

August 10, 2023

*Via Electronic Mail*

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

Re: **Notice of Exempt Modification – Facility Modification  
219 New Park Avenue, Hartford, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads at the top of the existing tower. Equipment associated with the antenna is located in a shelter near the base of the tower. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in March of 2009 (Petition No. 889). A copy of the Council’s Petition No. 889 Staff Report is included in Attachment 1.

Cellco now intends to modify its facility by removing five (5) existing antenna and installing two (2) new Samsung MT6413-77A antennas on the existing antenna mounting structure. A set of project plans showing Cellco’s proposed facility modifications and specifications for the new antennas are included in Attachment 2.

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

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

# Robinson+Cole

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

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

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Luke Bronin, Mayor for the City of Hartford  
Erin Howard, Acting Director of Planning  
Connecticut Light and Power, the Property Owner  
Sharon Home, Verizon Wireless

# **ATTACHMENT 1**

Petition No. 889  
Verizon Wireless  
219 New Park Avenue, Hartford  
Staff Report  
March 12, 2009

On February 10, 2009, the Connecticut Siting Council received a Petition (Petition) from Celco Partnership d/b/a Verizon Wireless (Verizon Wireless) for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is Required for the proposed modifications to an existing 98-foot Crown Castle-owned monopole located at 219 New Park Avenue, Hartford. Specifically, Verizon Wireless seeks to extend the tower by ten feet from 98 feet to 108 feet and T-arm-mount 12 panel antennas at the 108-foot level of the tower. The total height with appurtenances would be approximately 110 feet.

Verizon Wireless also seeks to install a 12-foot by 30-foot equipment shelter (with a backup generator inside) in the southeast corner of the fenced compound. Verizon Wireless would remove the fencing along two sides of the equipment shelter to allow it to fit in the compound. In addition, Verizon Wireless would install a 20-foot by 20-foot fenced area to extend the compound. The compound extension would accommodate the 1,000 gallon propane tank which would fuel the backup generator.

A Professional Engineer duly licensed in the State of Connecticut has certified that the tower will require reinforcements to support the proposed loading. The maximum worst case power density would be 38.7 percent of the applicable limit.

The tower is located on the property of an existing Connecticut Light and Power Company (CL&P) substation. Surrounding land use is largely commercial in nature. The site is wooded. There are no wetlands at the site. However, some limited clearing and grading would be necessary to accommodate the expansion of the compound.

According to the visibility analysis, the tower is currently visible from 54 acres within the study area. This would increase to 69 acres. However, the additional 15 acres of visibility would be expansions of existing areas of visibility. No new areas would experience visibility of the tower. The tower is currently visible from Park Avenue North, Francis Avenue, Francis Court, and Prospect Avenue per the visibility analysis. Visibility would increase in those areas due to the tower extension.

This Petition was field reviewed on March 9, 2009 by Council member Brian Golembiewski and Michael Perrone of the Council staff. Rachel Mayo, Land Use Analyst, from Robinson & Cole LLP, representing Verizon Wireless, also attended the field review.

Verizon Wireless provided notice to the City of Hartford, the property owner (CL&P), and all abutters at or about the time of filing. Verizon Wireless received one inquiry from Burger King Corporation to verify which of its properties is in proximity to the tower. However, there was no opposition to the proposal. No other replies were received.

If approved, staff recommends that a construction grading plan be submitted to the Council prior to construction.

# **ATTACHMENT 2**



**VERIZON SITE NUMBER:** 5000393349  
**VERIZON SITE NAME:** WEST HARTFORD 4 CT  
**SITE TYPE:** MONOPOLE  
**TOWER HEIGHT:** 108'-0"

**BUSINESS UNIT #:** 876363  
**SITE ADDRESS:** 219 NEW PARK RD.  
 HARTFORD, CT 06106  
**COUNTY:** HARTFORD  
**JURISDICTION:** CITY OF HARTFORD

### VERIZON ANTENNA SWAP



**VERIZON SITE NUMBER:** 5000393349  
**BU #:** 876363  
**HARTFORD - NU (SSUSA)**  
 219 NEW PARK RD.  
 HARTFORD, CT 06106  
 EXISTING 108'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES/QA
0	06/12/2023	ADE	CONSTRUCTION	AH
1	06/26/2023	ADE	CONSTRUCTION	AH
2	07/19/2023	JMB	CONSTRUCTION	AH

07/19/2023

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.

<b>SHEET NUMBER:</b> T-1	<b>REVISION:</b> 2
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SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	HARTFORD - NU (SSUSA)
SITE ADDRESS:	219 NEW PARK RD. HARTFORD, CT 06106
COUNTY:	HARTFORD
MAP/PARCEL #:	138472001
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 45' 2.79"
LONGITUDE:	-72° 42' 49.23"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	68 FT
CURRENT ZONING:	NOT REQUIRED
JURISDICTION:	CITY OF HARTFORD
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CONN LIGHT & POWER CO PO BOX 270 HARTFORD, CT 06141
TOWER OWNER:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	NORTHEAST UTILITIES (800) 286-2000
TELCO PROVIDER:	LIGHTOWER (888) 583-4237

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	EQUIPMENT DETAILS
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.

**LOCATION MAP**

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY RD, BEDMINSTER, NJ 07921)

- TAKE US-202 N/US-206 N AND SCHLEY MOUNTAIN RD TO I-287 N
- CONTINUE ON I-287 N. TAKE I-80 E, I-87 N, HUTCHINSON RIVER PKWY N, CT-15 N AND I-91 N TO I-84 IN HARTFORD

APPROVALS	
SIGNATURE	DATE
_____	_____
_____	_____
_____	_____

**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	2022 CT STATE BUILDING CODE/2021 IBC W/ CT AMENDMENTS
MECHANICAL	2022 CT STATE BUILDING CODE/2021 IMC W/ CT AMENDMENTS
ELECTRICAL	2022 CT STATE BUILDING CODE/2020 NEC W/ CT AMENDMENTS

**REFERENCE DOCUMENTS:**

STRUCTURAL ANALYSIS: CROWN CASTLE USA INC.  
 DATED: JUNE 16, 2023

MOUNT ANALYSIS: COLLIER'S ENGINEERING & DESIGN CT, P.C.  
 DATED: JUNE 28, 2023

ORDER ID: 651131  
 REVISION: 0

**NOTE:**  
 PLANS WERE PREPARED WITH THE LATEST CODES. (PREPARED IN ACCORDANCE WITH THE ANSI/TIA-222 H AND THE LATEST 2022 CT STATE BUILDING CODE)

CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!

**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 (5) ANTENNAS
- RELOCATE (1) ANTENNA
- RELOCATE (6) RRHS
- INSTALL (2) ANTENNAS

**GROUND SCOPE OF WORK:**

- NONE

**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:	POWER OF DESIGN 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 (502) 437-5252
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065
	HEATHER PHILLIPS - PROJECT MANAGER HEATHER.PHILLIPS@CROWNCastle.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCastle.COM
	DAVID SOEDER - A&E SPECIALIST DAVID.SOEDER@CROWNCastle.COM
VERIZON CONTACT:	TIMOTHY PARKS TIMOTHY.PARKS@VERIZONWIRELESS.COM

CONTRACTOR PMI REQUIREMENTS	
PMI ACCESSED AT	<a href="https://pmi.vzwsmart.com">https://pmi.vzwsmart.com</a>
SMART TOOL VENDOR	
PROJECT NUMBER	102033995
VzW LOCATION CODE (PSLC)	467794

\*\*\* PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

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

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED - NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER...
2. "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION...
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED...
4. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR...
5. ALL SITE WORK TO COMPLY WITH QAS-STD-1006B "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE..."

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: VERIZON TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES...
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION...
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS...
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS...
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK...
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS...
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE...
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION...
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS...
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC...
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY...
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE, NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT APPROVED BY THE ENGINEER OF RECORD...
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADJUTIVES...
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615, ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185...
6. #4 BARS AND SMALLER... 40 ksi #5 BARS AND LARGER... 60 ksi THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH... 3" CONCRETE EXPOSED TO EARTH OR WEATHER: #4 BARS AND SMALLER... 2" #5 BARS AND LARGER... 1-1/2" #6 BARS AND LARGER... 2" #7 BARS AND SMALLER... 1-1/2" #8 BARS AND LARGER... 3/4" #9 BARS AND LARGER... 1-1/2" BEAMS AND COLUMNS... 1-1/2" A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAYS AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED...
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL)...
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOD TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS...
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED...
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED...
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED...
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED...
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE)...
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MCC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED, SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREFORM SPECIMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS...
24. DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED...
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING...
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS...
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS...
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY...
29. INSTALL LAMICOD LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METEERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE table with columns: SYSTEM, CONDUCTOR, COLOR. Rows include 120/240V, 1Ø and 120/208V, 3Ø systems with A, B, C phase and neutral colors.

APWA UNIFORM COLOR CODE table with columns: COLOR, PROPOSED EXCAVATION, TEMPORARY SURVEY MARKINGS, ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES, GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS, COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS, POTABLE WATER, RECLAIMED WATER, IRRIGATION, AND SLURRY LINES, SEWERS AND DRAIN LINES.

GREENFIELD GROUNDING NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND B1) FOR GROUND ELECTRODE SYSTEMS...
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR...
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES...
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED...
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED...
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS...
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED...
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE...
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS...
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS...
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR...
15. APPROVED ANTI-OXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS...
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL...
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC...
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR...
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR...
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT...
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM...
22. LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ABBREVIATIONS:

Table of abbreviations: ANT (ANTENNA), EX (EXISTING), FIF (FACILITY INTERFACE FRAME), GEN (GENERATOR), GPS (GLOBAL POSITIONING SYSTEM), GSM (GLOBAL SYSTEM FOR MOBILE), LTE (LONG TERM EVOLUTION), MCB (MASTER GROUND BAR), MW (MICROWAVE), N (NEW), NEC (NATIONAL ELECTRIC CODE), P (PROPOSED), PP (POWER PLANT), QTY (QUANTITY), RECT (RECTIFIER), RBS (RADIO BASE STATION), RET (REMOTE ELECTRIC TILT), RFBS (RADIO FREQUENCY DATA SHEET), RRH (REMOTE RADIO HEAD), RRU (REMOTE RADIO UNIT), SIAD (SMART INTEGRATED DEVICE), TMA (TOWER MOUNTED AMPLIFIER), TYP (TYPICAL), UMS (UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM), W.P. (WORK POINT).



20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492



3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065



11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252

VERIZON SITE NUMBER: 5000393349

BU #: 876363 HARTFORD - NU (SSUSA)

219 NEW PARK RD. HARTFORD, CT 06106

EXISTING 108'-0" MONOPOLE

ISSUED FOR:

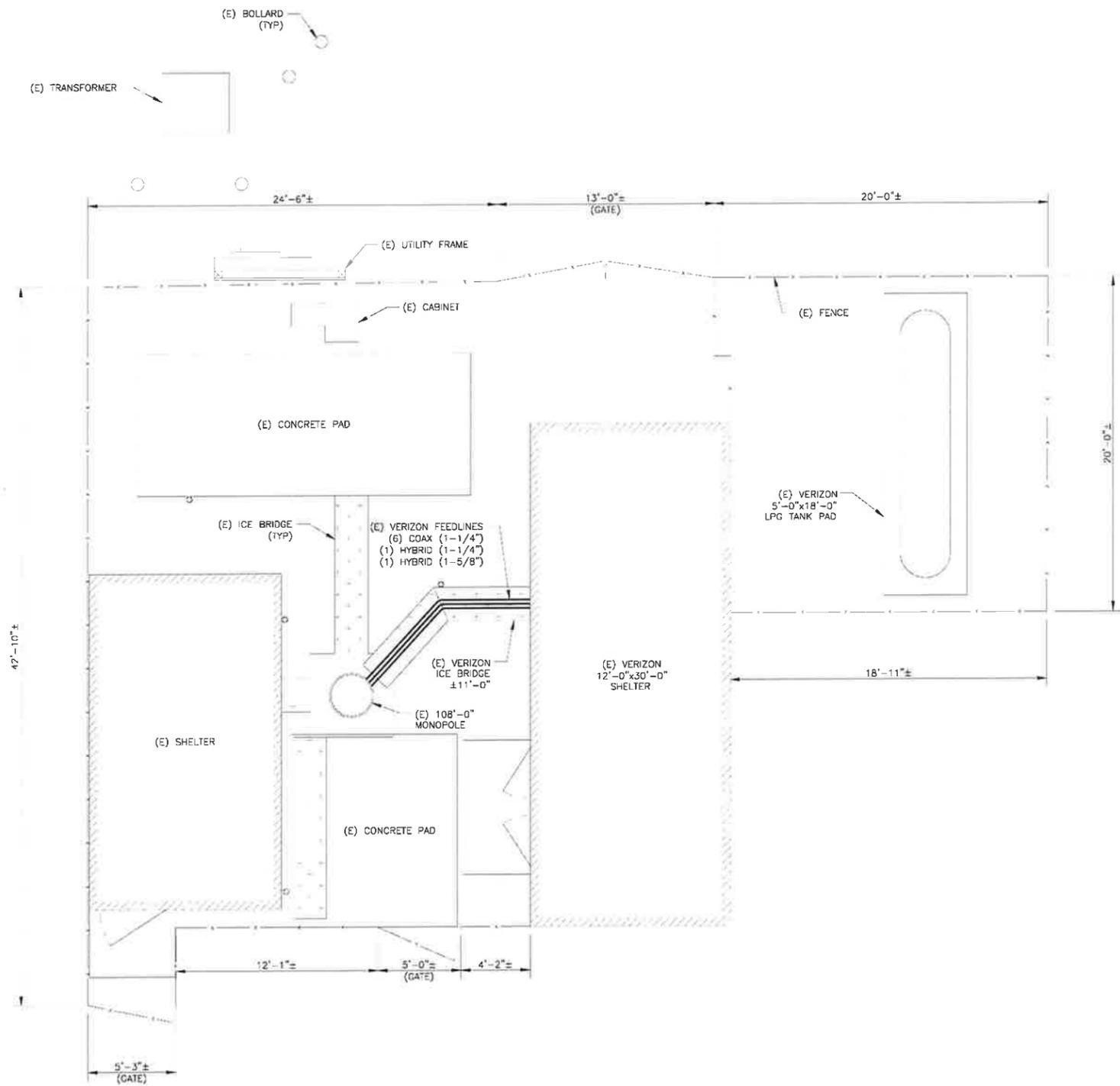
Table with columns: REV, DATE, DRWN, DESCRIPTION, DES/QA. Rows show revision history for construction drawings.



07/19/2023

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SHEET NUMBER: T-2 REVISION: 2



**verizon**  
 20 ALEXANDER DRIVE, 2ND FLOOR  
 WALLINGFORD, CT 06492

**CROWN CASTLE**  
 3 CORPORATE PARK DRIVE, SUITE 101  
 CLIFTON PARK, NY 12065

**POD**  
 POWER OF DESIGN  
 11490 BLUEGRASS PKWY  
 LOUISVILLE, KY 40299  
 502-437-5252

VERIZON SITE NUMBER:  
**5000393349**

BU #: **876363**  
**HARTFORD - NU (SSUSA)**

219 NEW PARK RD.  
 HARTFORD, CT 06106

EXISTING 108'-0" MONOPOLE

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0	06/12/2023	ADE	CONSTRUCTION	AH
1	06/26/2023	ADE	CONSTRUCTION	AH
2	07/19/2023	JMB	CONSTRUCTION	AH



07/19/2023

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SHEET NUMBER: **C-1** REVISION: **2**

1 SITE PLAN  
 SCALE: 1/8"=1'-0" (FULL SIZE)  
 1/8"=1'-0" (11x17)



STRUCTURE W/ APPURTENANCE  
ELEV. = 110'-0"

HEIGHT OF STRUCTURE  
ELEV. = 108'-0"

NEW VERIZON EQUIPMENT  
(2) SAMSUNG - MT6413-77A ANTENNAS  
INSTALLED ON EXISTING MOUNTS

- (E) VERIZON EQUIPMENT
- (6) COMMSCOPE - SBNHH-1D65B ANTENNAS
- (1) SAMSUNG - MT6407-77A ANTENNAS
- (3) SAMSUNG - RFV01U-D1A B2/B66A RRH-BRO49 RRHs
- (3) SAMSUNG - RFV01U-D2A B5/B13 RRH-BRO4C RRHs
- (1) RAYCAP - RVZDC-6627-PF-48 OVP
- (1) RFS/CELWAVE - DBT1-6Z-8AB-OZ OVP  
INSTALLED ON EXISTING MOUNTS

EXISTING VERIZON ACL  
ELEV. = 105'-0"

EXISTING CARRIER MCL  
ELEV. = 98'-0"

EXISTING CARRIER MCL  
ELEV. = 81'-0"

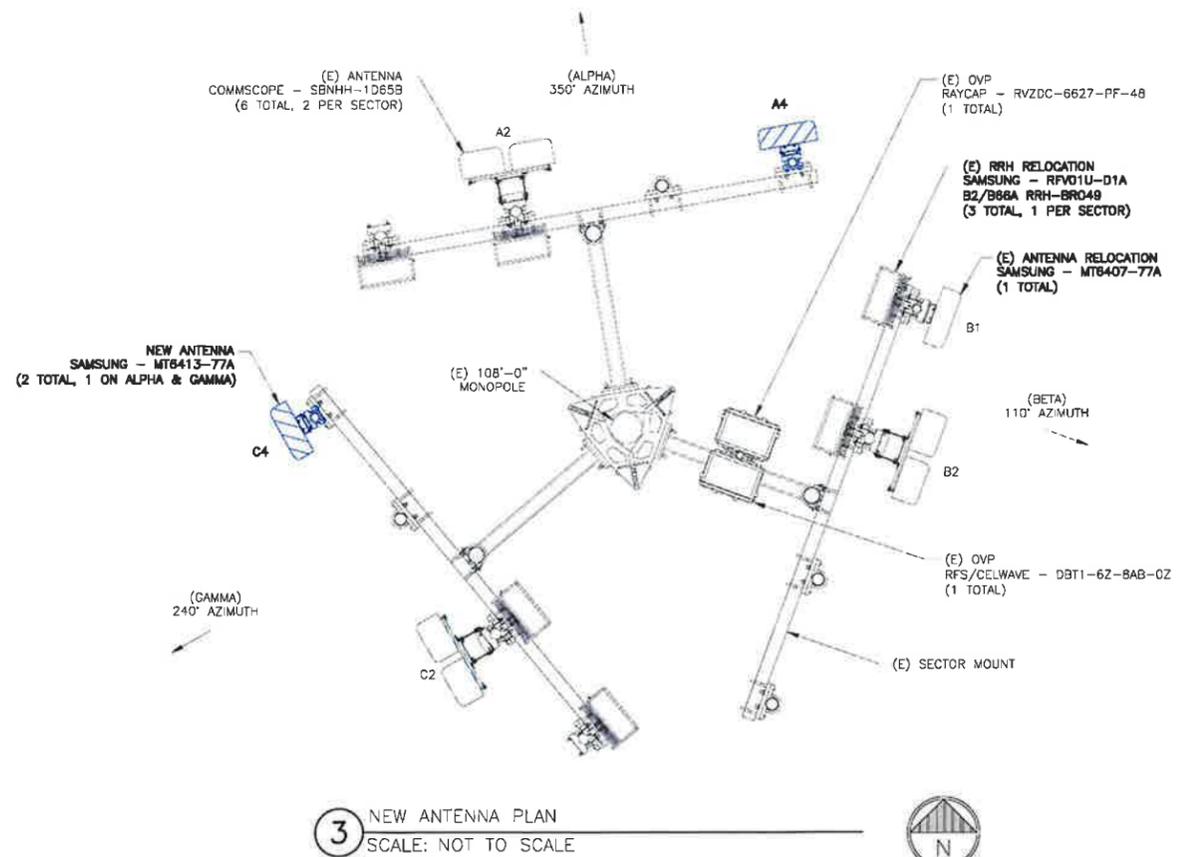
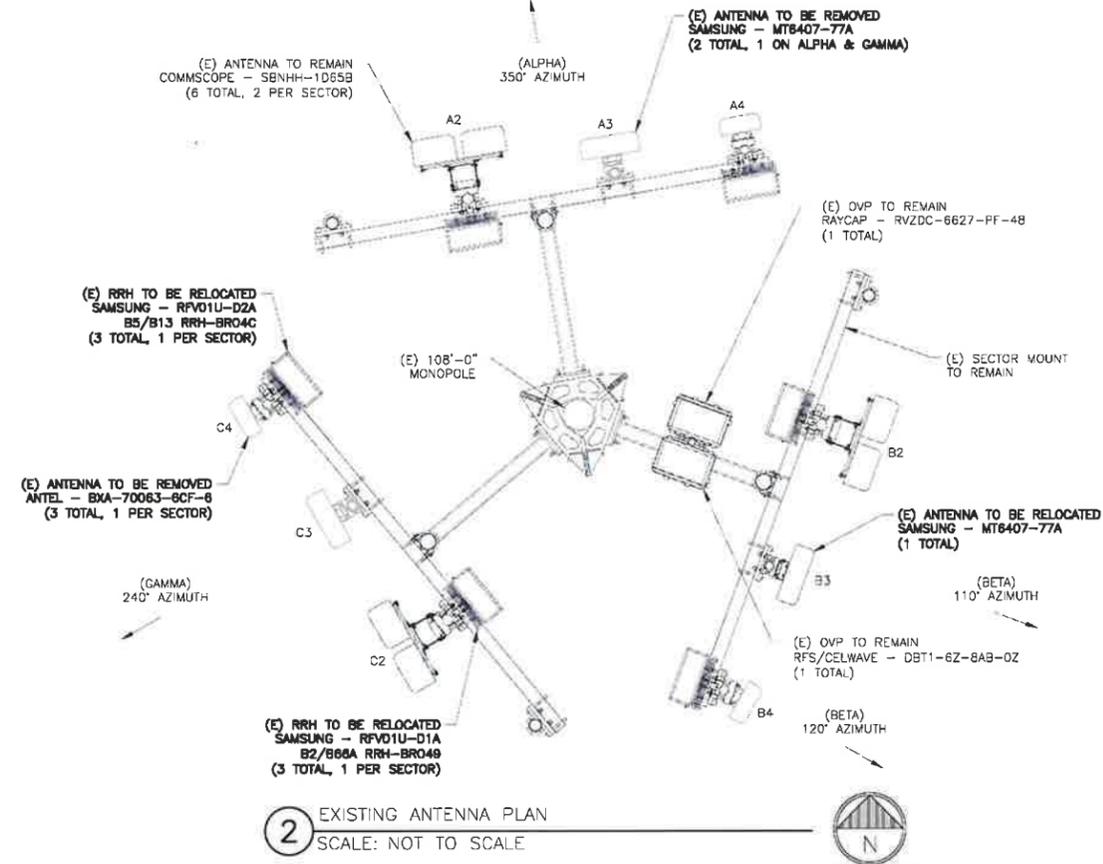
EXISTING CARRIER MCL  
ELEV. = 74'-0"

VERIZON EQUIPMENT  
ANTENNA CL: 105'-0"  
MOUNT CL: 105'-0"

(E) 108'-0" MONOPOLE

(E) VERIZON FEEDLINES  
(6) COAX (1-1/4")  
(1) HYBRID (1-1/4")  
(1) HYBRID (1-5/8")

1 TOWER ELEVATION  
SCALE: NOT TO SCALE



**verizon**  
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**CROWN CASTLE**  
3 CORPORATE PARK DRIVE, SUITE 101  
CLIFTON PARK, NY 12065

**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PKWY  
LOUISVILLE, KY 40299  
502-437-5252

VERIZON SITE NUMBER:  
5000393349

BU #: 876363  
HARTFORD - NU (SSUSA)

219 NEW PARK RD.  
HARTFORD, CT 06106

EXISTING 108'-0" MONOPOLE

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

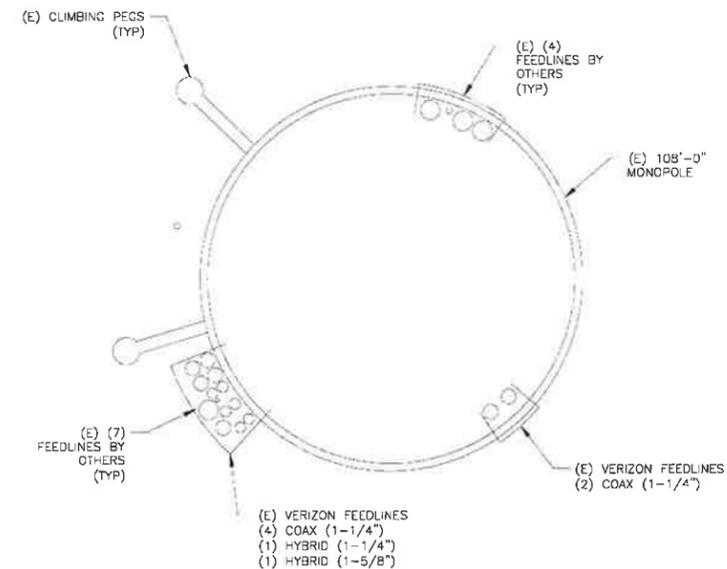
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	-	-	-	-	-	-	-	SAMSUNG	(1) RFV01U-D1A B2/B66A RRH-BR049
A2	EXISTING	COMMSCOPE	(2) SBNHH-1D65B	105'-0"	350°	0'	0°/5°/0° / 0°/5°	SAMSUNG	(1) RFV01U-D2A B5/B13 RRH-BR04C
A3	-	-	-	-	-	-	-	-	-
A4	NEW	SAMSUNG	MT6413-77A	105'-0"	350°	0'	3'	-	-
B1	EXISTING	SAMSUNG	MT6407-77A	105'-0"	110°	0'	3'	SAMSUNG	(1) RFV01U-D1A B2/B66A RRH-BR049
B2	EXISTING	COMMSCOPE	(2) SBNHH-1065B	105'-0"	110°	0'	0°/9°/0° / 0°/9°	SAMSUNG	(1) RFV01U-D2A B5/B13 RRH-BR04C
B3	-	-	-	-	-	-	-	RFS/CELWAVE	(1) DB-T1-6Z-BAB-0Z
B4	-	-	-	-	-	-	-	RAYCAP	(1) RVZDC-6627-PF-4B
C1	-	-	-	-	-	-	-	SAMSUNG	(1) RFV01U-D1A B2/B66A RRH-BR049
C2	EXISTING	COMMSCOPE	(2) SBNHH-1065B	105'-0"	240°	0'	0°/9°/0° / 0°/9°	SAMSUNG	(1) RFV01U-D2A B5/B13 RRH-BR04C
C3	-	-	-	-	-	-	-	-	-
C4	NEW	SAMSUNG	MT6413-77A	105'-0"	240°	0'	3'	-	-

1 VERIZON TOWER EQUIPMENT SCHEDULE  
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-1/4"	155'-0"±	6
EXISTING	HYBRID	1-1/4"	155'-0"±	1
EXISTING	HYBRID	1-5/8"	155'-0"±	1
TOTAL CABLE QTY:				8



2 BASE LEVEL DETAIL  
SCALE: NOT TO SCALE



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SHEET NUMBER: **C-3** REVISION: **2**

**verizon**  
 20 ALEXANDER DRIVE, 2ND FLOOR  
 WALLINGFORD, CT 06492

**CROWN CASTLE**  
 3 CORPORATE PARK DRIVE, SUITE 101  
 CLIFTON PARK, NY 12065

**POD**  
 POWER OF DESIGN  
 11490 BLUEGRASS PKWY  
 LOUISVILLE, KY 40299  
 502-437-5252

VERIZON SITE NUMBER:  
**5000393349**

BU #: **876363**  
**HARTFORD - NU (SSUSA)**

219 NEW PARK RD.  
 HARTFORD, CT 06106

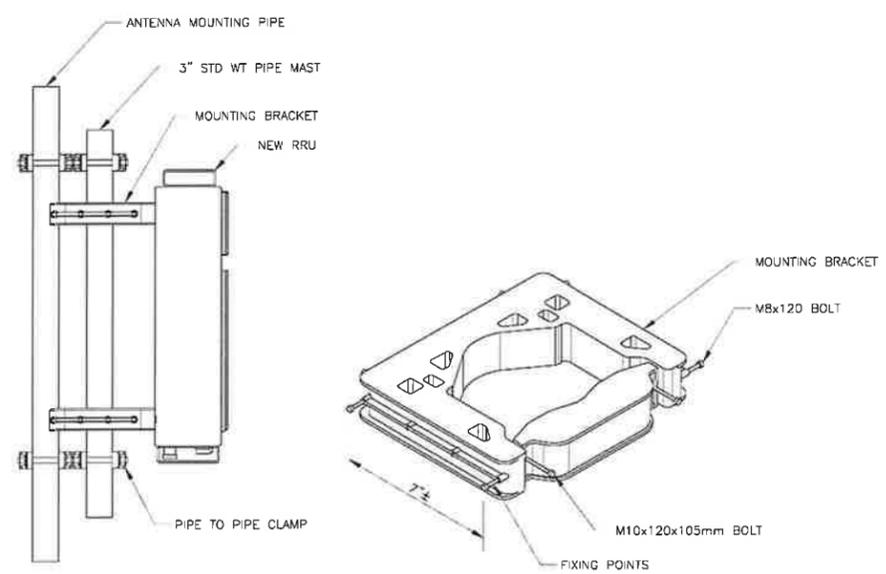
EXISTING 108'-0" MONOPOLE

1 NOT USED  
 SCALE: NOT TO SCALE

2 NOT USED  
 SCALE: NOT TO SCALE

ISSUED FOR:

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

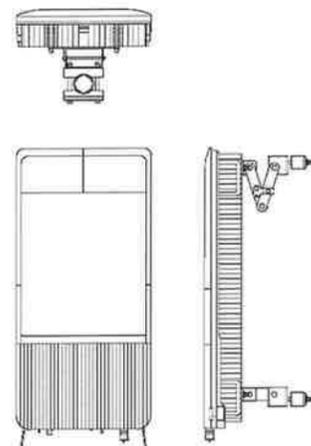
4 NOT USED  
 SCALE: NOT TO SCALE

STATE OF CONNECTICUT  
 AARON HERKENHOFF  
 36141  
 LICENSED PROFESSIONAL ENGINEER

07/19/2023

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SHEET NUMBER: **C-4** REVISION: **2**



SAMSUNG - MT6413-77A  
WEIGHT (WITHOUT MOUNTING HARDWARE): 57.3 LBS  
SIZE (HxWxD): 28.9x15.75x3.51 IN.

① SAMSUNG - MT6413-77A  
SCALE: NOT TO SCALE

② NOT USED  
SCALE: NOT TO SCALE

③ NOT USED  
SCALE: NOT TO SCALE

**verizon** ✓

20 ALEXANDER DRIVE, 2ND FLOOR  
WALLINGFORD, CT 06492

**CROWN CASTLE**

3 CORPORATE PARK DRIVE, SUITE 101  
CLIFTON PARK, NY 12065

**POD**

POWER OF DESIGN

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SHEET NUMBER: REVISION:

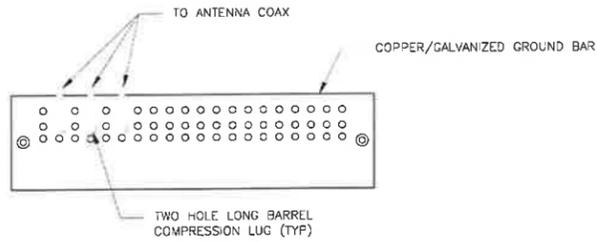
**C-5**

**2**

④ NOT USED  
SCALE: NOT TO SCALE

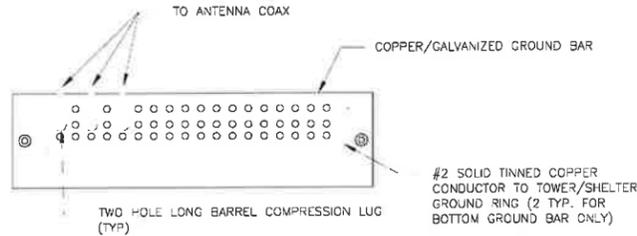
⑤ NOT USED  
SCALE: NOT TO SCALE

⑥ NOT USED  
SCALE: NOT TO SCALE



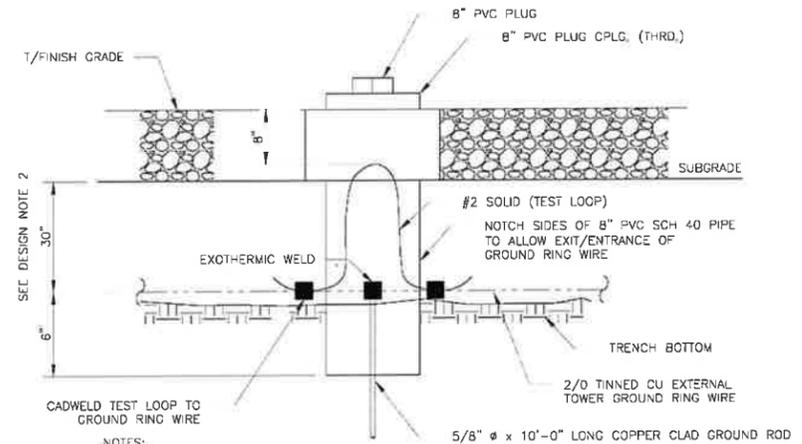
- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
  2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
  3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



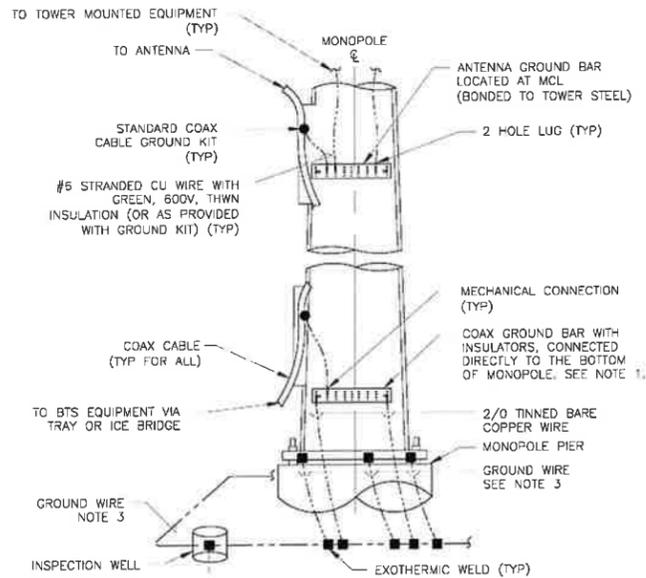
- NOTES:
1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
  2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
  3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



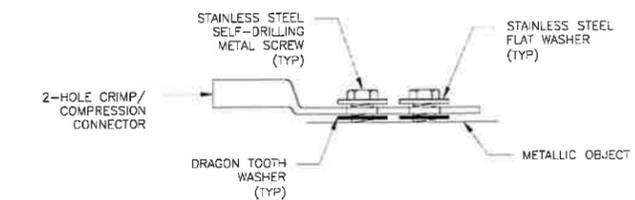
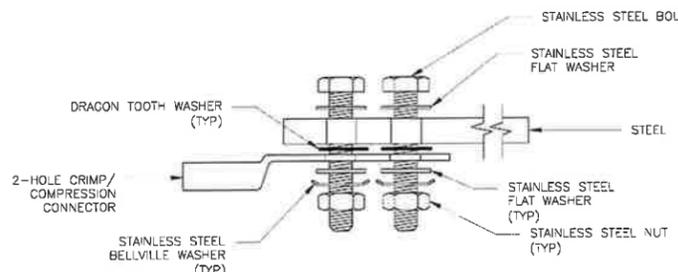
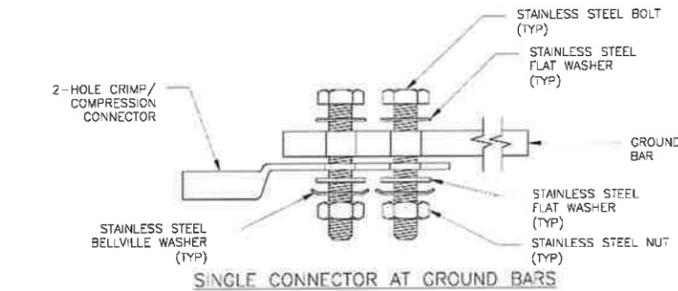
- NOTES:
1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
  2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE

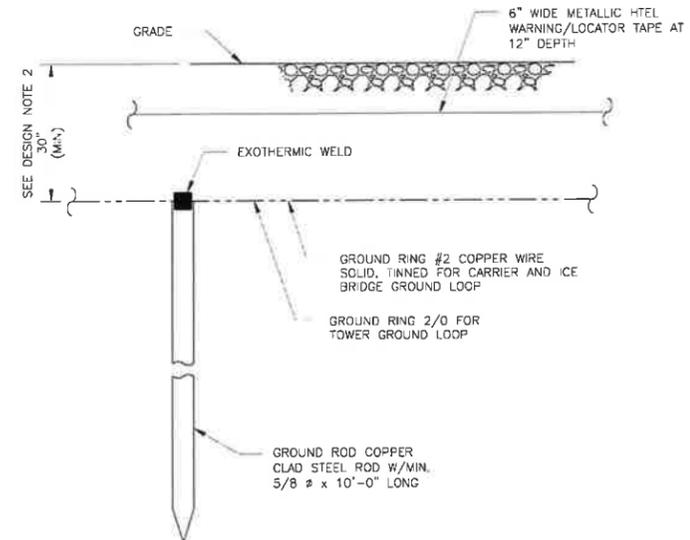


- NOTES:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT, PROVIDE AS REQUIRED.
  2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
  3. 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



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



- NOTES:
1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
  2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

**verizon**  
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**CROWN CASTLE**  
3 CORPORATE PARK DRIVE, SUITE 101  
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**POD**  
POWER OF DESIGN  
11490 BLUEGRASS PKWY  
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502-437-5252

VERIZON SITE NUMBER:  
5000393349

BU #: 876363  
HARTFORD - NU (SSUSA)

219 NEW PARK RD.  
HARTFORD, CT 06106

EXISTING 108'-0" MONOPOLE

ISSUED FOR:

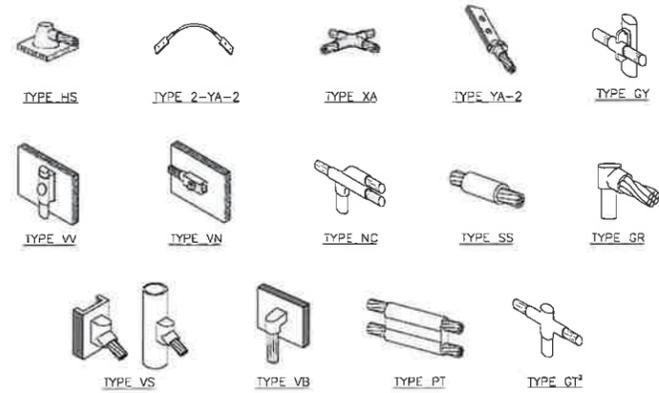
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07/19/2023

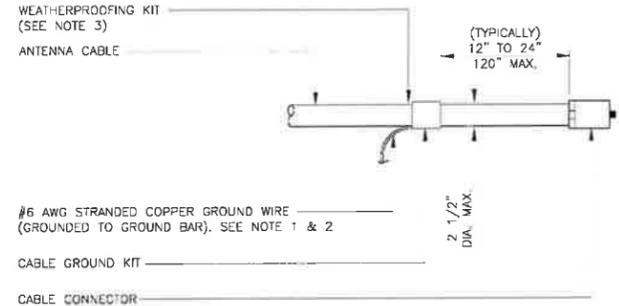
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SHEET NUMBER: **G-1** REVISION: **2**



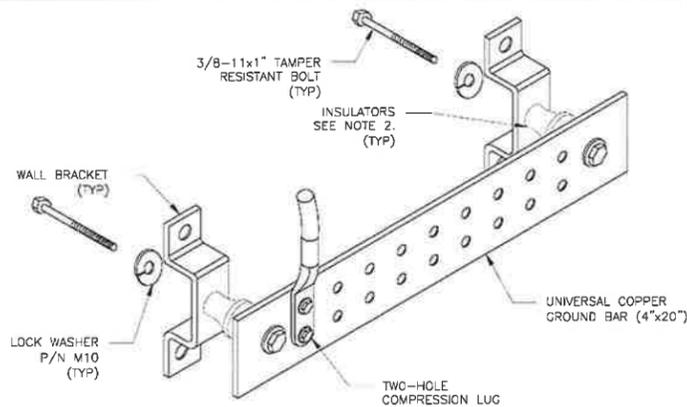
**NOTE:**  
 1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.  
 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

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



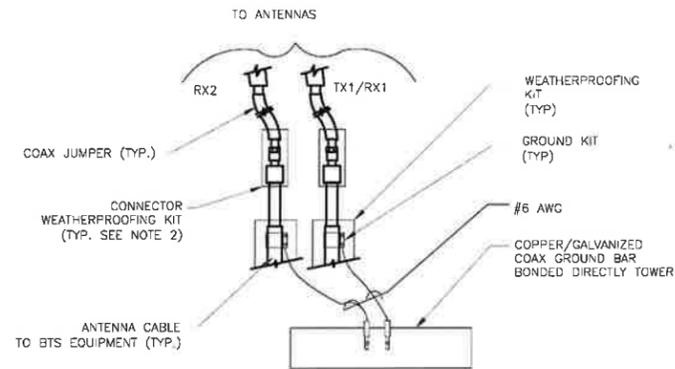
**NOTES:**  
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.  
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.  
 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

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



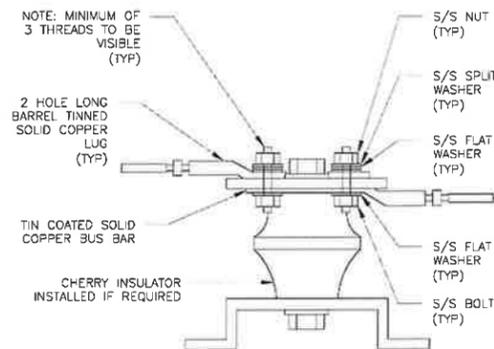
**NOTES:**  
 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.  
 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



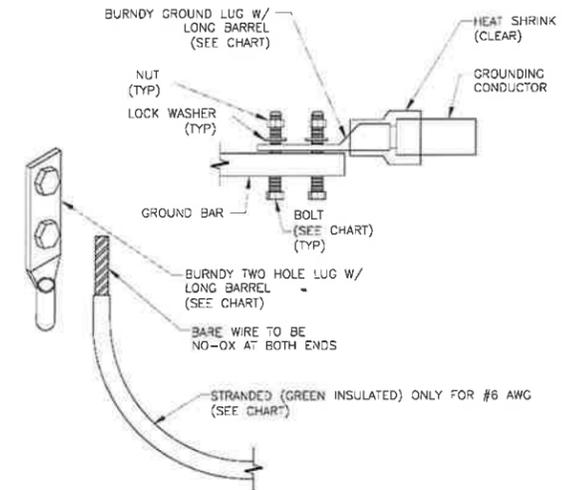
**NOTES:**  
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.  
 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

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



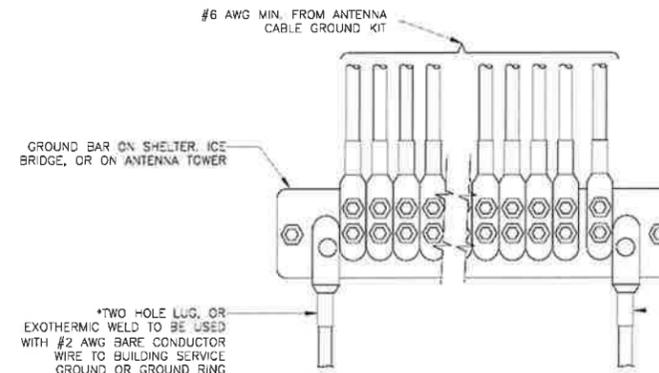
**7 LUG DETAIL**  
 SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC3B	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC3B	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC3B	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC3B	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



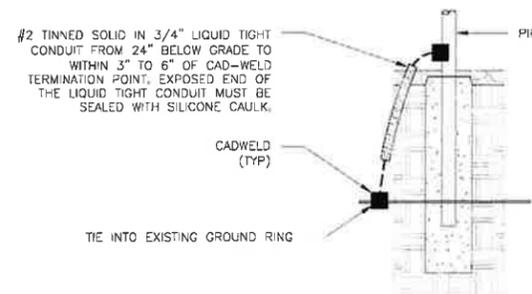
**NOTES:**  
 1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

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



GROUNDING SHALL BE ELIMINATED WHEN GROUND BAR IS ELECTRICALLY BONDED TO METAL TOWER

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



**8 TRANSITIONING GROUND DETAIL**  
 SCALE: NOT TO SCALE



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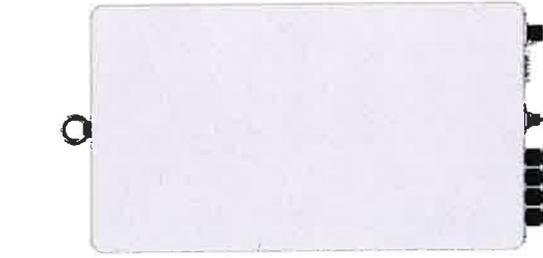
**G-2 2**

# C-band 64T64R

## Gen 2

SAMSUNG

Gen 2 : Higher conducted power radio with reduced size/volume/weight vs Gen 1 and also SOC embedded for flexibility to support new features



※ Preliminary Design: External appearance and mechanical design can be subject to change

Gen 2. 64T64R C-band MMU Dimensions	
Size (WxHxD)	400 x 734 x 140 mm (15.75 x 28.90 x 5.51 inch)
Weight	26kg (57.3 lb)

Item	Gen 2. 64T64R (MT6413-77A)
Air Technology	NR n77/TDD
Frequency	3700 – 3980 MHz
IBW	200 MHz
OBW	200 MHz
Carrier Bandwidth	20(HW ready)/40/60/80/100 MHz
# of Carriers	2 carriers
Layer	DL : 16L, UL : 16RX (8L)
RF Chain	64T64R
Antenna Configuration	4V16H with 192 AE
EIRP	80.5 dBm @320W (55 dBm + 25.5 dBi)
Conductive Power	320W
Spectrum Analyzer	TX/RX support
RX Sensitivity	Typical -97.8dBm @1Rx, 18.36MHz with 30kHz,51RBs)
Modulation	DL 256QAM support, (DL 1024QAM with 1~2dB power back-off)
Function Split	DU/UL option 7-2x
Input Power	-48 VDC (-38 VDC to -57 VDC)
Power Consumption	1,287W (100% load, room temp.)
Size (WHD)	400 x 734 x 140 mm (15.75 x 28.90 x 5.51 inch)
Volume	41.1L
Weight	26kg (57.3 lb)
Operating Temperature	-40°C - 55°C (w/o solar load)
Cooling	Natural convection 3GPP 38.104
Unwanted Emission	FCC 47 CFR 27.53 : < -13dBm/MHz < -40 dBm/MHz @ above 4 GHz < -50 dBm /MHz @ 4,040 ~ 4,050 MHz < -60 dBm /MHz @ above 4,050 MHz
Optic Interface	15km, 4 ports (25Gbps x 4), SFP28, single mode, Bi-di (Option: Duplex)
Mounting Options	Pole, wall
NB-IoT	Not support
External Alarm	4RX
Fronthaul Interface	eCPRI

# **ATTACHMENT 3**



C Squared Systems, LLC  
65 Dartmouth Drive  
Auburn, NH 03032  
(603) 644-2800  
[support@csquaredsystems.com](mailto:support@csquaredsystems.com)

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## Calculated Radio Frequency Emissions Report



West Hartford 4  
219 New Park Ave, Hartford, CT 06106

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July 21, 2023

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## 1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of Verizon's antenna arrays to be mounted at 105' AGL on an existing monopole located at 219 New Park Ave in Hartford, CT. The coordinates of the monopole tower are 41° 45' 2.808" N, 72° 42' 49.248" W.

Verizon is proposing the following:

- 1) Replace three (3) C-band antenna, one (1) per sector.
- 2) Retain six (6) multi-band antennas, two (2) per sector to support its commercial LTE network.

This report considers the planned antenna configuration for Verizon<sup>1</sup> and the existing antennas for T-Mobile<sup>2</sup> and unknown operator<sup>3</sup> to derive the resulting % MPE of its proposed installation.

## 2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm<sup>2</sup>). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment C contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

---

<sup>1</sup> As referenced to Verizon's Radio Frequency Design Sheet updated 04/10/2023.

<sup>2</sup> As referenced to EBI's Emission Analysis for Site: CTHA812A-876363, Dated 12/09/2021 and Crown Castle's Structural Analysis Report, Dated 06/21/2023

<sup>3</sup> As referenced to Crown Castle's Structural Analysis Report, Dated 06/21/2023

### 3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left( \frac{\text{GRF}^2 \times 1.64 \times \text{ERP}}{4\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance =  $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor (GRF) of 1.6

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final installations.

#### 4. Antenna Inventory

Table 1 below outlines Verizon’s proposed antenna configuration for the site. The associated data sheets and antenna patterns for these specific antenna models are included in Attachments C.

Operator	Sector / Call Sign	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
Verizon	Alpha / 350°	700	160	14.9	4944	SBNHH-1D65B	68	0	6.07	105
		850	160	14.7	4722		65.5			
		1900	160	18.2	10571		66.2			
		2100	240	18.6	17386		63			
		3700	200	26.5	89937	MT6413-77A	105	0	2.46	105
	Beta / 110°	700	160	14.9	4944	SBNHH-1D65B	68	0	6.07	105
		850	160	14.7	4722		65.5			
		1900	160	18.2	10571		66.2			
		2100	240	18.6	17386		63			
		3700	320	26.5	89937	MT6413-77A	105	0	2.46	105
	Gamma / 240°	700	160	14.9	4944	SBNHH-1D65B	68	0	6.07	105
		850	160	14.7	4722		65.5			
		1900	160	18.2	10571		66.2			
		2100	240	18.6	17386		63			
		3700	320	26.5	89937	MT6413-77A	105	0	2.46	105

**Table 1: Proposed Antenna Inventory<sup>45</sup>**

<sup>4</sup> Antenna heights are in reference to Verizon’s Radio Frequency Design Sheet updated 04/10/2023.

<sup>5</sup> Transmit power assumes 0 dB of cable loss.

## 5. Calculation Results

The calculated power density results are shown in Figure 1 below. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within  $\pm 5$  degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

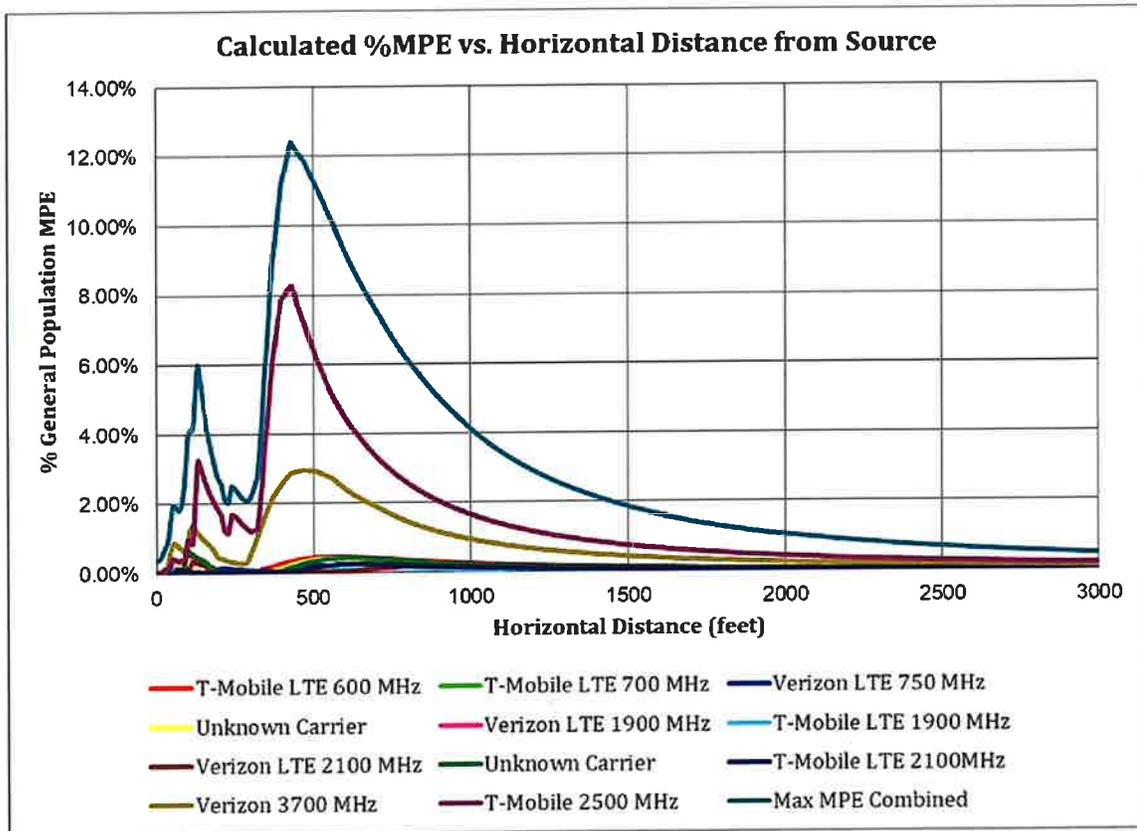


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (12.29% of the General Population limit) is calculated to occur at a horizontal distance of 433 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1500 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 433 feet from the site (reference Figure 1).

As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. In addition, a six foot height offset was considered in this analysis to account for average human height. As a result, the predicted signal levels are significantly higher than the actual signal levels will be from the final configuration. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the tower out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	% MPE
T-Mobile 2500 MHz	1	240.0	98.0	433	0.082626	1.000	8.26%
T-Mobile LTE 1900 MHz	1	120.0	98.0	433	0.000536	1.000	0.05%
T-Mobile LTE 2100MHz	1	120.0	98.0	433	0.000358	1.000	0.04%
T-Mobile LTE 600 MHz	1	140.0	98.0	433	0.001395	0.400	0.35%
T-Mobile LTE 700 MHz	1	60.0	98.0	433	0.000404	0.467	0.09%
Unknown Carrier	1	160.0	81.0	433	0.002400	1.000	0.24%
Unknown Carrier	1	160.0	81.0	433	0.001611	1.000	0.16%
Verizon 3700 MHz	1	200.0	105.0	433	0.028949	1.000	2.89%
Verizon LTE 1900 MHz	1	160.0	105.0	433	0.000185	1.000	0.02%
Verizon LTE 2100 MHz	1	240.0	105.0	433	0.000286	1.000	0.03%
Verizon LTE 750 MHz	1	160.0	105.0	433	0.000790	0.500	0.16%
						<b>Total</b>	<b>12.29%</b>

**Table 2: Maximum Percent of General Population Exposure Values<sup>6</sup>**

<sup>6</sup> Power and frequency information for the Unknown Carrier was made based on the specification of the antenna – <https://www.commscope.com/globalassets/digizuite/262537-p360-hbx-6516ds-vtm-external.pdf>



## Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2005, IEEE Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2002 (R2008), IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300 GHz IEEE-SA Standards Board

Verizon's Radio Frequency Design Sheet updated 10/21/2022

AT&T's filing, Connecticut Siting Council Notice of Exempt Modification – Antenna Add - 219 New Park Ave (aka 1 Service Road) Hartford, CT, dated 9/23/2022

As referenced to Dish Wireless LLC's filing, Connecticut Siting Council Tower Share Application – 219 New Park Ave , Hartford, CT, dated 11/19/2021

T-Mobile's filing, Connecticut Siting Council Notice of Exempt Modification – 219 New Park Ave , Hartford, CT, dated 10/1/2020

**Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)**

**(A) Limits for Occupational/Controlled Exposure<sup>7</sup>**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

**(B) Limits for General Population/Uncontrolled Exposure<sup>8</sup>**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz \* Plane-wave equivalent power density

**Table 3: FCC Limits for Maximum Permissible Exposure**

<sup>7</sup> Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

<sup>8</sup> General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

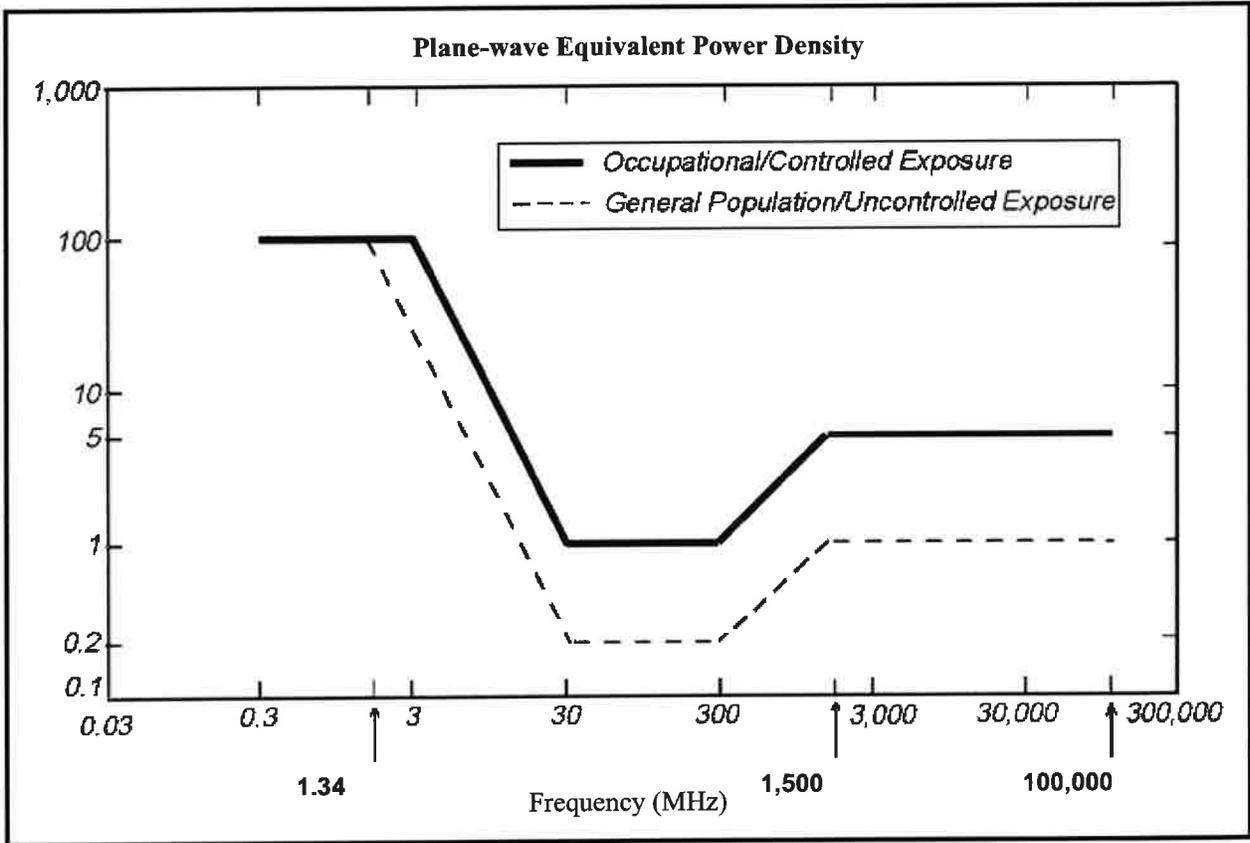
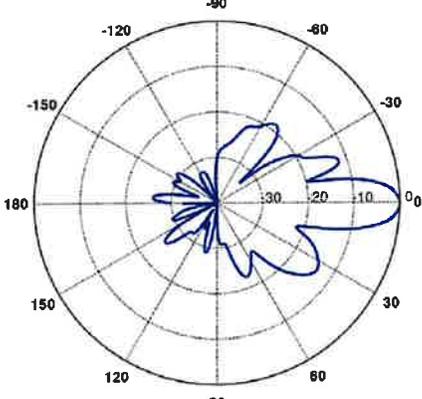
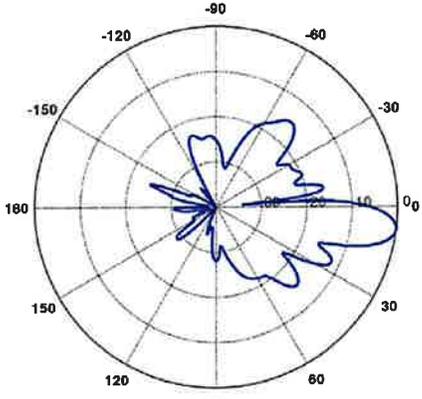
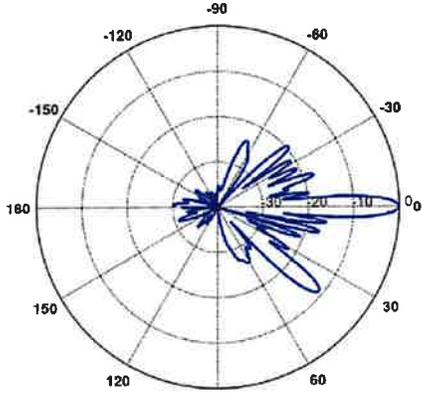


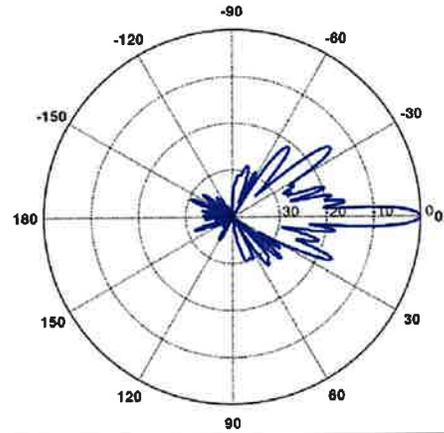
Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

**Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns**

<p><b>750 MHz</b></p> <p>Manufacturer: COMMSCOPE            Model #: SBNHH-1D65B            Frequency Band: 698-806 MHz            Gain: 14.9 dBi            Vertical Beamwidth: 12.1°            Horizontal Beamwidth: 68.0°            Polarization: ±45°            Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	 <p>A polar plot showing the radiation pattern for 750 MHz. The plot is circular with concentric dashed lines representing gain levels at 10, 20, and 30 dB. Radial lines indicate angles from 0 to 180 degrees in 30-degree increments. The main beam is centered at 0 degrees, extending to approximately 30 dB. There are several side lobes, with the largest ones between 90 and 180 degrees, reaching about 15 dB.</p>
<p><b>885 MHz</b></p> <p>Manufacturer: COMMSCOPE            Model #: SBNHH-1D65B            Frequency Band: 806-896 MHz            Gain: 14.7 dBi            Vertical Beamwidth: 10.7°            Horizontal Beamwidth: 65.5°            Polarization: ±45°            Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	 <p>A polar plot showing the radiation pattern for 885 MHz. The plot is circular with concentric dashed lines representing gain levels at 10, 20, and 30 dB. Radial lines indicate angles from 0 to 180 degrees in 30-degree increments. The main beam is centered at 0 degrees, extending to approximately 30 dB. There are several side lobes, with the largest ones between 90 and 180 degrees, reaching about 15 dB.</p>
<p><b>1900 MHz</b></p> <p>Manufacturer: COMMSCOPE            Model #: SBNHH-1D65B            Frequency Band: 1850-1990 MHz            Gain: 18.2 dBi            Vertical Beamwidth: 5.2°            Horizontal Beamwidth: 66.2°            Polarization: ±45°            Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	 <p>A polar plot showing the radiation pattern for 1900 MHz. The plot is circular with concentric dashed lines representing gain levels at 10, 20, and 30 dB. Radial lines indicate angles from 0 to 180 degrees in 30-degree increments. The main beam is centered at 0 degrees, extending to approximately 30 dB. There are several side lobes, with the largest ones between 90 and 180 degrees, reaching about 15 dB.</p>

**2100 MHz**

Manufacturer: COMMSCOPE  
Model #: SBNHH-1D65B  
Frequency Band: 1920-2200 MHz  
Gain: 18.6 dBi  
Vertical Beamwidth: 5°  
Horizontal Beamwidth: 63°  
Polarization: ±45°  
Dimensions (L x W x D): 72.87" x 7.08" x 11.85"



# **ATTACHMENT 4**

Date: June 21, 2023



Crown Castle  
2000 Corporate Drive  
Canonsburg, PA 15317  
(724) 416-2000

**Subject:** Structural Analysis Report

**Carrier Designation:** Verizon Wireless Co-Locate  
**Site Number:** 5000393349  
**Site Name:** West Hartford 4 CT

**Crown Castle Designation:** BU Number: 876363  
Site Name: HARTFORD - NU (SSUSA)  
JDE Job Number: 747618  
Work Order Number: 2239390  
Order Number: 651131 Rev. 2

**Engineering Firm Designation:** Crown Castle Project Number: 2239390

**Site Data:** 219 New Park Rd., HARTFORD, HARTFORD County, CT  
Latitude 41° 45' 2.79", Longitude -72° 42' 49.23"  
108 Foot - Monopole Tower

Crown Castle 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 – 76.6%**

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Jared Koski, EI

Respectfully submitted by:

Terry P. Styran, P.E.  
Senior Project Engineer



Terry P Styran  
2023.06.26  
09:52:27 -04'00'

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## 1) INTRODUCTION

This tower is a 108 ft Monopole tower designed by Summit. 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>	117 mph
<b>Exposure Category:</b>	C
<b>Topographic Factor:</b>	1
<b>Ice Thickness:</b>	1.5 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)
105.0	105.0	6	commscope	SBNHH-1D65B w/ Mount Pipe	7 1	1-1/4 1-5/8
		1	raycap	RVZDC-6627-PF-48		
		1	rfs celwave	DB-T1-6Z-8AB-0Z		
		1	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		2	samsung telecommunications	MT6413-77A w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
		1	tower mounts	Sector Mount [SM 502-3]		

**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)
99.0	100.0	3	ericsson	RADIO 4460 B2/B25 B66_TMO	3	1-5/8
		3	ericsson	RADIO 4480 B71_TMO		
	99.0	1	tower mounts	Platform Mount [LP 1201-1_HR-1]		
	98.0	3	commscope	VV-65A-R1_TMO w/ Mount Pipe		
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
81.0	81.0	1	tower mounts	T-Arm Mount [TA 602-3]	1	5/16
	80.0	3	andrew	HBX-6516DS-VTM w/ Mount Pipe	6	7/8

### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
4-GEOTECHNICAL REPORTS	2337384	CCISITES
4-POST-MODIFICATION INSPECTION	7243678	CCISITES
4-POST-MODIFICATION INSPECTION	4424435	CCISITES
4-POST-MODIFICATION INSPECTION	2445631	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1613616	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1947570	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	6859034	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3348853	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	2445633	CCISITES

#### 3.1) Analysis Method

tnxTower (version 8.1.4.0), 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 reinforcing elements. These calculations are presented in Appendix C.

#### 3.2) Assumptions

- 1) 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. Crown Castle 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	% Capacity	Pass / Fail
L1	108 - 103	Pole	TP8.625x8.625x0.3125	Pole	15.3%	Pass
L2	103 - 99.75	Pole	TP8.625x8.625x0.3125	Pole	36.7%	Pass
L3	99.75 - 98	Pole	TP16.5x8.625x1.0486	Pole	5.0%	Pass
L4	98 - 93	Pole	TP17.3x16.5x0.1875	Pole	28.4%	Pass
L5	93 - 88	Pole	TP18.101x17.3x0.1875	Pole	41.5%	Pass
L6	88 - 83	Pole	TP18.901x18.101x0.1875	Pole	53.6%	Pass
L7	83 - 82.873	Pole	TP18.921x18.901x0.1875	Pole	53.9%	Pass
L8	82.873 - 82.623	Pole + Reinf.	TP18.961x18.921x0.3625	Reinf. 14 Tension Rupture	43.8%	Pass
L9	82.623 - 77.623	Pole + Reinf.	TP19.762x18.961x0.3563	Reinf. 14 Tension Rupture	54.1%	Pass
L10	77.623 - 76.25	Pole + Reinf.	TP19.981x19.762x0.3563	Reinf. 14 Tension Rupture	56.9%	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L11	76.25 - 76	Pole + Reinf.	TP20.021x19.981x0.6	Reinf. 5 Tension Rupture	40.4%	Pass
L12	76 - 75.75	Pole + Reinf.	TP20.061x20.021x0.4563	Reinf. 5 Tension Rupture	46.9%	Pass
L13	75.75 - 74.333	Pole + Reinf.	TP20.288x20.061x0.45	Reinf. 5 Tension Rupture	49.3%	Pass
L14	74.333 - 74.083	Pole + Reinf.	TP20.328x20.288x0.5875	Reinf. 5 Tension Rupture	43.2%	Pass
L15	74.083 - 69.083	Pole + Reinf.	TP21.128x20.328x0.575	Reinf. 5 Tension Rupture	50.5%	Pass
L16	69.083 - 64.083	Pole + Reinf.	TP21.929x21.128x0.55	Reinf. 5 Tension Rupture	57.6%	Pass
L17	64.083 - 59.083	Pole + Reinf.	TP22.729x21.929x0.5375	Reinf. 5 Tension Rupture	64.3%	Pass
L18	59.083 - 58.083	Pole + Reinf.	TP22.889x22.729x0.5375	Reinf. 5 Tension Rupture	65.7%	Pass
L19	58.083 - 57.733	Pole + Reinf.	TP22.945x22.889x0.6	Reinf. 4 Bolt-Shaft Bearing	60.7%	Pass
L20	57.733 - 57.5	Pole + Reinf.	TP22.982x22.945x0.6	Reinf. 13 Tension Rupture	56.6%	Pass
L21	57.5 - 52.5	Pole + Reinf.	TP23.783x22.982x0.575	Reinf. 13 Tension Rupture	62.2%	Pass
L22	52.5 - 47	Pole + Reinf.	TP24.663x23.783x0.575	Reinf. 13 Tension Rupture	64.6%	Pass
L23	47 - 45.25	Pole + Reinf.	TP24.568x23.768x0.625	Reinf. 13 Tension Rupture	63.4%	Pass
L24	45.25 - 40.25	Pole + Reinf.	TP25.368x24.568x0.6125	Reinf. 13 Tension Rupture	67.9%	Pass
L25	40.25 - 38.083	Pole + Reinf.	TP25.715x25.368x0.6125	Reinf. 13 Tension Rupture	69.7%	Pass
L26	38.083 - 37.833	Pole + Reinf.	TP25.755x25.715x0.7125	Reinf. 4 Tension Rupture	63.5%	Pass
L27	37.833 - 32.833	Pole + Reinf.	TP26.555x25.755x0.7	Reinf. 4 Tension Rupture	67.5%	Pass
L28	32.833 - 27.733	Pole + Reinf.	TP27.372x26.555x0.725	Reinf. 1 Tension Rupture	63.1%	Pass
L29	27.733 - 27.5	Pole + Reinf.	TP27.409x27.372x0.725	Reinf. 1 Tension Rupture	63.3%	Pass
L30	27.5 - 22.5	Pole + Reinf.	TP28.209x27.409x0.7	Reinf. 1 Tension Rupture	66.7%	Pass
L31	22.5 - 19.5	Pole + Reinf.	TP28.689x28.209x0.6875	Reinf. 1 Tension Rupture	68.6%	Pass
L32	19.5 - 19.25	Pole + Reinf.	TP28.729x28.689x0.8	Reinf. 3 Tension Rupture	64.0%	Pass
L33	19.25 - 14.25	Pole + Reinf.	TP29.529x28.729x0.775	Reinf. 3 Tension Rupture	67.0%	Pass
L34	14.25 - 14	Pole + Reinf.	TP29.569x29.529x0.775	Reinf. 3 Tension Rupture	67.1%	Pass
L35	14 - 13.75	Pole + Reinf.	TP29.609x29.569x0.775	Reinf. 3 Tension Rupture	67.3%	Pass
L36	13.75 - 12.983	Pole + Reinf.	TP29.732x29.609x1.075	Reinf. 11 Tension Rupture	54.1%	Pass
L37	12.983 - 12.817	Pole + Reinf.	TP29.759x29.732x0.95	Reinf. 1 Tension Rupture	60.3%	Pass
L38	12.817 - 12.65	Pole + Reinf.	TP29.785x29.759x0.85	Reinf. 1 Tension Rupture	63.3%	Pass
L39	12.65 - 12.5	Pole + Reinf.	TP29.809x29.785x0.85	Reinf. 1 Tension Rupture	63.4%	Pass
L40	12.5 - 12.25	Pole + Reinf.	TP29.849x29.809x0.8	Reinf. 1 Tension Rupture	64.4%	Pass
L41	12.25 - 7.25	Pole + Reinf.	TP30.65x29.849x0.7875	Reinf. 1 Tension Rupture	67.1%	Pass
L42	7.25 - 2.25	Pole + Reinf.	TP31.45x30.65x0.775	Reinf. 1 Tension Rupture	69.7%	Pass
L43	2.25 - 0	Pole + Reinf.	TP31.81x31.45x0.7625	Reinf. 1 Tension Rupture	70.9%	Pass
					Summary	
				Pole	53.9%	Pass
				Reinforcement	70.9%	Pass
				Overall	70.9%	Pass

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

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Extension	98.5	15.8	Pass
1	Flange Connection	98	32.1	Pass
1	Anchor Rods	0	62.3	Pass
1	Base Plate	0	45.7	Pass
1	Base Foundation (Structure)	0	76.6	Pass
1	Base Foundation (Soil Interaction)	0	45.4	Pass

<b>Structure Rating (max from all components) =</b>	<b>76.6%</b>
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Notes:

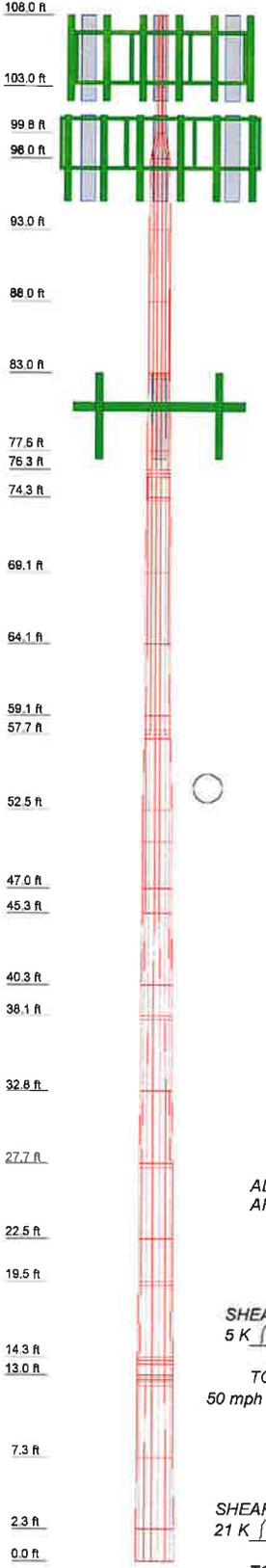
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

**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	0	0				A53-B-35	0.313
2	1,750.3250	18	0				A53-B-35	0.188
3	5.000	18	0				A53-B-35	0.188
4	5.000	18	0				A53-B-35	0.188
5	5.000	18	0				A53-B-35	0.188
6	5.000	18	0				A53-B-35	0.188
7	5.000	18	0				A53-B-35	0.188
8	5.000	18	0				A53-B-35	0.188
9	5.000	18	0				A53-B-35	0.188
10	5.000	18	0				A53-B-35	0.188
11	5.000	18	0				A53-B-35	0.188
12	5.000	18	0				A53-B-35	0.188
13	5.000	18	0				A53-B-35	0.188
14	5.000	18	0				A53-B-35	0.188
15	5.000	18	0				A53-B-35	0.188
16	5.000	18	0				A53-B-35	0.188
17	5.000	18	0				A53-B-35	0.188
18	5.000	18	0				A53-B-35	0.188
19	5.000	18	0				A53-B-35	0.188
20	5.000	18	0				A53-B-35	0.188
21	5.000	18	0				A53-B-35	0.188
22	5.000	18	0				A53-B-35	0.188
23	5.000	18	0				A53-B-35	0.188
24	5.000	18	0				A53-B-35	0.188
25	5.000	18	0				A53-B-35	0.188
26	5.000	18	0				A53-B-35	0.188
27	5.000	18	0				A53-B-35	0.188
28	5.000	18	0				A53-B-35	0.188
29	5.000	18	0				A53-B-35	0.188
30	5.000	18	0				A53-B-35	0.188
31	5.000	18	0				A53-B-35	0.188
32	5.000	18	0				A53-B-35	0.188
33	5.000	18	0				A53-B-35	0.188
34	5.000	18	0				A53-B-35	0.188
35	5.000	18	0				A53-B-35	0.188
36	5.000	18	0				A53-B-35	0.188
37	5.000	18	0				A53-B-35	0.188
38	5.000	18	0				A53-B-35	0.188
39	5.000	18	0				A53-B-35	0.188
40	5.000	18	0				A53-B-35	0.188
41	5.000	18	0				A53-B-35	0.188
42	5.000	18	0				A53-B-35	0.188
43	5.000	18	0				A53-B-35	0.188
44	5.000	18	0				A53-B-35	0.188
45	5.000	18	0				A53-B-35	0.188
46	5.000	18	0				A53-B-35	0.188
47	5.000	18	0				A53-B-35	0.188
48	5.000	18	0				A53-B-35	0.188
49	5.000	18	0				A53-B-35	0.188
50	5.000	18	0				A53-B-35	0.188
51	5.000	18	0				A53-B-35	0.188
52	5.000	18	0				A53-B-35	0.188
53	5.000	18	0				A53-B-35	0.188
54	5.000	18	0				A53-B-35	0.188
55	5.000	18	0				A53-B-35	0.188
56	5.000	18	0				A53-B-35	0.188
57	5.000	18	0				A53-B-35	0.188
58	5.000	18	0				A53-B-35	0.188
59	5.000	18	0				A53-B-35	0.188
60	5.000	18	0				A53-B-35	0.188
61	5.000	18	0				A53-B-35	0.188
62	5.000	18	0				A53-B-35	0.188
63	5.000	18	0				A53-B-35	0.188
64	5.000	18	0				A53-B-35	0.188
65	5.000	18	0				A53-B-35	0.188
66	5.000	18	0				A53-B-35	0.188
67	5.000	18	0				A53-B-35	0.188
68	5.000	18	0				A53-B-35	0.188
69	5.000	18	0				A53-B-35	0.188
70	5.000	18	0				A53-B-35	0.188
71	5.000	18	0				A53-B-35	0.188
72	5.000	18	0				A53-B-35	0.188
73	5.000	18	0				A53-B-35	0.188
74	5.000	18	0				A53-B-35	0.188
75	5.000	18	0				A53-B-35	0.188
76	5.000	18	0				A53-B-35	0.188
77	5.000	18	0				A53-B-35	0.188
78	5.000	18	0				A53-B-35	0.188
79	5.000	18	0				A53-B-35	0.188
80	5.000	18	0				A53-B-35	0.188
81	5.000	18	0				A53-B-35	0.188
82	5.000	18	0				A53-B-35	0.188
83	5.000	18	0				A53-B-35	0.188
84	5.000	18	0				A53-B-35	0.188
85	5.000	18	0				A53-B-35	0.188
86	5.000	18	0				A53-B-35	0.188
87	5.000	18	0				A53-B-35	0.188
88	5.000	18	0				A53-B-35	0.188
89	5.000	18	0				A53-B-35	0.188
90	5.000	18	0				A53-B-35	0.188
91	5.000	18	0				A53-B-35	0.188
92	5.000	18	0				A53-B-35	0.188
93	5.000	18	0				A53-B-35	0.188
94	5.000	18	0				A53-B-35	0.188
95	5.000	18	0				A53-B-35	0.188
96	5.000	18	0				A53-B-35	0.188
97	5.000	18	0				A53-B-35	0.188
98	5.000	18	0				A53-B-35	0.188
99	5.000	18	0				A53-B-35	0.188
100	5.000	18	0				A53-B-35	0.188
101	5.000	18	0				A53-B-35	0.188
102	5.000	18	0				A53-B-35	0.188
103	5.000	18	0				A53-B-35	0.188
104	5.000	18	0				A53-B-35	0.188
105	5.000	18	0				A53-B-35	0.188
106	5.000	18	0				A53-B-35	0.188
107	5.000	18	0				A53-B-35	0.188
108	5.000	18	0				A53-B-35	0.188



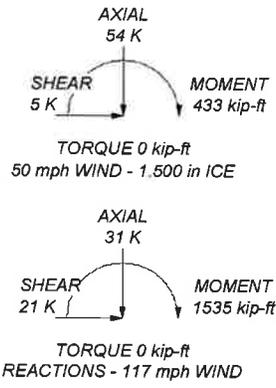
**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	60 ksi	A607-65	65 ksi	80 ksi
A36	36 ksi	58 ksi			

**TOWER DESIGN NOTES**

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 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. TOWER RATING: 70.9%

ALL REACTIONS ARE FACTORED



<p><b>CROWN CASTLE</b> The Pathway to Possible</p>	<p><b>Crown Castle</b> 2000 Corporate Drive Canonsburg, PA 15317 Phone: (724) 416-2000 FAX:</p>		<p>Job: <b>876363</b></p>
	<p>Project:</p>	<p>Client: <b>Crown Castle</b></p>	<p>Drawn by: <b>jkoski</b></p>
	<p>Code: <b>TIA-222-H</b></p>	<p>Date: <b>06/21/23</b></p>	<p>App'd:</p>
	<p>Path:</p>	<p>Scale: <b>NTS</b></p>	<p>Dwg No. <b>E-1</b></p>
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## 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 Hartford County, Connecticut.
- Tower base elevation above sea level: 68.000 ft.
- Basic wind speed of 117 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.500 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.
- TOWER RATING: 70.9%.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t) = 0.85$ .
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

Consider Moments - Legs Consider Moments - Horizontals  Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned  ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension ✓ Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules Calculate Forces in Supporting Bracing Members Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <b>Poles</b> ✓ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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## Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	
L1	108.000-	5.000	0.000	Round	8.625	8.625	0.313		A53-B-35

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L2	103.000 103.000- 99.750	3.250	0.000	Round	8.625	8.625	0.313		(35 ksi) A53-B-35
L3	99.750-98.000	1.750	0.000	18	8.625	16.500	1.049	4.194	(35 ksi) A36
L4	98.000-93.000	5.000	0.000	18	16.500	17.300	0.188	0.750	(36 ksi) A607-65
L5	93.000-88.000	5.000	0.000	18	17.300	18.101	0.188	0.750	(65 ksi) A607-65
L6	88.000-83.000	5.000	0.000	18	18.101	18.901	0.188	0.750	(65 ksi) A607-65
L7	83.000-82.873	0.127	0.000	18	18.901	18.921	0.188	0.750	(65 ksi) A607-65
L8	82.873-82.623	0.250	0.000	18	18.921	18.961	0.362	1.450	(65 ksi) A607-65
L9	82.623-77.623	5.000	0.000	18	18.961	19.762	0.356	1.425	(65 ksi) A607-65
L10	77.623-76.250	1.373	0.000	18	19.762	19.981	0.356	1.425	(65 ksi) A607-65
L11	76.250-76.000	0.250	0.000	18	19.981	20.021	0.600	2.400	(65 ksi) A607-65
L12	76.000-75.750	0.250	0.000	18	20.021	20.061	0.456	1.825	(65 ksi) A607-65
L13	75.750-74.333	1.417	0.000	18	20.061	20.288	0.450	1.800	(65 ksi) A607-65
L14	74.333-74.083	0.250	0.000	18	20.288	20.328	0.588	2.350	(65 ksi) A607-65
L15	74.083-69.083	5.000	0.000	18	20.328	21.128	0.575	2.300	(65 ksi) A607-65
L16	69.083-64.083	5.000	0.000	18	21.128	21.929	0.550	2.200	(65 ksi) A607-65
L17	64.083-59.083	5.000	0.000	18	21.929	22.729	0.537	2.150	(65 ksi) A607-65
L18	59.083-58.083	1.000	0.000	18	22.729	22.889	0.537	2.150	(65 ksi) A607-65
L19	58.083-57.733	0.350	0.000	18	22.889	22.945	0.600	2.400	(65 ksi) A607-65
L20	57.733-57.500	0.233	0.000	18	22.945	22.982	0.600	2.400	(65 ksi) A607-65
L21	57.500-52.500	5.000	0.000	18	22.982	23.783	0.575	2.300	(65 ksi) A607-65
L22	52.500-47.000	5.500	3.250	18	23.783	24.663	0.575	2.300	(65 ksi) A607-65
L23	47.000-45.250	5.000	0.000	18	23.768	24.568	0.625	2.500	(65 ksi) A607-65
L24	45.250-40.250	5.000	0.000	18	24.568	25.368	0.613	2.450	(65 ksi) A607-65
L25	40.250-38.083	2.167	0.000	18	25.368	25.715	0.613	2.450	(65 ksi) A607-65
L26	38.083-37.833	0.250	0.000	18	25.715	25.755	0.713	2.850	(65 ksi) A607-65
L27	37.833-32.833	5.000	0.000	18	25.755	26.555	0.700	2.800	(65 ksi) A607-65
L28	32.833-27.733	5.100	0.000	18	26.555	27.372	0.725	2.900	(65 ksi) A607-65
L29	27.733-27.500	0.233	0.000	18	27.372	27.409	0.725	2.900	(65 ksi) A607-65
L30	27.500-22.500	5.000	0.000	18	27.409	28.209	0.700	2.800	(65 ksi) A607-65
L31	22.500-19.500	3.000	0.000	18	28.209	28.689	0.688	2.750	(65 ksi) A607-65
L32	19.500-19.250	0.250	0.000	18	28.689	28.729	0.800	3.200	(65 ksi) A607-65
L33	19.250-14.250	5.000	0.000	18	28.729	29.529	0.775	3.100	(65 ksi) A607-65
L34	14.250-14.000	0.250	0.000	18	29.529	29.569	0.775	3.100	(65 ksi) A607-65
L35	14.000-13.750	0.250	0.000	18	29.569	29.609	0.775	3.100	(65 ksi) A607-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L36	13.750-12.983	0.767	0.000	18	29.609	29.732	1.075	4.300	A607-65 (65 ksi)
L37	12.983-12.817	0.166	0.000	18	29.732	29.759	0.950	3.800	A607-65 (65 ksi)
L38	12.817-12.650	0.167	0.000	18	29.759	29.785	0.850	3.400	A607-65 (65 ksi)
L39	12.650-12.500	0.150	0.000	18	29.785	29.809	0.850	3.400	A607-65 (65 ksi)
L40	12.500-12.250	0.250	0.000	18	29.809	29.849	0.800	3.200	A607-65 (65 ksi)
L41	12.250-7.250	5.000	0.000	18	29.849	30.650	0.787	3.150	A607-65 (65 ksi)
L42	7.250-2.250	5.000	0.000	18	30.650	31.450	0.775	3.100	A607-65 (65 ksi)
L43	2.250-0.000	2.250		18	31.450	31.810	0.762	3.050	A607-65 (65 ksi)

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	I/Q in <sup>2</sup>	w in	w/t
L1	8.625	8.161	70.586	2.941	4.313	16.368	141.172	4.078	0.000	0
	8.625	8.161	70.586	2.941	4.313	16.368	141.172	4.078	0.000	0
L2	8.625	8.161	70.586	2.941	4.313	16.368	141.172	4.078	0.000	0
	8.625	8.161	70.586	2.941	4.313	16.368	141.172	4.078	0.000	0
L3	8.596	25.216	182.870	2.690	4.382	41.737	365.981	12.610	0.328	0.312
	16.593	51.426	1551.164	5.485	8.382	185.059	3104.369	25.718	1.058	1.009
L4	16.726	9.708	326.368	5.791	8.382	38.937	653.165	4.855	2.574	13.728
	17.538	10.184	376.798	6.075	8.789	42.874	754.091	5.093	2.715	14.479
L5	17.538	10.184	376.798	6.075	8.789	42.874	754.091	5.093	2.715	14.479
	18.351	10.661	432.172	6.359	9.195	47.000	864.913	5.331	2.856	15.23
L6	18.351	10.661	432.172	6.359	9.195	47.000	864.913	5.331	2.856	15.23
	19.164	11.137	492.723	6.643	9.602	51.316	986.094	5.569	2.997	15.982
L7	19.164	11.137	492.723	6.643	9.602	51.316	986.094	5.569	2.997	15.982
	19.184	11.149	494.330	6.650	9.612	51.429	989.311	5.576	3.000	16.001
L8	19.157	21.353	929.171	6.588	9.612	96.668	1859.565	10.679	2.692	7.427
	19.198	21.399	935.194	6.603	9.632	97.089	1871.619	10.702	2.699	7.446
L9	19.199	21.037	919.997	6.605	9.632	95.512	1841.205	10.521	2.710	7.608
	20.011	21.942	1043.898	6.889	10.039	103.986	2089.170	10.973	2.851	8.003
L10	20.011	21.942	1043.898	6.889	10.039	103.986	2089.170	10.973	2.851	8.003
	20.235	22.191	1079.767	6.967	10.150	106.376	2160.955	11.097	2.890	8.111
L11	20.197	36.910	1751.632	6.880	10.150	172.566	3505.569	18.458	2.461	4.101
	20.238	36.986	1762.504	6.895	10.171	173.290	3527.327	18.496	2.468	4.113
L12	20.260	28.333	1370.218	6.946	10.171	134.721	2742.239	14.169	2.721	5.963
	20.300	28.391	1378.643	6.960	10.191	135.278	2759.099	14.198	2.728	5.979
L13	20.301	28.011	1361.058	6.962	10.191	133.553	2723.907	14.008	2.739	6.086
	20.532	28.335	1408.828	7.043	10.306	136.695	2819.509	14.170	2.779	6.175
L14	20.510	36.736	1801.322	6.994	10.306	174.778	3605.015	18.372	2.537	4.318
	20.551	36.811	1812.321	7.008	10.327	175.499	3627.026	18.409	2.544	4.33
L15	20.553	36.050	1777.132	7.012	10.327	172.091	3556.603	18.029	2.566	4.462
	21.366	37.511	2002.002	7.296	10.733	186.524	4006.639	18.759	2.707	4.707
L16	21.370	35.924	1921.955	7.305	10.733	179.066	3846.439	17.965	2.751	5.001
	22.182	37.321	2155.023	7.589	11.140	193.453	4312.881	18.664	2.891	5.257
L17	22.184	36.494	2109.741	7.594	11.140	189.388	4222.259	18.250	2.913	5.42
	22.997	37.859	2355.501	7.878	11.546	204.004	4714.102	18.933	3.054	5.682
L18	22.997	37.859	2355.501	7.878	11.546	204.004	4714.102	18.933	3.054	5.682
	23.159	38.132	2406.838	7.935	11.628	206.993	4816.843	19.070	3.082	5.735
L19	23.150	42.447	2664.228	7.913	11.628	229.129	5331.961	21.228	2.972	4.954
	23.206	42.554	2684.367	7.933	11.656	230.297	5372.266	21.281	2.982	4.971
L20	23.206	42.554	2684.367	7.933	11.656	230.297	5372.266	21.281	2.982	4.971
	23.244	42.625	2697.830	7.946	11.675	231.077	5399.209	21.317	2.989	4.981
L21	23.248	40.895	2594.093	7.955	11.675	222.191	5191.600	20.451	3.033	5.275
	24.061	42.355	2882.088	8.239	12.082	238.552	5767.968	21.182	3.174	5.52
L22	24.061	42.355	2882.088	8.239	12.082	238.552	5767.968	21.182	3.174	5.52
	24.955	43.962	3222.660	8.551	12.529	257.220	6449.560	21.985	3.329	5.789
L23	24.566	45.910	3106.509	8.216	12.074	257.288	6217.105	22.959	3.083	4.933

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L24	24.851	47.497	3440.025	8.500	12.481	275.631	6884.576	23.753	3.224	5.158
	24.853	46.571	3376.507	8.504	12.481	270.541	6757.457	23.290	3.246	5.3
	25.665	48.127	3726.306	8.788	12.887	289.151	7457.514	24.068	3.387	5.529
L25	25.665	48.127	3726.306	8.788	12.887	289.151	7457.514	24.068	3.387	5.529
	26.017	48.801	3885.120	8.911	13.063	297.408	7775.352	24.405	3.448	5.629
L26	26.002	56.543	4465.629	8.876	13.063	341.847	8937.134	28.277	3.272	4.592
	26.042	56.633	4487.102	8.890	13.084	342.957	8980.108	28.322	3.279	4.602
L27	26.044	55.667	4414.985	8.895	13.084	337.445	8835.780	27.839	3.301	4.716
	26.857	57.445	4851.662	9.179	13.490	359.646	9709.708	28.728	3.442	4.917
L28	26.853	59.439	5010.374	9.170	13.490	371.412	10027.340	29.725	3.398	4.687
	27.682	61.318	5500.516	9.460	13.905	395.586	11008.270	30.665	3.541	4.885
L29	27.682	61.318	5500.516	9.460	13.905	395.586	11008.270	30.665	3.541	4.885
	27.720	61.403	5523.641	9.473	13.924	396.709	11054.551	30.708	3.548	4.894
L30	27.724	59.342	5348.175	9.482	13.924	384.107	10703.387	29.676	3.592	5.131
	28.536	61.120	5843.428	9.766	14.330	407.771	11694.546	30.566	3.733	5.333
L31	28.538	60.055	5746.908	9.770	14.330	401.035	11501.379	30.033	3.755	5.462
	29.026	61.103	6052.962	9.941	14.574	415.324	12113.889	30.557	3.839	5.584
L32	29.008	70.816	6958.894	9.901	14.574	477.484	13926.944	35.415	3.641	4.552
	29.049	70.918	6988.887	9.915	14.594	478.874	13986.970	35.466	3.648	4.56
L33	29.053	68.763	6788.682	9.924	14.594	465.156	13586.297	34.388	3.692	4.764
	29.865	70.731	7388.530	10.208	15.001	492.538	14786.782	35.372	3.833	4.946
L34	29.865	70.731	7388.530	10.208	15.001	492.538	14786.782	35.372	3.833	4.946
	29.906	70.830	7419.416	10.222	15.021	493.928	14848.595	35.422	3.840	4.955
L35	29.906	70.830	7419.416	10.222	15.021	493.928	14848.595	35.422	3.840	4.955
	29.947	70.928	7450.387	10.236	15.042	495.320	14910.577	35.471	3.847	4.964
L36	29.900	97.361	10015.187	10.130	15.042	665.834	20043.553	48.690	3.319	3.088
	30.025	97.780	10144.999	10.173	15.104	671.679	20303.347	48.899	3.341	3.108
L37	30.044	86.787	9083.179	10.218	15.104	601.378	18178.309	43.402	3.561	3.748
	30.071	86.867	9108.354	10.227	15.117	602.507	18228.693	43.442	3.566	3.753
L38	30.087	77.993	8234.741	10.263	15.117	544.718	16480.317	39.004	3.742	4.402
	30.114	78.065	8257.602	10.272	15.131	545.740	16526.069	39.040	3.746	4.407
L39	30.114	78.065	8257.602	10.272	15.131	545.740	16526.069	39.040	3.746	4.407
	30.138	78.130	8278.172	10.281	15.143	546.659	16567.237	39.072	3.750	4.412
L40	30.146	73.661	7831.646	10.298	15.143	517.172	15673.598	36.837	3.838	4.798
	30.187	73.762	7864.096	10.313	15.164	518.619	15738.540	36.888	3.846	4.807
L41	30.188	72.641	7751.217	10.317	15.164	511.175	15512.634	36.327	3.868	4.911
	31.001	74.641	8409.296	10.601	15.570	540.095	16829.657	37.328	4.008	5.09
L42	31.003	73.487	8286.212	10.606	15.570	532.190	16583.327	36.751	4.030	5.2
	31.816	75.456	8970.066	10.890	15.977	561.452	17951.935	37.735	4.171	5.382
L43	31.817	74.269	8836.181	10.894	15.977	553.072	17683.988	37.141	4.193	5.499
	32.183	75.140	9150.907	11.022	16.159	566.287	18313.854	37.577	4.257	5.582

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
L1 108.000-103.000				1	1	1			
L2 103.000-99.750				1	1	1			
L3 99.750-98.000				1	1	1			
L4 98.000-93.000				1	1	1			
L5 93.000-88.000				1	1	1			
L6 88.000-83.000				1	1	1			
L7 83.000-82.873				1	1	1			
L8 82.873-82.623				1	1	0.931484			
L9 82.623-77.623				1	1	0.930137			
L10 77.623-76.250				1	1	0.925615			
L11 76.250-76.000				1	1	0.961567			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
L12 76.000-75.750				1	1	1.15066			
L13 75.750-74.333				1	1	1.1577			
L14 74.333-74.083				1	1	0.971101			
L15 74.083-69.083				1	1	0.965671			
L16 69.083-64.083				1	1	0.983354			
L17 64.083-59.083				1	1	0.981949			
L18 59.083-58.083				1	1	0.977415			
L19 58.083-57.733				1	1	1.038			
L20 57.733-57.500				1	1	1.03679			
L21 57.500-52.500				1	1	1.05464			
L22 52.500-47.000				1	1	1.04351			
L23 47.000-45.250				1	1	1.05109			
L24 45.250-40.250				1	1	1.05053			
L25 40.250-38.083				1	1	1.04165			
L26 38.083-37.833				1	1	0.946367			
L27 37.833-32.833				1	1	0.944041			
L28 32.833-27.733				1	1	0.9485			
L29 27.733-27.500				1	1	0.947656			
L30 27.500-22.500				1	1	0.962447			
L31 22.500-19.500				1	1	0.968941			
L32 19.500-19.250				1	1	0.898748			
L33 19.250-14.250				1	1	0.910092			
L34 14.250-14.000				1	1	0.909276			
L35 14.000-13.750				1	1	0.908462			
L36 13.750-12.983				1	1	0.898029			
L37 12.983-12.817				1	1	0.946042			
L38 12.817-12.650				1	1	0.968915			
L39 12.650-12.500				1	1	0.968355			
L40 12.500-12.250				1	1	0.965111			
L41 12.250-7.250				1	1	0.962254			
L42 7.250-2.250				1	1	0.960284			
L43 2.250-0.000				1	1	0.968116			

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

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 plf
* 5.25" x 1.25" Plate	A	No	Surface Af (CaAa)	29.750 - 0.000	1	1	0.100 0.150	5.250	13.000	0.000
5.25" x 1.25" Plate	C	No	Surface Af (CaAa)	15.500 - 0.000	2	2	0.200 0.300	5.250	13.000	0.000
5.25" x 1.25" Plate	C	No	Surface Af (CaAa)	29.750 - 10.250	1	1	0.100 0.150	5.250	13.000	0.000
5.25" x 1.25" Plate	B	No	Surface Af (CaAa)	29.750 - 0.000	1	1	0.050 0.100	5.250	13.000	0.000
* 4.375" x 1.25" Plate	A	No	Surface Af (CaAa)	59.500 - 29.750	1	1	0.100 0.150	4.375	11.250	0.000
4.375" x 1.25" Plate	B	No	Surface Af (CaAa)	78.000 - 29.750	1	1	0.050 0.100	4.375	11.250	0.000
4.375" x 1.25" Plate	C	No	Surface Af (CaAa)	59.500 - 29.750	1	1	0.100 0.150	4.375	11.250	0.000
* 4.0" x 1.25" Plate	A	No	Surface Af (CaAa)	78.000 - 59.500	1	1	0.100 0.150	4.000	10.500	0.000
4.0" x 1.25" Plate	B	No	Surface Af (CaAa)	78.000 - 59.500	1	1	0.050 0.100	4.000	10.500	0.000
4.0" x 1.25" Plate	C	No	Surface Af (CaAa)	78.000 - 59.500	1	1	0.100 0.150	4.000	10.500	0.000
* MP3-05	B	No	Surface Af (CaAa)	40.500 - 0.000	1	1	0.400 0.450	5.330	14.840	0.000
MP3-05	A	No	Surface Af (CaAa)	15.500 - 0.000	1	1	0.200 0.200	5.330	14.840	0.000
MP3-05	A	No	Surface Af (CaAa)	40.500 - 10.500	1	1	0.400 0.450	5.330	14.840	0.000
MP3-05	C	No	Surface Af (CaAa)	40.500 - 0.000	1	1	0.400 0.450	5.330	14.840	0.000
* MP3-05	A	No	Surface Af (CaAa)	60.500 - 40.500	1	1	0.400 0.450	5.330	14.840	0.000
MP3-05	B	No	Surface Af (CaAa)	60.500 - 40.500	1	1	0.400 0.450	5.330	14.840	0.000
MP3-05	C	No	Surface Af (CaAa)	60.500 - 40.500	1	1	0.400 0.450	5.330	14.840	0.000
* MP3-03	A	No	Surface Af (CaAa)	84.050 - 60.500	1	1	0.400 0.450	4.060	11.260	0.000
MP3-03	B	No	Surface Af (CaAa)	84.050 - 60.500	1	1	0.400 0.450	4.060	11.260	0.000
MP3-03	C	No	Surface Af (CaAa)	84.050 - 60.500	1	1	0.400 0.450	4.060	11.260	0.000
* CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	15.500 - 0.000	1	1	0.350 0.400	4.500	11.000	0.000
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	21.000 - 11.000	1	1	0.000 0.050	4.500	11.000	0.000
* LDF6-50A(1-1/4)	B	No	Surface Ar (CaAa)	105.000 - 0.000	4	2	-0.500 -0.430	1.550		0.600
HB158-1-08U8-S8J18(1-5/8)	C	No	Surface Ar (CaAa)	105.000 - 13.000	2	2	0.380 0.470	1.980		1.300
* ATCB-B01(5/16)	C	No	Surface Ar (CaAa)	81.000 - 0.000	1	1	0.454 0.462	0.315		0.075
FXL 780 PE(7/8)	C	No	Surface Ar (CaAa)	81.000 - 0.000	6	3	0.365 0.490	1.090		0.250

**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>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight plf
LDF6-50A(1-1/4)	C	No	No	Inside Pole	105.000 - 0.000	1	No Ice	0.000	0.600
							1/2" Ice	0.000	0.600
							1" Ice	0.000	0.600
							2" Ice	0.000	0.600
HB114-U6S12-XXX-LI(1-1/4)	C	No	No	Inside Pole	105.000 - 0.000	1	No Ice	0.000	1.700
							1/2" Ice	0.000	1.700
							1" Ice	0.000	1.700
HB158-21U6S24-xxM_TMO(1-5/8)	B	No	No	Inside Pole	99.000 - 0.000	3	No Ice	0.000	2.500
							1/2" Ice	0.000	2.500
							1" Ice	0.000	2.500
							2" Ice	0.000	2.500

**Feed Line/Linear Appurtenances Section Areas**

Tower Section n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	108.000-103.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.620	0.000	0.005
		C	0.000	0.000	0.792	0.000	0.010
L2	103.000-99.750	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	1.008	0.000	0.008
		C	0.000	0.000	1.287	0.000	0.016
L3	99.750-98.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.542	0.000	0.012
		C	0.000	0.000	0.693	0.000	0.009
L4	98.000-93.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	1.550	0.000	0.049
		C	0.000	0.000	1.980	0.000	0.025
L5	93.000-88.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	1.550	0.000	0.049
		C	0.000	0.000	1.980	0.000	0.025
L6	88.000-83.000	A	0.000	0.000	0.711	0.000	0.000
		B	0.000	0.000	2.261	0.000	0.049
		C	0.000	0.000	2.691	0.000	0.025
L7	83.000-82.873	A	0.000	0.000	0.086	0.000	0.000
		B	0.000	0.000	0.125	0.000	0.001
		C	0.000	0.000	0.136	0.000	0.001
L8	82.873-82.623	A	0.000	0.000	0.169	0.000	0.000
		B	0.000	0.000	0.247	0.000	0.002
		C	0.000	0.000	0.268	0.000	0.001
L9	82.623-77.623	A	0.000	0.000	3.635	0.000	0.000
		B	0.000	0.000	5.185	0.000	0.049
		C	0.000	0.000	6.825	0.000	0.030
L10	77.623-76.250	A	0.000	0.000	1.844	0.000	0.000
		B	0.000	0.000	2.270	0.000	0.014
		C	0.000	0.000	2.880	0.000	0.009
L11	76.250-76.000	A	0.000	0.000	0.336	0.000	0.000
		B	0.000	0.000	0.413	0.000	0.002
		C	0.000	0.000	0.524	0.000	0.002
L12	76.000-75.750	A	0.000	0.000	0.336	0.000	0.000
		B	0.000	0.000	0.413	0.000	0.002
		C	0.000	0.000	0.524	0.000	0.002
L13	75.750-74.333	A	0.000	0.000	1.904	0.000	0.000
		B	0.000	0.000	2.343	0.000	0.014
		C	0.000	0.000	2.973	0.000	0.009
L14	74.333-74.083	A	0.000	0.000	0.336	0.000	0.000
		B	0.000	0.000	0.413	0.000	0.002
		C	0.000	0.000	0.524	0.000	0.002

Tower Sectio n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L15	74.083-69.083	A	0.000	0.000	6.717	0.000	0.000
		B	0.000	0.000	8.267	0.000	0.049
		C	0.000	0.000	10.489	0.000	0.032
L16	69.083-64.083	A	0.000	0.000	6.717	0.000	0.000
		B	0.000	0.000	8.267	0.000	0.049
		C	0.000	0.000	10.489	0.000	0.032
L17	64.083-59.083	A	0.000	0.000	7.043	0.000	0.000
		B	0.000	0.000	8.593	0.000	0.049
		C	0.000	0.000	10.815	0.000	0.032
L18	59.083-58.083	A	0.000	0.000	1.617	0.000	0.000
		B	0.000	0.000	1.928	0.000	0.010
		C	0.000	0.000	2.372	0.000	0.006
L19	58.083-57.733	A	0.000	0.000	0.566	0.000	0.000
		B	0.000	0.000	0.675	0.000	0.003
		C	0.000	0.000	0.830	0.000	0.002
L20	57.733-57.500	A	0.000	0.000	0.377	0.000	0.000
		B	0.000	0.000	0.449	0.000	0.002
		C	0.000	0.000	0.553	0.000	0.002
L21	57.500-52.500	A	0.000	0.000	8.088	0.000	0.000
		B	0.000	0.000	9.637	0.000	0.049
		C	0.000	0.000	11.860	0.000	0.032
L22	52.500-47.000	A	0.000	0.000	8.896	0.000	0.000
		B	0.000	0.000	10.601	0.000	0.054
		C	0.000	0.000	13.046	0.000	0.036
L23	47.000-45.250	A	0.000	0.000	2.831	0.000	0.000
		B	0.000	0.000	3.373	0.000	0.017
		C	0.000	0.000	4.151	0.000	0.011
L24	45.250-40.250	A	0.000	0.000	8.088	0.000	0.000
		B	0.000	0.000	9.637	0.000	0.049
		C	0.000	0.000	11.860	0.000	0.032
L25	40.250-38.083	A	0.000	0.000	3.505	0.000	0.000
		B	0.000	0.000	4.177	0.000	0.021
		C	0.000	0.000	5.140	0.000	0.014
L26	38.083-37.833	A	0.000	0.000	0.404	0.000	0.000
		B	0.000	0.000	0.482	0.000	0.002
		C	0.000	0.000	0.593	0.000	0.002
L27	37.833-32.833	A	0.000	0.000	8.088	0.000	0.000
		B	0.000	0.000	9.637	0.000	0.049
		C	0.000	0.000	11.860	0.000	0.032
L28	32.833-27.733	A	0.000	0.000	8.543	0.000	0.000
		B	0.000	0.000	10.124	0.000	0.050
		C	0.000	0.000	12.391	0.000	0.033
L29	27.733-27.500	A	0.000	0.000	0.411	0.000	0.000
		B	0.000	0.000	0.483	0.000	0.002
		C	0.000	0.000	0.587	0.000	0.002
L30	27.500-22.500	A	0.000	0.000	8.817	0.000	0.000
		B	0.000	0.000	10.367	0.000	0.049
		C	0.000	0.000	12.589	0.000	0.032
L31	22.500-19.500	A	0.000	0.000	6.415	0.000	0.000
		B	0.000	0.000	6.220	0.000	0.030
		C	0.000	0.000	7.553	0.000	0.019
L32	19.500-19.250	A	0.000	0.000	0.628	0.000	0.000
		B	0.000	0.000	0.518	0.000	0.002
		C	0.000	0.000	0.629	0.000	0.002
L33	19.250-14.250	A	0.000	0.000	13.677	0.000	0.000
		B	0.000	0.000	11.304	0.000	0.049
		C	0.000	0.000	14.777	0.000	0.032
L34	14.250-14.000	A	0.000	0.000	0.850	0.000	0.000
		B	0.000	0.000	0.706	0.000	0.002
		C	0.000	0.000	1.067	0.000	0.002
L35	14.000-13.750	A	0.000	0.000	0.850	0.000	0.000
		B	0.000	0.000	0.706	0.000	0.002
		C	0.000	0.000	1.067	0.000	0.002
L36	13.750-12.983	A	0.000	0.000	2.609	0.000	0.000
		B	0.000	0.000	2.165	0.000	0.008
		C	0.000	0.000	3.267	0.000	0.005
L37	12.983-12.817	A	0.000	0.000	0.565	0.000	0.000
		B	0.000	0.000	0.469	0.000	0.002
		C	0.000	0.000	0.643	0.000	0.001

Tower Section n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L38	12.817-12.650	A	0.000	0.000	0.568	0.000	0.000
		B	0.000	0.000	0.471	0.000	0.002
		C	0.000	0.000	0.647	0.000	0.001
L39	12.650-12.500	A	0.000	0.000	0.510	0.000	0.000
		B	0.000	0.000	0.423	0.000	0.001
		C	0.000	0.000	0.581	0.000	0.001
L40	12.500-12.250	A	0.000	0.000	0.850	0.000	0.000
		B	0.000	0.000	0.706	0.000	0.002
		C	0.000	0.000	0.968	0.000	0.001
L41	12.250-7.250	A	0.000	0.000	11.309	0.000	0.000
		B	0.000	0.000	14.117	0.000	0.049
		C	0.000	0.000	16.734	0.000	0.019
L42	7.250-2.250	A	0.000	0.000	8.817	0.000	0.000
		B	0.000	0.000	14.117	0.000	0.049
		C	0.000	0.000	14.984	0.000	0.019
L43	2.250-0.000	A	0.000	0.000	3.967	0.000	0.000
		B	0.000	0.000	6.353	0.000	0.022
		C	0.000	0.000	6.743	0.000	0.009

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

Tower Section n	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>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L1	108.000-103.000	A	1.432	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.491	0.000	0.031
		C		0.000	0.000	1.706	0.000	0.027
L2	103.000-99.750	A	1.426	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	2.418	0.000	0.049
		C		0.000	0.000	2.768	0.000	0.043
L3	99.750-98.000	A	1.423	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.301	0.000	0.034
		C		0.000	0.000	1.489	0.000	0.023
L4	98.000-93.000	A	1.418	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	3.710	0.000	0.113
		C		0.000	0.000	4.247	0.000	0.066
L5	93.000-88.000	A	1.410	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	3.700	0.000	0.113
		C		0.000	0.000	4.238	0.000	0.066
L6	88.000-83.000	A	1.402	0.000	0.000	1.005	0.000	0.009
		B		0.000	0.000	4.695	0.000	0.122
		C		0.000	0.000	5.233	0.000	0.075
L7	83.000-82.873	A	1.398	0.000	0.000	0.121	0.000	0.001
		B		0.000	0.000	0.215	0.000	0.004
		C		0.000	0.000	0.229	0.000	0.003
L8	82.873-82.623	A	1.398	0.000	0.000	0.239	0.000	0.002
		B		0.000	0.000	0.423	0.000	0.008
		C		0.000	0.000	0.450	0.000	0.006
L9	82.623-77.623	A	1.393	0.000	0.000	5.133	0.000	0.048
		B		0.000	0.000	8.812	0.000	0.160
		C		0.000	0.000	12.953	0.000	0.157
L10	77.623-76.250	A	1.388	0.000	0.000	2.606	0.000	0.024
		B		0.000	0.000	3.615	0.000	0.055
		C		0.000	0.000	5.224	0.000	0.059
L11	76.250-76.000	A	1.386	0.000	0.000	0.474	0.000	0.004
		B		0.000	0.000	0.658	0.000	0.010
		C		0.000	0.000	0.951	0.000	0.011
L12	76.000-75.750	A	1.386	0.000	0.000	0.474	0.000	0.004
		B		0.000	0.000	0.658	0.000	0.010
		C		0.000	0.000	0.951	0.000	0.011
L13	75.750-74.333	A	1.384	0.000	0.000	2.688	0.000	0.025
		B		0.000	0.000	3.727	0.000	0.056
		C		0.000	0.000	5.386	0.000	0.061
L14	74.333-74.083	A	1.383	0.000	0.000	0.474	0.000	0.004
		B		0.000	0.000	0.657	0.000	0.010
		C		0.000	0.000	0.950	0.000	0.011

Tower Sectio n	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>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L15	74.083-69.083	A	1.378	0.000	0.000	9.472	0.000	0.086
		B		0.000	0.000	13.131	0.000	0.198
		C		0.000	0.000	18.970	0.000	0.214
L16	69.083-64.083	A	1.368	0.000	0.000	9.452	0.000	0.085
		B		0.000	0.000	13.099	0.000	0.196
		C		0.000	0.000	18.915	0.000	0.212
L17	64.083-59.083	A	1.357	0.000	0.000	9.757	0.000	0.087
		B		0.000	0.000	13.391	0.000	0.198
		C		0.000	0.000	19.183	0.000	0.213
L18	59.083-58.083	A	1.350	0.000	0.000	2.158	0.000	0.019
		B		0.000	0.000	2.883	0.000	0.041
		C		0.000	0.000	4.038	0.000	0.044
L19	58.083-57.733	A	1.349	0.000	0.000	0.755	0.000	0.007
		B		0.000	0.000	1.009	0.000	0.014
		C		0.000	0.000	1.413	0.000	0.015
L20	57.733-57.500	A	1.348	0.000	0.000	0.503	0.000	0.004
		B		0.000	0.000	0.671	0.000	0.010
		C		0.000	0.000	0.940	0.000	0.010
L21	57.500-52.500	A	1.342	0.000	0.000	10.771	0.000	0.095
		B		0.000	0.000	14.386	0.000	0.204
		C		0.000	0.000	20.144	0.000	0.219
L22	52.500-47.000	A	1.328	0.000	0.000	11.819	0.000	0.103
		B		0.000	0.000	15.776	0.000	0.223
		C		0.000	0.000	22.077	0.000	0.238
L23	47.000-45.250	A	1.318	0.000	0.000	3.760	0.000	0.033
		B		0.000	0.000	5.020	0.000	0.071
		C		0.000	0.000	7.024	0.000	0.076
L24	45.250-40.250	A	1.308	0.000	0.000	10.704	0.000	0.092
		B		0.000	0.000	14.277	0.000	0.200
		C		0.000	0.000	19.960	0.000	0.213
L25	40.250-38.083	A	1.297	0.000	0.000	4.629	0.000	0.039
		B		0.000	0.000	6.172	0.000	0.086
		C		0.000	0.000	8.624	0.000	0.092
L26	38.083-37.833	A	1.293	0.000	0.000	0.534	0.000	0.005
		B		0.000	0.000	0.711	0.000	0.010
		C		0.000	0.000	0.994	0.000	0.011
L27	37.833-32.833	A	1.284	0.000	0.000	10.655	0.000	0.089
		B		0.000	0.000	14.197	0.000	0.197
		C		0.000	0.000	19.824	0.000	0.209
L28	32.833-27.733	A	1.264	0.000	0.000	11.122	0.000	0.091
		B		0.000	0.000	14.710	0.000	0.200
		C		0.000	0.000	20.404	0.000	0.211
L29	27.733-27.500	A	1.252	0.000	0.000	0.528	0.000	0.004
		B		0.000	0.000	0.691	0.000	0.009
		C		0.000	0.000	0.950	0.000	0.010
L30	27.500-22.500	A	1.240	0.000	0.000	11.297	0.000	0.090
		B		0.000	0.000	14.784	0.000	0.195
		C		0.000	0.000	20.313	0.000	0.205
L31	22.500-19.500	A	1.219	0.000	0.000	8.088	0.000	0.064
		B		0.000	0.000	8.829	0.000	0.115
		C		0.000	0.000	12.117	0.000	0.121
L32	19.500-19.250	A	1.209	0.000	0.000	0.784	0.000	0.006
		B		0.000	0.000	0.734	0.000	0.010
		C		0.000	0.000	1.007	0.000	0.010
L33	19.250-14.250	A	1.191	0.000	0.000	17.037	0.000	0.133
		B		0.000	0.000	15.861	0.000	0.198
		C		0.000	0.000	20.045	0.000	0.213
L34	14.250-14.000	A	1.171	0.000	0.000	1.058	0.000	0.008
		B		0.000	0.000	0.974	0.000	0.011
		C		0.000	0.000	0.997	0.000	0.013
L35	14.000-13.750	A	1.169	0.000	0.000	1.058	0.000	0.008
		B		0.000	0.000	0.974	0.000	0.011
		C		0.000	0.000	0.996	0.000	0.013
L36	13.750-12.983	A	1.165	0.000	0.000	3.243	0.000	0.025
		B		0.000	0.000	2.984	0.000	0.034
		C		0.000	0.000	3.039	0.000	0.039
L37	12.983-12.817	A	1.161	0.000	0.000	0.702	0.000	0.005
		B		0.000	0.000	0.645	0.000	0.007
		C		0.000	0.000	0.530	0.000	0.007

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	A <sub>R</sub>	A <sub>F</sub>	C <sub>A</sub> A <sub>A</sub> In Face	C <sub>A</sub> A <sub>A</sub> Out Face	Weight
n	ft		in	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
L38	12.817-12.650	A	1.159	0.000	0.000	0.706	0.000	0.005
		B		0.000	0.000	0.649	0.000	0.007
		C		0.000	0.000	0.533	0.000	0.007
L39	12.650-12.500	A	1.158	0.000	0.000	0.634	0.000	0.005
		B		0.000	0.000	0.583	0.000	0.007
		C		0.000	0.000	0.478	0.000	0.006
L40	12.500-12.250	A	1.156	0.000	0.000	1.056	0.000	0.008
		B		0.000	0.000	0.971	0.000	0.011
		C		0.000	0.000	0.797	0.000	0.010
L41	12.250-7.250	A	1.129	0.000	0.000	14.096	0.000	0.103
		B		0.000	0.000	19.300	0.000	0.214
		C		0.000	0.000	12.512	0.000	0.179
L42	7.250-2.250	A	1.050	0.000	0.000	10.898	0.000	0.073
		B		0.000	0.000	18.967	0.000	0.201
		C		0.000	0.000	10.056	0.000	0.152
L43	2.250-0.000	A	0.909	0.000	0.000	4.785	0.000	0.028
		B		0.000	0.000	8.266	0.000	0.080
		C		0.000	0.000	4.319	0.000	0.059

**Feed Line Center of Pressure**

Section	Elevation	CP <sub>x</sub>	CP <sub>z</sub>	CP <sub>x</sub>	CP <sub>z</sub>
	ft	in	in	Ice in	Ice in
L1	108.000-103.000	-1.175	-0.130	-0.796	-0.180
L2	103.000-99.750	-1.718	-0.190	-1.147	-0.260
L3	99.750-98.000	-1.771	-0.233	-1.319	-0.330
L4	98.000-93.000	-1.874	-0.275	-1.470	-0.392
L5	93.000-88.000	-1.886	-0.281	-1.495	-0.402
L6	88.000-83.000	-1.541	-0.232	-1.352	-0.366
L7	83.000-82.873	-0.893	-0.135	-0.967	-0.263
L8	82.873-82.623	-0.894	-0.136	-0.968	-0.263
L9	82.623-77.623	-1.288	0.217	-1.509	0.267
L10	77.623-76.250	-1.085	0.076	-1.411	0.239
L11	76.250-76.000	-0.999	0.070	-1.417	0.240
L12	76.000-75.750	-1.092	0.076	-1.419	0.240
L13	75.750-74.333	-1.097	0.076	-1.426	0.241
L14	74.333-74.083	-1.102	0.077	-1.432	0.242
L15	74.083-69.083	-1.118	0.077	-1.452	0.246
L16	69.083-64.083	-1.148	0.079	-1.488	0.252
L17	64.083-59.083	-1.142	0.076	-1.501	0.252
L18	59.083-58.083	-0.969	0.047	-1.450	0.233
L19	58.083-57.733	-0.970	0.047	-1.454	0.234
L20	57.733-57.500	-0.972	0.047	-1.456	0.234
L21	57.500-52.500	-0.983	0.048	-1.474	0.237
L22	52.500-47.000	-1.107	0.053	-1.509	0.242
L23	47.000-45.250	-1.114	0.053	-1.518	0.244
L24	45.250-40.250	-1.132	0.053	-1.537	0.246
L25	40.250-38.083	-1.154	0.054	-1.559	0.249
L26	38.083-37.833	-1.160	0.054	-1.566	0.250
L27	37.833-32.833	-1.174	0.054	-1.582	0.252
L28	32.833-27.733	-1.179	0.033	-1.593	0.240
L29	27.733-27.500	-1.162	0.002	-1.580	0.220
L30	27.500-22.500	-1.175	0.002	-1.594	0.221
L31	22.500-19.500	-1.670	-0.379	-1.937	-0.054
L32	19.500-19.250	-2.116	-0.730	-2.252	-0.316
L33	19.250-14.250	-2.450	-0.333	-2.031	-0.362
L34	14.250-14.000	-2.899	0.497	-1.466	-0.465
L35	14.000-13.750	-2.902	0.497	-1.467	-0.465
L36	13.750-12.983	-2.884	0.488	-1.452	-0.476
L37	12.983-12.817	-2.574	0.175	-0.945	-1.019
L38	12.817-12.650	-2.581	0.175	-0.947	-1.021
L39	12.650-12.500	-2.583	0.175	-0.948	-1.022
L40	12.500-12.250	-2.588	0.176	-0.949	-1.024
L41	12.250-7.250	-2.829	1.013	-0.678	-0.533
L42	7.250-2.250	-2.941	1.375	-0.564	-0.389

Section	Elevation	CP <sub>x</sub>	CP <sub>z</sub>	CP <sub>x</sub> Ice	CP <sub>z</sub> Ice
	ft	in	in	in	in
L43	2.250-0.000	-2.983	1.395	-0.541	-0.406

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	33	LDF6-50A(1-1/4)	103.00 - 105.00	1.0000	1.0000
L1	37	HB158-1-08U8-S8J18(1-5/8)	103.00 - 105.00	1.0000	1.0000
L2	33	LDF6-50A(1-1/4)	99.75 - 103.00	1.0000	1.0000
L2	37	HB158-1-08U8-S8J18(1-5/8)	99.75 - 103.00	1.0000	1.0000
L3	33	LDF6-50A(1-1/4)	98.00 - 99.75	1.0000	1.0000
L3	37	HB158-1-08U8-S8J18(1-5/8)	98.00 - 99.75	1.0000	1.0000
L4	33	LDF6-50A(1-1/4)	93.00 - 98.00	1.0000	1.0000
L4	37	HB158-1-08U8-S8J18(1-5/8)	93.00 - 98.00	1.0000	1.0000
L5	33	LDF6-50A(1-1/4)	88.00 - 93.00	1.0000	1.0000
L5	37	HB158-1-08U8-S8J18(1-5/8)	88.00 - 93.00	1.0000	1.0000
L6	26	MP3-03	83.00 - 84.05	1.0000	1.0000
L6	27	MP3-03	83.00 - 84.05	1.0000	1.0000
L6	28	MP3-03	83.00 - 84.05	1.0000	1.0000
L6	33	LDF6-50A(1-1/4)	83.00 - 88.00	1.0000	1.0000
L6	37	HB158-1-08U8-S8J18(1-5/8)	83.00 - 88.00	1.0000	1.0000
L7	26	MP3-03	82.87 - 83.00	1.0000	1.0000
L7	27	MP3-03	82.87 - 83.00	1.0000	1.0000
L7	28	MP3-03	82.87 - 83.00	1.0000	1.0000
L7	33	LDF6-50A(1-1/4)	82.87 - 83.00	1.0000	1.0000
L7	37	HB158-1-08U8-S8J18(1-5/8)	82.87 - 83.00	1.0000	1.0000
L8	26	MP3-03	82.62 - 82.87	1.0000	1.0000
L8	27	MP3-03	82.62 - 82.87	1.0000	1.0000
L8	28	MP3-03	82.62 - 82.87	1.0000	1.0000
L8	33	LDF6-50A(1-1/4)	82.62 - 82.87	1.0000	1.0000
L8	37	HB158-1-08U8-S8J18(1-5/8)	82.62 - 82.87	1.0000	1.0000
L9	13	4.0" x 1.25" Plate	77.62 - 78.00	1.0000	1.0000
L9	14	4.0" x 1.25" Plate	77.62 - 78.00	1.0000	1.0000
L9	15	4.0" x 1.25" Plate	77.62 - 78.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L9	26	MP3-03	77.62 - 82.62	1.0000	1.0000
L9	27	MP3-03	77.62 - 82.62	1.0000	1.0000
L9	28	MP3-03	77.62 - 82.62	1.0000	1.0000
L9	33	LDF6-50A(1-1/4)	77.62 - 82.62	1.0000	1.0000
L9	37	HB158-1-08U8-S8J18(1-5/8)	77.62 - 82.62	1.0000	1.0000
L9	41	ATCB-B01(5/16)	77.62 - 81.00	1.0000	1.0000
L9	42	FXL 780 PE(7/8)	77.62 - 81.00	1.0000	1.0000
L10	13	4.0" x 1.25" Plate	76.25 - 77.62	1.0000	1.0000
L10	14	4.0" x 1.25" Plate	76.25 - 77.62	1.0000	1.0000
L10	15	4.0" x 1.25" Plate	76.25 - 77.62	1.0000	1.0000
L10	26	MP3-03	76.25 - 77.62	1.0000	1.0000
L10	27	MP3-03	76.25 - 77.62	1.0000	1.0000
L10	28	MP3-03	76.25 - 77.62	1.0000	1.0000
L10	33	LDF6-50A(1-1/4)	76.25 - 77.62	1.0000	1.0000
L10	37	HB158-1-08U8-S8J18(1-5/8)	76.25 - 77.62	1.0000	1.0000
L10	41	ATCB-B01(5/16)	76.25 - 77.62	1.0000	1.0000
L10	42	FXL 780 PE(7/8)	76.25 - 77.62	1.0000	1.0000
L11	13	4.0" x 1.25" Plate	76.00 - 76.25	1.0000	1.0000
L11	14	4.0" x 1.25" Plate	76.00 - 76.25	1.0000	1.0000
L11	15	4.0" x 1.25" Plate	76.00 - 76.25	1.0000	1.0000
L11	26	MP3-03	76.00 - 76.25	1.0000	1.0000
L11	27	MP3-03	76.00 - 76.25	1.0000	1.0000
L11	28	MP3-03	76.00 - 76.25	1.0000	1.0000
L11	33	LDF6-50A(1-1/4)	76.00 - 76.25	1.0000	1.0000
L11	37	HB158-1-08U8-S8J18(1-5/8)	76.00 - 76.25	1.0000	1.0000
L11	41	ATCB-B01(5/16)	76.00 - 76.25	1.0000	1.0000
L11	42	FXL 780 PE(7/8)	76.00 - 76.25	1.0000	1.0000
L12	13	4.0" x 1.25" Plate	75.75 - 76.00	1.0000	1.0000
L12	14	4.0" x 1.25" Plate	75.75 - 76.00	1.0000	1.0000
L12	15	4.0" x 1.25" Plate	75.75 - 76.00	1.0000	1.0000
L12	26	MP3-03	75.75 - 76.00	1.0000	1.0000
L12	27	MP3-03	75.75 - 76.00	1.0000	1.0000
L12	28	MP3-03	75.75 - 76.00	1.0000	1.0000
L12	33	LDF6-50A(1-1/4)	75.75 - 76.00	1.0000	1.0000
L12	37	HB158-1-08U8-S8J18(1-	75.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>s</sub> No Ice	K <sub>s</sub> Ice
			76.00		
L12	41	ATCB-B01(5/16)	75.75 - 76.00	1.0000	1.0000
L12	42	FXL 780 PE(7/8)	75.75 - 76.00	1.0000	1.0000
L13	13	4.0" x 1.25" Plate	74.33 - 75.75	1.0000	1.0000
L13	14	4.0" x 1.25" Plate	74.33 - 75.75	1.0000	1.0000
L13	15	4.0" x 1.25" Plate	74.33 - 75.75	1.0000	1.0000
L13	26	MP3-03	74.33 - 75.75	1.0000	1.0000
L13	27	MP3-03	74.33 - 75.75	1.0000	1.0000
L13	28	MP3-03	74.33 - 75.75	1.0000	1.0000
L13	33	LDF6-50A(1-1/4)	74.33 - 75.75	1.0000	1.0000
L13	37	HB158-1-08U8-S8J18(1-5/8)	74.33 - 75.75	1.0000	1.0000
L13	41	ATCB-B01(5/16)	74.33 - 75.75	1.0000	1.0000
L13	42	FXL 780 PE(7/8)	74.33 - 75.75	1.0000	1.0000
L14	13	4.0" x 1.25" Plate	74.08 - 74.33	1.0000	1.0000
L14	14	4.0" x 1.25" Plate	74.08 - 74.33	1.0000	1.0000
L14	15	4.0" x 1.25" Plate	74.08 - 74.33	1.0000	1.0000
L14	26	MP3-03	74.08 - 74.33	1.0000	1.0000
L14	27	MP3-03	74.08 - 74.33	1.0000	1.0000
L14	28	MP3-03	74.08 - 74.33	1.0000	1.0000
L14	33	LDF6-50A(1-1/4)	74.08 - 74.33	1.0000	1.0000
L14	37	HB158-1-08U8-S8J18(1-5/8)	74.08 - 74.33	1.0000	1.0000
L14	41	ATCB-B01(5/16)	74.08 - 74.33	1.0000	1.0000
L14	42	FXL 780 PE(7/8)	74.08 - 74.33	1.0000	1.0000
L15	13	4.0" x 1.25" Plate	69.08 - 74.08	1.0000	1.0000
L15	14	4.0" x 1.25" Plate	69.08 - 74.08	1.0000	1.0000
L15	15	4.0" x 1.25" Plate	69.08 - 74.08	1.0000	1.0000
L15	26	MP3-03	69.08 - 74.08	1.0000	1.0000
L15	27	MP3-03	69.08 - 74.08	1.0000	1.0000
L15	28	MP3-03	69.08 - 74.08	1.0000	1.0000
L15	33	LDF6-50A(1-1/4)	69.08 - 74.08	1.0000	1.0000
L15	37	HB158-1-08U8-S8J18(1-5/8)	69.08 - 74.08	1.0000	1.0000
L15	41	ATCB-B01(5/16)	69.08 - 74.08	1.0000	1.0000
L15	42	FXL 780 PE(7/8)	69.08 - 74.08	1.0000	1.0000
L16	13	4.0" x 1.25" Plate	64.08 - 69.08	1.0000	1.0000
L16	14	4.0" x 1.25" Plate	64.08 - 69.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L16	15	4.0" x 1.25" Plate	64.08 - 69.08	1.0000	1.0000
L16	26	MP3-03	64.08 - 69.08	1.0000	1.0000
L16	27	MP3-03	64.08 - 69.08	1.0000	1.0000
L16	28	MP3-03	64.08 - 69.08	1.0000	1.0000
L16	33	LDF6-50A(1-1/4)	64.08 - 69.08	1.0000	1.0000
L16	37	HB158-1-08U8-S8J18(1-5/8)	64.08 - 69.08	1.0000	1.0000
L16	41	ATCB-B01(5/16)	64.08 - 69.08	1.0000	1.0000
L16	42	FXL 780 PE(7/8)	64.08 - 69.08	1.0000	1.0000
L17	9	4.375" x 1.25" Plate	59.08 - 59.50	1.0000	1.0000
L17	10	4.375" x 1.25" Plate	59.08 - 59.50	1.0000	1.0000
L17	11	4.375" x 1.25" Plate	59.08 - 59.50	1.0000	1.0000
L17	13	4.0" x 1.25" Plate	59.50 - 64.08	1.0000	1.0000
L17	14	4.0" x 1.25" Plate	59.50 - 64.08	1.0000	1.0000
L17	15	4.0" x 1.25" Plate	59.50 - 64.08	1.0000	1.0000
L17	22	MP3-05	59.08 - 60.50	1.0000	1.0000
L17	23	MP3-05	59.08 - 60.50	1.0000	1.0000
L17	24	MP3-05	59.08 - 60.50	1.0000	1.0000
L17	26	MP3-03	60.50 - 64.08	1.0000	1.0000
L17	27	MP3-03	60.50 - 64.08	1.0000	1.0000
L17	28	MP3-03	60.50 - 64.08	1.0000	1.0000
L17	33	LDF6-50A(1-1/4)	59.08 - 64.08	1.0000	1.0000
L17	37	HB158-1-08U8-S8J18(1-5/8)	59.08 - 64.08	1.0000	1.0000
L17	41	ATCB-B01(5/16)	59.08 - 64.08	1.0000	1.0000
L17	42	FXL 780 PE(7/8)	59.08 - 64.08	1.0000	1.0000
L18	9	4.375" x 1.25" Plate	58.08 - 59.08	1.0000	1.0000
L18	10	4.375" x 1.25" Plate	58.08 - 59.08	1.0000	1.0000
L18	11	4.375" x 1.25" Plate	58.08 - 59.08	1.0000	1.0000
L18	22	MP3-05	58.08 - 59.08	1.0000	1.0000
L18	23	MP3-05	58.08 - 59.08	1.0000	1.0000
L18	24	MP3-05	58.08 - 59.08	1.0000	1.0000
L18	33	LDF6-50A(1-1/4)	58.08 - 59.08	1.0000	1.0000
L18	37	HB158-1-08U8-S8J18(1-5/8)	58.08 - 59.08	1.0000	1.0000
L18	41	ATCB-B01(5/16)	58.08 - 59.08	1.0000	1.0000
L18	42	FXL 780 PE(7/8)	58.08 - 59.08	1.0000	1.0000
L19	9	4.375" x 1.25" Plate	57.73 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L19	10	4.375" x 1.25" Plate	58.08 57.73 - 58.08	1.0000	1.0000
L19	11	4.375" x 1.25" Plate	57.73 - 58.08	1.0000	1.0000
L19	22	MP3-05	57.73 - 58.08	1.0000	1.0000
L19	23	MP3-05	57.73 - 58.08	1.0000	1.0000
L19	24	MP3-05	57.73 - 58.08	1.0000	1.0000
L19	33	LDF6-50A(1-1/4)	57.73 - 58.08	1.0000	1.0000
L19	37	HB158-1-08U8-S8J18(1-5/8)	57.73 - 58.08	1.0000	1.0000
L19	41	ATCB-B01(5/16)	57.73 - 58.08	1.0000	1.0000
L19	42	FXL 780 PE(7/8)	57.73 - 58.08	1.0000	1.0000
L20	9	4.375" x 1.25" Plate	57.50 - 57.73	1.0000	1.0000
L20	10	4.375" x 1.25" Plate	57.50 - 57.73	1.0000	1.0000
L20	11	4.375" x 1.25" Plate	57.50 - 57.73	1.0000	1.0000
L20	22	MP3-05	57.50 - 57.73	1.0000	1.0000
L20	23	MP3-05	57.50 - 57.73	1.0000	1.0000
L20	24	MP3-05	57.50 - 57.73	1.0000	1.0000
L20	33	LDF6-50A(1-1/4)	57.50 - 57.73	1.0000	1.0000
L20	37	HB158-1-08U8-S8J18(1-5/8)	57.50 - 57.73	1.0000	1.0000
L20	41	ATCB-B01(5/16)	57.50 - 57.73	1.0000	1.0000
L20	42	FXL 780 PE(7/8)	57.50 - 57.73	1.0000	1.0000
L21	9	4.375" x 1.25" Plate	52.50 - 57.50	1.0000	1.0000
L21	10	4.375" x 1.25" Plate	52.50 - 57.50	1.0000	1.0000
L21	11	4.375" x 1.25" Plate	52.50 - 57.50	1.0000	1.0000
L21	22	MP3-05	52.50 - 57.50	1.0000	1.0000
L21	23	MP3-05	52.50 - 57.50	1.0000	1.0000
L21	24	MP3-05	52.50 - 57.50	1.0000	1.0000
L21	33	LDF6-50A(1-1/4)	52.50 - 57.50	1.0000	1.0000
L21	37	HB158-1-08U8-S8J18(1-5/8)	52.50 - 57.50	1.0000	1.0000
L21	41	ATCB-B01(5/16)	52.50 - 57.50	1.0000	1.0000
L21	42	FXL 780 PE(7/8)	52.50 - 57.50	1.0000	1.0000
L22	9	4.375" x 1.25" Plate	47.00 - 52.50	1.0000	1.0000
L22	10	4.375" x 1.25" Plate	47.00 - 52.50	1.0000	1.0000
L22	11	4.375" x 1.25" Plate	47.00 - 52.50	1.0000	1.0000
L22	22	MP3-05	47.00 - 52.50	1.0000	1.0000
L22	23	MP3-05	47.00 - 52.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L22	24	MP3-05	47.00 - 52.50	1.0000	1.0000
L22	33	LDF6-50A(1-1/4)	47.00 - 52.50	1.0000	1.0000
L22	37	HB158-1-08U8-S8J18(1-5/8)	47.00 - 52.50	1.0000	1.0000
L22	41	ATCB-B01(5/16)	47.00 - 52.50	1.0000	1.0000
L22	42	FXL 780 PE(7/8)	47.00 - 52.50	1.0000	1.0000
L23	9	4.375" x 1.25" Plate	45.25 - 47.00	1.0000	1.0000
L23	10	4.375" x 1.25" Plate	45.25 - 47.00	1.0000	1.0000
L23	11	4.375" x 1.25" Plate	45.25 - 47.00	1.0000	1.0000
L23	22	MP3-05	45.25 - 47.00	1.0000	1.0000
L23	23	MP3-05	45.25 - 47.00	1.0000	1.0000
L23	24	MP3-05	45.25 - 47.00	1.0000	1.0000
L23	33	LDF6-50A(1-1/4)	45.25 - 47.00	1.0000	1.0000
L23	37	HB158-1-08U8-S8J18(1-5/8)	45.25 - 47.00	1.0000	1.0000
L23	41	ATCB-B01(5/16)	45.25 - 47.00	1.0000	1.0000
L23	42	FXL 780 PE(7/8)	45.25 - 47.00	1.0000	1.0000
L24	9	4.375" x 1.25" Plate	40.25 - 45.25	1.0000	1.0000
L24	10	4.375" x 1.25" Plate	40.25 - 45.25	1.0000	1.0000
L24	11	4.375" x 1.25" Plate	40.25 - 45.25	1.0000	1.0000
L24	17	MP3-05	40.25 - 40.50	1.0000	1.0000
L24	19	MP3-05	40.25 - 40.50	1.0000	1.0000
L24	20	MP3-05	40.25 - 40.50	1.0000	1.0000
L24	22	MP3-05	40.50 - 45.25	1.0000	1.0000
L24	23	MP3-05	40.50 - 45.25	1.0000	1.0000
L24	24	MP3-05	40.50 - 45.25	1.0000	1.0000
L24	33	LDF6-50A(1-1/4)	40.25 - 45.25	1.0000	1.0000
L24	37	HB158-1-08U8-S8J18(1-5/8)	40.25 - 45.25	1.0000	1.0000
L24	41	ATCB-B01(5/16)	40.25 - 45.25	1.0000	1.0000
L24	42	FXL 780 PE(7/8)	40.25 - 45.25	1.0000	1.0000
L25	9	4.375" x 1.25" Plate	38.08 - 40.25	1.0000	1.0000
L25	10	4.375" x 1.25" Plate	38.08 - 40.25	1.0000	1.0000
L25	11	4.375" x 1.25" Plate	38.08 - 40.25	1.0000	1.0000
L25	17	MP3-05	38.08 - 40.25	1.0000	1.0000
L25	19	MP3-05	38.08 - 40.25	1.0000	1.0000
L25	20	MP3-05	38.08 - 40.25	1.0000	1.0000
L25	33	LDF6-50A(1-1/4)	38.08 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			40.25		
L25	37	HB158-1-08U8-S8J18(1-5/8)	38.08 -	1.0000	1.0000
			40.25		
L25	41	ATCB-B01(5/16)	38.08 -	1.0000	1.0000
			40.25		
L25	42	FXL 780 PE(7/8)	38.08 -	1.0000	1.0000
			40.25		
L26	9	4.375" x 1.25" Plate	37.83 -	1.0000	1.0000
			38.08		
L26	10	4.375" x 1.25" Plate	37.83 -	1.0000	1.0000
			38.08		
L26	11	4.375" x 1.25" Plate	37.83 -	1.0000	1.0000
			38.08		
L26	17	MP3-05	37.83 -	1.0000	1.0000
			38.08		
L26	19	MP3-05	37.83 -	1.0000	1.0000
			38.08		
L26	20	MP3-05	37.83 -	1.0000	1.0000
			38.08		
L26	33	LDF6-50A(1-1/4)	37.83 -	1.0000	1.0000
			38.08		
L26	37	HB158-1-08U8-S8J18(1-5/8)	37.83 -	1.0000	1.0000
			38.08		
L26	41	ATCB-B01(5/16)	37.83 -	1.0000	1.0000
			38.08		
L26	42	FXL 780 PE(7/8)	37.83 -	1.0000	1.0000
			38.08		
L27	9	4.375" x 1.25" Plate	32.83 -	1.0000	1.0000
			37.83		
L27	10	4.375" x 1.25" Plate	32.83 -	1.0000	1.0000
			37.83		
L27	11	4.375" x 1.25" Plate	32.83 -	1.0000	1.0000
			37.83		
L27	17	MP3-05	32.83 -	1.0000	1.0000
			37.83		
L27	19	MP3-05	32.83 -	1.0000	1.0000
			37.83		
L27	20	MP3-05	32.83 -	1.0000	1.0000
			37.83		
L27	33	LDF6-50A(1-1/4)	32.83 -	1.0000	1.0000
			37.83		
L27	37	HB158-1-08U8-S8J18(1-5/8)	32.83 -	1.0000	1.0000
			37.83		
L27	41	ATCB-B01(5/16)	32.83 -	1.0000	1.0000
			37.83		
L27	42	FXL 780 PE(7/8)	32.83 -	1.0000	1.0000
			37.83		
L28	4	5.25" x 1.25" Plate	27.73 -	1.0000	1.0000
			29.75		
L28	6	5.25" x 1.25" Plate	27.73 -	1.0000	1.0000
			29.75		
L28	7	5.25" x 1.25" Plate	27.73 -	1.0000	1.0000
			29.75		
L28	9	4.375" x 1.25" Plate	29.75 -	1.0000	1.0000
			32.83		
L28	10	4.375" x 1.25" Plate	29.75 -	1.0000	1.0000
			32.83		
L28	11	4.375" x 1.25" Plate	29.75 -	1.0000	1.0000
			32.83		
L28	17	MP3-05	27.73 -	1.0000	1.0000
			32.83		
L28	19	MP3-05	27.73 -	1.0000	1.0000
			32.83		
L28	20	MP3-05	27.73 -	1.0000	1.0000
			32.83		
L28	33	LDF6-50A(1-1/4)	27.73 -	1.0000	1.0000
			32.83		
L28	37	HB158-1-08U8-S8J18(1-5/8)	27.73 -	1.0000	1.0000
			32.83		

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L28	41	ATCB-B01(5/16)	27.73 - 32.83	1.0000	1.0000
L28	42	FXL 780 PE(7/8)	27.73 - 32.83	1.0000	1.0000
L29	4	5.25" x 1.25" Plate	27.50 - 27.73	1.0000	1.0000
L29	6	5.25" x 1.25" Plate	27.50 - 27.73	1.0000	1.0000
L29	7	5.25" x 1.25" Plate	27.50 - 27.73	1.0000	1.0000
L29	17	MP3-05	27.50 - 27.73	1.0000	1.0000
L29	19	MP3-05	27.50 - 27.73	1.0000	1.0000
L29	20	MP3-05	27.50 - 27.73	1.0000	1.0000
L29	33	LDF6-50A(1-1/4)	27.50 - 27.73	1.0000	1.0000
L29	37	HB158-1-08U8-S8J18(1-5/8)	27.50 - 27.73	1.0000	1.0000
L29	41	ATCB-B01(5/16)	27.50 - 27.73	1.0000	1.0000
L29	42	FXL 780 PE(7/8)	27.50 - 27.73	1.0000	1.0000
L30	4	5.25" x 1.25" Plate	22.50 - 27.50	1.0000	1.0000
L30	6	5.25" x 1.25" Plate	22.50 - 27.50	1.0000	1.0000
L30	7	5.25" x 1.25" Plate	22.50 - 27.50	1.0000	1.0000
L30	17	MP3-05	22.50 - 27.50	1.0000	1.0000
L30	19	MP3-05	22.50 - 27.50	1.0000	1.0000
L30	20	MP3-05	22.50 - 27.50	1.0000	1.0000
L30	33	LDF6-50A(1-1/4)	22.50 - 27.50	1.0000	1.0000
L30	37	HB158-1-08U8-S8J18(1-5/8)	22.50 - 27.50	1.0000	1.0000
L30	41	ATCB-B01(5/16)	22.50 - 27.50	1.0000	1.0000
L30	42	FXL 780 PE(7/8)	22.50 - 27.50	1.0000	1.0000
L31	4	5.25" x 1.25" Plate	19.50 - 22.50	1.0000	1.0000
L31	6	5.25" x 1.25" Plate	19.50 - 22.50	1.0000	1.0000
L31	7	5.25" x 1.25" Plate	19.50 - 22.50	1.0000	1.0000
L31	17	MP3-05	19.50 - 22.50	1.0000	1.0000
L31	19	MP3-05	19.50 - 22.50	1.0000	1.0000
L31	20	MP3-05	19.50 - 22.50	1.0000	1.0000
L31	31	CCI 4.5" x 1" Plate	19.50 - 21.00	1.0000	1.0000
L31	33	LDF6-50A(1-1/4)	19.50 - 22.50	1.0000	1.0000
L31	37	HB158-1-08U8-S8J18(1-5/8)	19.50 - 22.50	1.0000	1.0000
L31	41	ATCB-B01(5/16)	19.50 - 22.50	1.0000	1.0000
L31	42	FXL 780 PE(7/8)	19.50 - 22.50	1.0000	1.0000
L32	4	5.25" x 1.25" Plate	19.25 - 19.50	1.0000	1.0000
L32	6	5.25" x 1.25" Plate	19.25 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>s</sub> No Ice	K <sub>s</sub> Ice
L32	7	5.25" x 1.25" Plate	19.50 19.25 - 19.50	1.0000	1.0000
L32	17	MP3-05	19.25 - 19.50	1.0000	1.0000
L32	19	MP3-05	19.25 - 19.50	1.0000	1.0000
L32	20	MP3-05	19.25 - 19.50	1.0000	1.0000
L32	31	CCI 4.5" x 1" Plate	19.25 - 19.50	1.0000	1.0000
L32	33	LDF6-50A(1-1/4)	19.25 - 19.50	1.0000	1.0000
L32	37	HB158-1-08U8-S8J18(1-5/8)	19.25 - 19.50	1.0000	1.0000
L32	41	ATCB-B01(5/16)	19.25 - 19.50	1.0000	1.0000
L32	42	FXL 780 PE(7/8)	19.25 - 19.50	1.0000	1.0000
L33	4	5.25" x 1.25" Plate	14.25 - 19.25	1.0000	1.0000
L33	5	5.25" x 1.25" Plate	14.25 - 15.50	1.0000	1.0000
L33	6	5.25" x 1.25" Plate	14.25 - 19.25	1.0000	1.0000
L33	7	5.25" x 1.25" Plate	14.25 - 19.25	1.0000	1.0000
L33	17	MP3-05	14.25 - 19.25	1.0000	1.0000
L33	18	MP3-05	14.25 - 15.50	1.0000	1.0000
L33	19	MP3-05	14.25 - 19.25	1.0000	1.0000
L33	20	MP3-05	14.25 - 19.25	1.0000	1.0000
L33	30	CCI 4.5" x 1" Plate	14.25 - 15.50	1.0000	1.0000
L33	31	CCI 4.5" x 1" Plate	14.25 - 19.25	1.0000	1.0000
L33	33	LDF6-50A(1-1/4)	14.25 - 19.25	1.0000	1.0000
L33	37	HB158-1-08U8-S8J18(1-5/8)	14.25 - 19.25	1.0000	1.0000
L33	41	ATCB-B01(5/16)	14.25 - 19.25	1.0000	1.0000
L33	42	FXL 780 PE(7/8)	14.25 - 19.25	1.0000	1.0000
L34	4	5.25" x 1.25" Plate	14.00 - 14.25	1.0000	1.0000
L34	5	5.25" x 1.25" Plate	14.00 - 14.25	1.0000	1.0000
L34	6	5.25" x 1.25" Plate	14.00 - 14.25	1.0000	1.0000
L34	7	5.25" x 1.25" Plate	14.00 - 14.25	1.0000	1.0000
L34	17	MP3-05	14.00 - 14.25	1.0000	1.0000
L34	18	MP3-05	14.00 - 14.25	1.0000	1.0000
L34	19	MP3-05	14.00 - 14.25	1.0000	1.0000
L34	20	MP3-05	14.00 - 14.25	1.0000	1.0000
L34	30	CCI 4.5" x 1" Plate	14.00 - 14.25	1.0000	1.0000
L34	31	CCI 4.5" x 1" Plate	14.00 - 14.25	1.0000	1.0000
L34	33	LDF6-50A(1-1/4)	14.00 - 14.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L34	37	HB158-1-08U8-S8J18(1-5/8)	14.00 - 14.25	1.0000	1.0000
L34	41	ATCB-B01(5/16)	14.00 - 14.25	1.0000	1.0000
L34	42	FXL 780 PE(7/8)	14.00 - 14.25	1.0000	1.0000
L35	4	5.25" x 1.25" Plate	13.75 - 14.00	1.0000	1.0000
L35	5	5.25" x 1.25" Plate	13.75 - 14.00	1.0000	1.0000
L35	6	5.25" x 1.25" Plate	13.75 - 14.00	1.0000	1.0000
L35	7	5.25" x 1.25" Plate	13.75 - 14.00	1.0000	1.0000
L35	17	MP3-05	13.75 - 14.00	1.0000	1.0000
L35	18	MP3-05	13.75 - 14.00	1.0000	1.0000
L35	19	MP3-05	13.75 - 14.00	1.0000	1.0000
L35	20	MP3-05	13.75 - 14.00	1.0000	1.0000
L35	30	CCI 4.5" x 1" Plate	13.75 - 14.00	1.0000	1.0000
L35	31	CCI 4.5" x 1" Plate	13.75 - 14.00	1.0000	1.0000
L35	33	LDF6-50A(1-1/4)	13.75 - 14.00	1.0000	1.0000
L35	37	HB158-1-08U8-S8J18(1-5/8)	13.75 - 14.00	1.0000	1.0000
L35	41	ATCB-B01(5/16)	13.75 - 14.00	1.0000	1.0000
L35	42	FXL 780 PE(7/8)	13.75 - 14.00	1.0000	1.0000
L36	4	5.25" x 1.25" Plate	12.98 - 13.75	1.0000	1.0000
L36	5	5.25" x 1.25" Plate	12.98 - 13.75	1.0000	1.0000
L36	6	5.25" x 1.25" Plate	12.98 - 13.75	1.0000	1.0000
L36	7	5.25" x 1.25" Plate	12.98 - 13.75	1.0000	1.0000
L36	17	MP3-05	12.98 - 13.75	1.0000	1.0000
L36	18	MP3-05	12.98 - 13.75	1.0000	1.0000
L36	19	MP3-05	12.98 - 13.75	1.0000	1.0000
L36	20	MP3-05	12.98 - 13.75	1.0000	1.0000
L36	30	CCI 4.5" x 1" Plate	12.98 - 13.75	1.0000	1.0000
L36	31	CCI 4.5" x 1" Plate	12.98 - 13.75	1.0000	1.0000
L36	33	LDF6-50A(1-1/4)	12.98 - 13.75	1.0000	1.0000
L36	37	HB158-1-08U8-S8J18(1-5/8)	13.00 - 13.75	1.0000	1.0000
L36	41	ATCB-B01(5/16)	12.98 - 13.75	1.0000	1.0000
L36	42	FXL 780 PE(7/8)	12.98 - 13.75	1.0000	1.0000
L37	4	5.25" x 1.25" Plate	12.82 - 12.98	1.0000	1.0000
L37	5	5.25" x 1.25" Plate	12.82 - 12.98	1.0000	1.0000
L37	6	5.25" x 1.25" Plate	12.82 - 12.98	1.0000	1.0000
L37	7	5.25" x 1.25" Plate	12.82 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L37	17	MP3-05	12.98 12.82 - 12.98	1.0000	1.0000
L37	18	MP3-05	12.82 - 12.98	1.0000	1.0000
L37	19	MP3-05	12.82 - 12.98	1.0000	1.0000
L37	20	MP3-05	12.82 - 12.98	1.0000	1.0000
L37	30	CCI 4.5" x 1" Plate	12.82 - 12.98	1.0000	1.0000
L37	31	CCI 4.5" x 1" Plate	12.82 - 12.98	1.0000	1.0000
L37	33	LDF6-50A(1-1/4)	12.82 - 12.98	1.0000	1.0000
L37	41	ATCB-B01(5/16)	12.82 - 12.98	1.0000	1.0000
L37	42	FXL 780 PE(7/8)	12.82 - 12.98	1.0000	1.0000
L38	4	5.25" x 1.25" Plate	12.65 - 12.82	1.0000	1.0000
L38	5	5.25" x 1.25" Plate	12.65 - 12.82	1.0000	1.0000
L38	6	5.25" x 1.25" Plate	12.65 - 12.82	1.0000	1.0000
L38	7	5.25" x 1.25" Plate	12.65 - 12.82	1.0000	1.0000
L38	17	MP3-05	12.65 - 12.82	1.0000	1.0000
L38	18	MP3-05	12.65 - 12.82	1.0000	1.0000
L38	19	MP3-05	12.65 - 12.82	1.0000	1.0000
L38	20	MP3-05	12.65 - 12.82	1.0000	1.0000
L38	30	CCI 4.5" x 1" Plate	12.65 - 12.82	1.0000	1.0000
L38	31	CCI 4.5" x 1" Plate	12.65 - 12.82	1.0000	1.0000
L38	33	LDF6-50A(1-1/4)	12.65 - 12.82	1.0000	1.0000
L38	41	ATCB-B01(5/16)	12.65 - 12.82	1.0000	1.0000
L38	42	FXL 780 PE(7/8)	12.65 - 12.82	1.0000	1.0000
L39	4	5.25" x 1.25" Plate	12.50 - 12.65	1.0000	1.0000
L39	5	5.25" x 1.25" Plate	12.50 - 12.65	1.0000	1.0000
L39	6	5.25" x 1.25" Plate	12.50 - 12.65	1.0000	1.0000
L39	7	5.25" x 1.25" Plate	12.50 - 12.65	1.0000	1.0000
L39	17	MP3-05	12.50 - 12.65	1.0000	1.0000
L39	18	MP3-05	12.50 - 12.65	1.0000	1.0000
L39	19	MP3-05	12.50 - 12.65	1.0000	1.0000
L39	20	MP3-05	12.50 - 12.65	1.0000	1.0000
L39	30	CCI 4.5" x 1" Plate	12.50 - 12.65	1.0000	1.0000
L39	31	CCI 4.5" x 1" Plate	12.50 - 12.65	1.0000	1.0000
L39	33	LDF6-50A(1-1/4)	12.50 - 12.65	1.0000	1.0000
L39	41	ATCB-B01(5/16)	12.50 - 12.65	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L39	42	FXL 780 PE(7/8)	12.50 - 12.65	1.0000	1.0000
L40	4	5.25" x 1.25" Plate	12.25 - 12.50	1.0000	1.0000
L40	5	5.25" x 1.25" Plate	12.25 - 12.50	1.0000	1.0000
L40	6	5.25" x 1.25" Plate	12.25 - 12.50	1.0000	1.0000
L40	7	5.25" x 1.25" Plate	12.25 - 12.50	1.0000	1.0000
L40	17	MP3-05	12.25 - 12.50	1.0000	1.0000
L40	18	MP3-05	12.25 - 12.50	1.0000	1.0000
L40	19	MP3-05	12.25 - 12.50	1.0000	1.0000
L40	20	MP3-05	12.25 - 12.50	1.0000	1.0000
L40	30	CCI 4.5" x 1" Plate	12.25 - 12.50	1.0000	1.0000
L40	31	CCI 4.5" x 1" Plate	12.25 - 12.50	1.0000	1.0000
L40	33	LDF6-50A(1-1/4)	12.25 - 12.50	1.0000	1.0000
L40	41	ATCB-B01(5/16)	12.25 - 12.50	1.0000	1.0000
L40	42	FXL 780 PE(7/8)	12.25 - 12.50	1.0000	1.0000
L41	4	5.25" x 1.25" Plate	7.25 - 12.25	1.0000	1.0000
L41	5	5.25" x 1.25" Plate	7.25 - 12.25	1.0000	1.0000
L41	6	5.25" x 1.25" Plate	10.25 - 12.25	1.0000	1.0000
L41	7	5.25" x 1.25" Plate	7.25 - 12.25	1.0000	1.0000
L41	17	MP3-05	7.25 - 12.25	1.0000	1.0000
L41	18	MP3-05	7.25 - 12.25	1.0000	1.0000
L41	19	MP3-05	10.50 - 12.25	1.0000	1.0000
L41	20	MP3-05	7.25 - 12.25	1.0000	1.0000
L41	30	CCI 4.5" x 1" Plate	7.25 - 12.25	1.0000	1.0000
L41	31	CCI 4.5" x 1" Plate	11.00 - 12.25	1.0000	1.0000
L41	33	LDF6-50A(1-1/4)	7.25 - 12.25	1.0000	1.0000
L41	41	ATCB-B01(5/16)	7.25 - 12.25	1.0000	1.0000
L41	42	FXL 780 PE(7/8)	7.25 - 12.25	1.0000	1.0000
L42	4	5.25" x 1.25" Plate	2.25 - 7.25	1.0000	1.0000
L42	5	5.25" x 1.25" Plate	2.25 - 7.25	1.0000	1.0000
L42	7	5.25" x 1.25" Plate	2.25 - 7.25	1.0000	1.0000
L42	17	MP3-05	2.25 - 7.25	1.0000	1.0000
L42	18	MP3-05	2.25 - 7.25	1.0000	1.0000
L42	20	MP3-05	2.25 - 7.25	1.0000	1.0000
L42	30	CCI 4.5" x 1" Plate	2.25 - 7.25	1.0000	1.0000
L42	33	LDF6-50A(1-1/4)	2.25 - 7.25	1.0000	1.0000
L42	41	ATCB-B01(5/16)	2.25 - 7.25	1.0000	1.0000
L42	42	FXL 780 PE(7/8)	2.25 - 7.25	1.0000	1.0000
L43	4	5.25" x 1.25" Plate	0.00 - 2.25	1.0000	1.0000
L43	5	5.25" x 1.25" Plate	0.00 - 2.25	1.0000	1.0000
L43	7	5.25" x 1.25" Plate	0.00 - 2.25	1.0000	1.0000
L43	17	MP3-05	0.00 - 2.25	1.0000	1.0000
L43	18	MP3-05	0.00 - 2.25	1.0000	1.0000
L43	20	MP3-05	0.00 - 2.25	1.0000	1.0000
L43	30	CCI 4.5" x 1" Plate	0.00 - 2.25	1.0000	1.0000
L43	33	LDF6-50A(1-1/4)	0.00 - 2.25	1.0000	1.0000
L43	41	ATCB-B01(5/16)	0.00 - 2.25	1.0000	1.0000
L43	42	FXL 780 PE(7/8)	0.00 - 2.25	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
L6	26	MP3-03	83.00 - 84.05	Auto	0.2656
L6	27	MP3-03	83.00 - 84.05	Auto	0.2656
L6	28	MP3-03	83.00 - 84.05	Auto	0.2656
L7	26	MP3-03	82.87 - 83.00	Auto	0.2615
L7	27	MP3-03	82.87 - 83.00	Auto	0.2615
L7	28	MP3-03	82.87 - 83.00	Auto	0.2615
L8	26	MP3-03	82.62 - 82.87	Auto	0.3360
L8	27	MP3-03	82.62 - 82.87	Auto	0.3360
L8	28	MP3-03	82.62 - 82.87	Auto	0.3360
L9	13	4.0" x 1.25" Plate	77.62 - 78.00	Auto	0.2886
L9	14	4.0" x 1.25" Plate	77.62 - 78.00	Auto	0.2886
L9	15	4.0" x 1.25" Plate	77.62 - 78.00	Auto	0.2886
L9	26	MP3-03	77.62 - 82.62	Auto	0.3151
L9	27	MP3-03	77.62 - 82.62	Auto	0.3151
L9	28	MP3-03	77.62 - 82.62	Auto	0.3151
L10	13	4.0" x 1.25" Plate	76.25 - 77.62	Auto	0.2824
L10	14	4.0" x 1.25" Plate	76.25 - 77.62	Auto	0.2824
L10	15	4.0" x 1.25" Plate	76.25 - 77.62	Auto	0.2824
L10	26	MP3-03	76.25 - 77.62	Auto	0.2930
L10	27	MP3-03	76.25 - 77.62	Auto	0.2930
L10	28	MP3-03	76.25 - 77.62	Auto	0.2930
L11	13	4.0" x 1.25" Plate	76.00 - 76.25	Auto	0.3839
L11	14	4.0" x 1.25" Plate	76.00 - 76.25	Auto	0.3839
L11	15	4.0" x 1.25" Plate	76.00 - 76.25	Auto	0.3839
L11	26	MP3-03	76.00 - 76.25	Auto	0.3930
L11	27	MP3-03	76.00 - 76.25	Auto	0.3930
L11	28	MP3-03	76.00 - 76.25	Auto	0.3930
L12	13	4.0" x 1.25" Plate	75.75 - 76.00	Auto	0.3189
L12	14	4.0" x 1.25" Plate	75.75 - 76.00	Auto	0.3189
L12	15	4.0" x 1.25" Plate	75.75 - 76.00	Auto	0.3189
L12	26	MP3-03	75.75 - 76.00	Auto	0.3290
L12	27	MP3-03	75.75 - 76.00	Auto	0.3290
L12	28	MP3-03	75.75 - 76.00	Auto	0.3290

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	13	4.0" x 1.25" Plate	76.00 74.33 - 75.75	Auto	0.3103
L13	14	4.0" x 1.25" Plate	74.33 - 75.75	Auto	0.3103
L13	15	4.0" x 1.25" Plate	74.33 - 75.75	Auto	0.3103
L13	26	MP3-03	74.33 - 75.75	Auto	0.3205
L13	27	MP3-03	74.33 - 75.75	Auto	0.3205
L13	28	MP3-03	74.33 - 75.75	Auto	0.3205
L14	13	4.0" x 1.25" Plate	74.08 - 74.33	Auto	0.3649
L14	14	4.0" x 1.25" Plate	74.08 - 74.33	Auto	0.3649
L14	15	4.0" x 1.25" Plate	74.08 - 74.33	Auto	0.3649
L14	26	MP3-03	74.08 - 74.33	Auto	0.3743
L14	27	MP3-03	74.08 - 74.33	Auto	0.3743
L14	28	MP3-03	74.08 - 74.33	Auto	0.3743
L15	13	4.0" x 1.25" Plate	69.08 - 74.08	Auto	0.3410
L15	14	4.0" x 1.25" Plate	69.08 - 74.08	Auto	0.3410
L15	15	4.0" x 1.25" Plate	69.08 - 74.08	Auto	0.3410
L15	26	MP3-03	69.08 - 74.08	Auto	0.3507
L15	27	MP3-03	69.08 - 74.08	Auto	0.3507
L15	28	MP3-03	69.08 - 74.08	Auto	0.3507
L16	13	4.0" x 1.25" Plate	64.08 - 69.08	Auto	0.2947
L16	14	4.0" x 1.25" Plate	64.08 - 69.08	Auto	0.2947
L16	15	4.0" x 1.25" Plate	64.08 - 69.08	Auto	0.2947
L16	26	MP3-03	64.08 - 69.08	Auto	0.3052
L16	27	MP3-03	64.08 - 69.08	Auto	0.3052
L16	28	MP3-03	64.08 - 69.08	Auto	0.3052
L17	9	4.375" x 1.25" Plate	59.08 - 59.50	Auto	0.3032
L17	10	4.375" x 1.25" Plate	59.08 - 59.50	Auto	0.3032
L17	11	4.375" x 1.25" Plate	59.08 - 59.50	Auto	0.3032
L17	13	4.0" x 1.25" Plate	59.50 - 64.08	Auto	0.2555
L17	14	4.0" x 1.25" Plate	59.50 - 64.08	Auto	0.2555
L17	15	4.0" x 1.25" Plate	59.50 - 64.08	Auto	0.2555
L17	22	MP3-05	59.08 - 60.50	Auto	0.4307
L17	23	MP3-05	59.08 - 60.50	Auto	0.4307
L17	24	MP3-05	59.08 - 60.50	Auto	0.4307
L17	26	MP3-03	60.50 -	Auto	0.2700

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L17	27	MP3-03	64.08 - 60.50	Auto	0.2700
L17	28	MP3-03	64.08 - 60.50	Auto	0.2700
L18	9	4.375" x 1.25" Plate	64.08 - 58.08	Auto	0.2987
L18	10	4.375" x 1.25" Plate	59.08 - 58.08	Auto	0.2987
L18	11	4.375" x 1.25" Plate	59.08 - 58.08	Auto	0.2987
L18	22	MP3-05	59.08 - 58.08	Auto	0.4243
L18	23	MP3-05	59.08 - 58.08	Auto	0.4243
L18	24	MP3-05	59.08 - 58.08	Auto	0.4243
L19	9	4.375" x 1.25" Plate	59.08 - 57.73	Auto	0.3195
L19	10	4.375" x 1.25" Plate	58.08 - 57.73	Auto	0.3195
L19	11	4.375" x 1.25" Plate	58.08 - 57.73	Auto	0.3195
L19	22	MP3-05	58.08 - 57.73	Auto	0.4414
L19	23	MP3-05	58.08 - 57.73	Auto	0.4414
L19	24	MP3-05	58.08 - 57.73	Auto	0.4414
L20	9	4.375" x 1.25" Plate	58.08 - 57.50	Auto	0.3176
L20	10	4.375" x 1.25" Plate	57.73 - 57.50	Auto	0.3176
L20	11	4.375" x 1.25" Plate	57.73 - 57.50	Auto	0.3176
L20	22	MP3-05	57.73 - 57.50	Auto	0.4398
L20	23	MP3-05	57.73 - 57.50	Auto	0.4398
L20	24	MP3-05	57.73 - 57.50	Auto	0.4398
L21	9	4.375" x 1.25" Plate	57.50 - 52.50	Auto	0.2907
L21	10	4.375" x 1.25" Plate	57.50 - 52.50	Auto	0.2907
L21	11	4.375" x 1.25" Plate	57.50 - 52.50	Auto	0.2907
L21	22	MP3-05	57.50 - 52.50	Auto	0.4178
L21	23	MP3-05	57.50 - 52.50	Auto	0.4178
L21	24	MP3-05	57.50 - 52.50	Auto	0.4178
L22	9	4.375" x 1.25" Plate	57.50 - 47.00	Auto	0.2569
L22	10	4.375" x 1.25" Plate	52.50 - 47.00	Auto	0.2569
L22	11	4.375" x 1.25" Plate	52.50 - 47.00	Auto	0.2569
L22	22	MP3-05	52.50 - 47.00	Auto	0.3900
L22	23	MP3-05	52.50 - 47.00	Auto	0.3900
L22	24	MP3-05	52.50 - 47.00	Auto	0.3900
L23	9	4.375" x 1.25" Plate	52.50 - 45.25	Auto	0.2687
L23	10	4.375" x 1.25" Plate	47.00 - 45.25	Auto	0.2687

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L23	11	4.375" x 1.25" Plate	47.00 45.25 - 47.00	Auto	0.2687
L23	22	MP3-05	45.25 - 47.00	Auto	0.3998
L23	23	MP3-05	45.25 - 47.00	Auto	0.3998
L23	24	MP3-05	45.25 - 47.00	Auto	0.3998
L24	9	4.375" x 1.25" Plate	40.25 - 45.25	Auto	0.2420
L24	10	4.375" x 1.25" Plate	40.25 - 45.25	Auto	0.2420
L24	11	4.375" x 1.25" Plate	40.25 - 45.25	Auto	0.2420
L24	17	MP3-05	40.25 - 40.50	Auto	0.3652
L24	19	MP3-05	40.25 - 40.50	Auto	0.3652
L24	20	MP3-05	40.25 - 40.50	Auto	0.3652
L24	22	MP3-05	40.50 - 45.25	Auto	0.3784
L24	23	MP3-05	40.50 - 45.25	Auto	0.3784
L24	24	MP3-05	40.50 - 45.25	Auto	0.3784
L25	9	4.375" x 1.25" Plate	38.08 - 40.25	Auto	0.2189
L25	10	4.375" x 1.25" Plate	38.08 - 40.25	Auto	0.2189
L25	11	4.375" x 1.25" Plate	38.08 - 40.25	Auto	0.2189
L25	17	MP3-05	38.08 - 40.25	Auto	0.3588
L25	19	MP3-05	38.08 - 40.25	Auto	0.3588
L25	20	MP3-05	38.08 - 40.25	Auto	0.3588
L26	9	4.375" x 1.25" Plate	37.83 - 38.08	Auto	0.2513
L26	10	4.375" x 1.25" Plate	37.83 - 38.08	Auto	0.2513
L26	11	4.375" x 1.25" Plate	37.83 - 38.08	Auto	0.2513
L26	17	MP3-05	37.83 - 38.08	Auto	0.3855
L26	19	MP3-05	37.83 - 38.08	Auto	0.3855
L26	20	MP3-05	37.83 - 38.08	Auto	0.3855
L27	9	4.375" x 1.25" Plate	32.83 - 37.83	Auto	0.2294
L27	10	4.375" x 1.25" Plate	32.83 - 37.83	Auto	0.2294
L27	11	4.375" x 1.25" Plate	32.83 - 37.83	Auto	0.2294
L27	17	MP3-05	32.83 - 37.83	Auto	0.3675
L27	19	MP3-05	32.83 - 37.83	Auto	0.3675
L27	20	MP3-05	32.83 - 37.83	Auto	0.3675
L28	4	5.25" x 1.25" Plate	27.73 - 29.75	Auto	0.3309
L28	6	5.25" x 1.25" Plate	27.73 - 29.75	Auto	0.3309
L28	7	5.25" x 1.25" Plate	27.73 -	Auto	0.3309

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L28	9	4.375" x 1.25" Plate	29.75 - 29.75 - 32.83	Auto	0.2135
L28	10	4.375" x 1.25" Plate	29.75 - 32.83	Auto	0.2135
L28	11	4.375" x 1.25" Plate	29.75 - 32.83	Auto	0.2135
L28	17	MP3-05	27.73 - 32.83	Auto	0.3491
L28	19	MP3-05	27.73 - 32.83	Auto	0.3491
L28	20	MP3-05	27.73 - 32.83	Auto	0.3491
L29	4	5.25" x 1.25" Plate	27.50 - 27.73	Auto	0.3248
L29	6	5.25" x 1.25" Plate	27.50 - 27.73	Auto	0.3248
L29	7	5.25" x 1.25" Plate	27.50 - 27.73	Auto	0.3248
L29	17	MP3-05	27.50 - 27.73	Auto	0.3350
L29	19	MP3-05	27.50 - 27.73	Auto	0.3350
L29	20	MP3-05	27.50 - 27.73	Auto	0.3350
L30	4	5.25" x 1.25" Plate	22.50 - 27.50	Auto	0.3024
L30	6	5.25" x 1.25" Plate	22.50 - 27.50	Auto	0.3024
L30	7	5.25" x 1.25" Plate	22.50 - 27.50	Auto	0.3024
L30	17	MP3-05	22.50 - 27.50	Auto	0.3129
L30	19	MP3-05	22.50 - 27.50	Auto	0.3129
L30	20	MP3-05	22.50 - 27.50	Auto	0.3129
L31	4	5.25" x 1.25" Plate	19.50 - 22.50	Auto	0.2768
L31	6	5.25" x 1.25" Plate	19.50 - 22.50	Auto	0.2768
L31	7	5.25" x 1.25" Plate	19.50 - 22.50	Auto	0.2768
L31	17	MP3-05	19.50 - 22.50	Auto	0.2876
L31	19	MP3-05	19.50 - 22.50	Auto	0.2876
L31	20	MP3-05	19.50 - 22.50	Auto	0.2876
L31	31	CCI 4.5" x 1" Plate	19.50 - 21.00	Auto	0.1515
L32	4	5.25" x 1.25" Plate	19.25 - 19.50	Auto	0.3058
L32	6	5.25" x 1.25" Plate	19.25 - 19.50	Auto	0.3058
L32	7	5.25" x 1.25" Plate	19.25 - 19.50	Auto	0.3058
L32	17	MP3-05	19.25 - 19.50	Auto	0.3162
L32	19	MP3-05	19.25 - 19.50	Auto	0.3162
L32	20	MP3-05	19.25 - 19.50	Auto	0.3162
L32	31	CCI 4.5" x 1" Plate	19.25 - 19.50	Auto	0.1900
L33	4	5.25" x 1.25" Plate	14.25 - 19.25	Auto	0.2833
L33	5	5.25" x 1.25" Plate	14.25 -	Auto	0.2732

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L33	6	5.25" x 1.25" Plate	15.50 14.25 - 19.25	Auto	0.2833
L33	7	5.25" x 1.25" Plate	14.25 - 19.25	Auto	0.2833
L33	17	MP3-05	14.25 - 19.25	Auto	0.2940
L33	18	MP3-05	14.25 - 15.50	Auto	0.2841
L33	19	MP3-05	14.25 - 19.25	Auto	0.2940
L33	20	MP3-05	14.25 - 19.25	Auto	0.2940
L33	30	CCI 4.5" x 1" Plate	14.25 - 15.50	Auto	0.1521
L33	31	CCI 4.5" x 1" Plate	14.25 - 19.25	Auto	0.1638
L34	4	5.25" x 1.25" Plate	14.00 - 14.25	Auto	0.2692
L34	5	5.25" x 1.25" Plate	14.00 - 14.25	Auto	0.2692
L34	6	5.25" x 1.25" Plate	14.00 - 14.25	Auto	0.2692
L34	7	5.25" x 1.25" Plate	14.00 - 14.25	Auto	0.2692
L34	17	MP3-05	14.00 - 14.25	Auto	0.2802
L34	18	MP3-05	14.00 - 14.25	Auto	0.2802
L34	19	MP3-05	14.00 - 14.25	Auto	0.2802
L34	20	MP3-05	14.00 - 14.25	Auto	0.2802
L34	30	CCI 4.5" x 1" Plate	14.00 - 14.25	Auto	0.1474
L34	31	CCI 4.5" x 1" Plate	14.00 - 14.25	Auto	0.1474
L35	4	5.25" x 1.25" Plate	13.75 - 14.00	Auto	0.2679
L35	5	5.25" x 1.25" Plate	13.75 - 14.00	Auto	0.2679
L35	6	5.25" x 1.25" Plate	13.75 - 14.00	Auto	0.2679
L35	7	5.25" x 1.25" Plate	13.75 - 14.00	Auto	0.2679
L35	17	MP3-05	13.75 - 14.00	Auto	0.2788
L35	18	MP3-05	13.75 - 14.00	Auto	0.2788
L35	19	MP3-05	13.75 - 14.00	Auto	0.2788
L35	20	MP3-05	13.75 - 14.00	Auto	0.2788
L35	30	CCI 4.5" x 1" Plate	13.75 - 14.00	Auto	0.1458
L35	31	CCI 4.5" x 1" Plate	13.75 - 14.00	Auto	0.1458
L36	4	5.25" x 1.25" Plate	12.98 - 13.75	Auto	0.3657
L36	5	5.25" x 1.25" Plate	12.98 - 13.75	Auto	0.3657
L36	6	5.25" x 1.25" Plate	12.98 - 13.75	Auto	0.3657
L36	7	5.25" x 1.25" Plate	12.98 - 13.75	Auto	0.3657
L36	17	MP3-05	12.98 - 13.75	Auto	0.3752
L36	18	MP3-05	12.98 -	Auto	0.3752

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L36	19	MP3-05	13.75 - 12.98	Auto	0.3752
L36	20	MP3-05	13.75 - 12.98	Auto	0.3752
L36	30	CCI 4.5" x 1" Plate	13.75 - 12.98	Auto	0.2600
L36	31	CCI 4.5" x 1" Plate	13.75 - 12.98	Auto	0.2600
L37	4	5.25" x 1.25" Plate	12.98 - 12.82	Auto	0.3213
L37	5	5.25" x 1.25" Plate	12.98 - 12.82	Auto	0.3213
L37	6	5.25" x 1.25" Plate	12.98 - 12.82	Auto	0.3213
L37	7	5.25" x 1.25" Plate	12.98 - 12.82	Auto	0.3213
L37	17	MP3-05	12.98 - 12.82	Auto	0.3315
L37	18	MP3-05	12.98 - 12.82	Auto	0.3315
L37	19	MP3-05	12.98 - 12.82	Auto	0.3315
L37	20	MP3-05	12.98 - 12.82	Auto	0.3315
L37	30	CCI 4.5" x 1" Plate	12.98 - 12.82	Auto	0.2082
L37	31	CCI 4.5" x 1" Plate	12.98 - 12.82	Auto	0.2082
L38	4	5.25" x 1.25" Plate	12.82 - 12.65	Auto	0.2869
L38	5	5.25" x 1.25" Plate	12.82 - 12.65	Auto	0.2869
L38	6	5.25" x 1.25" Plate	12.82 - 12.65	Auto	0.2869
L38	7	5.25" x 1.25" Plate	12.82 - 12.65	Auto	0.2869
L38	17	MP3-05	12.82 - 12.65	Auto	0.2976
L38	18	MP3-05	12.82 - 12.65	Auto	0.2976
L38	19	MP3-05	12.82 - 12.65	Auto	0.2976
L38	20	MP3-05	12.82 - 12.65	Auto	0.2976
L38	30	CCI 4.5" x 1" Plate	12.82 - 12.65	Auto	0.1680
L38	31	CCI 4.5" x 1" Plate	12.82 - 12.65	Auto	0.1680
L39	4	5.25" x 1.25" Plate	12.65 - 12.50	Auto	0.2860
L39	5	5.25" x 1.25" Plate	12.65 - 12.50	Auto	0.2860
L39	6	5.25" x 1.25" Plate	12.65 - 12.50	Auto	0.2860
L39	7	5.25" x 1.25" Plate	12.65 - 12.50	Auto	0.2860
L39	17	MP3-05	12.65 - 12.50	Auto	0.2967
L39	18	MP3-05	12.65 - 12.50	Auto	0.2967
L39	19	MP3-05	12.65 - 12.50	Auto	0.2967
L39	20	MP3-05	12.65 - 12.50	Auto	0.2967
L39	30	CCI 4.5" x 1" Plate	12.65 - 12.50	Auto	0.1670
L39	31	CCI 4.5" x 1" Plate	12.65 - 12.50	Auto	0.1670

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L40	4	5.25" x 1.25" Plate	12.65 - 12.25 - 12.50	Auto	0.2682
L40	5	5.25" x 1.25" Plate	12.25 - 12.50	Auto	0.2682
L40	6	5.25" x 1.25" Plate	12.25 - 12.50	Auto	0.2682
L40	7	5.25" x 1.25" Plate	12.25 - 12.50	Auto	0.2682
L40	17	MP3-05	12.25 - 12.50	Auto	0.2792
L40	18	MP3-05	12.25 - 12.50	Auto	0.2792
L40	19	MP3-05	12.25 - 12.50	Auto	0.2792
L40	20	MP3-05	12.25 - 12.50	Auto	0.2792
L40	30	CCI 4.5" x 1" Plate	12.25 - 12.50	Auto	0.1462
L40	31	CCI 4.5" x 1" Plate	12.25 - 12.50	Auto	0.1462
L41	4	5.25" x 1.25" Plate	7.25 - 12.25	Auto	0.2499
L41	5	5.25" x 1.25" Plate	7.25 - 12.25	Auto	0.2499
L41	6	5.25" x 1.25" Plate	10.25 - 12.25	Auto	0.2580
L41	7	5.25" x 1.25" Plate	7.25 - 12.25	Auto	0.2499
L41	17	MP3-05	7.25 - 12.25	Auto	0.2612
L41	18	MP3-05	7.25 - 12.25	Auto	0.2612
L41	19	MP3-05	10.50 - 12.25	Auto	0.2698
L41	20	MP3-05	7.25 - 12.25	Auto	0.2612
L41	30	CCI 4.5" x 1" Plate	7.25 - 12.25	Auto	0.1249
L41	31	CCI 4.5" x 1" Plate	11.00 - 12.25	Auto	0.1366
L42	4	5.25" x 1.25" Plate	2.25 - 7.25	Auto	0.2189
L42	5	5.25" x 1.25" Plate	2.25 - 7.25	Auto	0.2189
L42	7	5.25" x 1.25" Plate	2.25 - 7.25	Auto	0.2189
L42	17	MP3-05	2.25 - 7.25	Auto	0.2306
L42	18	MP3-05	2.25 - 7.25	Auto	0.2306
L42	20	MP3-05	2.25 - 7.25	Auto	0.2306
L42	30	CCI 4.5" x 1" Plate	2.25 - 7.25	Auto	0.0887
L43	4	5.25" x 1.25" Plate	0.00 - 2.25	Auto	0.1953
L43	5	5.25" x 1.25" Plate	0.00 - 2.25	Auto	0.1953
L43	7	5.25" x 1.25" Plate	0.00 - 2.25	Auto	0.1953
L43	17	MP3-05	0.00 - 2.25	Auto	0.2073
L43	18	MP3-05	0.00 - 2.25	Auto	0.2073
L43	20	MP3-05	0.00 - 2.25	Auto	0.2073
L43	30	CCI 4.5" x 1" Plate	0.00 - 2.25	Auto	0.0611

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement ft
***					
(2) SBNHH-1D65B w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	105.000
(2) SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	105.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement ft
(2) SBNHH-1D65B w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	105.000
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	105.000
MT6413-77A w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	105.000
MT6413-77A w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	105.000
(2) RFV01U-D1A	A	From Leg	4.000 0.000 0.000	0.000	105.000
RFV01U-D1A	C	From Leg	4.000 0.000 0.000	0.000	105.000
RFV01U-D2A	A	From Leg	4.000 0.000 0.000	0.000	105.000
RFV01U-D2A	B	From Leg	4.000 0.000 0.000	0.000	105.000
RFV01U-D2A	C	From Leg	4.000 0.000 0.000	0.000	105.000
DB-T1-6Z-8AB-0Z	A	From Leg	4.000 0.000 0.000	0.000	105.000
RVZDC-6627-PF-48	B	From Leg	4.000 0.000 0.000	0.000	105.000
Sector Mount [SM 502-3]	C	None		0.000	105.000
Dual Antenna Mounting Bracket	A	From Leg	4.000 0.000 0.000	0.000	105.000
Dual Antenna Mounting Bracket	B	From Leg	4.000 0.000 0.000	0.000	105.000
Dual Antenna Mounting Bracket	C	From Leg	4.000 0.000 0.000	0.000	105.000
***					
VV-65A-R1_TMO w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	99.000
VV-65A-R1_TMO w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	99.000
VV-65A-R1_TMO w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	99.000
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	99.000
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	99.000
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	99.000
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	99.000

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement
			Horz	Lateral		
			ft	ft		
			ft	ft		
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	99.000
			0.000			
			-1.000			
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	99.000
			0.000			
			-1.000			
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.000	0.000	0.000	99.000
			0.000			
			1.000			
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000	0.000	0.000	99.000
			0.000			
			1.000			
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000	0.000	0.000	99.000
			0.000			
			1.000			
RADIO 4480 B71_TMO	A	From Leg	4.000	0.000	0.000	99.000
			0.000			
			1.000			
RADIO 4480 B71_TMO	B	From Leg	4.000	0.000	0.000	99.000
			0.000			
			1.000			
RADIO 4480 B71_TMO	C	From Leg	4.000	0.000	0.000	99.000
			0.000			
			1.000			
Platform Mount [LP 1201-1_HR-1]	C	None			0.000	99.000
13.5' x 2 STD Horizontal Pipe	A	From Leg	4.000	0.000	0.000	99.000
			0.000			
			-2.000			
13.5' x 2 STD Horizontal Pipe	B	From Leg	4.000	0.000	0.000	99.000
			0.000			
			-2.000			
13.5' x 2 STD Horizontal Pipe	C	From Leg	4.000	0.000	0.000	99.000
			0.000			
			-2.000			
3' x 2" Pipe Mount	A	From Leg	4.000	0.000	0.000	99.000
			0.000			
			0.000			
3' x 2" Pipe Mount	B	From Leg	4.000	0.000	0.000	99.000
			0.000			
			0.000			
3' x 2" Pipe Mount	C	From Leg	4.000	0.000	0.000	99.000
			0.000			
			0.000			
(2) Site Pro 1 PRK-SFS-L	A	From Leg	2.000	0.000	0.000	99.000
			0.000			
			-5.000			
(2) Site Pro 1 PRK-SFS-L	B	From Leg	2.000	0.000	0.000	99.000
			0.000			
			-5.000			
(2) Site Pro 1 PRK-SFS-L	C	From Leg	2.000	0.000	0.000	99.000
			0.000			
			-5.000			
***						
HBX-6516DS-VTM w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	81.000
			0.000			
			-1.000			
HBX-6516DS-VTM w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	81.000
			0.000			
			-1.000			
HBX-6516DS-VTM w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	81.000
			0.000			
			-1.000			
T-Arm Mount [TA 602-3]	C	None			0.000	81.000
6' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	81.000
			0.000			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement ft
6' x 2" Mount Pipe	B	From Leg	-1.000 4.000 0.000	0.000	81.000
6' x 2" Mount Pipe	C	From Leg	-1.000 4.000 0.000 -1.000	0.000	81.000
****					

### Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service

Comb. No.	Description
50	Dead+Wind 330 deg - Service

### Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	108 - 103	Pole	Max Tension	48	0.000	0.000	-0.000
			Max. Compression	26	-8.659	-0.106	1.406
			Max. Mx	20	-3.510	7.704	0.764
			Max. My	2	-3.559	0.196	8.050
			Max. Vy	20	-3.729	7.704	0.764
			Max. Vx	2	-3.629	0.196	8.050
			Max. Torque	10			0.484
L2	103 - 99.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-8.922	-0.135	1.414
			Max. Mx	20	-3.637	20.154	0.859
			Max. My	2	-3.700	0.282	19.960
			Max. Vy	20	-3.938	20.154	0.859
			Max. Vx	2	-3.704	0.282	19.960
			Max. Torque	10			0.482
L3	99.75 - 98	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-20.023	-0.157	1.419
			Max. Mx	20	-8.799	28.777	0.911
			Max. My	2	-8.923	0.330	28.046
			Max. Vy	20	-8.581	28.777	0.911
			Max. Vx	2	-8.205	0.330	28.046
			Max. Torque	10			0.473
L4	98 - 93	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-20.581	-0.233	1.436
			Max. Mx	20	-9.074	72.895	1.065
			Max. My	2	-9.222	0.464	69.605
			Max. Vy	20	-9.075	72.895	1.065
			Max. Vx	2	-8.425	0.464	69.605
			Max. Torque	10			0.467
L5	93 - 88	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-21.154	-0.310	1.444
			Max. Mx	20	-9.384	119.438	1.215
			Max. My	2	-9.551	0.598	112.215
			Max. Vy	8	9.558	-119.266	0.222
			Max. Vx	2	-8.631	0.598	112.215
			Max. Torque	12			0.446
L6	88 - 83	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-21.771	-0.387	1.443
			Max. Mx	20	-9.728	168.378	1.361
			Max. My	2	-9.908	0.731	155.813
			Max. Vy	8	10.038	-168.230	0.074
			Max. Vx	2	-8.825	0.731	155.813
			Max. Torque	12			0.445
L7	83 - 82.873	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-21.789	-0.389	1.443
			Max. Mx	20	-9.744	169.652	1.365
			Max. My	2	-9.923	0.735	156.933
			Max. Vy	8	10.046	-169.505	0.070
			Max. Vx	2	-8.825	0.735	156.933
			Max. Torque	12			0.445
L8	82.873 - 82.623	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-21.835	-0.393	1.443
			Max. Mx	20	-9.769	172.166	1.372
			Max. My	2	-9.949	0.741	159.139
			Max. Vy	8	10.073	-172.020	0.063
			Max. Vx	2	-8.836	0.741	159.139
			Max. Torque	12			0.445
L9	82.623 - 77.623	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.169	-0.472	1.397

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L10	77.623 - 76.25	Pole	Max. Mx	20	-11.328	226.888	1.511
			Max. My	2	-11.533	0.874	206.880
			Max. Vy	8	11.623	-226.767	-0.092
			Max. Vx	2	-10.069	0.874	206.880
			Max. Torque	12			0.445
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.476	-0.493	1.379
			Max. Mx	20	-11.473	242.942	1.548
			Max. My	2	-11.681	0.910	220.742
			Max. Vy	8	11.783	-242.829	-0.135
L11	76.25 - 76	Pole	Max. Vx	2	-10.145	0.910	220.742
			Max. Torque	12			0.425
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.548	-0.498	1.377
			Max. Mx	20	-11.522	245.889	1.555
			Max. My	2	-11.729	0.917	223.278
			Max. Vy	8	11.807	-245.777	-0.143
			Max. Vx	2	-10.160	0.917	223.278
			Max. Torque	12			0.420
			Max Tension	1	0.000	0.000	0.000
L12	76 - 75.75	Pole	Max. Compression	26	-25.616	-0.501	1.374
			Max. Mx	20	-11.561	248.843	1.562
			Max. My	2	-11.768	0.924	225.819
			Max. Vy	8	11.838	-248.733	-0.151
			Max. Vx	2	-10.174	0.924	225.819
			Max. Torque	12			0.419
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-26.003	-0.523	1.354
			Max. Mx	20	-11.774	265.730	1.599
			Max. My	2	-11.987	0.961	240.286
L13	75.75 - 74.333	Pole	Max. Vy	8	12.014	-265.628	-0.196
			Max. Vx	2	-10.262	0.961	240.286
			Max. Torque	12			0.418
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-26.075	-0.528	1.352
			Max. Mx	20	-11.823	268.735	1.606
			Max. My	2	-12.034	0.968	242.851
			Max. Vy	8	12.039	-268.634	-0.204
			Max. Vx	2	-10.271	0.968	242.851
			Max. Torque	12			0.412
L14	74.333 - 74.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-27.502	-0.607	1.283
			Max. Mx	20	-12.651	330.432	1.740
			Max. My	2	-12.875	1.099	294.921
			Max. Vy	8	12.656	-330.361	-0.363
			Max. Vx	2	-10.571	1.099	294.921
			Max. Torque	12			0.411
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-28.941	-0.683	1.207
			Max. Mx	20	-13.504	395.182	1.871
L15	74.083 - 69.083	Pole	Max. My	2	-13.734	1.231	348.455
			Max. Vy	8	13.265	-395.144	-0.524
			Max. Vx	2	-10.861	1.231	348.455
			Max. Torque	8			0.408
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-30.400	-0.755	1.124
			Max. Mx	20	-14.377	462.968	2.002
			Max. My	2	-14.609	1.361	403.421
			Max. Vy	8	13.872	-462.964	-0.685
			Max. Vx	2	-11.146	1.361	403.421
L16	69.083 - 64.083	Pole	Max. Torque	8			0.406
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-28.941	-0.683	1.207
			Max. Mx	20	-13.504	395.182	1.871
			Max. My	2	-13.734	1.231	348.455
			Max. Vy	8	13.265	-395.144	-0.524
			Max. Vx	2	-10.861	1.231	348.455
			Max. Torque	8			0.408
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-30.400	-0.755	1.124
L17	64.083 - 59.083	Pole	Max. Mx	20	-14.377	462.968	2.002
			Max. My	2	-14.609	1.361	403.421
			Max. Vy	8	13.872	-462.964	-0.685
			Max. Vx	2	-11.146	1.361	403.421
			Max. Torque	8			0.406
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-28.941	-0.683	1.207
			Max. Mx	20	-13.504	395.182	1.871
			Max. My	2	-13.734	1.231	348.455
			Max. Vy	8	13.265	-395.144	-0.524
L18	59.083 - 58.083	Pole	Max. Vx	2	-10.861	1.231	348.455
			Max. Torque	8			0.408
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-28.941	-0.683	1.207
			Max. Mx	20	-13.504	395.182	1.871
			Max. My	2	-13.734	1.231	348.455
			Max. Vy	8	13.265	-395.144	-0.524
			Max. Vx	2	-10.861	1.231	348.455
			Max. Torque	8			0.408
			Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L19	58.083 - 57.733	Pole	Max. Compression	26	-30.699	-0.769	1.107
			Max. Mx	8	-14.555	-476.893	-0.717
			Max. My	2	-14.786	1.387	414.600
			Max. Vy	8	13.996	-476.893	-0.717
			Max. Vx	2	-11.232	1.387	414.600
			Max. Torque	8			0.405
			Max Tension	1	0.000	0.000	0.000
L20	57.733 - 57.5	Pole	Max. Compression	26	-30.814	-0.775	1.101
			Max. Mx	8	-14.631	-481.798	-0.729
			Max. My	2	-14.861	1.396	418.533
			Max. Vy	8	14.035	-481.798	-0.729
			Max. Vx	2	-11.259	1.396	418.533
			Max. Torque	8			0.404
			Max Tension	1	0.000	0.000	0.000
L21	57.5 - 52.5	Pole	Max. Compression	26	-30.891	-0.778	1.098
			Max. Mx	8	-14.680	-485.072	-0.736
			Max. My	2	-14.909	1.403	421.157
			Max. Vy	8	14.064	-485.072	-0.736
			Max. Vx	2	-11.279	1.403	421.157
			Max. Torque	8			0.404
			Max Tension	1	0.000	0.000	0.000
L22	52.5 - 47	Pole	Max. Compression	26	-32.526	-0.851	1.012
			Max. Mx	8	-15.706	-556.941	-0.899
			Max. My	2	-15.928	1.532	478.604
			Max. Vy	8	14.690	-556.941	-0.899
			Max. Vx	24	-11.817	255.937	446.784
			Max. Torque	8			0.404
			Max Tension	1	0.000	0.000	0.000
L23	47 - 45.25	Pole	Max. Compression	26	-33.268	-0.885	0.973
			Max. Mx	8	-16.177	-590.288	-0.972
			Max. My	2	-16.398	1.590	505.088
			Max. Vy	8	14.963	-590.288	-0.972
			Max. Vx	24	-12.055	271.355	473.614
			Max. Torque	8			0.403
			Max Tension	1	0.000	0.000	0.000
L24	45.25 - 40.25	Pole	Max. Compression	26	-35.747	-0.960	0.885
			Max. Mx	8	-17.897	-666.776	-1.135
			Max. My	2	-18.119	1.719	565.115
			Max. Vy	8	15.629	-666.776	-1.135
			Max. Vx	24	-12.631	306.810	535.303
			Max. Torque	8			0.402
			Max Tension	1	0.000	0.000	0.000
L25	40.25 - 38.083	Pole	Max. Compression	26	-37.496	-1.036	0.798
			Max. Mx	8	-19.070	-746.325	-1.299
			Max. My	2	-19.278	1.847	626.581
			Max. Vy	8	16.211	-746.325	-1.299
			Max. Vx	24	-13.140	343.803	599.654
			Max. Torque	8			0.401
			Max Tension	1	0.000	0.000	0.000
L26	38.083 - 37.833	Pole	Max. Compression	26	-38.260	-1.070	0.759
			Max. Mx	8	-19.585	-781.711	-1.370
			Max. My	2	-19.785	1.903	653.630
			Max. Vy	8	16.462	-781.711	-1.370
			Max. Vx	24	-13.359	360.295	628.338
			Max. Torque	8			0.400
			Max Tension	1	0.000	0.000	0.000
L27	37.833 - 32.833	Pole	Max. Compression	26	-38.351	-1.074	0.755
			Max. Mx	8	-19.654	-785.828	-1.378
			Max. My	2	-19.851	1.909	656.766
			Max. Vy	8	16.484	-785.828	-1.378
			Max. Vx	24	-13.379	362.215	631.678
			Max. Torque	8			0.400
			Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L28	32.833 - 27.733	Pole	Max. Compression	26	-40.170	-1.152	0.665
			Max. Mx	8	-20.892	-869.693	-1.542
			Max. My	2	-21.075	2.036	720.166
			Max. Vy	8	17.069	-869.693	-1.542
			Max. Vx	24	-13.890	401.386	699.799
			Max. Torque	8			0.400
			Max Tension	1	0.000	0.000	0.000
L29	27.733 - 27.5	Pole	Max. Compression	26	-42.106	-1.232	0.573
			Max. Mx	8	-22.244	-958.185	-1.709
			Max. My	2	-22.409	2.164	786.138
			Max. Vy	8	17.647	-958.185	-1.709
			Max. Vx	24	-14.395	442.830	771.859
			Max. Torque	8			0.399
			Max Tension	1	0.000	0.000	0.000
L30	27.5 - 22.5	Pole	Max. Compression	26	-42.195	-1.236	0.569
			Max. Mx	8	-22.313	-962.299	-1.717
			Max. My	2	-22.474	2.170	789.183
			Max. Vy	8	17.666	-962.299	-1.717
			Max. Vx	24	-14.412	444.759	775.213
			Max. Torque	8			0.398
			Max Tension	1	0.000	0.000	0.000
L31	22.5 - 19.5	Pole	Max. Compression	26	-44.108	-1.316	0.478
			Max. Mx	8	-23.656	-1051.979	-1.882
			Max. My	2	-23.795	2.294	855.123
			Max. Vy	8	18.214	-1051.979	-1.882
			Max. Vx	24	-14.892	486.869	848.420
			Max. Torque	8			0.398
			Max Tension	1	0.000	0.000	0.000
L32	19.5 - 19.25	Pole	Max. Compression	26	-45.271	-1.352	0.431
			Max. Mx	8	-24.477	-1107.063	-1.980
			Max. My	2	-24.600	2.368	895.223
			Max. Vy	8	18.524	-1107.063	-1.980
			Max. Vx	24	-15.165	512.782	893.463
			Max. Torque	8			0.401
			Max Tension	1	0.000	0.000	0.000
L33	19.25 - 14.25	Pole	Max. Compression	26	-45.373	-1.355	0.428
			Max. Mx	8	-24.557	-1111.695	-1.989
			Max. My	2	-24.676	2.375	898.582
			Max. Vy	8	18.542	-1111.695	-1.989
			Max. Vx	24	-15.181	514.963	897.254
			Max. Torque	8			0.402
			Max Tension	1	0.000	0.000	0.000
L34	14.25 - 14	Pole	Max. Compression	26	-47.452	-1.391	0.351
			Max. Mx	8	-26.014	-1205.665	-2.153
			Max. My	24	-26.039	559.247	974.224
			Max. Vy	8	19.053	-1205.665	-2.153
			Max. Vx	24	-15.629	559.247	974.224
			Max. Torque	8			0.407
			Max Tension	1	0.000	0.000	0.000
L35	14 - 13.75	Pole	Max. Compression	26	-47.561	-1.393	0.346
			Max. Mx	8	-26.094	-1210.429	-2.161
			Max. My	24	-26.118	561.495	978.130
			Max. Vy	8	19.070	-1210.429	-2.161
			Max. Vx	24	-15.644	561.495	978.130
			Max. Torque	8			0.407
			Max Tension	1	0.000	0.000	0.000
L36	13.75 - 12.983	Pole	Max. Compression	26	-47.671	-1.394	0.341
			Max. Mx	8	-26.168	-1215.200	-2.170
			Max. My	24	-26.192	563.746	982.042
			Max. Vy	8	19.095	-1215.200	-2.170
			Max. Vx	24	-15.666	563.746	982.042
			Max. Torque	8			0.406
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.080	-1.396	0.325
			Max. Mx	8	-26.463	-1229.879	-2.195

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L37	12.983 - 12.817	Pole	Max. My	24	-26.486	570.672	994.080
			Max. Vy	8	19.183	-1229.879	-2.195
			Max. Vx	24	-15.740	570.672	994.080
			Max. Torque	8			0.406
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.163	-1.398	0.324
			Max. Mx	8	-26.526	-1233.064	-2.199
			Max. My	24	-26.549	572.175	996.693
			Max. Vy	8	19.196	-1233.064	-2.199
			Max. Vx	24	-15.748	572.175	996.693
L38	12.817 - 12.65	Pole	Max. Torque	8			0.405
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.242	-1.398	0.323
			Max. Mx	8	-26.583	-1236.272	-2.204
			Max. My	24	-26.605	573.688	999.323
			Max. Vy	8	19.214	-1236.272	-2.204
			Max. Vx	24	-15.759	573.688	999.323
			Max. Torque	8			0.405
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.313	-1.399	0.322
L39	12.65 - 12.5	Pole	Max. Mx	8	-26.633	-1239.155	-2.208
			Max. My	24	-26.656	575.048	1001.688
			Max. Vy	8	19.229	-1239.155	-2.208
			Max. Vx	24	-15.768	575.048	1001.688
			Max. Torque	8			0.405
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.426	-1.400	0.320
			Max. Mx	8	-26.713	-1243.966	-2.215
			Max. My	24	-26.735	577.317	1005.631
			Max. Vy	8	19.255	-1243.966	-2.215
L40	12.5 - 12.25	Pole	Max. Vx	24	-15.785	577.317	1005.631
			Max. Torque	8			0.405
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.426	-1.400	0.320
			Max. Mx	8	-26.713	-1243.966	-2.215
			Max. My	24	-26.735	577.317	1005.631
			Max. Vy	8	19.255	-1243.966	-2.215
			Max. Vx	24	-15.785	577.317	1005.631
			Max. Torque	8			0.405
			Max Tension	1	0.000	0.000	0.000
L41	12.25 - 7.25	Pole	Max. Compression	26	-50.602	-1.472	0.256
			Max. Mx	8	-28.310	-1341.131	-2.356
			Max. My	24	-28.325	623.027	1085.090
			Max. Vy	8	19.618	-1341.131	-2.356
			Max. Vx	24	-16.010	623.027	1085.090
			Max. Torque	8			0.404
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.710	-1.564	0.187
			Max. Mx	8	-29.930	-1439.715	-2.497
			Max. My	24	-29.935	669.359	1165.625
L42	7.25 - 2.25	Pole	Max. Vy	8	19.831	-1439.715	-2.497
			Max. Vx	24	-16.223	669.359	1165.625
			Max. Torque	8			0.404
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-53.630	-1.601	0.161
			Max. Mx	8	-30.667	-1484.420	-2.559
			Max. My	24	-30.668	690.407	1202.209
			Max. Vy	8	19.925	-1484.420	-2.559
			Max. Vx	24	-16.318	690.407	1202.209
			Max. Torque	8			0.404
L43	2.25 - 0	Pole	Max. Compression	26	-53.630	-1.601	0.161
			Max. Mx	8	-30.667	-1484.420	-2.559
			Max. My	24	-30.668	690.407	1202.209
			Max. Vy	8	19.925	-1484.420	-2.559
			Max. Vx	24	-16.318	690.407	1202.209
			Max. Torque	8			0.404

**Maximum Reactions**

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	30	53.630	-4.969	-0.007
	Max. H <sub>x</sub>	20	30.676	19.790	0.027
	Max. H <sub>z</sub>	24	30.676	9.385	16.306
	Max. M <sub>x</sub>	24	1202.209	9.385	16.306

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. M <sub>z</sub>	8	1484.420	-19.911	-0.027
	Max. Torsion	8	0.404	-19.911	-0.027
	Min. Vert	5	23.007	-6.914	12.081
	Min. H <sub>x</sub>	8	30.676	-19.911	-0.027
	Min. H <sub>z</sub>	12	30.676	-9.376	-16.290
	Min. M <sub>x</sub>	12	-1200.876	-9.376	-16.290
	Min. M <sub>z</sub>	20	-1482.494	19.790	0.027
	Min. Torsion	20	-0.404	19.790	0.027

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturing Moment, M <sub>x</sub> kip-ft	Overturing Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	25.563	0.000	0.000	-0.354	-0.153	-0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	30.676	-0.027	-14.294	-1165.989	2.839	0.300
0.9 Dead+1.0 Wind 0 deg - No Ice	23.007	-0.027	-14.294	-1152.179	2.844	0.303
1.2 Dead+1.0 Wind 30 deg - No Ice	30.676	6.914	-12.081	-987.579	-563.367	0.071
0.9 Dead+1.0 Wind 30 deg - No Ice	23.007	6.914	-12.081	-975.791	-556.681	0.081
1.2 Dead+1.0 Wind 60 deg - No Ice	30.676	13.888	-8.047	-635.219	-1094.007	-0.223
0.9 Dead+1.0 Wind 60 deg - No Ice	23.007	13.888	-8.047	-627.803	-1081.415	-0.207
1.2 Dead+1.0 Wind 90 deg - No Ice	30.676	19.911	0.027	2.559	-1484.420	-0.404
0.9 Dead+1.0 Wind 90 deg - No Ice	23.007	19.911	0.027	2.646	-1467.891	-0.387
1.2 Dead+1.0 Wind 120 deg - No Ice	30.676	18.388	10.677	771.974	-1326.437	-0.094
0.9 Dead+1.0 Wind 120 deg - No Ice	23.007	18.388	10.677	763.576	-1311.781	-0.079
1.2 Dead+1.0 Wind 150 deg - No Ice	30.676	9.376	16.290	1200.876	-690.540	-0.162
0.9 Dead+1.0 Wind 150 deg - No Ice	23.007	9.376	16.290	1187.710	-682.863	-0.156
1.2 Dead+1.0 Wind 180 deg - No Ice	30.676	0.027	14.090	1154.524	-3.206	-0.300
0.9 Dead+1.0 Wind 180 deg - No Ice	23.007	0.027	14.090	1141.045	-3.119	-0.302
1.2 Dead+1.0 Wind 210 deg - No Ice	30.676	-7.231	12.629	1018.607	581.448	-0.070
0.9 Dead+1.0 Wind 210 deg - No Ice	23.007	-7.231	12.629	1006.835	574.716	-0.080
1.2 Dead+1.0 Wind 240 deg - No Ice	30.676	-13.886	8.046	634.329	1093.700	0.223
0.9 Dead+1.0 Wind 240 deg - No Ice	23.007	-13.886	8.046	627.170	1081.201	0.208
1.2 Dead+1.0 Wind 270 deg - No Ice	30.676	-19.790	-0.027	-3.483	1482.494	0.404
0.9 Dead+1.0 Wind 270 deg - No Ice	23.007	-19.790	-0.027	-3.314	1466.063	0.386
1.2 Dead+1.0 Wind 300 deg - No Ice	30.676	-18.384	-10.675	-772.803	1325.899	0.093
0.9 Dead+1.0 Wind 300 deg - No Ice	23.007	-18.384	-10.675	-764.149	1311.338	0.078
1.2 Dead+1.0 Wind 330 deg - No Ice	30.676	-9.385	-16.306	-1202.209	690.407	0.161
0.9 Dead+1.0 Wind 330 deg - No Ice	23.007	-9.385	-16.306	-1188.785	682.821	0.155
1.2 Dead+1.0 Ice+1.0 Temp	53.630	0.000	-0.000	-0.161	-1.601	-0.000
1.2 Dead+1.0 Wind 0	53.630	-0.007	-4.156	-355.751	-0.911	0.068

Load Combination	Vertical	Shear <sub>x</sub>	Shear <sub>z</sub>	Overturing Moment, M <sub>x</sub>	Overturing Moment, M <sub>z</sub>	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 30	53.630	2.064	-3.595	-307.696	-177.802	0.000
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 60	53.630	3.780	-2.187	-185.108	-321.055	-0.083
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 90	53.630	4.969	0.007	0.577	-405.941	-0.115
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120	53.630	4.754	2.757	216.714	-374.941	-0.029
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 150	53.630	2.524	4.380	349.583	-203.119	0.016
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 180	53.630	0.007	4.155	355.309	-2.470	-0.069
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210	53.630	-2.064	3.597	307.380	174.472	-0.001
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 240	53.630	-3.780	2.187	184.712	317.689	0.082
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270	53.630	-4.966	-0.007	-0.982	402.452	0.115
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	53.630	-4.753	-2.756	-217.099	371.526	0.029
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	53.630	-2.525	-4.381	-350.046	199.772	-0.017
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	25.563	-0.007	-3.567	-289.860	0.587	0.075
Dead+Wind 30 deg - Service	25.563	1.725	-3.014	-245.420	-139.978	0.019
Dead+Wind 60 deg - Service	25.563	3.454	-2.001	-157.399	-270.745	-0.053
Dead+Wind 90 deg - Service	25.563	4.932	0.007	0.364	-365.394	-0.098
Dead+Wind 120 deg - Service	25.563	4.555	2.645	189.718	-326.550	-0.022
Dead+Wind 150 deg - Service	25.563	2.330	4.048	296.688	-170.872	-0.040
Dead+Wind 180 deg - Service	25.563	0.007	3.516	286.502	-0.898	-0.075
Dead+Wind 210 deg - Service	25.563	-1.803	3.149	252.546	144.218	-0.019
Dead+Wind 240 deg - Service	25.563	-3.453	2.001	156.650	270.449	0.053
Dead+Wind 270 deg - Service	25.563	-4.902	-0.007	-1.121	364.698	0.098
Dead+Wind 300 deg - Service	25.563	-4.553	-2.644	-190.452	326.198	0.021
Dead+Wind 330 deg - Service	25.563	-2.332	-4.052	-297.547	170.619	0.040

### Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-25.563	0.000	0.000	25.563	0.000	0.000%
2	-0.027	-30.676	-14.294	0.027	30.676	14.294	0.000%
3	-0.027	-23.007	-14.294	0.027	23.007	14.294	0.000%
4	6.914	-30.676	-12.081	-6.914	30.676	12.081	0.000%
5	6.914	-23.007	-12.081	-6.914	23.007	12.081	0.000%
6	13.888	-30.676	-8.047	-13.888	30.676	8.047	0.000%
7	13.888	-23.007	-8.047	-13.888	23.007	8.047	0.000%
8	19.911	-30.676	0.027	-19.911	30.676	-0.027	0.000%
9	19.911	-23.007	0.027	-19.911	23.007	-0.027	0.000%
10	18.388	-30.676	10.677	-18.388	30.676	-10.677	0.000%
11	18.388	-23.007	10.677	-18.388	23.007	-10.677	0.000%
12	9.376	-30.676	16.290	-9.376	30.676	-16.290	0.000%
13	9.376	-23.007	16.290	-9.376	23.007	-16.290	0.000%
14	0.027	-30.676	14.090	-0.027	30.676	-14.090	0.000%
15	0.027	-23.007	14.090	-0.027	23.007	-14.090	0.000%
16	-7.231	-30.676	12.629	7.231	30.676	-12.629	0.000%
17	-7.231	-23.007	12.629	7.231	23.007	-12.629	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
18	-13.886	-30.676	8.046	13.886	30.676	-8.046	0.000%
19	-13.886	-23.007	8.046	13.886	23.007	-8.046	0.000%
20	-19.790	-30.676	-0.027	19.790	30.676	0.027	0.000%
21	-19.790	-23.007	-0.027	19.790	23.007	0.027	0.000%
22	-18.384	-30.676	-10.675	18.384	30.676	10.675	0.000%
23	-18.384	-23.007	-10.675	18.384	23.007	10.675	0.000%
24	-9.385	-30.676	-16.306	9.385	30.676	16.306	0.000%
25	-9.385	-23.007	-16.306	9.385	23.007	16.306	0.000%
26	0.000	-53.630	0.000	-0.000	53.630	0.000	0.000%
27	-0.007	-53.630	-4.156	0.007	53.630	4.156	0.000%
28	2.064	-53.630	-3.595	-2.064	53.630	3.595	0.000%
29	3.780	-53.630	-2.187	-3.780	53.630	2.187	0.000%
30	4.969	-53.630	0.007	-4.969	53.630	-0.007	0.000%
31	4.754	-53.630	2.757	-4.754	53.630	-2.757	0.000%
32	2.524	-53.630	4.380	-2.524	53.630	-4.380	0.000%
33	0.007	-53.630	4.155	-0.007	53.630	-4.155	0.000%
34	-2.064	-53.630	3.597	2.064	53.630	-3.597	0.000%
35	-3.780	-53.630	2.187	3.780	53.630	-2.187	0.000%
36	-4.966	-53.630	-0.007	4.966	53.630	0.007	0.000%
37	-4.753	-53.630	-2.756	4.753	53.630	2.756	0.000%
38	-2.525	-53.630	-4.381	2.525	53.630	4.381	0.000%
39	-0.007	-25.563	-3.567	0.007	25.563	3.567	0.000%
40	1.725	-25.563	-3.014	-1.725	25.563	3.014	0.000%
41	3.454	-25.563	-2.001	-3.454	25.563	2.001	0.000%
42	4.932	-25.563	0.007	-4.932	25.563	-0.007	0.000%
43	4.555	-25.563	2.645	-4.555	25.563	-2.645	0.000%
44	2.330	-25.563	4.048	-2.330	25.563	-4.048	0.000%
45	0.007	-25.563	3.516	-0.007	25.563	-3.516	0.000%
46	-1.803	-25.563	3.149	1.803	25.563	-3.149	0.000%
47	-3.453	-25.563	2.001	3.453	25.563	-2.001	0.000%
48	-4.902	-25.563	-0.007	4.902	25.563	0.007	0.000%
49	-4.553	-25.563	-2.644	4.553	25.563	2.644	0.000%
50	-2.332	-25.563	-4.052	2.332	25.563	4.052	0.000%

### Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00033889
3	Yes	5	0.00000001	0.00016142
4	Yes	6	0.00000001	0.00060899
5	Yes	6	0.00000001	0.00021696
6	Yes	6	0.00000001	0.00071981
7	Yes	6	0.00000001	0.00025059
8	Yes	5	0.00000001	0.00047911
9	Yes	5	0.00000001	0.00021100
10	Yes	6	0.00000001	0.00094322
11	Yes	6	0.00000001	0.00031214
12	Yes	6	0.00000001	0.00078371
13	Yes	6	0.00000001	0.00026820
14	Yes	5	0.00000001	0.00046277
15	Yes	5	0.00000001	0.00022617
16	Yes	6	0.00000001	0.00062288
17	Yes	6	0.00000001	0.00022052
18	Yes	6	0.00000001	0.00070106
19	Yes	6	0.00000001	0.00024432
20	Yes	5	0.00000001	0.00064476
21	Yes	5	0.00000001	0.00029054
22	Yes	6	0.00000001	0.00097102
23	Yes	6	0.00000001	0.00032147
24	Yes	6	0.00000001	0.00076251
25	Yes	6	0.00000001	0.00025989
26	Yes	4	0.00000001	0.00045872
27	Yes	6	0.00000001	0.00091711
28	Yes	7	0.00000001	0.00014121

29	Yes	7	0.00000001	0.00014641
30	Yes	6	0.00000001	0.00099475
31	Yes	7	0.00000001	0.00016713
32	Yes	7	0.00000001	0.00015393
33	Yes	6	0.00000001	0.00090026
34	Yes	7	0.00000001	0.00013736
35	Yes	7	0.00000001	0.00014216
36	Yes	6	0.00000001	0.00098427
37	Yes	7	0.00000001	0.00016852
38	Yes	7	0.00000001	0.00015441
39	Yes	4	0.00000001	0.00076119
40	Yes	5	0.00000001	0.00016766
41	Yes	5	0.00000001	0.00020388
42	Yes	4	0.00000001	0.00095421
43	Yes	5	0.00000001	0.00027315
44	Yes	5	0.00000001	0.00022896
45	Yes	4	0.00000001	0.00076659
46	Yes	5	0.00000001	0.00016773
47	Yes	5	0.00000001	0.00018934
48	Yes	4	0.00000001	0.00098278
49	Yes	5	0.00000001	0.00029696
50	Yes	5	0.00000001	0.00021346

**Maximum Tower Deflections - Service Wind**

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	108 - 103	15.414	49	1.357	0.005
L2	103 - 99.75	13.995	49	1.345	0.004
L3	99.75 - 98	13.095	49	1.295	0.002
L4	98 - 93	12.620	49	1.293	0.002
L5	93 - 88	11.290	49	1.241	0.002
L6	88 - 83	10.032	49	1.157	0.001
L7	83 - 82.873	8.877	49	1.046	0.001
L8	82.873 - 82.623	8.849	49	1.043	0.001
L9	82.623 - 77.623	8.795	49	1.040	0.001
L10	77.623 - 76.25	7.742	49	0.968	0.001
L11	76.25 - 76	7.467	49	0.947	0.001
L12	76 - 75.75	7.418	49	0.944	0.001
L13	75.75 - 74.333	7.368	49	0.941	0.001
L14	74.333 - 74.083	7.092	49	0.923	0.001
L15	74.083 - 69.083	7.044	49	0.920	0.001
L16	69.083 - 64.083	6.109	49	0.864	0.001
L17	64.083 - 59.083	5.238	49	0.800	0.001
L18	59.083 - 58.083	4.435	49	0.732	0.000
L19	58.083 - 57.733	4.283	49	0.718	0.000
L20	57.733 - 57.5	4.231	49	0.714	0.000
L21	57.5 - 52.5	4.196	49	0.711	0.000
L22	52.5 - 47	3.487	49	0.643	0.000
L23	50.25 - 45.25	3.191	49	0.612	0.000
L24	45.25 - 40.25	2.571	49	0.565	0.000
L25	40.25 - 38.083	2.017	49	0.494	0.000
L26	38.083 - 37.833	1.800	49	0.462	0.000
L27	37.833 - 32.833	1.776	49	0.459	0.000
L28	32.833 - 27.733	1.328	49	0.395	0.000
L29	27.733 - 27.5	0.940	49	0.332	0.000
L30	27.5 - 22.5	0.924	49	0.329	0.000
L31	22.5 - 19.5	0.614	49	0.264	0.000
L32	19.5 - 19.25	0.460	49	0.225	0.000
L33	19.25 - 14.25	0.449	49	0.222	0.000
L34	14.25 - 14	0.247	49	0.163	0.000
L35	14 - 13.75	0.239	49	0.160	0.000
L36	13.75 - 12.983	0.230	49	0.157	0.000
L37	12.983 - 12.817	0.206	49	0.150	0.000
L38	12.817 - 12.65	0.201	49	0.149	0.000
L39	12.65 - 12.5	0.195	49	0.147	0.000
L40	12.5 - 12.25	0.191	49	0.145	0.000
L41	12.25 - 7.25	0.183	49	0.142	0.000

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L42	7.25 - 2.25	0.064	49	0.085	0.000
L43	2.25 - 0	0.006	49	0.026	0.000

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

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
105.000	(2) SBNHH-1D65B w/ Mount Pipe	49	14.560	1.361	0.005	6602
99.000	VV-65A-R1_TMO w/ Mount Pipe	49	12.891	1.293	0.002	6241
81.000	HBX-6516DS-VTM w/ Mount Pipe	49	8.445	1.021	0.001	3566

**Maximum Tower Deflections - Design Wind**

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	108 - 103	62.601	22	5.492	0.021
L2	103 - 99.75	56.871	22	5.456	0.017
L3	99.75 - 98	53.222	22	5.266	0.009
L4	98 - 93	51.298	22	5.258	0.009
L5	93 - 88	45.901	22	5.050	0.007
L6	88 - 83	40.792	22	4.708	0.005
L7	83 - 82.873	36.097	22	4.258	0.004
L8	82.873 - 82.623	35.985	22	4.246	0.004
L9	82.623 - 77.623	35.763	22	4.233	0.004
L10	77.623 - 76.25	31.486	22	3.940	0.003
L11	76.25 - 76	30.367	22	3.854	0.003
L12	76 - 75.75	30.166	22	3.844	0.003
L13	75.75 - 74.333	29.965	22	3.831	0.003
L14	74.333 - 74.083	28.841	22	3.756	0.003
L15	74.083 - 69.083	28.644	22	3.745	0.003
L16	69.083 - 64.083	24.845	22	3.516	0.002
L17	64.083 - 59.083	21.301	22	3.258	0.002
L18	59.083 - 58.083	18.036	22	2.979	0.002
L19	58.083 - 57.733	17.419	22	2.923	0.002
L20	57.733 - 57.5	17.205	22	2.904	0.002
L21	57.5 - 52.5	17.064	22	2.892	0.002
L22	52.5 - 47	14.181	22	2.616	0.001
L23	50.25 - 45.25	12.979	22	2.489	0.001
L24	45.25 - 40.25	10.456	22	2.298	0.001
L25	40.25 - 38.083	8.202	22	2.008	0.001
L26	38.083 - 37.833	7.319	22	1.881	0.001
L27	37.833 - 32.833	7.221	22	1.869	0.001
L28	32.833 - 27.733	5.401	22	1.608	0.001
L29	27.733 - 27.5	3.822	22	1.349	0.001
L30	27.5 - 22.5	3.757	22	1.337	0.001
L31	22.5 - 19.5	2.495	22	1.074	0.000
L32	19.5 - 19.25	1.871	22	0.913	0.000
L33	19.25 - 14.25	1.823	22	0.901	0.000
L34	14.25 - 14	1.005	22	0.662	0.000
L35	14 - 13.75	0.970	22	0.650	0.000
L36	13.75 - 12.983	0.937	22	0.638	0.000
L37	12.983 - 12.817	0.836	22	0.611	0.000
L38	12.817 - 12.65	0.815	22	0.604	0.000
L39	12.65 - 12.5	0.794	22	0.597	0.000
L40	12.5 - 12.25	0.776	22	0.590	0.000
L41	12.25 - 7.25	0.745	22	0.579	0.000
L42	7.25 - 2.25	0.262	10	0.344	0.000
L43	2.25 - 0	0.025	10	0.108	0.000

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
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### Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
105.000	(2) SBNHH-1D65B w/ Mount Pipe	22	59.153	5.514	0.020	1933
99.000	VV-65A-R1_TMO w/ Mount Pipe	22	52.395	5.258	0.009	1663
81.000	HBX-6516DS-VTM w/ Mount Pipe	22	34.342	4.158	0.004	887

### Compression Checks

### Pole Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	KI/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
L1	108 - 103 (1)	TP8.625x8.625x0.313	5.000	0.000	0.0	8.161	-3.496	257.065	0.014
L2	103 - 99.75 (2)	TP8.625x8.625x0.313	3.250	0.000	0.0	8.161	-3.622	257.065	0.014
L3	99.75 - 98 (3)	TP16.5x8.625x1.049	1.750	0.000	0.0	25.216	-3.626	817.005	0.004
L4	98 - 93 (4)	TP17.3x16.5x0.188	5.000	0.000	0.0	10.184	-9.046	595.779	0.015
L5	93 - 88 (5)	TP18.101x17.3x0.188	5.000	0.000	0.0	10.660	-9.355	623.641	0.015
L6	88 - 83 (6)	TP18.901x18.101x0.188	5.000	0.000	0.0	11.137	-9.698	651.503	0.015
L7	83 - 82.873 (7)	TP18.921x18.901x0.188	0.127	0.000	0.0	11.149	-9.715	652.211	0.015
L8	82.873 - 82.623 (8)	TP18.961x18.921x0.363	0.250	0.000	0.0	21.399	-9.740	1251.850	0.008
L9	82.623 - 77.623 (9)	TP19.762x18.961x0.356	5.000	0.000	0.0	21.942	-11.295	1283.620	0.009
L10	77.623 - 76.25 (10)	TP19.981x19.762x0.356	1.373	0.000	0.0	22.191	-11.439	1298.160	0.009
L11	76.25 - 76 (11)	TP20.021x19.981x0.6	0.250	0.000	0.0	36.986	-11.489	2163.680	0.005
L12	76 - 75.75 (12)	TP20.061x20.021x0.456	0.250	0.000	0.0	28.391	-11.527	1660.860	0.007
L13	75.75 - 74.333 (13)	TP20.288x20.061x0.45	1.417	0.000	0.0	28.335	-11.740	1657.580	0.007
L14	74.333 - 74.083 (14)	TP20.328x20.288x0.588	0.250	0.000	0.0	36.811	-11.788	2153.430	0.005
L15	74.083 - 69.083 (15)	TP21.128x20.328x0.575	5.000	0.000	0.0	37.511	-12.614	2194.390	0.006
L16	69.083 - 64.083 (16)	TP21.929x21.128x0.55	5.000	0.000	0.0	37.321	-13.465	2183.270	0.006
L17	64.083 - 59.083 (17)	TP22.729x21.929x0.538	5.000	0.000	0.0	37.859	-14.337	2214.770	0.006
L18	59.083 - 58.083 (18)	TP22.889x22.729x0.538	1.000	0.000	0.0	38.132	-14.515	2230.740	0.007
L19	58.083 - 57.733 (19)	TP22.945x22.889x0.6	0.350	0.000	0.0	42.554	-14.592	2489.410	0.006
L20	57.733 - 57.5 (20)	TP22.982x22.945x0.6	0.233	0.000	0.0	42.625	-14.641	2493.560	0.006
L21	57.5 - 52.5 (21)	TP23.783x22.982x0.575	5.000	0.000	0.0	42.355	-15.667	2477.780	0.006
L22	52.5 - 47 (22)	TP24.663x23.783x0.575	5.500	0.000	0.0	43.012	-16.139	2516.230	0.006
L23	47 - 45.25 (23)	TP24.568x23.768x0.625	5.000	0.000	0.0	47.497	-17.858	2778.570	0.006
L24	45.25 - 40.25	TP25.368x24.568x0.613	5.000	0.000	0.0	48.127	-19.034	2815.430	0.007

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L25	(24) 40.25 - 38.083 (25)	TP25.715x25.368x0.613	2.167	0.000	0.0	48.801	-19.550	2854.870	0.007
L26	38.083 - 37.833 (26)	TP25.755x25.715x0.713	0.250	0.000	0.0	56.633	-19.620	3313.040	0.006
L27	37.833 - 32.833 (27)	TP26.555x25.755x0.7	5.000	0.000	0.0	57.445	-20.860	3360.550	0.006
L28	32.833 - 27.733 (28)	TP27.372x26.555x0.725	5.100	0.000	0.0	61.318	-22.216	3587.080	0.006
L29	27.733 - 27.5 (29)	TP27.409x27.372x0.725	0.233	0.000	0.0	61.403	-22.285	3592.100	0.006
L30	27.5 - 22.5 (30)	TP28.209x27.409x0.7	5.000	0.000	0.0	61.119	-23.632	3575.490	0.007
L31	22.5 - 19.5 (31)	TP28.689x28.209x0.688	3.000	0.000	0.0	61.103	-24.456	3574.530	0.007
L32	19.5 - 19.25 (32)	TP28.729x28.689x0.8	0.250	0.000	0.0	70.918	-24.537	4148.690	0.006
L33	19.25 - 14.25 (33)	TP29.529x28.729x0.775	5.000	0.000	0.0	70.731	-25.997	4137.790	0.006
L34	14.25 - 14 (34)	TP29.569x29.529x0.775	0.250	0.000	0.0	70.830	-26.078	4143.550	0.006
L35	14 - 13.75 (35)	TP29.609x29.569x0.775	0.250	0.000	0.0	70.928	-26.153	4149.310	0.006
L36	13.75 - 12.983 (36)	TP29.732x29.609x1.075	0.767	0.000	0.0	97.780	-26.448	5720.110	0.005
L37	12.983 - 12.817 (37)	TP29.759x29.732x0.95	0.166	0.000	0.0	86.867	-26.512	5081.720	0.005
L38	12.817 - 12.65 (38)	TP29.785x29.759x0.85	0.167	0.000	0.0	78.065	-26.568	4566.800	0.006
L39	12.65 - 12.5 (39)	TP29.809x29.785x0.85	0.150	0.000	0.0	78.130	-26.619	4570.590	0.006
L40	12.5 - 12.25 (40)	TP29.849x29.809x0.8	0.250	0.000	0.0	73.762	-26.699	4315.100	0.006
L41	12.25 - 7.25 (41)	TP30.65x29.849x0.788	5.000	0.000	0.0	74.641	-28.300	4366.510	0.006
L42	7.25 - 2.25 (42)	TP31.45x30.65x0.775	5.000	0.000	0.0	75.456	-29.926	4414.160	0.007
L43	2.25 - 0 (43)	TP31.81x31.45x0.763	2.250	0.000	0.0	75.140	-30.666	4395.710	0.007

### Pole Bending Design Data

Section No.	Elevation ft	Size	M <sub>ux</sub>	φM <sub>nx</sub>	Ratio M <sub>ux</sub> / φM <sub>nx</sub>	M <sub>uy</sub>	φM <sub>ny</sub>	Ratio M <sub>uy</sub> / φM <sub>ny</sub>
			kip-ft	kip-ft		kip-ft	kip-ft	
L1	108 - 103 (1)	TP8.625x8.625x0.313	8.214	56.708	0.145	0.000	56.708	0.000
L2	103 - 99.75 (2)	TP8.625x8.625x0.313	20.887	56.708	0.368	0.000	56.708	0.000
L3	99.75 - 98 (3)	TP16.5x8.625x1.049	20.886	143.116	0.146	0.000	143.116	0.000
L4	98 - 93 (4)	TP17.3x16.5x0.188	74.324	265.442	0.280	0.000	265.442	0.000
L5	93 - 88 (5)	TP18.101x17.3x0.188	121.532	290.644	0.418	0.000	290.644	0.000
L6	88 - 83 (6)	TP18.901x18.101x0.188	171.244	313.934	0.545	0.000	313.934	0.000
L7	83 - 82.873 (7)	TP18.921x18.901x0.188	172.540	314.534	0.549	0.000	314.534	0.000
L8	82.873 - 82.623 (8)	TP18.961x18.921x0.363	175.095	601.105	0.291	0.000	601.105	0.000
L9	82.623 - 77.623 (9)	TP19.762x18.961x0.356	230.747	643.803	0.358	0.000	643.803	0.000
L10	77.623 - 76.25 (10)	TP19.981x19.762x0.356	247.095	658.600	0.375	0.000	658.600	0.000
L11	76.25 - 76 (11)	TP20.021x19.981x0.6	250.098	1072.883	0.233	0.000	1072.883	0.000
L12	76 - 75.75 (12)	TP20.061x20.021x0.456	253.108	837.542	0.302	0.000	837.542	0.000
L13	75.75 - 74.333 (13)	TP20.288x20.061x0.45	270.328	846.317	0.319	0.000	846.317	0.000

Section No.	Elevation ft	Size	$M_{ux}$	$\phi M_{nx}$	Ratio	$M_{uy}$	$\phi M_{ny}$	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{nx}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{ny}}$
L14	74.333 - 74.083 (14)	TP20.328x20.288x0.588	273.395	1086.558	0.252	0.000	1086.558	0.000
L15	74.083 - 69.083 (15)	TP21.128x20.328x0.575	336.455	1154.817	0.291	0.000	1154.817	0.000
L16	69.083 - 64.083 (16)	TP21.929x21.128x0.55	402.839	1197.717	0.336	0.000	1197.717	0.000
L17	64.083 - 59.083 (17)	TP22.729x21.929x0.538	472.521	1263.042	0.374	0.000	1263.042	0.000
L18	59.083 - 58.083 (18)	TP22.889x22.729x0.538	486.853	1281.542	0.380	0.000	1281.542	0.000
L19	58.083 - 57.733 (19)	TP22.945x22.889x0.6	491.901	1425.825	0.345	0.000	1425.825	0.000
L20	57.733 - 57.5 (20)	TP22.982x22.945x0.6	495.271	1430.650	0.346	0.000	1430.650	0.000
L21	57.5 - 52.5 (21)	TP23.783x22.982x0.575	569.312	1476.933	0.385	0.000	1476.933	0.000
L22	52.5 - 47 (22)	TP24.663x23.783x0.575	603.710	1523.692	0.396	0.000	1523.692	0.000
L23	47 - 45.25 (23)	TP24.568x23.768x0.625	682.708	1706.500	0.400	0.000	1706.500	0.000
L24	45.25 - 40.25 (24)	TP25.368x24.568x0.613	764.998	1790.208	0.427	0.000	1790.208	0.000
L25	40.25 - 38.083 (25)	TP25.715x25.368x0.613	801.640	1841.333	0.435	0.000	1841.333	0.000
L26	38.083 - 37.833 (26)	TP25.755x25.715x0.713	805.905	2123.333	0.380	0.000	2123.333	0.000
L27	37.833 - 32.833 (27)	TP26.555x25.755x0.7	892.825	2226.658	0.401	0.000	2226.658	0.000
L28	32.833 - 27.733 (28)	TP27.372x26.555x0.725	984.642	2449.175	0.402	0.000	2449.175	0.000
L29	27.733 - 27.5 (29)	TP27.409x27.372x0.725	988.917	2456.125	0.403	0.000	2456.125	0.000
L30	27.5 - 22.5 (30)	TP28.209x27.409x0.7	1082.050	2524.608	0.429	0.000	2524.608	0.000
L31	22.5 - 19.5 (31)	TP28.689x28.209x0.688	1139.300	2571.375	0.443	0.000	2571.375	0.000
L32	19.5 - 19.25 (32)	TP28.729x28.689x0.8	1144.117	2964.833	0.386	0.000	2964.833	0.000
L33	19.25 - 14.25 (33)	TP29.529x28.729x0.775	1241.850	3049.425	0.407	0.000	3049.425	0.000
L34	14.25 - 14 (34)	TP29.569x29.529x0.775	1246.808	3058.033	0.408	0.000	3058.033	0.000
L35	14 - 13.75 (35)	TP29.609x29.569x0.775	1251.775	3066.650	0.408	0.000	3066.650	0.000
L36	13.75 - 12.983 (36)	TP29.732x29.609x1.075	1267.050	4158.533	0.305	0.000	4158.533	0.000
L37	12.983 - 12.817 (37)	TP29.759x29.732x0.95	1270.367	3730.267	0.341	0.000	3730.267	0.000
L38	12.817 - 12.65 (38)	TP29.785x29.759x0.85	1273.708	3378.817	0.377	0.000	3378.817	0.000
L39	12.65 - 12.5 (39)	TP29.809x29.785x0.85	1276.708	3384.500	0.377	0.000	3384.500	0.000
L40	12.5 - 12.25 (40)	TP29.849x29.809x0.8	1281.717	3210.900	0.399	0.000	3210.900	0.000
L41	12.25 - 7.25 (41)	TP30.65x29.849x0.788	1383.167	3343.858	0.414	0.000	3343.858	0.000
L42	7.25 - 2.25 (42)	TP31.45x30.65x0.775	1487.125	3476.092	0.428	0.000	3476.092	0.000
L43	2.25 - 0 (43)	TP31.81x31.45x0.763	1534.725	3506.025	0.438	0.000	3506.025	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual	$\phi V_n$	Ratio	Actual	$\phi T_n$	Ratio
			$V_u$ K	K	$\frac{V_u}{\phi V_n}$	$T_u$ kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	108 - 103 (1)	TP8.625x8.625x0.313	3.793	77.119	0.049	0.484	56.361	0.009

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $V_u$ $\phi V_n$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $T_u$ $\phi T_n$
L2	103 - 99.75 (2)	TP8.625x8.625x0.313	4.017	77.119	0.052	0.476	56.361	0.008
L3	99.75 - 98 (3)	TP16.5x8.625x1.049	8.680	499.863	0.017	0.473	162.626	0.003
L4	98 - 93 (4)	TP17.3x16.5x0.188	9.198	178.734	0.051	0.448	267.859	0.002
L5	93 - 88 (5)	TP18.101x17.3x0.188	9.703	187.092	0.052	0.426	293.499	0.001
L6	88 - 83 (6)	TP18.901x18.101x0.188	10.204	195.451	0.052	0.410	320.309	0.001
L7	83 - 82.873 (7)	TP18.921x18.901x0.188	10.217	195.663	0.052	0.407	321.006	0.001
L8	82.873 - 82.623 (8)	TP18.961x18.921x0.363	10.242	375.556	0.027	0.407	611.700	0.001
L9	82.623 - 77.623 (9)	TP19.762x18.961x0.356	11.831	385.087	0.031	0.390	654.423	0.001
L10	77.623 - 76.25 (10)	TP19.981x19.762x0.356	12.006	389.448	0.031	0.386	669.329	0.001
L11	76.25 - 76 (11)	TP20.021x19.981x0.6	12.037	649.103	0.019	0.382	1104.008	0.000
L12	76 - 75.75 (12)	TP20.061x20.021x0.456	12.069	498.259	0.024	0.381	855.467	0.000
L13	75.75 - 74.333 (13)	TP20.288x20.061x0.45	12.258	497.275	0.025	0.380	863.925	0.000
L14	74.333 - 74.083 (14)	TP20.328x20.288x0.588	12.290	646.030	0.019	0.376	1116.850	0.000
L15	74.083 - 69.083 (15)	TP21.128x20.328x0.575	12.957	658.318	0.020	0.362	1184.950	0.000
L16	69.083 - 64.083 (16)	TP21.929x21.128x0.55	13.620	654.980	0.021	0.346	1226.283	0.000
L17	64.083 - 59.083 (17)	TP22.729x21.929x0.538	14.278	664.430	0.021	0.330	1291.267	0.000
L18	59.083 - 58.083 (18)	TP22.889x22.729x0.538	14.410	669.222	0.022	0.327	1309.958	0.000
L19	58.083 - 57.733 (19)	TP22.945x22.889x0.6	14.454	746.823	0.019	0.324	1461.433	0.000
L20	57.733 - 57.5 (20)	TP22.982x22.945x0.6	14.487	748.069	0.019	0.323	1466.317	0.000
L21	57.5 - 52.5 (21)	TP23.783x22.982x0.575	15.154	743.333	0.020	0.310	1510.758	0.000
L22	52.5 - 47 (22)	TP24.663x23.783x0.575	15.449	754.868	0.020	0.304	1558.008	0.000
L23	47 - 45.25 (23)	TP24.568x23.768x0.625	16.163	833.572	0.019	0.291	1747.842	0.000
L24	45.25 - 40.25 (24)	TP25.368x24.568x0.613	16.790	844.629	0.020	0.275	1831.142	0.000
L25	40.25 - 38.083 (25)	TP25.715x25.368x0.613	17.060	856.462	0.020	0.269	1882.808	0.000
L26	38.083 - 37.833 (26)	TP25.755x25.715x0.713	17.084	993.912	0.017	0.265	2179.750	0.000
L27	37.833 - 32.833 (27)	TP26.555x25.755x0.7	17.710	1008.160	0.018	0.253	2282.767	0.000
L28	32.833 - 27.733 (28)	TP27.372x26.555x0.725	18.328	1076.120	0.017	0.239	2511.208	0.000
L29	27.733 - 27.5 (29)	TP27.409x27.372x0.725	18.349	1077.630	0.017	0.237	2518.242	0.000
L30	27.5 - 22.5 (30)	TP28.209x27.409x0.7	18.933	1072.650	0.018	0.226	2584.117	0.000
L31	22.5 - 19.5 (31)	TP28.689x28.209x0.688	19.265	1072.360	0.018	0.220	2629.683	0.000
L32	19.5 - 19.25 (32)	TP28.729x28.689x0.8	19.285	1244.610	0.015	0.218	3044.175	0.000
L33	19.25 - 14.25 (33)	TP29.529x28.729x0.775	19.835	1241.340	0.016	0.203	3125.892	0.000
L34	14.25 - 14 (34)	TP29.569x29.529x0.775	19.854	1243.060	0.016	0.199	3134.592	0.000
L35	14 - 13.75 (35)	TP29.609x29.569x0.775	19.881	1244.790	0.016	0.197	3143.317	0.000
L36	13.75 - 12.983 (36)	TP29.732x29.609x1.075	19.974	1716.030	0.012	0.195	4306.642	0.000
L37	12.983 - 12.817 (37)	TP29.759x29.732x0.95	19.987	1524.510	0.013	0.189	3846.233	0.000
L38	12.817 - 12.65 (38)	TP29.785x29.759x0.85	20.004	1370.040	0.015	0.189	3471.708	0.000

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $V_u$ $\phi V_n$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $T_u$ $\phi T_n$
L39	12.65 - 12.5 (39)	TP29.809x29.785x0.85	20.020	1371.180	0.015	0.188	3477.475	0.000
L40	12.5 - 12.25 (40)	TP29.849x29.809x0.8	20.047	1294.530	0.015	0.187	3293.292	0.000
L41	12.25 - 7.25 (41)	TP30.65x29.849x0.788	20.556	1309.950	0.016	0.158	3425.767	0.000
L42	7.25 - 2.25 (42)	TP31.45x30.65x0.775	21.055	1324.250	0.016	0.120	3557.392	0.000
L43	2.25 - 0 (43)	TP31.81x31.45x0.763	21.278	1318.710	0.016	0.103	3585.558	0.000

### Pole Interaction Design Data

Section No.	Elevation ft	Ratio $P_u$ $\phi P_n$	Ratio $M_{ux}$ $\phi M_{nx}$	Ratio $M_{uy}$ $\phi M_{ny}$	Ratio $V_u$ $\phi V_n$	Ratio $T_u$ $\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	108 - 103 (1)	0.014	0.145	0.000	0.049	0.009	0.162	1.050	4.8.2
L2	103 - 99.75 (2)	0.014	0.368	0.000	0.052	0.008	0.386	1.050	4.8.2
L3	99.75 - 98 (3)	0.004	0.146	0.000	0.017	0.003	0.151	1.050	4.8.2
L4	98 - 93 (4)	0.015	0.280	0.000	0.051	0.002	0.298	1.050	4.8.2
L5	93 - 88 (5)	0.015	0.418	0.000	0.052	0.001	0.436	1.050	4.8.2
L6	88 - 83 (6)	0.015	0.545	0.000	0.052	0.001	0.563	1.050	4.8.2
L7	83 - 82.873 (7)	0.015	0.549	0.000	0.052	0.001	0.566	1.050	4.8.2
L8	82.873 - 82.623 (8)	0.008	0.291	0.000	0.027	0.001	0.300	1.050	4.8.2
L9	82.623 - 77.623 (9)	0.009	0.358	0.000	0.031	0.001	0.368	1.050	4.8.2
L10	77.623 - 76.25 (10)	0.009	0.375	0.000	0.031	0.001	0.385	1.050	4.8.2
L11	76.25 - 76 (11)	0.005	0.233	0.000	0.019	0.000	0.239	1.050	4.8.2
L12	76 - 75.75 (12)	0.007	0.302	0.000	0.024	0.000	0.310	1.050	4.8.2
L13	75.75 - 74.333 (13)	0.007	0.319	0.000	0.025	0.000	0.327	1.050	4.8.2
L14	74.333 - 74.083 (14)	0.005	0.252	0.000	0.019	0.000	0.257	1.050	4.8.2
L15	74.083 - 69.083 (15)	0.006	0.291	0.000	0.020	0.000	0.297	1.050	4.8.2
L16	69.083 - 64.083 (16)	0.006	0.336	0.000	0.021	0.000	0.343	1.050	4.8.2
L17	64.083 - 59.083 (17)	0.006	0.374	0.000	0.021	0.000	0.381	1.050	4.8.2
L18	59.083 - 58.083 (18)	0.007	0.380	0.000	0.022	0.000	0.387	1.050	4.8.2
L19	58.083 - 57.733 (19)	0.006	0.345	0.000	0.019	0.000	0.351	1.050	4.8.2
L20	57.733 - 57.5 (20)	0.006	0.346	0.000	0.019	0.000	0.352	1.050	4.8.2
L21	57.5 - 52.5 (21)	0.006	0.385	0.000	0.020	0.000	0.392	1.050	4.8.2
L22	52.5 - 47 (22)	0.006	0.396	0.000	0.020	0.000	0.403	1.050	4.8.2
L23	47 - 45.25 (23)	0.006	0.400	0.000	0.019	0.000	0.407	1.050	4.8.2
L24	45.25 - 40.25 (24)	0.007	0.427	0.000	0.020	0.000	0.434	1.050	4.8.2
L25	40.25 - 38.083 (25)	0.007	0.435	0.000	0.020	0.000	0.443	1.050	4.8.2
L26	38.083 - 37.833 (26)	0.006	0.380	0.000	0.017	0.000	0.386	1.050	4.8.2
L27	37.833 - 32.833 (27)	0.006	0.401	0.000	0.018	0.000	0.407	1.050	4.8.2
L28	32.833 - 27.733 (28)	0.006	0.402	0.000	0.017	0.000	0.409	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$P_u$	$M_{ux}$	$M_{uy}$	$V_u$	$T_u$			
L29	27.733 - 27.5 (29)	0.006	0.403	0.000	0.017	0.000	0.409	1.050	4.8.2
L30	27.5 - 22.5 (30)	0.007	0.429	0.000	0.018	0.000	0.436	1.050	4.8.2
L31	22.5 - 19.5 (31)	0.007	0.443	0.000	0.018	0.000	0.450	1.050	4.8.2
L32	19.5 - 19.25 (32)	0.006	0.386	0.000	0.015	0.000	0.392	1.050	4.8.2
L33	19.25 - 14.25 (33)	0.006	0.407	0.000	0.016	0.000	0.414	1.050	4.8.2
L34	14.25 - 14 (34)	0.006	0.408	0.000	0.016	0.000	0.414	1.050	4.8.2
L35	14 - 13.75 (35)	0.006	0.408	0.000	0.016	0.000	0.415	1.050	4.8.2
L36	13.75 - 12.983 (36)	0.005	0.305	0.000	0.012	0.000	0.309	1.050	4.8.2
L37	12.983 - 12.817 (37)	0.005	0.341	0.000	0.013	0.000	0.346	1.050	4.8.2
L38	12.817 - 12.65 (38)	0.006	0.377	0.000	0.015	0.000	0.383	1.050	4.8.2
L39	12.65 - 12.5 (39)	0.006	0.377	0.000	0.015	0.000	0.383	1.050	4.8.2
L40	12.5 - 12.25 (40)	0.006	0.399	0.000	0.015	0.000	0.406	1.050	4.8.2
L41	12.25 - 7.25 (41)	0.006	0.414	0.000	0.016	0.000	0.420	1.050	4.8.2
L42	7.25 - 2.25 (42)	0.007	0.428	0.000	0.016	0.000	0.435	1.050	4.8.2
L43	2.25 - 0 (43)	0.007	0.438	0.000	0.016	0.000	0.445	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	108 - 103	Pole	TP8.625x8.625x0.313	1	-3.496	269.918	15.4	Pass
L2	103 - 99.75	Pole	TP8.625x8.625x0.313	2	-3.622	269.918	36.8	Pass
L3	99.75 - 98	Pole	TP16.5x8.625x1.049	3	-3.626	857.855	14.4	Pass
L4	98 - 93	Pole	TP17.3x16.5x0.188	4	-9.046	625.568	28.4	Pass
L5	93 - 88	Pole	TP18.101x17.3x0.188	5	-9.355	654.823	41.5	Pass
L6	88 - 83	Pole	TP18.901x18.101x0.188	6	-9.698	684.078	53.6	Pass
L7	83 - 82.873	Pole	TP18.921x18.901x0.188	7	-9.715	684.822	53.9	Pass
L8	82.873 - 82.623	Pole	TP18.961x18.921x0.363	8	-9.740	1314.442	28.6	Pass
L9	82.623 - 77.623	Pole	TP19.762x18.961x0.356	9	-11.295	1347.801	35.1	Pass
L10	77.623 - 76.25	Pole	TP19.981x19.762x0.356	10	-11.439	1363.068	36.7	Pass
L11	76.25 - 76	Pole	TP20.021x19.981x0.6	11	-11.489	2271.864	22.7	Pass
L12	76 - 75.75	Pole	TP20.061x20.021x0.456	12	-11.527	1743.903	29.5	Pass
L13	75.75 - 74.333	Pole	TP20.288x20.061x0.45	13	-11.740	1740.459	31.2	Pass
L14	74.333 - 74.083	Pole	TP20.328x20.288x0.588	14	-11.788	2261.101	24.5	Pass
L15	74.083 - 69.083	Pole	TP21.128x20.328x0.575	15	-12.614	2304.109	28.3	Pass
L16	69.083 - 64.083	Pole	TP21.929x21.128x0.55	16	-13.465	2292.433	32.7	Pass
L17	64.083 - 59.083	Pole	TP22.729x21.929x0.538	17	-14.337	2325.508	36.3	Pass
L18	59.083 - 58.083	Pole	TP22.889x22.729x0.538	18	-14.515	2342.277	36.8	Pass
L19	58.083 - 57.733	Pole	TP22.945x22.889x0.6	19	-14.592	2613.880	33.5	Pass
L20	57.733 - 57.5	Pole	TP22.982x22.945x0.6	20	-14.641	2618.238	33.6	Pass
L21	57.5 - 52.5	Pole	TP23.783x22.982x0.575	21	-15.667	2601.669	37.4	Pass
L22	52.5 - 47	Pole	TP24.663x23.783x0.575	22	-16.139	2642.041	38.4	Pass
L23	47 - 45.25	Pole	TP24.568x23.768x0.625	23	-17.858	2917.498	38.7	Pass
L24	45.25 - 40.25	Pole	TP25.368x24.568x0.613	24	-19.034	2956.201	41.4	Pass
L25	40.25 - 38.083	Pole	TP25.715x25.368x0.613	25	-19.550	2997.613	42.2	Pass
L26	38.083 - 37.833	Pole	TP25.755x25.715x0.713	26	-19.620	3478.692	36.7	Pass
L27	37.833 - 32.833	Pole	TP26.555x25.755x0.7	27	-20.860	3528.577	38.8	Pass
L28	32.833 - 27.733	Pole	TP27.372x26.555x0.725	28	-22.216	3766.434	38.9	Pass
L29	27.733 - 27.5	Pole	TP27.409x27.372x0.725	29	-22.285	3771.705	39.0	Pass
L30	27.5 - 22.5	Pole	TP28.209x27.409x0.7	30	-23.632	3754.264	41.5	Pass
L31	22.5 - 19.5	Pole	TP28.689x28.209x0.688	31	-24.456	3753.256	42.9	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail	
L32	19.5 - 19.25	Pole	TP28.729x28.689x0.8	32	-24.537	4356.124	37.3	Pass	
L33	19.25 - 14.25	Pole	TP29.529x28.729x0.775	33	-25.997	4344.679	39.4	Pass	
L34	14.25 - 14	Pole	TP29.569x29.529x0.775	34	-26.078	4350.727	39.5	Pass	
L35	14 - 13.75	Pole	TP29.609x29.569x0.775	35	-26.153	4356.775	39.5	Pass	
L36	13.75 - 12.983	Pole	TP29.732x29.609x1.075	36	-26.448	6006.115	29.5	Pass	
L37	12.983 - 12.817	Pole	TP29.759x29.732x0.95	37	-26.512	5335.806	32.9	Pass	
L38	12.817 - 12.65	Pole	TP29.785x29.759x0.85	38	-26.568	4795.140	36.5	Pass	
L39	12.65 - 12.5	Pole	TP29.809x29.785x0.85	39	-26.619	4799.119	36.5	Pass	
L40	12.5 - 12.25	Pole	TP29.849x29.809x0.8	40	-26.699	4530.855	38.6	Pass	
L41	12.25 - 7.25	Pole	TP30.65x29.849x0.788	41	-28.300	4584.835	40.0	Pass	
L42	7.25 - 2.25	Pole	TP31.45x30.65x0.775	42	-29.926	4634.868	41.4	Pass	
L43	2.25 - 0	Pole	TP31.81x31.45x0.763	43	-30.666	4615.495	42.4	Pass	
							Summary		
							Pole (L7)	53.9	Pass
							<b>RATING =</b>	<b>53.9</b>	<b>Pass</b>

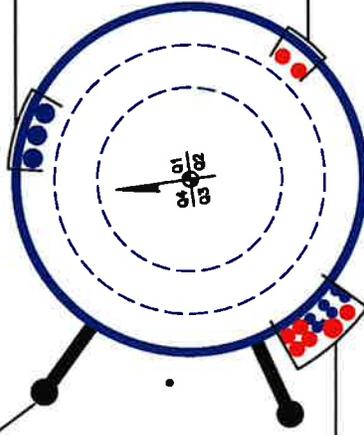
**\*NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

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



CLIMBING PEDS  
W/ SAFETY CLIMB

(OTHER CONSIDERED EQUIPMENT)  
(3) 1-5/8" TO 80 FT LEVEL



(PROPOSED EQUIPMENT CONFIGURATION)  
(5) 1-1/4" TO 105 FT LEVEL  
(1) 1-5/8" TO 105 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)  
(1) 5/8" TO 81 FT LEVEL  
(6) 7/8" TO 81 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION)  
(2) 1-1/4" TO 105 FT LEVEL

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

## Unique Pole Section

*TIA Rev. H*

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**Description:**

*This sheet is for the analysis of a unique monopole shaft section.*

**Assumptions / Notes:**

- 1. The plastification of the pole is not considered.*

## 1. PARAMETERS

**Flange Elevation: 98'- 0"**

### 1.1 tnxTower Reactions

Moment:

$$M := 29.66 \cdot \text{kip} \cdot \text{ft}$$

Axial Load:

$$P := 8.77 \cdot \text{kip}$$

Shear Load:

$$V := 8.68 \cdot \text{kip}$$

Apply TIA-222-H Section 15.5?

Yes ▾

### 1.2 Shaft Properties at the Flange

Shaft Diameter:

$$D_{\text{shaft1}} := 16.5 \cdot \text{in}$$

Shaft Thickness:

$$t_{\text{shaft}} := 0.5 \cdot \text{in}$$

Stiffener Thickness:

$$t_{\text{stiffener}} := 16.5 \cdot \text{in}$$

Stiffener Width:

$$W_{\text{stiffener}} := 3.7109 \cdot \text{in}$$

Section Grade:

$$F_y := 36 \cdot \text{ksi}$$

$$F_u := 58 \cdot \text{ksi}$$

### 1.3 Existing Section Properties

Gross Area of one Plate Group:

$$A_{g\_section} := 11.5434 \text{ in}^2$$

Moment of Inertia of Section

$$I_{\text{section}} := 1558.4541 \text{ in}^4$$

Radius of Gyration about x-axis:

$$r_{x2} := 6.7084 \text{ in}$$

Distance from neutral axis to most extreme fiber:

$$c_x := 12 \text{ in}$$

Distance from Group Centroid to individual plate group centroid:

$$BC_{\text{exist}} := 9.3171 \cdot \text{in}$$

Number of Plate Groups:

$$N_{\text{exist}} := 3$$

### 1.4 Maximum Axial Forces in Single Existing Extension Leg

Outer Radius of Centroid:

$$C := \frac{BC_{\text{exist}}}{2} = 4.66 \text{ in}$$

Critical Compression Bending Stress:

$$P_{\text{comp}} := \frac{M \cdot C}{I_{\text{section}}} \cdot A_{g\_section} + \frac{P}{N_{\text{exist}}} = 15.2 \text{ kip}$$

Critical Tension Bending Stress:

$$P_{\text{tens}} := \frac{M \cdot C}{I_{\text{section}}} \cdot A_{g\_section} - \frac{P}{N_{\text{exist}}} = 9.36 \text{ kip}$$

## 2. Existing Section Checks

### 2.1 Available Compression Strength

[AISC 15th Edition E3-1]

Resistance Factor:  $\phi_c := 0.9$

Unbraced Length:  $L_u := 21 \cdot \text{in}$

Effective Length Factor:  $K := 1.0$

Effective Length of Member:  $L_c := K \cdot L_u = 21 \text{ in}$

[AISC 15th Edition E3-2]

Strength of Extension Plates:  $F_Y = 36 \text{ ksi}$   $F_u = 58 \text{ ksi}$

Elastic Buckling Stress:  
 [AISC 15th Ed., Eq. E3-4]

$$F_e := \frac{\pi^2 \cdot 29000 \cdot \text{ksi}}{\left(\frac{L_c}{r_{x2}}\right)^2} = 29207.68 \text{ ksi}$$

Determination of Critical Stress:  
 [AISC 15th Ed., Eqs. E3-2 and E3-3]

$$F_{cr} := \begin{cases} \text{if } 4.71 \cdot \sqrt{\frac{E}{F_Y}} \geq \frac{L_c}{r_{x2}} \\ \left(0.658 \frac{F_Y}{F_e} \cdot F_Y\right) \\ \text{else} \\ \left(0.877 \cdot F_e\right) \end{cases}$$

$$F_{cr} = 35.98 \text{ ksi}$$

Allowable Compressive Strength:  
 [AISC 15th Ed., Eqs. J4-6 and E3-1]

$$\phi P_n := \begin{cases} \text{if } \frac{L_c}{r_{x2}} \leq 25 \\ \left(\phi_c \cdot F_{cr} \cdot A_{g\_section}\right) \\ \text{else} \\ \left(\phi_c \cdot F_{cr} \cdot A_{g\_section}\right) \end{cases}$$

$$\phi P_n = 373.81 \text{ kip}$$

Check Compressive Strength:

$$Capacity_{comp} := \begin{cases} \text{if } S15Allowable = \text{"No"} \\ \frac{P}{\phi P_n} \\ \text{if } S15Allowable = \text{"Yes"} \\ \frac{P}{\phi P_n} \cdot \left(\frac{1}{1.05}\right) \end{cases} = 2.23\%$$

$$Capacity_{comp} = 2.23\%$$

## 2.2 Available Tension Strength

### Gross Section Yield

[AISC 15th Edition Ch. D2]

Available Tension Yield Strength:  $\phi P_{ty} := 0.9 \cdot F_y \cdot A_{g\_section} = 374.01 \text{ kip}$

### Net Section Fracture

Effective Net Area:  $A_e := A_{g\_section} = 11.54 \text{ in}^2$

Available Fractile Strength:  $\phi P_{tr} := 0.75 \cdot F_u \cdot A_e = 502.14 \text{ kip}$

### Tension Check

Controlling Mode of Failure:

$$Check_{mode} := \left\| \begin{array}{l} \text{if } \frac{P}{\phi P_{tr}} > \frac{P}{\phi P_{ty}} \\ \quad \left\| \begin{array}{l} \text{"Fracture Controls"} \\ \text{else} \\ \text{"Yield Controls"} \end{array} \right\| \end{array} \right\|$$

$$Check_{mode} = \text{"Yield Controls"}$$

$$\phi P_{nt} := \left\| \begin{array}{l} \text{if } Check_{mode} = \text{"Fracture Controls"} \\ \quad \left\| \begin{array}{l} \phi P_{tr} \\ \text{else} \\ \phi P_{ty} \end{array} \right\| \end{array} \right\|$$

Controlling Tension Mode Check:

$$Capacity_{tension} := \left\| \begin{array}{l} \text{if } S15Allowable = \text{"No"} \\ \quad \left\| \begin{array}{l} \frac{P}{\phi P_{nt}} \\ \text{if } S15Allowable = \text{"Yes"} \\ \quad \left\| \begin{array}{l} \frac{P}{\phi P_{nt}} \cdot \left( \frac{1}{1.05} \right) \end{array} \right\| \end{array} \right\| = 2.23\% \end{array} \right\|$$

$$Capacity_{tension} = 2.23\%$$

### 2.3 Available Flexure Strength

Shear in one plate group:

$$V_{one\_group} := \frac{V}{3} = 2.89 \text{ kip}$$

Flexure in one plate group:

$$M_{shear} := V_{one\_group} \cdot L_u = 60.76 \text{ kip} \cdot \text{in}$$

Elastic Section Modulus in X direction:

$$S_x := 131.39 \cdot \text{in}^3$$

Elastic Section Modulus in Y direction:

$$S_y := 129.87 \cdot \text{in}^3$$

Minimum Elastic Section Modulus :

$$S_{min} := \min(S_x, S_y) = 129.87 \text{ in}^3$$

Allowable Flexural Strength:

$$\phi M_n := 0.9 (F_y \cdot S_{min}) = 4207.79 \text{ kip} \cdot \text{in} \quad [\text{AISC 15th Edition Ch. F12-1}]$$

Check Flexural Strength:

$$Capacity_{flexure} := \left\| \begin{array}{l} \text{if } S15Allowable = \text{"No"} \\ \left\| \frac{M_{shear}}{\phi M_n} \right\| \\ \text{if } S15Allowable = \text{"Yes"} \\ \left\| \frac{P}{\phi P_{nt}} \cdot \left( \frac{1}{1.05} \right) \right\| \end{array} \right\| = 2.23\%$$

$$Capacity_{flexure} = 2.23\%$$

### 2.4 Combined Checks

Required Axial Strength:

$$P_r := P_{comp} = 15.2 \text{ kip}$$

Available Axial Strength:

$$P_c := \phi P_n = 373.81 \text{ kip}$$

Combined Capacity:

$$Combined := \left\| \begin{array}{l} \text{if } \frac{P_r}{P_c} \geq 0.2 \\ \left\| \frac{P_r}{P_c} + \frac{8}{9} \cdot \frac{M_{shear}}{\phi M_n} \right\| \\ \text{else} \\ \left\| \frac{P_r}{2 P_c} + \frac{M_{shear}}{\phi M_n} \right\| \end{array} \right\| = 3.48\%$$

Check Combined Capacity:

$$Capacity_{Combined} := \begin{cases} \text{if } S15Allowable = \text{"No"} \\ \quad \left| \left| \left| \frac{P_{comp}}{\phi P_n} + \frac{M_{shear}}{\phi M_n} + \left( \frac{V_{one\_group}}{V} \right)^2 \right| \right| \\ \text{if } S15Allowable = \text{"Yes"} \\ \quad \left| \left| \left[ \frac{P_{comp}}{\phi P_n} + \frac{M_{shear}}{\phi M_n} + \left( \frac{V_{one\_group}}{V} \right)^2 \right] \cdot \left( \frac{1}{1.05} \right) \right| \right| \end{cases} = 3.31\%$$

$$Capacity_{Combined} = 3.31\%$$

Combined Flexure, Compression,  
 Shear:

$$Capacity_{Combined2} := \begin{cases} \text{if } S15Allowable = \text{"No"} \\ \quad \left| \left| \left| \frac{P_{comp}}{\phi P_n} + \frac{M_{shear}}{\phi M_n} + \left( \frac{V_{one\_group}}{V} \right)^2 \right| \right| \\ \text{if } S15Allowable = \text{"Yes"} \\ \quad \left| \left| \left[ \frac{P_{comp}}{\phi P_n} + \frac{M_{shear}}{\phi M_n} + \left( \frac{V_{one\_group}}{V} \right)^2 \right] \cdot \left( \frac{1}{1.05} \right) \right| \right| \end{cases} = [15.83\%]$$

$$Capacity_{Combined2} = [15.83\%]$$

Combined Flexure, Tension, Shear:

$$Capacity_{Combined3} := \begin{cases} \text{if } S15Allowable = \text{"No"} \\ \quad \left| \left| \left| \frac{P_{tens}}{\phi P_{nt}} + \frac{M_{shear}}{\phi M_n} + \left( \frac{V_{one\_group}}{V} \right)^2 \right| \right| \\ \text{if } S15Allowable = \text{"Yes"} \\ \quad \left| \left| \left[ \frac{P_{tens}}{\phi P_{nt}} + \frac{M_{shear}}{\phi M_n} + \left( \frac{V_{one\_group}}{V} \right)^2 \right] \cdot \left( \frac{1}{1.05} \right) \right| \right| \end{cases} = [14.34\%]$$

$$Capacity_{Combined3} = [14.34\%]$$

## SUMMARY

Controlling Capacity of Existing  
 Extension:

$$Capacity_{exist} = 15.8\%$$

**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	108	8.25	0	0	8.625	8.625	0.3125		A53-B-35
2	99.75	1.75	0	18	8.63	16.5	1.0486	Auto	A36
3	98	51	3.25	18	16.50	24.663	0.1875	Auto	A607-65
4	50.25	50.25	0	18	23.77	31.81	0.25	Auto	A607-65

**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	13	14	15	16	17	18
1	0	27.75	plate	TRI B1 5.25 x 1.25 - 18	2			E1					E1										
2	0	13	plate	TRI B1A 5.25 x 1.25 - 18	2												E1					E1	
3	12.75	27.75	plate	TRI B1B 5.25 x 1.25 - 18	1																E1		
4	27.75	57.75	plate	TRI B2 4.375 x 1.25 - 21	3			E1					E1								E1		
5	57.75	76.25	plate	TRI B3 4 x 1.25 - 21	3			E1					E1								E1		
6	0	13.083	channel	MP3-05 (1.1875in)	1				E2														
7	0	38.083	channel	MP3-05 (1.1875in)	2												E2						E2
8	12.917	38.083	channel	MP3-05 (1.1875in)	1						E2												
9	38.083	58.083	channel	MP3-05 (1.1875in)	2						E2												E2
10	58.083	82.873	channel	MP3-03 (1.1875in)	2						E2												E2
11	0	14	plate	CCI-SFP-045100	1									E3									
12	12.5	19.5	plate	CCI-SFP-045100	1	E3																	
13	38.083	74.333	channel	MP3-03 (1.1875in)	1												E2						
14	76	82.873	channel	MP3-03 (1.1875in)	1												E2						
15																							

**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	5.25	1.25	6.5625	0.625	Welded	n/a	PC 8.8 - M20 (100)	24.000	18.000	4.959	1.2200	A572-65
2	5.25	1.25	6.5625	0.625	Welded	n/a	PC 8.8 - M20 (100)	30.000	18.000	4.959	1.2200	A572-65
3	5.25	1.25	6.5625	0.625	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	24.000	18.000	4.959	1.2200	A572-65
4	4.375	1.25	5.46875	0.625	None	n/a	PC 8.8 - M20 (100)	21.000	21.000	3.866	1.2200	A572-65
5	4	1.25	5	0.625	None	n/a	PC 8.8 - M20 (100)	21.000	21.000	3.397	1.2200	A572-65
6	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
7	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
8	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
9	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
10	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
11	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
12	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
13	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65
14	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	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)
TRI B1 5.25 x 1.25 - 18	Top	8	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	CJP Groove	5.25	1.25	45	0.25	-	-	-
TRI B1A 5.25 x 1.25 - 18	Top	10	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	CJP Groove	5.25	1.25	45	0.25	-	-	-
TRI B1B 5.25 x 1.25 - 18	Top	8	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	10	N	3	3	-	-	-	-	-	-	-	-	-
TRI B2 4.375 x 1.25 - 21	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-
TRI B3 4 x 1.25 - 21	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	-	-	-

# 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	108 - 103	5		0	8.625	8.625	0.3125	A53-B-35	1.000
2	103 - 99.75	3.25	0	0	8.625	8.625	0.3125	A53-B-35	1.000
3	99.75 - 98	1.75	0	18	8.625	16.500	1.0486	A36	1.000
4	98 - 93	5		18	16.500	17.300	0.1875	A607-65	1.000
5	93 - 88	5		18	17.300	18.101	0.1875	A607-65	1.000
6	88 - 83	5		18	18.101	18.901	0.1875	A607-65	1.000
7	83 - 82.873	0.127		18	18.901	18.921	0.1875	A607-65	1.000
8	82.873 - 82.623	0.25		18	18.921	18.961	0.3625	A607-65	0.931
9	82.623 - 77.623	5		18	18.961	19.762	0.35625	A607-65	0.930
10	77.623 - 76.25	1.373		18	19.762	19.981	0.35625	A607-65	0.926
11	76.25 - 76	0.25		18	19.981	20.021	0.6	A607-65	0.962
12	76 - 75.75	0.25		18	20.021	20.061	0.45625	A607-65	1.151
13	75.75 - 74.333	1.417		18	20.061	20.288	0.45	A607-65	1.158
14	74.333 - 74.083	0.25		18	20.288	20.328	0.5875	A607-65	0.971
15	74.083 - 69.083	5		18	20.328	21.128	0.575	A607-65	0.966
16	69.083 - 64.083	5		18	21.128	21.929	0.55	A607-65	0.983
17	64.083 - 59.083	5		18	21.929	22.729	0.5375	A607-65	0.982
18	59.083 - 58.083	1		18	22.729	22.889	0.5375	A607-65	0.977
19	58.083 - 57.733	0.35		18	22.889	22.945	0.6	A607-65	1.038
20	57.733 - 57.5	0.233		18	22.945	22.982	0.6	A607-65	1.037
21	57.5 - 52.5	5		18	22.982	23.783	0.575	A607-65	1.055
22	52.5 - 50.25	5.5	3.25	18	23.783	24.663	0.575	A607-65	1.044
23	50.25 - 45.25	5		18	23.768	24.568	0.625	A607-65	1.051
24	45.25 - 40.25	5		18	24.568	25.368	0.6125	A607-65	1.051
25	40.25 - 38.083	2.167		18	25.368	25.715	0.6125	A607-65	1.042
26	38.083 - 37.833	0.25		18	25.715	25.755	0.7125	A607-65	0.946
27	37.833 - 32.833	5		18	25.755	26.555	0.7	A607-65	0.944
28	32.833 - 27.733	5.1		18	26.555	27.372	0.725	A607-65	0.948
29	27.733 - 27.5	0.233		18	27.372	27.409	0.725	A607-65	0.948
30	27.5 - 22.5	5		18	27.409	28.209	0.7	A607-65	0.962
31	22.5 - 19.5	3		18	28.209	28.689	0.6875	A607-65	0.969
32	19.5 - 19.25	0.25		18	28.689	28.729	0.8	A607-65	0.899
33	19.25 - 14.25	5		18	28.729	29.529	0.775	A607-65	0.910
34	14.25 - 14	0.25		18	29.529	29.569	0.775	A607-65	0.909
35	14 - 13.75	0.25		18	29.569	29.609	0.775	A607-65	0.908
36	13.75 - 12.983	0.767		18	29.609	29.732	1.075	A607-65	0.898
37	12.983 - 12.817	0.166		18	29.732	29.759	0.95	A607-65	0.946
38	12.817 - 12.65	0.167		18	29.759	29.785	0.85	A607-65	0.969
39	12.65 - 12.5	0.15		18	29.785	29.809	0.85	A607-65	0.968
40	12.5 - 12.25	0.25		18	29.809	29.849	0.8	A607-65	0.965
41	12.25 - 7.25	5		18	29.849	30.650	0.7875	A607-65	0.962
42	7.25 - 2.25	5		18	30.650	31.450	0.775	A607-65	0.960
43	2.25 - 0	2.25		18	31.450	31.810	0.7625	A607-65	0.968

## 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	108 - 103		3.50	8.21	3.79
2	103 - 99.75		3.62	20.89	4.02
3	99.75 - 98		8.77	29.66	8.68
4	98 - 93		9.05	74.32	9.20
5	93 - 88		9.36	121.53	9.70
6	88 - 83		9.70	171.24	10.20
7	83 - 82.873		9.72	172.54	10.22
8	82.873 - 82.623		9.74	175.09	10.24
9	82.623 - 77.623		11.30	230.75	11.83
10	77.623 - 76.25		11.44	247.09	12.01
11	76.25 - 76		11.49	250.10	12.04
12	76 - 75.75		11.53	253.11	12.07
13	75.75 - 74.333		11.74	270.33	12.26
14	74.333 - 74.083		11.79	273.39	12.29
15	74.083 - 69.083		12.61	336.45	12.96
16	69.083 - 64.083		13.47	402.84	13.62
17	64.083 - 59.083		14.34	472.52	14.28
18	59.083 - 58.083		14.52	486.85	14.41
19	58.083 - 57.733		14.59	491.90	14.45
20	57.733 - 57.5		14.64	495.27	14.49
21	57.5 - 52.5		15.67	569.31	15.15
22	52.5 - 50.25		16.14	603.71	15.45
23	50.25 - 45.25		17.86	682.71	16.16
24	45.25 - 40.25		19.03	765.00	16.79
25	40.25 - 38.083		19.55	801.64	17.06
26	38.083 - 37.833		19.62	805.91	17.08
27	37.833 - 32.833		20.86	892.83	17.71
28	32.833 - 27.733		22.22	984.64	18.33
29	27.733 - 27.5		22.29	988.91	18.35
30	27.5 - 22.5		23.63	1082.05	18.93
31	22.5 - 19.5		24.46	1139.30	19.27
32	19.5 - 19.25		24.54	1144.12	19.28
33	19.25 - 14.25		26.00	1241.85	19.83
34	14.25 - 14		26.08	1246.81	19.85
35	14 - 13.75		26.15	1251.77	19.88
36	13.75 - 12.983		26.45	1267.05	19.97
37	12.983 - 12.817		26.51	1270.37	19.99
38	12.817 - 12.65		26.57	1273.70	20.00
39	12.65 - 12.5		26.62	1276.71	20.02
40	12.5 - 12.25		26.70	1281.71	20.05
41	12.25 - 7.25		28.30	1383.17	20.56
42	7.25 - 2.25		29.93	1487.12	21.06
43	2.25 - 0		30.67	1534.72	21.28

## Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
108 - 103	Pole	TP8.625x8.625x0.3125	Pole	15.3%	Pass
103 - 99.75	Pole	TP8.625x8.625x0.3125	Pole	36.7%	Pass
99.75 - 98	Pole	TP16.5x8.625x1.0486	Pole	5.0%	Pass
98 - 93	Pole	TP17.3x16.5x0.1875	Pole	28.4%	Pass
93 - 88	Pole	TP18.101x17.3x0.1875	Pole	41.5%	Pass
88 - 83	Pole	TP18.901x18.101x0.1875	Pole	53.6%	Pass
83 - 82.87	Pole	TP18.921x18.901x0.1875	Pole	53.9%	Pass
82.87 - 82.62	Pole + Reinf.	TP18.961x18.921x0.3625	Reinf. 14 Tension Rupture	43.8%	Pass
82.62 - 77.62	Pole + Reinf.	TP19.762x18.961x0.3563	Reinf. 14 Tension Rupture	54.1%	Pass
77.62 - 76.25	Pole + Reinf.	TP19.981x19.762x0.3563	Reinf. 14 Tension Rupture	56.9%	Pass
76.25 - 76	Pole + Reinf.	TP20.021x19.981x0.6	Reinf. 5 Tension Rupture	40.4%	Pass
76 - 75.75	Pole + Reinf.	TP20.061x20.021x0.4563	Reinf. 5 Tension Rupture	46.9%	Pass
75.75 - 74.33	Pole + Reinf.	TP20.288x20.061x0.45	Reinf. 5 Tension Rupture	49.3%	Pass
74.33 - 74.08	Pole + Reinf.	TP20.328x20.288x0.5875	Reinf. 5 Tension Rupture	43.2%	Pass
74.08 - 69.08	Pole + Reinf.	TP21.128x20.328x0.575	Reinf. 5 Tension Rupture	50.5%	Pass
69.08 - 64.08	Pole + Reinf.	TP21.929x21.128x0.55	Reinf. 5 Tension Rupture	57.6%	Pass
64.08 - 59.08	Pole + Reinf.	TP22.729x21.929x0.5375	Reinf. 5 Tension Rupture	64.3%	Pass
59.08 - 58.08	Pole + Reinf.	TP22.889x22.729x0.5375	Reinf. 5 Tension Rupture	65.7%	Pass
58.08 - 57.73	Pole + Reinf.	TP22.945x22.889x0.6	Reinf. 4 Bolt-Shaft Bearing	60.7%	Pass
57.73 - 57.5	Pole + Reinf.	TP22.982x22.945x0.6	Reinf. 13 Tension Rupture	56.6%	Pass
57.5 - 52.5	Pole + Reinf.	TP23.783x22.982x0.575	Reinf. 13 Tension Rupture	62.2%	Pass
52.5 - 50.25	Pole + Reinf.	TP24.663x23.783x0.575	Reinf. 13 Tension Rupture	64.6%	Pass
50.25 - 45.25	Pole + Reinf.	TP24.568x23.768x0.625	Reinf. 13 Tension Rupture	63.4%	Pass
45.25 - 40.25	Pole + Reinf.	TP25.368x24.568x0.6125	Reinf. 13 Tension Rupture	67.9%	Pass
40.25 - 38.08	Pole + Reinf.	TP25.715x25.368x0.6125	Reinf. 13 Tension Rupture	69.7%	Pass
38.08 - 37.83	Pole + Reinf.	TP25.755x25.715x0.7125	Reinf. 4 Tension Rupture	63.5%	Pass
37.83 - 32.83	Pole + Reinf.	TP26.555x25.755x0.7	Reinf. 4 Tension Rupture	67.5%	Pass
32.83 - 27.73	Pole + Reinf.	TP27.372x26.555x0.725	Reinf. 1 Tension Rupture	63.1%	Pass
27.73 - 27.5	Pole + Reinf.	TP27.409x27.372x0.725	Reinf. 1 Tension Rupture	63.3%	Pass
27.5 - 22.5	Pole + Reinf.	TP28.209x27.409x0.7	Reinf. 1 Tension Rupture	66.7%	Pass
22.5 - 19.5	Pole + Reinf.	TP28.689x28.209x0.6875	Reinf. 1 Tension Rupture	68.6%	Pass
19.5 - 19.25	Pole + Reinf.	TP28.729x28.689x0.8	Reinf. 3 Tension Rupture	64.0%	Pass
19.25 - 14.25	Pole + Reinf.	TP29.529x28.729x0.775	Reinf. 3 Tension Rupture	67.0%	Pass
14.25 - 14	Pole + Reinf.	TP29.569x29.529x0.775	Reinf. 3 Tension Rupture	67.1%	Pass
14 - 13.75	Pole + Reinf.	TP29.609x29.569x0.775	Reinf. 3 Tension Rupture	67.3%	Pass
13.75 - 12.98	Pole + Reinf.	TP29.732x29.609x1.075	Reinf. 11 Tension Rupture	54.1%	Pass
12.98 - 12.82	Pole + Reinf.	TP29.759x29.732x0.95	Reinf. 1 Tension Rupture	60.3%	Pass
12.82 - 12.65	Pole + Reinf.	TP29.785x29.759x0.85	Reinf. 1 Tension Rupture	63.3%	Pass
12.65 - 12.5	Pole + Reinf.	TP29.809x29.785x0.85	Reinf. 1 Tension Rupture	63.4%	Pass
12.5 - 12.25	Pole + Reinf.	TP29.849x29.809x0.8	Reinf. 1 Tension Rupture	64.4%	Pass
12.25 - 7.25	Pole + Reinf.	TP30.65x29.849x0.7875	Reinf. 1 Tension Rupture	67.1%	Pass
7.25 - 2.25	Pole + Reinf.	TP31.45x30.65x0.775	Reinf. 1 Tension Rupture	69.7%	Pass
2.25 - 0	Pole + Reinf.	TP31.81x31.45x0.7625	Reinf. 1 Tension Rupture	70.9%	Pass
				Summary	
			Pole	53.9%	Pass
			Reinforcement	70.9%	Pass
			Overall	70.9%	Pass

# Additional Calculations

Section Elevation (ft)	Moment of Inertia (in <sup>4</sup> )			Area (in <sup>2</sup> )			% Capacity* (100% Max. Allowable)																
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14		
108 - 103	71	n/a	71	8.16	n/a	8.16	15.3%																
103 - 99.75	71	n/a	71	8.16	n/a	8.16	36.7%																
99.75 - 98	1553	n/a	1553	51.42	n/a	51.42	5.0%																
98 - 93	377	n/a	377	10.18	n/a	10.18	28.4%																
93 - 88	432	n/a	432	10.66	n/a	10.66	41.5%																
88 - 83	493	n/a	493	11.14	n/a	11.14	53.0%																
83 - 82.87	494	n/a	494	11.15	n/a	11.15	53.8%																
82.87 - 82.62	497	447	944	11.17	8.76	19.93	28.3%										43.8%					43.8%	
82.62 - 77.62	564	483	1047	11.65	8.76	20.41	38.4%										54.1%					54.1%	
77.62 - 76.25	583	493	1076	11.78	8.76	20.54	37.3%										56.8%					56.8%	
76.25 - 76	589	1179	1768	11.80	23.76	35.56	24.4%					40.4%					33.1%					36.1%	
76 - 75.75	615	790	1405	11.83	20.84	32.67	33.7%					46.9%					34.5%						
75.75 - 74.33	636	807	1443	11.86	20.84	32.80	35.5%					49.3%					36.2%						
74.33 - 74.08	617	1213	1829	11.89	23.76	35.75	28.2%					43.2%					35.5%					38.7%	
74.08 - 69.08	693	1304	1996	12.46	23.76	36.22	30.0%					50.5%					41.4%					45.1%	
69.08 - 64.08	775	1397	2173	12.94	23.76	36.70	35.6%					57.6%					47.2%					51.3%	
64.08 - 59.08	864	1518	2382	13.41	23.76	37.17	38.8%					64.3%					52.7%					57.3%	
59.08 - 58.08	883	1538	2421	13.51	23.76	37.27	40.8%					65.7%					53.8%					58.5%	
58.08 - 57.73	907	1781	2688	13.54	30.63	44.17	38.3%				60.7%						41.7%					56.4%	
57.73 - 57.5	911	1787	2698	13.57	30.63	44.19	38.6%				54.2%						41.9%					56.6%	
57.5 - 52.5	1010	1905	2915	14.04	30.63	44.67	44.0%				59.0%						46.1%					62.2%	
52.5 - 50.25	1057	1960	3016	14.26	30.63	44.88	45.8%				62.0%						47.9%					64.6%	
50.25 - 45.25	1468	2030	3498	19.30	30.63	49.92	41.7%				62.1%						48.4%					63.4%	
45.25 - 40.25	1616	2157	3773	19.93	30.63	50.56	45.0%				66.6%						51.9%					67.9%	
40.25 - 38.08	1684	2213	3897	20.21	30.63	50.83	48.4%				68.3%						53.4%					68.7%	
38.08 - 37.83	1667	2831	4497	20.24	33.36	53.59	38.4%				63.5%						56.2%					67.1%	
37.83 - 32.83	1828	2998	4826	20.87	33.36	54.23	41.2%				67.5%						59.7%					68.1%	
32.83 - 27.73	2005	3458	5462	21.52	36.64	58.16	41.9%	63.1%			59.2%						60.1%					48.4%	
27.73 - 27.5	2013	3466	5480	21.55	36.64	58.19	42.0%	63.3%			59.4%						60.2%					48.5%	
27.5 - 22.5	2196	3660	5856	22.18	36.64	58.82	44.6%	66.7%			62.5%						63.3%					52.2%	
22.5 - 19.5	2311	3778	6089	22.57	36.64	59.20	46.2%	68.0%			64.4%						65.1%					53.8%	
19.5 - 19.25	2320	4614	6934	22.60	41.14	63.73	40.8%	63.0%			64.0%						63.0%					54.3%	
19.25 - 14.25	2521	4861	7381	23.23	41.14	64.37	43.1%	66.5%			67.0%						65.9%					56.8%	
14.25 - 14	2531	4873	7404	23.26	41.14	64.40	43.2%	66.7%			67.1%						66.0%					56.9%	
14 - 13.75	2541	4886	7427	23.30	41.14	64.43	43.3%	66.8%			67.3%						66.2%					57.1%	
13.75 - 12.98	2596	7666	10262	23.39	64.41	87.81	32.7%	51.3%	49.5%	46.3%			41.9%	45.2%	43.3%						54.1%	47.6%	
12.98 - 12.82	2658	6640	9298	23.41	58.76	82.18	38.4%	60.3%	50.9%	50.3%			49.2%	45.2%								58.8%	47.3%
12.82 - 12.65	2600	5672	8271	23.44	52.20	75.64	40.9%	63.3%	61.4%				52.8%	50.5%								60.7%	48.1%
12.65 - 12.5	2606	5680	8287	23.45	52.20	75.65	40.9%	63.4%	61.4%				52.9%	50.6%								60.8%	48.2%
12.5 - 12.25	2601	5315	7916	23.49	47.70	71.19	41.6%	64.4%	62.0%				54.5%	51.3%								62.7%	
12.25 - 7.25	2818	5589	8407	24.12	47.70	71.82	43.7%	67.1%	64.0%				56.8%	53.5%								65.4%	
7.25 - 2.25	3046	5870	8916	24.76	47.70	72.46	45.9%	69.7%	67.1%				59.0%	55.7%								68.0%	
2.25 - 0	3153	5999	9152	25.04	47.70	72.74	46.8%	70.9%	68.3%				60.0%	56.0%								69.2%	

Note: Section capacity checked using 3 degree increments  
 \*Rating per TIA-222-J1 Section 15.5.

# Monopole Flange Plate Connection

Elevation = 98 ft.



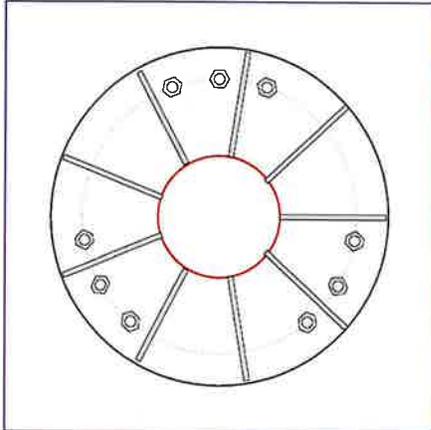
BU #	876363
Site Name	RTFORD - NU (SSUSA)
Order #	651131 Rev 2

Applied Loads	
Moment (kip-ft)	29.66
Axial Force (kips)	8.77
Shear Force (kips)	8.68

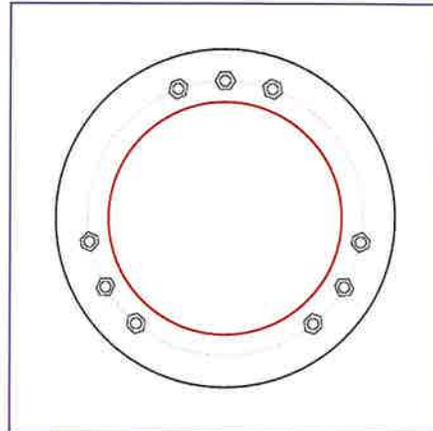
TIA-222 Revision	H
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\*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



### Connection Properties

#### Bolt Data

(9) 3/4"  $\phi$  bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 19.5" BC

#### Top Plate Data

24" OD x 1" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

#### Bottom Plate Data

24" OD x 1" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

#### Top Stiffener Data

(9) 9"H x 7.5"W x 0.375"T, Notch: 0.5"  
 plate: Fy= 36 ksi ; weld: Fy= 60 ksi  
 horiz. weld: 0.1875" groove, 45° dbl bevel, 0.25" fillet  
 vert. weld: 0.25" fillet

#### Bottom Stiffener Data

N/A

#### Top Pole Data

8.625" x 0.3125" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)

#### Bottom Pole Data

16.5" x 0.1875" 18-sided pole (A607-65; Fy=65 ksi, Fu=80 ksi)

### Analysis Results

#### Bolt Capacity

Max Load (kips)	7.13
Allowable (kips)	30.02
Stress Rating:	<b>22.6%</b> Pass

#### Top Plate Capacity

Max Stress (ksi):	9.07	(Roark's Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	<b>19.2%</b>	Pass
Tension Side Stress Rating:	N/A	

#### Bottom Plate Capacity

Max Stress (ksi):	11.28	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	<b>23.9%</b>	Pass
Tension Side Stress Rating:	<b>10.6%</b>	Pass

#### Top Stiffener Capacity

Horizontal Weld:	<b>10.8%</b>	Pass
Vertical Weld:	<b>17.0%</b>	Pass
Plate Flexure+Shear:	<b>12.1%</b>	Pass
Plate Tension+Shear:	<b>11.2%</b>	Pass
Plate Compression:	<b>32.1%</b>	Pass

#### Bottom Stiffener Capacity

Horizontal Weld:	N/A
Vertical Weld:	N/A
Plate Flexure+Shear:	N/A
Plate Tension+Shear:	N/A
Plate Compression:	N/A

#### Top Pole Capacity

Punching Shear:	<b>9.7%</b>	Pass
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#### Bottom Pole Capacity

Punching Shear:	N/A
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# CCIplate

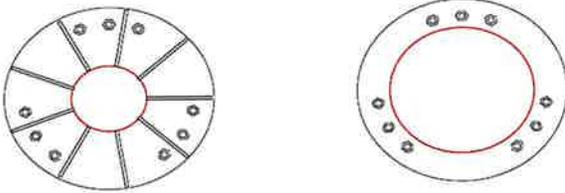
Elevation (ft) 99 (Flange)

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes

Custom Bolt Connection										
Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Ela Factor, n <sub>b</sub>	L <sub>c</sub> (in)	Thread Type	Area Override, in <sup>2</sup>	Tension Only
1	1	70	0.75	A325	19.5	0.5	0	N-Included		No
2	1	90	0.75	A325	19.5	0.5	0	N-Included		No
3	1	110	0.75	A325	19.5	0.5	0	N-Included		No
4	1	130	0.75	A325	19.5	0.5	0	N-Included		No
5	1	150	0.75	A325	19.5	0.5	0	N-Included		No
6	1	170	0.75	A325	19.5	0.5	0	N-Included		No
7	1	190	0.75	A325	19.5	0.5	0	N-Included		No
8	1	210	0.75	A325	19.5	0.5	0	N-Included		No
9	1	230	0.75	A325	19.5	0.5	0	N-Included		No
10	1	250	0.75	A325	19.5	0.5	0	N-Included		No
11	1	270	0.75	A325	19.5	0.5	0	N-Included		No
12	1	290	0.75	A325	19.5	0.5	0	N-Included		No
13	1	310	0.75	A325	19.5	0.5	0	N-Included		No
14	1	330	0.75	A325	19.5	0.5	0	N-Included		No
15	1	350	0.75	A325	19.5	0.5	0	N-Included		No

Custom Stiffener Connection - Top Plate														
Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	0	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
2	1	40	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
3	1	80	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
4	1	120	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
5	1	160	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
6	1	200	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
7	1	240	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
8	1	280	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60
9	1	320	7.5	9	0.375	0.5	0.5	36	Both	0.1875	45	0.25	0.25	60

## Plot Graphic



# Monopole Base Plate Connection

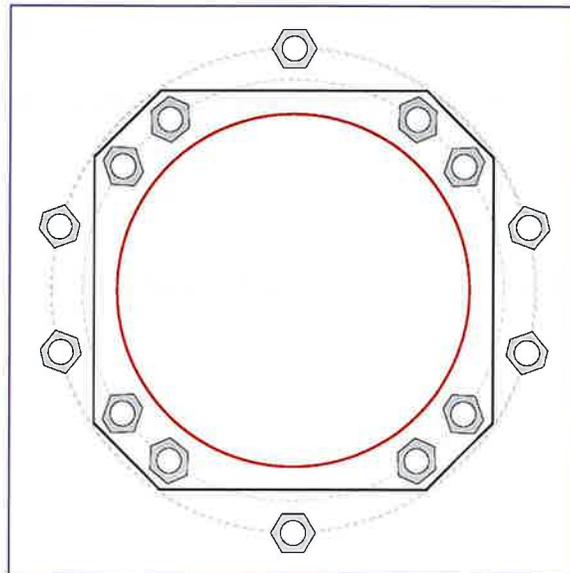


Site Info	
BU #	876363
Site Name	RTFORD - NU (SSUSA)
Order #	651131 Rev 2

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

Applied Loads	
Moment (kip-ft)	1534.72
Axial Force (kips)	30.67
Shear Force (kips)	21.28

\*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; Fy=75 ksi, Fu=100 ksi) on 38" BC  
*Anchor Spacing: 6 in*

GROUP 2: (3) 2-1/4"  $\phi$  bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 43.8" BC

GROUP 3: (3) 2-1/4"  $\phi$  bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 43.5" BC

**Base Plate Data**

36" W x 2.5" Plate (A572-55; Fy=55 ksi, Fu=70 ksi); Clip: 6 in

**Stiffener Data**

N/A

**Pole Data**

31.81" x 0.25" 18-sided pole (A607-65; Fy=65 ksi, Fu=80 ksi)

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

GROUP	$P_{u,t}$	$V_u$	$M_u$	$\phi P_{n,t}$	$\phi V_n$	$\phi M_n$	Stress Rating
GROUP 1:	125.73	2.66	n/a	243.75	149.1	n/a	49.1% Pass
GROUP 2:	159.51	0	n/a	243.75	149.1	n/a	62.3% Pass
GROUP 3:	158.49	0	n/a	304.69	186.38	n/a	49.5% Pass

**Base Plate Summary**

Max Stress (ksi):	23.73	(Flexural)
Allowable Stress (ksi):	49.5	
Stress Rating:	45.7%	Pass

# CCIplate

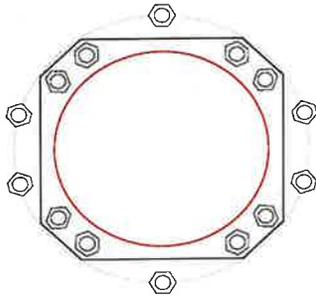
Elevation (ft) 0 (Base)

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	
3	No	No	No	No	No	

Custom Bolt Connection										
Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, $\eta$	$l_w$ (in)	Thread Type	Area Override, in <sup>2</sup>	Tension Only
1	1	35.91528	2.25	A615-75	38	0.5	0	N-Included		No
2	1	54.08472	2.25	A615-75	38	0.5	0	N-Included		No
3	1	125.91528	2.25	A615-75	38	0.5	0	N-Included		No
4	1	144.08472	2.25	A615-75	38	0.5	0	N-Included		No
5	1	215.91528	2.25	A615-75	38	0.5	0	N-Included		No
6	1	234.08472	2.25	A615-75	38	0.5	0	N-Included		No
7	1	305.91528	2.25	A615-75	38	0.5	0	N-Included		No
8	1	324.08472	2.25	A615-75	38	0.5	0	N-Included		No
9	2	15	2.25	A615-75	43.8	0.5	0	N-Included		No
10	2	165	2.25	A615-75	43.8	0.5	0	N-Included		No
11	2	270	2.25	A615-75	43.8	0.5	0	N-Included		No
12	3	90	2.25	A193 Gr. B7	43.5	0.5	0	N-Included		No
13	3	195	2.25	A193 Gr. B7	43.5	0.5	0	N-Included		No
14	3	345	2.25	A193 Gr. B7	43.5	0.5	0	N-Included		No

## Plot Graphic



## Pier and Pad Foundation



BU # : 876363  
 Site Name: HARTFORD - NU ( )  
 App. Number: 651131 Rev 2

TIA-222 Revision: H  
 Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, $P_{comp}$ :	30.68	kips
Base Shear, $V_u_{comp}$ :	21.26	kips
Moment, $M_u$ :	1534.72	ft-kips
Tower Height, $H$ :	108	ft
BP Dist. Above Fdn, $bp_{dist}$ :	3	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	183.18	21.26	11.1%	Pass
<i>Bearing Pressure (ksf)</i>	5.18	1.82	33.5%	Pass
<i>Overturning (kip*ft)</i>	3747.39	1699.49	45.4%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	2026.69	1630.39	76.6%	Pass
<i>Pier Compression (kip)</i>	11934.00	50.93	0.4%	Pass
<i>Pad Flexure (kip*ft)</i>	2323.42	620.28	25.4%	Pass
<i>Pad Shear - 1-way (kips)</i>	646.50	102.83	15.1%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.027	15.5%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	2993.58	978.23	31.1%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$ :	5	ft
Ext. Above Grade, $E$ :	0.5	ft
Pier Rebar Size, $Sc$ :	11	
Pier Rebar Quantity, $mc$ :	12	
Pier Tie/Spiral Size, $St$ :	5	
Pier Tie/Spiral Quantity, $mt$ :	12	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, $cc_{pier}$ :	4	in

\*Rating per TIA-222-H Section 15.5

Structural Rating*:	76.6%
Soil Rating*:	45.4%

Pad Properties		
Depth, $D$ :	7	ft
Pad Width, $W_p$ :	21.5	ft
Pad Thickness, $T$ :	3	ft
Pad Rebar Size (Bottom dir. 2), $Sp_2$ :	8	
Pad Rebar Quantity (Bottom dir. 2), $mp_2$ :	22	
Pad Clear Cover, $cc_{pad}$ :	4	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, $\gamma$ :	100	pcf
Ultimate Gross Bearing, $Q_{ult}$ :	6,900	ksf
Cohesion, $C_u$ :	0.000	ksf
Friction Angle, $\phi$ :	30	degrees
SPT Blow Count, $N_{blows}$ :		
Base Friction, $\mu$ :	0.35	
Neglected Depth, $N$ :	3.30	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, $gw$ :	10	ft

<-- Toggle between Gross and Net

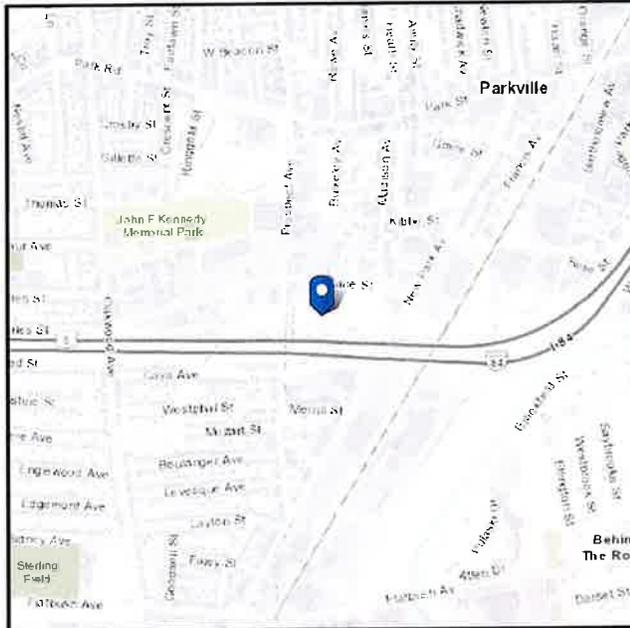


# ASCE 7 Hazards Report

**Address:**  
No Address at This Location

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

**Latitude:** 41.750775  
**Longitude:** -72.713675  
**Elevation:** 67.55893527868375 ft (NAVD 88)



## Wind

### Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 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: Tue Jun 13 2023

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).

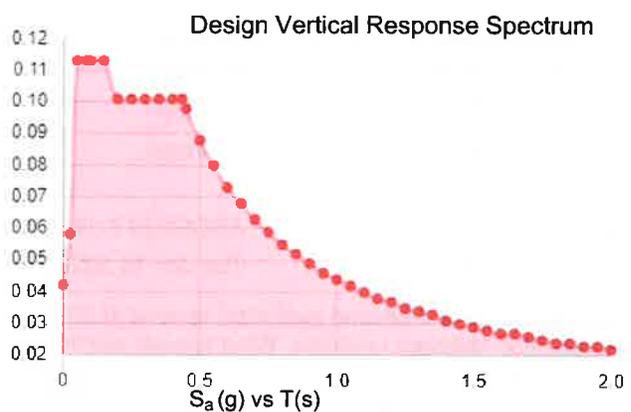
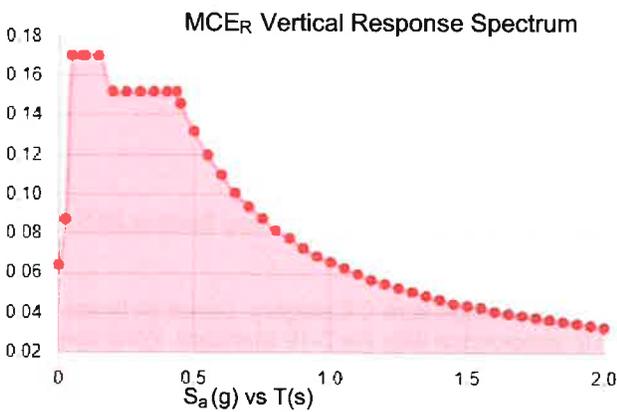
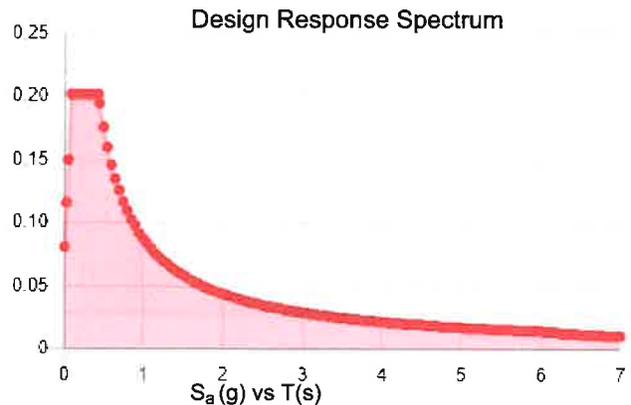
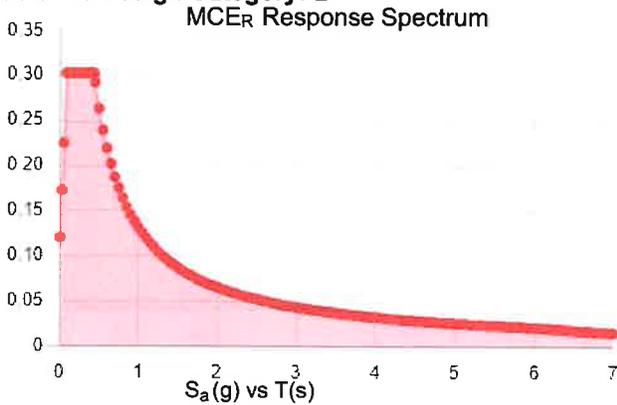
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

**Site Soil Class:**

**Results:**

$S_S$ :	0.189	$S_{D1}$ :	0.088
$S_1$ :	0.055	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.102
$F_v$ :	2.4	PGA <sub>M</sub> :	0.163
$S_{MS}$ :	0.303	$F_{PGA}$ :	1.596
$S_{M1}$ :	0.132	$I_e$ :	1
$S_{DS}$ :	0.202	$C_v$ :	0.7

**Seismic Design Category: B**



**Data Accessed:** Tue Jun 13 2023

**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: 1.50 in.  
Concurrent Temperature: 15 F  
Gust Speed 50 mph

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

**Date Accessed:** Tue Jun 13 2023

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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The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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

## Antenna Mount Analysis Report and PMI Requirements

### Mount ReAnalysis

SMART Tool Project #: 10203395  
 Colliers Engineering & Design CT, P.C. Project #: 23777022

June 28, 2023

#### Site Information

Site ID: 5000393349-VZW / WEST HARTFORD 4 CT  
 Site Name: WEST HARTFORD 4 CT  
 Carrier Name: Verizon Wireless  
 Address: 219 New Park Ave  
 Hartford, Connecticut 06106  
 Hartford County  
 Latitude: 41.750775°  
 Longitude: -72.713675°

#### Structure Information

Tower Type: Monopole  
 Mount Type: 10.50-Ft Sector Frame

FUZE ID # 17082763

#### Analysis Results

Sector Frame: 86.0% Pass\*

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

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

Included at the end of this MA report  
 Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Gianna Argentina



**Executive Summary:**

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

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

**Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 334045, dated April 10, 2023
Previous PMI Report	Colliers Engineering & Design, Project #: 21777456 dated January 20, 2023
Photos	Dated October 27, 2022

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 117 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.997
Seismic Parameters:	$S_s$ : 0.189 g $S_1$ : 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, $L_v$ : 250 lbs. Maintenance Load, $L_m$ : 500 lbs.
Analysis Software:	RISA-3D (V17)

**Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
105.00	105.00	1	Samsung	MT6407-77A	Retained
		6	Commscope	SBNHH-1D65B	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Samsung	B2/B66A RRH-BR049	
		2	Raycap	RRFDC-3315-PF-48	
		2	Samsung	MT6413-77A	Added

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mounts.

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

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

**Standard Conditions:**

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT, P.C. 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 Colliers Engineering & Design CT, P.C..**

**Analysis Results:**

Component	Utilization %	Pass/Fail
Face Horizontal	56.3 %	Pass
Standoff Plate	42.4 %	Pass
Standoff Horizontal	86.0 %	Pass
Standoff Diagonal	12.4 %	Pass
Antenna Pipe	33.2 %	Pass
Standoff Vertical	4.4 %	Pass
Mast Pipe	27.0 %	Pass
Tieback	9.8 %	Pass
OVP Pipe	10.0 %	Pass
Mount Connection	51.6 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>86.0%</b>
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**Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	23.0	23.0	38.9	38.9
0.5	38.5	38.5	61.2	61.2
1	50.8	50.8	80.2	80.2

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sectors.
- Ka factors included in (EPA)a calculations

**Requirements:**

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

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

**Attachments:**

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

## Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

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MDG #: 5000393349

SMART Project #: 10203395

Fuze Project ID: 17082763

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

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

#### **Base Requirements:**

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

#### **Photo Requirements:**

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

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

**Antenna & equipment placement and Geometry Confirmation:**

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

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

OR

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

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

**Issue:**

**Response:**

**Special Instruction Confirmation:**

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

OR

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

**Comments:**

--

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

Yes       No

**Contractor certifies no new damage created during the current installation:**

Yes       No

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

Safety Climb in Good Condition       Safety Climb Damaged

**Certifying Individual:**

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

Structure: 5000393349-VZW - WEST HARTFORD 4 CT

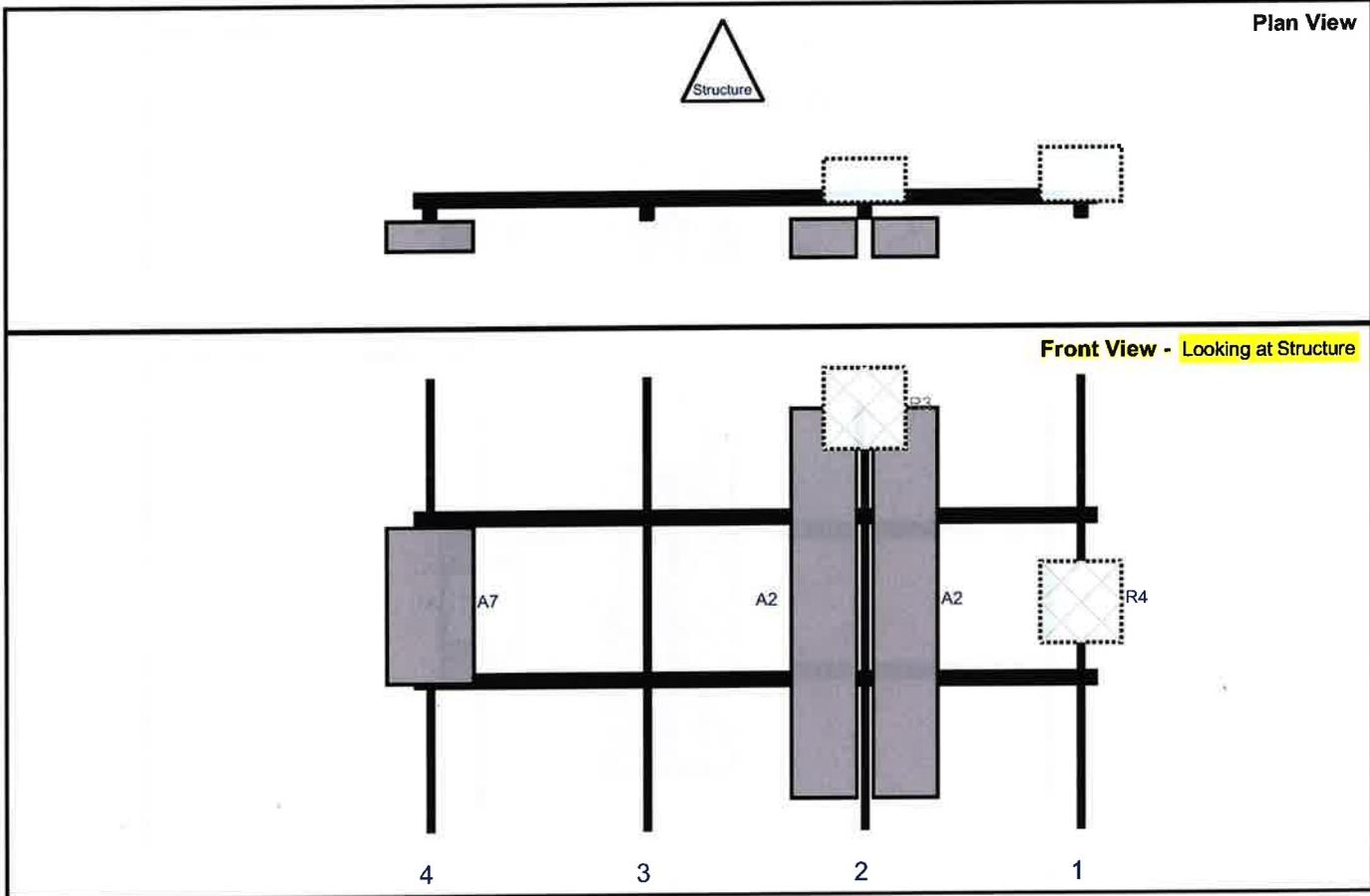
Sector: A  
 Structure Type: Monopole  
 Mount Elev: 105.00

10203395

6/1/2023



Page: 1



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	B2/B66A RRH-BR049	15	15	123	1	a	Behind	42	0	Retained	10/27/2022
A2	SBNHH-1D65B	72	11.9	83	2	a	Front	42	7.5	Retained	10/27/2022
A2	SBNHH-1D65B	72	11.9	83	2	b	Front	42	-7.5	Retained	10/27/2022
R3	B5/B13 RRH-BR04C	15	15	83	2	a	Behind	6	0	Retained	10/27/2022
A7	MT6413-77A	28.9	15.8	3	4	a	Front	42	0	Added	
OVP1	RRFDC-3315-PF-48	19.1	15.7			Member				Retained	10/27/2022
OVP3	RRFDC-3315-PF-48	19.1	15.7			Member				Retained	10/27/2022

Structure: 5000393349-VZW - WEST HARTFORD 4 CT

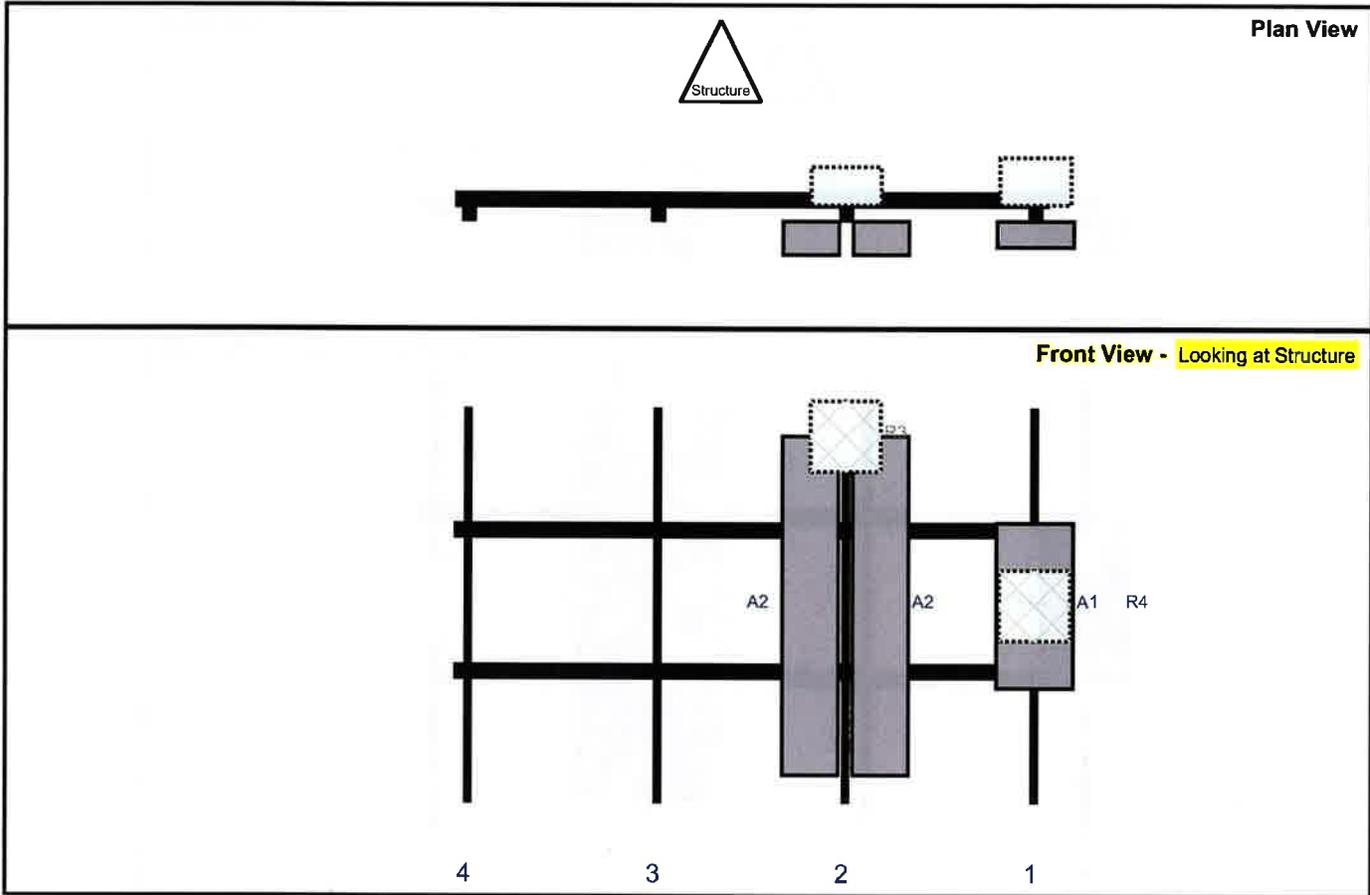
Sector: **B**  
 Structure Type: Monopole  
 Mount Elev: 105.00

10203395

6/1/2023



Page: 2



Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MT6407-77A	35.1	16.1	123	1	a	Front	42	0	Retained	10/27/2022
R4	B2/B66A RRH-BR049	15	15	123	1	a	Behind	42	0	Retained	10/27/2022
A2	SBNHH-1D65B	72	11.9	83	2	a	Front	42	7.5	Retained	10/27/2022
A2	SBNHH-1D65B	72	11.9	83	2	b	Front	42	-7.5	Retained	10/27/2022
R3	B5/B13 RRH-BR04C	15	15	83	2	a	Behind	6	0	Retained	10/27/2022

Structure: 5000393349-VZW - WEST HARTFORD 4 CT

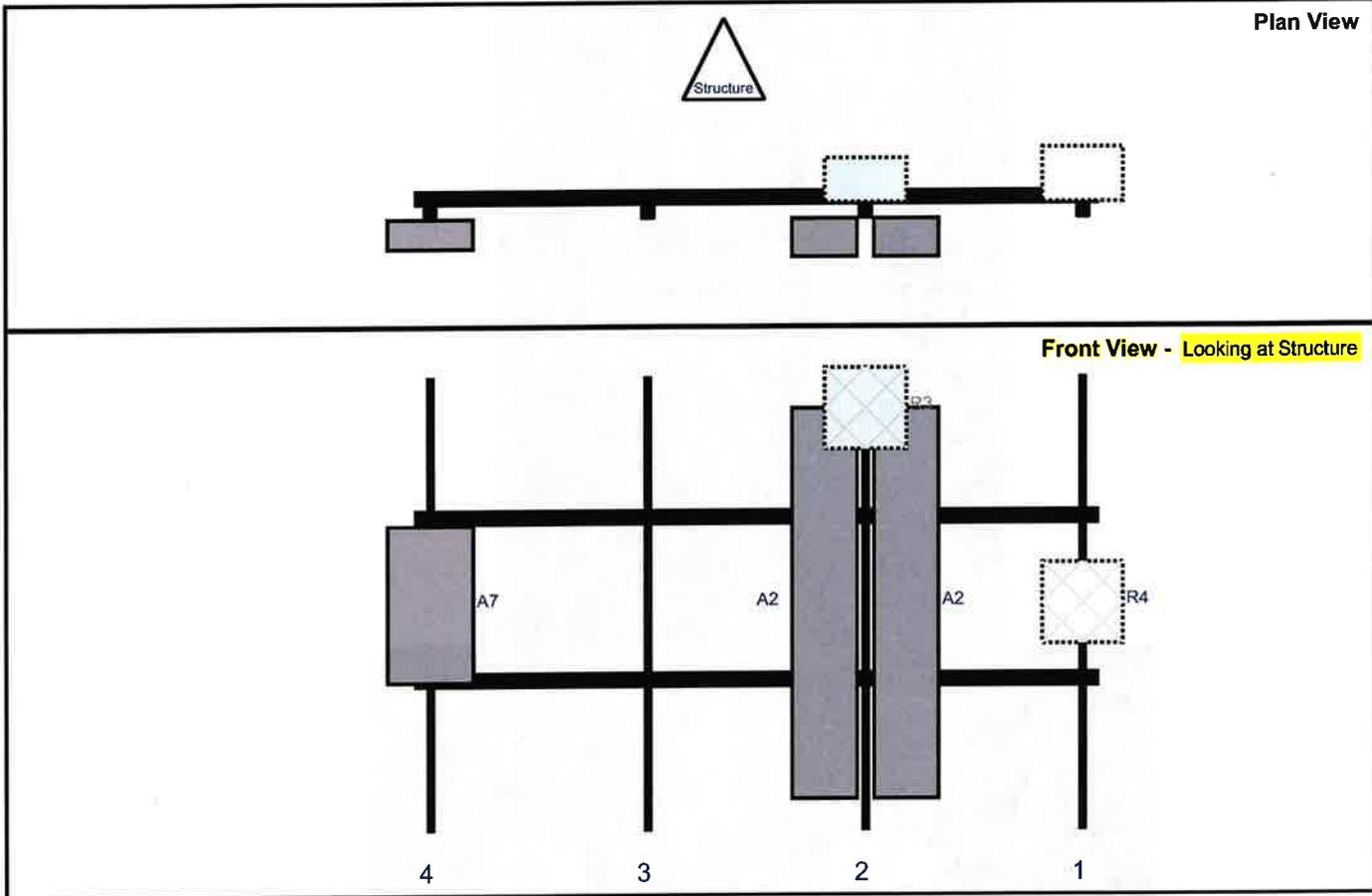
Sector: C  
 Structure Type: Monopole  
 Mount Elev: 105.00

10203395

6/1/2023

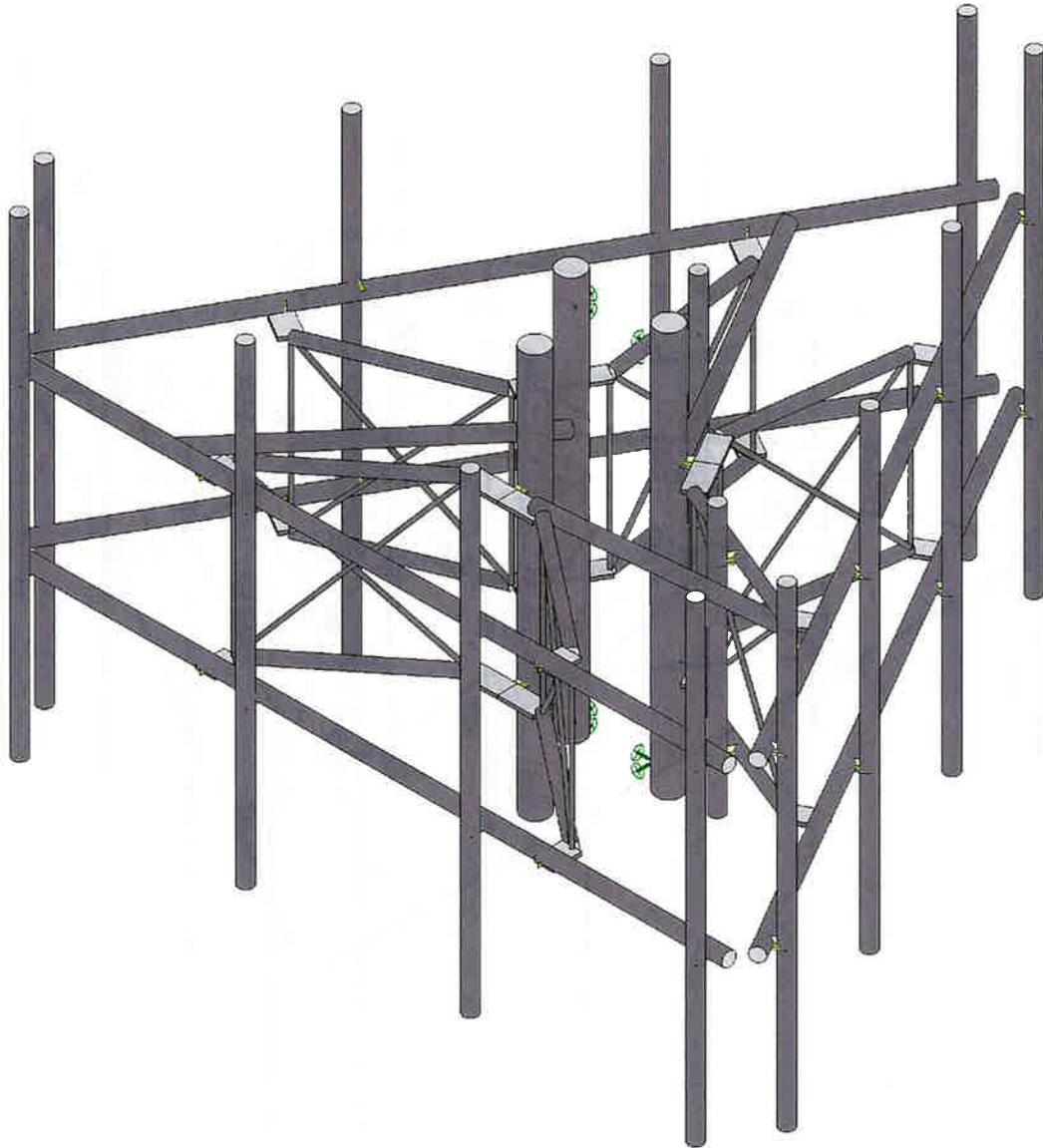
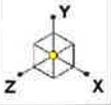


Page: 3



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
R4	B2/B66A RRH-BR049	15	15	123	1	a	Behind	42	0	Retained	10/27/2022
A2	SBNHH-1D65B	72	11.9	83	2	a	Front	42	7.5	Retained	10/27/2022
A2	SBNHH-1D65B	72	11.9	83	2	b	Front	42	-7.5	Retained	10/27/2022
R3	B5/B13 RRH-BR04C	15	15	83	2	a	Behind	6	0	Retained	10/27/2022
A7	MT6413-77A	28.9	15.8	3	4	a	Front	42	0	Added	





Envelope Only Solution


SK - 1

June 1, 2023 at 3:40 PM

5000393349-VZW\_MT\_LO\_H.r3d







Company :  
 Designer :  
 Job Number :  
 Model Name :

June 1, 2023  
 3:40 PM  
 Checked By: \_\_\_\_\_

**Basic Load Cases**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(P...
1 Antenna D	None					78	
2 Antenna Di	None					78	
3 Antenna Wo (0 Deg)	None					78	
4 Antenna Wo (30 Deg)	None					78	
5 Antenna Wo (60 Deg)	None					78	
6 Antenna Wo (90 Deg)	None					78	
7 Antenna Wo (120 Deg)	None					78	
8 Antenna Wo (150 Deg)	None					78	
9 Antenna Wo (180 Deg)	None					78	
10 Antenna Wo (210 Deg)	None					78	
11 Antenna Wo (240 Deg)	None					78	
12 Antenna Wo (270 Deg)	None					78	
13 Antenna Wo (300 Deg)	None					78	
14 Antenna Wo (330 Deg)	None					78	
15 Antenna Wi (0 Deg)	None					78	
16 Antenna Wi (30 Deg)	None					78	
17 Antenna Wi (60 Deg)	None					78	
18 Antenna Wi (90 Deg)	None					78	
19 Antenna Wi (120 Deg)	None					78	
20 Antenna Wi (150 Deg)	None					78	
21 Antenna Wi (180 Deg)	None					78	
22 Antenna Wi (210 Deg)	None					78	
23 Antenna Wi (240 Deg)	None					78	
24 Antenna Wi (270 Deg)	None					78	
25 Antenna Wi (300 Deg)	None					78	
26 Antenna Wi (330 Deg)	None					78	
27 Antenna Wm (0 Deg)	None					78	
28 Antenna Wm (30 Deg)	None					78	
29 Antenna Wm (60 Deg)	None					78	
30 Antenna Wm (90 Deg)	None					78	
31 Antenna Wm (120 De..	None					78	
32 Antenna Wm (150 De..	None					78	
33 Antenna Wm (180 De..	None					78	
34 Antenna Wm (210 De..	None					78	
35 Antenna Wm (240 De..	None					78	
36 Antenna Wm (270 De..	None					78	
37 Antenna Wm (300 De..	None					78	
38 Antenna Wm (330 De..	None					78	
39 Structure D	None		-1				
40 Structure Di	None						86
41 Structure Wo (0 Deg)	None						172
42 Structure Wo (30 Deg)	None						172
43 Structure Wo (60 Deg)	None						172
44 Structure Wo (90 Deg)	None						172
45 Structure Wo (120 D..	None						172
46 Structure Wo (150 D..	None						172
47 Structure Wo (180 D..	None						172
48 Structure Wo (210 D..	None						172



Company :  
 Designer :  
 Job Number :  
 Model Name :

June 1, 2023  
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**Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
49	Structure Wo (240 D...	None						172	
50	Structure Wo (270 D...	None						172	
51	Structure Wo (300 D...	None						172	
52	Structure Wo (330 D...	None						172	
53	Structure Wi (0 Deg)	None						172	
54	Structure Wi (30 Deg)	None						172	
55	Structure Wi (60 Deg)	None						172	
56	Structure Wi (90 Deg)	None						172	
57	Structure Wi (120 De...	None						172	
58	Structure Wi (150 De...	None						172	
59	Structure Wi (180 De...	None						172	
60	Structure Wi (210 De...	None						172	
61	Structure Wi (240 De...	None						172	
62	Structure Wi (270 De...	None						172	
63	Structure Wi (300 De...	None						172	
64	Structure Wi (330 De...	None						172	
65	Structure Wm (0 Deg)	None						172	
66	Structure Wm (30 D...	None						172	
67	Structure Wm (60 D...	None						172	
68	Structure Wm (90 D...	None						172	
69	Structure Wm (120 ...	None						172	
70	Structure Wm (150 ...	None						172	
71	Structure Wm (180 ...	None						172	
72	Structure Wm (210 ...	None						172	
73	Structure Wm (240 ...	None						172	
74	Structure Wm (270 ...	None						172	
75	Structure Wm (300 ...	None						172	
76	Structure Wm (330 ...	None						172	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					78		
82	Antenna Eh (0 Deg)	None					52		
83	Antenna Eh (90 Deg)	None					52		
84	Structure Ev	ELY		-.04					
85	Structure Eh (0 Deg)	ELZ			-.101				
86	Structure Eh (90 Deg)	ELX	.101						

**Load Combinations**

	Description	Solve P...	SR	BLC Fact...									
1	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	3	1	41	1		
2	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	4	1	42	1		
3	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	5	1	43	1		
4	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	6	1	44	1		
5	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	7	1	45	1		
6	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	8	1	46	1		
7	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	9	1	47	1		
8	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	10	1	48	1		
9	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	11	1	49	1		



Company :  
 Designer :  
 Job Number :  
 Model Name :

June 1, 2023  
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**Load Combinations (Continued)**

	Description	Solve	P...	SR...	BLC Fact...															
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5										
51	1.4D	Yes	Y		1	1.4	39	1.4												
52	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5
54	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866
55	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866
57	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5
58	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
60	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
61	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1



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**Load Combinations (Continued)**

	Description	SolveP...	SR...	BLC Fact...															
62	1.2D + 1.0...	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866
63	1.2D + 1.0...	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5
64	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5
66	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866
67	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866
69	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5
70	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
72	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	2.416667	0.145833	8.083333	0	
2	N2	-8.083333	0.145833	8.083333	0	
3	N3	2.416667	2.645833	8.083333	0	
4	N4	-8.083333	2.645833	8.083333	0	
5	N5	-7.833333	0.145833	8.083333	0	
6	N6	-7.833333	2.645833	8.083333	0	
7	N7	-4.5	0.145833	8.083333	0	
8	N8	-4.5	2.645833	8.083333	0	
9	N9	-1.166667	0.145833	8.083333	0	
10	N10	-1.166667	2.645833	8.083333	0	
11	N11	2.166667	0.145833	8.083333	0	
12	N12	2.166667	2.645833	8.083333	0	
13	N13	-7.833333	0.145833	8.333333	0	
14	N14	-7.833333	2.645833	8.333333	0	
15	N15	-4.5	0.145833	8.333333	0	
16	N16	-4.5	2.645833	8.333333	0	
17	N17	-1.166667	0.145833	8.333333	0	
18	N18	-1.166667	2.645833	8.333333	0	
19	N19	2.166667	0.145833	8.333333	0	
20	N20	2.166667	2.645833	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	2.5	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	2.5	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	2.5	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	2.5	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	2.5	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	2.5	6.119792	0	
33	N33	-2.302083	0	6.119792	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
34	N34	-2.302083	2.5	6.119792	0	
35	N35	-2.833333	0	5.703125	0	
36	N36	-2.833333	2.5	5.703125	0	
37	N39	-7.833333	4.8125	8.333333	0	
38	N40	-4.5	4.8125	8.333333	0	
39	N41	-1.166667	4.8125	8.333333	0	
40	N42	2.166667	4.8125	8.333333	0	
41	N43	-7.833333	-2.1875	8.333333	0	
42	N44	-4.5	-2.1875	8.333333	0	
43	N45	-1.166667	-2.1875	8.333333	0	
44	N46	2.166667	-2.1875	8.333333	0	
45	N58	-5.333333	2.5	7.708333	0	
46	N76	-2.927083	0	6.119792	0	
47	N77	-3.229167	0	6.119792	0	
48	N78	-2.739583	0	6.119792	0	
49	N79	-2.4375	0	6.119792	0	
50	N80	-2.927083	2.5	6.119792	0	
51	N81	-3.229167	2.5	6.119792	0	
52	N82	-2.739583	2.5	6.119792	0	
53	N83	-2.4375	2.5	6.119792	0	
54	N58A	-2.833333	2.645833	8.083333	0	
55	N59	-5.333333	0.145833	8.083333	0	
56	N60	-5.333333	2.645833	8.083333	0	
57	N61	-0.333333	0.145833	8.083333	0	
58	N62	-0.333333	2.645833	8.083333	0	
59	N59A	-5.833333	2.645833	8.083333	0	
60	N60A	0.166667	2.645833	8.083333	0	
61	N61A	-2.833333	4.25	5.703125	0	
62	N62A	-2.833333	-1.75	5.703125	0	
63	N63	-2.833333	3.916667	5.703125	0	
64	N64	-2.833333	-1.416667	5.703125	0	
65	N65	-2.833333	3.916667	5.536458	0	
66	N66	-2.833333	-1.416667	5.536458	0	
67	N67	-2.833333	2.5	4.869792	0	
68	N68	-2.675325	0.145833	-1.283613	0	
69	N69	2.574675	0.145833	7.809654	0	
70	N70	-2.675325	2.645833	-1.283613	0	
71	N71	2.574675	2.645833	7.809654	0	
72	N72	2.449675	0.145833	7.593148	0	
73	N73	2.449675	2.645833	7.593148	0	
74	N74	0.783009	0.145833	4.706397	0	
75	N75	0.783009	2.645833	4.706397	0	
76	N76A	-0.883658	0.145833	1.819645	0	
77	N77A	-0.883658	2.645833	1.819645	0	
78	N78A	-2.550325	0.145833	-1.067106	0	
79	N79A	-2.550325	2.645833	-1.067106	0	
80	N80A	2.666182	0.145833	7.468148	0	
81	N81A	2.666182	2.645833	7.468148	0	
82	N82A	0.999515	0.145833	4.581397	0	
83	N83A	0.999515	2.645833	4.581397	0	
84	N84	-0.667152	0.145833	1.694645	0	
85	N85	-0.667152	2.645833	1.694645	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
86	N86	-2.333818	0.145833	-1.192106	0	
87	N87	-2.333818	2.645833	-1.192106	0	
88	N88	1.199675	0	5.428084	0	
89	N89	1.199675	2.5	5.428084	0	
90	N90	-1.300325	0	1.097957	0	
91	N91	-1.300325	2.5	1.097957	0	
92	N92	0.834321	0	5.639022	0	
93	N93	0.834321	2.5	5.639022	0	
94	N94	-1.665679	0	1.308895	0	
95	N95	-1.665679	2.5	1.308895	0	
96	N96	-1.750802	0	4.244792	0	
97	N97	-1.750802	2.5	4.244792	0	
98	N98	-1.485177	0	4.704868	0	
99	N99	-1.485177	2.5	4.704868	0	
100	N100	-2.016427	0	3.784716	0	
101	N101	-2.016427	2.5	3.784716	0	
102	N102	-2.111645	0	4.453125	0	
103	N103	-2.111645	2.5	4.453125	0	
104	N104	2.666182	4.8125	7.468148	0	
105	N105	0.999515	4.8125	4.581397	0	
106	N106	-0.667152	4.8125	1.694645	0	
107	N107	-2.333818	4.8125	-1.192106	0	
108	N108	2.666182	-2.1875	7.468148	0	
109	N109	0.999515	-2.1875	4.581397	0	
110	N110	-0.667152	-2.1875	1.694645	0	
111	N111	-2.333818	-2.1875	-1.192106	0	
112	N112	0.874916	2.5	5.615584	0	
113	N113	-1.703927	0	4.325982	0	
114	N114	-1.552885	0	4.587593	0	
115	N115	-1.797677	0	4.163602	0	
116	N116	-1.948718	0	3.90199	0	
117	N117	-1.703927	2.5	4.325982	0	
118	N118	-1.552885	2.5	4.587593	0	
119	N119	-1.797677	2.5	4.163602	0	
120	N120	-1.948718	2.5	3.90199	0	
121	N121	-0.050325	2.645833	3.263021	0	
122	N122	1.199675	0.145833	5.428084	0	
123	N123	1.199675	2.645833	5.428084	0	
124	N124	-1.300325	0.145833	1.097957	0	
125	N125	-1.300325	2.645833	1.097957	0	
126	N126	1.449675	2.645833	5.861097	0	
127	N127	-1.550325	2.645833	0.664945	0	
128	N128	-2.111645	4.25	4.453125	0	
129	N129	-2.111645	-1.75	4.453125	0	
130	N130	-2.111645	3.916667	4.453125	0	
131	N131	-2.111645	-1.416667	4.453125	0	
132	N132	-2.255983	3.916667	4.536458	0	
133	N133	-2.255983	-1.416667	4.536458	0	
134	N135	-8.241342	0.145833	7.809654	0	
135	N136	-2.991342	0.145833	-1.283613	0	
136	N137	-8.241342	2.645833	7.809654	0	
137	N138	-2.991342	2.645833	-1.283613	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
138	N139	-3.116342	0.145833	-1.067106	0	
139	N140	-3.116342	2.645833	-1.067106	0	
140	N141	-4.783009	0.145833	1.819645	0	
141	N142	-4.783009	2.645833	1.819645	0	
142	N143	-6.449675	0.145833	4.706397	0	
143	N144	-6.449675	2.645833	4.706397	0	
144	N145	-8.116342	0.145833	7.593148	0	
145	N146	-8.116342	2.645833	7.593148	0	
146	N147	-3.332848	0.145833	-1.192106	0	
147	N148	-3.332848	2.645833	-1.192106	0	
148	N149	-4.999515	0.145833	1.694645	0	
149	N150	-4.999515	2.645833	1.694645	0	
150	N151	-6.666182	0.145833	4.581397	0	
151	N152	-6.666182	2.645833	4.581397	0	
152	N153	-8.332848	0.145833	7.468148	0	
153	N154	-8.332848	2.645833	7.468148	0	
154	N155	-4.366342	0	1.097957	0	
155	N156	-4.366342	2.5	1.097957	0	
156	N157	-6.866342	0	5.428084	0	
157	N158	-6.866342	2.5	5.428084	0	
158	N159	-4.000988	0	1.308895	0	
159	N160	-4.000988	2.5	1.308895	0	
160	N161	-6.500988	0	5.639022	0	
161	N162	-6.500988	2.5	5.639022	0	
162	N163	-3.915865	0	4.244792	0	
163	N164	-3.915865	2.5	4.244792	0	
164	N165	-3.65024	0	3.784716	0	
165	N166	-3.65024	2.5	3.784716	0	
166	N167	-4.18149	0	4.704868	0	
167	N168	-4.18149	2.5	4.704868	0	
168	N169	-3.555021	0	4.453125	0	
169	N170	-3.555021	2.5	4.453125	0	
170	N171	-3.332848	4.8125	-1.192106	0	
171	N172	-4.999515	4.8125	1.694645	0	
172	N173	-6.666182	4.8125	4.581397	0	
173	N174	-8.332848	4.8125	7.468148	0	
174	N175	-3.332848	-2.1875	-1.192106	0	
175	N176	-4.999515	-2.1875	1.694645	0	
176	N177	-6.666182	-2.1875	4.581397	0	
177	N178	-8.332848	-2.1875	7.468148	0	
178	N179	-4.041583	2.5	1.285457	0	
179	N180	-3.86899	0	4.163602	0	
180	N181	-3.717948	0	3.90199	0	
181	N182	-3.96274	0	4.325982	0	
182	N183	-4.113782	0	4.587593	0	
183	N184	-3.86899	2.5	4.163602	0	
184	N185	-3.717948	2.5	3.90199	0	
185	N186	-3.96274	2.5	4.325982	0	
186	N187	-4.113782	2.5	4.587593	0	
187	N188	-5.616342	2.645833	3.263021	0	
188	N189	-4.366342	0.145833	1.097957	0	
189	N190	-4.366342	2.645833	1.097957	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
190	N191	-6.866342	0.145833	5.428084	0	
191	N192	-6.866342	2.645833	5.428084	0	
192	N193	-4.116342	2.645833	0.664945	0	
193	N195	-3.555021	4.25	4.453125	0	
194	N196	-3.555021	-1.75	4.453125	0	
195	N197	-3.555021	3.916667	4.453125	0	
196	N198	-3.555021	-1.416667	4.453125	0	
197	N199	-3.410684	3.916667	4.536458	0	
198	N200	-3.410684	-1.416667	4.536458	0	
199	N201	-2.111645	2.833333	4.453125	0	
200	N202	-3.555021	2.833333	4.453125	0	
201	N203	-2.833333	2.166667	5.703125	0	
202	N204	-2.111645	2.166667	4.453125	0	
203	N205	-3.555021	2.166667	4.453125	0	
204	N206	-7.833333	1.645833	8.333333	0	
205	N207	-8.332848	1.645833	7.468148	0	
206	N211	2.666182	1.645833	7.468148	0	
207	N212	2.166667	1.645833	8.333333	0	
208	N216	-3.332848	1.645833	-1.192106	0	
209	N217	-2.333818	1.645833	-1.192106	0	
210	N212A	-7.333333	2.645833	8.083333	0	
211	N213	1.666667	2.645833	8.083333	0	
212	N214	-2.833333	3.5	5.703125	0	
213	N216A	2.199675	2.645833	7.160135	0	
214	N217A	-2.300325	2.645833	-0.634093	0	
215	N218	-2.111645	3.5	4.453125	0	
216	N220	-3.366342	2.645833	-0.634093	0	
217	N221	-7.866342	2.645833	7.160135	0	
218	N222	-3.555021	3.5	4.453125	0	
219	N221A	-7.333333	0.145833	8.083333	0	
220	N222A	1.666667	0.145833	8.083333	0	
221	N223	-2.833333	-1	5.703125	0	
222	N225	2.199675	0.145833	7.160135	0	
223	N226	-2.300325	0.145833	-0.634093	0	
224	N227	-2.111645	-1	4.453125	0	
225	N229	-3.366342	0.145833	-0.634093	0	
226	N230	-7.866342	0.145833	7.160135	0	
227	N231	-3.555021	-1	4.453125	0	
228	N230A	-0.325428	2.5	5.171945	0	
229	N231A	-0.325428	0	5.171945	0	
230	N232	-3.825614	2.5	2.546805	0	
231	N233	-3.825614	0	2.546805	0	
232	N234	-0.450428	2.5	5.388451	0	
233	N235	-0.450428	0	5.388451	0	
234	N236	-3.575614	2.5	2.546805	0	
235	N237	-3.575614	0	2.546805	0	
236	N238	-0.450428	3.25	5.388451	0	
237	N239	-3.575614	3.25	2.546805	0	
238	N240	-0.450428	-0.75	5.388451	0	
239	N241	-3.575614	-0.75	2.546805	0	



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### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Horizontal mount pipe	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
3	Standoff Horizontal	PIPE 1.5	Beam	Pipe	Q235	Typical	.749	.293	.293	.586
4	Standoff Diagonal	SR 0.625	Beam	BAR	Q235	Typical	.307	.007	.007	.015
5	Tieback	PIPE 2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
6	Standoff Vertical	SR 0.625	Beam	BAR	Q235	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253
8	tower pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
9	Mast Pipe	PIPE 4.0	Column	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
10	V-Brace	L2.5x2.5x4	Column	Single An...	A36 Gr.36	Typical	1.19	.692	.692	.026
11	OVP Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E..Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A36 Gr.36	29000	11154	.3	.65	.49	36	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
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	LV	N2	N1			Horizontal mou...	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Horizontal mou...	Beam	Pipe	Q235	Typical
3	SDF	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M6	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	LM2	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	LM1	N11	N19			RIGID	None	None	RIGID	Typical
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
15	M17	N26	N32			Standoff Horiz...	Beam	Pipe	Q235	Typical
16	M18	N25	N31			Standoff Horiz...	Beam	Pipe	Q235	Typical
17	M19	N27	N33			Standoff Horiz...	Beam	Pipe	Q235	Typical
18	M20	N28	N34			Standoff Horiz...	Beam	Pipe	Q235	Typical
19	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
23	M25	N31	N26			Standoff Diago...	Beam	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diago...	Beam	BAR	Q235	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
25	M27	N33	N28			Standoff Diago...	Beam	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diago...	Beam	BAR	Q235	Typical
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP4A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Beam	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Beam	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Beam	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Beam	BAR	Q235	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M51A	N30	N36			RIGID	None	None	RIGID	Typical
42	M52A	N29	N35			RIGID	None	None	RIGID	Typical
43	M43	N61A	N62A			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
44	M44A	N63	N65			RIGID	None	None	RIGID	Typical
45	M45A	N64	N66			RIGID	None	None	RIGID	Typical
46	M46A	N69	N68			Horizontal mou...	Beam	Pipe	Q235	Typical
47	M47A	N71	N70			Horizontal mou...	Beam	Pipe	Q235	Typical
48	M48	N72	N80A			RIGID	None	None	RIGID	Typical
49	M49	N73	N81A			RIGID	None	None	RIGID	Typical
50	M50	N75	N83A			RIGID	None	None	RIGID	Typical
51	M51	N74	N82A			RIGID	None	None	RIGID	Typical
52	M52	N77A	N85			RIGID	None	None	RIGID	Typical
53	M53	N76A	N84			RIGID	None	None	RIGID	Typical
54	M54	N79A	N87			RIGID	None	None	RIGID	Typical
55	M55	N78A	N86			RIGID	None	None	RIGID	Typical
56	M56	N89	N93		90	Standoff Plate	Beam	BAR	Q235	Typical
57	M57	N88	N92		90	Standoff Plate	Beam	BAR	Q235	Typical
58	M58	N90	N94		90	Standoff Plate	Beam	BAR	Q235	Typical
59	M59	N91	N95		90	Standoff Plate	Beam	BAR	Q235	Typical
60	M60	N93	N99			Standoff Horiz...	Beam	Pipe	Q235	Typical
61	M61	N92	N98			Standoff Horiz...	Beam	Pipe	Q235	Typical
62	M62	N94	N100			Standoff Horiz...	Beam	Pipe	Q235	Typical
63	OVP2	N95	N101			Standoff Horiz...	Beam	Pipe	Q235	Typical
64	M64	N99	N97		90	Standoff Plate	Beam	BAR	Q235	Typical
65	M65	N101	N97		90	Standoff Plate	Beam	BAR	Q235	Typical
66	M66	N98	N96		90	Standoff Plate	Beam	BAR	Q235	Typical
67	M67	N100	N96		90	Standoff Plate	Beam	BAR	Q235	Typical
68	M68	N98	N93			Standoff Diago...	Beam	BAR	Q235	Typical
69	M69	N99	N92			Standoff Diago...	Beam	BAR	Q235	Typical
70	M70	N100	N95			Standoff Diago...	Beam	BAR	Q235	Typical
71	M71	N94	N101			Standoff Diago...	Beam	BAR	Q235	Typical
72	MP4C	N104	N108			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
73	MP3C	N105	N109			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
74	MP2C	N106	N110			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
75	MP1C	N107	N111			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
76	M76	N92	N93			Standoff Vertical	Beam	BAR	Q235	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
77	M77	N98	N99			Standoff Vertical	Beam	BAR	Q235	Typical
78	M78	N100	N101			Standoff Vertical	Beam	BAR	Q235	Typical
79	M79	N94	N95			Standoff Vertical	Beam	BAR	Q235	Typical
80	M80	N89	N123			RIGID	None	None	RIGID	Typical
81	M81	N88	N122			RIGID	None	None	RIGID	Typical
82	M82	N91	N125			RIGID	None	None	RIGID	Typical
83	M83	N90	N124			RIGID	None	None	RIGID	Typical
84	M84	N97	N103			RIGID	None	None	RIGID	Typical
85	M85	N96	N102			RIGID	None	None	RIGID	Typical
86	M86	N128	N129			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
87	M87	N130	N132			RIGID	None	None	RIGID	Typical
88	M88	N131	N133			RIGID	None	None	RIGID	Typical
89	M89	N136	N135			Horizontal mou...	Beam	Pipe	Q235	Typical
90	M90	N138	N137			Horizontal mou...	Beam	Pipe	Q235	Typical
91	M91	N139	N147			RIGID	None	None	RIGID	Typical
92	M92	N140	N148			RIGID	None	None	RIGID	Typical
93	M93	N142	N150			RIGID	None	None	RIGID	Typical
94	M94	N141	N149			RIGID	None	None	RIGID	Typical
95	M95	N144	N152			RIGID	None	None	RIGID	Typical
96	M96	N143	N151			RIGID	None	None	RIGID	Typical
97	M97	N146	N154			RIGID	None	None	RIGID	Typical
98	M98	N145	N153			RIGID	None	None	RIGID	Typical
99	M99	N156	N160		90	Standoff Plate	Beam	BAR	Q235	Typical
100	M100	N155	N159		90	Standoff Plate	Beam	BAR	Q235	Typical
101	M101	N157	N161		90	Standoff Plate	Beam	BAR	Q235	Typical
102	M102	N158	N162		90	Standoff Plate	Beam	BAR	Q235	Typical
103	M103	N160	N166			Standoff Horiz...	Beam	Pipe	Q235	Typical
104	M104	N159	N165			Standoff Horiz...	Beam	Pipe	Q235	Typical
105	M105	N161	N167			Standoff Horiz...	Beam	Pipe	Q235	Typical
106	OVP	N162	N168			Standoff Horiz...	Beam	Pipe	Q235	Typical
107	M107	N166	N164		90	Standoff Plate	Beam	BAR	Q235	Typical
108	M108	N168	N164		90	Standoff Plate	Beam	BAR	Q235	Typical
109	M109	N165	N163		90	Standoff Plate	Beam	BAR	Q235	Typical
110	M110	N167	N163		90	Standoff Plate	Beam	BAR	Q235	Typical
111	M111	N165	N160			Standoff Diago...	Beam	BAR	Q235	Typical
112	M112	N166	N159			Standoff Diago...	Beam	BAR	Q235	Typical
113	M113	N167	N162			Standoff Diago...	Beam	BAR	Q235	Typical
114	M114	N161	N168			Standoff Diago...	Beam	BAR	Q235	Typical
115	MP4B	N171	N175			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
116	MP3B	N172	N176			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
117	MP2B	N173	N177			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
118	MP1B	N174	N178			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
119	M119	N159	N160			Standoff Vertical	Beam	BAR	Q235	Typical
120	M120	N165	N166			Standoff Vertical	Beam	BAR	Q235	Typical
121	M121	N167	N168			Standoff Vertical	Beam	BAR	Q235	Typical
122	M122	N161	N162			Standoff Vertical	Beam	BAR	Q235	Typical
123	M123	N156	N190			RIGID	None	None	RIGID	Typical
124	M124	N155	N189			RIGID	None	None	RIGID	Typical
125	M125	N158	N192			RIGID	None	None	RIGID	Typical
126	M126	N157	N191			RIGID	None	None	RIGID	Typical
127	M127	N164	N170			RIGID	None	None	RIGID	Typical
128	M128	N163	N169			RIGID	None	None	RIGID	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
129	M129	N195	N196			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
130	M130	N197	N199			RIGID	None	None	RIGID	Typical
131	M131	N198	N200			RIGID	None	None	RIGID	Typical
132	M132	N205	N59A			Tieback	Beam	Pipe	Q235	Typical
133	M134	N203	N126			Tieback	Beam	Pipe	Q235	Typical
134	M136	N204	N193			Tieback	Beam	Pipe	Q235	Typical
135	M153	N231A	N235			RIGID	None	None	RIGID	Typical
136	M154	N230A	N234			RIGID	None	None	RIGID	Typical
137	M155	N233	N237			RIGID	None	None	RIGID	Typical
138	M156	N232	N236			RIGID	None	None	RIGID	Typical
139	OVP3	N239	N241			OVP Pipe	Beam	Pipe	A53 Gr. B	Typical
140	OVP1	N238	N240			OVP Pipe	Beam	Pipe	A53 Gr. B	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	LV						Yes				None
2	M2						Yes	Default			None
3	SDF						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	LM2						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	LM1						Yes	** NA **			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None
13	M15						Yes				None
14	M16						Yes				None
15	M17						Yes	Default			None
16	M18						Yes				None
17	M19						Yes				None
18	M20						Yes	Default			None
19	M21						Yes	Default			None
20	M22						Yes				None
21	M23						Yes				None
22	M24						Yes				None
23	M25	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
24	M26	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
25	M27	BenPIN	BenPIN			Euler Buc...	Yes				None
26	M28	BenPIN	BenPIN			Euler Buc...	Yes				None
27	M29						Yes	** NA **		Inactive	None
28	M30						Yes	** NA **		Inactive	None
29	MP4A						Yes				None
30	MP3A						Yes				None
31	MP2A						Yes				None
32	MP1A						Yes				None
33	M44	BenPIN	BenPIN				Yes				None
34	M45	BenPIN	BenPIN				Yes				None
35	M46	BenPIN	BenPIN				Yes				None



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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
36	M47	BenPIN	BenPIN				Yes	Default			None
37	M47B		OOOXOO				Yes	** NA **			None
38	M48A		OOOXOO				Yes	** NA **			None
39	M49A		OOOXOO				Yes	** NA **			None
40	M50A		OOOXOO				Yes	** NA **			None
41	M51A						Yes	** NA **			None
42	M52A						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44A						Yes	** NA **			None
45	M45A						Yes	** NA **			None
46	M46A						Yes				None
47	M47A						Yes				None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	Default			None
57	M57						Yes	Default			None
58	M58						Yes				None
59	M59						Yes				None
60	M60						Yes	Default			None
61	M61						Yes				None
62	M62						Yes				None
63	OVP2						Yes	Default			None
64	M64						Yes	Default			None
65	M65						Yes				None
66	M66						Yes				None
67	M67						Yes				None
68	M68	BenPIN	BenPIN			Euler Buc..	Yes	Default			None
69	M69	BenPIN	BenPIN			Euler Buc..	Yes	Default			None
70	M70	BenPIN	BenPIN			Euler Buc..	Yes				None
71	M71	BenPIN	BenPIN			Euler Buc..	Yes				None
72	MP4C						Yes				None
73	MP3C						Yes				None
74	MP2C						Yes				None
75	MP1C						Yes				None
76	M76	BenPIN	BenPIN				Yes				None
77	M77	BenPIN	BenPIN				Yes				None
78	M78	BenPIN	BenPIN				Yes				None
79	M79	BenPIN	BenPIN				Yes	Default			None
80	M80		OOOXOO				Yes	** NA **			None
81	M81		OOOXOO				Yes	** NA **			None
82	M82		OOOXOO				Yes	** NA **			None
83	M83		OOOXOO				Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None



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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
88	M88						Yes	** NA **			None
89	M89						Yes				None
90	M90						Yes				None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	M93						Yes	** NA **			None
94	M94						Yes	** NA **			None
95	M95						Yes	** NA **			None
96	M96						Yes	** NA **			None
97	M97						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	M99						Yes	Default			None
100	M100						Yes	Default			None
101	M101						Yes				None
102	M102						Yes				None
103	M103						Yes	Default			None
104	M104						Yes				None
105	M105						Yes	Default			None
106	OVP						Yes	Default			None
107	M107						Yes				None
108	M108						Yes				None
109	M109						Yes				None
110	M110						Yes				None
111	M111	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
112	M112	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
113	M113	BenPIN	BenPIN			Euler Buc...	Yes				None
114	M114	BenPIN	BenPIN			Euler Buc...	Yes				None
115	MP4B						Yes				None
116	MP3B						Yes				None
117	MP2B						Yes				None
118	MP1B						Yes				None
119	M119	BenPIN	BenPIN				Yes				None
120	M120	BenPIN	BenPIN				Yes				None
121	M121	BenPIN	BenPIN				Yes				None
122	M122	BenPIN	BenPIN				Yes	Default			None
123	M123		OOOXOO				Yes	** NA **			None
124	M124		OOOXOO				Yes	** NA **			None
125	M125		OOOXOO				Yes	** NA **			None
126	M126		OOOXOO				Yes	** NA **			None
127	M127						Yes	** NA **			None
128	M128						Yes	** NA **			None
129	M129						Yes	** NA **			None
130	M130						Yes	** NA **			None
131	M131						Yes	** NA **			None
132	M132	BenPIN	BenPIN				Yes	Default			None
133	M134	BenPIN	BenPIN				Yes	Default			None
134	M136	BenPIN	BenPIN				Yes	Default			None
135	M153		OOOXOO				Yes	** NA **			None
136	M154		OOOXOO				Yes	** NA **			None
137	M155		OOOXOO				Yes	** NA **			None
138	M156		OOOXOO				Yes	** NA **			None
139	OVP3						Yes				None



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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
140	OVP1						Yes				None

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	Y	-43.55	2.5
2	MP1B	My	.011	2.5
3	MP1B	Mz	-.019	2.5
4	MP1B	Y	-43.55	4.5
5	MP1B	My	.011	4.5
6	MP1B	Mz	-.019	4.5
7	MP2A	Y	-20.3	1
8	MP2A	My	-.01	1
9	MP2A	Mz	.013	1
10	MP2A	Y	-20.3	6
11	MP2A	My	-.01	6
12	MP2A	Mz	.013	6
13	MP2B	Y	-20.3	1
14	MP2B	My	-.006	1
15	MP2B	Mz	-.015	1
16	MP2B	Y	-20.3	6
17	MP2B	My	-.006	6
18	MP2B	Mz	-.015	6
19	MP2C	Y	-20.3	1
20	MP2C	My	.015	1
21	MP2C	Mz	.005	1
22	MP2C	Y	-20.3	6
23	MP2C	My	.015	6
24	MP2C	Mz	.005	6
25	MP2A	Y	-20.3	1
26	MP2A	My	-.01	1
27	MP2A	Mz	-.013	1
28	MP2A	Y	-20.3	6
29	MP2A	My	-.01	6
30	MP2A	Mz	-.013	6
31	MP2B	Y	-20.3	1
32	MP2B	My	.016	1
33	MP2B	Mz	-.002	1
34	MP2B	Y	-20.3	6
35	MP2B	My	.016	6
36	MP2B	Mz	-.002	6
37	MP2C	Y	-20.3	1
38	MP2C	My	-.008	1
39	MP2C	Mz	.014	1
40	MP2C	Y	-20.3	6
41	MP2C	My	-.008	6
42	MP2C	Mz	.014	6
43	MP2A	Y	-70.3	.5
44	MP2A	My	.035	.5
45	MP2A	Mz	0	.5
46	MP2B	Y	-70.3	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
47	MP2B	My	-.018	.5
48	MP2B	Mz	.03	.5
49	MP2C	Y	-70.3	.5
50	MP2C	My	-.012	.5
51	MP2C	Mz	-.033	.5
52	MP1A	Y	-84.4	3.5
53	MP1A	My	0	3.5
54	MP1A	Mz	0	3.5
55	MP1B	Y	-84.4	3.5
56	MP1B	My	0	3.5
57	MP1B	Mz	0	3.5
58	MP1C	Y	-84.4	3.5
59	MP1C	My	0	3.5
60	MP1C	Mz	0	3.5
61	OVP1	Y	-26.9	2
62	OVP1	My	0	2
63	OVP1	Mz	0	2
64	OVP3	Y	-26.9	2
65	OVP3	My	0	2
66	OVP3	Mz	0	2
67	MP4A	Y	-28.65	2.5
68	MP4A	My	-.014	2.5
69	MP4A	Mz	0	2.5
70	MP4A	Y	-28.65	4.5
71	MP4A	My	-.014	4.5
72	MP4A	Mz	0	4.5
73	MP4C	Y	-28.65	2.5
74	MP4C	My	.005	2.5
75	MP4C	Mz	.013	2.5
76	MP4C	Y	-28.65	4.5
77	MP4C	My	.005	4.5
78	MP4C	Mz	.013	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	Y	-54.72	2.5
2	MP1B	My	.014	2.5
3	MP1B	Mz	-.024	2.5
4	MP1B	Y	-54.72	4.5
5	MP1B	My	.014	4.5
6	MP1B	Mz	-.024	4.5
7	MP2A	Y	-92.733	1
8	MP2A	My	-.046	1
9	MP2A	Mz	.058	1
10	MP2A	Y	-92.733	6
11	MP2A	My	-.046	6
12	MP2A	Mz	.058	6
13	MP2B	Y	-92.733	1
14	MP2B	My	-.027	1
15	MP2B	Mz	-.069	1
16	MP2B	Y	-92.733	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP2B	My	-.027	6
18	MP2B	Mz	-.069	6
19	MP2C	Y	-92.733	1
20	MP2C	My	.07	1
21	MP2C	Mz	.024	1
22	MP2C	Y	-92.733	6
23	MP2C	My	.07	6
24	MP2C	Mz	.024	6
25	MP2A	Y	-92.733	1
26	MP2A	My	-.046	1
27	MP2A	Mz	-.058	1
28	MP2A	Y	-92.733	6
29	MP2A	My	-.046	6
30	MP2A	Mz	-.058	6
31	MP2B	Y	-92.733	1
32	MP2B	My	.073	1
33	MP2B	Mz	-.011	1
34	MP2B	Y	-92.733	6
35	MP2B	My	.073	6
36	MP2B	Mz	-.011	6
37	MP2C	Y	-92.733	1
38	MP2C	My	-.039	1
39	MP2C	Mz	.063	1
40	MP2C	Y	-92.733	6
41	MP2C	My	-.039	6
42	MP2C	Mz	.063	6
43	MP2A	Y	-62.733	.5
44	MP2A	My	.031	.5
45	MP2A	Mz	0	.5
46	MP2B	Y	-62.733	.5
47	MP2B	My	-.016	.5
48	MP2B	Mz	.027	.5
49	MP2C	Y	-62.733	.5
50	MP2C	My	-.011	.5
51	MP2C	Mz	-.029	.5
52	MP1A	Y	-69.503	3.5
53	MP1A	My	0	3.5
54	MP1A	Mz	0	3.5
55	MP1B	Y	-69.503	3.5
56	MP1B	My	0	3.5
57	MP1B	Mz	0	3.5
58	MP1C	Y	-69.503	3.5
59	MP1C	My	0	3.5
60	MP1C	Mz	0	3.5
61	OVP1	Y	-85.118	2
62	OVP1	My	0	2
63	OVP1	Mz	0	2
64	OVP3	Y	-85.118	2
65	OVP3	My	0	2
66	OVP3	Mz	0	2
67	MP4A	Y	-45.91	2.5
68	MP4A	My	-.023	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP4A	Mz	0	2.5
70	MP4A	Y	-45.91	4.5
71	MP4A	My	-.023	4.5
72	MP4A	Mz	0	4.5
73	MP4C	Y	-45.91	2.5
74	MP4C	My	.008	2.5
75	MP4C	Mz	.022	2.5
76	MP4C	Y	-45.91	4.5
77	MP4C	My	.008	4.5
78	MP4C	Mz	.022	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	0	2.5
2	MP1B	Z	-38.071	2.5
3	MP1B	Mx	.016	2.5
4	MP1B	X	0	4.5
5	MP1B	Z	-38.071	4.5
6	MP1B	Mx	.016	4.5
7	MP2A	X	0	1
8	MP2A	Z	-105.28	1
9	MP2A	Mx	-.066	1
10	MP2A	X	0	6
11	MP2A	Z	-105.28	6
12	MP2A	Mx	-.066	6
13	MP2B	X	0	1
14	MP2B	Z	-60.283	1
15	MP2B	Mx	.045	1
16	MP2B	X	0	6
17	MP2B	Z	-60.283	6
18	MP2B	Mx	.045	6
19	MP2C	X	0	1
20	MP2C	Z	-52.302	1
21	MP2C	Mx	-.013	1
22	MP2C	X	0	6
23	MP2C	Z	-52.302	6
24	MP2C	Mx	-.013	6
25	MP2A	X	0	1
26	MP2A	Z	-105.28	1
27	MP2A	Mx	.066	1
28	MP2A	X	0	6
29	MP2A	Z	-105.28	6
30	MP2A	Mx	.066	6
31	MP2B	X	0	1
32	MP2B	Z	-60.283	1
33	MP2B	Mx	.007	1
34	MP2B	X	0	6
35	MP2B	Z	-60.283	6
36	MP2B	Mx	.007	6
37	MP2C	X	0	1
38	MP2C	Z	-52.302	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
39	MP2C	Mx	-.036	1
40	MP2C	X	0	6
41	MP2C	Z	-52.302	6
42	MP2C	Mx	-.036	6
43	MP2A	X	0	.5
44	MP2A	Z	-59.232	.5
45	MP2A	Mx	0	.5
46	MP2B	X	0	.5
47	MP2B	Z	-39.17	.5
48	MP2B	Mx	-.017	.5
49	MP2C	X	0	.5
50	MP2C	Z	-35.611	.5
51	MP2C	Mx	.017	.5
52	MP1A	X	0	3.5
53	MP1A	Z	-59.232	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	3.5
56	MP1B	Z	-44.615	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	0	3.5
59	MP1C	Z	-42.023	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	0	2
62	OVP1	Z	-94.525	2
63	OVP1	Mx	0	2
64	OVP3	X	0	2
65	OVP3	Z	-94.525	2
66	OVP3	Mx	0	2
67	MP4A	X	0	2.5
68	MP4A	Z	-72.416	2.5
69	MP4A	Mx	0	2.5
70	MP4A	X	0	4.5
71	MP4A	Z	-72.416	4.5
72	MP4A	Mx	0	4.5
73	MP4C	X	0	2.5
74	MP4C	Z	-33.099	2.5
75	MP4C	Mx	-.016	2.5
76	MP4C	X	0	4.5
77	MP4C	Z	-33.099	4.5
78	MP4C	Mx	-.016	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	12.897	2.5
2	MP1B	Z	-22.339	2.5
3	MP1B	Mx	.013	2.5
4	MP1B	X	12.897	4.5
5	MP1B	Z	-22.339	4.5
6	MP1B	Mx	.013	4.5
7	MP2A	X	45.14	1
8	MP2A	Z	-78.186	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	-.071	1
10	MP2A	X	45.14	6
11	MP2A	Z	-78.186	6
12	MP2A	Mx	-.071	6
13	MP2B	X	22.642	1
14	MP2B	Z	-39.217	1
15	MP2B	Mx	.023	1
16	MP2B	X	22.642	6
17	MP2B	Z	-39.217	6
18	MP2B	Mx	.023	6
19	MP2C	X	40.246	1
20	MP2C	Z	-69.707	1
21	MP2C	Mx	.013	1
22	MP2C	X	40.246	6
23	MP2C	Z	-69.707	6
24	MP2C	Mx	.013	6
25	MP2A	X	45.14	1
26	MP2A	Z	-78.186	1
27	MP2A	Mx	.026	1
28	MP2A	X	45.14	6
29	MP2A	Z	-78.186	6
30	MP2A	Mx	.026	6
31	MP2B	X	22.642	1
32	MP2B	Z	-39.217	1
33	MP2B	Mx	.023	1
34	MP2B	X	22.642	6
35	MP2B	Z	-39.217	6
36	MP2B	Mx	.023	6
37	MP2C	X	40.246	1
38	MP2C	Z	-69.707	1
39	MP2C	Mx	-.064	1
40	MP2C	X	40.246	6
41	MP2C	Z	-69.707	6
42	MP2C	Mx	-.064	6
43	MP2A	X	26.272	.5
44	MP2A	Z	-45.505	.5
45	MP2A	Mx	.013	.5
46	MP2B	X	16.241	.5
47	MP2B	Z	-28.13	.5
48	MP2B	Mx	-.016	.5
49	MP2C	X	24.09	.5
50	MP2C	Z	-41.725	.5
51	MP2C	Mx	.015	.5
52	MP1A	X	27.18	3.5
53	MP1A	Z	-47.077	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	19.871	3.5
56	MP1B	Z	-34.418	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	25.59	3.5
59	MP1C	Z	-44.323	3.5
60	MP1C	Mx	0	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
61	OVP1	X	45.809	2
62	OVP1	Z	-79.343	2
63	OVP1	Mx	0	2
64	OVP3	X	45.809	2
65	OVP3	Z	-79.343	2
66	OVP3	Mx	0	2
67	MP4A	X	30.642	2.5
68	MP4A	Z	-53.074	2.5
69	MP4A	Mx	-.015	2.5
70	MP4A	X	30.642	4.5
71	MP4A	Z	-53.074	4.5
72	MP4A	Mx	-.015	4.5
73	MP4C	X	27.01	2.5
74	MP4C	Z	-46.782	2.5
75	MP4C	Mx	-.017	2.5
76	MP4C	X	27.01	4.5
77	MP4C	Z	-46.782	4.5
78	MP4C	Mx	-.017	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	32.97	2.5
2	MP1B	Z	-19.035	2.5
3	MP1B	Mx	.016	2.5
4	MP1B	X	32.97	4.5
5	MP1B	Z	-19.035	4.5
6	MP1B	Mx	.016	4.5
7	MP2A	X	52.206	1
8	MP2A	Z	-30.141	1
9	MP2A	Mx	-.045	1
10	MP2A	X	52.206	6
11	MP2A	Z	-30.141	6
12	MP2A	Mx	-.045	6
13	MP2B	X	52.206	1
14	MP2B	Z	-30.141	1
15	MP2B	Mx	.007	1
16	MP2B	X	52.206	6
17	MP2B	Z	-30.141	6
18	MP2B	Mx	.007	6
19	MP2C	X	89.608	1
20	MP2C	Z	-51.735	1
21	MP2C	Mx	.055	1
22	MP2C	X	89.608	6
23	MP2C	Z	-51.735	6
24	MP2C	Mx	.055	6
25	MP2A	X	52.206	1
26	MP2A	Z	-30.141	1
27	MP2A	Mx	-.007	1
28	MP2A	X	52.206	6
29	MP2A	Z	-30.141	6
30	MP2A	Mx	-.007	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2B	X	52.206	1
32	MP2B	Z	-30.141	1
33	MP2B	Mx	.045	1
34	MP2B	X	52.206	6
35	MP2B	Z	-30.141	6
36	MP2B	Mx	.045	6
37	MP2C	X	89.608	1
38	MP2C	Z	-51.735	1
39	MP2C	Mx	-.073	1
40	MP2C	X	89.608	6
41	MP2C	Z	-51.735	6
42	MP2C	Mx	-.073	6
43	MP2A	X	33.922	.5
44	MP2A	Z	-19.585	.5
45	MP2A	Mx	.017	.5
46	MP2B	X	33.922	.5
47	MP2B	Z	-19.585	.5
48	MP2B	Mx	-.017	.5
49	MP2C	X	50.598	.5
50	MP2C	Z	-29.213	.5
51	MP2C	Mx	.005	.5
52	MP1A	X	38.638	3.5
53	MP1A	Z	-22.308	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	38.638	3.5
56	MP1B	Z	-22.308	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	50.787	3.5
59	MP1C	Z	-29.322	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	65.714	2
62	OVP1	Z	-37.94	2
63	OVP1	Mx	0	2
64	OVP3	X	65.714	2
65	OVP3	Z	-37.94	2
66	OVP3	Mx	0	2
67	MP4A	X	33.794	2.5
68	MP4A	Z	-19.511	2.5
69	MP4A	Mx	-.017	2.5
70	MP4A	X	33.794	4.5
71	MP4A	Z	-19.511	4.5
72	MP4A	Mx	-.017	4.5
73	MP4C	X	61.551	2.5
74	MP4C	Z	-35.537	2.5
75	MP4C	Mx	-.006	2.5
76	MP4C	X	61.551	4.5
77	MP4C	Z	-35.537	4.5
78	MP4C	Mx	-.006	4.5

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

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



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	62.623	2.5
2	MP1B	Z	0	2.5
3	MP1B	Mx	.016	2.5
4	MP1B	X	62.623	4.5
5	MP1B	Z	0	4.5
6	MP1B	Mx	.016	4.5
7	MP2A	X	45.284	1
8	MP2A	Z	0	1
9	MP2A	Mx	-.023	1
10	MP2A	X	45.284	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.023	6
13	MP2B	X	90.281	1
14	MP2B	Z	0	1
15	MP2B	Mx	-.026	1
16	MP2B	X	90.281	6
17	MP2B	Z	0	6
18	MP2B	Mx	-.026	6
19	MP2C	X	98.262	1
20	MP2C	Z	0	1
21	MP2C	Mx	.075	1
22	MP2C	X	98.262	6
23	MP2C	Z	0	6
24	MP2C	Mx	.075	6
25	MP2A	X	45.284	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.023	1
28	MP2A	X	45.284	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.023	6
31	MP2B	X	90.281	1
32	MP2B	Z	0	1
33	MP2B	Mx	.071	1
34	MP2B	X	90.281	6
35	MP2B	Z	0	6
36	MP2B	Mx	.071	6
37	MP2C	X	98.262	1
38	MP2C	Z	0	1
39	MP2C	Mx	-.041	1
40	MP2C	X	98.262	6
41	MP2C	Z	0	6
42	MP2C	Mx	-.041	6
43	MP2A	X	32.482	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	.016	.5
46	MP2B	X	52.544	.5
47	MP2B	Z	0	.5
48	MP2B	Mx	-.013	.5
49	MP2C	X	56.103	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.01	.5
52	MP1A	X	39.743	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	0	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	54.36	3.5
56	MP1B	Z	0	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	56.952	3.5
59	MP1C	Z	0	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	63.051	2
62	OVP1	Z	0	2
63	OVP1	Mx	0	2
64	OVP3	X	63.051	2
65	OVP3	Z	0	2
66	OVP3	Mx	0	2
67	MP4A	X	27.891	2.5
68	MP4A	Z	0	2.5
69	MP4A	Mx	-.014	2.5
70	MP4A	X	27.891	4.5
71	MP4A	Z	0	4.5
72	MP4A	Mx	-.014	4.5
73	MP4C	X	67.207	2.5
74	MP4C	Z	0	2.5
75	MP4C	Mx	.011	2.5
76	MP4C	X	67.207	4.5
77	MP4C	Z	0	4.5
78	MP4C	Mx	.011	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	64.865	2.5
2	MP1B	Z	37.45	2.5
3	MP1B	Mx	0	2.5
4	MP1B	X	64.865	4.5
5	MP1B	Z	37.45	4.5
6	MP1B	Mx	0	4.5
7	MP2A	X	52.206	1
8	MP2A	Z	30.141	1
9	MP2A	Mx	-.007	1
10	MP2A	X	52.206	6
11	MP2A	Z	30.141	6
12	MP2A	Mx	-.007	6
13	MP2B	X	91.175	1
14	MP2B	Z	52.64	1
15	MP2B	Mx	-.066	1
16	MP2B	X	91.175	6
17	MP2B	Z	52.64	6
18	MP2B	Mx	-.066	6
19	MP2C	X	60.685	1
20	MP2C	Z	35.036	1
21	MP2C	Mx	.055	1
22	MP2C	X	60.685	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
23	MP2C	Z	35.036	6
24	MP2C	Mx	.055	6
25	MP2A	X	52.206	1
26	MP2A	Z	30.141	1
27	MP2A	Mx	-.045	1
28	MP2A	X	52.206	6
29	MP2A	Z	30.141	6
30	MP2A	Mx	-.045	6
31	MP2B	X	91.175	1
32	MP2B	Z	52.64	1
33	MP2B	Mx	.066	1
34	MP2B	X	91.175	6
35	MP2B	Z	52.64	6
36	MP2B	Mx	.066	6
37	MP2C	X	60.685	1
38	MP2C	Z	35.036	1
39	MP2C	Mx	-.001	1
40	MP2C	X	60.685	6
41	MP2C	Z	35.036	6
42	MP2C	Mx	-.001	6
43	MP2A	X	33.922	.5
44	MP2A	Z	19.585	.5
45	MP2A	Mx	.017	.5
46	MP2B	X	51.296	.5
47	MP2B	Z	29.616	.5
48	MP2B	Mx	0	.5
49	MP2C	X	37.702	.5
50	MP2C	Z	21.767	.5
51	MP2C	Mx	-.017	.5
52	MP1A	X	38.638	3.5
53	MP1A	Z	22.308	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	51.296	3.5
56	MP1B	Z	29.616	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	41.392	3.5
59	MP1C	Z	23.898	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	57.122	2
62	OVP1	Z	32.979	2
63	OVP1	Mx	0	2
64	OVP3	X	57.122	2
65	OVP3	Z	32.979	2
66	OVP3	Mx	0	2
67	MP4A	X	33.794	2.5
68	MP4A	Z	19.511	2.5
69	MP4A	Mx	-.017	2.5
70	MP4A	X	33.794	4.5
71	MP4A	Z	19.511	4.5
72	MP4A	Mx	-.017	4.5
73	MP4C	X	40.086	2.5
74	MP4C	Z	23.144	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP4C	Mx	.018	2.5
76	MP4C	X	40.086	4.5
77	MP4C	Z	23.144	4.5
78	MP4C	Mx	.018	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	31.312	2.5
2	MP1B	Z	54.234	2.5
3	MP1B	Mx	-.016	2.5
4	MP1B	X	31.312	4.5
5	MP1B	Z	54.234	4.5
6	MP1B	Mx	-.016	4.5
7	MP2A	X	45.14	1
8	MP2A	Z	78.186	1
9	MP2A	Mx	.026	1
10	MP2A	X	45.14	6
11	MP2A	Z	78.186	6
12	MP2A	Mx	.026	6
13	MP2B	X	45.14	1
14	MP2B	Z	78.186	1
15	MP2B	Mx	-.071	1
16	MP2B	X	45.14	6
17	MP2B	Z	78.186	6
18	MP2B	Mx	-.071	6
19	MP2C	X	23.546	1
20	MP2C	Z	40.784	1
21	MP2C	Mx	.028	1
22	MP2C	X	23.546	6
23	MP2C	Z	40.784	6
24	MP2C	Mx	.028	6
25	MP2A	X	45.14	1
26	MP2A	Z	78.186	1
27	MP2A	Mx	-.071	1
28	MP2A	X	45.14	6
29	MP2A	Z	78.186	6
30	MP2A	Mx	-.071	6
31	MP2B	X	45.14	1
32	MP2B	Z	78.186	1
33	MP2B	Mx	.026	1
34	MP2B	X	45.14	6
35	MP2B	Z	78.186	6
36	MP2B	Mx	.026	6
37	MP2C	X	23.546	1
38	MP2C	Z	40.784	1
39	MP2C	Mx	.018	1
40	MP2C	X	23.546	6
41	MP2C	Z	40.784	6
42	MP2C	Mx	.018	6
43	MP2A	X	26.272	.5
44	MP2A	Z	45.505	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	.013	.5
46	MP2B	X	26.272	.5
47	MP2B	Z	45.505	.5
48	MP2B	Mx	.013	.5
49	MP2C	X	16.644	.5
50	MP2C	Z	28.829	.5
51	MP2C	Mx	-.016	.5
52	MP1A	X	27.18	3.5
53	MP1A	Z	47.077	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	27.18	3.5
56	MP1B	Z	47.077	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	20.165	3.5
59	MP1C	Z	34.927	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	40.848	2
62	OVP1	Z	70.751	2
63	OVP1	Mx	0	2
64	OVP3	X	40.848	2
65	OVP3	Z	70.751	2
66	OVP3	Mx	0	2
67	MP4A	X	30.642	2.5
68	MP4A	Z	53.074	2.5
69	MP4A	Mx	-.015	2.5
70	MP4A	X	30.642	4.5
71	MP4A	Z	53.074	4.5
72	MP4A	Mx	-.015	4.5
73	MP4C	X	14.617	2.5
74	MP4C	Z	25.317	2.5
75	MP4C	Mx	.014	2.5
76	MP4C	X	14.617	4.5
77	MP4C	Z	25.317	4.5
78	MP4C	Mx	.014	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	0	2.5
2	MP1B	Z	38.071	2.5
3	MP1B	Mx	-.016	2.5
4	MP1B	X	0	4.5
5	MP1B	Z	38.071	4.5
6	MP1B	Mx	-.016	4.5
7	MP2A	X	0	1
8	MP2A	Z	105.28	1
9	MP2A	Mx	.066	1
10	MP2A	X	0	6
11	MP2A	Z	105.28	6
12	MP2A	Mx	.066	6
13	MP2B	X	0	1
14	MP2B	Z	60.283	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mx	-.045	1
16	MP2B	X	0	6
17	MP2B	Z	60.283	6
18	MP2B	Mx	-.045	6
19	MP2C	X	0	1
20	MP2C	Z	52.302	1
21	MP2C	Mx	.013	1
22	MP2C	X	0	6
23	MP2C	Z	52.302	6
24	MP2C	Mx	.013	6
25	MP2A	X	0	1
26	MP2A	Z	105.28	1
27	MP2A	Mx	-.066	1
28	MP2A	X	0	6
29	MP2A	Z	105.28	6
30	MP2A	Mx	-.066	6
31	MP2B	X	0	1
32	MP2B	Z	60.283	1
33	MP2B	Mx	-.007	1
34	MP2B	X	0	6
35	MP2B	Z	60.283	6
36	MP2B	Mx	-.007	6
37	MP2C	X	0	1
38	MP2C	Z	52.302	1
39	MP2C	Mx	.036	1
40	MP2C	X	0	6
41	MP2C	Z	52.302	6
42	MP2C	Mx	.036	6
43	MP2A	X	0	.5
44	MP2A	Z	59.232	.5
45	MP2A	Mx	0	.5
46	MP2B	X	0	.5
47	MP2B	Z	39.17	.5
48	MP2B	Mx	.017	.5
49	MP2C	X	0	.5
50	MP2C	Z	35.611	.5
51	MP2C	Mx	-.017	.5
52	MP1A	X	0	3.5
53	MP1A	Z	59.232	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	3.5
56	MP1B	Z	44.615	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	0	3.5
59	MP1C	Z	42.023	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	0	2
62	OVP1	Z	94.525	2
63	OVP1	Mx	0	2
64	OVP3	X	0	2
65	OVP3	Z	94.525	2
66	OVP3	Mx	0	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
67	MP4A	X	0	2.5
68	MP4A	Z	72.416	2.5
69	MP4A	Mx	0	2.5
70	MP4A	X	0	4.5
71	MP4A	Z	72.416	4.5
72	MP4A	Mx	0	4.5
73	MP4C	X	0	2.5
74	MP4C	Z	33.099	2.5
75	MP4C	Mx	.016	2.5
76	MP4C	X	0	4.5
77	MP4C	Z	33.099	4.5
78	MP4C	Mx	.016	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	-12.897	2.5
2	MP1B	Z	22.339	2.5
3	MP1B	Mx	-.013	2.5
4	MP1B	X	-12.897	4.5
5	MP1B	Z	22.339	4.5
6	MP1B	Mx	-.013	4.5
7	MP2A	X	-45.14	1
8	MP2A	Z	78.186	1
9	MP2A	Mx	.071	1
10	MP2A	X	-45.14	6
11	MP2A	Z	78.186	6
12	MP2A	Mx	.071	6
13	MP2B	X	-22.642	1
14	MP2B	Z	39.217	1
15	MP2B	Mx	-.023	1
16	MP2B	X	-22.642	6
17	MP2B	Z	39.217	6
18	MP2B	Mx	-.023	6
19	MP2C	X	-40.246	1
20	MP2C	Z	69.707	1
21	MP2C	Mx	-.013	1
22	MP2C	X	-40.246	6
23	MP2C	Z	69.707	6
24	MP2C	Mx	-.013	6
25	MP2A	X	-45.14	1
26	MP2A	Z	78.186	1
27	MP2A	Mx	-.026	1
28	MP2A	X	-45.14	6
29	MP2A	Z	78.186	6
30	MP2A	Mx	-.026	6
31	MP2B	X	-22.642	1
32	MP2B	Z	39.217	1
33	MP2B	Mx	-.023	1
34	MP2B	X	-22.642	6
35	MP2B	Z	39.217	6
36	MP2B	Mx	-.023	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
37	MP2C	X	-40.246	1
38	MP2C	Z	69.707	1
39	MP2C	Mx	.064	1
40	MP2C	X	-40.246	6
41	MP2C	Z	69.707	6
42	MP2C	Mx	.064	6
43	MP2A	X	-26.272	.5
44	MP2A	Z	45.505	.5
45	MP2A	Mx	-.013	.5
46	MP2B	X	-16.241	.5
47	MP2B	Z	28.13	.5
48	MP2B	Mx	.016	.5
49	MP2C	X	-24.09	.5
50	MP2C	Z	41.725	.5
51	MP2C	Mx	-.015	.5
52	MP1A	X	-27.18	3.5
53	MP1A	Z	47.077	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-19.871	3.5
56	MP1B	Z	34.418	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-25.59	3.5
59	MP1C	Z	44.323	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-45.809	2
62	OVP1	Z	79.343	2
63	OVP1	Mx	0	2
64	OVP3	X	-45.809	2
65	OVP3	Z	79.343	2
66	OVP3	Mx	0	2
67	MP4A	X	-30.642	2.5
68	MP4A	Z	53.074	2.5
69	MP4A	Mx	.015	2.5
70	MP4A	X	-30.642	4.5
71	MP4A	Z	53.074	4.5
72	MP4A	Mx	.015	4.5
73	MP4C	X	-27.01	2.5
74	MP4C	Z	46.782	2.5
75	MP4C	Mx	.017	2.5
76	MP4C	X	-27.01	4.5
77	MP4C	Z	46.782	4.5
78	MP4C	Mx	.017	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	-32.97	2.5
2	MP1B	Z	19.035	2.5
3	MP1B	Mx	-.016	2.5
4	MP1B	X	-32.97	4.5
5	MP1B	Z	19.035	4.5
6	MP1B	Mx	-.016	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
7	MP2A	X	-52.206	1
8	MP2A	Z	30.141	1
9	MP2A	Mx	.045	1
10	MP2A	X	-52.206	6
11	MP2A	Z	30.141	6
12	MP2A	Mx	.045	6
13	MP2B	X	-52.206	1
14	MP2B	Z	30.141	1
15	MP2B	Mx	-.007	1
16	MP2B	X	-52.206	6
17	MP2B	Z	30.141	6
18	MP2B	Mx	-.007	6
19	MP2C	X	-89.608	1
20	MP2C	Z	51.735	1
21	MP2C	Mx	-.055	1
22	MP2C	X	-89.608	6
23	MP2C	Z	51.735	6
24	MP2C	Mx	-.055	6
25	MP2A	X	-52.206	1
26	MP2A	Z	30.141	1
27	MP2A	Mx	.007	1
28	MP2A	X	-52.206	6
29	MP2A	Z	30.141	6
30	MP2A	Mx	.007	6
31	MP2B	X	-52.206	1
32	MP2B	Z	30.141	1
33	MP2B	Mx	-.045	1
34	MP2B	X	-52.206	6
35	MP2B	Z	30.141	6
36	MP2B	Mx	-.045	6
37	MP2C	X	-89.608	1
38	MP2C	Z	51.735	1
39	MP2C	Mx	.073	1
40	MP2C	X	-89.608	6
41	MP2C	Z	51.735	6
42	MP2C	Mx	.073	6
43	MP2A	X	-33.922	.5
44	MP2A	Z	19.585	.5
45	MP2A	Mx	-.017	.5
46	MP2B	X	-33.922	.5
47	MP2B	Z	19.585	.5
48	MP2B	Mx	.017	.5
49	MP2C	X	-50.598	.5
50	MP2C	Z	29.213	.5
51	MP2C	Mx	-.005	.5
52	MP1A	X	-38.638	3.5
53	MP1A	Z	22.308	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-38.638	3.5
56	MP1B	Z	22.308	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-50.787	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1C	Z	29.322	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-65.714	2
62	OVP1	Z	37.94	2
63	OVP1	Mx	0	2
64	OVP3	X	-65.714	2
65	OVP3	Z	37.94	2
66	OVP3	Mx	0	2
67	MP4A	X	-33.794	2.5
68	MP4A	Z	19.511	2.5
69	MP4A	Mx	.017	2.5
70	MP4A	X	-33.794	4.5
71	MP4A	Z	19.511	4.5
72	MP4A	Mx	.017	4.5
73	MP4C	X	-61.551	2.5
74	MP4C	Z	35.537	2.5
75	MP4C	Mx	.006	2.5
76	MP4C	X	-61.551	4.5
77	MP4C	Z	35.537	4.5
78	MP4C	Mx	.006	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-62.623	2.5
2	MP1B	Z	0	2.5
3	MP1B	Mx	-.016	2.5
4	MP1B	X	-62.623	4.5
5	MP1B	Z	0	4.5
6	MP1B	Mx	-.016	4.5
7	MP2A	X	-45.284	1
8	MP2A	Z	0	1
9	MP2A	Mx	.023	1
10	MP2A	X	-45.284	6
11	MP2A	Z	0	6
12	MP2A	Mx	.023	6
13	MP2B	X	-90.281	1
14	MP2B	Z	0	1
15	MP2B	Mx	.026	1
16	MP2B	X	-90.281	6
17	MP2B	Z	0	6
18	MP2B	Mx	.026	6
19	MP2C	X	-98.262	1
20	MP2C	Z	0	1
21	MP2C	Mx	-.075	1
22	MP2C	X	-98.262	6
23	MP2C	Z	0	6
24	MP2C	Mx	-.075	6
25	MP2A	X	-45.284	1
26	MP2A	Z	0	1
27	MP2A	Mx	.023	1
28	MP2A	X	-45.284	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP2A	Z	0	6
30	MP2A	Mx	.023	6
31	MP2B	X	-90.281	1
32	MP2B	Z	0	1
33	MP2B	Mx	-.071	1
34	MP2B	X	-90.281	6
35	MP2B	Z	0	6
36	MP2B	Mx	-.071	6
37	MP2C	X	-98.262	1
38	MP2C	Z	0	1
39	MP2C	Mx	.041	1
40	MP2C	X	-98.262	6
41	MP2C	Z	0	6
42	MP2C	Mx	.041	6
43	MP2A	X	-32.482	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	-.016	.5
46	MP2B	X	-52.544	.5
47	MP2B	Z	0	.5
48	MP2B	Mx	.013	.5
49	MP2C	X	-56.103	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.01	.5
52	MP1A	X	-39.743	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-54.36	3.5
56	MP1B	Z	0	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-56.952	3.5
59	MP1C	Z	0	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-63.051	2
62	OVP1	Z	0	2
63	OVP1	Mx	0	2
64	OVP3	X	-63.051	2
65	OVP3	Z	0	2
66	OVP3	Mx	0	2
67	MP4A	X	-27.891	2.5
68	MP4A	Z	0	2.5
69	MP4A	Mx	.014	2.5
70	MP4A	X	-27.891	4.5
71	MP4A	Z	0	4.5
72	MP4A	Mx	.014	4.5
73	MP4C	X	-67.207	2.5
74	MP4C	Z	0	2.5
75	MP4C	Mx	-.011	2.5
76	MP4C	X	-67.207	4.5
77	MP4C	Z	0	4.5
78	MP4C	Mx	-.011	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-64.865	2.5
2	MP1B	Z	-37.45	2.5
3	MP1B	Mx	0	2.5
4	MP1B	X	-64.865	4.5
5	MP1B	Z	-37.45	4.5
6	MP1B	Mx	0	4.5
7	MP2A	X	-52.206	1
8	MP2A	Z	-30.141	1
9	MP2A	Mx	.007	1
10	MP2A	X	-52.206	6
11	MP2A	Z	-30.141	6
12	MP2A	Mx	.007	6
13	MP2B	X	-91.175	1
14	MP2B	Z	-52.64	1
15	MP2B	Mx	.066	1
16	MP2B	X	-91.175	6
17	MP2B	Z	-52.64	6
18	MP2B	Mx	.066	6
19	MP2C	X	-60.685	1
20	MP2C	Z	-35.036	1
21	MP2C	Mx	-.055	1
22	MP2C	X	-60.685	6
23	MP2C	Z	-35.036	6
24	MP2C	Mx	-.055	6
25	MP2A	X	-52.206	1
26	MP2A	Z	-30.141	1
27	MP2A	Mx	.045	1
28	MP2A	X	-52.206	6
29	MP2A	Z	-30.141	6
30	MP2A	Mx	.045	6
31	MP2B	X	-91.175	1
32	MP2B	Z	-52.64	1
33	MP2B	Mx	-.066	1
34	MP2B	X	-91.175	6
35	MP2B	Z	-52.64	6
36	MP2B	Mx	-.066	6
37	MP2C	X	-60.685	1
38	MP2C	Z	-35.036	1
39	MP2C	Mx	.001	1
40	MP2C	X	-60.685	6
41	MP2C	Z	-35.036	6
42	MP2C	Mx	.001	6
43	MP2A	X	-33.922	.5
44	MP2A	Z	-19.585	.5
45	MP2A	Mx	-.017	.5
46	MP2B	X	-51.296	.5
47	MP2B	Z	-29.616	.5
48	MP2B	Mx	0	.5
49	MP2C	X	-37.702	.5
50	MP2C	Z	-21.767	.5
51	MP2C	Mx	.017	.5
52	MP1A	X	-38.638	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
53	MP1A	Z	-22.308	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-51.296	3.5
56	MP1B	Z	-29.616	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-41.392	3.5
59	MP1C	Z	-23.898	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-57.122	2
62	OVP1	Z	-32.979	2
63	OVP1	Mx	0	2
64	OVP3	X	-57.122	2
65	OVP3	Z	-32.979	2
66	OVP3	Mx	0	2
67	MP4A	X	-33.794	2.5
68	MP4A	Z	-19.511	2.5
69	MP4A	Mx	.017	2.5
70	MP4A	X	-33.794	4.5
71	MP4A	Z	-19.511	4.5
72	MP4A	Mx	.017	4.5
73	MP4C	X	-40.086	2.5
74	MP4C	Z	-23.144	2.5
75	MP4C	Mx	-.018	2.5
76	MP4C	X	-40.086	4.5
77	MP4C	Z	-23.144	4.5
78	MP4C	Mx	-.018	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	-31.312	2.5
2	MP1B	Z	-54.234	2.5
3	MP1B	Mx	.016	2.5
4	MP1B	X	-31.312	4.5
5	MP1B	Z	-54.234	4.5
6	MP1B	Mx	.016	4.5
7	MP2A	X	-45.14	1
8	MP2A	Z	-78.186	1
9	MP2A	Mx	-.026	1
10	MP2A	X	-45.14	6
11	MP2A	Z	-78.186	6
12	MP2A	Mx	-.026	6
13	MP2B	X	-45.14	1
14	MP2B	Z	-78.186	1
15	MP2B	Mx	.071	1
16	MP2B	X	-45.14	6
17	MP2B	Z	-78.186	6
18	MP2B	Mx	.071	6
19	MP2C	X	-23.546	1
20	MP2C	Z	-40.784	1
21	MP2C	Mx	-.028	1
22	MP2C	X	-23.546	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2C	Z	-40.784	6
24	MP2C	Mx	-.028	6
25	MP2A	X	-45.14	1
26	MP2A	Z	-78.186	1
27	MP2A	Mx	.071	1
28	MP2A	X	-45.14	6
29	MP2A	Z	-78.186	6
30	MP2A	Mx	.071	6
31	MP2B	X	-45.14	1
32	MP2B	Z	-78.186	1
33	MP2B	Mx	-.026	1
34	MP2B	X	-45.14	6
35	MP2B	Z	-78.186	6
36	MP2B	Mx	-.026	6
37	MP2C	X	-23.546	1
38	MP2C	Z	-40.784	1
39	MP2C	Mx	-.018	1
40	MP2C	X	-23.546	6
41	MP2C	Z	-40.784	6
42	MP2C	Mx	-.018	6
43	MP2A	X	-26.272	.5
44	MP2A	Z	-45.505	.5
45	MP2A	Mx	-.013	.5
46	MP2B	X	-26.272	.5
47	MP2B	Z	-45.505	.5
48	MP2B	Mx	-.013	.5
49	MP2C	X	-16.644	.5
50	MP2C	Z	-28.829	.5
51	MP2C	Mx	.016	.5
52	MP1A	X	-27.18	3.5
53	MP1A	Z	-47.077	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-27.18	3.5
56	MP1B	Z	-47.077	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-20.165	3.5
59	MP1C	Z	-34.927	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-40.848	2
62	OVP1	Z	-70.751	2
63	OVP1	Mx	0	2
64	OVP3	X	-40.848	2
65	OVP3	Z	-70.751	2
66	OVP3	Mx	0	2
67	MP4A	X	-30.642	2.5
68	MP4A	Z	-53.074	2.5
69	MP4A	Mx	.015	2.5
70	MP4A	X	-30.642	4.5
71	MP4A	Z	-53.074	4.5
72	MP4A	Mx	.015	4.5
73	MP4C	X	-14.617	2.5
74	MP4C	Z	-25.317	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
75	MP4C	Mx	-.014	2.5
76	MP4C	X	-14.617	4.5
77	MP4C	Z	-25.317	4.5
78	MP4C	Mx	-.014	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	0	2.5
2	MP1B	Z	-11.378	2.5
3	MP1B	Mx	.005	2.5
4	MP1B	X	0	4.5
5	MP1B	Z	-11.378	4.5
6	MP1B	Mx	.005	4.5
7	MP2A	X	0	1
8	MP2A	Z	-32.535	1
9	MP2A	Mx	-.02	1
10	MP2A	X	0	6
11	MP2A	Z	-32.535	6
12	MP2A	Mx	-.02	6
13	MP2B	X	0	1
14	MP2B	Z	-25.264	1
15	MP2B	Mx	.019	1
16	MP2B	X	0	6
17	MP2B	Z	-25.264	6
18	MP2B	Mx	.019	6
19	MP2C	X	0	1
20	MP2C	Z	-23.974	1
21	MP2C	Mx	-.006	1
22	MP2C	X	0	6
23	MP2C	Z	-23.974	6
24	MP2C	Mx	-.006	6
25	MP2A	X	0	1
26	MP2A	Z	-32.535	1
27	MP2A	Mx	.02	1
28	MP2A	X	0	6
29	MP2A	Z	-32.535	6
30	MP2A	Mx	.02	6
31	MP2B	X	0	1
32	MP2B	Z	-25.264	1
33	MP2B	Mx	.003	1
34	MP2B	X	0	6
35	MP2B	Z	-25.264	6
36	MP2B	Mx	.003	6
37	MP2C	X	0	1
38	MP2C	Z	-23.974	1
39	MP2C	Mx	-.016	1
40	MP2C	X	0	6
41	MP2C	Z	-23.974	6
42	MP2C	Mx	-.016	6
43	MP2A	X	0	.5
44	MP2A	Z	-16.898	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	0	.5
46	MP2B	X	0	.5
47	MP2B	Z	-11.793	.5
48	MP2B	Mx	-.005	.5
49	MP2C	X	0	.5
50	MP2C	Z	-10.887	.5
51	MP2C	Mx	.005	.5
52	MP1A	X	0	3.5
53	MP1A	Z	-16.898	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	3.5
56	MP1B	Z	-13.199	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	0	3.5
59	MP1C	Z	-12.542	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	0	2
62	OVP1	Z	-21.598	2
63	OVP1	Mx	0	2
64	OVP3	X	0	2
65	OVP3	Z	-21.598	2
66	OVP3	Mx	0	2
67	MP4A	X	0	2.5
68	MP4A	Z	-16.024	2.5
69	MP4A	Mx	0	2.5
70	MP4A	X	0	4.5
71	MP4A	Z	-16.024	4.5
72	MP4A	Mx	0	4.5
73	MP4C	X	0	2.5
74	MP4C	Z	-8.102	2.5
75	MP4C	Mx	-.004	2.5
76	MP4C	X	0	4.5
77	MP4C	Z	-8.102	4.5
78	MP4C	Mx	-.004	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	4.327	2.5
2	MP1B	Z	-7.495	2.5
3	MP1B	Mx	.004	2.5
4	MP1B	X	4.327	4.5
5	MP1B	Z	-7.495	4.5
6	MP1B	Mx	.004	4.5
7	MP2A	X	15.055	1
8	MP2A	Z	-26.077	1
9	MP2A	Mx	-.024	1
10	MP2A	X	15.055	6
11	MP2A	Z	-26.077	6
12	MP2A	Mx	-.024	6
13	MP2B	X	11.42	1
14	MP2B	Z	-19.78	1



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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
15	MP2B	Mx	.011	1
16	MP2B	X	11.42	6
17	MP2B	Z	-19.78	6
18	MP2B	Mx	.011	6
19	MP2C	X	14.265	1
20	MP2C	Z	-24.707	1
21	MP2C	Mx	.004	1
22	MP2C	X	14.265	6
23	MP2C	Z	-24.707	6
24	MP2C	Mx	.004	6
25	MP2A	X	15.055	1
26	MP2A	Z	-26.077	1
27	MP2A	Mx	.009	1
28	MP2A	X	15.055	6
29	MP2A	Z	-26.077	6
30	MP2A	Mx	.009	6
31	MP2B	X	11.42	1
32	MP2B	Z	-19.78	1
33	MP2B	Mx	.011	1
34	MP2B	X	11.42	6
35	MP2B	Z	-19.78	6
36	MP2B	Mx	.011	6
37	MP2C	X	14.265	1
38	MP2C	Z	-24.707	1
39	MP2C	Mx	-.023	1
40	MP2C	X	14.265	6
41	MP2C	Z	-24.707	6
42	MP2C	Mx	-.023	6
43	MP2A	X	7.598	.5
44	MP2A	Z	-13.161	.5
45	MP2A	Mx	.004	.5
46	MP2B	X	5.045	.5
47	MP2B	Z	-8.739	.5
48	MP2B	Mx	-.005	.5
49	MP2C	X	7.043	.5
50	MP2C	Z	-12.199	.5
51	MP2C	Mx	.005	.5
52	MP1A	X	7.833	3.5
53	MP1A	Z	-13.566	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	5.983	3.5
56	MP1B	Z	-10.362	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	7.43	3.5
59	MP1C	Z	-12.869	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	10.507	2
62	OVP1	Z	-18.198	2
63	OVP1	Mx	0	2
64	OVP3	X	10.507	2
65	OVP3	Z	-18.198	2
66	OVP3	Mx	0	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP4A	X	6.891	2.5
68	MP4A	Z	-11.935	2.5
69	MP4A	Mx	-.003	2.5
70	MP4A	X	6.891	4.5
71	MP4A	Z	-11.935	4.5
72	MP4A	Mx	-.003	4.5
73	MP4C	X	6.159	2.5
74	MP4C	Z	-10.667	2.5
75	MP4C	Mx	-.004	2.5
76	MP4C	X	6.159	4.5
77	MP4C	Z	-10.667	4.5
78	MP4C	Mx	-.004	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	9.854	2.5
2	MP1B	Z	-5.689	2.5
3	MP1B	Mx	.005	2.5
4	MP1B	X	9.854	4.5
5	MP1B	Z	-5.689	4.5
6	MP1B	Mx	.005	4.5
7	MP2A	X	21.879	1
8	MP2A	Z	-12.632	1
9	MP2A	Mx	-.019	1
10	MP2A	X	21.879	6
11	MP2A	Z	-12.632	6
12	MP2A	Mx	-.019	6
13	MP2B	X	21.879	1
14	MP2B	Z	-12.632	1
15	MP2B	Mx	.003	1
16	MP2B	X	21.879	6
17	MP2B	Z	-12.632	6
18	MP2B	Mx	.003	6
19	MP2C	X	27.923	1
20	MP2C	Z	-16.121	1
21	MP2C	Mx	.017	1
22	MP2C	X	27.923	6
23	MP2C	Z	-16.121	6
24	MP2C	Mx	.017	6
25	MP2A	X	21.879	1
26	MP2A	Z	-12.632	1
27	MP2A	Mx	-.003	1
28	MP2A	X	21.879	6
29	MP2A	Z	-12.632	6
30	MP2A	Mx	-.003	6
31	MP2B	X	21.879	1
32	MP2B	Z	-12.632	1
33	MP2B	Mx	.019	1
34	MP2B	X	21.879	6
35	MP2B	Z	-12.632	6
36	MP2B	Mx	.019	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
37	MP2C	X	27.923	1
38	MP2C	Z	-16.121	1
39	MP2C	Mx	-.023	1
40	MP2C	X	27.923	6
41	MP2C	Z	-16.121	6
42	MP2C	Mx	-.023	6
43	MP2A	X	10.213	.5
44	MP2A	Z	-5.896	.5
45	MP2A	Mx	.005	.5
46	MP2B	X	10.213	.5
47	MP2B	Z	-5.896	.5
48	MP2B	Mx	-.005	.5
49	MP2C	X	14.457	.5
50	MP2C	Z	-8.347	.5
51	MP2C	Mx	.001	.5
52	MP1A	X	11.43	3.5
53	MP1A	Z	-6.599	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	11.43	3.5
56	MP1B	Z	-6.599	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	14.506	3.5
59	MP1C	Z	-8.375	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	15.456	2
62	OVP1	Z	-8.924	2
63	OVP1	Mx	0	2
64	OVP3	X	15.456	2
65	OVP3	Z	-8.924	2
66	OVP3	Mx	0	2
67	MP4A	X	8.05	2.5
68	MP4A	Z	-4.648	2.5
69	MP4A	Mx	-.004	2.5
70	MP4A	X	8.05	4.5
71	MP4A	Z	-4.648	4.5
72	MP4A	Mx	-.004	4.5
73	MP4C	X	13.643	2.5
74	MP4C	Z	-7.877	2.5
75	MP4C	Mx	-.001	2.5
76	MP4C	X	13.643	4.5
77	MP4C	Z	-7.877	4.5
78	MP4C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	16.827	2.5
2	MP1B	Z	0	2.5
3	MP1B	Mx	.004	2.5
4	MP1B	X	16.827	4.5
5	MP1B	Z	0	4.5
6	MP1B	Mx	.004	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
7	MP2A	X	22.84	1
8	MP2A	Z	0	1
9	MP2A	Mx	-.011	1
10	MP2A	X	22.84	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.011	6
13	MP2B	X	30.111	1
14	MP2B	Z	0	1
15	MP2B	Mx	-.009	1
16	MP2B	X	30.111	6
17	MP2B	Z	0	6
18	MP2B	Mx	-.009	6
19	MP2C	X	31.401	1
20	MP2C	Z	0	1
21	MP2C	Mx	.024	1
22	MP2C	X	31.401	6
23	MP2C	Z	0	6
24	MP2C	Mx	.024	6
25	MP2A	X	22.84	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.011	1
28	MP2A	X	22.84	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.011	6
31	MP2B	X	30.111	1
32	MP2B	Z	0	1
33	MP2B	Mx	.024	1
34	MP2B	X	30.111	6
35	MP2B	Z	0	6
36	MP2B	Mx	.024	6
37	MP2C	X	31.401	1
38	MP2C	Z	0	1
39	MP2C	Mx	-.013	1
40	MP2C	X	31.401	6
41	MP2C	Z	0	6
42	MP2C	Mx	-.013	6
43	MP2A	X	10.091	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	.005	.5
46	MP2B	X	15.196	.5
47	MP2B	Z	0	.5
48	MP2B	Mx	-.004	.5
49	MP2C	X	16.102	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.003	.5
52	MP1A	X	11.965	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	15.665	3.5
56	MP1B	Z	0	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	16.321	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1C	Z	0	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	15.266	2
62	OVP1	Z	0	2
63	OVP1	Mx	0	2
64	OVP3	X	15.266	2
65	OVP3	Z	0	2
66	OVP3	Mx	0	2
67	MP4A	X	7.053	2.5
68	MP4A	Z	0	2.5
69	MP4A	Mx	-.004	2.5
70	MP4A	X	7.053	4.5
71	MP4A	Z	0	4.5
72	MP4A	Mx	-.004	4.5
73	MP4C	X	14.975	2.5
74	MP4C	Z	0	2.5
75	MP4C	Mx	.003	2.5
76	MP4C	X	14.975	4.5
77	MP4C	Z	0	4.5
78	MP4C	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	16.931	2.5
2	MP1B	Z	9.775	2.5
3	MP1B	Mx	0	2.5
4	MP1B	X	16.931	4.5
5	MP1B	Z	9.775	4.5
6	MP1B	Mx	0	4.5
7	MP2A	X	21.879	1
8	MP2A	Z	12.632	1
9	MP2A	Mx	-.003	1
10	MP2A	X	21.879	6
11	MP2A	Z	12.632	6
12	MP2A	Mx	-.003	6
13	MP2B	X	28.176	1
14	MP2B	Z	16.267	1
15	MP2B	Mx	-.02	1
16	MP2B	X	28.176	6
17	MP2B	Z	16.267	6
18	MP2B	Mx	-.02	6
19	MP2C	X	23.249	1
20	MP2C	Z	13.423	1
21	MP2C	Mx	.021	1
22	MP2C	X	23.249	6
23	MP2C	Z	13.423	6
24	MP2C	Mx	.021	6
25	MP2A	X	21.879	1
26	MP2A	Z	12.632	1
27	MP2A	Mx	-.019	1
28	MP2A	X	21.879	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	12.632	6
30	MP2A	Mx	-.019	6
31	MP2B	X	28.176	1
32	MP2B	Z	16.267	1
33	MP2B	Mx	.02	1
34	MP2B	X	28.176	6
35	MP2B	Z	16.267	6
36	MP2B	Mx	.02	6
37	MP2C	X	23.249	1
38	MP2C	Z	13.423	1
39	MP2C	Mx	-.000502	1
40	MP2C	X	23.249	6
41	MP2C	Z	13.423	6
42	MP2C	Mx	-.000502	6
43	MP2A	X	10.213	.5
44	MP2A	Z	5.896	.5
45	MP2A	Mx	.005	.5
46	MP2B	X	14.634	.5
47	MP2B	Z	8.449	.5
48	MP2B	Mx	0	.5
49	MP2C	X	11.175	.5
50	MP2C	Z	6.452	.5
51	MP2C	Mx	-.005	.5
52	MP1A	X	11.43	3.5
53	MP1A	Z	6.599	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	14.634	3.5
56	MP1B	Z	8.449	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	12.127	3.5
59	MP1C	Z	7.002	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	13.728	2
62	OVP1	Z	7.926	2
63	OVP1	Mx	0	2
64	OVP3	X	13.728	2
65	OVP3	Z	7.926	2
66	OVP3	Mx	0	2
67	MP4A	X	8.05	2.5
68	MP4A	Z	4.648	2.5
69	MP4A	Mx	-.004	2.5
70	MP4A	X	8.05	4.5
71	MP4A	Z	4.648	4.5
72	MP4A	Mx	-.004	4.5
73	MP4C	X	9.318	2.5
74	MP4C	Z	5.38	2.5
75	MP4C	Mx	.004	2.5
76	MP4C	X	9.318	4.5
77	MP4C	Z	5.38	4.5
78	MP4C	Mx	.004	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	8.413	2.5
2	MP1B	Z	14.572	2.5
3	MP1B	Mx	-.004	2.5
4	MP1B	X	8.413	4.5
5	MP1B	Z	14.572	4.5
6	MP1B	Mx	-.004	4.5
7	MP2A	X	15.055	1
8	MP2A	Z	26.077	1
9	MP2A	Mx	.009	1
10	MP2A	X	15.055	6
11	MP2A	Z	26.077	6
12	MP2A	Mx	.009	6
13	MP2B	X	15.055	1
14	MP2B	Z	26.077	1
15	MP2B	Mx	-.024	1
16	MP2B	X	15.055	6
17	MP2B	Z	26.077	6
18	MP2B	Mx	-.024	6
19	MP2C	X	11.566	1
20	MP2C	Z	20.033	1
21	MP2C	Mx	.014	1
22	MP2C	X	11.566	6
23	MP2C	Z	20.033	6
24	MP2C	Mx	.014	6
25	MP2A	X	15.055	1
26	MP2A	Z	26.077	1
27	MP2A	Mx	-.024	1
28	MP2A	X	15.055	6
29	MP2A	Z	26.077	6
30	MP2A	Mx	-.024	6
31	MP2B	X	15.055	1
32	MP2B	Z	26.077	1
33	MP2B	Mx	.009	1
34	MP2B	X	15.055	6
35	MP2B	Z	26.077	6
36	MP2B	Mx	.009	6
37	MP2C	X	11.566	1
38	MP2C	Z	20.033	1
39	MP2C	Mx	.009	1
40	MP2C	X	11.566	6
41	MP2C	Z	20.033	6
42	MP2C	Mx	.009	6
43	MP2A	X	7.598	.5
44	MP2A	Z	13.161	.5
45	MP2A	Mx	.004	.5
46	MP2B	X	7.598	.5
47	MP2B	Z	13.161	.5
48	MP2B	Mx	.004	.5
49	MP2C	X	5.148	.5
50	MP2C	Z	8.917	.5
51	MP2C	Mx	-.005	.5
52	MP1A	X	7.833	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	13.566	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	7.833	3.5
56	MP1B	Z	13.566	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	6.057	3.5
59	MP1C	Z	10.491	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	9.509	2
62	OVP1	Z	16.469	2
63	OVP1	Mx	0	2
64	OVP3	X	9.509	2
65	OVP3	Z	16.469	2
66	OVP3	Mx	0	2
67	MP4A	X	6.891	2.5
68	MP4A	Z	11.935	2.5
69	MP4A	Mx	-.003	2.5
70	MP4A	X	6.891	4.5
71	MP4A	Z	11.935	4.5
72	MP4A	Mx	-.003	4.5
73	MP4C	X	3.662	2.5
74	MP4C	Z	6.342	2.5
75	MP4C	Mx	.004	2.5
76	MP4C	X	3.662	4.5
77	MP4C	Z	6.342	4.5
78	MP4C	Mx	.004	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	0	2.5
2	MP1B	Z	11.378	2.5
3	MP1B	Mx	-.005	2.5
4	MP1B	X	0	4.5
5	MP1B	Z	11.378	4.5
6	MP1B	Mx	-.005	4.5
7	MP2A	X	0	1
8	MP2A	Z	32.535	1
9	MP2A	Mx	.02	1
10	MP2A	X	0	6
11	MP2A	Z	32.535	6
12	MP2A	Mx	.02	6
13	MP2B	X	0	1
14	MP2B	Z	25.264	1
15	MP2B	Mx	-.019	1
16	MP2B	X	0	6
17	MP2B	Z	25.264	6
18	MP2B	Mx	-.019	6
19	MP2C	X	0	1
20	MP2C	Z	23.974	1
21	MP2C	Mx	.006	1
22	MP2C	X	0	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2C	Z	23.974	6
24	MP2C	Mx	.006	6
25	MP2A	X	0	1
26	MP2A	Z	32.535	1
27	MP2A	Mx	-.02	1
28	MP2A	X	0	6
29	MP2A	Z	32.535	6
30	MP2A	Mx	-.02	6
31	MP2B	X	0	1
32	MP2B	Z	25.264	1
33	MP2B	Mx	-.003	1
34	MP2B	X	0	6
35	MP2B	Z	25.264	6
36	MP2B	Mx	-.003	6
37	MP2C	X	0	1
38	MP2C	Z	23.974	1
39	MP2C	Mx	.016	1
40	MP2C	X	0	6
41	MP2C	Z	23.974	6
42	MP2C	Mx	.016	6
43	MP2A	X	0	.5
44	MP2A	Z	16.898	.5
45	MP2A	Mx	0	.5
46	MP2B	X	0	.5
47	MP2B	Z	11.793	.5
48	MP2B	Mx	.005	.5
49	MP2C	X	0	.5
50	MP2C	Z	10.887	.5
51	MP2C	Mx	-.005	.5
52	MP1A	X	0	3.5
53	MP1A	Z	16.898	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	3.5
56	MP1B	Z	13.199	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	0	3.5
59	MP1C	Z	12.542	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	0	2
62	OVP1	Z	21.598	2
63	OVP1	Mx	0	2
64	OVP3	X	0	2
65	OVP3	Z	21.598	2
66	OVP3	Mx	0	2
67	MP4A	X	0	2.5
68	MP4A	Z	16.024	2.5
69	MP4A	Mx	0	2.5
70	MP4A	X	0	4.5
71	MP4A	Z	16.024	4.5
72	MP4A	Mx	0	4.5
73	MP4C	X	0	2.5
74	MP4C	Z	8.102	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP4C	Mx	.004	2.5
76	MP4C	X	0	4.5
77	MP4C	Z	8.102	4.5
78	MP4C	Mx	.004	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-4.327	2.5
2	MP1B	Z	7.495	2.5
3	MP1B	Mx	-.004	2.5
4	MP1B	X	-4.327	4.5
5	MP1B	Z	7.495	4.5
6	MP1B	Mx	-.004	4.5
7	MP2A	X	-15.055	1
8	MP2A	Z	26.077	1
9	MP2A	Mx	.024	1
10	MP2A	X	-15.055	6
11	MP2A	Z	26.077	6
12	MP2A	Mx	.024	6
13	MP2B	X	-11.42	1
14	MP2B	Z	19.78	1
15	MP2B	Mx	-.011	1
16	MP2B	X	-11.42	6
17	MP2B	Z	19.78	6
18	MP2B	Mx	-.011	6
19	MP2C	X	-14.265	1
20	MP2C	Z	24.707	1
21	MP2C	Mx	-.004	1
22	MP2C	X	-14.265	6
23	MP2C	Z	24.707	6
24	MP2C	Mx	-.004	6
25	MP2A	X	-15.055	1
26	MP2A	Z	26.077	1
27	MP2A	Mx	-.009	1
28	MP2A	X	-15.055	6
29	MP2A	Z	26.077	6
30	MP2A	Mx	-.009	6
31	MP2B	X	-11.42	1
32	MP2B	Z	19.78	1
33	MP2B	Mx	-.011	1
34	MP2B	X	-11.42	6
35	MP2B	Z	19.78	6
36	MP2B	Mx	-.011	6
37	MP2C	X	-14.265	1
38	MP2C	Z	24.707	1
39	MP2C	Mx	.023	1
40	MP2C	X	-14.265	6
41	MP2C	Z	24.707	6
42	MP2C	Mx	.023	6
43	MP2A	X	-7.598	.5
44	MP2A	Z	13.161	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	-.004	.5
46	MP2B	X	-5.045	.5
47	MP2B	Z	8.739	.5
48	MP2B	Mx	.005	.5
49	MP2C	X	-7.043	.5
50	MP2C	Z	12.199	.5
51	MP2C	Mx	-.005	.5
52	MP1A	X	-7.833	3.5
53	MP1A	Z	13.566	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-5.983	3.5
56	MP1B	Z	10.362	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-7.43	3.5
59	MP1C	Z	12.869	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-10.507	2
62	OVP1	Z	18.198	2
63	OVP1	Mx	0	2
64	OVP3	X	-10.507	2
65	OVP3	Z	18.198	2
66	OVP3	Mx	0	2
67	MP4A	X	-6.891	2.5
68	MP4A	Z	11.935	2.5
69	MP4A	Mx	.003	2.5
70	MP4A	X	-6.891	4.5
71	MP4A	Z	11.935	4.5
72	MP4A	Mx	.003	4.5
73	MP4C	X	-6.159	2.5
74	MP4C	Z	10.667	2.5
75	MP4C	Mx	.004	2.5
76	MP4C	X	-6.159	4.5
77	MP4C	Z	10.667	4.5
78	MP4C	Mx	.004	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-9.854	2.5
2	MP1B	Z	5.689	2.5
3	MP1B	Mx	-.005	2.5
4	MP1B	X	-9.854	4.5
5	MP1B	Z	5.689	4.5
6	MP1B	Mx	-.005	4.5
7	MP2A	X	-21.879	1
8	MP2A	Z	12.632	1
9	MP2A	Mx	.019	1
10	MP2A	X	-21.879	6
11	MP2A	Z	12.632	6
12	MP2A	Mx	.019	6
13	MP2B	X	-21.879	1
14	MP2B	Z	12.632	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mx	-.003	1
16	MP2B	X	-21.879	6
17	MP2B	Z	12.632	6
18	MP2B	Mx	-.003	6
19	MP2C	X	-27.923	1
20	MP2C	Z	16.121	1
21	MP2C	Mx	-.017	1
22	MP2C	X	-27.923	6
23	MP2C	Z	16.121	6
24	MP2C	Mx	-.017	6
25	MP2A	X	-21.879	1
26	MP2A	Z	12.632	1
27	MP2A	Mx	.003	1
28	MP2A	X	-21.879	6
29	MP2A	Z	12.632	6
30	MP2A	Mx	.003	6
31	MP2B	X	-21.879	1
32	MP2B	Z	12.632	1
33	MP2B	Mx	-.019	1
34	MP2B	X	-21.879	6
35	MP2B	Z	12.632	6
36	MP2B	Mx	-.019	6
37	MP2C	X	-27.923	1
38	MP2C	Z	16.121	1
39	MP2C	Mx	.023	1
40	MP2C	X	-27.923	6
41	MP2C	Z	16.121	6
42	MP2C	Mx	.023	6
43	MP2A	X	-10.213	.5
44	MP2A	Z	5.896	.5
45	MP2A	Mx	-.005	.5
46	MP2B	X	-10.213	.5
47	MP2B	Z	5.896	.5
48	MP2B	Mx	.005	.5
49	MP2C	X	-14.457	.5
50	MP2C	Z	8.347	.5
51	MP2C	Mx	-.001	.5
52	MP1A	X	-11.43	3.5
53	MP1A	Z	6.599	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-11.43	3.5
56	MP1B	Z	6.599	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-14.506	3.5
59	MP1C	Z	8.375	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-15.456	2
62	OVP1	Z	8.924	2
63	OVP1	Mx	0	2
64	OVP3	X	-15.456	2
65	OVP3	Z	8.924	2
66	OVP3	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
67	MP4A	X	-8.05	2.5
68	MP4A	Z	4.648	2.5
69	MP4A	Mx	.004	2.5
70	MP4A	X	-8.05	4.5
71	MP4A	Z	4.648	4.5
72	MP4A	Mx	.004	4.5
73	MP4C	X	-13.643	2.5
74	MP4C	Z	7.877	2.5
75	MP4C	Mx	.001	2.5
76	MP4C	X	-13.643	4.5
77	MP4C	Z	7.877	4.5
78	MP4C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	-16.827	2.5
2	MP1B	Z	0	2.5
3	MP1B	Mx	-.004	2.5
4	MP1B	X	-16.827	4.5
5	MP1B	Z	0	4.5
6	MP1B	Mx	-.004	4.5
7	MP2A	X	-22.84	1
8	MP2A	Z	0	1
9	MP2A	Mx	.011	1
10	MP2A	X	-22.84	6
11	MP2A	Z	0	6
12	MP2A	Mx	.011	6
13	MP2B	X	-30.111	1
14	MP2B	Z	0	1
15	MP2B	Mx	.009	1
16	MP2B	X	-30.111	6
17	MP2B	Z	0	6
18	MP2B	Mx	.009	6
19	MP2C	X	-31.401	1
20	MP2C	Z	0	1
21	MP2C	Mx	-.024	1
22	MP2C	X	-31.401	6
23	MP2C	Z	0	6
24	MP2C	Mx	-.024	6
25	MP2A	X	-22.84	1
26	MP2A	Z	0	1
27	MP2A	Mx	.011	1
28	MP2A	X	-22.84	6
29	MP2A	Z	0	6
30	MP2A	Mx	.011	6
31	MP2B	X	-30.111	1
32	MP2B	Z	0	1
33	MP2B	Mx	-.024	1
34	MP2B	X	-30.111	6
35	MP2B	Z	0	6
36	MP2B	Mx	-.024	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2C	X	-31.401	1
38	MP2C	Z	0	1
39	MP2C	Mx	.013	1
40	MP2C	X	-31.401	6
41	MP2C	Z	0	6
42	MP2C	Mx	.013	6
43	MP2A	X	-10.091	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	-.005	.5
46	MP2B	X	-15.196	.5
47	MP2B	Z	0	.5
48	MP2B	Mx	.004	.5
49	MP2C	X	-16.102	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.003	.5
52	MP1A	X	-11.965	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-15.665	3.5
56	MP1B	Z	0	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-16.321	3.5
59	MP1C	Z	0	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-15.266	2
62	OVP1	Z	0	2
63	OVP1	Mx	0	2
64	OVP3	X	-15.266	2
65	OVP3	Z	0	2
66	OVP3	Mx	0	2
67	MP4A	X	-7.053	2.5
68	MP4A	Z	0	2.5
69	MP4A	Mx	.004	2.5
70	MP4A	X	-7.053	4.5
71	MP4A	Z	0	4.5
72	MP4A	Mx	.004	4.5
73	MP4C	X	-14.975	2.5
74	MP4C	Z	0	2.5
75	MP4C	Mx	-.003	2.5
76	MP4C	X	-14.975	4.5
77	MP4C	Z	0	4.5
78	MP4C	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-16.931	2.5
2	MP1B	Z	-9.775	2.5
3	MP1B	Mx	0	2.5
4	MP1B	X	-16.931	4.5
5	MP1B	Z	-9.775	4.5
6	MP1B	Mx	0	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
7	MP2A	X	-21.879	1
8	MP2A	Z	-12.632	1
9	MP2A	Mx	.003	1
10	MP2A	X	-21.879	6
11	MP2A	Z	-12.632	6
12	MP2A	Mx	.003	6
13	MP2B	X	-28.176	1
14	MP2B	Z	-16.267	1
15	MP2B	Mx	.02	1
16	MP2B	X	-28.176	6
17	MP2B	Z	-16.267	6
18	MP2B	Mx	.02	6
19	MP2C	X	-23.249	1
20	MP2C	Z	-13.423	1
21	MP2C	Mx	-.021	1
22	MP2C	X	-23.249	6
23	MP2C	Z	-13.423	6
24	MP2C	Mx	-.021	6
25	MP2A	X	-21.879	1
26	MP2A	Z	-12.632	1
27	MP2A	Mx	.019	1
28	MP2A	X	-21.879	6
29	MP2A	Z	-12.632	6
30	MP2A	Mx	.019	6
31	MP2B	X	-28.176	1
32	MP2B	Z	-16.267	1
33	MP2B	Mx	-.02	1
34	MP2B	X	-28.176	6
35	MP2B	Z	-16.267	6
36	MP2B	Mx	-.02	6
37	MP2C	X	-23.249	1
38	MP2C	Z	-13.423	1
39	MP2C	Mx	.000502	1
40	MP2C	X	-23.249	6
41	MP2C	Z	-13.423	6
42	MP2C	Mx	.000502	6
43	MP2A	X	-10.213	.5
44	MP2A	Z	-5.896	.5
45	MP2A	Mx	-.005	.5
46	MP2B	X	-14.634	.5
47	MP2B	Z	-8.449	.5
48	MP2B	Mx	0	.5
49	MP2C	X	-11.175	.5
50	MP2C	Z	-6.452	.5
51	MP2C	Mx	.005	.5
52	MP1A	X	-11.43	3.5
53	MP1A	Z	-6.599	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-14.634	3.5
56	MP1B	Z	-8.449	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-12.127	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1C	Z	-7.002	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-13.728	2
62	OVP1	Z	-7.926	2
63	OVP1	Mx	0	2
64	OVP3	X	-13.728	2
65	OVP3	Z	-7.926	2
66	OVP3	Mx	0	2
67	MP4A	X	-8.05	2.5
68	MP4A	Z	-4.648	2.5
69	MP4A	Mx	.004	2.5
70	MP4A	X	-8.05	4.5
71	MP4A	Z	-4.648	4.5
72	MP4A	Mx	.004	4.5
73	MP4C	X	-9.318	2.5
74	MP4C	Z	-5.38	2.5
75	MP4C	Mx	-.004	2.5
76	MP4C	X	-9.318	4.5
77	MP4C	Z	-5.38	4.5
78	MP4C	Mx	-.004	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-8.413	2.5
2	MP1B	Z	-14.572	2.5
3	MP1B	Mx	.004	2.5
4	MP1B	X	-8.413	4.5
5	MP1B	Z	-14.572	4.5
6	MP1B	Mx	.004	4.5
7	MP2A	X	-15.055	1
8	MP2A	Z	-26.077	1
9	MP2A	Mx	-.009	1
10	MP2A	X	-15.055	6
11	MP2A	Z	-26.077	6
12	MP2A	Mx	-.009	6
13	MP2B	X	-15.055	1
14	MP2B	Z	-26.077	1
15	MP2B	Mx	.024	1
16	MP2B	X	-15.055	6
17	MP2B	Z	-26.077	6
18	MP2B	Mx	.024	6
19	MP2C	X	-11.566	1
20	MP2C	Z	-20.033	1
21	MP2C	Mx	-.014	1
22	MP2C	X	-11.566	6
23	MP2C	Z	-20.033	6
24	MP2C	Mx	-.014	6
25	MP2A	X	-15.055	1
26	MP2A	Z	-26.077	1
27	MP2A	Mx	.024	1
28	MP2A	X	-15.055	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
29	MP2A	Z	-26.077	6
30	MP2A	Mx	.024	6
31	MP2B	X	-15.055	1
32	MP2B	Z	-26.077	1
33	MP2B	Mx	-.009	1
34	MP2B	X	-15.055	6
35	MP2B	Z	-26.077	6
36	MP2B	Mx	-.009	6
37	MP2C	X	-11.566	1
38	MP2C	Z	-20.033	1
39	MP2C	Mx	-.009	1
40	MP2C	X	-11.566	6
41	MP2C	Z	-20.033	6
42	MP2C	Mx	-.009	6
43	MP2A	X	-7.598	.5
44	MP2A	Z	-13.161	.5
45	MP2A	Mx	-.004	.5
46	MP2B	X	-7.598	.5
47	MP2B	Z	-13.161	.5
48	MP2B	Mx	-.004	.5
49	MP2C	X	-5.148	.5
50	MP2C	Z	-8.917	.5
51	MP2C	Mx	.005	.5
52	MP1A	X	-7.833	3.5
53	MP1A	Z	-13.566	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-7.833	3.5
56	MP1B	Z	-13.566	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-6.057	3.5
59	MP1C	Z	-10.491	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-9.509	2
62	OVP1	Z	-16.469	2
63	OVP1	Mx	0	2
64	OVP3	X	-9.509	2
65	OVP3	Z	-16.469	2
66	OVP3	Mx	0	2
67	MP4A	X	-6.891	2.5
68	MP4A	Z	-11.935	2.5
69	MP4A	Mx	.003	2.5
70	MP4A	X	-6.891	4.5
71	MP4A	Z	-11.935	4.5
72	MP4A	Mx	.003	4.5
73	MP4C	X	-3.662	2.5
74	MP4C	Z	-6.342	2.5
75	MP4C	Mx	-.004	2.5
76	MP4C	X	-3.662	4.5
77	MP4C	Z	-6.342	4.5
78	MP4C	Mx	-.004	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	0	2.5
2	MP1B	Z	-2.503	2.5
3	MP1B	Mx	.001	2.5
4	MP1B	X	0	4.5
5	MP1B	Z	-2.503	4.5
6	MP1B	Mx	.001	4.5
7	MP2A	X	0	1
8	MP2A	Z	-6.922	1
9	MP2A	Mx	-.004	1
10	MP2A	X	0	6
11	MP2A	Z	-6.922	6
12	MP2A	Mx	-.004	6
13	MP2B	X	0	1
14	MP2B	Z	-3.963	1
15	MP2B	Mx	.003	1
16	MP2B	X	0	6
17	MP2B	Z	-3.963	6
18	MP2B	Mx	.003	6
19	MP2C	X	0	1
20	MP2C	Z	-3.439	1
21	MP2C	Mx	-.000881	1
22	MP2C	X	0	6
23	MP2C	Z	-3.439	6
24	MP2C	Mx	-.000881	6
25	MP2A	X	0	1
26	MP2A	Z	-6.922	1
27	MP2A	Mx	.004	1
28	MP2A	X	0	6
29	MP2A	Z	-6.922	6
30	MP2A	Mx	.004	6
31	MP2B	X	0	1
32	MP2B	Z	-3.963	1
33	MP2B	Mx	.000478	1
34	MP2B	X	0	6
35	MP2B	Z	-3.963	6
36	MP2B	Mx	.000478	6
37	MP2C	X	0	1
38	MP2C	Z	-3.439	1
39	MP2C	Mx	-.002	1
40	MP2C	X	0	6
41	MP2C	Z	-3.439	6
42	MP2C	Mx	-.002	6
43	MP2A	X	0	.5
44	MP2A	Z	-3.894	.5
45	MP2A	Mx	0	.5
46	MP2B	X	0	.5
47	MP2B	Z	-2.575	.5
48	MP2B	Mx	-.001	.5
49	MP2C	X	0	.5
50	MP2C	Z	-2.341	.5
51	MP2C	Mx	.001	.5
52	MP1A	X	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	-3.894	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	3.5
56	MP1B	Z	-2.933	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	0	3.5
59	MP1C	Z	-2.763	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	0	2
62	OVP1	Z	-6.215	2
63	OVP1	Mx	0	2
64	OVP3	X	0	2
65	OVP3	Z	-6.215	2
66	OVP3	Mx	0	2
67	MP4A	X	0	2.5
68	MP4A	Z	-4.761	2.5
69	MP4A	Mx	0	2.5
70	MP4A	X	0	4.5
71	MP4A	Z	-4.761	4.5
72	MP4A	Mx	0	4.5
73	MP4C	X	0	2.5
74	MP4C	Z	-2.176	2.5
75	MP4C	Mx	-.001	2.5
76	MP4C	X	0	4.5
77	MP4C	Z	-2.176	4.5
78	MP4C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	.848	2.5
2	MP1B	Z	-1.469	2.5
3	MP1B	Mx	.000848	2.5
4	MP1B	X	.848	4.5
5	MP1B	Z	-1.469	4.5
6	MP1B	Mx	.000848	4.5
7	MP2A	X	2.968	1
8	MP2A	Z	-5.14	1
9	MP2A	Mx	-.005	1
10	MP2A	X	2.968	6
11	MP2A	Z	-5.14	6
12	MP2A	Mx	-.005	6
13	MP2B	X	1.489	1
14	MP2B	Z	-2.578	1
15	MP2B	Mx	.001	1
16	MP2B	X	1.489	6
17	MP2B	Z	-2.578	6
18	MP2B	Mx	.001	6
19	MP2C	X	2.646	1
20	MP2C	Z	-4.583	1
21	MP2C	Mx	.000833	1
22	MP2C	X	2.646	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2C	Z	-4.583	6
24	MP2C	Mx	.000833	6
25	MP2A	X	2.968	1
26	MP2A	Z	-5.14	1
27	MP2A	Mx	.002	1
28	MP2A	X	2.968	6
29	MP2A	Z	-5.14	6
30	MP2A	Mx	.002	6
31	MP2B	X	1.489	1
32	MP2B	Z	-2.578	1
33	MP2B	Mx	.001	1
34	MP2B	X	1.489	6
35	MP2B	Z	-2.578	6
36	MP2B	Mx	.001	6
37	MP2C	X	2.646	1
38	MP2C	Z	-4.583	1
39	MP2C	Mx	-.004	1
40	MP2C	X	2.646	6
41	MP2C	Z	-4.583	6
42	MP2C	Mx	-.004	6
43	MP2A	X	1.727	.5
44	MP2A	Z	-2.992	.5
45	MP2A	Mx	.000864	.5
46	MP2B	X	1.068	.5
47	MP2B	Z	-1.849	.5
48	MP2B	Mx	-.001	.5
49	MP2C	X	1.584	.5
50	MP2C	Z	-2.743	.5
51	MP2C	Mx	.001	.5
52	MP1A	X	1.787	3.5
53	MP1A	Z	-3.095	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	1.306	3.5
56	MP1B	Z	-2.263	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	1.682	3.5
59	MP1C	Z	-2.914	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	3.012	2
62	OVP1	Z	-5.216	2
63	OVP1	Mx	0	2
64	OVP3	X	3.012	2
65	OVP3	Z	-5.216	2
66	OVP3	Mx	0	2
67	MP4A	X	2.015	2.5
68	MP4A	Z	-3.489	2.5
69	MP4A	Mx	-.001	2.5
70	MP4A	X	2.015	4.5
71	MP4A	Z	-3.489	4.5
72	MP4A	Mx	-.001	4.5
73	MP4C	X	1.776	2.5
74	MP4C	Z	-3.076	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
75	MP4C	Mx	-.001	2.5
76	MP4C	X	1.776	4.5
77	MP4C	Z	-3.076	4.5
78	MP4C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	2.168	2.5
2	MP1B	Z	-1.252	2.5
3	MP1B	Mx	.001	2.5
4	MP1B	X	2.168	4.5
5	MP1B	Z	-1.252	4.5
6	MP1B	Mx	.001	4.5
7	MP2A	X	3.432	1
8	MP2A	Z	-1.982	1
9	MP2A	Mx	-.003	1
10	MP2A	X	3.432	6
11	MP2A	Z	-1.982	6
12	MP2A	Mx	-.003	6
13	MP2B	X	3.432	1
14	MP2B	Z	-1.982	1
15	MP2B	Mx	.000478	1
16	MP2B	X	3.432	6
17	MP2B	Z	-1.982	6
18	MP2B	Mx	.000478	6
19	MP2C	X	5.891	1
20	MP2C	Z	-3.401	1
21	MP2C	Mx	.004	1
22	MP2C	X	5.891	6
23	MP2C	Z	-3.401	6
24	MP2C	Mx	.004	6
25	MP2A	X	3.432	1
26	MP2A	Z	-1.982	1
27	MP2A	Mx	-.000477	1
28	MP2A	X	3.432	6
29	MP2A	Z	-1.982	6
30	MP2A	Mx	-.000477	6
31	MP2B	X	3.432	1
32	MP2B	Z	-1.982	1
33	MP2B	Mx	.003	1
34	MP2B	X	3.432	6
35	MP2B	Z	-1.982	6
36	MP2B	Mx	.003	6
37	MP2C	X	5.891	1
38	MP2C	Z	-3.401	1
39	MP2C	Mx	-.005	1
40	MP2C	X	5.891	6
41	MP2C	Z	-3.401	6
42	MP2C	Mx	-.005	6
43	MP2A	X	2.23	.5
44	MP2A	Z	-1.288	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	.001	.5
46	MP2B	X	2.23	.5
47	MP2B	Z	-1.288	.5
48	MP2B	Mx	-.001	.5
49	MP2C	X	3.327	.5
50	MP2C	Z	-1.921	.5
51	MP2C	Mx	.000334	.5
52	MP1A	X	2.54	3.5
53	MP1A	Z	-1.467	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	2.54	3.5
56	MP1B	Z	-1.467	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	3.339	3.5
59	MP1C	Z	-1.928	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	4.32	2
62	OVP1	Z	-2.494	2
63	OVP1	Mx	0	2
64	OVP3	X	4.32	2
65	OVP3	Z	-2.494	2
66	OVP3	Mx	0	2
67	MP4A	X	2.222	2.5
68	MP4A	Z	-1.283	2.5
69	MP4A	Mx	-.001	2.5
70	MP4A	X	2.222	4.5
71	MP4A	Z	-1.283	4.5
72	MP4A	Mx	-.001	4.5
73	MP4C	X	4.047	2.5
74	MP4C	Z	-2.336	2.5
75	MP4C	Mx	-.000405	2.5
76	MP4C	X	4.047	4.5
77	MP4C	Z	-2.336	4.5
78	MP4C	Mx	-.000405	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	4.117	2.5
2	MP1B	Z	0	2.5
3	MP1B	Mx	.001	2.5
4	MP1B	X	4.117	4.5
5	MP1B	Z	0	4.5
6	MP1B	Mx	.001	4.5
7	MP2A	X	2.977	1
8	MP2A	Z	0	1
9	MP2A	Mx	-.001	1
10	MP2A	X	2.977	6
11	MP2A	Z	0	6
12	MP2A	Mx	-.001	6
13	MP2B	X	5.936	1
14	MP2B	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2B	Mx	-.002	1
16	MP2B	X	5.936	6
17	MP2B	Z	0	6
18	MP2B	Mx	-.002	6
19	MP2C	X	6.46	1
20	MP2C	Z	0	1
21	MP2C	Mx	.005	1
22	MP2C	X	6.46	6
23	MP2C	Z	0	6
24	MP2C	Mx	.005	6
25	MP2A	X	2.977	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.001	1
28	MP2A	X	2.977	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.001	6
31	MP2B	X	5.936	1
32	MP2B	Z	0	1
33	MP2B	Mx	.005	1
34	MP2B	X	5.936	6
35	MP2B	Z	0	6
36	MP2B	Mx	.005	6
37	MP2C	X	6.46	1
38	MP2C	Z	0	1
39	MP2C	Mx	-.003	1
40	MP2C	X	6.46	6
41	MP2C	Z	0	6
42	MP2C	Mx	-.003	6
43	MP2A	X	2.136	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	.001	.5
46	MP2B	X	3.455	.5
47	MP2B	Z	0	.5
48	MP2B	Mx	-.000864	.5
49	MP2C	X	3.689	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.000631	.5
52	MP1A	X	2.613	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	3.574	3.5
56	MP1B	Z	0	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	3.744	3.5
59	MP1C	Z	0	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	4.145	2
62	OVP1	Z	0	2
63	OVP1	Mx	0	2
64	OVP3	X	4.145	2
65	OVP3	Z	0	2
66	OVP3	Mx	0	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP4A	X	1.834	2.5
68	MP4A	Z	0	2.5
69	MP4A	Mx	-.000917	2.5
70	MP4A	X	1.834	4.5
71	MP4A	Z	0	4.5
72	MP4A	Mx	-.000917	4.5
73	MP4C	X	4.419	2.5
74	MP4C	Z	0	2.5
75	MP4C	Mx	.000756	2.5
76	MP4C	X	4.419	4.5
77	MP4C	Z	0	4.5
78	MP4C	Mx	.000756	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	4.265	2.5
2	MP1B	Z	2.462	2.5
3	MP1B	Mx	0	2.5
4	MP1B	X	4.265	4.5
5	MP1B	Z	2.462	4.5
6	MP1B	Mx	0	4.5
7	MP2A	X	3.432	1
8	MP2A	Z	1.982	1
9	MP2A	Mx	-.000477	1
10	MP2A	X	3.432	6
11	MP2A	Z	1.982	6
12	MP2A	Mx	-.000477	6
13	MP2B	X	5.994	1
14	MP2B	Z	3.461	1
15	MP2B	Mx	-.004	1
16	MP2B	X	5.994	6
17	MP2B	Z	3.461	6
18	MP2B	Mx	-.004	6
19	MP2C	X	3.99	1
20	MP2C	Z	2.304	1
21	MP2C	Mx	.004	1
22	MP2C	X	3.99	6
23	MP2C	Z	2.304	6
24	MP2C	Mx	.004	6
25	MP2A	X	3.432	1
26	MP2A	Z	1.982	1
27	MP2A	Mx	-.003	1
28	MP2A	X	3.432	6
29	MP2A	Z	1.982	6
30	MP2A	Mx	-.003	6
31	MP2B	X	5.994	1
32	MP2B	Z	3.461	1
33	MP2B	Mx	.004	1
34	MP2B	X	5.994	6
35	MP2B	Z	3.461	6
36	MP2B	Mx	.004	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
37	MP2C	X	3.99	1
38	MP2C	Z	2.304	1
39	MP2C	Mx	-8.6e-5	1
40	MP2C	X	3.99	6
41	MP2C	Z	2.304	6
42	MP2C	Mx	-8.6e-5	6
43	MP2A	X	2.23	.5
44	MP2A	Z	1.288	.5
45	MP2A	Mx	.001	.5
46	MP2B	X	3.373	.5
47	MP2B	Z	1.947	.5
48	MP2B	Mx	0	.5
49	MP2C	X	2.479	.5
50	MP2C	Z	1.431	.5
51	MP2C	Mx	-.001	.5
52	MP1A	X	2.54	3.5
53	MP1A	Z	1.467	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	3.373	3.5
56	MP1B	Z	1.947	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	2.721	3.5
59	MP1C	Z	1.571	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	3.756	2
62	OVP1	Z	2.168	2
63	OVP1	Mx	0	2
64	OVP3	X	3.756	2
65	OVP3	Z	2.168	2
66	OVP3	Mx	0	2
67	MP4A	X	2.222	2.5
68	MP4A	Z	1.283	2.5
69	MP4A	Mx	-.001	2.5
70	MP4A	X	2.222	4.5
71	MP4A	Z	1.283	4.5
72	MP4A	Mx	-.001	4.5
73	MP4C	X	2.636	2.5
74	MP4C	Z	1.522	2.5
75	MP4C	Mx	.001	2.5
76	MP4C	X	2.636	4.5
77	MP4C	Z	1.522	4.5
78	MP4C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	2.059	2.5
2	MP1B	Z	3.566	2.5
3	MP1B	Mx	-.001	2.5
4	MP1B	X	2.059	4.5
5	MP1B	Z	3.566	4.5
6	MP1B	Mx	-.001	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	2.968	1
8	MP2A	Z	5.14	1
9	MP2A	Mx	.002	1
10	MP2A	X	2.968	6
11	MP2A	Z	5.14	6
12	MP2A	Mx	.002	6
13	MP2B	X	2.968	1
14	MP2B	Z	5.14	1
15	MP2B	Mx	-.005	1
16	MP2B	X	2.968	6
17	MP2B	Z	5.14	6
18	MP2B	Mx	-.005	6
19	MP2C	X	1.548	1
20	MP2C	Z	2.681	1
21	MP2C	Mx	.002	1
22	MP2C	X	1.548	6
23	MP2C	Z	2.681	6
24	MP2C	Mx	.002	6
25	MP2A	X	2.968	1
26	MP2A	Z	5.14	1
27	MP2A	Mx	-.005	1
28	MP2A	X	2.968	6
29	MP2A	Z	5.14	6
30	MP2A	Mx	-.005	6
31	MP2B	X	2.968	1
32	MP2B	Z	5.14	1
33	MP2B	Mx	.002	1
34	MP2B	X	2.968	6
35	MP2B	Z	5.14	6
36	MP2B	Mx	.002	6
37	MP2C	X	1.548	1
38	MP2C	Z	2.681	1
39	MP2C	Mx	.001	1
40	MP2C	X	1.548	6
41	MP2C	Z	2.681	6
42	MP2C	Mx	.001	6
43	MP2A	X	1.727	.5
44	MP2A	Z	2.992	.5
45	MP2A	Mx	.000864	.5
46	MP2B	X	1.727	.5
47	MP2B	Z	2.992	.5
48	MP2B	Mx	.000864	.5
49	MP2C	X	1.094	.5
50	MP2C	Z	1.895	.5
51	MP2C	Mx	-.001	.5
52	MP1A	X	1.787	3.5
53	MP1A	Z	3.095	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	1.787	3.5
56	MP1B	Z	3.095	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	1.326	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1C	Z	2.296	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	2.686	2
62	OVP1	Z	4.652	2
63	OVP1	Mx	0	2
64	OVP3	X	2.686	2
65	OVP3	Z	4.652	2
66	OVP3	Mx	0	2
67	MP4A	X	2.015	2.5
68	MP4A	Z	3.489	2.5
69	MP4A	Mx	-.001	2.5
70	MP4A	X	2.015	4.5
71	MP4A	Z	3.489	4.5
72	MP4A	Mx	-.001	4.5
73	MP4C	X	.961	2.5
74	MP4C	Z	1.664	2.5
75	MP4C	Mx	.000946	2.5
76	MP4C	X	.961	4.5
77	MP4C	Z	1.664	4.5
78	MP4C	Mx	.000946	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	0	2.5
2	MP1B	Z	2.503	2.5
3	MP1B	Mx	-.001	2.5
4	MP1B	X	0	4.5
5	MP1B	Z	2.503	4.5
6	MP1B	Mx	-.001	4.5
7	MP2A	X	0	1
8	MP2A	Z	6.922	1
9	MP2A	Mx	.004	1
10	MP2A	X	0	6
11	MP2A	Z	6.922	6
12	MP2A	Mx	.004	6
13	MP2B	X	0	1
14	MP2B	Z	3.963	1
15	MP2B	Mx	-.003	1
16	MP2B	X	0	6
17	MP2B	Z	3.963	6
18	MP2B	Mx	-.003	6
19	MP2C	X	0	1
20	MP2C	Z	3.439	1
21	MP2C	Mx	.000881	1
22	MP2C	X	0	6
23	MP2C	Z	3.439	6
24	MP2C	Mx	.000881	6
25	MP2A	X	0	1
26	MP2A	Z	6.922	1
27	MP2A	Mx	-.004	1
28	MP2A	X	0	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	6.922	6
30	MP2A	Mx	-.004	6
31	MP2B	X	0	1
32	MP2B	Z	3.963	1
33	MP2B	Mx	-.000478	1
34	MP2B	X	0	6
35	MP2B	Z	3.963	6
36	MP2B	Mx	-.000478	6
37	MP2C	X	0	1
38	MP2C	Z	3.439	1
39	MP2C	Mx	.002	1
40	MP2C	X	0	6
41	MP2C	Z	3.439	6
42	MP2C	Mx	.002	6
43	MP2A	X	0	.5
44	MP2A	Z	3.894	.5
45	MP2A	Mx	0	.5
46	MP2B	X	0	.5
47	MP2B	Z	2.575	.5
48	MP2B	Mx	.001	.5
49	MP2C	X	0	.5
50	MP2C	Z	2.341	.5
51	MP2C	Mx	-.001	.5
52	MP1A	X	0	3.5
53	MP1A	Z	3.894	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	3.5
56	MP1B	Z	2.933	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	0	3.5
59	MP1C	Z	2.763	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	0	2
62	OVP1	Z	6.215	2
63	OVP1	Mx	0	2
64	OVP3	X	0	2
65	OVP3	Z	6.215	2
66	OVP3	Mx	0	2
67	MP4A	X	0	2.5
68	MP4A	Z	4.761	2.5
69	MP4A	Mx	0	2.5
70	MP4A	X	0	4.5
71	MP4A	Z	4.761	4.5
72	MP4A	Mx	0	4.5
73	MP4C	X	0	2.5
74	MP4C	Z	2.176	2.5
75	MP4C	Mx	.001	2.5
76	MP4C	X	0	4.5
77	MP4C	Z	2.176	4.5
78	MP4C	Mx	.001	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	- .848	2.5
2	MP1B	Z	1.469	2.5
3	MP1B	Mx	-.000848	2.5
4	MP1B	X	- .848	4.5
5	MP1B	Z	1.469	4.5
6	MP1B	Mx	-.000848	4.5
7	MP2A	X	-2.968	1
8	MP2A	Z	5.14	1
9	MP2A	Mx	.005	1
10	MP2A	X	-2.968	6
11	MP2A	Z	5.14	6
12	MP2A	Mx	.005	6
13	MP2B	X	-1.489	1
14	MP2B	Z	2.578	1
15	MP2B	Mx	-.001	1
16	MP2B	X	-1.489	6
17	MP2B	Z	2.578	6
18	MP2B	Mx	-.001	6
19	MP2C	X	-2.646	1
20	MP2C	Z	4.583	1
21	MP2C	Mx	-.000833	1
22	MP2C	X	-2.646	6
23	MP2C	Z	4.583	6
24	MP2C	Mx	-.000833	6
25	MP2A	X	-2.968	1
26	MP2A	Z	5.14	1
27	MP2A	Mx	-.002	1
28	MP2A	X	-2.968	6
29	MP2A	Z	5.14	6
30	MP2A	Mx	-.002	6
31	MP2B	X	-1.489	1
32	MP2B	Z	2.578	1
33	MP2B	Mx	-.001	1
34	MP2B	X	-1.489	6
35	MP2B	Z	2.578	6
36	MP2B	Mx	-.001	6
37	MP2C	X	-2.646	1
38	MP2C	Z	4.583	1
39	MP2C	Mx	.004	1
40	MP2C	X	-2.646	6
41	MP2C	Z	4.583	6
42	MP2C	Mx	.004	6
43	MP2A	X	-1.727	.5
44	MP2A	Z	2.992	.5
45	MP2A	Mx	-.000864	.5
46	MP2B	X	-1.068	.5
47	MP2B	Z	1.849	.5
48	MP2B	Mx	.001	.5
49	MP2C	X	-1.584	.5
50	MP2C	Z	2.743	.5
51	MP2C	Mx	-.001	.5
52	MP1A	X	-1.787	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	3.095	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-1.306	3.5
56	MP1B	Z	2.263	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-1.682	3.5
59	MP1C	Z	2.914	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-3.012	2
62	OVP1	Z	5.216	2
63	OVP1	Mx	0	2
64	OVP3	X	-3.012	2
65	OVP3	Z	5.216	2
66	OVP3	Mx	0	2
67	MP4A	X	-2.015	2.5
68	MP4A	Z	3.489	2.5
69	MP4A	Mx	.001	2.5
70	MP4A	X	-2.015	4.5
71	MP4A	Z	3.489	4.5
72	MP4A	Mx	.001	4.5
73	MP4C	X	-1.776	2.5
74	MP4C	Z	3.076	2.5
75	MP4C	Mx	.001	2.5
76	MP4C	X	-1.776	4.5
77	MP4C	Z	3.076	4.5
78	MP4C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-2.168	2.5
2	MP1B	Z	1.252	2.5
3	MP1B	Mx	-.001	2.5
4	MP1B	X	-2.168	4.5
5	MP1B	Z	1.252	4.5
6	MP1B	Mx	-.001	4.5
7	MP2A	X	-3.432	1
8	MP2A	Z	1.982	1
9	MP2A	Mx	.003	1
10	MP2A	X	-3.432	6
11	MP2A	Z	1.982	6
12	MP2A	Mx	.003	6
13	MP2B	X	-3.432	1
14	MP2B	Z	1.982	1
15	MP2B	Mx	-.000478	1
16	MP2B	X	-3.432	6
17	MP2B	Z	1.982	6
18	MP2B	Mx	-.000478	6
19	MP2C	X	-5.891	1
20	MP2C	Z	3.401	1
21	MP2C	Mx	-.004	1
22	MP2C	X	-5.891	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2C	Z	3.401	6
24	MP2C	Mx	-.004	6
25	MP2A	X	-3.432	1
26	MP2A	Z	1.982	1
27	MP2A	Mx	.000477	1
28	MP2A	X	-3.432	6
29	MP2A	Z	1.982	6
30	MP2A	Mx	.000477	6
31	MP2B	X	-3.432	1
32	MP2B	Z	1.982	1
33	MP2B	Mx	-.003	1
34	MP2B	X	-3.432	6
35	MP2B	Z	1.982	6
36	MP2B	Mx	-.003	6
37	MP2C	X	-5.891	1
38	MP2C	Z	3.401	1
39	MP2C	Mx	.005	1
40	MP2C	X	-5.891	6
41	MP2C	Z	3.401	6
42	MP2C	Mx	.005	6
43	MP2A	X	-2.23	.5
44	MP2A	Z	1.288	.5
45	MP2A	Mx	-.001	.5
46	MP2B	X	-2.23	.5
47	MP2B	Z	1.288	.5
48	MP2B	Mx	.001	.5
49	MP2C	X	-3.327	.5
50	MP2C	Z	1.921	.5
51	MP2C	Mx	-.000334	.5
52	MP1A	X	-2.54	3.5
53	MP1A	Z	1.467	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-2.54	3.5
56	MP1B	Z	1.467	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-3.339	3.5
59	MP1C	Z	1.928	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-4.32	2
62	OVP1	Z	2.494	2
63	OVP1	Mx	0	2
64	OVP3	X	-4.32	2
65	OVP3	Z	2.494	2
66	OVP3	Mx	0	2
67	MP4A	X	-2.222	2.5
68	MP4A	Z	1.283	2.5
69	MP4A	Mx	.001	2.5
70	MP4A	X	-2.222	4.5
71	MP4A	Z	1.283	4.5
72	MP4A	Mx	.001	4.5
73	MP4C	X	-4.047	2.5
74	MP4C	Z	2.336	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP4C	Mx	.000405	2.5
76	MP4C	X	-4.047	4.5
77	MP4C	Z	2.336	4.5
78	MP4C	Mx	.000405	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-4.117	2.5
2	MP1B	Z	0	2.5
3	MP1B	Mx	-.001	2.5
4	MP1B	X	-4.117	4.5
5	MP1B	Z	0	4.5
6	MP1B	Mx	-.001	4.5
7	MP2A	X	-2.977	1
8	MP2A	Z	0	1
9	MP2A	Mx	.001	1
10	MP2A	X	-2.977	6
11	MP2A	Z	0	6
12	MP2A	Mx	.001	6
13	MP2B	X	-5.936	1
14	MP2B	Z	0	1
15	MP2B	Mx	.002	1
16	MP2B	X	-5.936	6
17	MP2B	Z	0	6
18	MP2B	Mx	.002	6
19	MP2C	X	-6.46	1
20	MP2C	Z	0	1
21	MP2C	Mx	-.005	1
22	MP2C	X	-6.46	6
23	MP2C	Z	0	6
24	MP2C	Mx	-.005	6
25	MP2A	X	-2.977	1
26	MP2A	Z	0	1
27	MP2A	Mx	.001	1
28	MP2A	X	-2.977	6
29	MP2A	Z	0	6
30	MP2A	Mx	.001	6
31	MP2B	X	-5.936	1
32	MP2B	Z	0	1
33	MP2B	Mx	-.005	1
34	MP2B	X	-5.936	6
35	MP2B	Z	0	6
36	MP2B	Mx	-.005	6
37	MP2C	X	-6.46	1
38	MP2C	Z	0	1
39	MP2C	Mx	.003	1
40	MP2C	X	-6.46	6
41	MP2C	Z	0	6
42	MP2C	Mx	.003	6
43	MP2A	X	-2.136	.5
44	MP2A	Z	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	-.001	.5
46	MP2B	X	-3.455	.5
47	MP2B	Z	0	.5
48	MP2B	Mx	.000864	.5
49	MP2C	X	-3.689	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.000631	.5
52	MP1A	X	-2.613	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-3.574	3.5
56	MP1B	Z	0	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-3.744	3.5
59	MP1C	Z	0	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-4.145	2
62	OVP1	Z	0	2
63	OVP1	Mx	0	2
64	OVP3	X	-4.145	2
65	OVP3	Z	0	2
66	OVP3	Mx	0	2
67	MP4A	X	-1.834	2.5
68	MP4A	Z	0	2.5
69	MP4A	Mx	.000917	2.5
70	MP4A	X	-1.834	4.5
71	MP4A	Z	0	4.5
72	MP4A	Mx	.000917	4.5
73	MP4C	X	-4.419	2.5
74	MP4C	Z	0	2.5
75	MP4C	Mx	-.000756	2.5
76	MP4C	X	-4.419	4.5
77	MP4C	Z	0	4.5
78	MP4C	Mx	-.000756	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	X	-4.265	2.5
2	MP1B	Z	-2.462	2.5
3	MP1B	Mx	0	2.5
4	MP1B	X	-4.265	4.5
5	MP1B	Z	-2.462	4.5
6	MP1B	Mx	0	4.5
7	MP2A	X	-3.432	1
8	MP2A	Z	-1.982	1
9	MP2A	Mx	.000477	1
10	MP2A	X	-3.432	6
11	MP2A	Z	-1.982	6
12	MP2A	Mx	.000477	6
13	MP2B	X	-5.994	1
14	MP2B	Z	-3.461	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mx	.004	1
16	MP2B	X	-5.994	6
17	MP2B	Z	-3.461	6
18	MP2B	Mx	.004	6
19	MP2C	X	-3.99	1
20	MP2C	Z	-2.304	1
21	MP2C	Mx	-.004	1
22	MP2C	X	-3.99	6
23	MP2C	Z	-2.304	6
24	MP2C	Mx	-.004	6
25	MP2A	X	-3.432	1
26	MP2A	Z	-1.982	1
27	MP2A	Mx	.003	1
28	MP2A	X	-3.432	6
29	MP2A	Z	-1.982	6
30	MP2A	Mx	.003	6
31	MP2B	X	-5.994	1
32	MP2B	Z	-3.461	1
33	MP2B	Mx	-.004	1
34	MP2B	X	-5.994	6
35	MP2B	Z	-3.461	6
36	MP2B	Mx	-.004	6
37	MP2C	X	-3.99	1
38	MP2C	Z	-2.304	1
39	MP2C	Mx	8.6e-5	1
40	MP2C	X	-3.99	6
41	MP2C	Z	-2.304	6
42	MP2C	Mx	8.6e-5	6
43	MP2A	X	-2.23	.5
44	MP2A	Z	-1.288	.5
45	MP2A	Mx	-.001	.5
46	MP2B	X	-3.373	.5
47	MP2B	Z	-1.947	.5
48	MP2B	Mx	0	.5
49	MP2C	X	-2.479	.5
50	MP2C	Z	-1.431	.5
51	MP2C	Mx	.001	.5
52	MP1A	X	-2.54	3.5
53	MP1A	Z	-1.467	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-3.373	3.5
56	MP1B	Z	-1.947	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-2.721	3.5
59	MP1C	Z	-1.571	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-3.756	2
62	OVP1	Z	-2.168	2
63	OVP1	Mx	0	2
64	OVP3	X	-3.756	2
65	OVP3	Z	-2.168	2
66	OVP3	Mx	0	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
67	MP4A	X	-2.222	2.5
68	MP4A	Z	-1.283	2.5
69	MP4A	Mx	.001	2.5
70	MP4A	X	-2.222	4.5
71	MP4A	Z	-1.283	4.5
72	MP4A	Mx	.001	4.5
73	MP4C	X	-2.636	2.5
74	MP4C	Z	-1.522	2.5
75	MP4C	Mx	-.001	2.5
76	MP4C	X	-2.636	4.5
77	MP4C	Z	-1.522	4.5
78	MP4C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	X	-2.059	2.5
2	MP1B	Z	-3.566	2.5
3	MP1B	Mx	.001	2.5
4	MP1B	X	-2.059	4.5
5	MP1B	Z	-3.566	4.5
6	MP1B	Mx	.001	4.5
7	MP2A	X	-2.968	1
8	MP2A	Z	-5.14	1
9	MP2A	Mx	-.002	1
10	MP2A	X	-2.968	6
11	MP2A	Z	-5.14	6
12	MP2A	Mx	-.002	6
13	MP2B	X	-2.968	1
14	MP2B	Z	-5.14	1
15	MP2B	Mx	.005	1
16	MP2B	X	-2.968	6
17	MP2B	Z	-5.14	6
18	MP2B	Mx	.005	6
19	MP2C	X	-1.548	1
20	MP2C	Z	-2.681	1
21	MP2C	Mx	-.002	1
22	MP2C	X	-1.548	6
23	MP2C	Z	-2.681	6
24	MP2C	Mx	-.002	6
25	MP2A	X	-2.968	1
26	MP2A	Z	-5.14	1
27	MP2A	Mx	.005	1
28	MP2A	X	-2.968	6
29	MP2A	Z	-5.14	6
30	MP2A	Mx	.005	6
31	MP2B	X	-2.968	1
32	MP2B	Z	-5.14	1
33	MP2B	Mx	-.002	1
34	MP2B	X	-2.968	6
35	MP2B	Z	-5.14	6
36	MP2B	Mx	-.002	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2C	X	-1.548	1
38	MP2C	Z	-2.681	1
39	MP2C	Mx	-.001	1
40	MP2C	X	-1.548	6
41	MP2C	Z	-2.681	6
42	MP2C	Mx	-.001	6
43	MP2A	X	-1.727	.5
44	MP2A	Z	-2.992	.5
45	MP2A	Mx	-.000864	.5
46	MP2B	X	-1.727	.5
47	MP2B	Z	-2.992	.5
48	MP2B	Mx	-.000864	.5
49	MP2C	X	-1.094	.5
50	MP2C	Z	-1.895	.5
51	MP2C	Mx	.001	.5
52	MP1A	X	-1.787	3.5
53	MP1A	Z	-3.095	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	-1.787	3.5
56	MP1B	Z	-3.095	3.5
57	MP1B	Mx	0	3.5
58	MP1C	X	-1.326	3.5
59	MP1C	Z	-2.296	3.5
60	MP1C	Mx	0	3.5
61	OVP1	X	-2.686	2
62	OVP1	Z	-4.652	2
63	OVP1	Mx	0	2
64	OVP3	X	-2.686	2
65	OVP3	Z	-4.652	2
66	OVP3	Mx	0	2
67	MP4A	X	-2.015	2.5
68	MP4A	Z	-3.489	2.5
69	MP4A	Mx	.001	2.5
70	MP4A	X	-2.015	4.5
71	MP4A	Z	-3.489	4.5
72	MP4A	Mx	.001	4.5
73	MP4C	X	-.961	2.5
74	MP4C	Z	-1.664	2.5
75	MP4C	Mx	-.000946	2.5
76	MP4C	X	-.961	4.5
77	MP4C	Z	-1.664	4.5
78	MP4C	Mx	-.000946	4.5

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LM2	Y	-500	0

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LM1	Y	-500	0



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**Member Point Loads (BLC 79 : Lv1)**

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

**Member Point Loads (BLC 80 : Lv2)**

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1B	Y	-1.756	2.5
2	MP1B	My	.000439	2.5
3	MP1B	Mz	-.00076	2.5
4	MP1B	Y	-1.756	4.5
5	MP1B	My	.000439	4.5
6	MP1B	Mz	-.00076	4.5
7	MP2A	Y	-.818	1
8	MP2A	My	-.000409	1
9	MP2A	Mz	.000512	1
10	MP2A	Y	-.818	6
11	MP2A	My	-.000409	6
12	MP2A	Mz	.000512	6
13	MP2B	Y	-.818	1
14	MP2B	My	-.000238	1
15	MP2B	Mz	-.00061	1
16	MP2B	Y	-.818	6
17	MP2B	My	-.000238	6
18	MP2B	Mz	-.00061	6
19	MP2C	Y	-.818	1
20	MP2C	My	.000621	1
21	MP2C	Mz	.00021	1
22	MP2C	Y	-.818	6
23	MP2C	My	.000621	6
24	MP2C	Mz	.00021	6
25	MP2A	Y	-.818	1
26	MP2A	My	-.000409	1
27	MP2A	Mz	-.000512	1
28	MP2A	Y	-.818	6
29	MP2A	My	-.000409	6
30	MP2A	Mz	-.000512	6
31	MP2B	Y	-.818	1
32	MP2B	My	.000648	1
33	MP2B	Mz	-9.9e-5	1
34	MP2B	Y	-.818	6
35	MP2B	My	.000648	6
36	MP2B	Mz	-9.9e-5	6
37	MP2C	Y	-.818	1
38	MP2C	My	-.000341	1
39	MP2C	Mz	.00056	1
40	MP2C	Y	-.818	6
41	MP2C	My	-.000341	6
42	MP2C	Mz	.00056	6
43	MP2A	Y	-2.834	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2A	My	.001	.5
45	MP2A	Mz	0	.5
46	MP2B	Y	-2.834	.5
47	MP2B	My	-.000709	.5
48	MP2B	Mz	.001	.5
49	MP2C	Y	-2.834	.5
50	MP2C	My	-.000485	.5
51	MP2C	Mz	-.001	.5
52	MP1A	Y	-3.403	3.5
53	MP1A	My	0	3.5
54	MP1A	Mz	0	3.5
55	MP1B	Y	-3.403	3.5
56	MP1B	My	0	3.5
57	MP1B	Mz	0	3.5
58	MP1C	Y	-3.403	3.5
59	MP1C	My	0	3.5
60	MP1C	Mz	0	3.5
61	OVP1	Y	-1.085	2
62	OVP1	My	0	2
63	OVP1	Mz	0	2
64	OVP3	Y	-1.085	2
65	OVP3	My	0	2
66	OVP3	Mz	0	2
67	MP4A	Y	-1.155	2.5
68	MP4A	My	-.000578	2.5
69	MP4A	Mz	0	2.5
70	MP4A	Y	-1.155	4.5
71	MP4A	My	-.000578	4.5
72	MP4A	Mz	0	4.5
73	MP4C	Y	-1.155	2.5
74	MP4C	My	.000198	2.5
75	MP4C	Mz	.000543	2.5
76	MP4C	Y	-1.155	4.5
77	MP4C	My	.000198	4.5
78	MP4C	Mz	.000543	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1B	Z	-4.39	2.5
2	MP1B	Mx	.002	2.5
3	MP1B	Z	-4.39	4.5
4	MP1B	Mx	.002	4.5
5	MP2A	Z	-2.046	1
6	MP2A	Mx	-.001	1
7	MP2A	Z	-2.046	6
8	MP2A	Mx	-.001	6
9	MP2B	Z	-2.046	1
10	MP2B	Mx	.002	1
11	MP2B	Z	-2.046	6
12	MP2B	Mx	.002	6
13	MP2C	Z	-2.046	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
14	MP2C	Mx	-.000524	1
15	MP2C	Z	-2.046	6
16	MP2C	Mx	-.000524	6
17	MP2A	Z	-2.046	1
18	MP2A	Mx	.001	1
19	MP2A	Z	-2.046	6
20	MP2A	Mx	.001	6
21	MP2B	Z	-2.046	1
22	MP2B	Mx	.000247	1
23	MP2B	Z	-2.046	6
24	MP2B	Mx	.000247	6
25	MP2C	Z	-2.046	1
26	MP2C	Mx	-.001	1
27	MP2C	Z	-2.046	6
28	MP2C	Mx	-.001	6
29	MP2A	Z	-7.086	.5
30	MP2A	Mx	0	.5
31	MP2B	Z	-7.086	.5
32	MP2B	Mx	-.003	.5
33	MP2C	Z	-7.086	.5
34	MP2C	Mx	.003	.5
35	MP1A	Z	-8.508	3.5
36	MP1A	Mx	0	3.5
37	MP1B	Z	-8.508	3.5
38	MP1B	Mx	0	3.5
39	MP1C	Z	-8.508	3.5
40	MP1C	Mx	0	3.5
41	OVP1	Z	-2.712	2
42	OVP1	Mx	0	2
43	OVP3	Z	-2.712	2
44	OVP3	Mx	0	2
45	MP4A	Z	-2.888	2.5
46	MP4A	Mx	0	2.5
47	MP4A	Z	-2.888	4.5
48	MP4A	Mx	0	4.5
49	MP4C	Z	-2.888	2.5
50	MP4C	Mx	-.001	2.5
51	MP4C	Z	-2.888	4.5
52	MP4C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1B	X	4.39	2.5
2	MP1B	Mx	.001	2.5
3	MP1B	X	4.39	4.5
4	MP1B	Mx	.001	4.5
5	MP2A	X	2.046	1
6	MP2A	Mx	-.001	1
7	MP2A	X	2.046	6
8	MP2A	Mx	-.001	6
9	MP2B	X	2.046	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
10	MP2B	Mx	-.000596	1
11	MP2B	X	2.046	6
12	MP2B	Mx	-.000596	6
13	MP2C	X	2.046	1
14	MP2C	Mx	.002	1
15	MP2C	X	2.046	6
16	MP2C	Mx	.002	6
17	MP2A	X	2.046	1
18	MP2A	Mx	-.001	1
19	MP2A	X	2.046	6
20	MP2A	Mx	-.001	6
21	MP2B	X	2.046	1
22	MP2B	Mx	.002	1
23	MP2B	X	2.046	6
24	MP2B	Mx	.002	6
25	MP2C	X	2.046	1
26	MP2C	Mx	-.000852	1
27	MP2C	X	2.046	6
28	MP2C	Mx	-.000852	6
29	MP2A	X	7.086	.5
30	MP2A	Mx	.004	.5
31	MP2B	X	7.086	.5
32	MP2B	Mx	-.002	.5
33	MP2C	X	7.086	.5
34	MP2C	Mx	-.001	.5
35	MP1A	X	8.508	3.5
36	MP1A	Mx	0	3.5
37	MP1B	X	8.508	3.5
38	MP1B	Mx	0	3.5
39	MP1C	X	8.508	3.5
40	MP1C	Mx	0	3.5
41	OVP1	X	2.712	2
42	OVP1	Mx	0	2
43	OVP3	X	2.712	2
44	OVP3	Mx	0	2
45	MP4A	X	2.888	2.5
46	MP4A	Mx	-.001	2.5
47	MP4A	X	2.888	4.5
48	MP4A	Mx	-.001	4.5
49	MP4C	X	2.888	2.5
50	MP4C	Mx	.000494	2.5
51	MP4C	X	2.888	4.5
52	MP4C	Mx	.000494	4.5

**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	LV	Y	-8.351	-8.351	0	%100
2	M2	Y	-8.351	-8.351	0	%100
3	M13	Y	-10.78	-10.78	0	%100
4	M14	Y	-10.78	-10.78	0	%100



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**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, %]
5	M15	Y	-10.78	-10.78	0	% 100
6	M16	Y	-10.78	-10.78	0	% 100
7	M17	Y	-7.374	-7.374	0	% 100
8	M18	Y	-7.374	-7.374	0	% 100
9	M19	Y	-7.374	-7.374	0	% 100
10	M20	Y	-7.374	-7.374	0	% 100
11	M21	Y	-10.78	-10.78	0	% 100
12	M22	Y	-10.78	-10.78	0	% 100
13	M23	Y	-10.78	-10.78	0	% 100
14	M24	Y	-10.78	-10.78	0	% 100
15	M25	Y	-4.751	-4.751	0	% 100
16	M26	Y	-4.751	-4.751	0	% 100
17	M27	Y	-4.751	-4.751	0	% 100
18	M28	Y	-4.751	-4.751	0	% 100
19	MP4A	Y	-8.351	-8.351	0	% 100
20	MP3A	Y	-8.351	-8.351	0	% 100
21	MP2A	Y	-8.351	-8.351	0	% 100
22	MP1A	Y	-8.351	-8.351	0	% 100
23	M44	Y	-4.751	-4.751	0	% 100
24	M45	Y	-4.751	-4.751	0	% 100
25	M46	Y	-4.751	-4.751	0	% 100
26	M47	Y	-4.751	-4.751	0	% 100
27	M43	Y	-12.724	-12.724	0	% 100
28	M46A	Y	-8.351	-8.351	0	% 100
29	M47A	Y	-8.351	-8.351	0	% 100
30	M56	Y	-10.78	-10.78	0	% 100
31	M57	Y	-10.78	-10.78	0	% 100
32	M58	Y	-10.78	-10.78	0	% 100
33	M59	Y	-10.78	-10.78	0	% 100
34	M60	Y	-7.374	-7.374	0	% 100
35	M61	Y	-7.374	-7.374	0	% 100
36	M62	Y	-7.374	-7.374	0	% 100
37	OVP2	Y	-7.374	-7.374	0	% 100
38	M64	Y	-10.78	-10.78	0	% 100
39	M65	Y	-10.78	-10.78	0	% 100
40	M66	Y	-10.78	-10.78	0	% 100
41	M67	Y	-10.78	-10.78	0	% 100
42	M68	Y	-4.751	-4.751	0	% 100
43	M69	Y	-4.751	-4.751	0	% 100
44	M70	Y	-4.751	-4.751	0	% 100
45	M71	Y	-4.751	-4.751	0	% 100
46	MP4C	Y	-8.351	-8.351	0	% 100
47	MP3C	Y	-8.351	-8.351	0	% 100
48	MP2C	Y	-8.351	-8.351	0	% 100
49	MP1C	Y	-8.351	-8.351	0	% 100
50	M76	Y	-4.751	-4.751	0	% 100
51	M77	Y	-4.751	-4.751	0	% 100
52	M78	Y	-4.751	-4.751	0	% 100
53	M79	Y	-4.751	-4.751	0	% 100
54	M86	Y	-12.724	-12.724	0	% 100
55	M89	Y	-8.351	-8.351	0	% 100
56	M90	Y	-8.351	-8.351	0	% 100



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**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,%]
57	M99	Y	-10.78	-10.78	0	% 100
58	M100	Y	-10.78	-10.78	0	% 100
59	M101	Y	-10.78	-10.78	0	% 100
60	M102	Y	-10.78	-10.78	0	% 100
61	M103	Y	-7.374	-7.374	0	% 100
62	M104	Y	-7.374	-7.374	0	% 100
63	M105	Y	-7.374	-7.374	0	% 100
64	OVP	Y	-7.374	-7.374	0	% 100
65	M107	Y	-10.78	-10.78	0	% 100
66	M108	Y	-10.78	-10.78	0	% 100
67	M109	Y	-10.78	-10.78	0	% 100
68	M110	Y	-10.78	-10.78	0	% 100
69	M111	Y	-4.751	-4.751	0	% 100
70	M112	Y	-4.751	-4.751	0	% 100
71	M113	Y	-4.751	-4.751	0	% 100
72	M114	Y	-4.751	-4.751	0	% 100
73	MP4B	Y	-8.351	-8.351	0	% 100
74	MP3B	Y	-8.351	-8.351	0	% 100
75	MP2B	Y	-8.351	-8.351	0	% 100
76	MP1B	Y	-8.351	-8.351	0	% 100
77	M119	Y	-4.751	-4.751	0	% 100
78	M120	Y	-4.751	-4.751	0	% 100
79	M121	Y	-4.751	-4.751	0	% 100
80	M122	Y	-4.751	-4.751	0	% 100
81	M129	Y	-12.724	-12.724	0	% 100
82	M132	Y	-8.351	-8.351	0	% 100
83	M134	Y	-8.351	-8.351	0	% 100
84	M136	Y	-8.351	-8.351	0	% 100
85	OVP3	Y	-8.351	-8.351	0	% 100
86	OVP1	Y	-8.351	-8.351	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	LV	X	0	0	0	% 100
2	LV	Z	-9.076	-9.076	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	-9.076	-9.076	0	% 100
5	M13	X	0	0	0	% 100
6	M13	Z	0	0	0	% 100
7	M14	X	0	0	0	% 100
8	M14	Z	0	0	0	% 100
9	M15	X	0	0	0	% 100
10	M15	Z	0	0	0	% 100
11	M16	X	0	0	0	% 100
12	M16	Z	0	0	0	% 100
13	M17	X	0	0	0	% 100
14	M17	Z	-3.733	-3.733	0	% 100
15	M18	X	0	0	0	% 100
16	M18	Z	-3.733	-3.733	0	% 100
17	M19	X	0	0	0	% 100
18	M19	Z	-3.733	-3.733	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M20	X	0	0	0	%100
20	M20	Z	-3.733	-3.733	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-2.388	-2.388	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-2.388	-2.388	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-2.388	-2.388	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-2.388	-2.388	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.934	-1.934	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.934	-1.934	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.934	-1.934	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.934	-1.934	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-9.076	-9.076	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-9.076	-9.076	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-9.076	-9.076	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-9.076	-9.076	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-2.388	-2.388	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-2.388	-2.388	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-2.388	-2.388	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.388	-2.388	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-11.959	-11.959	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	-2.269	-2.269	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	-2.269	-2.269	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	-1.791	-1.791	0	%100
61	M57	X	0	0	0	%100
62	M57	Z	-1.791	-1.791	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	-1.791	-1.791	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	-1.791	-1.791	0	%100
67	M60	X	0	0	0	%100
68	M60	Z	-5.182	-5.182	0	%100
69	M61	X	0	0	0	%100
70	M61	Z	-5.182	-5.182	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	M62	X	0	0	0	% 100
72	M62	Z	-.118	-.118	0	% 100
73	OVP2	X	0	0	0	% 100
74	OVP2	Z	-.118	-.118	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	-.597	-.597	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	-.597	-.597	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	-.597	-.597	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	-.597	-.597	0	% 100
83	M68	X	0	0	0	% 100
84	M68	Z	-2.222	-2.222	0	% 100
85	M69	X	0	0	0	% 100
86	M69	Z	-2.222	-2.222	0	% 100
87	M70	X	0	0	0	% 100
88	M70	Z	-1.217	-1.217	0	% 100
89	M71	X	0	0	0	% 100
90	M71	Z	-1.217	-1.217	0	% 100
91	MP4C	X	0	0	0	% 100
92	MP4C	Z	-9.076	-9.076	0	% 100
93	MP3C	X	0	0	0	% 100
94	MP3C	Z	-9.076	-9.076	0	% 100
95	MP2C	X	0	0	0	% 100
96	MP2C	Z	-9.076	-9.076	0	% 100
97	MP1C	X	0	0	0	% 100
98	MP1C	Z	-9.076	-9.076	0	% 100
99	M76	X	0	0	0	% 100
100	M76	Z	-2.388	-2.388	0	% 100
101	M77	X	0	0	0	% 100
102	M77	Z	-2.388	-2.388	0	% 100
103	M78	X	0	0	0	% 100
104	M78	Z	-2.388	-2.388	0	% 100
105	M79	X	0	0	0	% 100
106	M79	Z	-2.388	-2.388	0	% 100
107	M86	X	0	0	0	% 100
108	M86	Z	-11.959	-11.959	0	% 100
109	M89	X	0	0	0	% 100
110	M89	Z	-2.269	-2.269	0	% 100
111	M90	X	0	0	0	% 100
112	M90	Z	-2.269	-2.269	0	% 100
113	M99	X	0	0	0	% 100
114	M99	Z	-1.791	-1.791	0	% 100
115	M100	X	0	0	0	% 100
116	M100	Z	-1.791	-1.791	0	% 100
117	M101	X	0	0	0	% 100
118	M101	Z	-1.791	-1.791	0	% 100
119	M102	X	0	0	0	% 100
120	M102	Z	-1.791	-1.791	0	% 100
121	M103	X	0	0	0	% 100
122	M103	Z	-.118	-.118	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, %]	
123	M104	X	0	0	0	% 100
124	M104	Z	-.118	-.118	0	% 100
125	M105	X	0	0	0	% 100
126	M105	Z	-5.182	-5.182	0	% 100
127	OVP	X	0	0	0	% 100
128	OVP	Z	-5.182	-5.182	0	% 100
129	M107	X	0	0	0	% 100
130	M107	Z	-.597	-.597	0	% 100
131	M108	X	0	0	0	% 100
132	M108	Z	-.597	-.597	0	% 100
133	M109	X	0	0	0	% 100
134	M109	Z	-.597	-.597	0	% 100
135	M110	X	0	0	0	% 100
136	M110	Z	-.597	-.597	0	% 100
137	M111	X	0	0	0	% 100
138	M111	Z	-1.217	-1.217	0	% 100
139	M112	X	0	0	0	% 100
140	M112	Z	-1.217	-1.217	0	% 100
141	M113	X	0	0	0	% 100
142	M113	Z	-2.222	-2.222	0	% 100
143	M114	X	0	0	0	% 100
144	M114	Z	-2.222	-2.222	0	% 100
145	MP4B	X	0	0	0	% 100
146	MP4B	Z	-9.076	-9.076	0	% 100
147	MP3B	X	0	0	0	% 100
148	MP3B	Z	-9.076	-9.076	0	% 100
149	MP2B	X	0	0	0	% 100
150	MP2B	Z	-9.076	-9.076	0	% 100
151	MP1B	X	0	0	0	% 100
152	MP1B	Z	-9.076	-9.076	0	% 100
153	M119	X	0	0	0	% 100
154	M119	Z	-2.388	-2.388	0	% 100
155	M120	X	0	0	0	% 100
156	M120	Z	-2.388	-2.388	0	% 100
157	M121	X	0	0	0	% 100
158	M121	Z	-2.388	-2.388	0	% 100
159	M122	X	0	0	0	% 100
160	M122	Z	-2.388	-2.388	0	% 100
161	M129	X	0	0	0	% 100
162	M129	Z	-11.959	-11.959	0	% 100
163	M132	X	0	0	0	% 100
164	M132	Z	-2.488	-2.488	0	% 100
165	M134	X	0	0	0	% 100
166	M134	Z	-8.525	-8.525	0	% 100
167	M136	X	0	0	0	% 100
168	M136	Z	-1.95	-1.95	0	% 100
169	OVP3	X	0	0	0	% 100
170	OVP3	Z	-8.271	-8.271	0	% 100
171	OVP1	X	0	0	0	% 100
172	OVP1	Z	-8.271	-8.271	0	% 100



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**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	LV	X	3.403	3.403	0	%100
2	LV	Z	-5.895	-5.895	0	%100
3	M2	X	3.403	3.403	0	%100
4	M2	Z	-5.895	-5.895	0	%100
5	M13	X	.299	.299	0	%100
6	M13	Z	-.517	-.517	0	%100
7	M14	X	.299	.299	0	%100
8	M14	Z	-.517	-.517	0	%100
9	M15	X	.299	.299	0	%100
10	M15	Z	-.517	-.517	0	%100
11	M16	X	.299	.299	0	%100
12	M16	Z	-.517	-.517	0	%100
13	M17	X	.42	.42	0	%100
14	M17	Z	-.728	-.728	0	%100
15	M18	X	.42	.42	0	%100
16	M18	Z	-.728	-.728	0	%100
17	M19	X	2.952	2.952	0	%100
18	M19	Z	-5.113	-5.113	0	%100
19	M20	X	2.952	2.952	0	%100
20	M20	Z	-5.113	-5.113	0	%100
21	M21	X	.896	.896	0	%100
22	M21	Z	-1.551	-1.551	0	%100
23	M22	X	.896	.896	0	%100
24	M22	Z	-1.551	-1.551	0	%100
25	M23	X	.896	.896	0	%100
26	M23	Z	-1.551	-1.551	0	%100
27	M24	X	.896	.896	0	%100
28	M24	Z	-1.551	-1.551	0	%100
29	M25	X	.68	.68	0	%100
30	M25	Z	-1.178	-1.178	0	%100
31	M26	X	.68	.68	0	%100
32	M26	Z	-1.178	-1.178	0	%100
33	M27	X	1.182	1.182	0	%100
34	M27	Z	-2.048	-2.048	0	%100
35	M28	X	1.182	1.182	0	%100
36	M28	Z	-2.048	-2.048	0	%100
37	MP4A	X	4.538	4.538	0	%100
38	MP4A	Z	-7.86	-7.86	0	%100
39	MP3A	X	4.538	4.538	0	%100
40	MP3A	Z	-7.86	-7.86	0	%100
41	MP2A	X	4.538	4.538	0	%100
42	MP2A	Z	-7.86	-7.86	0	%100
43	MP1A	X	4.538	4.538	0	%100
44	MP1A	Z	-7.86	-7.86	0	%100
45	M44	X	1.194	1.194	0	%100
46	M44	Z	-2.068	-2.068	0	%100
47	M45	X	1.194	1.194	0	%100
48	M45	Z	-2.068	-2.068	0	%100
49	M46	X	1.194	1.194	0	%100
50	M46	Z	-2.068	-2.068	0	%100
51	M47	X	1.194	1.194	0	%100
52	M47	Z	-2.068	-2.068	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	M43	X	5.979	5.979	0	% 100
54	M43	Z	-10.357	-10.357	0	% 100
55	M46A	X	3.403	3.403	0	% 100
56	M46A	Z	-5.895	-5.895	0	% 100
57	M47A	X	3.403	3.403	0	% 100
58	M47A	Z	-5.895	-5.895	0	% 100
59	M56	X	.299	.299	0	% 100
60	M56	Z	-.517	-.517	0	% 100
61	M57	X	.299	.299	0	% 100
62	M57	Z	-.517	-.517	0	% 100
63	M58	X	.299	.299	0	% 100
64	M58	Z	-.517	-.517	0	% 100
65	M59	X	.299	.299	0	% 100
66	M59	Z	-.517	-.517	0	% 100
67	M60	X	2.952	2.952	0	% 100
68	M60	Z	-5.113	-5.113	0	% 100
69	M61	X	2.952	2.952	0	% 100
70	M61	Z	-5.113	-5.113	0	% 100
71	M62	X	.42	.42	0	% 100
72	M62	Z	-.728	-.728	0	% 100
73	OVP2	X	.42	.42	0	% 100
74	OVP2	Z	-.728	-.728	0	% 100
75	M64	X	.896	.896	0	% 100
76	M64	Z	-1.551	-1.551	0	% 100
77	M65	X	.896	.896	0	% 100
78	M65	Z	-1.551	-1.551	0	% 100
79	M66	X	.896	.896	0	% 100
80	M66	Z	-1.551	-1.551	0	% 100
81	M67	X	.896	.896	0	% 100
82	M67	Z	-1.551	-1.551	0	% 100
83	M68	X	1.182	1.182	0	% 100
84	M68	Z	-2.048	-2.048	0	% 100
85	M69	X	1.182	1.182	0	% 100
86	M69	Z	-2.048	-2.048	0	% 100
87	M70	X	.68	.68	0	% 100
88	M70	Z	-1.178	-1.178	0	% 100
89	M71	X	.68	.68	0	% 100
90	M71	Z	-1.178	-1.178	0	% 100
91	MP4C	X	4.538	4.538	0	% 100
92	MP4C	Z	-7.86	-7.86	0	% 100
93	MP3C	X	4.538	4.538	0	% 100
94	MP3C	Z	-7.86	-7.86	0	% 100
95	MP2C	X	4.538	4.538	0	% 100
96	MP2C	Z	-7.86	-7.86	0	% 100
97	MP1C	X	4.538	4.538	0	% 100
98	MP1C	Z	-7.86	-7.86	0	% 100
99	M76	X	1.194	1.194	0	% 100
100	M76	Z	-2.068	-2.068	0	% 100
101	M77	X	1.194	1.194	0	% 100
102	M77	Z	-2.068	-2.068	0	% 100
103	M78	X	1.194	1.194	0	% 100
104	M78	Z	-2.068	-2.068	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft, %)	End Location(ft, %)
105	M79	X	1.194	1.194	0	%100
106	M79	Z	-2.068	-2.068	0	%100
107	M86	X	5.979	5.979	0	%100
108	M86	Z	-10.357	-10.357	0	%100
109	M89	X	0	0	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	0	0	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	1.194	1.194	0	%100
114	M99	Z	-2.068	-2.068	0	%100
115	M100	X	1.194	1.194	0	%100
116	M100	Z	-2.068	-2.068	0	%100
117	M101	X	1.194	1.194	0	%100
118	M101	Z	-2.068	-2.068	0	%100
119	M102	X	1.194	1.194	0	%100
120	M102	Z	-2.068	-2.068	0	%100
121	M103	X	1.145	1.145	0	%100
122	M103	Z	-1.983	-1.983	0	%100
123	M104	X	1.145	1.145	0	%100
124	M104	Z	-1.983	-1.983	0	%100
125	M105	X	1.145	1.145	0	%100
126	M105	Z	-1.983	-1.983	0	%100
127	OVP	X	1.145	1.145	0	%100
128	OVP	Z	-1.983	-1.983	0	%100
129	M107	X	0	0	0	%100
130	M107	Z	0	0	0	%100
131	M108	X	0	0	0	%100
132	M108	Z	0	0	0	%100
133	M109	X	0	0	0	%100
134	M109	Z	0	0	0	%100
135	M110	X	0	0	0	%100
136	M110	Z	0	0	0	%100
137	M111	X	.824	.824	0	%100
138	M111	Z	-1.427	-1.427	0	%100
139	M112	X	.824	.824	0	%100
140	M112	Z	-1.427	-1.427	0	%100
141	M113	X	.824	.824	0	%100
142	M113	Z	-1.427	-1.427	0	%100
143	M114	X	.824	.824	0	%100
144	M114	Z	-1.427	-1.427	0	%100
145	MP4B	X	4.538	4.538	0	%100
146	MP4B	Z	-7.86	-7.86	0	%100
147	MP3B	X	4.538	4.538	0	%100
148	MP3B	Z	-7.86	-7.86	0	%100
149	MP2B	X	4.538	4.538	0	%100
150	MP2B	Z	-7.86	-7.86	0	%100
151	MP1B	X	4.538	4.538	0	%100
152	MP1B	Z	-7.86	-7.86	0	%100
153	M119	X	1.194	1.194	0	%100
154	M119	Z	-2.068	-2.068	0	%100
155	M120	X	1.194	1.194	0	%100
156	M120	Z	-2.068	-2.068	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
157	M121	X	1.194	1.194	0	% 100
158	M121	Z	-2.068	-2.068	0	% 100
159	M122	X	1.194	1.194	0	% 100
160	M122	Z	-2.068	-2.068	0	% 100
161	M129	X	5.979	5.979	0	% 100
162	M129	Z	-10.357	-10.357	0	% 100
163	M132	X	.058	.058	0	% 100
164	M132	Z	-.101	-.101	0	% 100
165	M134	X	3.346	3.346	0	% 100
166	M134	Z	-5.795	-5.795	0	% 100
167	M136	X	3.077	3.077	0	% 100
168	M136	Z	-5.329	-5.329	0	% 100
169	OVP3	X	4.135	4.135	0	% 100
170	OVP3	Z	-7.163	-7.163	0	% 100
171	OVP1	X	4.135	4.135	0	% 100
172	OVP1	Z	-7.163	-7.163	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	LV	X	1.965	1.965	0	% 100
2	LV	Z	-1.134	-1.134	0	% 100
3	M2	X	1.965	1.965	0	% 100
4	M2	Z	-1.134	-1.134	0	% 100
5	M13	X	1.551	1.551	0	% 100
6	M13	Z	-.896	-.896	0	% 100
7	M14	X	1.551	1.551	0	% 100
8	M14	Z	-.896	-.896	0	% 100
9	M15	X	1.551	1.551	0	% 100
10	M15	Z	-.896	-.896	0	% 100
11	M16	X	1.551	1.551	0	% 100
12	M16	Z	-.896	-.896	0	% 100
13	M17	X	.103	.103	0	% 100
14	M17	Z	-.059	-.059	0	% 100
15	M18	X	.103	.103	0	% 100
16	M18	Z	-.059	-.059	0	% 100
17	M19	X	4.488	4.488	0	% 100
18	M19	Z	-2.591	-2.591	0	% 100
19	M20	X	4.488	4.488	0	% 100
20	M20	Z	-2.591	-2.591	0	% 100
21	M21	X	.517	.517	0	% 100
22	M21	Z	-.299	-.299	0	% 100
23	M22	X	.517	.517	0	% 100
24	M22	Z	-.299	-.299	0	% 100
25	M23	X	.517	.517	0	% 100
26	M23	Z	-.299	-.299	0	% 100
27	M24	X	.517	.517	0	% 100
28	M24	Z	-.299	-.299	0	% 100
29	M25	X	1.054	1.054	0	% 100
30	M25	Z	-.609	-.609	0	% 100
31	M26	X	1.054	1.054	0	% 100
32	M26	Z	-.609	-.609	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M27	X	1.924	1.924	0	%100
34	M27	Z	-1.111	-1.111	0	%100
35	M28	X	1.924	1.924	0	%100
36	M28	Z	-1.111	-1.111	0	%100
37	MP4A	X	7.86	7.86	0	%100
38	MP4A	Z	-4.538	-4.538	0	%100
39	MP3A	X	7.86	7.86	0	%100
40	MP3A	Z	-4.538	-4.538	0	%100
41	MP2A	X	7.86	7.86	0	%100
42	MP2A	Z	-4.538	-4.538	0	%100
43	MP1A	X	7.86	7.86	0	%100
44	MP1A	Z	-4.538	-4.538	0	%100
45	M44	X	2.068	2.068	0	%100
46	M44	Z	-1.194	-1.194	0	%100
47	M45	X	2.068	2.068	0	%100
48	M45	Z	-1.194	-1.194	0	%100
49	M46	X	2.068	2.068	0	%100
50	M46	Z	-1.194	-1.194	0	%100
51	M47	X	2.068	2.068	0	%100
52	M47	Z	-1.194	-1.194	0	%100
53	M43	X	10.357	10.357	0	%100
54	M43	Z	-5.979	-5.979	0	%100
55	M46A	X	7.86	7.86	0	%100
56	M46A	Z	-4.538	-4.538	0	%100
57	M47A	X	7.86	7.86	0	%100
58	M47A	Z	-4.538	-4.538	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M57	X	0	0	0	%100
62	M57	Z	0	0	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	0	0	0	%100
67	M60	X	3.233	3.233	0	%100
68	M60	Z	-1.867	-1.867	0	%100
69	M61	X	3.233	3.233	0	%100
70	M61	Z	-1.867	-1.867	0	%100
71	M62	X	3.233	3.233	0	%100
72	M62	Z	-1.867	-1.867	0	%100
73	OVP2	X	3.233	3.233	0	%100
74	OVP2	Z	-1.867	-1.867	0	%100
75	M64	X	2.068	2.068	0	%100
76	M64	Z	-1.194	-1.194	0	%100
77	M65	X	2.068	2.068	0	%100
78	M65	Z	-1.194	-1.194	0	%100
79	M66	X	2.068	2.068	0	%100
80	M66	Z	-1.194	-1.194	0	%100
81	M67	X	2.068	2.068	0	%100
82	M67	Z	-1.194	-1.194	0	%100
83	M68	X	1.675	1.675	0	%100
84	M68	Z	-.967	-.967	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, %]
85	M69	X	1.675	1.675	0	% 100
86	M69	Z	-.967	-.967	0	% 100
87	M70	X	1.675	1.675	0	% 100
88	M70	Z	-.967	-.967	0	% 100
89	M71	X	1.675	1.675	0	% 100
90	M71	Z	-.967	-.967	0	% 100
91	MP4C	X	7.86	7.86	0	% 100
92	MP4C	Z	-4.538	-4.538	0	% 100
93	MP3C	X	7.86	7.86	0	% 100
94	MP3C	Z	-4.538	-4.538	0	% 100
95	MP2C	X	7.86	7.86	0	% 100
96	MP2C	Z	-4.538	-4.538	0	% 100
97	MP1C	X	7.86	7.86	0	% 100
98	MP1C	Z	-4.538	-4.538	0	% 100
99	M76	X	2.068	2.068	0	% 100
100	M76	Z	-1.194	-1.194	0	% 100
101	M77	X	2.068	2.068	0	% 100
102	M77	Z	-1.194	-1.194	0	% 100
103	M78	X	2.068	2.068	0	% 100
104	M78	Z	-1.194	-1.194	0	% 100
105	M79	X	2.068	2.068	0	% 100
106	M79	Z	-1.194	-1.194	0	% 100
107	M86	X	10.357	10.357	0	% 100
108	M86	Z	-5.979	-5.979	0	% 100
109	M89	X	1.965	1.965	0	% 100
110	M89	Z	-1.134	-1.134	0	% 100
111	M90	X	1.965	1.965	0	% 100
112	M90	Z	-1.134	-1.134	0	% 100
113	M99	X	1.551	1.551	0	% 100
114	M99	Z	-.896	-.896	0	% 100
115	M100	X	1.551	1.551	0	% 100
116	M100	Z	-.896	-.896	0	% 100
117	M101	X	1.551	1.551	0	% 100
118	M101	Z	-.896	-.896	0	% 100
119	M102	X	1.551	1.551	0	% 100
120	M102	Z	-.896	-.896	0	% 100
121	M103	X	4.488	4.488	0	% 100
122	M103	Z	-2.591	-2.591	0	% 100
123	M104	X	4.488	4.488	0	% 100
124	M104	Z	-2.591	-2.591	0	% 100
125	M105	X	.103	.103	0	% 100
126	M105	Z	-.059	-.059	0	% 100
127	OVP	X	.103	.103	0	% 100
128	OVP	Z	-.059	-.059	0	% 100
129	M107	X	.517	.517	0	% 100
130	M107	Z	-.299	-.299	0	% 100
131	M108	X	.517	.517	0	% 100
132	M108	Z	-.299	-.299	0	% 100
133	M109	X	.517	.517	0	% 100
134	M109	Z	-.299	-.299	0	% 100
135	M110	X	.517	.517	0	% 100
136	M110	Z	-.299	-.299	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
137	M111	X	1.924	1.924	0	%100
138	M111	Z	-1.111	-1.111	0	%100
139	M112	X	1.924	1.924	0	%100
140	M112	Z	-1.111	-1.111	0	%100
141	M113	X	1.054	1.054	0	%100
142	M113	Z	-609	-609	0	%100
143	M114	X	1.054	1.054	0	%100
144	M114	Z	-609	-609	0	%100
145	MP4B	X	7.86	7.86	0	%100
146	MP4B	Z	-4.538	-4.538	0	%100
147	MP3B	X	7.86	7.86	0	%100
148	MP3B	Z	-4.538	-4.538	0	%100
149	MP2B	X	7.86	7.86	0	%100
150	MP2B	Z	-4.538	-4.538	0	%100
151	MP1B	X	7.86	7.86	0	%100
152	MP1B	Z	-4.538	-4.538	0	%100
153	M119	X	2.068	2.068	0	%100
154	M119	Z	-1.194	-1.194	0	%100
155	M120	X	2.068	2.068	0	%100
156	M120	Z	-1.194	-1.194	0	%100
157	M121	X	2.068	2.068	0	%100
158	M121	Z	-1.194	-1.194	0	%100
159	M122	X	2.068	2.068	0	%100
160	M122	Z	-1.194	-1.194	0	%100
161	M129	X	10.357	10.357	0	%100
162	M129	Z	-5.979	-5.979	0	%100
163	M132	X	1.689	1.689	0	%100
164	M132	Z	-975	-975	0	%100
165	M134	X	2.154	2.154	0	%100
166	M134	Z	-1.244	-1.244	0	%100
167	M136	X	7.383	7.383	0	%100
168	M136	Z	-4.262	-4.262	0	%100
169	OVP3	X	7.163	7.163	0	%100
170	OVP3	Z	-4.135	-4.135	0	%100
171	OVP1	X	7.163	7.163	0	%100
172	OVP1	Z	-4.135	-4.135	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.388	2.388	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.388	2.388	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	2.388	2.388	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.388	2.388	0	%100
12	M16	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M17	X	2.289	2.289	0	% 100
14	M17	Z	0	0	0	% 100
15	M18	X	2.289	2.289	0	% 100
16	M18	Z	0	0	0	% 100
17	M19	X	2.289	2.289	0	% 100
18	M19	Z	0	0	0	% 100
19	M20	X	2.289	2.289	0	% 100
20	M20	Z	0	0	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	0	0	0	% 100
23	M22	X	0	0	0	% 100
24	M22	Z	0	0	0	% 100
25	M23	X	0	0	0	% 100
26	M23	Z	0	0	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	0	0	0	% 100
29	M25	X	1.648	1.648	0	% 100
30	M25	Z	0	0	0	% 100
31	M26	X	1.648	1.648	0	% 100
32	M26	Z	0	0	0	% 100
33	M27	X	1.648	1.648	0	% 100
34	M27	Z	0	0	0	% 100
35	M28	X	1.648	1.648	0	% 100
36	M28	Z	0	0	0	% 100
37	MP4A	X	9.076	9.076	0	% 100
38	MP4A	Z	0	0	0	% 100
39	MP3A	X	9.076	9.076	0	% 100
40	MP3A	Z	0	0	0	% 100
41	MP2A	X	9.076	9.076	0	% 100
42	MP2A	Z	0	0	0	% 100
43	MP1A	X	9.076	9.076	0	% 100
44	MP1A	Z	0	0	0	% 100
45	M44	X	2.388	2.388	0	% 100
46	M44	Z	0	0	0	% 100
47	M45	X	2.388	2.388	0	% 100
48	M45	Z	0	0	0	% 100
49	M46	X	2.388	2.388	0	% 100
50	M46	Z	0	0	0	% 100
51	M47	X	2.388	2.388	0	% 100
52	M47	Z	0	0	0	% 100
53	M43	X	11.959	11.959	0	% 100
54	M43	Z	0	0	0	% 100
55	M46A	X	6.807	6.807	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	6.807	6.807	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	.597	.597	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	.597	.597	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	.597	.597	0	% 100
64	M58	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	M59	X	.597	.597	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	.841	.841	0	% 100
68	M60	Z	0	0	0	% 100
69	M61	X	.841	.841	0	% 100
70	M61	Z	0	0	0	% 100
71	M62	X	5.904	5.904	0	% 100
72	M62	Z	0	0	0	% 100
73	OVP2	X	5.904	5.904	0	% 100
74	OVP2	Z	0	0	0	% 100
75	M64	X	1.791	1.791	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	1.791	1.791	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	1.791	1.791	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	1.791	1.791	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	1.361	1.361	0	% 100
84	M68	Z	0	0	0	% 100
85	M69	X	1.361	1.361	0	% 100
86	M69	Z	0	0	0	% 100
87	M70	X	2.365	2.365	0	% 100
88	M70	Z	0	0	0	% 100
89	M71	X	2.365	2.365	0	% 100
90	M71	Z	0	0	0	% 100
91	MP4C	X	9.076	9.076	0	% 100
92	MP4C	Z	0	0	0	% 100
93	MP3C	X	9.076	9.076	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP2C	X	9.076	9.076	0	% 100
96	MP2C	Z	0	0	0	% 100
97	MP1C	X	9.076	9.076	0	% 100
98	MP1C	Z	0	0	0	% 100
99	M76	X	2.388	2.388	0	% 100
100	M76	Z	0	0	0	% 100
101	M77	X	2.388	2.388	0	% 100
102	M77	Z	0	0	0	% 100
103	M78	X	2.388	2.388	0	% 100
104	M78	Z	0	0	0	% 100
105	M79	X	2.388	2.388	0	% 100
106	M79	Z	0	0	0	% 100
107	M86	X	11.959	11.959	0	% 100
108	M86	Z	0	0	0	% 100
109	M89	X	6.807	6.807	0	% 100
110	M89	Z	0	0	0	% 100
111	M90	X	6.807	6.807	0	% 100
112	M90	Z	0	0	0	% 100
113	M99	X	.597	.597	0	% 100
114	M99	Z	0	0	0	% 100
115	M100	X	.597	.597	0	% 100
116	M100	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
117	M101	X	.597	.597	0	% 100
118	M101	Z	0	0	0	% 100
119	M102	X	.597	.597	0	% 100
120	M102	Z	0	0	0	% 100
121	M103	X	5.904	5.904	0	% 100
122	M103	Z	0	0	0	% 100
123	M104	X	5.904	5.904	0	% 100
124	M104	Z	0	0	0	% 100
125	M105	X	.841	.841	0	% 100
126	M105	Z	0	0	0	% 100
127	OVP	X	.841	.841	0	% 100
128	OVP	Z	0	0	0	% 100
129	M107	X	1.791	1.791	0	% 100
130	M107	Z	0	0	0	% 100
131	M108	X	1.791	1.791	0	% 100
132	M108	Z	0	0	0	% 100
133	M109	X	1.791	1.791	0	% 100
134	M109	Z	0	0	0	% 100
135	M110	X	1.791	1.791	0	% 100
136	M110	Z	0	0	0	% 100
137	M111	X	2.365	2.365	0	% 100
138	M111	Z	0	0	0	% 100
139	M112	X	2.365	2.365	0	% 100
140	M112	Z	0	0	0	% 100
141	M113	X	1.361	1.361	0	% 100
142	M113	Z	0	0	0	% 100
143	M114	X	1.361	1.361	0	% 100
144	M114	Z	0	0	0	% 100
145	MP4B	X	9.076	9.076	0	% 100
146	MP4B	Z	0	0	0	% 100
147	MP3B	X	9.076	9.076	0	% 100
148	MP3B	Z	0	0	0	% 100
149	MP2B	X	9.076	9.076	0	% 100
150	MP2B	Z	0	0	0	% 100
151	MP1B	X	9.076	9.076	0	% 100
152	MP1B	Z	0	0	0	% 100
153	M119	X	2.388	2.388	0	% 100
154	M119	Z	0	0	0	% 100
155	M120	X	2.388	2.388	0	% 100
156	M120	Z	0	0	0	% 100
157	M121	X	2.388	2.388	0	% 100
158	M121	Z	0	0	0	% 100
159	M122	X	2.388	2.388	0	% 100
160	M122	Z	0	0	0	% 100
161	M129	X	11.959	11.959	0	% 100
162	M129	Z	0	0	0	% 100
163	M132	X	6.154	6.154	0	% 100
164	M132	Z	0	0	0	% 100
165	M134	X	.117	.117	0	% 100
166	M134	Z	0	0	0	% 100
167	M136	X	6.692	6.692	0	% 100
168	M136	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
169	OVP3	X	8.271	8.271	0	%100
170	OVP3	Z	0	0	0	%100
171	OVP1	X	8.271	8.271	0	%100
172	OVP1	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	LV	X	1.965	1.965	0	%100
2	LV	Z	1.134	1.134	0	%100
3	M2	X	1.965	1.965	0	%100
4	M2	Z	1.134	1.134	0	%100
5	M13	X	1.551	1.551	0	%100
6	M13	Z	.896	.896	0	%100
7	M14	X	1.551	1.551	0	%100
8	M14	Z	.896	.896	0	%100
9	M15	X	1.551	1.551	0	%100
10	M15	Z	.896	.896	0	%100
11	M16	X	1.551	1.551	0	%100
12	M16	Z	.896	.896	0	%100
13	M17	X	4.488	4.488	0	%100
14	M17	Z	2.591	2.591	0	%100
15	M18	X	4.488	4.488	0	%100
16	M18	Z	2.591	2.591	0	%100
17	M19	X	.103	.103	0	%100
18	M19	Z	.059	.059	0	%100
19	M20	X	.103	.103	0	%100
20	M20	Z	.059	.059	0	%100
21	M21	X	.517	.517	0	%100
22	M21	Z	.299	.299	0	%100
23	M22	X	.517	.517	0	%100
24	M22	Z	.299	.299	0	%100
25	M23	X	.517	.517	0	%100
26	M23	Z	.299	.299	0	%100
27	M24	X	.517	.517	0	%100
28	M24	Z	.299	.299	0	%100
29	M25	X	1.924	1.924	0	%100
30	M25	Z	1.111	1.111	0	%100
31	M26	X	1.924	1.924	0	%100
32	M26	Z	1.111	1.111	0	%100
33	M27	X	1.054	1.054	0	%100
34	M27	Z	.609	.609	0	%100
35	M28	X	1.054	1.054	0	%100
36	M28	Z	.609	.609	0	%100
37	MP4A	X	7.86	7.86	0	%100
38	MP4A	Z	4.538	4.538	0	%100
39	MP3A	X	7.86	7.86	0	%100
40	MP3A	Z	4.538	4.538	0	%100
41	MP2A	X	7.86	7.86	0	%100
42	MP2A	Z	4.538	4.538	0	%100
43	MP1A	X	7.86	7.86	0	%100
44	MP1A	Z	4.538	4.538	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, %]
45	M44	X	2.068	2.068	0	%100
46	M44	Z	1.194	1.194	0	%100
47	M45	X	2.068	2.068	0	%100
48	M45	Z	1.194	1.194	0	%100
49	M46	X	2.068	2.068	0	%100
50	M46	Z	1.194	1.194	0	%100
51	M47	X	2.068	2.068	0	%100
52	M47	Z	1.194	1.194	0	%100
53	M43	X	10.357	10.357	0	%100
54	M43	Z	5.979	5.979	0	%100
55	M46A	X	1.965	1.965	0	%100
56	M46A	Z	1.134	1.134	0	%100
57	M47A	X	1.965	1.965	0	%100
58	M47A	Z	1.134	1.134	0	%100
59	M56	X	1.551	1.551	0	%100
60	M56	Z	.896	.896	0	%100
61	M57	X	1.551	1.551	0	%100
62	M57	Z	.896	.896	0	%100
63	M58	X	1.551	1.551	0	%100
64	M58	Z	.896	.896	0	%100
65	M59	X	1.551	1.551	0	%100
66	M59	Z	.896	.896	0	%100
67	M60	X	.103	.103	0	%100
68	M60	Z	.059	.059	0	%100
69	M61	X	.103	.103	0	%100
70	M61	Z	.059	.059	0	%100
71	M62	X	4.488	4.488	0	%100
72	M62	Z	2.591	2.591	0	%100
73	OVP2	X	4.488	4.488	0	%100
74	OVP2	Z	2.591	2.591	0	%100
75	M64	X	.517	.517	0	%100
76	M64	Z	.299	.299	0	%100
77	M65	X	.517	.517	0	%100
78	M65	Z	.299	.299	0	%100
79	M66	X	.517	.517	0	%100
80	M66	Z	.299	.299	0	%100
81	M67	X	.517	.517	0	%100
82	M67	Z	.299	.299	0	%100
83	M68	X	1.054	1.054	0	%100
84	M68	Z	.609	.609	0	%100
85	M69	X	1.054	1.054	0	%100
86	M69	Z	.609	.609	0	%100
87	M70	X	1.924	1.924	0	%100
88	M70	Z	1.111	1.111	0	%100
89	M71	X	1.924	1.924	0	%100
90	M71	Z	1.111	1.111	0	%100
91	MP4C	X	7.86	7.86	0	%100
92	MP4C	Z	4.538	4.538	0	%100
93	MP3C	X	7.86	7.86	0	%100
94	MP3C	Z	4.538	4.538	0	%100
95	MP2C	X	7.86	7.86	0	%100
96	MP2C	Z	4.538	4.538	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	MP1C	X	7.86	7.86	0	%100
98	MP1C	Z	4.538	4.538	0	%100
99	M76	X	2.068	2.068	0	%100
100	M76	Z	1.194	1.194	0	%100
101	M77	X	2.068	2.068	0	%100
102	M77	Z	1.194	1.194	0	%100
103	M78	X	2.068	2.068	0	%100
104	M78	Z	1.194	1.194	0	%100
105	M79	X	2.068	2.068	0	%100
106	M79	Z	1.194	1.194	0	%100
107	M86	X	10.357	10.357	0	%100
108	M86	Z	5.979	5.979	0	%100
109	M89	X	7.86	7.86	0	%100
110	M89	Z	4.538	4.538	0	%100
111	M90	X	7.86	7.86	0	%100
112	M90	Z	4.538	4.538	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	3.233	3.233	0	%100
122	M103	Z	1.867	1.867	0	%100
123	M104	X	3.233	3.233	0	%100
124	M104	Z	1.867	1.867	0	%100
125	M105	X	3.233	3.233	0	%100
126	M105	Z	1.867	1.867	0	%100
127	OVP	X	3.233	3.233	0	%100
128	OVP	Z	1.867	1.867	0	%100
129	M107	X	2.068	2.068	0	%100
130	M107	Z	1.194	1.194	0	%100
131	M108	X	2.068	2.068	0	%100
132	M108	Z	1.194	1.194	0	%100
133	M109	X	2.068	2.068	0	%100
134	M109	Z	1.194	1.194	0	%100
135	M110	X	2.068	2.068	0	%100
136	M110	Z	1.194	1.194	0	%100
137	M111	X	1.675	1.675	0	%100
138	M111	Z	.967	.967	0	%100
139	M112	X	1.675	1.675	0	%100
140	M112	Z	.967	.967	0	%100
141	M113	X	1.675	1.675	0	%100
142	M113	Z	.967	.967	0	%100
143	M114	X	1.675	1.675	0	%100
144	M114	Z	.967	.967	0	%100
145	MP4B	X	7.86	7.86	0	%100
146	MP4B	Z	4.538	4.538	0	%100
147	MP3B	X	7.86	7.86	0	%100
148	MP3B	Z	4.538	4.538	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
149	MP2B	X	7.86	7.86	0	% 100
150	MP2B	Z	4.538	4.538	0	% 100
151	MP1B	X	7.86	7.86	0	% 100
152	MP1B	Z	4.538	4.538	0	% 100
153	M119	X	2.068	2.068	0	% 100
154	M119	Z	1.194	1.194	0	% 100
155	M120	X	2.068	2.068	0	% 100
156	M120	Z	1.194	1.194	0	% 100
157	M121	X	2.068	2.068	0	% 100
158	M121	Z	1.194	1.194	0	% 100
159	M122	X	2.068	2.068	0	% 100
160	M122	Z	1.194	1.194	0	% 100
161	M129	X	10.357	10.357	0	% 100
162	M129	Z	5.979	5.979	0	% 100
163	M132	X	7.383	7.383	0	% 100
164	M132	Z	4.262	4.262	0	% 100
165	M134	X	1.689	1.689	0	% 100
166	M134	Z	.975	.975	0	% 100
167	M136	X	2.154	2.154	0	% 100
168	M136	Z	1.244	1.244	0	% 100
169	OVP3	X	7.163	7.163	0	% 100
170	OVP3	Z	4.135	4.135	0	% 100
171	OVP1	X	7.163	7.163	0	% 100
172	OVP1	Z	4.135	4.135	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	LV	X	3.403	3.403	0	% 100
2	LV	Z	5.895	5.895	0	% 100
3	M2	X	3.403	3.403	0	% 100
4	M2	Z	5.895	5.895	0	% 100
5	M13	X	.299	.299	0	% 100
6	M13	Z	.517	.517	0	% 100
7	M14	X	.299	.299	0	% 100
8	M14	Z	.517	.517	0	% 100
9	M15	X	.299	.299	0	% 100
10	M15	Z	.517	.517	0	% 100
11	M16	X	.299	.299	0	% 100
12	M16	Z	.517	.517	0	% 100
13	M17	X	2.952	2.952	0	% 100
14	M17	Z	5.113	5.113	0	% 100
15	M18	X	2.952	2.952	0	% 100
16	M18	Z	5.113	5.113	0	% 100
17	M19	X	.42	.42	0	% 100
18	M19	Z	.728	.728	0	% 100
19	M20	X	.42	.42	0	% 100
20	M20	Z	.728	.728	0	% 100
21	M21	X	.896	.896	0	% 100
22	M21	Z	1.551	1.551	0	% 100
23	M22	X	.896	.896	0	% 100
24	M22	Z	1.551	1.551	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M23	X	.896	.896	0	%100
26	M23	Z	1.551	1.551	0	%100
27	M24	X	.896	.896	0	%100
28	M24	Z	1.551	1.551	0	%100
29	M25	X	1.182	1.182	0	%100
30	M25	Z	2.048	2.048	0	%100
31	M26	X	1.182	1.182	0	%100
32	M26	Z	2.048	2.048	0	%100
33	M27	X	.68	.68	0	%100
34	M27	Z	1.178	1.178	0	%100
35	M28	X	.68	.68	0	%100
36	M28	Z	1.178	1.178	0	%100
37	MP4A	X	4.538	4.538	0	%100
38	MP4A	Z	7.86	7.86	0	%100
39	MP3A	X	4.538	4.538	0	%100
40	MP3A	Z	7.86	7.86	0	%100
41	MP2A	X	4.538	4.538	0	%100
42	MP2A	Z	7.86	7.86	0	%100
43	MP1A	X	4.538	4.538	0	%100
44	MP1A	Z	7.86	7.86	0	%100
45	M44	X	1.194	1.194	0	%100
46	M44	Z	2.068	2.068	0	%100
47	M45	X	1.194	1.194	0	%100
48	M45	Z	2.068	2.068	0	%100
49	M46	X	1.194	1.194	0	%100
50	M46	Z	2.068	2.068	0	%100
51	M47	X	1.194	1.194	0	%100
52	M47	Z	2.068	2.068	0	%100
53	M43	X	5.979	5.979	0	%100
54	M43	Z	10.357	10.357	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	0	0	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M56	X	1.194	1.194	0	%100
60	M56	Z	2.068	2.068	0	%100
61	M57	X	1.194	1.194	0	%100
62	M57	Z	2.068	2.068	0	%100
63	M58	X	1.194	1.194	0	%100
64	M58	Z	2.068	2.068	0	%100
65	M59	X	1.194	1.194	0	%100
66	M59	Z	2.068	2.068	0	%100
67	M60	X	1.145	1.145	0	%100
68	M60	Z	1.983	1.983	0	%100
69	M61	X	1.145	1.145	0	%100
70	M61	Z	1.983	1.983	0	%100
71	M62	X	1.145	1.145	0	%100
72	M62	Z	1.983	1.983	0	%100
73	OVP2	X	1.145	1.145	0	%100
74	OVP2	Z	1.983	1.983	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
77	M65	X	0	0	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	.824	.824	0	% 100
84	M68	Z	1.427	1.427	0	% 100
85	M69	X	.824	.824	0	% 100
86	M69	Z	1.427	1.427	0	% 100
87	M70	X	.824	.824	0	% 100
88	M70	Z	1.427	1.427	0	% 100
89	M71	X	.824	.824	0	% 100
90	M71	Z	1.427	1.427	0	% 100
91	MP4C	X	4.538	4.538	0	% 100
92	MP4C	Z	7.86	7.86	0	% 100
93	MP3C	X	4.538	4.538	0	% 100
94	MP3C	Z	7.86	7.86	0	% 100
95	MP2C	X	4.538	4.538	0	% 100
96	MP2C	Z	7.86	7.86	0	% 100
97	MP1C	X	4.538	4.538	0	% 100
98	MP1C	Z	7.86	7.86	0	% 100
99	M76	X	1.194	1.194	0	% 100
100	M76	Z	2.068	2.068	0	% 100
101	M77	X	1.194	1.194	0	% 100
102	M77	Z	2.068	2.068	0	% 100
103	M78	X	1.194	1.194	0	% 100
104	M78	Z	2.068	2.068	0	% 100
105	M79	X	1.194	1.194	0	% 100
106	M79	Z	2.068	2.068	0	% 100
107	M86	X	5.979	5.979	0	% 100
108	M86	Z	10.357	10.357	0	% 100
109	M89	X	3.403	3.403	0	% 100
110	M89	Z	5.895	5.895	0	% 100
111	M90	X	3.403	3.403	0	% 100
112	M90	Z	5.895	5.895	0	% 100
113	M99	X	.299	.299	0	% 100
114	M99	Z	.517	.517	0	% 100
115	M100	X	.299	.299	0	% 100
116	M100	Z	.517	.517	0	% 100
117	M101	X	.299	.299	0	% 100
118	M101	Z	.517	.517	0	% 100
119	M102	X	.299	.299	0	% 100
120	M102	Z	.517	.517	0	% 100
121	M103	X	.42	.42	0	% 100
122	M103	Z	.728	.728	0	% 100
123	M104	X	.42	.42	0	% 100
124	M104	Z	.728	.728	0	% 100
125	M105	X	2.952	2.952	0	% 100
126	M105	Z	5.113	5.113	0	% 100
127	OVP	X	2.952	2.952	0	% 100
128	OVP	Z	5.113	5.113	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
129	M107	X	.896	.896	0	%100
130	M107	Z	1.551	1.551	0	%100
131	M108	X	.896	.896	0	%100
132	M108	Z	1.551	1.551	0	%100
133	M109	X	.896	.896	0	%100
134	M109	Z	1.551	1.551	0	%100
135	M110	X	.896	.896	0	%100
136	M110	Z	1.551	1.551	0	%100
137	M111	X	.68	.68	0	%100
138	M111	Z	1.178	1.178	0	%100
139	M112	X	.68	.68	0	%100
140	M112	Z	1.178	1.178	0	%100
141	M113	X	1.182	1.182	0	%100
142	M113	Z	2.048	2.048	0	%100
143	M114	X	1.182	1.182	0	%100
144	M114	Z	2.048	2.048	0	%100
145	MP4B	X	4.538	4.538	0	%100
146	MP4B	Z	7.86	7.86	0	%100
147	MP3B	X	4.538	4.538	0	%100
148	MP3B	Z	7.86	7.86	0	%100
149	MP2B	X	4.538	4.538	0	%100
150	MP2B	Z	7.86	7.86	0	%100
151	MP1B	X	4.538	4.538	0	%100
152	MP1B	Z	7.86	7.86	0	%100
153	M119	X	1.194	1.194	0	%100
154	M119	Z	2.068	2.068	0	%100
155	M120	X	1.194	1.194	0	%100
156	M120	Z	2.068	2.068	0	%100
157	M121	X	1.194	1.194	0	%100
158	M121	Z	2.068	2.068	0	%100
159	M122	X	1.194	1.194	0	%100
160	M122	Z	2.068	2.068	0	%100
161	M129	X	5.979	5.979	0	%100
162	M129	Z	10.357	10.357	0	%100
163	M132	X	3.346	3.346	0	%100
164	M132	Z	5.795	5.795	0	%100
165	M134	X	3.077	3.077	0	%100
166	M134	Z	5.329	5.329	0	%100
167	M136	X	.058	.058	0	%100
168	M136	Z	.101	.101	0	%100
169	OVP3	X	4.135	4.135	0	%100
170	OVP3	Z	7.163	7.163	0	%100
171	OVP1	X	4.135	4.135	0	%100
172	OVP1	Z	7.163	7.163	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	LV	X	0	0	0	%100
2	LV	Z	9.076	9.076	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.076	9.076	0	%100



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**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, %]
5	M13	X	0	0	0	% 100
6	M13	Z	0	0	0	% 100
7	M14	X	0	0	0	% 100
8	M14	Z	0	0	0	% 100
9	M15	X	0	0	0	% 100
10	M15	Z	0	0	0	% 100
11	M16	X	0	0	0	% 100
12	M16	Z	0	0	0	% 100
13	M17	X	0	0	0	% 100
14	M17	Z	3.733	3.733	0	% 100
15	M18	X	0	0	0	% 100
16	M18	Z	3.733	3.733	0	% 100
17	M19	X	0	0	0	% 100
18	M19	Z	3.733	3.733	0	% 100
19	M20	X	0	0	0	% 100
20	M20	Z	3.733	3.733	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	2.388	2.388	0	% 100
23	M22	X	0	0	0	% 100
24	M22	Z	2.388	2.388	0	% 100
25	M23	X	0	0	0	% 100
26	M23	Z	2.388	2.388	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	2.388	2.388	0	% 100
29	M25	X	0	0	0	% 100
30	M25	Z	1.934	1.934	0	% 100
31	M26	X	0	0	0	% 100
32	M26	Z	1.934	1.934	0	% 100
33	M27	X	0	0	0	% 100
34	M27	Z	1.934	1.934	0	% 100
35	M28	X	0	0	0	% 100
36	M28	Z	1.934	1.934	0	% 100
37	MP4A	X	0	0	0	% 100
38	MP4A	Z	9.076	9.076	0	% 100
39	MP3A	X	0	0	0	% 100
40	MP3A	Z	9.076	9.076	0	% 100
41	MP2A	X	0	0	0	% 100
42	MP2A	Z	9.076	9.076	0	% 100
43	MP1A	X	0	0	0	% 100
44	MP1A	Z	9.076	9.076	0	% 100
45	M44	X	0	0	0	% 100
46	M44	Z	2.388	2.388	0	% 100
47	M45	X	0	0	0	% 100
48	M45	Z	2.388	2.388	0	% 100
49	M46	X	0	0	0	% 100
50	M46	Z	2.388	2.388	0	% 100
51	M47	X	0	0	0	% 100
52	M47	Z	2.388	2.388	0	% 100
53	M43	X	0	0	0	% 100
54	M43	Z	11.959	11.959	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	2.269	2.269	0	% 100



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**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,%]
57	M47A	X	0	0	0	%100
58	M47A	Z	2.269	2.269	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	1.791	1.791	0	%100
61	M57	X	0	0	0	%100
62	M57	Z	1.791	1.791	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	1.791	1.791	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	1.791	1.791	0	%100
67	M60	X	0	0	0	%100
68	M60	Z	5.182	5.182	0	%100
69	M61	X	0	0	0	%100
70	M61	Z	5.182	5.182	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	.118	.118	0	%100
73	OVP2	X	0	0	0	%100
74	OVP2	Z	.118	.118	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	.597	.597	0	%100
77	M65	X	0	0	0	%100
78	M65	Z	.597	.597	0	%100
79	M66	X	0	0	0	%100
80	M66	Z	.597	.597	0	%100
81	M67	X	0	0	0	%100
82	M67	Z	.597	.597	0	%100
83	M68	X	0	0	0	%100
84	M68	Z	2.222	2.222	0	%100
85	M69	X	0	0	0	%100
86	M69	Z	2.222	2.222	0	%100
87	M70	X	0	0	0	%100
88	M70	Z	1.217	1.217	0	%100
89	M71	X	0	0	0	%100
90	M71	Z	1.217	1.217	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	9.076	9.076	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	9.076	9.076	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	9.076	9.076	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	9.076	9.076	0	%100
99	M76	X	0	0	0	%100
100	M76	Z	2.388	2.388	0	%100
101	M77	X	0	0	0	%100
102	M77	Z	2.388	2.388	0	%100
103	M78	X	0	0	0	%100
104	M78	Z	2.388	2.388	0	%100
105	M79	X	0	0	0	%100
106	M79	Z	2.388	2.388	0	%100
107	M86	X	0	0	0	%100
108	M86	Z	11.959	11.959	0	%100



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**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, %]
109	M89	X	0	0	0 %100
110	M89	Z	2.269	2.269	0 %100
111	M90	X	0	0	0 %100
112	M90	Z	2.269	2.269	0 %100
113	M99	X	0	0	0 %100
114	M99	Z	1.791	1.791	0 %100
115	M100	X	0	0	0 %100
116	M100	Z	1.791	1.791	0 %100
117	M101	X	0	0	0 %100
118	M101	Z	1.791	1.791	0 %100
119	M102	X	0	0	0 %100
120	M102	Z	1.791	1.791	0 %100
121	M103	X	0	0	0 %100
122	M103	Z	.118	.118	0 %100
123	M104	X	0	0	0 %100
124	M104	Z	.118	.118	0 %100
125	M105	X	0	0	0 %100
126	M105	Z	5.182	5.182	0 %100
127	OVP	X	0	0	0 %100
128	OVP	Z	5.182	5.182	0 %100
129	M107	X	0	0	0 %100
130	M107	Z	.597	.597	0 %100
131	M108	X	0	0	0 %100
132	M108	Z	.597	.597	0 %100
133	M109	X	0	0	0 %100
134	M109	Z	.597	.597	0 %100
135	M110	X	0	0	0 %100
136	M110	Z	.597	.597	0 %100
137	M111	X	0	0	0 %100
138	M111	Z	1.217	1.217	0 %100
139	M112	X	0	0	0 %100
140	M112	Z	1.217	1.217	0 %100
141	M113	X	0	0	0 %100
142	M113	Z	2.222	2.222	0 %100
143	M114	X	0	0	0 %100
144	M114	Z	2.222	2.222	0 %100
145	MP4B	X	0	0	0 %100
146	MP4B	Z	9.076	9.076	0 %100
147	MP3B	X	0	0	0 %100
148	MP3B	Z	9.076	9.076	0 %100
149	MP2B	X	0	0	0 %100
150	MP2B	Z	9.076	9.076	0 %100
151	MP1B	X	0	0	0 %100
152	MP1B	Z	9.076	9.076	0 %100
153	M119	X	0	0	0 %100
154	M119	Z	2.388	2.388	0 %100
155	M120	X	0	0	0 %100
156	M120	Z	2.388	2.388	0 %100
157	M121	X	0	0	0 %100
158	M121	Z	2.388	2.388	0 %100
159	M122	X	0	0	0 %100
160	M122	Z	2.388	2.388	0 %100



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**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,%]
161	M129	X	0	0	0	%100
162	M129	Z	11.959	11.959	0	%100
163	M132	X	0	0	0	%100
164	M132	Z	2.488	2.488	0	%100
165	M134	X	0	0	0	%100
166	M134	Z	8.525	8.525	0	%100
167	M136	X	0	0	0	%100
168	M136	Z	1.95	1.95	0	%100
169	OVP3	X	0	0	0	%100
170	OVP3	Z	8.271	8.271	0	%100
171	OVP1	X	0	0	0	%100
172	OVP1	Z	8.271	8.271	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	LV	X	-3.403	-3.403	0	%100
2	LV	Z	5.895	5.895	0	%100
3	M2	X	-3.403	-3.403	0	%100
4	M2	Z	5.895	5.895	0	%100
5	M13	X	-.299	-.299	0	%100
6	M13	Z	.517	.517	0	%100
7	M14	X	-.299	-.299	0	%100
8	M14	Z	.517	.517	0	%100
9	M15	X	-.299	-.299	0	%100
10	M15	Z	.517	.517	0	%100
11	M16	X	-.299	-.299	0	%100
12	M16	Z	.517	.517	0	%100
13	M17	X	-.42	-.42	0	%100
14	M17	Z	.728	.728	0	%100
15	M18	X	-.42	-.42	0	%100
16	M18	Z	.728	.728	0	%100
17	M19	X	-2.952	-2.952	0	%100
18	M19	Z	5.113	5.113	0	%100
19	M20	X	-2.952	-2.952	0	%100
20	M20	Z	5.113	5.113	0	%100
21	M21	X	-.896	-.896	0	%100
22	M21	Z	1.551	1.551	0	%100
23	M22	X	-.896	-.896	0	%100
24	M22	Z	1.551	1.551	0	%100
25	M23	X	-.896	-.896	0	%100
26	M23	Z	1.551	1.551	0	%100
27	M24	X	-.896	-.896	0	%100
28	M24	Z	1.551	1.551	0	%100
29	M25	X	-.68	-.68	0	%100
30	M25	Z	1.178	1.178	0	%100
31	M26	X	-.68	-.68	0	%100
32	M26	Z	1.178	1.178	0	%100
33	M27	X	-1.182	-1.182	0	%100
34	M27	Z	2.048	2.048	0	%100
35	M28	X	-1.182	-1.182	0	%100
36	M28	Z	2.048	2.048	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP4A	X	-4.538	-4.538	0	% 100
38	MP4A	Z	7.86	7.86	0	% 100
39	MP3A	X	-4.538	-4.538	0	% 100
40	MP3A	Z	7.86	7.86	0	% 100
41	MP2A	X	-4.538	-4.538	0	% 100
42	MP2A	Z	7.86	7.86	0	% 100
43	MP1A	X	-4.538	-4.538	0	% 100
44	MP1A	Z	7.86	7.86	0	% 100
45	M44	X	-1.194	-1.194	0	% 100
46	M44	Z	2.068	2.068	0	% 100
47	M45	X	-1.194	-1.194	0	% 100
48	M45	Z	2.068	2.068	0	% 100
49	M46	X	-1.194	-1.194	0	% 100
50	M46	Z	2.068	2.068	0	% 100
51	M47	X	-1.194	-1.194	0	% 100
52	M47	Z	2.068	2.068	0	% 100
53	M43	X	-5.979	-5.979	0	% 100
54	M43	Z	10.357	10.357	0	% 100
55	M46A	X	-3.403	-3.403	0	% 100
56	M46A	Z	5.895	5.895	0	% 100
57	M47A	X	-3.403	-3.403	0	% 100
58	M47A	Z	5.895	5.895	0	% 100
59	M56	X	-.299	-.299	0	% 100
60	M56	Z	.517	.517	0	% 100
61	M57	X	-.299	-.299	0	% 100
62	M57	Z	.517	.517	0	% 100
63	M58	X	-.299	-.299	0	% 100
64	M58	Z	.517	.517	0	% 100
65	M59	X	-.299	-.299	0	% 100
66	M59	Z	.517	.517	0	% 100
67	M60	X	-2.952	-2.952	0	% 100
68	M60	Z	5.113	5.113	0	% 100
69	M61	X	-2.952	-2.952	0	% 100
70	M61	Z	5.113	5.113	0	% 100
71	M62	X	-.42	-.42	0	% 100
72	M62	Z	.728	.728	0	% 100
73	OVP2	X	-.42	-.42	0	% 100
74	OVP2	Z	.728	.728	0	% 100
75	M64	X	-.896	-.896	0	% 100
76	M64	Z	1.551	1.551	0	% 100
77	M65	X	-.896	-.896	0	% 100
78	M65	Z	1.551	1.551	0	% 100
79	M66	X	-.896	-.896	0	% 100
80	M66	Z	1.551	1.551	0	% 100
81	M67	X	-.896	-.896	0	% 100
82	M67	Z	1.551	1.551	0	% 100
83	M68	X	-1.182	-1.182	0	% 100
84	M68	Z	2.048	2.048	0	% 100
85	M69	X	-1.182	-1.182	0	% 100
86	M69	Z	2.048	2.048	0	% 100
87	M70	X	-.68	-.68	0	% 100
88	M70	Z	1.178	1.178	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,%]
89	M71	X	- .68	- .68	0	% 100
90	M71	Z	1.178	1.178	0	% 100
91	MP4C	X	-4.538	-4.538	0	% 100
92	MP4C	Z	7.86	7.86	0	% 100
93	MP3C	X	-4.538	-4.538	0	% 100
94	MP3C	Z	7.86	7.86	0	% 100
95	MP2C	X	-4.538	-4.538	0	% 100
96	MP2C	Z	7.86	7.86	0	% 100
97	MP1C	X	-4.538	-4.538	0	% 100
98	MP1C	Z	7.86	7.86	0	% 100
99	M76	X	-1.194	-1.194	0	% 100
100	M76	Z	2.068	2.068	0	% 100
101	M77	X	-1.194	-1.194	0	% 100
102	M77	Z	2.068	2.068	0	% 100
103	M78	X	-1.194	-1.194	0	% 100
104	M78	Z	2.068	2.068	0	% 100
105	M79	X	-1.194	-1.194	0	% 100
106	M79	Z	2.068	2.068	0	% 100
107	M86	X	-5.979	-5.979	0	% 100
108	M86	Z	10.357	10.357	0	% 100
109	M89	X	0	0	0	% 100
110	M89	Z	0	0	0	% 100
111	M90	X	0	0	0	% 100
112	M90	Z	0	0	0	% 100
113	M99	X	-1.194	-1.194	0	% 100
114	M99	Z	2.068	2.068	0	% 100
115	M100	X	-1.194	-1.194	0	% 100
116	M100	Z	2.068	2.068	0	% 100
117	M101	X	-1.194	-1.194	0	% 100
118	M101	Z	2.068	2.068	0	% 100
119	M102	X	-1.194	-1.194	0	% 100
120	M102	Z	2.068	2.068	0	% 100
121	M103	X	-1.145	-1.145	0	% 100
122	M103	Z	1.983	1.983	0	% 100
123	M104	X	-1.145	-1.145	0	% 100
124	M104	Z	1.983	1.983	0	% 100
125	M105	X	-1.145	-1.145	0	% 100
126	M105	Z	1.983	1.983	0	% 100
127	OVP	X	-1.145	-1.145	0	% 100
128	OVP	Z	1.983	1.983	0	% 100
129	M107	X	0	0	0	% 100
130	M107	Z	0	0	0	% 100
131	M108	X	0	0	0	% 100
132	M108	Z	0	0	0	% 100
133	M109	X	0	0	0	% 100
134	M109	Z	0	0	0	% 100
135	M110	X	0	0	0	% 100
136	M110	Z	0	0	0	% 100
137	M111	X	- .824	- .824	0	% 100
138	M111	Z	1.427	1.427	0	% 100
139	M112	X	- .824	- .824	0	% 100
140	M112	Z	1.427	1.427	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, %]
141	M113	X	- .824	- .824	0	% 100
142	M113	Z	1.427	1.427	0	% 100
143	M114	X	- .824	- .824	0	% 100
144	M114	Z	1.427	1.427	0	% 100
145	MP4B	X	-4.538	-4.538	0	% 100
146	MP4B	Z	7.86	7.86	0	% 100
147	MP3B	X	-4.538	-4.538	0	% 100
148	MP3B	Z	7.86	7.86	0	% 100
149	MP2B	X	-4.538	-4.538	0	% 100
150	MP2B	Z	7.86	7.86	0	% 100
151	MP1B	X	-4.538	-4.538	0	% 100
152	MP1B	Z	7.86	7.86	0	% 100
153	M119	X	-1.194	-1.194	0	% 100
154	M119	Z	2.068	2.068	0	% 100
155	M120	X	-1.194	-1.194	0	% 100
156	M120	Z	2.068	2.068	0	% 100
157	M121	X	-1.194	-1.194	0	% 100
158	M121	Z	2.068	2.068	0	% 100
159	M122	X	-1.194	-1.194	0	% 100
160	M122	Z	2.068	2.068	0	% 100
161	M129	X	-5.979	-5.979	0	% 100
162	M129	Z	10.357	10.357	0	% 100
163	M132	X	- .058	- .058	0	% 100
164	M132	Z	.101	.101	0	% 100
165	M134	X	-3.346	-3.346	0	% 100
166	M134	Z	5.795	5.795	0	% 100
167	M136	X	-3.077	-3.077	0	% 100
168	M136	Z	5.329	5.329	0	% 100
169	OVP3	X	-4.135	-4.135	0	% 100
170	OVP3	Z	7.163	7.163	0	% 100
171	OVP1	X	-4.135	-4.135	0	% 100
172	OVP1	Z	7.163	7.163	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	LV	X	-1.965	-1.965	0	% 100
2	LV	Z	1.134	1.134	0	% 100
3	M2	X	-1.965	-1.965	0	% 100
4	M2	Z	1.134	1.134	0	% 100
5	M13	X	-1.551	-1.551	0	% 100
6	M13	Z	.896	.896	0	% 100
7	M14	X	-1.551	-1.551	0	% 100
8	M14	Z	.896	.896	0	% 100
9	M15	X	-1.551	-1.551	0	% 100
10	M15	Z	.896	.896	0	% 100
11	M16	X	-1.551	-1.551	0	% 100
12	M16	Z	.896	.896	0	% 100
13	M17	X	- .103	- .103	0	% 100
14	M17	Z	.059	.059	0	% 100
15	M18	X	- .103	- .103	0	% 100
16	M18	Z	.059	.059	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, %]
17	M19	X	-4.488	-4.488	0	% 100
18	M19	Z	2.591	2.591	0	% 100
19	M20	X	-4.488	-4.488	0	% 100
20	M20	Z	2.591	2.591	0	% 100
21	M21	X	-.517	-.517	0	% 100
22	M21	Z	.299	.299	0	% 100
23	M22	X	-.517	-.517	0	% 100
24	M22	Z	.299	.299	0	% 100
25	M23	X	-.517	-.517	0	% 100
26	M23	Z	.299	.299	0	% 100
27	M24	X	-.517	-.517	0	% 100
28	M24	Z	.299	.299	0	% 100
29	M25	X	-1.054	-1.054	0	% 100
30	M25	Z	.609	.609	0	% 100
31	M26	X	-1.054	-1.054	0	% 100
32	M26	Z	.609	.609	0	% 100
33	M27	X	-1.924	-1.924	0	% 100
34	M27	Z	1.111	1.111	0	% 100
35	M28	X	-1.924	-1.924	0	% 100
36	M28	Z	1.111	1.111	0	% 100
37	MP4A	X	-7.86	-7.86	0	% 100
38	MP4A	Z	4.538	4.538	0	% 100
39	MP3A	X	-7.86	-7.86	0	% 100
40	MP3A	Z	4.538	4.538	0	% 100
41	MP2A	X	-7.86	-7.86	0	% 100
42	MP2A	Z	4.538	4.538	0	% 100
43	MP1A	X	-7.86	-7.86	0	% 100
44	MP1A	Z	4.538	4.538	0	% 100
45	M44	X	-2.068	-2.068	0	% 100
46	M44	Z	1.194	1.194	0	% 100
47	M45	X	-2.068	-2.068	0	% 100
48	M45	Z	1.194	1.194	0	% 100
49	M46	X	-2.068	-2.068	0	% 100
50	M46	Z	1.194	1.194	0	% 100
51	M47	X	-2.068	-2.068	0	% 100
52	M47	Z	1.194	1.194	0	% 100
53	M43	X	-10.357	-10.357	0	% 100
54	M43	Z	5.979	5.979	0	% 100
55	M46A	X	-7.86	-7.86	0	% 100
56	M46A	Z	4.538	4.538	0	% 100
57	M47A	X	-7.86	-7.86	0	% 100
58	M47A	Z	4.538	4.538	0	% 100
59	M56	X	0	0	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	0	0	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	0	0	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	0	0	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	-3.233	-3.233	0	% 100
68	M60	Z	1.867	1.867	0	% 100



Company :  
 Designer :  
 Job Number :  
 Model Name :

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**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, %]
69	M61	X	-3.233	-3.233	0	% 100
70	M61	Z	1.867	1.867	0	% 100
71	M62	X	-3.233	-3.233	0	% 100
72	M62	Z	1.867	1.867	0	% 100
73	OVP2	X	-3.233	-3.233	0	% 100
74	OVP2	Z	1.867	1.867	0	% 100
75	M64	X	-2.068	-2.068	0	% 100
76	M64	Z	1.194	1.194	0	% 100
77	M65	X	-2.068	-2.068	0	% 100
78	M65	Z	1.194	1.194	0	% 100
79	M66	X	-2.068	-2.068	0	% 100
80	M66	Z	1.194	1.194	0	% 100
81	M67	X	-2.068	-2.068	0	% 100
82	M67	Z	1.194	1.194	0	% 100
83	M68	X	-1.675	-1.675	0	% 100
84	M68	Z	.967	.967	0	% 100
85	M69	X	-1.675	-1.675	0	% 100
86	M69	Z	.967	.967	0	% 100
87	M70	X	-1.675	-1.675	0	% 100
88	M70	Z	.967	.967	0	% 100
89	M71	X	-1.675	-1.675	0	% 100
90	M71	Z	.967	.967	0	% 100
91	MP4C	X	-7.86	-7.86	0	% 100
92	MP4C	Z	4.538	4.538	0	% 100
93	MP3C	X	-7.86	-7.86	0	% 100
94	MP3C	Z	4.538	4.538	0	% 100
95	MP2C	X	-7.86	-7.86	0	% 100
96	MP2C	Z	4.538	4.538	0	% 100
97	MP1C	X	-7.86	-7.86	0	% 100
98	MP1C	Z	4.538	4.538	0	% 100
99	M76	X	-2.068	-2.068	0	% 100
100	M76	Z	1.194	1.194	0	% 100
101	M77	X	-2.068	-2.068	0	% 100
102	M77	Z	1.194	1.194	0	% 100
103	M78	X	-2.068	-2.068	0	% 100
104	M78	Z	1.194	1.194	0	% 100
105	M79	X	-2.068	-2.068	0	% 100
106	M79	Z	1.194	1.194	0	% 100
107	M86	X	-10.357	-10.357	0	% 100
108	M86	Z	5.979	5.979	0	% 100
109	M89	X	-1.965	-1.965	0	% 100
110	M89	Z	1.134	1.134	0	% 100
111	M90	X	-1.965	-1.965	0	% 100
112	M90	Z	1.134	1.134	0	% 100
113	M99	X	-1.551	-1.551	0	% 100
114	M99	Z	.896	.896	0	% 100
115	M100	X	-1.551	-1.551	0	% 100
116	M100	Z	.896	.896	0	% 100
117	M101	X	-1.551	-1.551	0	% 100
118	M101	Z	.896	.896	0	% 100
119	M102	X	-1.551	-1.551	0	% 100
120	M102	Z	.896	.896	0	% 100



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**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, %]
121	M103	X	-4.488	-4.488	0	%100
122	M103	Z	2.591	2.591	0	%100
123	M104	X	-4.488	-4.488	0	%100
124	M104	Z	2.591	2.591	0	%100
125	M105	X	-.103	-.103	0	%100
126	M105	Z	.059	.059	0	%100
127	OVP	X	-.103	-.103	0	%100
128	OVP	Z	.059	.059	0	%100
129	M107	X	-.517	-.517	0	%100
130	M107	Z	.299	.299	0	%100
131	M108	X	-.517	-.517	0	%100
132	M108	Z	.299	.299	0	%100
133	M109	X	-.517	-.517	0	%100
134	M109	Z	.299	.299	0	%100
135	M110	X	-.517	-.517	0	%100
136	M110	Z	.299	.299	0	%100
137	M111	X	-1.924	-1.924	0	%100
138	M111	Z	1.111	1.111	0	%100
139	M112	X	-1.924	-1.924	0	%100
140	M112	Z	1.111	1.111	0	%100
141	M113	X	-1.054	-1.054	0	%100
142	M113	Z	.609	.609	0	%100
143	M114	X	-1.054	-1.054	0	%100
144	M114	Z	.609	.609	0	%100
145	MP4B	X	-7.86	-7.86	0	%100
146	MP4B	Z	4.538	4.538	0	%100
147	MP3B	X	-7.86	-7.86	0	%100
148	MP3B	Z	4.538	4.538	0	%100
149	MP2B	X	-7.86	-7.86	0	%100
150	MP2B	Z	4.538	4.538	0	%100
151	MP1B	X	-7.86	-7.86	0	%100
152	MP1B	Z	4.538	4.538	0	%100
153	M119	X	-2.068	-2.068	0	%100
154	M119	Z	1.194	1.194	0	%100
155	M120	X	-2.068	-2.068	0	%100
156	M120	Z	1.194	1.194	0	%100
157	M121	X	-2.068	-2.068	0	%100
158	M121	Z	1.194	1.194	0	%100
159	M122	X	-2.068	-2.068	0	%100
160	M122	Z	1.194	1.194	0	%100
161	M129	X	-10.357	-10.357	0	%100
162	M129	Z	5.979	5.979	0	%100
163	M132	X	-1.689	-1.689	0	%100
164	M132	Z	.975	.975	0	%100
165	M134	X	-2.154	-2.154	0	%100
166	M134	Z	1.244	1.244	0	%100
167	M136	X	-7.383	-7.383	0	%100
168	M136	Z	4.262	4.262	0	%100
169	OVP3	X	-7.163	-7.163	0	%100
170	OVP3	Z	4.135	4.135	0	%100
171	OVP1	X	-7.163	-7.163	0	%100
172	OVP1	Z	4.135	4.135	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	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-2.388	-2.388	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-2.388	-2.388	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-2.388	-2.388	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-2.388	-2.388	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.289	-2.289	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.289	-2.289	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.289	-2.289	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-2.289	-2.289	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.648	-1.648	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.648	-1.648	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.648	-1.648	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.648	-1.648	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-9.076	-9.076	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-9.076	-9.076	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-9.076	-9.076	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-9.076	-9.076	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-2.388	-2.388	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-2.388	-2.388	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-2.388	-2.388	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-2.388	-2.388	0	%100
52	M47	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, %]
53	M43	X	-11.959	-11.959	0	% 100
54	M43	Z	0	0	0	% 100
55	M46A	X	-6.807	-6.807	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	-6.807	-6.807	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	-5.597	-5.597	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	-5.597	-5.597	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	-5.597	-5.597	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	-5.597	-5.597	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	-841	-841	0	% 100
68	M60	Z	0	0	0	% 100
69	M61	X	-841	-841	0	% 100
70	M61	Z	0	0	0	% 100
71	M62	X	-5.904	-5.904	0	% 100
72	M62	Z	0	0	0	% 100
73	OVP2	X	-5.904	-5.904	0	% 100
74	OVP2	Z	0	0	0	% 100
75	M64	X	-1.791	-1.791	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	-1.791	-1.791	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	-1.791	-1.791	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	-1.791	-1.791	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	-1.361	-1.361	0	% 100
84	M68	Z	0	0	0	% 100
85	M69	X	-1.361	-1.361	0	% 100
86	M69	Z	0	0	0	% 100
87	M70	X	-2.365	-2.365	0	% 100
88	M70	Z	0	0	0	% 100
89	M71	X	-2.365	-2.365	0	% 100
90	M71	Z	0	0	0	% 100
91	MP4C	X	-9.076	-9.076	0	% 100
92	MP4C	Z	0	0	0	% 100
93	MP3C	X	-9.076	-9.076	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP2C	X	-9.076	-9.076	0	% 100
96	MP2C	Z	0	0	0	% 100
97	MP1C	X	-9.076	-9.076	0	% 100
98	MP1C	Z	0	0	0	% 100
99	M76	X	-2.388	-2.388	0	% 100
100	M76	Z	0	0	0	% 100
101	M77	X	-2.388	-2.388	0	% 100
102	M77	Z	0	0	0	% 100
103	M78	X	-2.388	-2.388	0	% 100
104	M78	Z	0	0	0	% 100



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**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, %]
105	M79	X	-2.388	-2.388	0	%100
106	M79	Z	0	0	0	%100
107	M86	X	-11.959	-11.959	0	%100
108	M86	Z	0	0	0	%100
109	M89	X	-6.807	-6.807	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	-6.807	-6.807	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	-.597	-.597	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	-.597	-.597	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	-.597	-.597	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	-.597	-.597	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	-5.904	-5.904	0	%100
122	M103	Z	0	0	0	%100
123	M104	X	-5.904	-5.904	0	%100
124	M104	Z	0	0	0	%100
125	M105	X	-.841	-.841	0	%100
126	M105	Z	0	0	0	%100
127	OVP	X	-.841	-.841	0	%100
128	OVP	Z	0	0	0	%100
129	M107	X	-1.791	-1.791	0	%100
130	M107	Z	0	0	0	%100
131	M108	X	-1.791	-1.791	0	%100
132	M108	Z	0	0	0	%100
133	M109	X	-1.791	-1.791	0	%100
134	M109	Z	0	0	0	%100
135	M110	X	-1.791	-1.791	0	%100
136	M110	Z	0	0	0	%100
137	M111	X	-2.365	-2.365	0	%100
138	M111	Z	0	0	0	%100
139	M112	X	-2.365	-2.365	0	%100
140	M112	Z	0	0	0	%100
141	M113	X	-1.361	-1.361	0	%100
142	M113	Z	0	0	0	%100
143	M114	X	-1.361	-1.361	0	%100
144	M114	Z	0	0	0	%100
145	MP4B	X	-9.076	-9.076	0	%100
146	MP4B	Z	0	0	0	%100
147	MP3B	X	-9.076	-9.076	0	%100
148	MP3B	Z	0	0	0	%100
149	MP2B	X	-9.076	-9.076	0	%100
150	MP2B	Z	0	0	0	%100
151	MP1B	X	-9.076	-9.076	0	%100
152	MP1B	Z	0	0	0	%100
153	M119	X	-2.388	-2.388	0	%100
154	M119	Z	0	0	0	%100
155	M120	X	-2.388	-2.388	0	%100
156	M120	Z	0	0	0	%100



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**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, %]
157	M121	X	-2.388	-2.388	0	% 100
158	M121	Z	0	0	0	% 100
159	M122	X	-2.388	-2.388	0	% 100
160	M122	Z	0	0	0	% 100
161	M129	X	-11.959	-11.959	0	% 100
162	M129	Z	0	0	0	% 100
163	M132	X	-6.154	-6.154	0	% 100
164	M132	Z	0	0	0	% 100
165	M134	X	-.117	-.117	0	% 100
166	M134	Z	0	0	0	% 100
167	M136	X	-6.692	-6.692	0	% 100
168	M136	Z	0	0	0	% 100
169	OVP3	X	-8.271	-8.271	0	% 100
170	OVP3	Z	0	0	0	% 100
171	OVP1	X	-8.271	-8.271	0	% 100
172	OVP1	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	LV	X	-1.965	-1.965	0	% 100
2	LV	Z	-1.134	-1.134	0	% 100
3	M2	X	-1.965	-1.965	0	% 100
4	M2	Z	-1.134	-1.134	0	% 100
5	M13	X	-1.551	-1.551	0	% 100
6	M13	Z	-.896	-.896	0	% 100
7	M14	X	-1.551	-1.551	0	% 100
8	M14	Z	-.896	-.896	0	% 100
9	M15	X	-1.551	-1.551	0	% 100
10	M15	Z	-.896	-.896	0	% 100
11	M16	X	-1.551	-1.551	0	% 100
12	M16	Z	-.896	-.896	0	% 100
13	M17	X	-4.488	-4.488	0	% 100
14	M17	Z	-2.591	-2.591	0	% 100
15	M18	X	-4.488	-4.488	0	% 100
16	M18	Z	-2.591	-2.591	0	% 100
17	M19	X	-.103	-.103	0	% 100
18	M19	Z	-.059	-.059	0	% 100
19	M20	X	-.103	-.103	0	% 100
20	M20	Z	-.059	-.059	0	% 100
21	M21	X	-.517	-.517	0	% 100
22	M21	Z	-.299	-.299	0	% 100
23	M22	X	-.517	-.517	0	% 100
24	M22	Z	-.299	-.299	0	% 100
25	M23	X	-.517	-.517	0	% 100
26	M23	Z	-.299	-.299	0	% 100
27	M24	X	-.517	-.517	0	% 100
28	M24	Z	-.299	-.299	0	% 100
29	M25	X	-1.924	-1.924	0	% 100
30	M25	Z	-1.111	-1.111	0	% 100
31	M26	X	-1.924	-1.924	0	% 100
32	M26	Z	-1.111	-1.111	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, %]
33	M27	X	-1.054	-1.054	0	% 100
34	M27	Z	-.609	-.609	0	% 100
35	M28	X	-1.054	-1.054	0	% 100
36	M28	Z	-.609	-.609	0	% 100
37	MP4A	X	-7.86	-7.86	0	% 100
38	MP4A	Z	-4.538	-4.538	0	% 100
39	MP3A	X	-7.86	-7.86	0	% 100
40	MP3A	Z	-4.538	-4.538	0	% 100
41	MP2A	X	-7.86	-7.86	0	% 100
42	MP2A	Z	-4.538	-4.538	0	% 100
43	MP1A	X	-7.86	-7.86	0	% 100
44	MP1A	Z	-4.538	-4.538	0	% 100
45	M44	X	-2.068	-2.068	0	% 100
46	M44	Z	-1.194	-1.194	0	% 100
47	M45	X	-2.068	-2.068	0	% 100
48	M45	Z	-1.194	-1.194	0	% 100
49	M46	X	-2.068	-2.068	0	% 100
50	M46	Z	-1.194	-1.194	0	% 100
51	M47	X	-2.068	-2.068	0	% 100
52	M47	Z	-1.194	-1.194	0	% 100
53	M43	X	-10.357	-10.357	0	% 100
54	M43	Z	-5.979	-5.979	0	% 100
55	M46A	X	-1.965	-1.965	0	% 100
56	M46A	Z	-1.134	-1.134	0	% 100
57	M47A	X	-1.965	-1.965	0	% 100
58	M47A	Z	-1.134	-1.134	0	% 100
59	M56	X	-1.551	-1.551	0	% 100
60	M56	Z	-.896	-.896	0	% 100
61	M57	X	-1.551	-1.551	0	% 100
62	M57	Z	-.896	-.896	0	% 100
63	M58	X	-1.551	-1.551	0	% 100
64	M58	Z	-.896	-.896	0	% 100
65	M59	X	-1.551	-1.551	0	% 100
66	M59	Z	-.896	-.896	0	% 100
67	M60	X	-.103	-.103	0	% 100
68	M60	Z	-.059	-.059	0	% 100
69	M61	X	-.103	-.103	0	% 100
70	M61	Z	-.059	-.059	0	% 100
71	M62	X	-4.488	-4.488	0	% 100
72	M62	Z	-2.591	-2.591	0	% 100
73	OVP2	X	-4.488	-4.488	0	% 100
74	OVP2	Z	-2.591	-2.591	0	% 100
75	M64	X	-.517	-.517	0	% 100
76	M64	Z	-.299	-.299	0	% 100
77	M65	X	-.517	-.517	0	% 100
78	M65	Z	-.299	-.299	0	% 100
79	M66	X	-.517	-.517	0	% 100
80	M66	Z	-.299	-.299	0	% 100
81	M67	X	-.517	-.517	0	% 100
82	M67	Z	-.299	-.299	0	% 100
83	M68	X	-1.054	-1.054	0	% 100
84	M68	Z	-.609	-.609	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft, %]	End Location(ft, %]
85	M69	X	-1.054	-1.054	0	%100
86	M69	Z	- .609	- .609	0	%100
87	M70	X	-1.924	-1.924	0	%100
88	M70	Z	-1.111	-1.111	0	%100
89	M71	X	-1.924	-1.924	0	%100
90	M71	Z	-1.111	-1.111	0	%100
91	MP4C	X	-7.86	-7.86	0	%100
92	MP4C	Z	-4.538	-4.538	0	%100
93	MP3C	X	-7.86	-7.86	0	%100
94	MP3C	Z	-4.538	-4.538	0	%100
95	MP2C	X	-7.86	-7.86	0	%100
96	MP2C	Z	-4.538	-4.538	0	%100
97	MP1C	X	-7.86	-7.86	0	%100
98	MP1C	Z	-4.538	-4.538	0	%100
99	M76	X	-2.068	-2.068	0	%100
100	M76	Z	-1.194	-1.194	0	%100
101	M77	X	-2.068	-2.068	0	%100
102	M77	Z	-1.194	-1.194	0	%100
103	M78	X	-2.068	-2.068	0	%100
104	M78	Z	-1.194	-1.194	0	%100
105	M79	X	-2.068	-2.068	0	%100
106	M79	Z	-1.194	-1.194	0	%100
107	M86	X	-10.357	-10.357	0	%100
108	M86	Z	-5.979	-5.979	0	%100
109	M89	X	-7.86	-7.86	0	%100
110	M89	Z	-4.538	-4.538	0	%100
111	M90	X	-7.86	-7.86	0	%100
112	M90	Z	-4.538	-4.538	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	-3.233	-3.233	0	%100
122	M103	Z	-1.867	-1.867	0	%100
123	M104	X	-3.233	-3.233	0	%100
124	M104	Z	-1.867	-1.867	0	%100
125	M105	X	-3.233	-3.233	0	%100
126	M105	Z	-1.867	-1.867	0	%100
127	OVP	X	-3.233	-3.233	0	%100
128	OVP	Z	-1.867	-1.867	0	%100
129	M107	X	-2.068	-2.068	0	%100
130	M107	Z	-1.194	-1.194	0	%100
131	M108	X	-2.068	-2.068	0	%100
132	M108	Z	-1.194	-1.194	0	%100
133	M109	X	-2.068	-2.068	0	%100
134	M109	Z	-1.194	-1.194	0	%100
135	M110	X	-2.068	-2.068	0	%100
136	M110	Z	-1.194	-1.194	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, %]
137	M111	X	-1.675	-1.675	0	%100
138	M111	Z	-.967	-.967	0	%100
139	M112	X	-1.675	-1.675	0	%100
140	M112	Z	-.967	-.967	0	%100
141	M113	X	-1.675	-1.675	0	%100
142	M113	Z	-.967	-.967	0	%100
143	M114	X	-1.675	-1.675	0	%100
144	M114	Z	-.967	-.967	0	%100
145	MP4B	X	-7.86	-7.86	0	%100
146	MP4B	Z	-4.538	-4.538	0	%100
147	MP3B	X	-7.86	-7.86	0	%100
148	MP3B	Z	-4.538	-4.538	0	%100
149	MP2B	X	-7.86	-7.86	0	%100
150	MP2B	Z	-4.538	-4.538	0	%100
151	MP1B	X	-7.86	-7.86	0	%100
152	MP1B	Z	-4.538	-4.538	0	%100
153	M119	X	-2.068	-2.068	0	%100
154	M119	Z	-1.194	-1.194	0	%100
155	M120	X	-2.068	-2.068	0	%100
156	M120	Z	-1.194	-1.194	0	%100
157	M121	X	-2.068	-2.068	0	%100
158	M121	Z	-1.194	-1.194	0	%100
159	M122	X	-2.068	-2.068	0	%100
160	M122	Z	-1.194	-1.194	0	%100
161	M129	X	-10.357	-10.357	0	%100
162	M129	Z	-5.979	-5.979	0	%100
163	M132	X	-7.383	-7.383	0	%100
164	M132	Z	-4.262	-4.262	0	%100
165	M134	X	-1.689	-1.689	0	%100
166	M134	Z	-.975	-.975	0	%100
167	M136	X	-2.154	-2.154	0	%100
168	M136	Z	-1.244	-1.244	0	%100
169	OVP3	X	-7.163	-7.163	0	%100
170	OVP3	Z	-4.135	-4.135	0	%100
171	OVP1	X	-7.163	-7.163	0	%100
172	OVP1	Z	-4.135	-4.135	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	LV	X	-3.403	-3.403	0	%100
2	LV	Z	-5.895	-5.895	0	%100
3	M2	X	-3.403	-3.403	0	%100
4	M2	Z	-5.895	-5.895	0	%100
5	M13	X	-.299	-.299	0	%100
6	M13	Z	-.517	-.517	0	%100
7	M14	X	-.299	-.299	0	%100
8	M14	Z	-.517	-.517	0	%100
9	M15	X	-.299	-.299	0	%100
10	M15	Z	-.517	-.517	0	%100
11	M16	X	-.299	-.299	0	%100
12	M16	Z	-.517	-.517	0	%100



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**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,%]
13	M17	X	-2.952	-2.952	0	%100
14	M17	Z	-5.113	-5.113	0	%100
15	M18	X	-2.952	-2.952	0	%100
16	M18	Z	-5.113	-5.113	0	%100
17	M19	X	-.42	-.42	0	%100
18	M19	Z	-.728	-.728	0	%100
19	M20	X	-.42	-.42	0	%100
20	M20	Z	-.728	-.728	0	%100
21	M21	X	-.896	-.896	0	%100
22	M21	Z	-1.551	-1.551	0	%100
23	M22	X	-.896	-.896	0	%100
24	M22	Z	-1.551	-1.551	0	%100
25	M23	X	-.896	-.896	0	%100
26	M23	Z	-1.551	-1.551	0	%100
27	M24	X	-.896	-.896	0	%100
28	M24	Z	-1.551	-1.551	0	%100
29	M25	X	-1.182	-1.182	0	%100
30	M25	Z	-2.048	-2.048	0	%100
31	M26	X	-1.182	-1.182	0	%100
32	M26	Z	-2.048	-2.048	0	%100
33	M27	X	-.68	-.68	0	%100
34	M27	Z	-1.178	-1.178	0	%100
35	M28	X	-.68	-.68	0	%100
36	M28	Z	-1.178	-1.178	0	%100
37	MP4A	X	-4.538	-4.538	0	%100
38	MP4A	Z	-7.86	-7.86	0	%100
39	MP3A	X	-4.538	-4.538	0	%100
40	MP3A	Z	-7.86	-7.86	0	%100
41	MP2A	X	-4.538	-4.538	0	%100
42	MP2A	Z	-7.86	-7.86	0	%100
43	MP1A	X	-4.538	-4.538	0	%100
44	MP1A	Z	-7.86	-7.86	0	%100
45	M44	X	-1.194	-1.194	0	%100
46	M44	Z	-2.068	-2.068	0	%100
47	M45	X	-1.194	-1.194	0	%100
48	M45	Z	-2.068	-2.068	0	%100
49	M46	X	-1.194	-1.194	0	%100
50	M46	Z	-2.068	-2.068	0	%100
51	M47	X	-1.194	-1.194	0	%100
52	M47	Z	-2.068	-2.068	0	%100
53	M43	X	-5.979	-5.979	0	%100
54	M43	Z	-10.357	-10.357	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	0	0	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M56	X	-1.194	-1.194	0	%100
60	M56	Z	-2.068	-2.068	0	%100
61	M57	X	-1.194	-1.194	0	%100
62	M57	Z	-2.068	-2.068	0	%100
63	M58	X	-1.194	-1.194	0	%100
64	M58	Z	-2.068	-2.068	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, %]
65	M59	X	-1.194	-1.194	0	% 100
66	M59	Z	-2.068	-2.068	0	% 100
67	M60	X	-1.145	-1.145	0	% 100
68	M60	Z	-1.983	-1.983	0	% 100
69	M61	X	-1.145	-1.145	0	% 100
70	M61	Z	-1.983	-1.983	0	% 100
71	M62	X	-1.145	-1.145	0	% 100
72	M62	Z	-1.983	-1.983	0	% 100
73	OVP2	X	-1.145	-1.145	0	% 100
74	OVP2	Z	-1.983	-1.983	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	-0.824	-0.824	0	% 100
84	M68	Z	-1.427	-1.427	0	% 100
85	M69	X	-0.824	-0.824	0	% 100
86	M69	Z	-1.427	-1.427	0	% 100
87	M70	X	-0.824	-0.824	0	% 100
88	M70	Z	-1.427	-1.427	0	% 100
89	M71	X	-0.824	-0.824	0	% 100
90	M71	Z	-1.427	-1.427	0	% 100
91	MP4C	X	-4.538	-4.538	0	% 100
92	MP4C	Z	-7.86	-7.86	0	% 100
93	MP3C	X	-4.538	-4.538	0	% 100
94	MP3C	Z	-7.86	-7.86	0	% 100
95	MP2C	X	-4.538	-4.538	0	% 100
96	MP2C	Z	-7.86	-7.86	0	% 100
97	MP1C	X	-4.538	-4.538	0	% 100
98	MP1C	Z	-7.86	-7.86	0	% 100
99	M76	X	-1.194	-1.194	0	% 100
100	M76	Z	-2.068	-2.068	0	% 100
101	M77	X	-1.194	-1.194	0	% 100
102	M77	Z	-2.068	-2.068	0	% 100
103	M78	X	-1.194	-1.194	0	% 100
104	M78	Z	-2.068	-2.068	0	% 100
105	M79	X	-1.194	-1.194	0	% 100
106	M79	Z	-2.068	-2.068	0	% 100
107	M86	X	-5.979	-5.979	0	% 100
108	M86	Z	-10.357	-10.357	0	% 100
109	M89	X	-3.403	-3.403	0	% 100
110	M89	Z	-5.895	-5.895	0	% 100
111	M90	X	-3.403	-3.403	0	% 100
112	M90	Z	-5.895	-5.895	0	% 100
113	M99	X	-0.299	-0.299	0	% 100
114	M99	Z	-0.517	-0.517	0	% 100
115	M100	X	-0.299	-0.299	0	% 100
116	M100	Z	-0.517	-0.517	0	% 100



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**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, %]
117	M101	X	- .299	- .299	0	% 100
118	M101	Z	- .517	- .517	0	% 100
119	M102	X	- .299	- .299	0	% 100
120	M102	Z	- .517	- .517	0	% 100
121	M103	X	- .42	- .42	0	% 100
122	M103	Z	- .728	- .728	0	% 100
123	M104	X	- .42	- .42	0	% 100
124	M104	Z	- .728	- .728	0	% 100
125	M105	X	-2.952	-2.952	0	% 100
126	M105	Z	-5.113	-5.113	0	% 100
127	OVP	X	-2.952	-2.952	0	% 100
128	OVP	Z	-5.113	-5.113	0	% 100
129	M107	X	- .896	- .896	0	% 100
130	M107	Z	-1.551	-1.551	0	% 100
131	M108	X	- .896	- .896	0	% 100
132	M108	Z	-1.551	-1.551	0	% 100
133	M109	X	- .896	- .896	0	% 100
134	M109	Z	-1.551	-1.551	0	% 100
135	M110	X	- .896	- .896	0	% 100
136	M110	Z	-1.551	-1.551	0	% 100
137	M111	X	- .68	- .68	0	% 100
138	M111	Z	-1.178	-1.178	0	% 100
139	M112	X	- .68	- .68	0	% 100
140	M112	Z	-1.178	-1.178	0	% 100
141	M113	X	-1.182	-1.182	0	% 100
142	M113	Z	-2.048	-2.048	0	% 100
143	M114	X	-1.182	-1.182	0	% 100
144	M114	Z	-2.048	-2.048	0	% 100
145	MP4B	X	-4.538	-4.538	0	% 100
146	MP4B	Z	-7.86	-7.86	0	% 100
147	MP3B	X	-4.538	-4.538	0	% 100
148	MP3B	Z	-7.86	-7.86	0	% 100
149	MP2B	X	-4.538	-4.538	0	% 100
150	MP2B	Z	-7.86	-7.86	0	% 100
151	MP1B	X	-4.538	-4.538	0	% 100
152	MP1B	Z	-7.86	-7.86	0	% 100
153	M119	X	-1.194	-1.194	0	% 100
154	M119	Z	-2.068	-2.068	0	% 100
155	M120	X	-1.194	-1.194	0	% 100
156	M120	Z	-2.068	-2.068	0	% 100
157	M121	X	-1.194	-1.194	0	% 100
158	M121	Z	-2.068	-2.068	0	% 100
159	M122	X	-1.194	-1.194	0	% 100
160	M122	Z	-2.068	-2.068	0	% 100
161	M129	X	-5.979	-5.979	0	% 100
162	M129	Z	-10.357	-10.357	0	% 100
163	M132	X	-3.346	-3.346	0	% 100
164	M132	Z	-5.795	-5.795	0	% 100
165	M134	X	-3.077	-3.077	0	% 100
166	M134	Z	-5.329	-5.329	0	% 100
167	M136	X	- .058	- .058	0	% 100
168	M136	Z	- .101	- .101	0	% 100



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**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,%]
169	OVP3	X	-4.135	-4.135	0	% 100
170	OVP3	Z	-7.163	-7.163	0	% 100
171	OVP1	X	-4.135	-4.135	0	% 100
172	OVP1	Z	-7.163	-7.163	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	LV	X	0	0	0	% 100
2	LV	Z	-4.008	-4.008	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	-4.008	-4.008	0	% 100
5	M13	X	0	0	0	% 100
6	M13	Z	0	0	0	% 100
7	M14	X	0	0	0	% 100
8	M14	Z	0	0	0	% 100
9	M15	X	0	0	0	% 100
10	M15	Z	0	0	0	% 100
11	M16	X	0	0	0	% 100
12	M16	Z	0	0	0	% 100
13	M17	X	0	0	0	% 100
14	M17	Z	-1.705	-1.705	0	% 100
15	M18	X	0	0	0	% 100
16	M18	Z	-1.705	-1.705	0	% 100
17	M19	X	0	0	0	% 100
18	M19	Z	-1.705	-1.705	0	% 100
19	M20	X	0	0	0	% 100
20	M20	Z	-1.705	-1.705	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	-1.807	-1.807	0	% 100
23	M22	X	0	0	0	% 100
24	M22	Z	-1.807	-1.807	0	% 100
25	M23	X	0	0	0	% 100
26	M23	Z	-1.807	-1.807	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	-1.807	-1.807	0	% 100
29	M25	X	0	0	0	% 100
30	M25	Z	-1.82	-1.82	0	% 100
31	M26	X	0	0	0	% 100
32	M26	Z	-1.82	-1.82	0	% 100
33	M27	X	0	0	0	% 100
34	M27	Z	-1.82	-1.82	0	% 100
35	M28	X	0	0	0	% 100
36	M28	Z	-1.82	-1.82	0	% 100
37	MP4A	X	0	0	0	% 100
38	MP4A	Z	-4.005	-4.005	0	% 100
39	MP3A	X	0	0	0	% 100
40	MP3A	Z	-4.005	-4.005	0	% 100
41	MP2A	X	0	0	0	% 100
42	MP2A	Z	-4.005	-4.005	0	% 100
43	MP1A	X	0	0	0	% 100
44	MP1A	Z	-4.005	-4.005	0	% 100



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**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, %]
45	M44	X	0	0	0	% 100
46	M44	Z	-2.086	-2.086	0	% 100
47	M45	X	0	0	0	% 100
48	M45	Z	-2.086	-2.086	0	% 100
49	M46	X	0	0	0	% 100
50	M46	Z	-2.086	-2.086	0	% 100
51	M47	X	0	0	0	% 100
52	M47	Z	-2.086	-2.086	0	% 100
53	M43	X	0	0	0	% 100
54	M43	Z	-4.81	-4.81	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	-1.002	-1.002	0	% 100
57	M47A	X	0	0	0	% 100
58	M47A	Z	-1.002	-1.002	0	% 100
59	M56	X	0	0	0	% 100
60	M56	Z	-1.356	-1.356	0	% 100
61	M57	X	0	0	0	% 100
62	M57	Z	-1.356	-1.356	0	% 100
63	M58	X	0	0	0	% 100
64	M58	Z	-1.356	-1.356	0	% 100
65	M59	X	0	0	0	% 100
66	M59	Z	-1.356	-1.356	0	% 100
67	M60	X	0	0	0	% 100
68	M60	Z	-2.366	-2.366	0	% 100
69	M61	X	0	0	0	% 100
70	M61	Z	-2.366	-2.366	0	% 100
71	M62	X	0	0	0	% 100
72	M62	Z	-.054	-.054	0	% 100
73	OVP2	X	0	0	0	% 100
74	OVP2	Z	-.054	-.054	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	-.452	-.452	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	-.452	-.452	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	-.452	-.452	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	-.452	-.452	0	% 100
83	M68	X	0	0	0	% 100
84	M68	Z	-2.09	-2.09	0	% 100
85	M69	X	0	0	0	% 100
86	M69	Z	-2.09	-2.09	0	% 100
87	M70	X	0	0	0	% 100
88	M70	Z	-1.145	-1.145	0	% 100
89	M71	X	0	0	0	% 100
90	M71	Z	-1.145	-1.145	0	% 100
91	MP4C	X	0	0	0	% 100
92	MP4C	Z	-4.005	-4.005	0	% 100
93	MP3C	X	0	0	0	% 100
94	MP3C	Z	-4.005	-4.005	0	% 100
95	MP2C	X	0	0	0	% 100
96	MP2C	Z	-4.005	-4.005	0	% 100



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**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, %]
97	MP1C	X	0	0	0	% 100
98	MP1C	Z	-4.005	-4.005	0	% 100
99	M76	X	0	0	0	% 100
100	M76	Z	-2.086	-2.086	0	% 100
101	M77	X	0	0	0	% 100
102	M77	Z	-2.086	-2.086	0	% 100
103	M78	X	0	0	0	% 100
104	M78	Z	-2.086	-2.086	0	% 100
105	M79	X	0	0	0	% 100
106	M79	Z	-2.086	-2.086	0	% 100
107	M86	X	0	0	0	% 100
108	M86	Z	-4.81	-4.81	0	% 100
109	M89	X	0	0	0	% 100
110	M89	Z	-1.002	-1.002	0	% 100
111	M90	X	0	0	0	% 100
112	M90	Z	-1.002	-1.002	0	% 100
113	M99	X	0	0	0	% 100
114	M99	Z	-1.356	-1.356	0	% 100
115	M100	X	0	0	0	% 100
116	M100	Z	-1.356	-1.356	0	% 100
117	M101	X	0	0	0	% 100
118	M101	Z	-1.356	-1.356	0	% 100
119	M102	X	0	0	0	% 100
120	M102	Z	-1.356	-1.356	0	% 100
121	M103	X	0	0	0	% 100
122	M103	Z	-.054	-.054	0	% 100
123	M104	X	0	0	0	% 100
124	M104	Z	-.054	-.054	0	% 100
125	M105	X	0	0	0	% 100
126	M105	Z	-2.366	-2.366	0	% 100
127	OVP	X	0	0	0	% 100
128	OVP	Z	-2.366	-2.366	0	% 100
129	M107	X	0	0	0	% 100
130	M107	Z	-.452	-.452	0	% 100
131	M108	X	0	0	0	% 100
132	M108	Z	-.452	-.452	0	% 100
133	M109	X	0	0	0	% 100
134	M109	Z	-.452	-.452	0	% 100
135	M110	X	0	0	0	% 100
136	M110	Z	-.452	-.452	0	% 100
137	M111	X	0	0	0	% 100
138	M111	Z	-1.145	-1.145	0	% 100
139	M112	X	0	0	0	% 100
140	M112	Z	-1.145	-1.145	0	% 100
141	M113	X	0	0	0	% 100
142	M113	Z	-2.09	-2.09	0	% 100
143	M114	X	0	0	0	% 100
144	M114	Z	-2.09	-2.09	0	% 100
145	MP4B	X	0	0	0	% 100
146	MP4B	Z	-4.005	-4.005	0	% 100
147	MP3B	X	0	0	0	% 100
148	MP3B	Z	-4.005	-4.005	0	% 100



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**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, %]
149	MP2B	X	0	0	0	%100
150	MP2B	Z	-4.005	-4.005	0	%100
151	MP1B	X	0	0	0	%100
152	MP1B	Z	-4.005	-4.005	0	%100
153	M119	X	0	0	0	%100
154	M119	Z	-2.086	-2.086	0	%100
155	M120	X	0	0	0	%100
156	M120	Z	-2.086	-2.086	0	%100
157	M121	X	0	0	0	%100
158	M121	Z	-2.086	-2.086	0	%100
159	M122	X	0	0	0	%100
160	M122	Z	-2.086	-2.086	0	%100
161	M129	X	0	0	0	%100
162	M129	Z	-4.81	-4.81	0	%100
163	M132	X	0	0	0	%100
164	M132	Z	-1.017	-1.017	0	%100
165	M134	X	0	0	0	%100
166	M134	Z	-3.486	-3.486	0	%100
167	M136	X	0	0	0	%100
168	M136	Z	-.797	-.797	0	%100
169	OVP3	X	0	0	0	%100
170	OVP3	Z	-3.393	-3.393	0	%100
171	OVP1	X	0	0	0	%100
172	OVP1	Z	-3.393	-3.393	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	LV	X	1.503	1.503	0	%100
2	LV	Z	-2.603	-2.603	0	%100
3	M2	X	1.503	1.503	0	%100
4	M2	Z	-2.603	-2.603	0	%100
5	M13	X	.226	.226	0	%100
6	M13	Z	-.391	-.391	0	%100
7	M14	X	.226	.226	0	%100
8	M14	Z	-.391	-.391	0	%100
9	M15	X	.226	.226	0	%100
10	M15	Z	-.391	-.391	0	%100
11	M16	X	.226	.226	0	%100
12	M16	Z	-.391	-.391	0	%100
13	M17	X	.192	.192	0	%100
14	M17	Z	-.332	-.332	0	%100
15	M18	X	.192	.192	0	%100
16	M18	Z	-.332	-.332	0	%100
17	M19	X	1.348	1.348	0	%100
18	M19	Z	-2.335	-2.335	0	%100
19	M20	X	1.348	1.348	0	%100
20	M20	Z	-2.335	-2.335	0	%100
21	M21	X	.678	.678	0	%100
22	M21	Z	-1.174	-1.174	0	%100
23	M22	X	.678	.678	0	%100
24	M22	Z	-1.174	-1.174	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	M23	X	.678	.678	0	% 100
26	M23	Z	-1.174	-1.174	0	% 100
27	M24	X	.678	.678	0	% 100
28	M24	Z	-1.174	-1.174	0	% 100
29	M25	X	.64	.64	0	% 100
30	M25	Z	-1.109	-1.109	0	% 100
31	M26	X	.64	.64	0	% 100
32	M26	Z	-1.109	-1.109	0	% 100
33	M27	X	1.112	1.112	0	% 100
34	M27	Z	-1.927	-1.927	0	% 100
35	M28	X	1.112	1.112	0	% 100
36	M28	Z	-1.927	-1.927	0	% 100
37	MP4A	X	2.003	2.003	0	% 100
38	MP4A	Z	-3.469	-3.469	0	% 100
39	MP3A	X	2.003	2.003	0	% 100
40	MP3A	Z	-3.469	-3.469	0	% 100
41	MP2A	X	2.003	2.003	0	% 100
42	MP2A	Z	-3.469	-3.469	0	% 100
43	MP1A	X	2.003	2.003	0	% 100
44	MP1A	Z	-3.469	-3.469	0	% 100
45	M44	X	1.043	1.043	0	% 100
46	M44	Z	-1.807	-1.807	0	% 100
47	M45	X	1.043	1.043	0	% 100
48	M45	Z	-1.807	-1.807	0	% 100
49	M46	X	1.043	1.043	0	% 100
50	M46	Z	-1.807	-1.807	0	% 100
51	M47	X	1.043	1.043	0	% 100
52	M47	Z	-1.807	-1.807	0	% 100
53	M43	X	2.405	2.405	0	% 100
54	M43	Z	-4.166	-4.166	0	% 100
55	M46A	X	1.503	1.503	0	% 100
56	M46A	Z	-2.603	-2.603	0	% 100
57	M47A	X	1.503	1.503	0	% 100
58	M47A	Z	-2.603	-2.603	0	% 100
59	M56	X	.226	.226	0	% 100
60	M56	Z	-.391	-.391	0	% 100
61	M57	X	.226	.226	0	% 100
62	M57	Z	-.391	-.391	0	% 100
63	M58	X	.226	.226	0	% 100
64	M58	Z	-.391	-.391	0	% 100
65	M59	X	.226	.226	0	% 100
66	M59	Z	-.391	-.391	0	% 100
67	M60	X	1.348	1.348	0	% 100
68	M60	Z	-2.335	-2.335	0	% 100
69	M61	X	1.348	1.348	0	% 100
70	M61	Z	-2.335	-2.335	0	% 100
71	M62	X	.192	.192	0	% 100
72	M62	Z	-.332	-.332	0	% 100
73	OVP2	X	.192	.192	0	% 100
74	OVP2	Z	-.332	-.332	0	% 100
75	M64	X	.678	.678	0	% 100
76	M64	Z	-1.174	-1.174	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
77	M65	X	.678	.678	0	%100
78	M65	Z	-1.174	-1.174	0	%100
79	M66	X	.678	.678	0	%100
80	M66	Z	-1.174	-1.174	0	%100
81	M67	X	.678	.678	0	%100
82	M67	Z	-1.174	-1.174	0	%100
83	M68	X	1.112	1.112	0	%100
84	M68	Z	-1.927	-1.927	0	%100
85	M69	X	1.112	1.112	0	%100
86	M69	Z	-1.927	-1.927	0	%100
87	M70	X	.64	.64	0	%100
88	M70	Z	-1.109	-1.109	0	%100
89	M71	X	.64	.64	0	%100
90	M71	Z	-1.109	-1.109	0	%100
91	MP4C	X	2.003	2.003	0	%100
92	MP4C	Z	-3.469	-3.469	0	%100
93	MP3C	X	2.003	2.003	0	%100
94	MP3C	Z	-3.469	-3.469	0	%100
95	MP2C	X	2.003	2.003	0	%100
96	MP2C	Z	-3.469	-3.469	0	%100
97	MP1C	X	2.003	2.003	0	%100
98	MP1C	Z	-3.469	-3.469	0	%100
99	M76	X	1.043	1.043	0	%100
100	M76	Z	-1.807	-1.807	0	%100
101	M77	X	1.043	1.043	0	%100
102	M77	Z	-1.807	-1.807	0	%100
103	M78	X	1.043	1.043	0	%100
104	M78	Z	-1.807	-1.807	0	%100
105	M79	X	1.043	1.043	0	%100
106	M79	Z	-1.807	-1.807	0	%100
107	M86	X	2.405	2.405	0	%100
108	M86	Z	-4.166	-4.166	0	%100
109	M89	X	0	0	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	0	0	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	.904	.904	0	%100
114	M99	Z	-1.565	-1.565	0	%100
115	M100	X	.904	.904	0	%100
116	M100	Z	-1.565	-1.565	0	%100
117	M101	X	.904	.904	0	%100
118	M101	Z	-1.565	-1.565	0	%100
119	M102	X	.904	.904	0	%100
120	M102	Z	-1.565	-1.565	0	%100
121	M103	X	.523	.523	0	%100
122	M103	Z	-.905	-.905	0	%100
123	M104	X	.523	.523	0	%100
124	M104	Z	-.905	-.905	0	%100
125	M105	X	.523	.523	0	%100
126	M105	Z	-.905	-.905	0	%100
127	OVP	X	.523	.523	0	%100
128	OVP	Z	-.905	-.905	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, %]
129	M107	X	0	0	0	% 100
130	M107	Z	0	0	0	% 100
131	M108	X	0	0	0	% 100
132	M108	Z	0	0	0	% 100
133	M109	X	0	0	0	% 100
134	M109	Z	0	0	0	% 100
135	M110	X	0	0	0	% 100
136	M110	Z	0	0	0	% 100
137	M111	X	.775	.775	0	% 100
138	M111	Z	-1.343	-1.343	0	% 100
139	M112	X	.775	.775	0	% 100
140	M112	Z	-1.343	-1.343	0	% 100
141	M113	X	.775	.775	0	% 100
142	M113	Z	-1.343	-1.343	0	% 100
143	M114	X	.775	.775	0	% 100
144	M114	Z	-1.343	-1.343	0	% 100
145	MP4B	X	2.003	2.003	0	% 100
146	MP4B	Z	-3.469	-3.469	0	% 100
147	MP3B	X	2.003	2.003	0	% 100
148	MP3B	Z	-3.469	-3.469	0	% 100
149	MP2B	X	2.003	2.003	0	% 100
150	MP2B	Z	-3.469	-3.469	0	% 100
151	MP1B	X	2.003	2.003	0	% 100
152	MP1B	Z	-3.469	-3.469	0	% 100
153	M119	X	1.043	1.043	0	% 100
154	M119	Z	-1.807	-1.807	0	% 100
155	M120	X	1.043	1.043	0	% 100
156	M120	Z	-1.807	-1.807	0	% 100
157	M121	X	1.043	1.043	0	% 100
158	M121	Z	-1.807	-1.807	0	% 100
159	M122	X	1.043	1.043	0	% 100
160	M122	Z	-1.807	-1.807	0	% 100
161	M129	X	2.405	2.405	0	% 100
162	M129	Z	-4.166	-4.166	0	% 100
163	M132	X	.024	.024	0	% 100
164	M132	Z	-.041	-.041	0	% 100
165	M134	X	1.368	1.368	0	% 100
166	M134	Z	-2.369	-2.369	0	% 100
167	M136	X	1.258	1.258	0	% 100
168	M136	Z	-2.179	-2.179	0	% 100
169	OVP3	X	1.697	1.697	0	% 100
170	OVP3	Z	-2.939	-2.939	0	% 100
171	OVP1	X	1.697	1.697	0	% 100
172	OVP1	Z	-2.939	-2.939	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	LV	X	.868	.868	0	% 100
2	LV	Z	-.501	-.501	0	% 100
3	M2	X	.868	.868	0	% 100
4	M2	Z	-.501	-.501	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	M13	X	1.174	1.174	0	% 100
6	M13	Z	- .678	- .678	0	% 100
7	M14	X	1.174	1.174	0	% 100
8	M14	Z	- .678	- .678	0	% 100
9	M15	X	1.174	1.174	0	% 100
10	M15	Z	- .678	- .678	0	% 100
11	M16	X	1.174	1.174	0	% 100
12	M16	Z	- .678	- .678	0	% 100
13	M17	X	.047	.047	0	% 100
14	M17	Z	- .027	- .027	0	% 100
15	M18	X	.047	.047	0	% 100
16	M18	Z	- .027	- .027	0	% 100
17	M19	X	2.049	2.049	0	% 100
18	M19	Z	-1.183	-1.183	0	% 100
19	M20	X	2.049	2.049	0	% 100
20	M20	Z	-1.183	-1.183	0	% 100
21	M21	X	.391	.391	0	% 100
22	M21	Z	- .226	- .226	0	% 100
23	M22	X	.391	.391	0	% 100
24	M22	Z	- .226	- .226	0	% 100
25	M23	X	.391	.391	0	% 100
26	M23	Z	- .226	- .226	0	% 100
27	M24	X	.391	.391	0	% 100
28	M24	Z	- .226	- .226	0	% 100
29	M25	X	.992	.992	0	% 100
30	M25	Z	- .573	- .573	0	% 100
31	M26	X	.992	.992	0	% 100
32	M26	Z	- .573	- .573	0	% 100
33	M27	X	1.81	1.81	0	% 100
34	M27	Z	-1.045	-1.045	0	% 100
35	M28	X	1.81	1.81	0	% 100
36	M28	Z	-1.045	-1.045	0	% 100
37	MP4A	X	3.469	3.469	0	% 100
38	MP4A	Z	-2.003	-2.003	0	% 100
39	MP3A	X	3.469	3.469	0	% 100
40	MP3A	Z	-2.003	-2.003	0	% 100
41	MP2A	X	3.469	3.469	0	% 100
42	MP2A	Z	-2.003	-2.003	0	% 100
43	MP1A	X	3.469	3.469	0	% 100
44	MP1A	Z	-2.003	-2.003	0	% 100
45	M44	X	1.807	1.807	0	% 100
46	M44	Z	-1.043	-1.043	0	% 100
47	M45	X	1.807	1.807	0	% 100
48	M45	Z	-1.043	-1.043	0	% 100
49	M46	X	1.807	1.807	0	% 100
50	M46	Z	-1.043	-1.043	0	% 100
51	M47	X	1.807	1.807	0	% 100
52	M47	Z	-1.043	-1.043	0	% 100
53	M43	X	4.166	4.166	0	% 100
54	M43	Z	-2.405	-2.405	0	% 100
55	M46A	X	3.471	3.471	0	% 100
56	M46A	Z	-2.004	-2.004	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
57	M47A	X	3.471	3.471	0	% 100
58	M47A	Z	-2.004	-2.004	0	% 100
59	M56	X	0	0	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	0	0	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	0	0	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	0	0	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	1.476	1.476	0	% 100
68	M60	Z	-.852	-.852	0	% 100
69	M61	X	1.476	1.476	0	% 100
70	M61	Z	-.852	-.852	0	% 100
71	M62	X	1.476	1.476	0	% 100
72	M62	Z	-.852	-.852	0	% 100
73	OVP2	X	1.476	1.476	0	% 100
74	OVP2	Z	-.852	-.852	0	% 100
75	M64	X	1.565	1.565	0	% 100
76	M64	Z	-.904	-.904	0	% 100
77	M65	X	1.565	1.565	0	% 100
78	M65	Z	-.904	-.904	0	% 100
79	M66	X	1.565	1.565	0	% 100
80	M66	Z	-.904	-.904	0	% 100
81	M67	X	1.565	1.565	0	% 100
82	M67	Z	-.904	-.904	0	% 100
83	M68	X	1.576	1.576	0	% 100
84	M68	Z	-.91	-.91	0	% 100
85	M69	X	1.576	1.576	0	% 100
86	M69	Z	-.91	-.91	0	% 100
87	M70	X	1.576	1.576	0	% 100
88	M70	Z	-.91	-.91	0	% 100
89	M71	X	1.576	1.576	0	% 100
90	M71	Z	-.91	-.91	0	% 100
91	MP4C	X	3.469	3.469	0	% 100
92	MP4C	Z	-2.003	-2.003	0	% 100
93	MP3C	X	3.469	3.469	0	% 100
94	MP3C	Z	-2.003	-2.003	0	% 100
95	MP2C	X	3.469	3.469	0	% 100
96	MP2C	Z	-2.003	-2.003	0	% 100
97	MP1C	X	3.469	3.469	0	% 100
98	MP1C	Z	-2.003	-2.003	0	% 100
99	M76	X	1.807	1.807	0	% 100
100	M76	Z	-1.043	-1.043	0	% 100
101	M77	X	1.807	1.807	0	% 100
102	M77	Z	-1.043	-1.043	0	% 100
103	M78	X	1.807	1.807	0	% 100
104	M78	Z	-1.043	-1.043	0	% 100
105	M79	X	1.807	1.807	0	% 100
106	M79	Z	-1.043	-1.043	0	% 100
107	M86	X	4.166	4.166	0	% 100
108	M86	Z	-2.405	-2.405	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
109	M89	X	.868	.868	0	%100
110	M89	Z	-.501	-.501	0	%100
111	M90	X	.868	.868	0	%100
112	M90	Z	-.501	-.501	0	%100
113	M99	X	1.174	1.174	0	%100
114	M99	Z	-.678	-.678	0	%100
115	M100	X	1.174	1.174	0	%100
116	M100	Z	-.678	-.678	0	%100
117	M101	X	1.174	1.174	0	%100
118	M101	Z	-.678	-.678	0	%100
119	M102	X	1.174	1.174	0	%100
120	M102	Z	-.678	-.678	0	%100
121	M103	X	2.049	2.049	0	%100
122	M103	Z	-1.183	-1.183	0	%100
123	M104	X	2.049	2.049	0	%100
124	M104	Z	-1.183	-1.183	0	%100
125	M105	X	.047	.047	0	%100
126	M105	Z	-.027	-.027	0	%100
127	OVP	X	.047	.047	0	%100
128	OVP	Z	-.027	-.027	0	%100
129	M107	X	.391	.391	0	%100
130	M107	Z	-.226	-.226	0	%100
131	M108	X	.391	.391	0	%100
132	M108	Z	-.226	-.226	0	%100
133	M109	X	.391	.391	0	%100
134	M109	Z	-.226	-.226	0	%100
135	M110	X	.391	.391	0	%100
136	M110	Z	-.226	-.226	0	%100
137	M111	X	1.81	1.81	0	%100
138	M111	Z	-1.045	-1.045	0	%100
139	M112	X	1.81	1.81	0	%100
140	M112	Z	-1.045	-1.045	0	%100
141	M113	X	.992	.992	0	%100
142	M113	Z	-.573	-.573	0	%100
143	M114	X	.992	.992	0	%100
144	M114	Z	-.573	-.573	0	%100
145	MP4B	X	3.469	3.469	0	%100
146	MP4B	Z	-2.003	-2.003	0	%100
147	MP3B	X	3.469	3.469	0	%100
148	MP3B	Z	-2.003	-2.003	0	%100
149	MP2B	X	3.469	3.469	0	%100
150	MP2B	Z	-2.003	-2.003	0	%100
151	MP1B	X	3.469	3.469	0	%100
152	MP1B	Z	-2.003	-2.003	0	%100
153	M119	X	1.807	1.807	0	%100
154	M119	Z	-1.043	-1.043	0	%100
155	M120	X	1.807	1.807	0	%100
156	M120	Z	-1.043	-1.043	0	%100
157	M121	X	1.807	1.807	0	%100
158	M121	Z	-1.043	-1.043	0	%100
159	M122	X	1.807	1.807	0	%100
160	M122	Z	-1.043	-1.043	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, %]
161	M129	X	4.166	4.166	0	% 100
162	M129	Z	-2.405	-2.405	0	% 100
163	M132	X	.69	.69	0	% 100
164	M132	Z	-.399	-.399	0	% 100
165	M134	X	.881	.881	0	% 100
166	M134	Z	-.509	-.509	0	% 100
167	M136	X	3.019	3.019	0	% 100
168	M136	Z	-1.743	-1.743	0	% 100
169	OVP3	X	2.939	2.939	0	% 100
170	OVP3	Z	-1.697	-1.697	0	% 100
171	OVP1	X	2.939	2.939	0	% 100
172	OVP1	Z	-1.697	-1.697	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	LV	X	0	0	0	% 100
2	LV	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M13	X	1.807	1.807	0	% 100
6	M13	Z	0	0	0	% 100
7	M14	X	1.807	1.807	0	% 100
8	M14	Z	0	0	0	% 100
9	M15	X	1.807	1.807	0	% 100
10	M15	Z	0	0	0	% 100
11	M16	X	1.807	1.807	0	% 100
12	M16	Z	0	0	0	% 100
13	M17	X	1.045	1.045	0	% 100
14	M17	Z	0	0	0	% 100
15	M18	X	1.045	1.045	0	% 100
16	M18	Z	0	0	0	% 100
17	M19	X	1.045	1.045	0	% 100
18	M19	Z	0	0	0	% 100
19	M20	X	1.045	1.045	0	% 100
20	M20	Z	0	0	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	0	0	0	% 100
23	M22	X	0	0	0	% 100
24	M22	Z	0	0	0	% 100
25	M23	X	0	0	0	% 100
26	M23	Z	0	0	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	0	0	0	% 100
29	M25	X	1.55	1.55	0	% 100
30	M25	Z	0	0	0	% 100
31	M26	X	1.55	1.55	0	% 100
32	M26	Z	0	0	0	% 100
33	M27	X	1.55	1.55	0	% 100
34	M27	Z	0	0	0	% 100
35	M28	X	1.55	1.55	0	% 100
36	M28	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP4A	X	4.005	4.005	0	% 100
38	MP4A	Z	0	0	0	% 100
39	MP3A	X	4.005	4.005	0	% 100
40	MP3A	Z	0	0	0	% 100
41	MP2A	X	4.005	4.005	0	% 100
42	MP2A	Z	0	0	0	% 100
43	MP1A	X	4.005	4.005	0	% 100
44	MP1A	Z	0	0	0	% 100
45	M44	X	2.086	2.086	0	% 100
46	M44	Z	0	0	0	% 100
47	M45	X	2.086	2.086	0	% 100
48	M45	Z	0	0	0	% 100
49	M46	X	2.086	2.086	0	% 100
50	M46	Z	0	0	0	% 100
51	M47	X	2.086	2.086	0	% 100
52	M47	Z	0	0	0	% 100
53	M43	X	4.81	4.81	0	% 100
54	M43	Z	0	0	0	% 100
55	M46A	X	3.006	3.006	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	3.006	3.006	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	.452	.452	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	.452	.452	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	.452	.452	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	.452	.452	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	.384	.384	0	% 100
68	M60	Z	0	0	0	% 100
69	M61	X	.384	.384	0	% 100
70	M61	Z	0	0	0	% 100
71	M62	X	2.696	2.696	0	% 100
72	M62	Z	0	0	0	% 100
73	OVP2	X	2.696	2.696	0	% 100
74	OVP2	Z	0	0	0	% 100
75	M64	X	1.356	1.356	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	1.356	1.356	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	1.356	1.356	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	1.356	1.356	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	1.28	1.28	0	% 100
84	M68	Z	0	0	0	% 100
85	M69	X	1.28	1.28	0	% 100
86	M69	Z	0	0	0	% 100
87	M70	X	2.225	2.225	0	% 100
88	M70	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
89	M71	X	2.225	2.225	0	% 100
90	M71	Z	0	0	0	% 100
91	MP4C	X	4.005	4.005	0	% 100
92	MP4C	Z	0	0	0	% 100
93	MP3C	X	4.005	4.005	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP2C	X	4.005	4.005	0	% 100
96	MP2C	Z	0	0	0	% 100
97	MP1C	X	4.005	4.005	0	% 100
98	MP1C	Z	0	0	0	% 100
99	M76	X	2.086	2.086	0	% 100
100	M76	Z	0	0	0	% 100
101	M77	X	2.086	2.086	0	% 100
102	M77	Z	0	0	0	% 100
103	M78	X	2.086	2.086	0	% 100
104	M78	Z	0	0	0	% 100
105	M79	X	2.086	2.086	0	% 100
106	M79	Z	0	0	0	% 100
107	M86	X	4.81	4.81	0	% 100
108	M86	Z	0	0	0	% 100
109	M89	X	3.006	3.006	0	% 100
110	M89	Z	0	0	0	% 100
111	M90	X	3.006	3.006	0	% 100
112	M90	Z	0	0	0	% 100
113	M99	X	.452	.452	0	% 100
114	M99	Z	0	0	0	% 100
115	M100	X	.452	.452	0	% 100
116	M100	Z	0	0	0	% 100
117	M101	X	.452	.452	0	% 100
118	M101	Z	0	0	0	% 100
119	M102	X	.452	.452	0	% 100
120	M102	Z	0	0	0	% 100
121	M103	X	2.696	2.696	0	% 100
122	M103	Z	0	0	0	% 100
123	M104	X	2.696	2.696	0	% 100
124	M104	Z	0	0	0	% 100
125	M105	X	.384	.384	0	% 100
126	M105	Z	0	0	0	% 100
127	OVP	X	.384	.384	0	% 100
128	OVP	Z	0	0	0	% 100
129	M107	X	1.356	1.356	0	% 100
130	M107	Z	0	0	0	% 100
131	M108	X	1.356	1.356	0	% 100
132	M108	Z	0	0	0	% 100
133	M109	X	1.356	1.356	0	% 100
134	M109	Z	0	0	0	% 100
135	M110	X	1.356	1.356	0	% 100
136	M110	Z	0	0	0	% 100
137	M111	X	2.225	2.225	0	% 100
138	M111	Z	0	0	0	% 100
139	M112	X	2.225	2.225	0	% 100
140	M112	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
141	M113	X	1.28	1.28	0	% 100
142	M113	Z	0	0	0	% 100
143	M114	X	1.28	1.28	0	% 100
144	M114	Z	0	0	0	% 100
145	MP4B	X	4.005	4.005	0	% 100
146	MP4B	Z	0	0	0	% 100
147	MP3B	X	4.005	4.005	0	% 100
148	MP3B	Z	0	0	0	% 100
149	MP2B	X	4.005	4.005	0	% 100
150	MP2B	Z	0	0	0	% 100
151	MP1B	X	4.005	4.005	0	% 100
152	MP1B	Z	0	0	0	% 100
153	M119	X	2.086	2.086	0	% 100
154	M119	Z	0	0	0	% 100
155	M120	X	2.086	2.086	0	% 100
156	M120	Z	0	0	0	% 100
157	M121	X	2.086	2.086	0	% 100
158	M121	Z	0	0	0	% 100
159	M122	X	2.086	2.086	0	% 100
160	M122	Z	0	0	0	% 100
161	M129	X	4.81	4.81	0	% 100
162	M129	Z	0	0	0	% 100
163	M132	X	2.516	2.516	0	% 100
164	M132	Z	0	0	0	% 100
165	M134	X	.048	.048	0	% 100
166	M134	Z	0	0	0	% 100
167	M136	X	2.736	2.736	0	% 100
168	M136	Z	0	0	0	% 100
169	OVP3	X	3.393	3.393	0	% 100
170	OVP3	Z	0	0	0	% 100
171	OVP1	X	3.393	3.393	0	% 100
172	OVP1	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	LV	X	.868	.868	0	% 100
2	LV	Z	.501	.501	0	% 100
3	M2	X	.868	.868	0	% 100
4	M2	Z	.501	.501	0	% 100
5	M13	X	1.174	1.174	0	% 100
6	M13	Z	.678	.678	0	% 100
7	M14	X	1.174	1.174	0	% 100
8	M14	Z	.678	.678	0	% 100
9	M15	X	1.174	1.174	0	% 100
10	M15	Z	.678	.678	0	% 100
11	M16	X	1.174	1.174	0	% 100
12	M16	Z	.678	.678	0	% 100
13	M17	X	2.049	2.049	0	% 100
14	M17	Z	1.183	1.183	0	% 100
15	M18	X	2.049	2.049	0	% 100
16	M18	Z	1.183	1.183	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M19	X	.047	.047	0	%100
18	M19	Z	.027	.027	0	%100
19	M20	X	.047	.047	0	%100
20	M20	Z	.027	.027	0	%100
21	M21	X	.391	.391	0	%100
22	M21	Z	.226	.226	0	%100
23	M22	X	.391	.391	0	%100
24	M22	Z	.226	.226	0	%100
25	M23	X	.391	.391	0	%100
26	M23	Z	.226	.226	0	%100
27	M24	X	.391	.391	0	%100
28	M24	Z	.226	.226	0	%100
29	M25	X	1.81	1.81	0	%100
30	M25	Z	1.045	1.045	0	%100
31	M26	X	1.81	1.81	0	%100
32	M26	Z	1.045	1.045	0	%100
33	M27	X	.992	.992	0	%100
34	M27	Z	.573	.573	0	%100
35	M28	X	.992	.992	0	%100
36	M28	Z	.573	.573	0	%100
37	MP4A	X	3.469	3.469	0	%100
38	MP4A	Z	2.003	2.003	0	%100
39	MP3A	X	3.469	3.469	0	%100
40	MP3A	Z	2.003	2.003	0	%100
41	MP2A	X	3.469	3.469	0	%100
42	MP2A	Z	2.003	2.003	0	%100
43	MP1A	X	3.469	3.469	0	%100
44	MP1A	Z	2.003	2.003	0	%100
45	M44	X	1.807	1.807	0	%100
46	M44	Z	1.043	1.043	0	%100
47	M45	X	1.807	1.807	0	%100
48	M45	Z	1.043	1.043	0	%100
49	M46	X	1.807	1.807	0	%100
50	M46	Z	1.043	1.043	0	%100
51	M47	X	1.807	1.807	0	%100
52	M47	Z	1.043	1.043	0	%100
53	M43	X	4.166	4.166	0	%100
54	M43	Z	2.405	2.405	0	%100
55	M46A	X	.868	.868	0	%100
56	M46A	Z	.501	.501	0	%100
57	M47A	X	.868	.868	0	%100
58	M47A	Z	.501	.501	0	%100
59	M56	X	1.174	1.174	0	%100
60	M56	Z	.678	.678	0	%100
61	M57	X	1.174	1.174	0	%100
62	M57	Z	.678	.678	0	%100
63	M58	X	1.174	1.174	0	%100
64	M58	Z	.678	.678	0	%100
65	M59	X	1.174	1.174	0	%100
66	M59	Z	.678	.678	0	%100
67	M60	X	.047	.047	0	%100
68	M60	Z	.027	.027	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M61	X	.047	.047	0	%100
70	M61	Z	.027	.027	0	%100
71	M62	X	2.049	2.049	0	%100
72	M62	Z	1.183	1.183	0	%100
73	OVP2	X	2.049	2.049	0	%100
74	OVP2	Z	1.183	1.183	0	%100
75	M64	X	.391	.391	0	%100
76	M64	Z	.226	.226	0	%100
77	M65	X	.391	.391	0	%100
78	M65	Z	.226	.226	0	%100
79	M66	X	.391	.391	0	%100
80	M66	Z	.226	.226	0	%100
81	M67	X	.391	.391	0	%100
82	M67	Z	.226	.226	0	%100
83	M68	X	.992	.992	0	%100
84	M68	Z	.573	.573	0	%100
85	M69	X	.992	.992	0	%100
86	M69	Z	.573	.573	0	%100
87	M70	X	1.81	1.81	0	%100
88	M70	Z	1.045	1.045	0	%100
89	M71	X	1.81	1.81	0	%100
90	M71	Z	1.045	1.045	0	%100
91	MP4C	X	3.469	3.469	0	%100
92	MP4C	Z	2.003	2.003	0	%100
93	MP3C	X	3.469	3.469	0	%100
94	MP3C	Z	2.003	2.003	0	%100
95	MP2C	X	3.469	3.469	0	%100
96	MP2C	Z	2.003	2.003	0	%100
97	MP1C	X	3.469	3.469	0	%100
98	MP1C	Z	2.003	2.003	0	%100
99	M76	X	1.807	1.807	0	%100
100	M76	Z	1.043	1.043	0	%100
101	M77	X	1.807	1.807	0	%100
102	M77	Z	1.043	1.043	0	%100
103	M78	X	1.807	1.807	0	%100
104	M78	Z	1.043	1.043	0	%100
105	M79	X	1.807	1.807	0	%100
106	M79	Z	1.043	1.043	0	%100
107	M86	X	4.166	4.166	0	%100
108	M86	Z	2.405	2.405	0	%100
109	M89	X	3.471	3.471	0	%100
110	M89	Z	2.004	2.004	0	%100
111	M90	X	3.471	3.471	0	%100
112	M90	Z	2.004	2.004	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
121	M103	X	1.476	1.476	0	%100
122	M103	Z	.852	.852	0	%100
123	M104	X	1.476	1.476	0	%100
124	M104	Z	.852	.852	0	%100
125	M105	X	1.476	1.476	0	%100
126	M105	Z	.852	.852	0	%100
127	OVP	X	1.476	1.476	0	%100
128	OVP	Z	.852	.852	0	%100
129	M107	X	1.565	1.565	0	%100
130	M107	Z	.904	.904	0	%100
131	M108	X	1.565	1.565	0	%100
132	M108	Z	.904	.904	0	%100
133	M109	X	1.565	1.565	0	%100
134	M109	Z	.904	.904	0	%100
135	M110	X	1.565	1.565	0	%100
136	M110	Z	.904	.904	0	%100
137	M111	X	1.576	1.576	0	%100
138	M111	Z	.91	.91	0	%100
139	M112	X	1.576	1.576	0	%100
140	M112	Z	.91	.91	0	%100
141	M113	X	1.576	1.576	0	%100
142	M113	Z	.91	.91	0	%100
143	M114	X	1.576	1.576	0	%100
144	M114	Z	.91	.91	0	%100
145	MP4B	X	3.469	3.469	0	%100
146	MP4B	Z	2.003	2.003	0	%100
147	MP3B	X	3.469	3.469	0	%100
148	MP3B	Z	2.003	2.003	0	%100
149	MP2B	X	3.469	3.469	0	%100
150	MP2B	Z	2.003	2.003	0	%100
151	MP1B	X	3.469	3.469	0	%100
152	MP1B	Z	2.003	2.003	0	%100
153	M119	X	1.807	1.807	0	%100
154	M119	Z	1.043	1.043	0	%100
155	M120	X	1.807	1.807	0	%100
156	M120	Z	1.043	1.043	0	%100
157	M121	X	1.807	1.807	0	%100
158	M121	Z	1.043	1.043	0	%100
159	M122	X	1.807	1.807	0	%100
160	M122	Z	1.043	1.043	0	%100
161	M129	X	4.166	4.166	0	%100
162	M129	Z	2.405	2.405	0	%100
163	M132	X	3.019	3.019	0	%100
164	M132	Z	1.743	1.743	0	%100
165	M134	X	.69	.69	0	%100
166	M134	Z	.399	.399	0	%100
167	M136	X	.881	.881	0	%100
168	M136	Z	.509	.509	0	%100
169	OVP3	X	2.939	2.939	0	%100
170	OVP3	Z	1.697	1.697	0	%100
171	OVP1	X	2.939	2.939	0	%100
172	OVP1	Z	1.697	1.697	0	%100



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**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	LV	X	1.503	1.503	0	% 100
2	LV	Z	2.603	2.603	0	% 100
3	M2	X	1.503	1.503	0	% 100
4	M2	Z	2.603	2.603	0	% 100
5	M13	X	.226	.226	0	% 100
6	M13	Z	.391	.391	0	% 100
7	M14	X	.226	.226	0	% 100
8	M14	Z	.391	.391	0	% 100
9	M15	X	.226	.226	0	% 100
10	M15	Z	.391	.391	0	% 100
11	M16	X	.226	.226	0	% 100
12	M16	Z	.391	.391	0	% 100
13	M17	X	1.348	1.348	0	% 100
14	M17	Z	2.335	2.335	0	% 100
15	M18	X	1.348	1.348	0	% 100
16	M18	Z	2.335	2.335	0	% 100
17	M19	X	.192	.192	0	% 100
18	M19	Z	.332	.332	0	% 100
19	M20	X	.192	.192	0	% 100
20	M20	Z	.332	.332	0	% 100
21	M21	X	.678	.678	0	% 100
22	M21	Z	1.174	1.174	0	% 100
23	M22	X	.678	.678	0	% 100
24	M22	Z	1.174	1.174	0	% 100
25	M23	X	.678	.678	0	% 100
26	M23	Z	1.174	1.174	0	% 100
27	M24	X	.678	.678	0	% 100
28	M24	Z	1.174	1.174	0	% 100
29	M25	X	1.112	1.112	0	% 100
30	M25	Z	1.927	1.927	0	% 100
31	M26	X	1.112	1.112	0	% 100
32	M26	Z	1.927	1.927	0	% 100
33	M27	X	.64	.64	0	% 100
34	M27	Z	1.109	1.109	0	% 100
35	M28	X	.64	.64	0	% 100
36	M28	Z	1.109	1.109	0	% 100
37	MP4A	X	2.003	2.003	0	% 100
38	MP4A	Z	3.469	3.469	0	% 100
39	MP3A	X	2.003	2.003	0	% 100
40	MP3A	Z	3.469	3.469	0	% 100
41	MP2A	X	2.003	2.003	0	% 100
42	MP2A	Z	3.469	3.469	0	% 100
43	MP1A	X	2.003	2.003	0	% 100
44	MP1A	Z	3.469	3.469	0	% 100
45	M44	X	1.043	1.043	0	% 100
46	M44	Z	1.807	1.807	0	% 100
47	M45	X	1.043	1.043	0	% 100
48	M45	Z	1.807	1.807	0	% 100
49	M46	X	1.043	1.043	0	% 100
50	M46	Z	1.807	1.807	0	% 100
51	M47	X	1.043	1.043	0	% 100
52	M47	Z	1.807	1.807	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	M43	X	2.405	2.405	0	% 100
54	M43	Z	4.166	4.166	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	0	0	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	.904	.904	0	% 100
60	M56	Z	1.565	1.565	0	% 100
61	M57	X	.904	.904	0	% 100
62	M57	Z	1.565	1.565	0	% 100
63	M58	X	.904	.904	0	% 100
64	M58	Z	1.565	1.565	0	% 100
65	M59	X	.904	.904	0	% 100
66	M59	Z	1.565	1.565	0	% 100
67	M60	X	.523	.523	0	% 100
68	M60	Z	.905	.905	0	% 100
69	M61	X	.523	.523	0	% 100
70	M61	Z	.905	.905	0	% 100
71	M62	X	.523	.523	0	% 100
72	M62	Z	.905	.905	0	% 100
73	OVP2	X	.523	.523	0	% 100
74	OVP2	Z	.905	.905	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	.775	.775	0	% 100
84	M68	Z	1.343	1.343	0	% 100
85	M69	X	.775	.775	0	% 100
86	M69	Z	1.343	1.343	0	% 100
87	M70	X	.775	.775	0	% 100
88	M70	Z	1.343	1.343	0	% 100
89	M71	X	.775	.775	0	% 100
90	M71	Z	1.343	1.343	0	% 100
91	MP4C	X	2.003	2.003	0	% 100
92	MP4C	Z	3.469	3.469	0	% 100
93	MP3C	X	2.003	2.003	0	% 100
94	MP3C	Z	3.469	3.469	0	% 100
95	MP2C	X	2.003	2.003	0	% 100
96	MP2C	Z	3.469	3.469	0	% 100
97	MP1C	X	2.003	2.003	0	% 100
98	MP1C	Z	3.469	3.469	0	% 100
99	M76	X	1.043	1.043	0	% 100
100	M76	Z	1.807	1.807	0	% 100
101	M77	X	1.043	1.043	0	% 100
102	M77	Z	1.807	1.807	0	% 100
103	M78	X	1.043	1.043	0	% 100
104	M78	Z	1.807	1.807	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
105	M79	X	1.043	1.043	0	%100
106	M79	Z	1.807	1.807	0	%100
107	M86	X	2.405	2.405	0	%100
108	M86	Z	4.166	4.166	0	%100
109	M89	X	1.503	1.503	0	%100
110	M89	Z	2.603	2.603	0	%100
111	M90	X	1.503	1.503	0	%100
112	M90	Z	2.603	2.603	0	%100
113	M99	X	.226	.226	0	%100
114	M99	Z	.391	.391	0	%100
115	M100	X	.226	.226	0	%100
116	M100	Z	.391	.391	0	%100
117	M101	X	.226	.226	0	%100
118	M101	Z	.391	.391	0	%100
119	M102	X	.226	.226	0	%100
120	M102	Z	.391	.391	0	%100
121	M103	X	.192	.192	0	%100
122	M103	Z	.332	.332	0	%100
123	M104	X	.192	.192	0	%100
124	M104	Z	.332	.332	0	%100
125	M105	X	1.348	1.348	0	%100
126	M105	Z	2.335	2.335	0	%100
127	OVP	X	1.348	1.348	0	%100
128	OVP	Z	2.335	2.335	0	%100
129	M107	X	.678	.678	0	%100
130	M107	Z	1.174	1.174	0	%100
131	M108	X	.678	.678	0	%100
132	M108	Z	1.174	1.174	0	%100
133	M109	X	.678	.678	0	%100
134	M109	Z	1.174	1.174	0	%100
135	M110	X	.678	.678	0	%100
136	M110	Z	1.174	1.174	0	%100
137	M111	X	.64	.64	0	%100
138	M111	Z	1.109	1.109	0	%100
139	M112	X	.64	.64	0	%100
140	M112	Z	1.109	1.109	0	%100
141	M113	X	1.112	1.112	0	%100
142	M113	Z	1.927	1.927	0	%100
143	M114	X	1.112	1.112	0	%100
144	M114	Z	1.927	1.927	0	%100
145	MP4B	X	2.003	2.003	0	%100
146	MP4B	Z	3.469	3.469	0	%100
147	MP3B	X	2.003	2.003	0	%100
148	MP3B	Z	3.469	3.469	0	%100
149	MP2B	X	2.003	2.003	0	%100
150	MP2B	Z	3.469	3.469	0	%100
151	MP1B	X	2.003	2.003	0	%100
152	MP1B	Z	3.469	3.469	0	%100
153	M119	X	1.043	1.043	0	%100
154	M119	Z	1.807	1.807	0	%100
155	M120	X	1.043	1.043	0	%100
156	M120	Z	1.807	1.807	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
157	M121	X	1.043	1.043	0	% 100
158	M121	Z	1.807	1.807	0	% 100
159	M122	X	1.043	1.043	0	% 100
160	M122	Z	1.807	1.807	0	% 100
161	M129	X	2.405	2.405	0	% 100
162	M129	Z	4.166	4.166	0	% 100
163	M132	X	1.368	1.368	0	% 100
164	M132	Z	2.369	2.369	0	% 100
165	M134	X	1.258	1.258	0	% 100
166	M134	Z	2.179	2.179	0	% 100
167	M136	X	.024	.024	0	% 100
168	M136	Z	.041	.041	0	% 100
169	OVP3	X	1.697	1.697	0	% 100
170	OVP3	Z	2.939	2.939	0	% 100
171	OVP1	X	1.697	1.697	0	% 100
172	OVP1	Z	2.939	2.939	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	LV	X	0	0	0	% 100
2	LV	Z	4.008	4.008	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	4.008	4.008	0	% 100
5	M13	X	0	0	0	% 100
6	M13	Z	0	0	0	% 100
7	M14	X	0	0	0	% 100
8	M14	Z	0	0	0	% 100
9	M15	X	0	0	0	% 100
10	M15	Z	0	0	0	% 100
11	M16	X	0	0	0	% 100
12	M16	Z	0	0	0	% 100
13	M17	X	0	0	0	% 100
14	M17	Z	1.705	1.705	0	% 100
15	M18	X	0	0	0	% 100
16	M18	Z	1.705	1.705	0	% 100
17	M19	X	0	0	0	% 100
18	M19	Z	1.705	1.705	0	% 100
19	M20	X	0	0	0	% 100
20	M20	Z	1.705	1.705	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	1.807	1.807	0	% 100
23	M22	X	0	0	0	% 100
24	M22	Z	1.807	1.807	0	% 100
25	M23	X	0	0	0	% 100
26	M23	Z	1.807	1.807	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	1.807	1.807	0	% 100
29	M25	X	0	0	0	% 100
30	M25	Z	1.82	1.82	0	% 100
31	M26	X	0	0	0	% 100
32	M26	Z	1.82	1.82	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
33	M27	X	0	0	0	% 100
34	M27	Z	1.82	1.82	0	% 100
35	M28	X	0	0	0	% 100
36	M28	Z	1.82	1.82	0	% 100
37	MP4A	X	0	0	0	% 100
38	MP4A	Z	4.005	4.005	0	% 100
39	MP3A	X	0	0	0	% 100
40	MP3A	Z	4.005	4.005	0	% 100
41	MP2A	X	0	0	0	% 100
42	MP2A	Z	4.005	4.005	0	% 100
43	MP1A	X	0	0	0	% 100
44	MP1A	Z	4.005	4.005	0	% 100
45	M44	X	0	0	0	% 100
46	M44	Z	2.086	2.086	0	% 100
47	M45	X	0	0	0	% 100
48	M45	Z	2.086	2.086	0	% 100
49	M46	X	0	0	0	% 100
50	M46	Z	2.086	2.086	0	% 100
51	M47	X	0	0	0	% 100
52	M47	Z	2.086	2.086	0	% 100
53	M43	X	0	0	0	% 100
54	M43	Z	4.81	4.81	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	1.002	1.002	0	% 100
57	M47A	X	0	0	0	% 100
58	M47A	Z	1.002	1.002	0	% 100
59	M56	X	0	0	0	% 100
60	M56	Z	1.356	1.356	0	% 100
61	M57	X	0	0	0	% 100
62	M57	Z	1.356	1.356	0	% 100
63	M58	X	0	0	0	% 100
64	M58	Z	1.356	1.356	0	% 100
65	M59	X	0	0	0	% 100
66	M59	Z	1.356	1.356	0	% 100
67	M60	X	0	0	0	% 100
68	M60	Z	2.366	2.366	0	% 100
69	M61	X	0	0	0	% 100
70	M61	Z	2.366	2.366	0	% 100
71	M62	X	0	0	0	% 100
72	M62	Z	.054	.054	0	% 100
73	OVP2	X	0	0	0	% 100
74	OVP2	Z	.054	.054	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	.452	.452	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	.452	.452	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	.452	.452	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	.452	.452	0	% 100
83	M68	X	0	0	0	% 100
84	M68	Z	2.09	2.09	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
85	M69	X	0	0	0	%100
86	M69	Z	2.09	2.09	0	%100
87	M70	X	0	0	0	%100
88	M70	Z	1.145	1.145	0	%100
89	M71	X	0	0	0	%100
90	M71	Z	1.145	1.145	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	4.005	4.005	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	4.005	4.005	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	4.005	4.005	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	4.005	4.005	0	%100
99	M76	X	0	0	0	%100
100	M76	Z	2.086	2.086	0	%100
101	M77	X	0	0	0	%100
102	M77	Z	2.086	2.086	0	%100
103	M78	X	0	0	0	%100
104	M78	Z	2.086	2.086	0	%100
105	M79	X	0	0	0	%100
106	M79	Z	2.086	2.086	0	%100
107	M86	X	0	0	0	%100
108	M86	Z	4.81	4.81	0	%100
109	M89	X	0	0	0	%100
110	M89	Z	1.002	1.002	0	%100
111	M90	X	0	0	0	%100
112	M90	Z	1.002	1.002	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	1.356	1.356	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	1.356	1.356	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	1.356	1.356	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	1.356	1.356	0	%100
121	M103	X	0	0	0	%100
122	M103	Z	.054	.054	0	%100
123	M104	X	0	0	0	%100
124	M104	Z	.054	.054	0	%100
125	M105	X	0	0	0	%100
126	M105	Z	2.366	2.366	0	%100
127	OVP	X	0	0	0	%100
128	OVP	Z	2.366	2.366	0	%100
129	M107	X	0	0	0	%100
130	M107	Z	.452	.452	0	%100
131	M108	X	0	0	0	%100
132	M108	Z	.452	.452	0	%100
133	M109	X	0	0	0	%100
134	M109	Z	.452	.452	0	%100
135	M110	X	0	0	0	%100
136	M110	Z	.452	.452	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
137	M111	X	0	0	0	%100
138	M111	Z	1.145	1.145	0	%100
139	M112	X	0	0	0	%100
140	M112	Z	1.145	1.145	0	%100
141	M113	X	0	0	0	%100
142	M113	Z	2.09	2.09	0	%100
143	M114	X	0	0	0	%100
144	M114	Z	2.09	2.09	0	%100
145	MP4B	X	0	0	0	%100
146	MP4B	Z	4.005	4.005	0	%100
147	MP3B	X	0	0	0	%100
148	MP3B	Z	4.005	4.005	0	%100
149	MP2B	X	0	0	0	%100
150	MP2B	Z	4.005	4.005	0	%100
151	MP1B	X	0	0	0	%100
152	MP1B	Z	4.005	4.005	0	%100
153	M119	X	0	0	0	%100
154	M119	Z	2.086	2.086	0	%100
155	M120	X	0	0	0	%100
156	M120	Z	2.086	2.086	0	%100
157	M121	X	0	0	0	%100
158	M121	Z	2.086	2.086	0	%100
159	M122	X	0	0	0	%100
160	M122	Z	2.086	2.086	0	%100
161	M129	X	0	0	0	%100
162	M129	Z	4.81	4.81	0	%100
163	M132	X	0	0	0	%100
164	M132	Z	1.017	1.017	0	%100
165	M134	X	0	0	0	%100
166	M134	Z	3.486	3.486	0	%100
167	M136	X	0	0	0	%100
168	M136	Z	.797	.797	0	%100
169	OVP3	X	0	0	0	%100
170	OVP3	Z	3.393	3.393	0	%100
171	OVP1	X	0	0	0	%100
172	OVP1	Z	3.393	3.393	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	LV	X	-1.503	-1.503	0	%100
2	LV	Z	2.603	2.603	0	%100
3	M2	X	-1.503	-1.503	0	%100
4	M2	Z	2.603	2.603	0	%100
5	M13	X	-.226	-.226	0	%100
6	M13	Z	.391	.391	0	%100
7	M14	X	-.226	-.226	0	%100
8	M14	Z	.391	.391	0	%100
9	M15	X	-.226	-.226	0	%100
10	M15	Z	.391	.391	0	%100
11	M16	X	-.226	-.226	0	%100
12	M16	Z	.391	.391	0	%100



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**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,%]
13	M17	X	-.192	-.192	0	%100
14	M17	Z	.332	.332	0	%100
15	M18	X	-.192	-.192	0	%100
16	M18	Z	.332	.332	0	%100
17	M19	X	-1.348	-1.348	0	%100
18	M19	Z	2.335	2.335	0	%100
19	M20	X	-1.348	-1.348	0	%100
20	M20	Z	2.335	2.335	0	%100
21	M21	X	-.678	-.678	0	%100
22	M21	Z	1.174	1.174	0	%100
23	M22	X	-.678	-.678	0	%100
24	M22	Z	1.174	1.174	0	%100
25	M23	X	-.678	-.678	0	%100
26	M23	Z	1.174	1.174	0	%100
27	M24	X	-.678	-.678	0	%100
28	M24	Z	1.174	1.174	0	%100
29	M25	X	-.64	-.64	0	%100
30	M25	Z	1.109	1.109	0	%100
31	M26	X	-.64	-.64	0	%100
32	M26	Z	1.109	1.109	0	%100
33	M27	X	-1.112	-1.112	0	%100
34	M27	Z	1.927	1.927	0	%100
35	M28	X	-1.112	-1.112	0	%100
36	M28	Z	1.927	1.927	0	%100
37	MP4A	X	-2.003	-2.003	0	%100
38	MP4A	Z	3.469	3.469	0	%100
39	MP3A	X	-2.003	-2.003	0	%100
40	MP3A	Z	3.469	3.469	0	%100
41	MP2A	X	-2.003	-2.003	0	%100
42	MP2A	Z	3.469	3.469	0	%100
43	MP1A	X	-2.003	-2.003	0	%100
44	MP1A	Z	3.469	3.469	0	%100
45	M44	X	-1.043	-1.043	0	%100
46	M44	Z	1.807	1.807	0	%100
47	M45	X	-1.043	-1.043	0	%100
48	M45	Z	1.807	1.807	0	%100
49	M46	X	-1.043	-1.043	0	%100
50	M46	Z	1.807	1.807	0	%100
51	M47	X	-1.043	-1.043	0	%100
52	M47	Z	1.807	1.807	0	%100
53	M43	X	-2.405	-2.405	0	%100
54	M43	Z	4.166	4.166	0	%100
55	M46A	X	-1.503	-1.503	0	%100
56	M46A	Z	2.603	2.603	0	%100
57	M47A	X	-1.503	-1.503	0	%100
58	M47A	Z	2.603	2.603	0	%100
59	M56	X	-.226	-.226	0	%100
60	M56	Z	.391	.391	0	%100
61	M57	X	-.226	-.226	0	%100
62	M57	Z	.391	.391	0	%100
63	M58	X	-.226	-.226	0	%100
64	M58	Z	.391	.391	0	%100



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**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, %]
65	M59	X	-.226	-.226	0	%100
66	M59	Z	.391	.391	0	%100
67	M60	X	-1.348	-1.348	0	%100
68	M60	Z	2.335	2.335	0	%100
69	M61	X	-1.348	-1.348	0	%100
70	M61	Z	2.335	2.335	0	%100
71	M62	X	-.192	-.192	0	%100
72	M62	Z	.332	.332	0	%100
73	OVP2	X	-.192	-.192	0	%100
74	OVP2	Z	.332	.332	0	%100
75	M64	X	-.678	-.678	0	%100
76	M64	Z	1.174	1.174	0	%100
77	M65	X	-.678	-.678	0	%100
78	M65	Z	1.174	1.174	0	%100
79	M66	X	-.678	-.678	0	%100
80	M66	Z	1.174	1.174	0	%100
81	M67	X	-.678	-.678	0	%100
82	M67	Z	1.174	1.174	0	%100
83	M68	X	-1.112	-1.112	0	%100
84	M68	Z	1.927	1.927	0	%100
85	M69	X	-1.112	-1.112	0	%100
86	M69	Z	1.927	1.927	0	%100
87	M70	X	-.64	-.64	0	%100
88	M70	Z	1.109	1.109	0	%100
89	M71	X	-.64	-.64	0	%100
90	M71	Z	1.109	1.109	0	%100
91	MP4C	X	-2.003	-2.003	0	%100
92	MP4C	Z	3.469	3.469	0	%100
93	MP3C	X	-2.003	-2.003	0	%100
94	MP3C	Z	3.469	3.469	0	%100
95	MP2C	X	-2.003	-2.003	0	%100
96	MP2C	Z	3.469	3.469	0	%100
97	MP1C	X	-2.003	-2.003	0	%100
98	MP1C	Z	3.469	3.469	0	%100
99	M76	X	-1.043	-1.043	0	%100
100	M76	Z	1.807	1.807	0	%100
101	M77	X	-1.043	-1.043	0	%100
102	M77	Z	1.807	1.807	0	%100
103	M78	X	-1.043	-1.043	0	%100
104	M78	Z	1.807	1.807	0	%100
105	M79	X	-1.043	-1.043	0	%100
106	M79	Z	1.807	1.807	0	%100
107	M86	X	-2.405	-2.405	0	%100
108	M86	Z	4.166	4.166	0	%100
109	M89	X	0	0	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	0	0	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	-.904	-.904	0	%100
114	M99	Z	1.565	1.565	0	%100
115	M100	X	-.904	-.904	0	%100
116	M100	Z	1.565	1.565	0	%100



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**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, %]
117	M101	X	-.904	-.904	0	% 100
118	M101	Z	1.565	1.565	0	% 100
119	M102	X	-.904	-.904	0	% 100
120	M102	Z	1.565	1.565	0	% 100
121	M103	X	-.523	-.523	0	% 100
122	M103	Z	.905	.905	0	% 100
123	M104	X	-.523	-.523	0	% 100
124	M104	Z	.905	.905	0	% 100
125	M105	X	-.523	-.523	0	% 100
126	M105	Z	.905	.905	0	% 100
127	OVP	X	-.523	-.523	0	% 100
128	OVP	Z	.905	.905	0	% 100
129	M107	X	0	0	0	% 100
130	M107	Z	0	0	0	% 100
131	M108	X	0	0	0	% 100
132	M108	Z	0	0	0	% 100
133	M109	X	0	0	0	% 100
134	M109	Z	0	0	0	% 100
135	M110	X	0	0	0	% 100
136	M110	Z	0	0	0	% 100
137	M111	X	-.775	-.775	0	% 100
138	M111	Z	1.343	1.343	0	% 100
139	M112	X	-.775	-.775	0	% 100
140	M112	Z	1.343	1.343	0	% 100
141	M113	X	-.775	-.775	0	% 100
142	M113	Z	1.343	1.343	0	% 100
143	M114	X	-.775	-.775	0	% 100
144	M114	Z	1.343	1.343	0	% 100
145	MP4B	X	-2.003	-2.003	0	% 100
146	MP4B	Z	3.469	3.469	0	% 100
147	MP3B	X	-2.003	-2.003	0	% 100
148	MP3B	Z	3.469	3.469	0	% 100
149	MP2B	X	-2.003	-2.003	0	% 100
150	MP2B	Z	3.469	3.469	0	% 100
151	MP1B	X	-2.003	-2.003	0	% 100
152	MP1B	Z	3.469	3.469	0	% 100
153	M119	X	-1.043	-1.043	0	% 100
154	M119	Z	1.807	1.807	0	% 100
155	M120	X	-1.043	-1.043	0	% 100
156	M120	Z	1.807	1.807	0	% 100
157	M121	X	-1.043	-1.043	0	% 100
158	M121	Z	1.807	1.807	0	% 100
159	M122	X	-1.043	-1.043	0	% 100
160	M122	Z	1.807	1.807	0	% 100
161	M129	X	-2.405	-2.405	0	% 100
162	M129	Z	4.166	4.166	0	% 100
163	M132	X	-.024	-.024	0	% 100
164	M132	Z	.041	.041	0	% 100
165	M134	X	-1.368	-1.368	0	% 100
166	M134	Z	2.369	2.369	0	% 100
167	M136	X	-1.258	-1.258	0	% 100
168	M136	Z	2.179	2.179	0	% 100



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**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, %]
169	OVP3	X	-1.697	-1.697	0	%100
170	OVP3	Z	2.939	2.939	0	%100
171	OVP1	X	-1.697	-1.697	0	%100
172	OVP1	Z	2.939	2.939	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	LV	X	-.868	-.868	0	%100
2	LV	Z	.501	.501	0	%100
3	M2	X	-.868	-.868	0	%100
4	M2	Z	.501	.501	0	%100
5	M13	X	-1.174	-1.174	0	%100
6	M13	Z	.678	.678	0	%100
7	M14	X	-1.174	-1.174	0	%100
8	M14	Z	.678	.678	0	%100
9	M15	X	-1.174	-1.174	0	%100
10	M15	Z	.678	.678	0	%100
11	M16	X	-1.174	-1.174	0	%100
12	M16	Z	.678	.678	0	%100
13	M17	X	-.047	-.047	0	%100
14	M17	Z	.027	.027	0	%100
15	M18	X	-.047	-.047	0	%100
16	M18	Z	.027	.027	0	%100
17	M19	X	-2.049	-2.049	0	%100
18	M19	Z	1.183	1.183	0	%100
19	M20	X	-2.049	-2.049	0	%100
20	M20	Z	1.183	1.183	0	%100
21	M21	X	-.391	-.391	0	%100
22	M21	Z	.226	.226	0	%100
23	M22	X	-.391	-.391	0	%100
24	M22	Z	.226	.226	0	%100
25	M23	X	-.391	-.391	0	%100
26	M23	Z	.226	.226	0	%100
27	M24	X	-.391	-.391	0	%100
28	M24	Z	.226	.226	0	%100
29	M25	X	-.992	-.992	0	%100
30	M25	Z	.573	.573	0	%100
31	M26	X	-.992	-.992	0	%100
32	M26	Z	.573	.573	0	%100
33	M27	X	-1.81	-1.81	0	%100
34	M27	Z	1.045	1.045	0	%100
35	M28	X	-1.81	-1.81	0	%100
36	M28	Z	1.045	1.045	0	%100
37	MP4A	X	-3.469	-3.469	0	%100
38	MP4A	Z	2.003	2.003	0	%100
39	MP3A	X	-3.469	-3.469	0	%100
40	MP3A	Z	2.003	2.003	0	%100
41	MP2A	X	-3.469	-3.469	0	%100
42	MP2A	Z	2.003	2.003	0	%100
43	MP1A	X	-3.469	-3.469	0	%100
44	MP1A	Z	2.003	2.003	0	%100



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**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, %]
45	M44	X	-1.807	-1.807	0	% 100
46	M44	Z	1.043	1.043	0	% 100
47	M45	X	-1.807	-1.807	0	% 100
48	M45	Z	1.043	1.043	0	% 100
49	M46	X	-1.807	-1.807	0	% 100
50	M46	Z	1.043	1.043	0	% 100
51	M47	X	-1.807	-1.807	0	% 100
52	M47	Z	1.043	1.043	0	% 100
53	M43	X	-4.166	-4.166	0	% 100
54	M43	Z	2.405	2.405	0	% 100
55	M46A	X	-3.471	-3.471	0	% 100
56	M46A	Z	2.004	2.004	0	% 100
57	M47A	X	-3.471	-3.471	0	% 100
58	M47A	Z	2.004	2.004	0	% 100
59	M56	X	0	0	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	0	0	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	0	0	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	0	0	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	-1.476	-1.476	0	% 100
68	M60	Z	.852	.852	0	% 100
69	M61	X	-1.476	-1.476	0	% 100
70	M61	Z	.852	.852	0	% 100
71	M62	X	-1.476	-1.476	0	% 100
72	M62	Z	.852	.852	0	% 100
73	OVP2	X	-1.476	-1.476	0	% 100
74	OVP2	Z	.852	.852	0	% 100
75	M64	X	-1.565	-1.565	0	% 100
76	M64	Z	.904	.904	0	% 100
77	M65	X	-1.565	-1.565	0	% 100
78	M65	Z	.904	.904	0	% 100
79	M66	X	-1.565	-1.565	0	% 100
80	M66	Z	.904	.904	0	% 100
81	M67	X	-1.565	-1.565	0	% 100
82	M67	Z	.904	.904	0	% 100
83	M68	X	-1.576	-1.576	0	% 100
84	M68	Z	.91	.91	0	% 100
85	M69	X	-1.576	-1.576	0	% 100
86	M69	Z	.91	.91	0	% 100
87	M70	X	-1.576	-1.576	0	% 100
88	M70	Z	.91	.91	0	% 100
89	M71	X	-1.576	-1.576	0	% 100
90	M71	Z	.91	.91	0	% 100
91	MP4C	X	-3.469	-3.469	0	% 100
92	MP4C	Z	2.003	2.003	0	% 100
93	MP3C	X	-3.469	-3.469	0	% 100
94	MP3C	Z	2.003	2.003	0	% 100
95	MP2C	X	-3.469	-3.469	0	% 100
96	MP2C	Z	2.003	2.003	0	% 100



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**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,%]
97	MP1C	X	-3.469	-3.469	0	%100
98	MP1C	Z	2.003	2.003	0	%100
99	M76	X	-1.807	-1.807	0	%100
100	M76	Z	1.043	1.043	0	%100
101	M77	X	-1.807	-1.807	0	%100
102	M77	Z	1.043	1.043	0	%100
103	M78	X	-1.807	-1.807	0	%100
104	M78	Z	1.043	1.043	0	%100
105	M79	X	-1.807	-1.807	0	%100
106	M79	Z	1.043	1.043	0	%100
107	M86	X	-4.166	-4.166	0	%100
108	M86	Z	2.405	2.405	0	%100
109	M89	X	-.868	-.868	0	%100
110	M89	Z	.501	.501	0	%100
111	M90	X	-.868	-.868	0	%100
112	M90	Z	.501	.501	0	%100
113	M99	X	-1.174	-1.174	0	%100
114	M99	Z	.678	.678	0	%100
115	M100	X	-1.174	-1.174	0	%100
116	M100	Z	.678	.678	0	%100
117	M101	X	-1.174	-1.174	0	%100
118	M101	Z	.678	.678	0	%100
119	M102	X	-1.174	-1.174	0	%100
120	M102	Z	.678	.678	0	%100
121	M103	X	-2.049	-2.049	0	%100
122	M103	Z	1.183	1.183	0	%100
123	M104	X	-2.049	-2.049	0	%100
124	M104	Z	1.183	1.183	0	%100
125	M105	X	-.047	-.047	0	%100
126	M105	Z	.027	.027	0	%100
127	OVP	X	-.047	-.047	0	%100
128	OVP	Z	.027	.027	0	%100
129	M107	X	-.391	-.391	0	%100
130	M107	Z	.226	.226	0	%100
131	M108	X	-.391	-.391	0	%100
132	M108	Z	.226	.226	0	%100
133	M109	X	-.391	-.391	0	%100
134	M109	Z	.226	.226	0	%100
135	M110	X	-.391	-.391	0	%100
136	M110	Z	.226	.226	0	%100
137	M111	X	-1.81	-1.81	0	%100
138	M111	Z	1.045	1.045	0	%100
139	M112	X	-1.81	-1.81	0	%100
140	M112	Z	1.045	1.045	0	%100
141	M113	X	-.992	-.992	0	%100
142	M113	Z	.573	.573	0	%100
143	M114	X	-.992	-.992	0	%100
144	M114	Z	.573	.573	0	%100
145	MP4B	X	-3.469	-3.469	0	%100
146	MP4B	Z	2.003	2.003	0	%100
147	MP3B	X	-3.469	-3.469	0	%100
148	MP3B	Z	2.003	2.003	0	%100



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**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, %]
149	MP2B	X	-3.469	-3.469	0	% 100
150	MP2B	Z	2.003	2.003	0	% 100
151	MP1B	X	-3.469	-3.469	0	% 100
152	MP1B	Z	2.003	2.003	0	% 100
153	M119	X	-1.807	-1.807	0	% 100
154	M119	Z	1.043	1.043	0	% 100
155	M120	X	-1.807	-1.807	0	% 100
156	M120	Z	1.043	1.043	0	% 100
157	M121	X	-1.807	-1.807	0	% 100
158	M121	Z	1.043	1.043	0	% 100
159	M122	X	-1.807	-1.807	0	% 100
160	M122	Z	1.043	1.043	0	% 100
161	M129	X	-4.166	-4.166	0	% 100
162	M129	Z	2.405	2.405	0	% 100
163	M132	X	-.69	-.69	0	% 100
164	M132	Z	.399	.399	0	% 100
165	M134	X	-.881	-.881	0	% 100
166	M134	Z	.509	.509	0	% 100
167	M136	X	-3.019	-3.019	0	% 100
168	M136	Z	1.743	1.743	0	% 100
169	OVP3	X	-2.939	-2.939	0	% 100
170	OVP3	Z	1.697	1.697	0	% 100
171	OVP1	X	-2.939	-2.939	0	% 100
172	OVP1	Z	1.697	1.697	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	LV	X	0	0	0	% 100
2	LV	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M13	X	-1.807	-1.807	0	% 100
6	M13	Z	0	0	0	% 100
7	M14	X	-1.807	-1.807	0	% 100
8	M14	Z	0	0	0	% 100
9	M15	X	-1.807	-1.807	0	% 100
10	M15	Z	0	0	0	% 100
11	M16	X	-1.807	-1.807	0	% 100
12	M16	Z	0	0	0	% 100
13	M17	X	-1.045	-1.045	0	% 100
14	M17	Z	0	0	0	% 100
15	M18	X	-1.045	-1.045	0	% 100
16	M18	Z	0	0	0	% 100
17	M19	X	-1.045	-1.045	0	% 100
18	M19	Z	0	0	0	% 100
19	M20	X	-1.045	-1.045	0	% 100
20	M20	Z	0	0	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	0	0	0	% 100
23	M22	X	0	0	0	% 100
24	M22	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, %]
25	M23	X	0	0	0	% 100
26	M23	Z	0	0	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	0	0	0	% 100
29	M25	X	-1.55	-1.55	0	% 100
30	M25	Z	0	0	0	% 100
31	M26	X	-1.55	-1.55	0	% 100
32	M26	Z	0	0	0	% 100
33	M27	X	-1.55	-1.55	0	% 100
34	M27	Z	0	0	0	% 100
35	M28	X	-1.55	-1.55	0	% 100
36	M28	Z	0	0	0	% 100
37	MP4A	X	-4.005	-4.005	0	% 100
38	MP4A	Z	0	0	0	% 100
39	MP3A	X	-4.005	-4.005	0	% 100
40	MP3A	Z	0	0	0	% 100
41	MP2A	X	-4.005	-4.005	0	% 100
42	MP2A	Z	0	0	0	% 100
43	MP1A	X	-4.005	-4.005	0	% 100
44	MP1A	Z	0	0	0	% 100
45	M44	X	-2.086	-2.086	0	% 100
46	M44	Z	0	0	0	% 100
47	M45	X	-2.086	-2.086	0	% 100
48	M45	Z	0	0	0	% 100
49	M46	X	-2.086	-2.086	0	% 100
50	M46	Z	0	0	0	% 100
51	M47	X	-2.086	-2.086	0	% 100
52	M47	Z	0	0	0	% 100
53	M43	X	-4.81	-4.81	0	% 100
54	M43	Z	0	0	0	% 100
55	M46A	X	-3.006	-3.006	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	-3.006	-3.006	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	-.452	-.452	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	-.452	-.452	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	-.452	-.452	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	-.452	-.452	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	-.384	-.384	0	% 100
68	M60	Z	0	0	0	% 100
69	M61	X	-.384	-.384	0	% 100
70	M61	Z	0	0	0	% 100
71	M62	X	-2.696	-2.696	0	% 100
72	M62	Z	0	0	0	% 100
73	OVP2	X	-2.696	-2.696	0	% 100
74	OVP2	Z	0	0	0	% 100
75	M64	X	-1.356	-1.356	0	% 100
76	M64	Z	0	0	0	% 100



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**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,%]
77	M65	X	-1.356	-1.356	0	%100
78	M65	Z	0	0	0	%100
79	M66	X	-1.356	-1.356	0	%100
80	M66	Z	0	0	0	%100
81	M67	X	-1.356	-1.356	0	%100
82	M67	Z	0	0	0	%100
83	M68	X	-1.28	-1.28	0	%100
84	M68	Z	0	0	0	%100
85	M69	X	-1.28	-1.28	0	%100
86	M69	Z	0	0	0	%100
87	M70	X	-2.225	-2.225	0	%100
88	M70	Z	0	0	0	%100
89	M71	X	-2.225	-2.225	0	%100
90	M71	Z	0	0	0	%100
91	MP4C	X	-4.005	-4.005	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	-4.005	-4.005	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	-4.005	-4.005	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	-4.005	-4.005	0	%100
98	MP1C	Z	0	0	0	%100
99	M76	X	-2.086	-2.086	0	%100
100	M76	Z	0	0	0	%100
101	M77	X	-2.086	-2.086	0	%100
102	M77	Z	0	0	0	%100
103	M78	X	-2.086	-2.086	0	%100
104	M78	Z	0	0	0	%100
105	M79	X	-2.086	-2.086	0	%100
106	M79	Z	0	0	0	%100
107	M86	X	-4.81	-4.81	0	%100
108	M86	Z	0	0	0	%100
109	M89	X	-3.006	-3.006	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	-3.006	-3.006	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	-.452	-.452	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	-.452	-.452	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	-.452	-.452	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	-.452	-.452	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	-2.696	-2.696	0	%100
122	M103	Z	0	0	0	%100
123	M104	X	-2.696	-2.696	0	%100
124	M104	Z	0	0	0	%100
125	M105	X	-.384	-.384	0	%100
126	M105	Z	0	0	0	%100
127	OVP	X	-.384	-.384	0	%100
128	OVP	Z	0	0	0	%100



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**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,%]
129	M107	X	-1.356	-1.356	0	%100
130	M107	Z	0	0	0	%100
131	M108	X	-1.356	-1.356	0	%100
132	M108	Z	0	0	0	%100
133	M109	X	-1.356	-1.356	0	%100
134	M109	Z	0	0	0	%100
135	M110	X	-1.356	-1.356	0	%100
136	M110	Z	0	0	0	%100
137	M111	X	-2.225	-2.225	0	%100
138	M111	Z	0	0	0	%100
139	M112	X	-2.225	-2.225	0	%100
140	M112	Z	0	0	0	%100
141	M113	X	-1.28	-1.28	0	%100
142	M113	Z	0	0	0	%100
143	M114	X	-1.28	-1.28	0	%100
144	M114	Z	0	0	0	%100
145	MP4B	X	-4.005	-4.005	0	%100
146	MP4B	Z	0	0	0	%100
147	MP3B	X	-4.005	-4.005	0	%100
148	MP3B	Z	0	0	0	%100
149	MP2B	X	-4.005	-4.005	0	%100
150	MP2B	Z	0	0	0	%100
151	MP1B	X	-4.005	-4.005	0	%100
152	MP1B	Z	0	0	0	%100
153	M119	X	-2.086	-2.086	0	%100
154	M119	Z	0	0	0	%100
155	M120	X	-2.086	-2.086	0	%100
156	M120	Z	0	0	0	%100
157	M121	X	-2.086	-2.086	0	%100
158	M121	Z	0	0	0	%100
159	M122	X	-2.086	-2.086	0	%100
160	M122	Z	0	0	0	%100
161	M129	X	-4.81	-4.81	0	%100
162	M129	Z	0	0	0	%100
163	M132	X	-2.516	-2.516	0	%100
164	M132	Z	0	0	0	%100
165	M134	X	-.048	-.048	0	%100
166	M134	Z	0	0	0	%100
167	M136	X	-2.736	-2.736	0	%100
168	M136	Z	0	0	0	%100
169	OVP3	X	-3.393	-3.393	0	%100
170	OVP3	Z	0	0	0	%100
171	OVP1	X	-3.393	-3.393	0	%100
172	OVP1	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	LV	X	-.868	-.868	0	%100
2	LV	Z	-.501	-.501	0	%100
3	M2	X	-.868	-.868	0	%100
4	M2	Z	-.501	-.501	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	M13	X	-1.174	-1.174	0	% 100
6	M13	Z	-.678	-.678	0	% 100
7	M14	X	-1.174	-1.174	0	% 100
8	M14	Z	-.678	-.678	0	% 100
9	M15	X	-1.174	-1.174	0	% 100
10	M15	Z	-.678	-.678	0	% 100
11	M16	X	-1.174	-1.174	0	% 100
12	M16	Z	-.678	-.678	0	% 100
13	M17	X	-2.049	-2.049	0	% 100
14	M17	Z	-1.183	-1.183	0	% 100
15	M18	X	-2.049	-2.049	0	% 100
16	M18	Z	-1.183	-1.183	0	% 100
17	M19	X	-.047	-.047	0	% 100
18	M19	Z	-.027	-.027	0	% 100
19	M20	X	-.047	-.047	0	% 100
20	M20	Z	-.027	-.027	0	% 100
21	M21	X	-.391	-.391	0	% 100
22	M21	Z	-.226	-.226	0	% 100
23	M22	X	-.391	-.391	0	% 100
24	M22	Z	-.226	-.226	0	% 100
25	M23	X	-.391	-.391	0	% 100
26	M23	Z	-.226	-.226	0	% 100
27	M24	X	-.391	-.391	0	% 100
28	M24	Z	-.226	-.226	0	% 100
29	M25	X	-1.81	-1.81	0	% 100
30	M25	Z	-1.045	-1.045	0	% 100
31	M26	X	-1.81	-1.81	0	% 100
32	M26	Z	-1.045	-1.045	0	% 100
33	M27	X	-.992	-.992	0	% 100
34	M27	Z	-.573	-.573	0	% 100
35	M28	X	-.992	-.992	0	% 100
36	M28	Z	-.573	-.573	0	% 100
37	MP4A	X	-3.469	-3.469	0	% 100
38	MP4A	Z	-2.003	-2.003	0	% 100
39	MP3A	X	-3.469	-3.469	0	% 100
40	MP3A	Z	-2.003	-2.003	0	% 100
41	MP2A	X	-3.469	-3.469	0	% 100
42	MP2A	Z	-2.003	-2.003	0	% 100
43	MP1A	X	-3.469	-3.469	0	% 100
44	MP1A	Z	-2.003	-2.003	0	% 100
45	M44	X	-1.807	-1.807	0	% 100
46	M44	Z	-1.043	-1.043	0	% 100
47	M45	X	-1.807	-1.807	0	% 100
48	M45	Z	-1.043	-1.043	0	% 100
49	M46	X	-1.807	-1.807	0	% 100
50	M46	Z	-1.043	-1.043	0	% 100
51	M47	X	-1.807	-1.807	0	% 100
52	M47	Z	-1.043	-1.043	0	% 100
53	M43	X	-4.166	-4.166	0	% 100
54	M43	Z	-2.405	-2.405	0	% 100
55	M46A	X	-.868	-.868	0	% 100
56	M46A	Z	-.501	-.501	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
57	M47A	X	-.868	-.868	0	% 100
58	M47A	Z	-.501	-.501	0	% 100
59	M56	X	-1.174	-1.174	0	% 100
60	M56	Z	-.678	-.678	0	% 100
61	M57	X	-1.174	-1.174	0	% 100
62	M57	Z	-.678	-.678	0	% 100
63	M58	X	-1.174	-1.174	0	% 100
64	M58	Z	-.678	-.678	0	% 100
65	M59	X	-1.174	-1.174	0	% 100
66	M59	Z	-.678	-.678	0	% 100
67	M60	X	-.047	-.047	0	% 100
68	M60	Z	-.027	-.027	0	% 100
69	M61	X	-.047	-.047	0	% 100
70	M61	Z	-.027	-.027	0	% 100
71	M62	X	-2.049	-2.049	0	% 100
72	M62	Z	-1.183	-1.183	0	% 100
73	OVP2	X	-2.049	-2.049	0	% 100
74	OVP2	Z	-1.183	-1.183	0	% 100
75	M64	X	-.391	-.391	0	% 100
76	M64	Z	-.226	-.226	0	% 100
77	M65	X	-.391	-.391	0	% 100
78	M65	Z	-.226	-.226	0	% 100
79	M66	X	-.391	-.391	0	% 100
80	M66	Z	-.226	-.226	0	% 100
81	M67	X	-.391	-.391	0	% 100
82	M67	Z	-.226	-.226	0	% 100
83	M68	X	-.992	-.992	0	% 100
84	M68	Z	-.573	-.573	0	% 100
85	M69	X	-.992	-.992	0	% 100
86	M69	Z	-.573	-.573	0	% 100
87	M70	X	-1.81	-1.81	0	% 100
88	M70	Z	-1.045	-1.045	0	% 100
89	M71	X	-1.81	-1.81	0	% 100
90	M71	Z	-1.045	-1.045	0	% 100
91	MP4C	X	-3.469	-3.469	0	% 100
92	MP4C	Z	-2.003	-2.003	0	% 100
93	MP3C	X	-3.469	-3.469	0	% 100
94	MP3C	Z	-2.003	-2.003	0	% 100
95	MP2C	X	-3.469	-3.469	0	% 100
96	MP2C	Z	-2.003	-2.003	0	% 100
97	MP1C	X	-3.469	-3.469	0	% 100
98	MP1C	Z	-2.003	-2.003	0	% 100
99	M76	X	-1.807	-1.807	0	% 100
100	M76	Z	-1.043	-1.043	0	% 100
101	M77	X	-1.807	-1.807	0	% 100
102	M77	Z	-1.043	-1.043	0	% 100
103	M78	X	-1.807	-1.807	0	% 100
104	M78	Z	-1.043	-1.043	0	% 100
105	M79	X	-1.807	-1.807	0	% 100
106	M79	Z	-1.043	-1.043	0	% 100
107	M86	X	-4.166	-4.166	0	% 100
108	M86	Z	-2.405	-2.405	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
109	M89	X	-3.471	-3.471	0	%100
110	M89	Z	-2.004	-2.004	0	%100
111	M90	X	-3.471	-3.471	0	%100
112	M90	Z	-2.004	-2.004	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	-1.476	-1.476	0	%100
122	M103	Z	-.852	-.852	0	%100
123	M104	X	-1.476	-1.476	0	%100
124	M104	Z	-.852	-.852	0	%100
125	M105	X	-1.476	-1.476	0	%100
126	M105	Z	-.852	-.852	0	%100
127	OVP	X	-1.476	-1.476	0	%100
128	OVP	Z	-.852	-.852	0	%100
129	M107	X	-1.565	-1.565	0	%100
130	M107	Z	-.904	-.904	0	%100
131	M108	X	-1.565	-1.565	0	%100
132	M108	Z	-.904	-.904	0	%100
133	M109	X	-1.565	-1.565	0	%100
134	M109	Z	-.904	-.904	0	%100
135	M110	X	-1.565	-1.565	0	%100
136	M110	Z	-.904	-.904	0	%100
137	M111	X	-1.576	-1.576	0	%100
138	M111	Z	-.91	-.91	0	%100
139	M112	X	-1.576	-1.576	0	%100
140	M112	Z	-.91	-.91	0	%100
141	M113	X	-1.576	-1.576	0	%100
142	M113	Z	-.91	-.91	0	%100
143	M114	X	-1.576	-1.576	0	%100
144	M114	Z	-.91	-.91	0	%100
145	MP4B	X	-3.469	-3.469	0	%100
146	MP4B	Z	-2.003	-2.003	0	%100
147	MP3B	X	-3.469	-3.469	0	%100
148	MP3B	Z	-2.003	-2.003	0	%100
149	MP2B	X	-3.469	-3.469	0	%100
150	MP2B	Z	-2.003	-2.003	0	%100
151	MP1B	X	-3.469	-3.469	0	%100
152	MP1B	Z	-2.003	-2.003	0	%100
153	M119	X	-1.807	-1.807	0	%100
154	M119	Z	-1.043	-1.043	0	%100
155	M120	X	-1.807	-1.807	0	%100
156	M120	Z	-1.043	-1.043	0	%100
157	M121	X	-1.807	-1.807	0	%100
158	M121	Z	-1.043	-1.043	0	%100
159	M122	X	-1.807	-1.807	0	%100
160	M122	Z	-1.043	-1.043	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
161	M129	X	-4.166	-4.166	0	%100
162	M129	Z	-2.405	-2.405	0	%100
163	M132	X	-3.019	-3.019	0	%100
164	M132	Z	-1.743	-1.743	0	%100
165	M134	X	-.69	-.69	0	%100
166	M134	Z	-.399	-.399	0	%100
167	M136	X	-.881	-.881	0	%100
168	M136	Z	-.509	-.509	0	%100
169	OVP3	X	-2.939	-2.939	0	%100
170	OVP3	Z	-1.697	-1.697	0	%100
171	OVP1	X	-2.939	-2.939	0	%100
172	OVP1	Z	-1.697	-1.697	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	LV	X	-1.503	-1.503	0	%100
2	LV	Z	-2.603	-2.603	0	%100
3	M2	X	-1.503	-1.503	0	%100
4	M2	Z	-2.603	-2.603	0	%100
5	M13	X	-.226	-.226	0	%100
6	M13	Z	-.391	-.391	0	%100
7	M14	X	-.226	-.226	0	%100
8	M14	Z	-.391	-.391	0	%100
9	M15	X	-.226	-.226	0	%100
10	M15	Z	-.391	-.391	0	%100
11	M16	X	-.226	-.226	0	%100
12	M16	Z	-.391	-.391	0	%100
13	M17	X	-1.348	-1.348	0	%100
14	M17	Z	-2.335	-2.335	0	%100
15	M18	X	-1.348	-1.348	0	%100
16	M18	Z	-2.335	-2.335	0	%100
17	M19	X	-.192	-.192	0	%100
18	M19	Z	-.332	-.332	0	%100
19	M20	X	-.192	-.192	0	%100
20	M20	Z	-.332	-.332	0	%100
21	M21	X	-.678	-.678	0	%100
22	M21	Z	-1.174	-1.174	0	%100
23	M22	X	-.678	-.678	0	%100
24	M22	Z	-1.174	-1.174	0	%100
25	M23	X	-.678	-.678	0	%100
26	M23	Z	-1.174	-1.174	0	%100
27	M24	X	-.678	-.678	0	%100
28	M24	Z	-1.174	-1.174	0	%100
29	M25	X	-1.112	-1.112	0	%100
30	M25	Z	-1.927	-1.927	0	%100
31	M26	X	-1.112	-1.112	0	%100
32	M26	Z	-1.927	-1.927	0	%100
33	M27	X	-.64	-.64	0	%100
34	M27	Z	-1.109	-1.109	0	%100
35	M28	X	-.64	-.64	0	%100
36	M28	Z	-1.109	-1.109	0	%100



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**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, %]
37	MP4A	X	-2.003	-2.003	0	% 100
38	MP4A	Z	-3.469	-3.469	0	% 100
39	MP3A	X	-2.003	-2.003	0	% 100
40	MP3A	Z	-3.469	-3.469	0	% 100
41	MP2A	X	-2.003	-2.003	0	% 100
42	MP2A	Z	-3.469	-3.469	0	% 100
43	MP1A	X	-2.003	-2.003	0	% 100
44	MP1A	Z	-3.469	-3.469	0	% 100
45	M44	X	-1.043	-1.043	0	% 100
46	M44	Z	-1.807	-1.807	0	% 100
47	M45	X	-1.043	-1.043	0	% 100
48	M45	Z	-1.807	-1.807	0	% 100
49	M46	X	-1.043	-1.043	0	% 100
50	M46	Z	-1.807	-1.807	0	% 100
51	M47	X	-1.043	-1.043	0	% 100
52	M47	Z	-1.807	-1.807	0	% 100
53	M43	X	-2.405	-2.405	0	% 100
54	M43	Z	-4.166	-4.166	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	0	0	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	-.904	-.904	0	% 100
60	M56	Z	-1.565	-1.565	0	% 100
61	M57	X	-.904	-.904	0	% 100
62	M57	Z	-1.565	-1.565	0	% 100
63	M58	X	-.904	-.904	0	% 100
64	M58	Z	-1.565	-1.565	0	% 100
65	M59	X	-.904	-.904	0	% 100
66	M59	Z	-1.565	-1.565	0	% 100
67	M60	X	-.523	-.523	0	% 100
68	M60	Z	-.905	-.905	0	% 100
69	M61	X	-.523	-.523	0	% 100
70	M61	Z	-.905	-.905	0	% 100
71	M62	X	-.523	-.523	0	% 100
72	M62	Z	-.905	-.905	0	% 100
73	OVP2	X	-.523	-.523	0	% 100
74	OVP2	Z	-.905	-.905	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	-.775	-.775	0	% 100
84	M68	Z	-1.343	-1.343	0	% 100
85	M69	X	-.775	-.775	0	% 100
86	M69	Z	-1.343	-1.343	0	% 100
87	M70	X	-.775	-.775	0	% 100
88	M70	Z	-1.343	-1.343	0	% 100



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**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,%]
89	M71	X	- .775	- .775	0	%100
90	M71	Z	-1.343	-1.343	0	%100
91	MP4C	X	-2.003	-2.003	0	%100
92	MP4C	Z	-3.469	-3.469	0	%100
93	MP3C	X	-2.003	-2.003	0	%100
94	MP3C	Z	-3.469	-3.469	0	%100
95	MP2C	X	-2.003	-2.003	0	%100
96	MP2C	Z	-3.469	-3.469	0	%100
97	MP1C	X	-2.003	-2.003	0	%100
98	MP1C	Z	-3.469	-3.469	0	%100
99	M76	X	-1.043	-1.043	0	%100
100	M76	Z	-1.807	-1.807	0	%100
101	M77	X	-1.043	-1.043	0	%100
102	M77	Z	-1.807	-1.807	0	%100
103	M78	X	-1.043	-1.043	0	%100
104	M78	Z	-1.807	-1.807	0	%100
105	M79	X	-1.043	-1.043	0	%100
106	M79	Z	-1.807	-1.807	0	%100
107	M86	X	-2.405	-2.405	0	%100
108	M86	Z	-4.166	-4.166	0	%100
109	M89	X	-1.503	-1.503	0	%100
110	M89	Z	-2.603	-2.603	0	%100
111	M90	X	-1.503	-1.503	0	%100
112	M90	Z	-2.603	-2.603	0	%100
113	M99	X	- .226	- .226	0	%100
114	M99	Z	- .391	- .391	0	%100
115	M100	X	- .226	- .226	0	%100
116	M100	Z	- .391	- .391	0	%100
117	M101	X	- .226	- .226	0	%100
118	M101	Z	- .391	- .391	0	%100
119	M102	X	- .226	- .226	0	%100
120	M102	Z	- .391	- .391	0	%100
121	M103	X	- .192	- .192	0	%100
122	M103	Z	- .332	- .332	0	%100
123	M104	X	- .192	- .192	0	%100
124	M104	Z	- .332	- .332	0	%100
125	M105	X	-1.348	-1.348	0	%100
126	M105	Z	-2.335	-2.335	0	%100
127	OVP	X	-1.348	-1.348	0	%100
128	OVP	Z	-2.335	-2.335	0	%100
129	M107	X	- .678	- .678	0	%100
130	M107	Z	-1.174	-1.174	0	%100
131	M108	X	- .678	- .678	0	%100
132	M108	Z	-1.174	-1.174	0	%100
133	M109	X	- .678	- .678	0	%100
134	M109	Z	-1.174	-1.174	0	%100
135	M110	X	- .678	- .678	0	%100
136	M110	Z	-1.174	-1.174	0	%100
137	M111	X	- .64	- .64	0	%100
138	M111	Z	-1.109	-1.109	0	%100
139	M112	X	- .64	- .64	0	%100
140	M112	Z	-1.109	-1.109	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, %]
141	M113	X	-1.112	-1.112	0	%100
142	M113	Z	-1.927	-1.927	0	%100
143	M114	X	-1.112	-1.112	0	%100
144	M114	Z	-1.927	-1.927	0	%100
145	MP4B	X	-2.003	-2.003	0	%100
146	MP4B	Z	-3.469	-3.469	0	%100
147	MP3B	X	-2.003	-2.003	0	%100
148	MP3B	Z	-3.469	-3.469	0	%100
149	MP2B	X	-2.003	-2.003	0	%100
150	MP2B	Z	-3.469	-3.469	0	%100
151	MP1B	X	-2.003	-2.003	0	%100
152	MP1B	Z	-3.469	-3.469	0	%100
153	M119	X	-1.043	-1.043	0	%100
154	M119	Z	-1.807	-1.807	0	%100
155	M120	X	-1.043	-1.043	0	%100
156	M120	Z	-1.807	-1.807	0	%100
157	M121	X	-1.043	-1.043	0	%100
158	M121	Z	-1.807	-1.807	0	%100
159	M122	X	-1.043	-1.043	0	%100
160	M122	Z	-1.807	-1.807	0	%100
161	M129	X	-2.405	-2.405	0	%100
162	M129	Z	-4.166	-4.166	0	%100
163	M132	X	-1.368	-1.368	0	%100
164	M132	Z	-2.369	-2.369	0	%100
165	M134	X	-1.258	-1.258	0	%100
166	M134	Z	-2.179	-2.179	0	%100
167	M136	X	-.024	-.024	0	%100
168	M136	Z	-.041	-.041	0	%100
169	OVP3	X	-1.697	-1.697	0	%100
170	OVP3	Z	-2.939	-2.939	0	%100
171	OVP1	X	-1.697	-1.697	0	%100
172	OVP1	Z	-2.939	-2.939	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	LV	X	0	0	0	%100
2	LV	Z	-.597	-.597	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.597	-.597	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.245	-.245	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.245	-.245	0	%100



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**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, %]
17	M19	X	0	0	0	% 100
18	M19	Z	-.245	-.245	0	% 100
19	M20	X	0	0	0	% 100
20	M20	Z	-.245	-.245	0	% 100
21	M21	X	0	0	0	% 100
22	M21	Z	-.157	-.157	0	% 100
23	M22	X	0	0	0	% 100
24	M22	Z	-.157	-.157	0	% 100
25	M23	X	0	0	0	% 100
26	M23	Z	-.157	-.157	0	% 100
27	M24	X	0	0	0	% 100
28	M24	Z	-.157	-.157	0	% 100
29	M25	X	0	0	0	% 100
30	M25	Z	-.127	-.127	0	% 100
31	M26	X	0	0	0	% 100
32	M26	Z	-.127	-.127	0	% 100
33	M27	X	0	0	0	% 100
34	M27	Z	-.127	-.127	0	% 100
35	M28	X	0	0	0	% 100
36	M28	Z	-.127	-.127	0	% 100
37	MP4A	X	0	0	0	% 100
38	MP4A	Z	-.597	-.597	0	% 100
39	MP3A	X	0	0	0	% 100
40	MP3A	Z	-.597	-.597	0	% 100
41	MP2A	X	0	0	0	% 100
42	MP2A	Z	-.597	-.597	0	% 100
43	MP1A	X	0	0	0	% 100
44	MP1A	Z	-.597	-.597	0	% 100
45	M44	X	0	0	0	% 100
46	M44	Z	-.157	-.157	0	% 100
47	M45	X	0	0	0	% 100
48	M45	Z	-.157	-.157	0	% 100
49	M46	X	0	0	0	% 100
50	M46	Z	-.157	-.157	0	% 100
51	M47	X	0	0	0	% 100
52	M47	Z	-.157	-.157	0	% 100
53	M43	X	0	0	0	% 100
54	M43	Z	-.786	-.786	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	-.149	-.149	0	% 100
57	M47A	X	0	0	0	% 100
58	M47A	Z	-.149	-.149	0	% 100
59	M56	X	0	0	0	% 100
60	M56	Z	-.118	-.118	0	% 100
61	M57	X	0	0	0	% 100
62	M57	Z	-.118	-.118	0	% 100
63	M58	X	0	0	0	% 100
64	M58	Z	-.118	-.118	0	% 100
65	M59	X	0	0	0	% 100
66	M59	Z	-.118	-.118	0	% 100
67	M60	X	0	0	0	% 100
68	M60	Z	-.341	-.341	0	% 100



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**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,%]
69	M61	X	0	0	0	% 100
70	M61	Z	-.341	-.341	0	% 100
71	M62	X	0	0	0	% 100
72	M62	Z	-.008	-.008	0	% 100
73	OVP2	X	0	0	0	% 100
74	OVP2	Z	-.008	-.008	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	-.039	-.039	0	% 100
77	M65	X	0	0	0	% 100
78	M65	Z	-.039	-.039	0	% 100
79	M66	X	0	0	0	% 100
80	M66	Z	-.039	-.039	0	% 100
81	M67	X	0	0	0	% 100
82	M67	Z	-.039	-.039	0	% 100
83	M68	X	0	0	0	% 100
84	M68	Z	-.146	-.146	0	% 100
85	M69	X	0	0	0	% 100
86	M69	Z	-.146	-.146	0	% 100
87	M70	X	0	0	0	% 100
88	M70	Z	-.08	-.08	0	% 100
89	M71	X	0	0	0	% 100
90	M71	Z	-.08	-.08	0	% 100
91	MP4C	X	0	0	0	% 100
92	MP4C	Z	-.597	-.597	0	% 100
93	MP3C	X	0	0	0	% 100
94	MP3C	Z	-.597	-.597	0	% 100
95	MP2C	X	0	0	0	% 100
96	MP2C	Z	-.597	-.597	0	% 100
97	MP1C	X	0	0	0	% 100
98	MP1C	Z	-.597	-.597	0	% 100
99	M76	X	0	0	0	% 100
100	M76	Z	-.157	-.157	0	% 100
101	M77	X	0	0	0	% 100
102	M77	Z	-.157	-.157	0	% 100
103	M78	X	0	0	0	% 100
104	M78	Z	-.157	-.157	0	% 100
105	M79	X	0	0	0	% 100
106	M79	Z	-.157	-.157	0	% 100
107	M86	X	0	0	0	% 100
108	M86	Z	-.786	-.786	0	% 100
109	M89	X	0	0	0	% 100
110	M89	Z	-.149	-.149	0	% 100
111	M90	X	0	0	0	% 100
112	M90	Z	-.149	-.149	0	% 100
113	M99	X	0	0	0	% 100
114	M99	Z	-.118	-.118	0	% 100
115	M100	X	0	0	0	% 100
116	M100	Z	-.118	-.118	0	% 100
117	M101	X	0	0	0	% 100
118	M101	Z	-.118	-.118	0	% 100
119	M102	X	0	0	0	% 100
120	M102	Z	-.118	-.118	0	% 100



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**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, %]
121	M103	X	0	0	0	%100
122	M103	Z	-.008	-.008	0	%100
123	M104	X	0	0	0	%100
124	M104	Z	-.008	-.008	0	%100
125	M105	X	0	0	0	%100
126	M105	Z	-.341	-.341	0	%100
127	OVP	X	0	0	0	%100
128	OVP	Z	-.341	-.341	0	%100
129	M107	X	0	0	0	%100
130	M107	Z	-.039	-.039	0	%100
131	M108	X	0	0	0	%100
132	M108	Z	-.039	-.039	0	%100
133	M109	X	0	0	0	%100
134	M109	Z	-.039	-.039	0	%100
135	M110	X	0	0	0	%100
136	M110	Z	-.039	-.039	0	%100
137	M111	X	0	0	0	%100
138	M111	Z	-.08	-.08	0	%100
139	M112	X	0	0	0	%100
140	M112	Z	-.08	-.08	0	%100
141	M113	X	0	0	0	%100
142	M113	Z	-.146	-.146	0	%100
143	M114	X	0	0	0	%100
144	M114	Z	-.146	-.146	0	%100
145	MP4B	X	0	0	0	%100
146	MP4B	Z	-.597	-.597	0	%100
147	MP3B	X	0	0	0	%100
148	MP3B	Z	-.597	-.597	0	%100
149	MP2B	X	0	0	0	%100
150	MP2B	Z	-.597	-.597	0	%100
151	MP1B	X	0	0	0	%100
152	MP1B	Z	-.597	-.597	0	%100
153	M119	X	0	0	0	%100
154	M119	Z	-.157	-.157	0	%100
155	M120	X	0	0	0	%100
156	M120	Z	-.157	-.157	0	%100
157	M121	X	0	0	0	%100
158	M121	Z	-.157	-.157	0	%100
159	M122	X	0	0	0	%100
160	M122	Z	-.157	-.157	0	%100
161	M129	X	0	0	0	%100
162	M129	Z	-.786	-.786	0	%100
163	M132	X	0	0	0	%100
164	M132	Z	-.164	-.164	0	%100
165	M134	X	0	0	0	%100
166	M134	Z	-.56	-.56	0	%100
167	M136	X	0	0	0	%100
168	M136	Z	-.128	-.128	0	%100
169	OVP3	X	0	0	0	%100
170	OVP3	Z	-.544	-.544	0	%100
171	OVP1	X	0	0	0	%100
172	OVP1	Z	-.544	-.544	0	%100



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**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	LV	X	.224	.224	0	% 100
2	LV	Z	-.388	-.388	0	% 100
3	M2	X	.224	.224	0	% 100
4	M2	Z	-.388	-.388	0	% 100
5	M13	X	.02	.02	0	% 100
6	M13	Z	-.034	-.034	0	% 100
7	M14	X	.02	.02	0	% 100
8	M14	Z	-.034	-.034	0	% 100
9	M15	X	.02	.02	0	% 100
10	M15	Z	-.034	-.034	0	% 100
11	M16	X	.02	.02	0	% 100
12	M16	Z	-.034	-.034	0	% 100
13	M17	X	.028	.028	0	% 100
14	M17	Z	-.048	-.048	0	% 100
15	M18	X	.028	.028	0	% 100
16	M18	Z	-.048	-.048	0	% 100
17	M19	X	.194	.194	0	% 100
18	M19	Z	-.336	-.336	0	% 100
19	M20	X	.194	.194	0	% 100
20	M20	Z	-.336	-.336	0	% 100
21	M21	X	.059	.059	0	% 100
22	M21	Z	-.102	-.102	0	% 100
23	M22	X	.059	.059	0	% 100
24	M22	Z	-.102	-.102	0	% 100
25	M23	X	.059	.059	0	% 100
26	M23	Z	-.102	-.102	0	% 100
27	M24	X	.059	.059	0	% 100
28	M24	Z	-.102	-.102	0	% 100
29	M25	X	.045	.045	0	% 100
30	M25	Z	-.077	-.077	0	% 100
31	M26	X	.045	.045	0	% 100
32	M26	Z	-.077	-.077	0	% 100
33	M27	X	.078	.078	0	% 100
34	M27	Z	-.135	-.135	0	% 100
35	M28	X	.078	.078	0	% 100
36	M28	Z	-.135	-.135	0	% 100
37	MP4A	X	.298	.298	0	% 100
38	MP4A	Z	-.517	-.517	0	% 100
39	MP3A	X	.298	.298	0	% 100
40	MP3A	Z	-.517	-.517	0	% 100
41	MP2A	X	.298	.298	0	% 100
42	MP2A	Z	-.517	-.517	0	% 100
43	MP1A	X	.298	.298	0	% 100
44	MP1A	Z	-.517	-.517	0	% 100
45	M44	X	.079	.079	0	% 100
46	M44	Z	-.136	-.136	0	% 100
47	M45	X	.079	.079	0	% 100
48	M45	Z	-.136	-.136	0	% 100
49	M46	X	.079	.079	0	% 100
50	M46	Z	-.136	-.136	0	% 100
51	M47	X	.079	.079	0	% 100
52	M47	Z	-.136	-.136	0	% 100



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**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, %]
53	M43	X	.393	.393	0	% 100
54	M43	Z	-.681	-.681	0	% 100
55	M46A	X	.224	.224	0	% 100
56	M46A	Z	-.388	-.388	0	% 100
57	M47A	X	.224	.224	0	% 100
58	M47A	Z	-.388	-.388	0	% 100
59	M56	X	.02	.02	0	% 100
60	M56	Z	-.034	-.034	0	% 100
61	M57	X	.02	.02	0	% 100
62	M57	Z	-.034	-.034	0	% 100
63	M58	X	.02	.02	0	% 100
64	M58	Z	-.034	-.034	0	% 100
65	M59	X	.02	.02	0	% 100
66	M59	Z	-.034	-.034	0	% 100
67	M60	X	.194	.194	0	% 100
68	M60	Z	-.336	-.336	0	% 100
69	M61	X	.194	.194	0	% 100
70	M61	Z	-.336	-.336	0	% 100
71	M62	X	.028	.028	0	% 100
72	M62	Z	-.048	-.048	0	% 100
73	OVP2	X	.028	.028	0	% 100
74	OVP2	Z	-.048	-.048	0	% 100
75	M64	X	.059	.059	0	% 100
76	M64	Z	-.102	-.102	0	% 100
77	M65	X	.059	.059	0	% 100
78	M65	Z	-.102	-.102	0	% 100
79	M66	X	.059	.059	0	% 100
80	M66	Z	-.102	-.102	0	% 100
81	M67	X	.059	.059	0	% 100
82	M67	Z	-.102	-.102	0	% 100
83	M68	X	.078	.078	0	% 100
84	M68	Z	-.135	-.135	0	% 100
85	M69	X	.078	.078	0	% 100
86	M69	Z	-.135	-.135	0	% 100
87	M70	X	.045	.045	0	% 100
88	M70	Z	-.077	-.077	0	% 100
89	M71	X	.045	.045	0	% 100
90	M71	Z	-.077	-.077	0	% 100
91	MP4C	X	.298	.298	0	% 100
92	MP4C	Z	-.517	-.517	0	% 100
93	MP3C	X	.298	.298	0	% 100
94	MP3C	Z	-.517	-.517	0	% 100
95	MP2C	X	.298	.298	0	% 100
96	MP2C	Z	-.517	-.517	0	% 100
97	MP1C	X	.298	.298	0	% 100
98	MP1C	Z	-.517	-.517	0	% 100
99	M76	X	.079	.079	0	% 100
100	M76	Z	-.136	-.136	0	% 100
101	M77	X	.079	.079	0	% 100
102	M77	Z	-.136	-.136	0	% 100
103	M78	X	.079	.079	0	% 100
104	M78	Z	-.136	-.136	0	% 100



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**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, %]
105	M79	X	.079	.079	0	% 100
106	M79	Z	-.136	-.136	0	% 100
107	M86	X	.393	.393	0	% 100
108	M86	Z	-.681	-.681	0	% 100
109	M89	X	0	0	0	% 100
110	M89	Z	0	0	0	% 100
111	M90	X	0	0	0	% 100
112	M90	Z	0	0	0	% 100
113	M99	X	.079	.079	0	% 100
114	M99	Z	-.136	-.136	0	% 100
115	M100	X	.079	.079	0	% 100
116	M100	Z	-.136	-.136	0	% 100
117	M101	X	.079	.079	0	% 100
118	M101	Z	-.136	-.136	0	% 100
119	M102	X	.079	.079	0	% 100
120	M102	Z	-.136	-.136	0	% 100
121	M103	X	.075	.075	0	% 100
122	M103	Z	-.13	-.13	0	% 100
123	M104	X	.075	.075	0	% 100
124	M104	Z	-.13	-.13	0	% 100
125	M105	X	.075	.075	0	% 100
126	M105	Z	-.13	-.13	0	% 100
127	OVP	X	.075	.075	0	% 100
128	OVP	Z	-.13	-.13	0	% 100
129	M107	X	0	0	0	% 100
130	M107	Z	0	0	0	% 100
131	M108	X	0	0	0	% 100
132	M108	Z	0	0	0	% 100
133	M109	X	0	0	0	% 100
134	M109	Z	0	0	0	% 100
135	M110	X	0	0	0	% 100
136	M110	Z	0	0	0	% 100
137	M111	X	.054	.054	0	% 100
138	M111	Z	-.094	-.094	0	% 100
139	M112	X	.054	.054	0	% 100
140	M112	Z	-.094	-.094	0	% 100
141	M113	X	.054	.054	0	% 100
142	M113	Z	-.094	-.094	0	% 100
143	M114	X	.054	.054	0	% 100
144	M114	Z	-.094	-.094	0	% 100
145	MP4B	X	.298	.298	0	% 100
146	MP4B	Z	-.517	-.517	0	% 100
147	MP3B	X	.298	.298	0	% 100
148	MP3B	Z	-.517	-.517	0	% 100
149	MP2B	X	.298	.298	0	% 100
150	MP2B	Z	-.517	-.517	0	% 100
151	MP1B	X	.298	.298	0	% 100
152	MP1B	Z	-.517	-.517	0	% 100
153	M119	X	.079	.079	0	% 100
154	M119	Z	-.136	-.136	0	% 100
155	M120	X	.079	.079	0	% 100
156	M120	Z	-.136	-.136	0	% 100



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**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, %]
157	M121	X	.079	.079	0	% 100
158	M121	Z	-.136	-.136	0	% 100
159	M122	X	.079	.079	0	% 100
160	M122	Z	-.136	-.136	0	% 100
161	M129	X	.393	.393	0	% 100
162	M129	Z	-.681	-.681	0	% 100
163	M132	X	.004	.004	0	% 100
164	M132	Z	-.007	-.007	0	% 100
165	M134	X	.22	.22	0	% 100
166	M134	Z	-.381	-.381	0	% 100
167	M136	X	.202	.202	0	% 100
168	M136	Z	-.35	-.35	0	% 100
169	OVP3	X	.272	.272	0	% 100
170	OVP3	Z	-.471	-.471	0	% 100
171	OVP1	X	.272	.272	0	% 100
172	OVP1	Z	-.471	-.471	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	LV	X	.129	.129	0	% 100
2	LV	Z	-.075	-.075	0	% 100
3	M2	X	.129	.129	0	% 100
4	M2	Z	-.075	-.075	0	% 100
5	M13	X	.102	.102	0	% 100
6	M13	Z	-.059	-.059	0	% 100
7	M14	X	.102	.102	0	% 100
8	M14	Z	-.059	-.059	0	% 100
9	M15	X	.102	.102	0	% 100
10	M15	Z	-.059	-.059	0	% 100
11	M16	X	.102	.102	0	% 100
12	M16	Z	-.059	-.059	0	% 100
13	M17	X	.007	.007	0	% 100
14	M17	Z	-.004	-.004	0	% 100
15	M18	X	.007	.007	0	% 100
16	M18	Z	-.004	-.004	0	% 100
17	M19	X	.295	.295	0	% 100
18	M19	Z	-.17	-.17	0	% 100
19	M20	X	.295	.295	0	% 100
20	M20	Z	-.17	-.17	0	% 100
21	M21	X	.034	.034	0	% 100
22	M21	Z	-.02	-.02	0	% 100
23	M22	X	.034	.034	0	% 100
24	M22	Z	-.02	-.02	0	% 100
25	M23	X	.034	.034	0	% 100
26	M23	Z	-.02	-.02	0	% 100
27	M24	X	.034	.034	0	% 100
28	M24	Z	-.02	-.02	0	% 100
29	M25	X	.069	.069	0	% 100
30	M25	Z	-.04	-.04	0	% 100
31	M26	X	.069	.069	0	% 100
32	M26	Z	-.04	-.04	0	% 100



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**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,%]
33	M27	X	.126	.126	0	%100
34	M27	Z	-.073	-.073	0	%100
35	M28	X	.126	.126	0	%100
36	M28	Z	-.073	-.073	0	%100
37	MP4A	X	.517	.517	0	%100
38	MP4A	Z	-.298	-.298	0	%100
39	MP3A	X	.517	.517	0	%100
40	MP3A	Z	-.298	-.298	0	%100
41	MP2A	X	.517	.517	0	%100
42	MP2A	Z	-.298	-.298	0	%100
43	MP1A	X	.517	.517	0	%100
44	MP1A	Z	-.298	-.298	0	%100
45	M44	X	.136	.136	0	%100
46	M44	Z	-.079	-.079	0	%100
47	M45	X	.136	.136	0	%100
48	M45	Z	-.079	-.079	0	%100
49	M46	X	.136	.136	0	%100
50	M46	Z	-.079	-.079	0	%100
51	M47	X	.136	.136	0	%100
52	M47	Z	-.079	-.079	0	%100
53	M43	X	.681	.681	0	%100
54	M43	Z	-.393	-.393	0	%100
55	M46A	X	.517	.517	0	%100
56	M46A	Z	-.298	-.298	0	%100
57	M47A	X	.517	.517	0	%100
58	M47A	Z	-.298	-.298	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M57	X	0	0	0	%100
62	M57	Z	0	0	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	0	0	0	%100
67	M60	X	.213	.213	0	%100
68	M60	Z	-.123	-.123	0	%100
69	M61	X	.213	.213	0	%100
70	M61	Z	-.123	-.123	0	%100
71	M62	X	.213	.213	0	%100
72	M62	Z	-.123	-.123	0	%100
73	OVP2	X	.213	.213	0	%100
74	OVP2	Z	-.123	-.123	0	%100
75	M64	X	.136	.136	0	%100
76	M64	Z	-.079	-.079	0	%100
77	M65	X	.136	.136	0	%100
78	M65	Z	-.079	-.079	0	%100
79	M66	X	.136	.136	0	%100
80	M66	Z	-.079	-.079	0	%100
81	M67	X	.136	.136	0	%100
82	M67	Z	-.079	-.079	0	%100
83	M68	X	.11	.11	0	%100
84	M68	Z	-.064	-.064	0	%100



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**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, %]
85	M69	X	.11	.11	0	%100
86	M69	Z	-.064	-.064	0	%100
87	M70	X	.11	.11	0	%100
88	M70	Z	-.064	-.064	0	%100
89	M71	X	.11	.11	0	%100
90	M71	Z	-.064	-.064	0	%100
91	MP4C	X	.517	.517	0	%100
92	MP4C	Z	-.298	-.298	0	%100
93	MP3C	X	.517	.517	0	%100
94	MP3C	Z	-.298	-.298	0	%100
95	MP2C	X	.517	.517	0	%100
96	MP2C	Z	-.298	-.298	0	%100
97	MP1C	X	.517	.517	0	%100
98	MP1C	Z	-.298	-.298	0	%100
99	M76	X	.136	.136	0	%100
100	M76	Z	-.079	-.079	0	%100
101	M77	X	.136	.136	0	%100
102	M77	Z	-.079	-.079	0	%100
103	M78	X	.136	.136	0	%100
104	M78	Z	-.079	-.079	0	%100
105	M79	X	.136	.136	0	%100
106	M79	Z	-.079	-.079	0	%100
107	M86	X	.681	.681	0	%100
108	M86	Z	-.393	-.393	0	%100
109	M89	X	.129	.129	0	%100
110	M89	Z	-.075	-.075	0	%100
111	M90	X	.129	.129	0	%100
112	M90	Z	-.075	-.075	0	%100
113	M99	X	.102	.102	0	%100
114	M99	Z	-.059	-.059	0	%100
115	M100	X	.102	.102	0	%100
116	M100	Z	-.059	-.059	0	%100
117	M101	X	.102	.102	0	%100
118	M101	Z	-.059	-.059	0	%100
119	M102	X	.102	.102	0	%100
120	M102	Z	-.059	-.059	0	%100
121	M103	X	.295	.295	0	%100
122	M103	Z	-.17	-.17	0	%100
123	M104	X	.295	.295	0	%100
124	M104	Z	-.17	-.17	0	%100
125	M105	X	.007	.007	0	%100
126	M105	Z	-.004	-.004	0	%100
127	OVP	X	.007	.007	0	%100
128	OVP	Z	-.004	-.004	0	%100
129	M107	X	.034	.034	0	%100
130	M107	Z	-.02	-.02	0	%100
131	M108	X	.034	.034	0	%100
132	M108	Z	-.02	-.02	0	%100
133	M109	X	.034	.034	0	%100
134	M109	Z	-.02	-.02	0	%100
135	M110	X	.034	.034	0	%100
136	M110	Z	-.02	-.02	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, %]
137	M111	X	.126	.126	0	%100
138	M111	Z	-.073	-.073	0	%100
139	M112	X	.126	.126	0	%100
140	M112	Z	-.073	-.073	0	%100
141	M113	X	.069	.069	0	%100
142	M113	Z	-.04	-.04	0	%100
143	M114	X	.069	.069	0	%100
144	M114	Z	-.04	-.04	0	%100
145	MP4B	X	.517	.517	0	%100
146	MP4B	Z	-.298	-.298	0	%100
147	MP3B	X	.517	.517	0	%100
148	MP3B	Z	-.298	-.298	0	%100
149	MP2B	X	.517	.517	0	%100
150	MP2B	Z	-.298	-.298	0	%100
151	MP1B	X	.517	.517	0	%100
152	MP1B	Z	-.298	-.298	0	%100
153	M119	X	.136	.136	0	%100
154	M119	Z	-.079	-.079	0	%100
155	M120	X	.136	.136	0	%100
156	M120	Z	-.079	-.079	0	%100
157	M121	X	.136	.136	0	%100
158	M121	Z	-.079	-.079	0	%100
159	M122	X	.136	.136	0	%100
160	M122	Z	-.079	-.079	0	%100
161	M129	X	.681	.681	0	%100
162	M129	Z	-.393	-.393	0	%100
163	M132	X	.111	.111	0	%100
164	M132	Z	-.064	-.064	0	%100
165	M134	X	.142	.142	0	%100
166	M134	Z	-.082	-.082	0	%100
167	M136	X	.485	.485	0	%100
168	M136	Z	-.28	-.28	0	%100
169	OVP3	X	.471	.471	0	%100
170	OVP3	Z	-.272	-.272	0	%100
171	OVP1	X	.471	.471	0	%100
172	OVP1	Z	-.272	-.272	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	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.157	.157	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.157	.157	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.157	.157	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.157	.157	0	%100
12	M16	Z	0	0	0	%100



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**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,%]
13	M17	X	.151	.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.151	.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.151	.151	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.151	.151	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.108	.108	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.108	.108	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.108	.108	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.108	.108	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	.597	.597	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.597	.597	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	.597	.597	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	.597	.597	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	.157	.157	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	.157	.157	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.157	.157	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.157	.157	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	.786	.786	0	%100
54	M43	Z	0	0	0	%100
55	M46A	X	.448	.448	0	%100
56	M46A	Z	0	0	0	%100
57	M47A	X	.448	.448	0	%100
58	M47A	Z	0	0	0	%100
59	M56	X	.039	.039	0	%100
60	M56	Z	0	0	0	%100
61	M57	X	.039	.039	0	%100
62	M57	Z	0	0	0	%100
63	M58	X	.039	.039	0	%100
64	M58	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	M59	X	.039	.039	0	%100
66	M59	Z	0	0	0	%100
67	M60	X	.055	.055	0	%100
68	M60	Z	0	0	0	%100
69	M61	X	.055	.055	0	%100
70	M61	Z	0	0	0	%100
71	M62	X	.388	.388	0	%100
72	M62	Z	0	0	0	%100
73	OVP2	X	.388	.388	0	%100
74	OVP2	Z	0	0	0	%100
75	M64	X	.118	.118	0	%100
76	M64	Z	0	0	0	%100
77	M65	X	.118	.118	0	%100
78	M65	Z	0	0	0	%100
79	M66	X	.118	.118	0	%100
80	M66	Z	0	0	0	%100
81	M67	X	.118	.118	0	%100
82	M67	Z	0	0	0	%100
83	M68	X	.089	.089	0	%100
84	M68	Z	0	0	0	%100
85	M69	X	.089	.089	0	%100
86	M69	Z	0	0	0	%100
87	M70	X	.155	.155	0	%100
88	M70	Z	0	0	0	%100
89	M71	X	.155	.155	0	%100
90	M71	Z	0	0	0	%100
91	MP4C	X	.597	.597	0	%100
92	MP4C	Z	0	0	0	%100
93	MP3C	X	.597	.597	0	%100
94	MP3C	Z	0	0	0	%100
95	MP2C	X	.597	.597	0	%100
96	MP2C	Z	0	0	0	%100
97	MP1C	X	.597	.597	0	%100
98	MP1C	Z	0	0	0	%100
99	M76	X	.157	.157	0	%100
100	M76	Z	0	0	0	%100
101	M77	X	.157	.157	0	%100
102	M77	Z	0	0	0	%100
103	M78	X	.157	.157	0	%100
104	M78	Z	0	0	0	%100
105	M79	X	.157	.157	0	%100
106	M79	Z	0	0	0	%100
107	M86	X	.786	.786	0	%100
108	M86	Z	0	0	0	%100
109	M89	X	.448	.448	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	.448	.448	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	.039	.039	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	.039	.039	0	%100
116	M100	Z	0	0	0	%100



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

	Member Label	Direction	Start Magniude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
117	M101	X	.039	.039	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	.039	.039	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	.388	.388	0	%100
122	M103	Z	0	0	0	%100
123	M104	X	.388	.388	0	%100
124	M104	Z	0	0	0	%100
125	M105	X	.055	.055	0	%100
126	M105	Z	0	0	0	%100
127	OVP	X	.055	.055	0	%100
128	OVP	Z	0	0	0	%100
129	M107	X	.118	.118	0	%100
130	M107	Z	0	0	0	%100
131	M108	X	.118	.118	0	%100
132	M108	Z	0	0	0	%100
133	M109	X	.118	.118	0	%100
134	M109	Z	0	0	0	%100
135	M110	X	.118	.118	0	%100
136	M110	Z	0	0	0	%100
137	M111	X	.155	.155	0	%100
138	M111	Z	0	0	0	%100
139	M112	X	.155	.155	0	%100
140	M112	Z	0	0	0	%100
141	M113	X	.089	.089	0	%100
142	M113	Z	0	0	0	%100
143	M114	X	.089	.089	0	%100
144	M114	Z	0	0	0	%100
145	MP4B	X	.597	.597	0	%100
146	MP4B	Z	0	0	0	%100
147	MP3B	X	.597	.597	0	%100
148	MP3B	Z	0	0	0	%100
149	MP2B	X	.597	.597	0	%100
150	MP2B	Z	0	0	0	%100
151	MP1B	X	.597	.597	0	%100
152	MP1B	Z	0	0	0	%100
153	M119	X	.157	.157	0	%100
154	M119	Z	0	0	0	%100
155	M120	X	.157	.157	0	%100
156	M120	Z	0	0	0	%100
157	M121	X	.157	.157	0	%100
158	M121	Z	0	0	0	%100
159	M122	X	.157	.157	0	%100
160	M122	Z	0	0	0	%100
161	M129	X	.786	.786	0	%100
162	M129	Z	0	0	0	%100
163	M132	X	.405	.405	0	%100
164	M132	Z	0	0	0	%100
165	M134	X	.008	.008	0	%100
166	M134	Z	0	0	0	%100
167	M136	X	.44	.44	0	%100
168	M136	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,%]
169	OVP3	X	.544	.544	0	% 100
170	OVP3	Z	0	0	0	% 100
171	OVP1	X	.544	.544	0	% 100
172	OVP1	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	LV	X	.129	.129	0	% 100
2	LV	Z	.075	.075	0	% 100
3	M2	X	.129	.129	0	% 100
4	M2	Z	.075	.075	0	% 100
5	M13	X	.102	.102	0	% 100
6	M13	Z	.059	.059	0	% 100
7	M14	X	.102	.102	0	% 100
8	M14	Z	.059	.059	0	% 100
9	M15	X	.102	.102	0	% 100
10	M15	Z	.059	.059	0	% 100
11	M16	X	.102	.102	0	% 100
12	M16	Z	.059	.059	0	% 100
13	M17	X	.295	.295	0	% 100
14	M17	Z	.17	.17	0	% 100
15	M18	X	.295	.295	0	% 100
16	M18	Z	.17	.17	0	% 100
17	M19	X	.007	.007	0	% 100
18	M19	Z	.004	.004	0	% 100
19	M20	X	.007	.007	0	% 100
20	M20	Z	.004	.004	0	% 100
21	M21	X	.034	.034	0	% 100
22	M21	Z	.02	.02	0	% 100
23	M22	X	.034	.034	0	% 100
24	M22	Z	.02	.02	0	% 100
25	M23	X	.034	.034	0	% 100
26	M23	Z	.02	.02	0	% 100
27	M24	X	.034	.034	0	% 100
28	M24	Z	.02	.02	0	% 100
29	M25	X	.126	.126	0	% 100
30	M25	Z	.073	.073	0	% 100
31	M26	X	.126	.126	0	% 100
32	M26	Z	.073	.073	0	% 100
33	M27	X	.069	.069	0	% 100
34	M27	Z	.04	.04	0	% 100
35	M28	X	.069	.069	0	% 100
36	M28	Z	.04	.04	0	% 100
37	MP4A	X	.517	.517	0	% 100
38	MP4A	Z	.298	.298	0	% 100
39	MP3A	X	.517	.517	0	% 100
40	MP3A	Z	.298	.298	0	% 100
41	MP2A	X	.517	.517	0	% 100
42	MP2A	Z	.298	.298	0	% 100
43	MP1A	X	.517	.517	0	% 100
44	MP1A	Z	.298	.298	0	% 100



Company :  
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**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,%]
45	M44	X	.136	.136	0	%100
46	M44	Z	.079	.079	0	%100
47	M45	X	.136	.136	0	%100
48	M45	Z	.079	.079	0	%100
49	M46	X	.136	.136	0	%100
50	M46	Z	.079	.079	0	%100
51	M47	X	.136	.136	0	%100
52	M47	Z	.079	.079	0	%100
53	M43	X	.681	.681	0	%100
54	M43	Z	.393	.393	0	%100
55	M46A	X	.129	.129	0	%100
56	M46A	Z	.075	.075	0	%100
57	M47A	X	.129	.129	0	%100
58	M47A	Z	.075	.075	0	%100
59	M56	X	.102	.102	0	%100
60	M56	Z	.059	.059	0	%100
61	M57	X	.102	.102	0	%100
62	M57	Z	.059	.059	0	%100
63	M58	X	.102	.102	0	%100
64	M58	Z	.059	.059	0	%100
65	M59	X	.102	.102	0	%100
66	M59	Z	.059	.059	0	%100
67	M60	X	.007	.007	0	%100
68	M60	Z	.004	.004	0	%100
69	M61	X	.007	.007	0	%100
70	M61	Z	.004	.004	0	%100
71	M62	X	.295	.295	0	%100
72	M62	Z	.17	.17	0	%100
73	OVP2	X	.295	.295	0	%100
74	OVP2	Z	.17	.17	0	%100
75	M64	X	.034	.034	0	%100
76	M64	Z	.02	.02	0	%100
77	M65	X	.034	.034	0	%100
78	M65	Z	.02	.02	0	%100
79	M66	X	.034	.034	0	%100
80	M66	Z	.02	.02	0	%100
81	M67	X	.034	.034	0	%100
82	M67	Z	.02	.02	0	%100
83	M68	X	.069	.069	0	%100
84	M68	Z	.04	.04	0	%100
85	M69	X	.069	.069	0	%100
86	M69	Z	.04	.04	0	%100
87	M70	X	.126	.126	0	%100
88	M70	Z	.073	.073	0	%100
89	M71	X	.126	.126	0	%100
90	M71	Z	.073	.073	0	%100
91	MP4C	X	.517	.517	0	%100
92	MP4C	Z	.298	.298	0	%100
93	MP3C	X	.517	.517	0	%100
94	MP3C	Z	.298	.298	0	%100
95	MP2C	X	.517	.517	0	%100
96	MP2C	Z	.298	.298	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, %]
97	MP1C	X	.517	.517	0	% 100
98	MP1C	Z	.298	.298	0	% 100
99	M76	X	.136	.136	0	% 100
100	M76	Z	.079	.079	0	% 100
101	M77	X	.136	.136	0	% 100
102	M77	Z	.079	.079	0	% 100
103	M78	X	.136	.136	0	% 100
104	M78	Z	.079	.079	0	% 100
105	M79	X	.136	.136	0	% 100
106	M79	Z	.079	.079	0	% 100
107	M86	X	.681	.681	0	% 100
108	M86	Z	.393	.393	0	% 100
109	M89	X	.517	.517	0	% 100
110	M89	Z	.298	.298	0	% 100
111	M90	X	.517	.517	0	% 100
112	M90	Z	.298	.298	0	% 100
113	M99	X	0	0	0	% 100
114	M99	Z	0	0	0	% 100
115	M100	X	0	0	0	% 100
116	M100	Z	0	0	0	% 100
117	M101	X	0	0	0	% 100
118	M101	Z	0	0	0	% 100
119	M102	X	0	0	0	% 100
120	M102	Z	0	0	0	% 100
121	M103	X	.213	.213	0	% 100
122	M103	Z	.123	.123	0	% 100
123	M104	X	.213	.213	0	% 100
124	M104	Z	.123	.123	0	% 100
125	M105	X	.213	.213	0	% 100
126	M105	Z	.123	.123	0	% 100
127	OVP	X	.213	.213	0	% 100
128	OVP	Z	.123	.123	0	% 100
129	M107	X	.136	.136	0	% 100
130	M107	Z	.079	.079	0	% 100
131	M108	X	.136	.136	0	% 100
132	M108	Z	.079	.079	0	% 100
133	M109	X	.136	.136	0	% 100
134	M109	Z	.079	.079	0	% 100
135	M110	X	.136	.136	0	% 100
136	M110	Z	.079	.079	0	% 100
137	M111	X	.11	.11	0	% 100
138	M111	Z	.064	.064	0	% 100
139	M112	X	.11	.11	0	% 100
140	M112	Z	.064	.064	0	% 100
141	M113	X	.11	.11	0	% 100
142	M113	Z	.064	.064	0	% 100
143	M114	X	.11	.11	0	% 100
144	M114	Z	.064	.064	0	% 100
145	MP4B	X	.517	.517	0	% 100
146	MP4B	Z	.298	.298	0	% 100
147	MP3B	X	.517	.517	0	% 100
148	MP3B	Z	.298	.298	0	% 100



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**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, %]
149	MP2B	X	.517	.517	0	%100
150	MP2B	Z	.298	.298	0	%100
151	MP1B	X	.517	.517	0	%100
152	MP1B	Z	.298	.298	0	%100
153	M119	X	.136	.136	0	%100
154	M119	Z	.079	.079	0	%100
155	M120	X	.136	.136	0	%100
156	M120	Z	.079	.079	0	%100
157	M121	X	.136	.136	0	%100
158	M121	Z	.079	.079	0	%100
159	M122	X	.136	.136	0	%100
160	M122	Z	.079	.079	0	%100
161	M129	X	.681	.681	0	%100
162	M129	Z	.393	.393	0	%100
163	M132	X	.485	.485	0	%100
164	M132	Z	.28	.28	0	%100
165	M134	X	.111	.111	0	%100
166	M134	Z	.064	.064	0	%100
167	M136	X	.142	.142	0	%100
168	M136	Z	.082	.082	0	%100
169	OVP3	X	.471	.471	0	%100
170	OVP3	Z	.272	.272	0	%100
171	OVP1	X	.471	.471	0	%100
172	OVP1	Z	.272	.272	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	LV	X	.224	.224	0	%100
2	LV	Z	.388	.388	0	%100
3	M2	X	.224	.224	0	%100
4	M2	Z	.388	.388	0	%100
5	M13	X	.02	.02	0	%100
6	M13	Z	.034	.034	0	%100
7	M14	X	.02	.02	0	%100
8	M14	Z	.034	.034	0	%100
9	M15	X	.02	.02	0	%100
10	M15	Z	.034	.034	0	%100
11	M16	X	.02	.02	0	%100
12	M16	Z	.034	.034	0	%100
13	M17	X	.194	.194	0	%100
14	M17	Z	.336	.336	0	%100
15	M18	X	.194	.194	0	%100
16	M18	Z	.336	.336	0	%100
17	M19	X	.028	.028	0	%100
18	M19	Z	.048	.048	0	%100
19	M20	X	.028	.028	0	%100
20	M20	Z	.048	.048	0	%100
21	M21	X	.059	.059	0	%100
22	M21	Z	.102	.102	0	%100
23	M22	X	.059	.059	0	%100
24	M22	Z	.102	.102	0	%100



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**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,%]
25	M23	X	.059	.059	0	% 100
26	M23	Z	.102	.102	0	% 100
27	M24	X	.059	.059	0	% 100
28	M24	Z	.102	.102	0	% 100
29	M25	X	.078	.078	0	% 100
30	M25	Z	.135	.135	0	% 100
31	M26	X	.078	.078	0	% 100
32	M26	Z	.135	.135	0	% 100
33	M27	X	.045	.045	0	% 100
34	M27	Z	.077	.077	0	% 100
35	M28	X	.045	.045	0	% 100
36	M28	Z	.077	.077	0	% 100
37	MP4A	X	.298	.298	0	% 100
38	MP4A	Z	.517	.517	0	% 100
39	MP3A	X	.298	.298	0	% 100
40	MP3A	Z	.517	.517	0	% 100
41	MP2A	X	.298	.298	0	% 100
42	MP2A	Z	.517	.517	0	% 100
43	MP1A	X	.298	.298	0	% 100
44	MP1A	Z	.517	.517	0	% 100
45	M44	X	.079	.079	0	% 100
46	M44	Z	.136	.136	0	% 100
47	M45	X	.079	.079	0	% 100
48	M45	Z	.136	.136	0	% 100
49	M46	X	.079	.079	0	% 100
50	M46	Z	.136	.136	0	% 100
51	M47	X	.079	.079	0	% 100
52	M47	Z	.136	.136	0	% 100
53	M43	X	.393	.393	0	% 100
54	M43	Z	.681	.681	0	% 100
55	M46A	X	0	0	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	0	0	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	.079	.079	0	% 100
60	M56	Z	.136	.136	0	% 100
61	M57	X	.079	.079	0	% 100
62	M57	Z	.136	.136	0	% 100
63	M58	X	.079	.079	0	% 100
64	M58	Z	.136	.136	0	% 100
65	M59	X	.079	.079	0	% 100
66	M59	Z	.136	.136	0	% 100
67	M60	X	.075	.075	0	% 100
68	M60	Z	.13	.13	0	% 100
69	M61	X	.075	.075	0	% 100
70	M61	Z	.13	.13	0	% 100
71	M62	X	.075	.075	0	% 100
72	M62	Z	.13	.13	0	% 100
73	OVP2	X	.075	.075	0	% 100
74	OVP2	Z	.13	.13	0	% 100
75	M64	X	0	0	0	% 100
76	M64	Z	0	0	0	% 100



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**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,%]
77	M65	X	0	0	0	%100
78	M65	Z	0	0	0	%100
79	M66	X	0	0	0	%100
80	M66	Z	0	0	0	%100
81	M67	X	0	0	0	%100
82	M67	Z	0	0	0	%100
83	M68	X	.054	.054	0	%100
84	M68	Z	.094	.094	0	%100
85	M69	X	.054	.054	0	%100
86	M69	Z	.094	.094	0	%100
87	M70	X	.054	.054	0	%100
88	M70	Z	.094	.094	0	%100
89	M71	X	.054	.054	0	%100
90	M71	Z	.094	.094	0	%100
91	MP4C	X	.298	.298	0	%100
92	MP4C	Z	.517	.517	0	%100
93	MP3C	X	.298	.298	0	%100
94	MP3C	Z	.517	.517	0	%100
95	MP2C	X	.298	.298	0	%100
96	MP2C	Z	.517	.517	0	%100
97	MP1C	X	.298	.298	0	%100
98	MP1C	Z	.517	.517	0	%100
99	M76	X	.079	.079	0	%100
100	M76	Z	.136	.136	0	%100
101	M77	X	.079	.079	0	%100
102	M77	Z	.136	.136	0	%100
103	M78	X	.079	.079	0	%100
104	M78	Z	.136	.136	0	%100
105	M79	X	.079	.079	0	%100
106	M79	Z	.136	.136	0	%100
107	M86	X	.393	.393	0	%100
108	M86	Z	.681	.681	0	%100
109	M89	X	.224	.224	0	%100
110	M89	Z	.388	.388	0	%100
111	M90	X	.224	.224	0	%100
112	M90	Z	.388	.388	0	%100
113	M99	X	.02	.02	0	%100
114	M99	Z	.034	.034	0	%100
115	M100	X	.02	.02	0	%100
116	M100	Z	.034	.034	0	%100
117	M101	X	.02	.02	0	%100
118	M101	Z	.034	.034	0	%100
119	M102	X	.02	.02	0	%100
120	M102	Z	.034	.034	0	%100
121	M103	X	.028	.028	0	%100
122	M103	Z	.048	.048	0	%100
123	M104	X	.028	.028	0	%100
124	M104	Z	.048	.048	0	%100
125	M105	X	.194	.194	0	%100
126	M105	Z	.336	.336	0	%100
127	OVP	X	.194	.194	0	%100
128	OVP	Z	.336	.336	0	%100



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**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, %]
129	M107	X	.059	.059	0	% 100
130	M107	Z	.102	.102	0	% 100
131	M108	X	.059	.059	0	% 100
132	M108	Z	.102	.102	0	% 100
133	M109	X	.059	.059	0	% 100
134	M109	Z	.102	.102	0	% 100
135	M110	X	.059	.059	0	% 100
136	M110	Z	.102	.102	0	% 100
137	M111	X	.045	.045	0	% 100
138	M111	Z	.077	.077	0	% 100
139	M112	X	.045	.045	0	% 100
140	M112	Z	.077	.077	0	% 100
141	M113	X	.078	.078	0	% 100
142	M113	Z	.135	.135	0	% 100
143	M114	X	.078	.078	0	% 100
144	M114	Z	.135	.135	0	% 100
145	MP4B	X	.298	.298	0	% 100
146	MP4B	Z	.517	.517	0	% 100
147	MP3B	X	.298	.298	0	% 100
148	MP3B	Z	.517	.517	0	% 100
149	MP2B	X	.298	.298	0	% 100
150	MP2B	Z	.517	.517	0	% 100
151	MP1B	X	.298	.298	0	% 100
152	MP1B	Z	.517	.517	0	% 100
153	M119	X	.079	.079	0	% 100
154	M119	Z	.136	.136	0	% 100
155	M120	X	.079	.079	0	% 100
156	M120	Z	.136	.136	0	% 100
157	M121	X	.079	.079	0	% 100
158	M121	Z	.136	.136	0	% 100
159	M122	X	.079	.079	0	% 100
160	M122	Z	.136	.136	0	% 100
161	M129	X	.393	.393	0	% 100
162	M129	Z	.681	.681	0	% 100
163	M132	X	.22	.22	0	% 100
164	M132	Z	.381	.381	0	% 100
165	M134	X	.202	.202	0	% 100
166	M134	Z	.35	.35	0	% 100
167	M136	X	.004	.004	0	% 100
168	M136	Z	.007	.007	0	% 100
169	OVP3	X	.272	.272	0	% 100
170	OVP3	Z	.471	.471	0	% 100
171	OVP1	X	.272	.272	0	% 100
172	OVP1	Z	.471	.471	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	LV	X	0	0	0	% 100
2	LV	Z	.597	.597	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	.597	.597	0	% 100



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**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,%]
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.245	.245	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.245	.245	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.245	.245	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	.245	.245	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.157	.157	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.157	.157	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.157	.157	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.157	.157	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.127	.127	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.127	.127	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.127	.127	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.127	.127	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.597	.597	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.597	.597	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.597	.597	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.597	.597	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.157	.157	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.157	.157	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.157	.157	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.157	.157	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	.786	.786	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	.149	.149	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,%]
57	M47A	X	0	0	0	%100
58	M47A	Z	.149	.149	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	.118	.118	0	%100
61	M57	X	0	0	0	%100
62	M57	Z	.118	.118	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	.118	.118	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	.118	.118	0	%100
67	M60	X	0	0	0	%100
68	M60	Z	.341	.341	0	%100
69	M61	X	0	0	0	%100
70	M61	Z	.341	.341	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	.008	.008	0	%100
73	OVP2	X	0	0	0	%100
74	OVP2	Z	.008	.008	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	.039	.039	0	%100
77	M65	X	0	0	0	%100
78	M65	Z	.039	.039	0	%100
79	M66	X	0	0	0	%100
80	M66	Z	.039	.039	0	%100
81	M67	X	0	0	0	%100
82	M67	Z	.039	.039	0	%100
83	M68	X	0	0	0	%100
84	M68	Z	.146	.146	0	%100
85	M69	X	0	0	0	%100
86	M69	Z	.146	.146	0	%100
87	M70	X	0	0	0	%100
88	M70	Z	.08	.08	0	%100
89	M71	X	0	0	0	%100
90	M71	Z	.08	.08	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	.597	.597	0	%100
93	MP3C	X	0	0	0	%100
94	MP3C	Z	.597	.597	0	%100
95	MP2C	X	0	0	0	%100
96	MP2C	Z	.597	.597	0	%100
97	MP1C	X	0	0	0	%100
98	MP1C	Z	.597	.597	0	%100
99	M76	X	0	0	0	%100
100	M76	Z	.157	.157	0	%100
101	M77	X	0	0	0	%100
102	M77	Z	.157	.157	0	%100
103	M78	X	0	0	0	%100
104	M78	Z	.157	.157	0	%100
105	M79	X	0	0	0	%100
106	M79	Z	.157	.157	0	%100
107	M86	X	0	0	0	%100
108	M86	Z	.786	.786	0	%100



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**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, %]
109	M89	X	0	0	0	%100
110	M89	Z	.149	.149	0	%100
111	M90	X	0	0	0	%100
112	M90	Z	.149	.149	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	.118	.118	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	.118	.118	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	.118	.118	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	.118	.118	0	%100
121	M103	X	0	0	0	%100
122	M103	Z	.008	.008	0	%100
123	M104	X	0	0	0	%100
124	M104	Z	.008	.008	0	%100
125	M105	X	0	0	0	%100
126	M105	Z	.341	.341	0	%100
127	OVP	X	0	0	0	%100
128	OVP	Z	.341	.341	0	%100
129	M107	X	0	0	0	%100
130	M107	Z	.039	.039	0	%100
131	M108	X	0	0	0	%100
132	M108	Z	.039	.039	0	%100
133	M109	X	0	0	0	%100
134	M109	Z	.039	.039	0	%100
135	M110	X	0	0	0	%100
136	M110	Z	.039	.039	0	%100
137	M111	X	0	0	0	%100
138	M111	Z	.08	.08	0	%100
139	M112	X	0	0	0	%100
140	M112	Z	.08	.08	0	%100
141	M113	X	0	0	0	%100
142	M113	Z	.146	.146	0	%100
143	M114	X	0	0	0	%100
144	M114	Z	.146	.146	0	%100
145	MP4B	X	0	0	0	%100
146	MP4B	Z	.597	.597	0	%100
147	MP3B	X	0	0	0	%100
148	MP3B	Z	.597	.597	0	%100
149	MP2B	X	0	0	0	%100
150	MP2B	Z	.597	.597	0	%100
151	MP1B	X	0	0	0	%100
152	MP1B	Z	.597	.597	0	%100
153	M119	X	0	0	0	%100
154	M119	Z	.157	.157	0	%100
155	M120	X	0	0	0	%100
156	M120	Z	.157	.157	0	%100
157	M121	X	0	0	0	%100
158	M121	Z	.157	.157	0	%100
159	M122	X	0	0	0	%100
160	M122	Z	.157	.157	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, %]
161	M129	X	0	0	0	% 100
162	M129	Z	.786	.786	0	% 100
163	M132	X	0	0	0	% 100
164	M132	Z	.164	.164	0	% 100
165	M134	X	0	0	0	% 100
166	M134	Z	.56	.56	0	% 100
167	M136	X	0	0	0	% 100
168	M136	Z	.128	.128	0	% 100
169	OVP3	X	0	0	0	% 100
170	OVP3	Z	.544	.544	0	% 100
171	OVP1	X	0	0	0	% 100
172	OVP1	Z	.544	.544	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	LV	X	-.224	-.224	0	% 100
2	LV	Z	.388	.388	0	% 100
3	M2	X	-.224	-.224	0	% 100
4	M2	Z	.388	.388	0	% 100
5	M13	X	-.02	-.02	0	% 100
6	M13	Z	.034	.034	0	% 100
7	M14	X	-.02	-.02	0	% 100
8	M14	Z	.034	.034	0	% 100
9	M15	X	-.02	-.02	0	% 100
10	M15	Z	.034	.034	0	% 100
11	M16	X	-.02	-.02	0	% 100
12	M16	Z	.034	.034	0	% 100
13	M17	X	-.028	-.028	0	% 100
14	M17	Z	.048	.048	0	% 100
15	M18	X	-.028	-.028	0	% 100
16	M18	Z	.048	.048	0	% 100
17	M19	X	-.194	-.194	0	% 100
18	M19	Z	.336	.336	0	% 100
19	M20	X	-.194	-.194	0	% 100
20	M20	Z	.336	.336	0	% 100
21	M21	X	-.059	-.059	0	% 100
22	M21	Z	.102	.102	0	% 100
23	M22	X	-.059	-.059	0	% 100
24	M22	Z	.102	.102	0	% 100
25	M23	X	-.059	-.059	0	% 100
26	M23	Z	.102	.102	0	% 100
27	M24	X	-.059	-.059	0	% 100
28	M24	Z	.102	.102	0	% 100
29	M25	X	-.045	-.045	0	% 100
30	M25	Z	.077	.077	0	% 100
31	M26	X	-.045	-.045	0	% 100
32	M26	Z	.077	.077	0	% 100
33	M27	X	-.078	-.078	0	% 100
34	M27	Z	.135	.135	0	% 100
35	M28	X	-.078	-.078	0	% 100
36	M28	Z	.135	.135	0	% 100



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**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, %]
37	MP4A	X	-.298	-.298	0	%100
38	MP4A	Z	.517	.517	0	%100
39	MP3A	X	-.298	-.298	0	%100
40	MP3A	Z	.517	.517	0	%100
41	MP2A	X	-.298	-.298	0	%100
42	MP2A	Z	.517	.517	0	%100
43	MP1A	X	-.298	-.298	0	%100
44	MP1A	Z	.517	.517	0	%100
45	M44	X	-.079	-.079	0	%100
46	M44	Z	.136	.136	0	%100
47	M45	X	-.079	-.079	0	%100
48	M45	Z	.136	.136	0	%100
49	M46	X	-.079	-.079	0	%100
50	M46	Z	.136	.136	0	%100
51	M47	X	-.079	-.079	0	%100
52	M47	Z	.136	.136	0	%100
53	M43	X	-.393	-.393	0	%100
54	M43	Z	.681	.681	0	%100
55	M46A	X	-.224	-.224	0	%100
56	M46A	Z	.388	.388	0	%100
57	M47A	X	-.224	-.224	0	%100
58	M47A	Z	.388	.388	0	%100
59	M56	X	-.02	-.02	0	%100
60	M56	Z	.034	.034	0	%100
61	M57	X	-.02	-.02	0	%100
62	M57	Z	.034	.034	0	%100
63	M58	X	-.02	-.02	0	%100
64	M58	Z	.034	.034	0	%100
65	M59	X	-.02	-.02	0	%100
66	M59	Z	.034	.034	0	%100
67	M60	X	-.194	-.194	0	%100
68	M60	Z	.336	.336	0	%100
69	M61	X	-.194	-.194	0	%100
70	M61	Z	.336	.336	0	%100
71	M62	X	-.028	-.028	0	%100
72	M62	Z	.048	.048	0	%100
73	OVP2	X	-.028	-.028	0	%100
74	OVP2	Z	.048	.048	0	%100
75	M64	X	-.059	-.059	0	%100
76	M64	Z	.102	.102	0	%100
77	M65	X	-.059	-.059	0	%100
78	M65	Z	.102	.102	0	%100
79	M66	X	-.059	-.059	0	%100
80	M66	Z	.102	.102	0	%100
81	M67	X	-.059	-.059	0	%100
82	M67	Z	.102	.102	0	%100
83	M68	X	-.078	-.078	0	%100
84	M68	Z	.135	.135	0	%100
85	M69	X	-.078	-.078	0	%100
86	M69	Z	.135	.135	0	%100
87	M70	X	-.045	-.045	0	%100
88	M70	Z	.077	.077	0	%100



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**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,%]
89	M71	X	-.045	-.045	0	%100
90	M71	Z	.077	.077	0	%100
91	MP4C	X	-.298	-.298	0	%100
92	MP4C	Z	.517	.517	0	%100
93	MP3C	X	-.298	-.298	0	%100
94	MP3C	Z	.517	.517	0	%100
95	MP2C	X	-.298	-.298	0	%100
96	MP2C	Z	.517	.517	0	%100
97	MP1C	X	-.298	-.298	0	%100
98	MP1C	Z	.517	.517	0	%100
99	M76	X	-.079	-.079	0	%100
100	M76	Z	.136	.136	0	%100
101	M77	X	-.079	-.079	0	%100
102	M77	Z	.136	.136	0	%100
103	M78	X	-.079	-.079	0	%100
104	M78	Z	.136	.136	0	%100
105	M79	X	-.079	-.079	0	%100
106	M79	Z	.136	.136	0	%100
107	M86	X	-.393	-.393	0	%100
108	M86	Z	.681	.681	0	%100
109	M89	X	0	0	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	0	0	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	-.079	-.079	0	%100
114	M99	Z	.136	.136	0	%100
115	M100	X	-.079	-.079	0	%100
116	M100	Z	.136	.136	0	%100
117	M101	X	-.079	-.079	0	%100
118	M101	Z	.136	.136	0	%100
119	M102	X	-.079	-.079	0	%100
120	M102	Z	.136	.136	0	%100
121	M103	X	-.075	-.075	0	%100
122	M103	Z	.13	.13	0	%100
123	M104	X	-.075	-.075	0	%100
124	M104	Z	.13	.13	0	%100
125	M105	X	-.075	-.075	0	%100
126	M105	Z	.13	.13	0	%100
127	OVP	X	-.075	-.075	0	%100
128	OVP	Z	.13	.13	0	%100
129	M107	X	0	0	0	%100
130	M107	Z	0	0	0	%100
131	M108	X	0	0	0	%100
132	M108	Z	0	0	0	%100
133	M109	X	0	0	0	%100
134	M109	Z	0	0	0	%100
135	M110	X	0	0	0	%100
136	M110	Z	0	0	0	%100
137	M111	X	-.054	-.054	0	%100
138	M111	Z	.094	.094	0	%100
139	M112	X	-.054	-.054	0	%100
140	M112	Z	.094	.094	0	%100



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**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, %]
141	M113	X	-.054	-.054	0	%100
142	M113	Z	.094	.094	0	%100
143	M114	X	-.054	-.054	0	%100
144	M114	Z	.094	.094	0	%100
145	MP4B	X	-.298	-.298	0	%100
146	MP4B	Z	.517	.517	0	%100
147	MP3B	X	-.298	-.298	0	%100
148	MP3B	Z	.517	.517	0	%100
149	MP2B	X	-.298	-.298	0	%100
150	MP2B	Z	.517	.517	0	%100
151	MP1B	X	-.298	-.298	0	%100
152	MP1B	Z	.517	.517	0	%100
153	M119	X	-.079	-.079	0	%100
154	M119	Z	.136	.136	0	%100
155	M120	X	-.079	-.079	0	%100
156	M120	Z	.136	.136	0	%100
157	M121	X	-.079	-.079	0	%100
158	M121	Z	.136	.136	0	%100
159	M122	X	-.079	-.079	0	%100
160	M122	Z	.136	.136	0	%100
161	M129	X	-.393	-.393	0	%100
162	M129	Z	.681	.681	0	%100
163	M132	X	-.004	-.004	0	%100
164	M132	Z	.007	.007	0	%100
165	M134	X	-.22	-.22	0	%100
166	M134	Z	.381	.381	0	%100
167	M136	X	-.202	-.202	0	%100
168	M136	Z	.35	.35	0	%100
169	OVP3	X	-.272	-.272	0	%100
170	OVP3	Z	.471	.471	0	%100
171	OVP1	X	-.272	-.272	0	%100
172	OVP1	Z	.471	.471	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	LV	X	-.129	-.129	0	%100
2	LV	Z	.075	.075	0	%100
3	M2	X	-.129	-.129	0	%100
4	M2	Z	.075	.075	0	%100
5	M13	X	-.102	-.102	0	%100
6	M13	Z	.059	.059	0	%100
7	M14	X	-.102	-.102	0	%100
8	M14	Z	.059	.059	0	%100
9	M15	X	-.102	-.102	0	%100
10	M15	Z	.059	.059	0	%100
11	M16	X	-.102	-.102	0	%100
12	M16	Z	.059	.059	0	%100
13	M17	X	-.007	-.007	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100



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**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, %]
17	M19	X	-.295	-.295	0	%100
18	M19	Z	.17	.17	0	%100
19	M20	X	-.295	-.295	0	%100
20	M20	Z	.17	.17	0	%100
21	M21	X	-.034	-.034	0	%100
22	M21	Z	.02	.02	0	%100
23	M22	X	-.034	-.034	0	%100
24	M22	Z	.02	.02	0	%100
25	M23	X	-.034	-.034	0	%100
26	M23	Z	.02	.02	0	%100
27	M24	X	-.034	-.034	0	%100
28	M24	Z	.02	.02	0	%100
29	M25	X	-.069	-.069	0	%100
30	M25	Z	.04	.04	0	%100
31	M26	X	-.069	-.069	0	%100
32	M26	Z	.04	.04	0	%100
33	M27	X	-.126	-.126	0	%100
34	M27	Z	.073	.073	0	%100
35	M28	X	-.126	-.126	0	%100
36	M28	Z	.073	.073	0	%100
37	MP4A	X	-.517	-.517	0	%100
38	MP4A	Z	.298	.298	0	%100
39	MP3A	X	-.517	-.517	0	%100
40	MP3A	Z	.298	.298	0	%100
41	MP2A	X	-.517	-.517	0	%100
42	MP2A	Z	.298	.298	0	%100
43	MP1A	X	-.517	-.517	0	%100
44	MP1A	Z	.298	.298	0	%100
45	M44	X	-.136	-.136	0	%100
46	M44	Z	.079	.079	0	%100
47	M45	X	-.136	-.136	0	%100
48	M45	Z	.079	.079	0	%100
49	M46	X	-.136	-.136	0	%100
50	M46	Z	.079	.079	0	%100
51	M47	X	-.136	-.136	0	%100
52	M47	Z	.079	.079	0	%100
53	M43	X	-.681	-.681	0	%100
54	M43	Z	.393	.393	0	%100
55	M46A	X	-.517	-.517	0	%100
56	M46A	Z	.298	.298	0	%100
57	M47A	X	-.517	-.517	0	%100
58	M47A	Z	.298	.298	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M57	X	0	0	0	%100
62	M57	Z	0	0	0	%100
63	M58	X	0	0	0	%100
64	M58	Z	0	0	0	%100
65	M59	X	0	0	0	%100
66	M59	Z	0	0	0	%100
67	M60	X	-.213	-.213	0	%100
68	M60	Z	.123	.123	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, %]
69	M61	X	-.213	-.213	0	%100
70	M61	Z	.123	.123	0	%100
71	M62	X	-.213	-.213	0	%100
72	M62	Z	.123	.123	0	%100
73	OVP2	X	-.213	-.213	0	%100
74	OVP2	Z	.123	.123	0	%100
75	M64	X	-.136	-.136	0	%100
76	M64	Z	.079	.079	0	%100
77	M65	X	-.136	-.136	0	%100
78	M65	Z	.079	.079	0	%100
79	M66	X	-.136	-.136	0	%100
80	M66	Z	.079	.079	0	%100
81	M67	X	-.136	-.136	0	%100
82	M67	Z	.079	.079	0	%100
83	M68	X	-.11	-.11	0	%100
84	M68	Z	.064	.064	0	%100
85	M69	X	-.11	-.11	0	%100
86	M69	Z	.064	.064	0	%100
87	M70	X	-.11	-.11	0	%100
88	M70	Z	.064	.064	0	%100
89	M71	X	-.11	-.11	0	%100
90	M71	Z	.064	.064	0	%100
91	MP4C	X	-.517	-.517	0	%100
92	MP4C	Z	.298	.298	0	%100
93	MP3C	X	-.517	-.517	0	%100
94	MP3C	Z	.298	.298	0	%100
95	MP2C	X	-.517	-.517	0	%100
96	MP2C	Z	.298	.298	0	%100
97	MP1C	X	-.517	-.517	0	%100
98	MP1C	Z	.298	.298	0	%100
99	M76	X	-.136	-.136	0	%100
100	M76	Z	.079	.079	0	%100
101	M77	X	-.136	-.136	0	%100
102	M77	Z	.079	.079	0	%100
103	M78	X	-.136	-.136	0	%100
104	M78	Z	.079	.079	0	%100
105	M79	X	-.136	-.136	0	%100
106	M79	Z	.079	.079	0	%100
107	M86	X	-.681	-.681	0	%100
108	M86	Z	.393	.393	0	%100
109	M89	X	-.129	-.129	0	%100
110	M89	Z	.075	.075	0	%100
111	M90	X	-.129	-.129	0	%100
112	M90	Z	.075	.075	0	%100
113	M99	X	-.102	-.102	0	%100
114	M99	Z	.059	.059	0	%100
115	M100	X	-.102	-.102	0	%100
116	M100	Z	.059	.059	0	%100
117	M101	X	-.102	-.102	0	%100
118	M101	Z	.059	.059	0	%100
119	M102	X	-.102	-.102	0	%100
120	M102	Z	.059	.059	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,%]
121	M103	X	-.295	-.295	0	%100
122	M103	Z	.17	.17	0	%100
123	M104	X	-.295	-.295	0	%100
124	M104	Z	.17	.17	0	%100
125	M105	X	-.007	-.007	0	%100
126	M105	Z	.004	.004	0	%100
127	OVP	X	-.007	-.007	0	%100
128	OVP	Z	.004	.004	0	%100
129	M107	X	-.034	-.034	0	%100
130	M107	Z	.02	.02	0	%100
131	M108	X	-.034	-.034	0	%100
132	M108	Z	.02	.02	0	%100
133	M109	X	-.034	-.034	0	%100
134	M109	Z	.02	.02	0	%100
135	M110	X	-.034	-.034	0	%100
136	M110	Z	.02	.02	0	%100
137	M111	X	-.126	-.126	0	%100
138	M111	Z	.073	.073	0	%100
139	M112	X	-.126	-.126	0	%100
140	M112	Z	.073	.073	0	%100
141	M113	X	-.069	-.069	0	%100
142	M113	Z	.04	.04	0	%100
143	M114	X	-.069	-.069	0	%100
144	M114	Z	.04	.04	0	%100
145	MP4B	X	-.517	-.517	0	%100
146	MP4B	Z	.298	.298	0	%100
147	MP3B	X	-.517	-.517	0	%100
148	MP3B	Z	.298	.298	0	%100
149	MP2B	X	-.517	-.517	0	%100
150	MP2B	Z	.298	.298	0	%100
151	MP1B	X	-.517	-.517	0	%100
152	MP1B	Z	.298	.298	0	%100
153	M119	X	-.136	-.136	0	%100
154	M119	Z	.079	.079	0	%100
155	M120	X	-.136	-.136	0	%100
156	M120	Z	.079	.079	0	%100
157	M121	X	-.136	-.136	0	%100
158	M121	Z	.079	.079	0	%100
159	M122	X	-.136	-.136	0	%100
160	M122	Z	.079	.079	0	%100
161	M129	X	-.681	-.681	0	%100
162	M129	Z	.393	.393	0	%100
163	M132	X	-.111	-.111	0	%100
164	M132	Z	.064	.064	0	%100
165	M134	X	-.142	-.142	0	%100
166	M134	Z	.082	.082	0	%100
167	M136	X	-.485	-.485	0	%100
168	M136	Z	.28	.28	0	%100
169	OVP3	X	-.471	-.471	0	%100
170	OVP3	Z	.272	.272	0	%100
171	OVP1	X	-.471	-.471	0	%100
172	OVP1	Z	.272	.272	0	%100



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

	Member Label	Direction	Start Magniude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	LV	X	0	0	0	%100
2	LV	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.157	-.157	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.157	-.157	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.157	-.157	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.157	-.157	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.151	-.151	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.151	-.151	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.151	-.151	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.151	-.151	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.108	-.108	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.108	-.108	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.108	-.108	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.108	-.108	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.597	-.597	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.597	-.597	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-.597	-.597	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.597	-.597	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.157	-.157	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.157	-.157	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.157	-.157	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-.157	-.157	0	%100
52	M47	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, %]
53	M43	X	-.786	-.786	0	% 100
54	M43	Z	0	0	0	% 100
55	M46A	X	-.448	-.448	0	% 100
56	M46A	Z	0	0	0	% 100
57	M47A	X	-.448	-.448	0	% 100
58	M47A	Z	0	0	0	% 100
59	M56	X	-.039	-.039	0	% 100
60	M56	Z	0	0	0	% 100
61	M57	X	-.039	-.039	0	% 100
62	M57	Z	0	0	0	% 100
63	M58	X	-.039	-.039	0	% 100
64	M58	Z	0	0	0	% 100
65	M59	X	-.039	-.039	0	% 100
66	M59	Z	0	0	0	% 100
67	M60	X	-.055	-.055	0	% 100
68	M60	Z	0	0	0	% 100
69	M61	X	-.055	-.055	0	% 100
70	M61	Z	0	0	0	% 100
71	M62	X	-.388	-.388	0	% 100
72	M62	Z	0	0	0	% 100
73	OVP2	X	-.388	-.388	0	% 100
74	OVP2	Z	0	0	0	% 100
75	M64	X	-.118	-.118	0	% 100
76	M64	Z	0	0	0	% 100
77	M65	X	-.118	-.118	0	% 100
78	M65	Z	0	0	0	% 100
79	M66	X	-.118	-.118	0	% 100
80	M66	Z	0	0	0	% 100
81	M67	X	-.118	-.118	0	% 100
82	M67	Z	0	0	0	% 100
83	M68	X	-.089	-.089	0	% 100
84	M68	Z	0	0	0	% 100
85	M69	X	-.089	-.089	0	% 100
86	M69	Z	0	0	0	% 100
87	M70	X	-.155	-.155	0	% 100
88	M70	Z	0	0	0	% 100
89	M71	X	-.155	-.155	0	% 100
90	M71	Z	0	0	0	% 100
91	MP4C	X	-.597	-.597	0	% 100
92	MP4C	Z	0	0	0	% 100
93	MP3C	X	-.597	-.597	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP2C	X	-.597	-.597	0	% 100
96	MP2C	Z	0	0	0	% 100
97	MP1C	X	-.597	-.597	0	% 100
98	MP1C	Z	0	0	0	% 100
99	M76	X	-.157	-.157	0	% 100
100	M76	Z	0	0	0	% 100
101	M77	X	-.157	-.157	0	% 100
102	M77	Z	0	0	0	% 100
103	M78	X	-.157	-.157	0	% 100
104	M78	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magniude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
105	M79	X	-.157	-.157	0	%100
106	M79	Z	0	0	0	%100
107	M86	X	-.786	-.786	0	%100
108	M86	Z	0	0	0	%100
109	M89	X	-.448	-.448	0	%100
110	M89	Z	0	0	0	%100
111	M90	X	-.448	-.448	0	%100
112	M90	Z	0	0	0	%100
113	M99	X	-.039	-.039	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	-.039	-.039	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	-.039	-.039	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	-.039	-.039	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	-.388	-.388	0	%100
122	M103	Z	0	0	0	%100
123	M104	X	-.388	-.388	0	%100
124	M104	Z	0	0	0	%100
125	M105	X	-.055	-.055	0	%100
126	M105	Z	0	0	0	%100
127	OVP	X	-.055	-.055	0	%100
128	OVP	Z	0	0	0	%100
129	M107	X	-.118	-.118	0	%100
130	M107	Z	0	0	0	%100
131	M108	X	-.118	-.118	0	%100
132	M108	Z	0	0	0	%100
133	M109	X	-.118	-.118	0	%100
134	M109	Z	0	0	0	%100
135	M110	X	-.118	-.118	0	%100
136	M110	Z	0	0	0	%100
137	M111	X	-.155	-.155	0	%100
138	M111	Z	0	0	0	%100
139	M112	X	-.155	-.155	0	%100
140	M112	Z	0	0	0	%100
141	M113	X	-.089	-.089	0	%100
142	M113	Z	0	0	0	%100
143	M114	X	-.089	-.089	0	%100
144	M114	Z	0	0	0	%100
145	MP4B	X	-.597	-.597	0	%100
146	MP4B	Z	0	0	0	%100
147	MP3B	X	-.597	-.597	0	%100
148	MP3B	Z	0	0	0	%100
149	MP2B	X	-.597	-.597	0	%100
150	MP2B	Z	0	0	0	%100
151	MP1B	X	-.597	-.597	0	%100
152	MP1B	Z	0	0	0	%100
153	M119	X	-.157	-.157	0	%100
154	M119	Z	0	0	0	%100
155	M120	X	-.157	-.157	0	%100
156	M120	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, %]
157	M121	X	-.157	-.157	0	%100
158	M121	Z	0	0	0	%100
159	M122	X	-.157	-.157	0	%100
160	M122	Z	0	0	0	%100
161	M129	X	-.786	-.786	0	%100
162	M129	Z	0	0	0	%100
163	M132	X	-.405	-.405	0	%100
164	M132	Z	0	0	0	%100
165	M134	X	-.008	-.008	0	%100
166	M134	Z	0	0	0	%100
167	M136	X	-.44	-.44	0	%100
168	M136	Z	0	0	0	%100
169	OVP3	X	-.544	-.544	0	%100
170	OVP3	Z	0	0	0	%100
171	OVP1	X	-.544	-.544	0	%100
172	OVP1	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	LV	X	-.129	-.129	0	%100
2	LV	Z	-.075	-.075	0	%100
3	M2	X	-.129	-.129	0	%100
4	M2	Z	-.075	-.075	0	%100
5	M13	X	-.102	-.102	0	%100
6	M13	Z	-.059	-.059	0	%100
7	M14	X	-.102	-.102	0	%100
8	M14	Z	-.059	-.059	0	%100
9	M15	X	-.102	-.102	0	%100
10	M15	Z	-.059	-.059	0	%100
11	M16	X	-.102	-.102	0	%100
12	M16	Z	-.059	-.059	0	%100
13	M17	X	-.295	-.295	0	%100
14	M17	Z	-.17	-.17	0	%100
15	M18	X	-.295	-.295	0	%100
16	M18	Z	-.17	-.17	0	%100
17	M19	X	-.007	-.007	0	%100
18	M19	Z	-.004	-.004	0	%100
19	M20	X	-.007	-.007	0	%100
20	M20	Z	-.004	-.004	0	%100
21	M21	X	-.034	-.034	0	%100
22	M21	Z	-.02	-.02	0	%100
23	M22	X	-.034	-.034	0	%100
24	M22	Z	-.02	-.02	0	%100
25	M23	X	-.034	-.034	0	%100
26	M23	Z	-.02	-.02	0	%100
27	M24	X	-.034	-.034	0	%100
28	M24	Z	-.02	-.02	0	%100
29	M25	X	-.126	-.126	0	%100
30	M25	Z	-.073	-.073	0	%100
31	M26	X	-.126	-.126	0	%100
32	M26	Z	-.073	-.073	0	%100



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**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, %]
33	M27	X	-.069	-.069	0	%100
34	M27	Z	-.04	-.04	0	%100
35	M28	X	-.069	-.069	0	%100
36	M28	Z	-.04	-.04	0	%100
37	MP4A	X	-.517	-.517	0	%100
38	MP4A	Z	-.298	-.298	0	%100
39	MP3A	X	-.517	-.517	0	%100
40	MP3A	Z	-.298	-.298	0	%100
41	MP2A	X	-.517	-.517	0	%100
42	MP2A	Z	-.298	-.298	0	%100
43	MP1A	X	-.517	-.517	0	%100
44	MP1A	Z	-.298	-.298	0	%100
45	M44	X	-.136	-.136	0	%100
46	M44	Z	-.079	-.079	0	%100
47	M45	X	-.136	-.136	0	%100
48	M45	Z	-.079	-.079	0	%100
49	M46	X	-.136	-.136	0	%100
50	M46	Z	-.079	-.079	0	%100
51	M47	X	-.136	-.136	0	%100
52	M47	Z	-.079	-.079	0	%100
53	M43	X	-.681	-.681	0	%100
54	M43	Z	-.393	-.393	0	%100
55	M46A	X	-.129	-.129	0	%100
56	M46A	Z	-.075	-.075	0	%100
57	M47A	X	-.129	-.129	0	%100
58	M47A	Z	-.075	-.075	0	%100
59	M56	X	-.102	-.102	0	%100
60	M56	Z	-.059	-.059	0	%100
61	M57	X	-.102	-.102	0	%100
62	M57	Z	-.059	-.059	0	%100
63	M58	X	-.102	-.102	0	%100
64	M58	Z	-.059	-.059	0	%100
65	M59	X	-.102	-.102	0	%100
66	M59	Z	-.059	-.059	0	%100
67	M60	X	-.007	-.007	0	%100
68	M60	Z	-.004	-.004	0	%100
69	M61	X	-.007	-.007	0	%100
70	M61	Z	-.004	-.004	0	%100
71	M62	X	-.295	-.295	0	%100
72	M62	Z	-.17	-.17	0	%100
73	OVP2	X	-.295	-.295	0	%100
74	OVP2	Z	-.17	-.17	0	%100
75	M64	X	-.034	-.034	0	%100
76	M64	Z	-.02	-.02	0	%100
77	M65	X	-.034	-.034	0	%100
78	M65	Z	-.02	-.02	0	%100
79	M66	X	-.034	-.034	0	%100
80	M66	Z	-.02	-.02	0	%100
81	M67	X	-.034	-.034	0	%100
82	M67	Z	-.02	-.02	0	%100
83	M68	X	-.069	-.069	0	%100
84	M68	Z	-.04	-.04	0	%100



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**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,%]
85	M69	X	-.069	-.069	0	%100
86	M69	Z	-.04	-.04	0	%100
87	M70	X	-.126	-.126	0	%100
88	M70	Z	-.073	-.073	0	%100
89	M71	X	-.126	-.126	0	%100
90	M71	Z	-.073	-.073	0	%100
91	MP4C	X	-.517	-.517	0	%100
92	MP4C	Z	-.298	-.298	0	%100
93	MP3C	X	-.517	-.517	0	%100
94	MP3C	Z	-.298	-.298	0	%100
95	MP2C	X	-.517	-.517	0	%100
96	MP2C	Z	-.298	-.298	0	%100
97	MP1C	X	-.517	-.517	0	%100
98	MP1C	Z	-.298	-.298	0	%100
99	M76	X	-.136	-.136	0	%100
100	M76	Z	-.079	-.079	0	%100
101	M77	X	-.136	-.136	0	%100
102	M77	Z	-.079	-.079	0	%100
103	M78	X	-.136	-.136	0	%100
104	M78	Z	-.079	-.079	0	%100
105	M79	X	-.136	-.136	0	%100
106	M79	Z	-.079	-.079	0	%100
107	M86	X	-.681	-.681	0	%100
108	M86	Z	-.393	-.393	0	%100
109	M89	X	-.517	-.517	0	%100
110	M89	Z	-.298	-.298	0	%100
111	M90	X	-.517	-.517	0	%100
112	M90	Z	-.298	-.298	0	%100
113	M99	X	0	0	0	%100
114	M99	Z	0	0	0	%100
115	M100	X	0	0	0	%100
116	M100	Z	0	0	0	%100
117	M101	X	0	0	0	%100
118	M101	Z	0	0	0	%100
119	M102	X	0	0	0	%100
120	M102	Z	0	0	0	%100
121	M103	X	-.213	-.213	0	%100
122	M103	Z	-.123	-.123	0	%100
123	M104	X	-.213	-.213	0	%100
124	M104	Z	-.123	-.123	0	%100
125	M105	X	-.213	-.213	0	%100
126	M105	Z	-.123	-.123	0	%100
127	OVP	X	-.213	-.213	0	%100
128	OVP	Z	-.123	-.123	0	%100
129	M107	X	-.136	-.136	0	%100
130	M107	Z	-.079	-.079	0	%100
131	M108	X	-.136	-.136	0	%100
132	M108	Z	-.079	-.079	0	%100
133	M109	X	-.136	-.136	0	%100
134	M109	Z	-.079	-.079	0	%100
135	M110	X	-.136	-.136	0	%100
136	M110	Z	-.079	-.079	0	%100



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**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,%]
137	M111	X	-.11	-.11	0	%100
138	M111	Z	-.064	-.064	0	%100
139	M112	X	-.11	-.11	0	%100
140	M112	Z	-.064	-.064	0	%100
141	M113	X	-.11	-.11	0	%100
142	M113	Z	-.064	-.064	0	%100
143	M114	X	-.11	-.11	0	%100
144	M114	Z	-.064	-.064	0	%100
145	MP4B	X	-.517	-.517	0	%100
146	MP4B	Z	-.298	-.298	0	%100
147	MP3B	X	-.517	-.517	0	%100
148	MP3B	Z	-.298	-.298	0	%100
149	MP2B	X	-.517	-.517	0	%100
150	MP2B	Z	-.298	-.298	0	%100
151	MP1B	X	-.517	-.517	0	%100
152	MP1B	Z	-.298	-.298	0	%100
153	M119	X	-.136	-.136	0	%100
154	M119	Z	-.079	-.079	0	%100
155	M120	X	-.136	-.136	0	%100
156	M120	Z	-.079	-.079	0	%100
157	M121	X	-.136	-.136	0	%100
158	M121	Z	-.079	-.079	0	%100
159	M122	X	-.136	-.136	0	%100
160	M122	Z	-.079	-.079	0	%100
161	M129	X	-.681	-.681	0	%100
162	M129	Z	-.393	-.393	0	%100
163	M132	X	-.485	-.485	0	%100
164	M132	Z	-.28	-.28	0	%100
165	M134	X	-.111	-.111	0	%100
166	M134	Z	-.064	-.064	0	%100
167	M136	X	-.142	-.142	0	%100
168	M136	Z	-.082	-.082	0	%100
169	OVP3	X	-.471	-.471	0	%100
170	OVP3	Z	-.272	-.272	0	%100
171	OVP1	X	-.471	-.471	0	%100
172	OVP1	Z	-.272	-.272	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	LV	X	-.224	-.224	0	%100
2	LV	Z	-.388	-.388	0	%100
3	M2	X	-.224	-.224	0	%100
4	M2	Z	-.388	-.388	0	%100
5	M13	X	-.02	-.02	0	%100
6	M13	Z	-.034	-.034	0	%100
7	M14	X	-.02	-.02	0	%100
8	M14	Z	-.034	-.034	0	%100
9	M15	X	-.02	-.02	0	%100
10	M15	Z	-.034	-.034	0	%100
11	M16	X	-.02	-.02	0	%100
12	M16	Z	-.034	-.034	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,%]
13	M17	X	-.194	-.194	0	%100
14	M17	Z	-.336	-.336	0	%100
15	M18	X	-.194	-.194	0	%100
16	M18	Z	-.336	-.336	0	%100
17	M19	X	-.028	-.028	0	%100
18	M19	Z	-.048	-.048	0	%100
19	M20	X	-.028	-.028	0	%100
20	M20	Z	-.048	-.048	0	%100
21	M21	X	-.059	-.059	0	%100
22	M21	Z	-.102	-.102	0	%100
23	M22	X	-.059	-.059	0	%100
24	M22	Z	-.102	-.102	0	%100
25	M23	X	-.059	-.059	0	%100
26	M23	Z	-.102	-.102	0	%100
27	M24	X	-.059	-.059	0	%100
28	M24	Z	-.102	-.102	0	%100
29	M25	X	-.078	-.078	0	%100
30	M25	Z	-.135	-.135	0	%100
31	M26	X	-.078	-.078	0	%100
32	M26	Z	-.135	-.135	0	%100
33	M27	X	-.045	-.045	0	%100
34	M27	Z	-.077	-.077	0	%100
35	M28	X	-.045	-.045	0	%100
36	M28	Z	-.077	-.077	0	%100
37	MP4A	X	-.298	-.298	0	%100
38	MP4A	Z	-.517	-.517	0	%100
39	MP3A	X	-.298	-.298	0	%100
40	MP3A	Z	-.517	-.517	0	%100
41	MP2A	X	-.298	-.298	0	%100
42	MP2A	Z	-.517	-.517	0	%100
43	MP1A	X	-.298	-.298	0	%100
44	MP1A	Z	-.517	-.517	0	%100
45	M44	X	-.079	-.079	0	%100
46	M44	Z	-.136	-.136	0	%100
47	M45	X	-.079	-.079	0	%100
48	M45	Z	-.136	-.136	0	%100
49	M46	X	-.079	-.079	0	%100
50	M46	Z	-.136	-.136	0	%100
51	M47	X	-.079	-.079	0	%100
52	M47	Z	-.136	-.136	0	%100
53	M43	X	-.393	-.393	0	%100
54	M43	Z	-.681	-.681	0	%100
55	M46A	X	0	0	0	%100
56	M46A	Z	0	0	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M56	X	-.079	-.079	0	%100
60	M56	Z	-.136	-.136	0	%100
61	M57	X	-.079	-.079	0	%100
62	M57	Z	-.136	-.136	0	%100
63	M58	X	-.079	-.079	0	%100
64	M58	Z	-.136	-.136	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, %)
65	M59	X	-079	-079	0	%100
66	M59	Z	-136	-136	0	%100
67	M60	X	-075	-075	0	%100
68	M60	Z	-13	-13	0	%100
69	M61	X	-075	-075	0	%100
70	M61	Z	-13	-13	0	%100
71	M62	X	-075	-075	0	%100
72	M62	Z	-13	-13	0	%100
73	OVP2	X	-075	-075	0	%100
74	OVP2	Z	-13	-13	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	0	0	0	%100
77	M65	X	0	0	0	%100
78	M65	Z	0	0	0	%100
79	M66	X	0	0	0	%100
80	M66	Z	0	0	0	%100
81	M67	X	0	0	0	%100
82	M67	Z	0	0	0	%100
83	M68	X	-054	-054	0	%100
84	M68	Z	-094	-094	0	%100
85	M69	X	-054	-054	0	%100
86	M69	Z	-094	-094	0	%100
87	M70	X	-054	-054	0	%100
88	M70	Z	-094	-094	0	%100
89	M71	X	-054	-054	0	%100
90	M71	Z	-094	-094	0	%100
91	MP4C	X	-298	-298	0	%100
92	MP4C	Z	-517	-517	0	%100
93	MP3C	X	-298	-298	0	%100
94	MP3C	Z	-517	-517	0	%100
95	MP2C	X	-298	-298	0	%100
96	MP2C	Z	-517	-517	0	%100
97	MP1C	X	-298	-298	0	%100
98	MP1C	Z	-517	-517	0	%100
99	M76	X	-079	-079	0	%100
100	M76	Z	-136	-136	0	%100
101	M77	X	-079	-079	0	%100
102	M77	Z	-136	-136	0	%100
103	M78	X	-079	-079	0	%100
104	M78	Z	-136	-136	0	%100
105	M79	X	-079	-079	0	%100
106	M79	Z	-136	-136	0	%100
107	M86	X	-393	-393	0	%100
108	M86	Z	-681	-681	0	%100
109	M89	X	-224	-224	0	%100
110	M89	Z	-388	-388	0	%100
111	M90	X	-224	-224	0	%100
112	M90	Z	-388	-388	0	%100
113	M99	X	-02	-02	0	%100
114	M99	Z	-034	-034	0	%100
115	M100	X	-02	-02	0	%100
116	M100	Z	-034	-034	0	%100



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**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,%]
117	M101	X	-.02	-.02	0	%100
118	M101	Z	-.034	-.034	0	%100
119	M102	X	-.02	-.02	0	%100
120	M102	Z	-.034	-.034	0	%100
121	M103	X	-.028	-.028	0	%100
122	M103	Z	-.048	-.048	0	%100
123	M104	X	-.028	-.028	0	%100
124	M104	Z	-.048	-.048	0	%100
125	M105	X	-.194	-.194	0	%100
126	M105	Z	-.336	-.336	0	%100
127	OVP	X	-.194	-.194	0	%100
128	OVP	Z	-.336	-.336	0	%100
129	M107	X	-.059	-.059	0	%100
130	M107	Z	-.102	-.102	0	%100
131	M108	X	-.059	-.059	0	%100
132	M108	Z	-.102	-.102	0	%100
133	M109	X	-.059	-.059	0	%100
134	M109	Z	-.102	-.102	0	%100
135	M110	X	-.059	-.059	0	%100
136	M110	Z	-.102	-.102	0	%100
137	M111	X	-.045	-.045	0	%100
138	M111	Z	-.077	-.077	0	%100
139	M112	X	-.045	-.045	0	%100
140	M112	Z	-.077	-.077	0	%100
141	M113	X	-.078	-.078	0	%100
142	M113	Z	-.135	-.135	0	%100
143	M114	X	-.078	-.078	0	%100
144	M114	Z	-.135	-.135	0	%100
145	MP4B	X	-.298	-.298	0	%100
146	MP4B	Z	-.517	-.517	0	%100
147	MP3B	X	-.298	-.298	0	%100
148	MP3B	Z	-.517	-.517	0	%100
149	MP2B	X	-.298	-.298	0	%100
150	MP2B	Z	-.517	-.517	0	%100
151	MP1B	X	-.298	-.298	0	%100
152	MP1B	Z	-.517	-.517	0	%100
153	M119	X	-.079	-.079	0	%100
154	M119	Z	-.136	-.136	0	%100
155	M120	X	-.079	-.079	0	%100
156	M120	Z	-.136	-.136	0	%100
157	M121	X	-.079	-.079	0	%100
158	M121	Z	-.136	-.136	0	%100
159	M122	X	-.079	-.079	0	%100
160	M122	Z	-.136	-.136	0	%100
161	M129	X	-.393	-.393	0	%100
162	M129	Z	-.681	-.681	0	%100
163	M132	X	-.22	-.22	0	%100
164	M132	Z	-.381	-.381	0	%100
165	M134	X	-.202	-.202	0	%100
166	M134	Z	-.35	-.35	0	%100
167	M136	X	-.004	-.004	0	%100
168	M136	Z	-.007	-.007	0	%100



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**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,%]
169	OVP3	X	-272	-272	0 %100
170	OVP3	Z	-471	-471	0 %100
171	OVP1	X	-272	-272	0 %100
172	OVP1	Z	-471	-471	0 %100

**Member Area Loads**

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

**Envelope Joint Reactions**

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N65	max	1695.174	8	1127.217	17	1291.22	2	1.79	8	0	75	1.713	8
2		min	-1899.065	2	180.302	11	-2060.3	8	-1.403	2	0	1	-1.845	2
3	N66	max	1096.523	44	1103.241	16	1485.486	14	1.104	2	0	75	.9	2
4		min	-680.036	2	215.749	10	-347.288	8	-.669	8	0	1	-1.054	8
5	N132	max	1707.662	10	1221.497	24	1556.568	6	1.154	12	0	75	1.783	10
6		min	-2301.022	4	155.417	6	-979.64	12	-1.482	6	0	1	-2.046	4
7	N133	max	1353.213	22	1195.825	24	-73.958	2	.315	6	0	75	.964	4
8		min	-664.8	4	197.411	5	-822.606	20	-.627	12	0	1	-1.272	10
9	N199	max	1834.336	14	1240.86	21	2832.807	12	2.842	6	0	75	1.28	2
10		min	-461.481	8	236.635	3	-2926.898	6	-2.701	12	0	1	-.679	8
11	N200	max	-31.489	11	1220.856	19	1307.258	12	1.562	12	0	75	.977	17
12		min	-1609.564	17	213.593	12	-1226.878	6	-1.435	6	0	1	-.189	11
13	Totals:	max	3306.384	10	6650.625	18	3264.949	1						
14		min	-3306.388	4	1688.978	64	-3264.95	7						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	LV	PIPE 2.0	.338	10.172	42	.124	7.656	31	8922.084	32130	1.872	1.872	2...	H-1-1b	
2	M2	PIPE 2.0	.427	2.734	2	.182	2.734	9	8922.084	32130	1.872	1.872	1...	H-1-1b	
3	M13	PL5/8X3.5	.274	.422	8	.414	.422	y	8	66184.77	68906.25	.897	5.024	1...	H-1-1b
4	M14	PL5/8X3.5	.119	0	49	.074	.422	y	2	66184.77	68906.25	.897	5.024	1...	H-1-1b
5	M15	PL5/8X3.5	.233	0	44	.083	.422	y	12	66184.77	68906.25	.897	5.024	1...	H-1-1b
6	M16	PL5/8X3.5	.189	0	37	.106	0	y	7	66184.77	68906.25	.897	5.024	1...	H-1-1b
7	M17	PIPE 1.5	.675	0	8	.136	2.501	2	22447.9...	23593.5	1.105	1.105	1...	H-1-1b	
8	M18	PIPE 1.5	.122	0	2	.072	0	13	22447.9...	23593.5	1.105	1.105	1...	H-1-1b	
9	M19	PIPE 1.5	.135	0	12	.106	0	48	22447.9...	23593.5	1.105	1.105	1...	H-1-1b	
10	M20	PIPE 1.5	.186	0	7	.090	0	48	22447.9...	23593.5	1.105	1.105	2...	H-1-1b	
11	M21	PL5/8X3.5	.349	.531	8	.169	.531	y	8	67591.76	68906.25	.897	5.024	1...	H-1-1b
12	M22	PL5/8X3.5	.405	.531	46	.057	.531	y	43	67591.76	68906.25	.897	5.024	1...	H-1-1b
13	M23	PL5/8X3.5	.286	.531	14	.053	.437	y	24	67591.76	68906.25	.897	5.024	1...	H-1-1b
14	M24	PL5/8X3.5	.405	.531	48	.078	.437	y	24	67591.76	68906.25	.897	5.024	1...	H-1-1b
15	M25	SR 0.625	.014	0	8	.012	3.536	23	1792.566	9670.5	.094	.094	1...	H-1-1b*	
16	M26	SR 0.625	.061	0	20	.017	3.536	16	1792.566	9670.5	.094	.094	1...	H-1-1b*	
17	M27	SR 0.625	.000	0	75	.018	0	16	1792.566	9670.5	.094	.094	1...	H-1-1a	
18	M28	SR 0.625	.113	3.536	44	.024	0	23	1792.566	9670.5	.094	.094	1...	H-1-1b*	
19	MP4A	PIPE 2.0	.208	4.667	49	.040	2.188	9	17855.0...	32130	1.872	1.872	4...	H-1-1b	



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

Member	Shape	Code Check	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
20	MP3A	PIPE 2.0	.140	4.667	45	.055	2.188	9	17855.0...	32130	1.872	1.872	4...H1-1b	
21	MP2A	PIPE 2.0	.201	2.115	1	.048	4.667	8	17855.0...	32130	1.872	1.872	2...H1-1b	
22	MP1A	PIPE 2.0	.332	2.188	41	.071	2.188	41	17855.0...	32130	1.872	1.872	4...H1-1b	
23	M44	SR 0.625	.039	1.25	8	.026	0	9	3585.909	9670.5	.094	.094	1...H1-1b	
24	M45	SR 0.625	.027	1.25	11	.011	0	9	3585.909	9670.5	.094	.094	1...H1-1b	
25	M46	SR 0.625	.030	1.25	7	.007	0	17	3585.909	9670.5	.094	.094	1 H1-1b	
26	M47	SR 0.625	.043	0	2	.024	0	44	3585.909	9670.5	.094	.094	1...H1-1b*	
27	M43	PIPE 4.0	.230	.375	8	.124	.375	8	83097.9...	93240	10.631	10.631	2...H1-1b	
28	M46A	PIPE 2.0	.228	2.734	10	.078	2.844	4	8922.084	32130	1.872	1.872	2...H1-1b	
29	M47A	PIPE 2.0	.421	2.734	10	.201	2.734	5	8922.084	32130	1.872	1.872	2...H1-1b	
30	M56	PL5/8X3.5	.316	0	10	.293	.422	y	4	66184.77	68906.25	.897	5.024	1...H1-1b
31	M57	PL5/8X3.5	.139	.422	16	.141	.422	y	4	66184.77	68906.25	.897	5.024	1...H1-1b
32	M58	PL5/8X3.5	.240	.422	17	.044	0	y	3	66184.77	68906.25	.897	5.024	1...H1-1b
33	M59	PL5/8X3.5	.258	.422	15	.056	0	y	9	66184.77	68906.25	.897	5.024	1...H1-1b
34	M60	PIPE 1.5	.608	0	4	.096	0	17	22447.9...	23593.5	1.105	1.105	2...H1-1b	
35	M61	PIPE 1.5	.163	0	4	.079	0	17	22447.9...	23593.5	1.105	1.105	1...H1-1b	
36	M62	PIPE 1.5	.153	0	20	.191	0	16	22447.9...	23593.5	1.105	1.105	2...H1-1b	
37	OVP2	PIPE 1.5	.172	0	3	.191	0	17	22447.9...	23593.5	1.105	1.105	2...H1-1b	
38	M64	PL5/8X3.5	.355	.531	16	.072	.531	y	4	67591.76	68906.25	.897	5.024	1...H1-1b
39	M65	PL5/8X3.5	.287	.531	17	.177	.531	y	16	67591.76	68906.25	.897	5.024	1...H1-1b
40	M66	PL5/8X3.5	.345	.531	22	.063	.531	y	10	67591.76	68906.25	.897	5.024	1...H1-1b
41	M67	PL5/8X3.5	.274	.531	24	.175	0	y	16	67591.76	68906.25	.897	5.024	1...H1-1b
42	M68	SR 0.625	.011	0	4	.023	3.536	5	1792.566	9670.5	.094	.094	1...H1-1b*	
43	M69	SR 0.625	.073	0	16	.013	3.536	24	1792.566	9670.5	.094	.094	1...H1-1b*	
44	M70	SR 0.625	.000	0	75	.038	0	24	1792.566	9670.5	.094	.094	1...H1-1a	
45	M71	SR 0.625	.093	3.536	16	.036	0	17	1792.566	9670.5	.094	.094	1...H1-1b*	
46	MP4C	PIPE 2.0	.098	4.667	13	.038	2.188	8	17855.0...	32130	1.872	1.872	4...H1-1b	
47	MP3C	PIPE 2.0	.066	4.667	8	.051	2.188	5	17855.0...	32130	1.872	1.872	2...H1-1b	
48	MP2C	PIPE 2.0	.198	2.115	9	.050	4.667	2	17855.0...	32130	1.872	1.872	1...H1-1b	
49	MP1C	PIPE 2.0	.108	4.667	22	.018	2.188	13	17855.0...	32130	1.872	1.872	3...H1-1b	
50	M76	SR 0.625	.027	1.25	11	.028	0	11	3585.909	9670.5	.094	.094	1...H1-1b	
51	M77	SR 0.625	.036	1.25	6	.011	0	5	3585.909	9670.5	.094	.094	1...H1-1b	
52	M78	SR 0.625	.030	1.25	12	.006	0	24	3585.909	9670.5	.094	.094	1...H1-1b	
53	M79	SR 0.625	.023	1.25	10	.011	0	24	3585.909	9670.5	.094	.094	1...H1-1b	
54	M86	PIPE 4.0	.191	.375	4	.101	1.75	4	83097.9...	93240	10.631	10.631	2...H1-1b	
55	M89	PIPE 2.0	.271	3.609	12	.102	7.656	24	8922.084	32130	1.872	1.872	2...H1-1b	
56	M90	PIPE 2.0	.563	2.734	6	.259	2.734	6	8922.084	32130	1.872	1.872	1...H1-1b	
57	M99	PL5/8X3.5	.238	.422	12	.100	.422	y	12	66184.77	68906.25	.897	5.024	1...H1-1b
58	M100	PL5/8X3.5	.104	.422	24	.041	.422	y	12	66184.77	68906.25	.897	5.024	1...H1-1b
59	M101	PL5/8X3.5	.238	.422	24	.211	0	y	11	66184.77	68906.25	.897	5.024	1...H1-1b
60	M102	PL5/8X3.5	.286	.422	23	.261	.422	y	22	66184.77	68906.25	.897	5.024	1...H1-1b
61	M103	PIPE 1.5	.860	0	6	.115	2.501	12	22447.9...	23593.5	1.105	1.105	1...H1-1b	
62	M104	PIPE 1.5	.137	1.25	6	.083	0	23	22447.9...	23593.5	1.105	1.105	1...H1-1b	
63	M105	PIPE 1.5	.231	0	24	.106	0	23	22447.9...	23593.5	1.105	1.105	2...H1-1b	
64	OVP	PIPE 1.5	.304	0	23	.110	0	23	22447.9...	23593.5	1.105	1.105	2...H1-1b	
65	M107	PL5/8X3.5	.412	.531	12	.114	.531	y	12	67591.76	68906.25	.897	5.024	1...H1-1b
66	M108	PL5/8X3.5	.424	.531	13	.079	.531	y	22	67591.76	68906.25	.897	5.024	1...H1-1b
67	M109	PL5/8X3.5	.276	.531	6	.073	.531	y	6	67591.76	68906.25	.897	5.024	1...H1-1b
68	M110	PL5/8X3.5	.416	.531	17	.059	0	y	24	67591.76	68906.25	.897	5.024	1...H1-1b
69	M111	SR 0.625	.043	0	12	.025	0	6	1792.566	9670.5	.094	.094	1...H1-1b*	
70	M112	SR 0.625	.050	0	23	.015	3.536	20	1792.566	9670.5	.094	.094	1...H1-1b*	
71	M113	SR 0.625	.000	0	75	.021	0	21	1792.566	9670.5	.094	.094	1...H1-1a	



Company :  
 Designer :  
 Job Number :  
 Model Name :

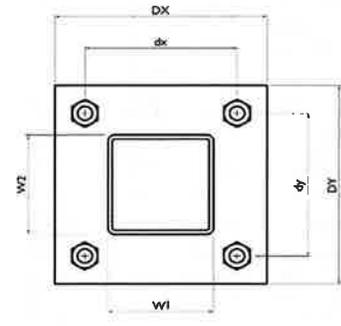
June 1, 2023  
 3:40 PM  
 Checked By: \_\_\_\_\_

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

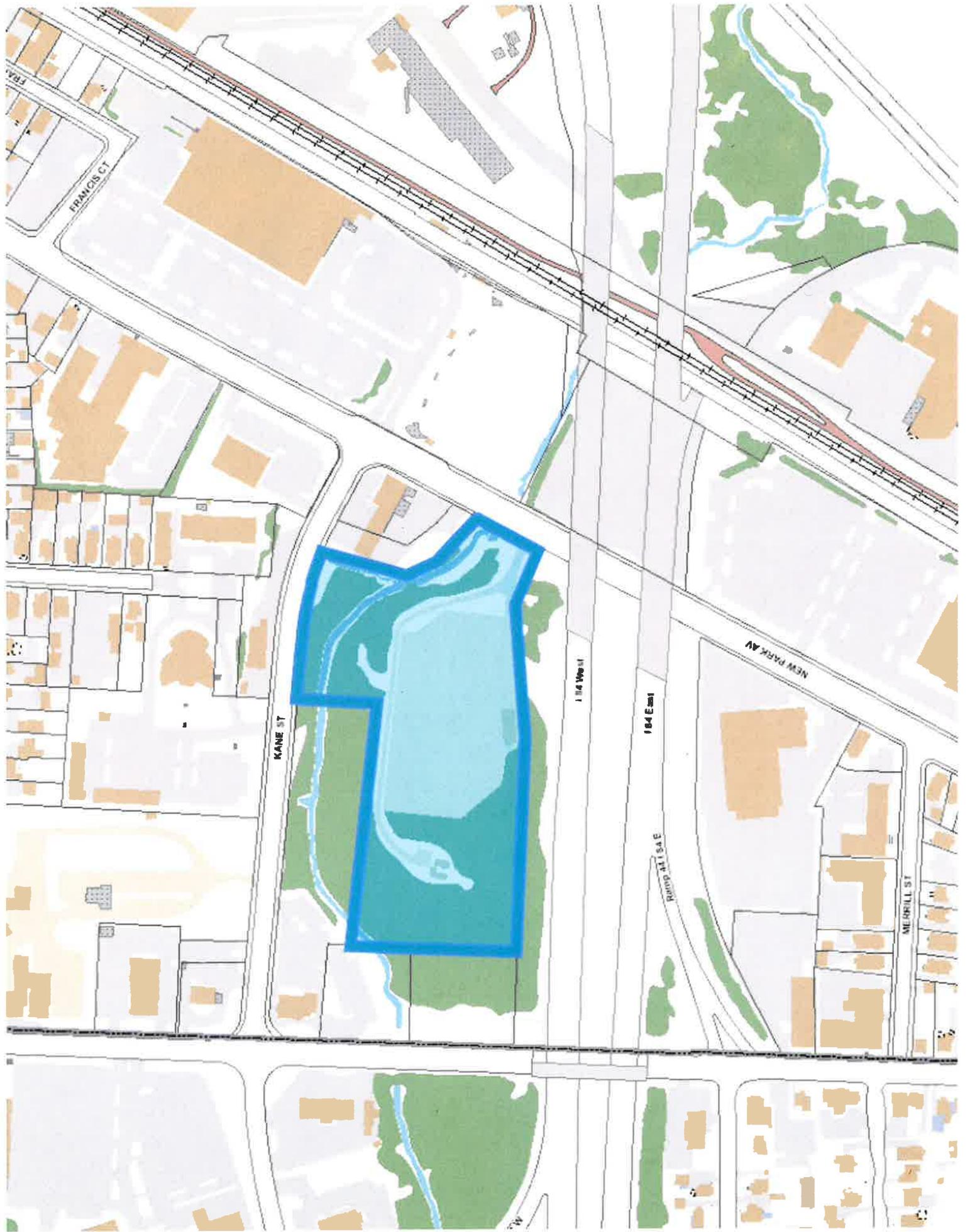
Member	Shape	Code Check	Loc(ft)	LC Shear ...	Loc(ft)	Dir	LC	phi*Pnc ...	phi*Pnt [...]	phi*Mn y...	phi*Mn z...	Cb	Eqn
72	M114	SR 0.625	.124	3.536	23	.024	0	14	1792.566	9670.5	.094	.094	1... H1-1b*
73	MP4B	PIPE 2.0	.087	4.667	12	.036	4.667	6	17855.0...	32130	1.872	1.872	3... H1-1b
74	MP3B	PIPE 2.0	.134	2.188	12	.074	2.188	12	17855.0...	32130	1.872	1.872	2... H1-1b
75	MP2B	PIPE 2.0	.201	2.115	5	.048	4.667	12	17855.0...	32130	1.872	1.872	1... H1-1b
76	MP1B	PIPE 2.0	.172	4.667	16	.053	4.667	15	17855.0...	32130	1.872	1.872	3... H1-1b
77	M119	SR 0.625	.023	1.25	11	.044	0	6	3585.909	9670.5	.094	.094	1... H1-1b
78	M120	SR 0.625	.031	1.25	3	.014	0	12	3585.909	9670.5	.094	.094	1... H1-1b
79	M121	SR 0.625	.032	1.25	11	.008	0	19	3585.909	9670.5	.094	.094	1... H1-1b
80	M122	SR 0.625	.031	1.25	6	.016	0	24	3585.909	9670.5	.094	.094	1... H1-1b
81	M129	PIPE 4.0	.270	.375	12	.148	1.75	12	83097.9...	93240	10.631	10.631	2... H1-1b
82	M132	PIPE 2.0	.067	4.313	9	.035	0	2	25707.8...	32130	1.872	1.872	1... H1-1b*
83	M134	PIPE 2.0	.066	4.313	5	.021	0	5	25707.8...	32130	1.872	1.872	1... H1-1b*
84	M136	PIPE 2.0	.098	0	12	.036	0	12	25707.8...	32130	1.872	1.872	1... H1-1b*
85	OVP3	PIPE 2.0	.035	2	1	.100	3.25	12	26521.4...	32130	1.872	1.872	1 H1-1b
86	OVP1	PIPE 2.0	.035	2	1	.066	3.25	5	26521.4...	32130	1.872	1.872	1 H1-1b

**I. Mount-to-Tower Connection Check**

<u>Custom Orientation Required</u>	No
<u>Tower Connection Bolt Checks</u>	Yes
<u>Bolt Orientation</u>	Parallel
Bolt Quantity per Reaction:	4
$d_x$ (in) (Delta X of typ. bolt config. sketch):	6
$d_y$ (in) (Delta Y of typ. bolt config. sketch):	6
Bolt Type:	A307
Bolt Diameter (in):	0.5
Required Tensile Strength / bolt (kips):	3.0
Required Shear Strength / bolt (kips):	1.7
Tensile Capacity / bolt (kips):	6.6
Shear Capacity / bolt (kips):	4.0
Bolt Overall Utilization:	51.6%
<u>Tower Connection Baseplate Checks</u>	No



# **ATTACHMENT 5**





- HOME
- SEARCH
- SUMMARY**
- INTERIOR
- EXTERIOR
- SALES
- ABOUT

Printable Record Card | Previous Assessment | Condo Info | Sales | Zoning | Comments **WebPro**

Card 1 of 1

<b>Location</b> 219 NEW PARK AVE	<b>Property Account Number</b>	<b>Parcel ID</b> 138-472-001 Old Parcel ID I-E 2016-18660-
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**Current Property Mailing Address**

<b>Owner</b> CONN LIGHT & POWER CO	<b>City</b> HARTFORD
<b>Address</b> PO BOX 270	<b>State</b> CT
	<b>Zip</b> 06141-0270
	<b>Zoning</b> MS-3

**Current Property Sales Information**

<b>Sale Date</b> 7/2/1982	<b>Legal Reference</b> 01977 0129
<b>Sale Price</b> 0	<b>Grantor(Seller)</b> N/A

**Current Property Assessment**

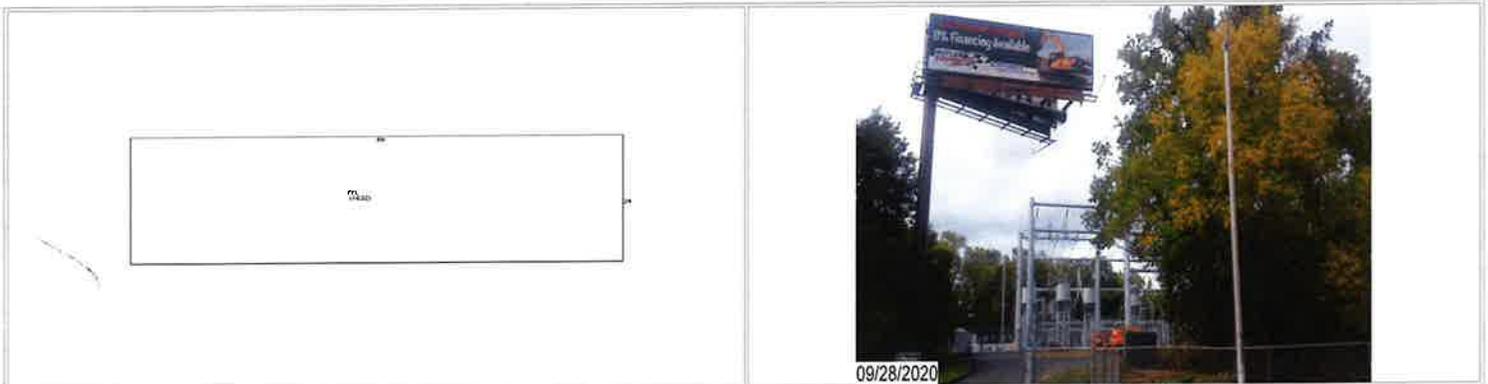
<b>Year</b> 2023	<b>Card 1 Value</b>
<b>Land Area</b> 311018 -	<b>Building Value</b> 11,830
	<b>Xtra Features Value</b> 10,570
	<b>Land Value</b> 1,176,770
	<b>Total Value</b> 1,199,170

**Narrative Description**

This property contains 311018 - of land mainly classified as OTHER UTILTY with a(n) WAREHSE style building, built about 1978 , having Metal exterior and Metal roof cover, with 0 commercial unit(s) and 0 residential unit(s), 0 total room(s), 0 total bedroom(s), 0 total bath(s), 0 total half bath(s), 0 total 3/4 bath(s).

**Legal Description**

**Property Images**



# **ATTACHMENT 6**

**Certificate of Mailing — Firm**



Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  <p style="text-align: center; font-size: 2em;">3</p>	TOTAL NO. of Pieces Received at Post Office™  <p style="text-align: center; font-size: 2em;">3</p>	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  <div style="text-align: right;">                     neopost™                      08/10/2023  <b>US POSTAGE \$003.19<sup>00</sup></b>                         ZIP 06103                      041L12203937                 </div>
	Postmaster, per (name of receiving employee)  		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Luke Bronin, Mayor City of Hartford 550 Main Street Hartford, CT 06103				
2.	Erin Howard, Acting Director of Planning City of Hartford 550 Main Street Hartford, CT 06103				
3.	Connecticut Light and Power P.O. Box 270 Hartford, CT 06141-0270				
4.					
5.					
6.					

