A     | 15          | 15         | 158           | 1      | a          | Behind  | 24            | 0         | Added    |            |
| A3   | JAHH-45B-R3B    | 72          | 18         | 115           | 2      | a          | Front   | 33            | 9.25      | Added    |            |
| A3   | JAHH-45B-R3B    | 72          | 18         | 115           | 2      | b          | Front   | 33            | -9.25     | Added    |            |
| R6   | RF4440d-13A     | 15          | 15         | 115           | 2      | a          | Behind  | 24            | 0         | Added    |            |
| R7   | CBC78T-DS-43-2X | 6.4         | 6.9        | 115           | 2      | a          | Behind  | 60            | 0         | Added    |            |
| R4   | MT6407-77A      | 35.1        | 16.1       | 7             | 4      | a          | Front   | 25.56         | 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 |
|------|-----------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| A1   | BXA-80080/4CF   | 48.2        | 11.2       | 158           | 1      | a          | Front   | 25.5          | 0         | Retained | 08/17/2021 |
| R5   | RF4439d-25A     | 15          | 15         | 158           | 1      | a          | Behind  | 24            | 0         | Added    |            |
| A2   | JAHH-65B-R3B    | 72          | 13.8       | 115           | 2      | a          | Front   | 33            | 7         | Added    |            |
| A2   | JAHH-65B-R3B    | 72          | 13.8       | 115           | 2      | b          | Front   | 33            | -7        | Added    |            |
| R6   | RF4440d-13A     | 15          | 15         | 115           | 2      | a          | Behind  | 24            | 0         | Added    |            |
| R7   | CBC78T-DS-43-2X | 6.4         | 6.9        | 115           | 2      | a          | Behind  | 60            | 0         | Added    |            |
| R4   | MT6407-77A      | 35.1        | 16.1       | 7             | 4      | a          | Front   | 25.56         | 0         | Added    |            |

# Maser Consulting Connecticut

**Subject**

TIA-222-H Usage

**Site Information**

*Site ID:* 468078-VZW / OLD SAYBROOK CT  
*Site Name:* OLD SAYBROOK CT  
*Carrier Name:* Verizon Wireless  
*Address:* 170 Ingham Hill Rd.  
Old Saybrook, Connecticut 06475  
Middlesex County  
*Latitude:* 41.309818°  
*Longitude:* -72.396749°

**Structure Information**

*Tower Type:* 150-Ft Monopole  
*Mount Type:* 13.67-Ft Platform

**FUZE ID # 16272025**

To Whom It May Concern,

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

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

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

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

Sincerely,



Derek Hartzell, PE  
Technical Specialist

# Exhibit F

## **Power Density/RF Emissions Report**

Site Name: **OLD SAYBROOK 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 <sup>2</sup> )    | (mW/cm <sup>2</sup> )         | (%)             |
| VZW 700      | 751                 | 4                | 1007           | 4028      | 133                | 0.0082                   | 0.5007                        | 1.64%           |
| VZW CDMA     | 877.26              | 2                | 315            | 630       | 133                | 0.0013                   | 0.5848                        | 0.22%           |
| VZW Cellular | 874                 | 4                | 499            | 1994      | 133                | 0.0041                   | 0.5827                        | 0.70%           |
| VZW PCS      | 1975                | 4                | 2254           | 9017      | 133                | 0.0183                   | 1.0000                        | 1.83%           |
| VZW AWS      | 2120                | 4                | 2466           | 9864      | 133                | 0.0201                   | 1.0000                        | 2.01%           |
| VZW CBAND    | 3730.08             | 2                | 21627          | 43254     | 133                | 0.0879                   | 1.0000                        | 8.79%           |
|              |                     |                  |                |           |                    |                          |                               |                 |
|              |                     |                  |                |           |                    |                          |                               |                 |
|              |                     |                  |                |           |                    |                          |                               |                 |
|              |                     |                  |                |           |                    |                          |                               |                 |

**Total Percentage of Maximum Permissible Exposure** 15.18%

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


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

MHz = Megahertz  
 mW/cm<sup>2</sup> = milliwatts per square centimeter  
 ERP = Effective Radiated Power

Absolute worst case maximum values used.

# Exhibit F

## **Recipient Mailings**



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**P**

usps.com 9405 5036 9930 0135 4996 55 0089 5000 0010 1581  
**\$8.95**  
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01/13/2022 Mailed from 01566

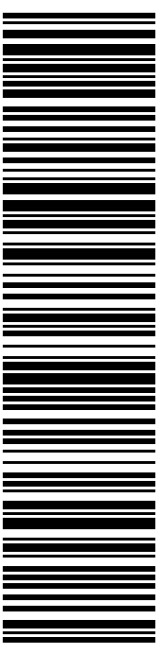
**PRIORITY MAIL 1-DAY™**

Expected Delivery Date: 01/14/22  
 Ret#: CR-941289  
**0006**

**C006**

SHIP TO:  
 SARAH SNELL  
 1800 W PARK DR  
 WESTBOROUGH MA 01581-3926

**USPS TRACKING #**



**9405 5036 9930 0135 4996 55**

Electronic Rate Approved #038555749



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### Instructions

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2. Place your label so it does not wrap around the edge of the package.
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| Trans. #: 553988609                | Priority Mail® Postage: <b>\$8.95</b> |
| Print Date: 01/13/2022             | Total: <b>\$8.95</b>                  |
| Ship Date: 01/13/2022              |                                       |
| Expected Delivery Date: 01/14/2022 |                                       |


**From:** DEBORAH CHASE      Ref#: CR-841289  
 NORTHEAST SITE SOLUTIONS  
 420 MAIN ST  
 STE 1  
 STURBRIDGE MA 01566-1359

**To:** SARAH SNELL  
 1800 W PARK DR  
 WESTBOROUGH MA 01581-3926

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 Ref#: CR-841289  
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DEBORAH CHASE  
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 420 MAIN ST  
 STE 1  
 STURBRIDGE MA 01566-1359

**C011**

SHIP TO: CARL P FORTUNA  
 FIRST SELECTMAN  
 302 MAIN ST  
 OLD SAYBROOK CT 06475-2384

**USPS TRACKING #**



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|                                    |                                       |
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| Print Date: 01/13/2022             | Total: <b>\$8.95</b>                  |
| Ship Date: 01/13/2022              |                                       |
| Expected Delivery Date: 01/18/2022 |                                       |


**From:** DEBORAH CHASE      Ref#: CR-841289  
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**To:** CARL P FORTUNA  
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**C011**

SHIP  
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 CZEO  
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 OLD SAYBROOK CT 06475-2384

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|------------------------------------|---------------------------------------|
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| Print Date: 01/13/2022             | Total: <b>\$8.95</b>                  |
| Ship Date: 01/13/2022              |                                       |
| Expected Delivery Date: 01/18/2022 |                                       |

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 420 MAIN ST  
 STE 1  
 STURBRIDGE MA 01566-1359

Ref#: CR-841289


**To:** CHRISTINA M COSTA  
 CZEO  
 302 MAIN ST  
 OLD SAYBROOK CT 06475-2384

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**PRIORITY MAIL 2-DAY™**


Expected Delivery Date: 01/18/22  
 Ref#: CR-941289  
**0006**

DEBORAH CHASE  
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 STE 1  
 STURBRIDGE MA 01566-1359

**B003**

SHIP TO:  
 CAROL & ROBERT LORENZ  
 PO BOX 351  
 CTR OSSIPPEE NH 03814-0351

**USPS TRACKING #**



**9405 5036 9930 0135 4996 93**

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|                                    |                                       |
|------------------------------------|---------------------------------------|
| Trans. #: 553988609                | Priority Mail® Postage: <b>\$8.95</b> |
| Print Date: 01/13/2022             | Total: <b>\$8.95</b>                  |
| Ship Date: 01/13/2022              |                                       |
| Expected Delivery Date: 01/18/2022 |                                       |

**From:** DEBORAH CHASE      Ref#: CR-841289  
 NORTHEAST SITE SOLUTIONS  
 420 MAIN ST  
 STE 1  
 STURBRIDGE MA 01566-1359

**To:** CAROL & ROBERT LORENZ  
 PO BOX 351  
 CTR OSSIPPEE NH 03814-0351

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841289



FARMINGTON  
210 MAIN ST  
FARMINGTON, CT 06032-9998  
(800)275-8777

01/13/2022 04:42 PM

| Product | Qty | Unit Price | Price |
|---------|-----|------------|-------|
|---------|-----|------------|-------|

|                             |   |  |        |
|-----------------------------|---|--|--------|
| Prepaid Mail                | 1 |  | \$0.00 |
| Old Saybrook, CT 06475      |   |  |        |
| Weight: 0 lb 8.80 oz        |   |  |        |
| Acceptance Date:            |   |  |        |
| Thu 01/13/2022              |   |  |        |
| Tracking #:                 |   |  |        |
| 9405 5036 9930 0135 4996 79 |   |  |        |

|                             |   |  |        |
|-----------------------------|---|--|--------|
| Prepaid Mail                | 1 |  | \$0.00 |
| Westborough, MA 01581       |   |  |        |
| Weight: 0 lb 1.90 oz        |   |  |        |
| Acceptance Date:            |   |  |        |
| Thu 01/13/2022              |   |  |        |
| Tracking #:                 |   |  |        |
| 9405 5036 9930 0135 4996 55 |   |  |        |

|                             |   |  |        |
|-----------------------------|---|--|--------|
| Prepaid Mail                | 1 |  | \$0.00 |
| Old Saybrook, CT 06475      |   |  |        |
| Weight: 0 lb 8.80 oz        |   |  |        |
| Acceptance Date:            |   |  |        |
| Thu 01/13/2022              |   |  |        |
| Tracking #:                 |   |  |        |
| 9405 5036 9930 0135 4996 86 |   |  |        |

|                             |   |  |        |
|-----------------------------|---|--|--------|
| Prepaid Mail                | 1 |  | \$0.00 |
| Center Ossipee, NH 03814    |   |  |        |
| Weight: 1 lb 1.60 oz        |   |  |        |
| Acceptance Date:            |   |  |        |
| Thu 01/13/2022              |   |  |        |
| Tracking #:                 |   |  |        |
| 9405 5036 9930 0135 4996 93 |   |  |        |

|              |  |  |        |
|--------------|--|--|--------|
| Grand Total: |  |  | \$0.00 |
|--------------|--|--|--------|

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 USPS is experiencing unprecedented volume  
 increases and limited employee  
 availability due to the impacts of  
 COVID-19. We appreciate your patience.