

January 17, 2024

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
382 Colebrook River Road, Colebrook, 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 (“RRHs”) on an existing tower and related equipment on the ground, near the base of the tower. The original tower was approved by the Siting Council (the “Council”) in February of 2005 (Docket No. 296). Cellco’s shared use of the tower was approved by the Siting Council in October of 2006 (EM-VER-029-060925). A copy of the Docket No. 296 Decision and Order and Cellco’s EM-VER-029-060925 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) existing antennas and three (3) RRHs and installing nine (9) new antennas and six (6) new RRHs on its existing antenna platform and mounting assemblies. A set of project plans showing Cellco’s proposed facility modifications and the new antenna and RRH specifications are included in Attachment 2.

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

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

28610897-v1

Melanie A. Bachman, Esq.
January 17, 2024
Page 2

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas and RRHs will be installed at the same height on the tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas and RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Included in Attachment 3 is a Calculated Radio Frequency Emissions Report demonstrating that the proposed modified facility will comply with the FCC safety standards. 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 ("MA"), the existing tower, tower foundation and antenna mounts, with certain hardware upgrades, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Bradley Bremer, First Selectman
Alan Drapach, Land Use Enforcement Officer
382 Colebrook LLC, Property Owner
Aleksey Tyurin

ATTACHMENT 1

DOCKET NO. 296 – Tower Ventures II, LLC application for a } Connecticut
Certificate of Environmental Compatibility and Public Need for }
the construction, maintenance and operation of a wireless } Siting
telecommunications facility at one of two sites located at 382 }
Colebrook River Road, Colebrook, Connecticut. } Council

February 2, 2005

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Tower Ventures II, LLC for the construction, maintenance and operation of a wireless telecommunications facility at the site identified as A-1 at 382 Colebrook River Road in Colebrook, Connecticut. The Council denies certification of the site identified as A-2 at 382 Colebrook River Road.

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

1. The tower shall be designed as a monopole and shall be constructed no taller than 150 feet above ground level to provide telecommunications services to both public and private entities.
2. The location of the tower shall be moved to the north to maintain a minimum distance of 150 feet to property line of the adjacent property to the south.
3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on all parties and intervenors, as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas mountings, equipment building, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council in the event other carriers locate at this facility or if circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.
8. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
9. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.
10. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved. Any request for extensions of the period shall be filed with the Council not later than sixty days prior to expiration date of the Certificate and shall be served on all parties and intervenors, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.
11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Waterbury Republican-American and the Winsted Journal.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

Applicant

Tower Ventures II, LLC

Its Representative

Benjamin S. Proto, Jr., Esq.
2090 Cutspring Road
Stratford, CT 06614
(203) 378-9595

Kenneth I. Spigle, Esq.
Tower Ventures II, LLC
170 Westminster Street, Suite 701
Providence, RI 02903

Intervenor

Nextel Communications, Inc.

Its Representative

Thomas F. Flynn III
Nextel Zoning Manager
100 Corporate Place
Rocky Hill, CT 06067
860-513-5458
860-513-5444 – fax

Intervenor

Colebrook Planning and Zoning Commission

Its Representative

Betsy Little, Chairperson
P.O. Box 5
Colebrook, CT 06021
860-379-3359
860-379-7215 – fax



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

October 17, 2006

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

RE: **EM-VER-029-060925** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 382 Colebrook River Road, Colebrook, Connecticut.

Dear Attorney Baldwin:

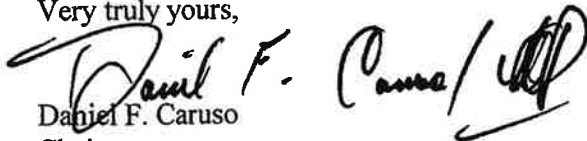
At a public meeting held on October 10, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 25, 2006, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,



Daniel F. Caruso
Chairman

DFC/MP/laf

- c: The Honorable Jerome F. Rathbun, First Selectman, Town of Colebrook
Karl Nilsen, Zoning Enforcement Officer, Town of Colebrook
Leonard D. Johnson
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Michele G. Briggs, New Cingular Wireless PCS, LLC
David Vivian, Site Development Manager, Gridcom

ATTACHMENT 2



20 ALEXANDER DRIVE, 2nd FLOOR
WALLINGFORD, CT 06492
COLEBROOK CT
382 COLEBROOK RIVER ROAD
COLEBROOK, CT 06021
LITCHFIELD COUNTY

**PROJECT TYPE: UPGRADE TO EXISTING WIRELESS TELECOMMUNICATIONS
INSTALLATION ON EXISTING 150'± MONOPOLE**

SUPPORTING DOCUMENTS

RADIO FREQUENCY (RF) DESIGN DATE: 11/2/20
ANTENNA MOUNT STRUCTURAL ANALYSIS DATE: 11/20/20 (BY COLLEBS ENGINEERING & DESIGN)
ANTENNA SUPPORT STRUCTURE MONOPOLE STRUCTURAL ANALYSIS DATE: 11/20/20 (BY TOWER
CHECKING SOLUTIONS)



20 ALEXANDER DR., 2ND FLOOR
WALLINGFORD, CT 06492
(203) 741-7238



SBA COMMUNICATIONS CORP.
134 HANOVER ROAD, SUITE 105
WALLINGFORD, CT 06492
(203) 231-0720



CHAPPELL
ENGINEERING
ASSOCIATES, LLC
A/C CONSULTING CENTER
382 COLEBROOK RIVER ROAD
COLEBROOK, CT 06021
(203) 481-7605
www.chappell-engineering.com



DESIGNED BY: JKF
APPROVED BY: JKF

REV.	DATE	DESCRIPTION	BY
1	11/2/20	ISSUE FOR CONSTRUCTION	JKF
2	11/2/20	ISSUE FOR PERMIT	JKF

PROJECT NAME & NUMBER
COLEBROOK CT
382 COLEBROOK RIVER ROAD
COLEBROOK, CT 06021

TOWER LOCATION CODE: 00000
MO. LOCATION ID: 00000000
SITE PROJECT ID: 1102000

TITLE SHEET
SHEET NO.

T01

VICINITY MAP

SCALE 1"=1000'



DRIVING DIRECTIONS

FROM WALLINGFORD, TAKE CT 15 NORTH, TAKE EXIT 69W (R) & WEST TOWARD WETHERSFIELD RIVER. TAKE EXIT 10A LEFT FOR W. WEST TOWARD WATERBURY MANUFACTURING PARK ON TO R4. TAKE EXIT 20 FOR CT 10 NORTH TOWARD WASHINGTON. CONTINUE ON CT 10 N. EAST, CONTINUE ON TO CT 9. CONTINUE ON TO CT 9 N. COLEBROOK RIVER ROAD. THE SITE IS LOCATED ON THE RIGHT HAND SIDE.

SITE INFORMATION

VERIZON LOCATION CODE: 488280
VERIZON SITE NAME: COLEBROOK CT
SRA SITE NUMBER: CT10013 A
SRA SITE NAME: JOHNSON
SRA GLOBAL APP NUMBER: N/A
MO. LOCATION ID: 5000043070
SITE PROJECT ID: 1022060
PROPERTY OWNER: 382 COLEBROOK RIVER ROAD
COLEBROOK, CT 06021
PROPERTY OWNER: 382 COLEBROOK LLC
282 HANG DOG LANE
WETHERSFIELD, CT 06090
SRA TOWER S/L CODE: R9A
LOCAL ADDRESS: 382 COLEBROOK RIVER ROAD
PHONE: 481 228 9923
LITCHFIELD, CT
N/A
COUNTY: MONOPOLE
ZONING DISTRICT: 150 ±
STRUCTURE TYPE: 150 ±
STRUCTURE HEIGHT: 150 ±
STRUCTURE HEIGHT VARIATION: 150 ±
GROUND ELEVATION: 1,150 ±
TOTAL ANTS.: 1,200 ±
SITE CONTROL POINT: CENTER OF EXISTING MONOPOLE
N 41° 59' 01" E 191' 41" (1897) (RAD 191)
W 75° 42' 23" 20' (75.0389) (RAD 191)
ARCHITECT/ENGINEER: CHAPPELL ENGINEERING ASSOCIATES, LLC
201 BOSTON POST ROAD WEST, SUITE 101
WALLINGFORD, CT 06492

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES AT THE CONTRACTOR'S EXTENSE.
- NEW CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE CODES AND ORDINANCES.
ELECTRICAL CODE: 2002 NATIONAL ELECTRICAL CODE
BUILDING CODE: 2002 NATIONAL ELECTRICAL CODE
STRUCTURAL CODE: 2002 NATIONAL ELECTRICAL CODE
SUPPORTING STRUCTURES AND ANTENNAS



AT LEAST 72 HOURS PRIOR TO BEGINNING THE CONTRACTOR IS REQUIRED TO CALL THE SAFE (811).

SHEET INDEX

DWG.	DESCRIPTION	REV.
T01	TITLE SHEET	
GEN01	GENERAL NOTES	
AN01	SITE PLAN	
AN02	CONTOUR PLAN	
AN03	TOWER ELEVATIONS	
AN04	ANTENNA PLANS & SITE DETAILS	
RF01	RF DATA	
RF02	RF FLOORING DIMENSIONS	
RF03	RF COLOR CODE SPECIFICATIONS	
RF04	GROUNDING NOTES & DETAILS	

DO NOT SCALE DRAWINGS

ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS AT THE PROPOSED PROJECT SITE SHALL BE REPRESENTED AS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE PROPOSED WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY NOTIFIED TO THE ARCHITECT/ENGINEER IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE PROPOSED WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY NOTIFIED TO THE ARCHITECT/ENGINEER IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE PROPOSED WORK. ANY DISCREPANCIES SHALL BE IMMEDIATELY NOTIFIED TO THE ARCHITECT/ENGINEER IN WRITING.

PROJECT DESCRIPTION

- THIS IS AN UNBARRICADED AND RESTRICTED ACCESS EQUIPMENT INSTALLATION AND WILL BE USED FOR TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC WIRELESS TELECOMMUNICATIONS SERVICE.
- THIS FACILITY DOES NOT, NOR WILL IT, CONSUME UNRECOVERABLE ENERGY.
- NO SOLID WASTE IS TO BE GENERATED AT THIS LOCATION.
- NO SOLID WASTE IS TO BE GENERATED AT THIS LOCATION.
- NO SOLID WASTE IS TO BE GENERATED AT THIS LOCATION.

SCOPE OF WORK

- REMOVE:
- 12 ANTENNAS
 - 12 COAXIAL CABLES
 - 12 ANTENNAS
 - 3 SIDE BY SIDE ANTENNA MOUNT BRACKETS
 - 1 12'x12'
 - 2 HYBRID CABLES
- INSTALL:
- 9 ANTENNAS
 - 3 SIDE BY SIDE ANTENNA MOUNT BRACKETS
 - 1 12'x12'
 - 2 HYBRID CABLES

SPECIAL CONSTRUCTION WORK NOTE: SBA-PROVIDED ANTENNA MOUNT STRUCTURAL, MOUNT SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM THE VERIZON RADIOTELEPHONE DEPARTMENT. THE VERIZON RADIOTELEPHONE DEPARTMENT HAS PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

SPECIAL CONSTRUCTION WORK NOTE: SBA-PROVIDED ANTENNA MOUNT STRUCTURAL, MOUNT SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM THE VERIZON RADIOTELEPHONE DEPARTMENT. THE VERIZON RADIOTELEPHONE DEPARTMENT HAS PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).



CHAPPELL ENGINEERING ASSOCIATES, LLC
 615 COLLEEN DRIVE, SUITE 100
 WALLINGFORD, CT 06495
 (203) 431-7600
 www.chappell-engineering.com



CHECKED BY: JMT
 APPROVED BY: JMT

SUBMITTALS

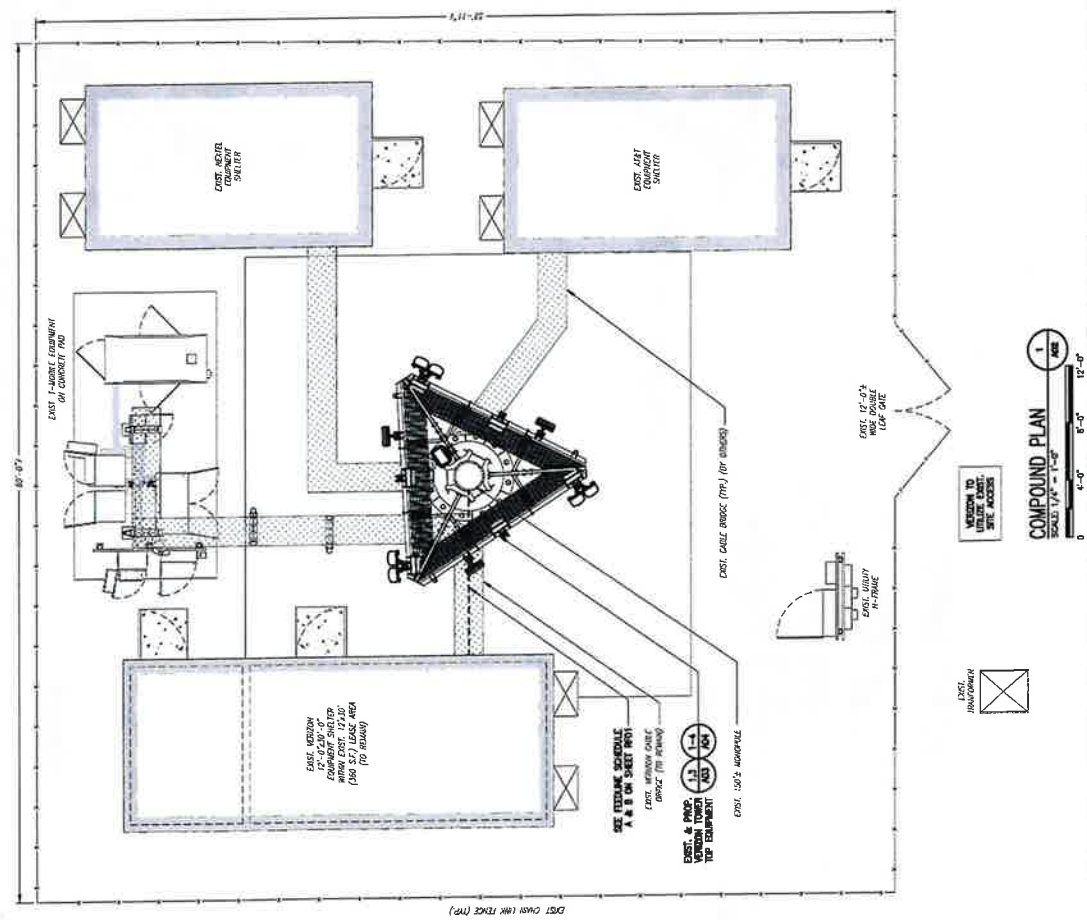
REV	DATE	DESCRIPTION	BY
1	10/20/10	ISSUED FOR CONSTRUCTION	JMT
2	10/27/10	ISSUED FOR REVISION	JMT

PROJECT NAME & ADDRESS
COLEBROOK CT
 382 COLEBROOK RIVER ROAD
 COLEBROOK, CT 06021

LOT/LAND CODE: 4400000
 M40 LOT/LAND ID: 000000000
 P400 PROJECT ID: 10070000

SHEET TITLE
COMPOUND PLAN

SHEET NUMBER
A02



COMPOUND PLAN
 SCALE: 1/4" = 1'-0"
 0 4'-0" 8'-0" 12'-0"

VISION TO UTILIZE EXIST. SITE ACCESS





Checked By: JMF Date: 1/10/2017

Approved By: JMF Date: 1/10/2017


REV	DATE	DESCRIPTION	BY
1	1/10/2017	ISSUED FOR CONSTRUCTION	JMF
2	1/10/2017	ISSUED FOR BIDD	JMF

PROJECT NAME & NUMBER
COLEBROOK CT
 380 COLEBROOK INVERT ROAD
 COLEBROOK, CT 06031


VEB LOCATION CODE: 488000
 SOO LOCATION ID: 0000000000
 POE PROJECT ID: 10070000

SHEET FILE
 SITE DETAILS

SHEET NUMBER
A04

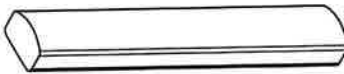


SAMSUNG R2448R-13A 86/213 RADIO
 DIMENSIONS: 15.07" x 10.7" x 10.7"
 WEIGHT: 7.52 lbs
 QUANTITY: 10 TOTAL OF 3
 SETTINGS: ALPHA, BETA, GAMMA

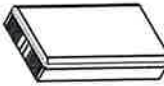


SAMSUNG R2448R-20A R2768A RADIO
 DIMENSIONS: 15.07" x 10.7" x 10.7"
 WEIGHT: 7.52 lbs
 QUANTITY: 10 TOTAL OF 3
 SETTINGS: ALPHA, BETA, GAMMA

RADIO DETAIL
SCALE: 1:1



COMSCOPE M4H-806-R28 ANTENNA
 DIMENSIONS: 72.47" x 11.97" x 7.17"
 WEIGHT: 43.7 lbs
 QUANTITY: 10 TOTAL OF 8
 SETTINGS: ALPHA, BETA, GAMMA



SAMSUNG M18413-77A ANTENNA
 DIMENSIONS: 28.17" x 14.47" x 5.57"
 WEIGHT: 97.2 lbs
 QUANTITY: 10 TOTAL OF 3
 SETTINGS: ALPHA, BETA, GAMMA

ANTENNA DETAILS
SCALE: 1:1

Procedure
 Installing Procedure

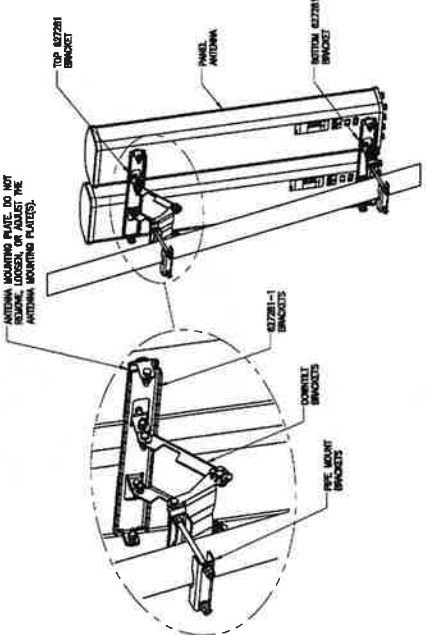
1. Verify that the antenna is properly mounted on a flat surface. If the antenna is not properly mounted, it may cause signal degradation. See page 10 of the antenna installation manual for more information.
2. Verify that the antenna is properly mounted on a flat surface. If the antenna is not properly mounted, it may cause signal degradation. See page 10 of the antenna installation manual for more information.
3. Verify that the antenna is properly mounted on a flat surface. If the antenna is not properly mounted, it may cause signal degradation. See page 10 of the antenna installation manual for more information.
4. Verify that the antenna is properly mounted on a flat surface. If the antenna is not properly mounted, it may cause signal degradation. See page 10 of the antenna installation manual for more information.

Quantity Distribution

Qty	Material	Part No.	Unit	Notes
1	Antenna	M4H-806-R28	10	10 x 10 x 10
1	Antenna	M18413-77A	10	10 x 10 x 10

Approved by: JMF Date: 1/10/2017

Scale: 1:1



COMSCOPE ISMANT-SRS-1-2 SIDE-BY-SIDE ANTENNA MOUNT BRACKET
 DIMENSIONS: 28.17" x 14.47" x 5.57"
 WEIGHT: 97.2 lbs
 QUANTITY: 10 TOTAL OF 3
 NOTE: MOUNT ANTENNA PER MANUFACTURER'S SPECIFICATIONS

TYPICAL SIDE-BY-SIDE ANTENNA MOUNT KIT
SCALE: 1:1

TYPICAL FIBER JUNCTION BOX (OVP) DETAILS
SCALE: 1:1

TYPICAL FIBER JUNCTION BOX
 DIMENSIONS: 20.07" x 10.07" x 12.07"
 WEIGHT: 10.07 lbs
 QUANTITY: 10 TOTAL OF 1



PROJ. NAME & NUMBER
COLEBROOK CT
 382 COLEBROOK RIVER ROAD
 COLEBROOK, CT 06821

REV	DATE	DESCRIPTION	BY
1	10/26/21	ISSUED FOR CONSTRUCTION	ME
2	12/21/21	ISSUED FOR PERMITS	ME

RF DATA

RF01

EXISTING EQUIPMENT CONFIGURATION

SECTOR	EQUIPMENT MAKE & MODEL	QTY	AZIMUTH (TRUE NORTH)	ANTENNA RAD	BAND	MECHANICAL DOWNLIFT	ELECTRICAL DOWNLIFT	EQUIPMENT STATUS	H (ft)	W (ft)	D (ft)	WEIGHT (LBS)	HYBRID CABLE SIZE & QTY
ALPHA	AMTEL 104-3000A-627 ANTENNA	1	0°	1277.5 AXL	SWR6	-	-	FRS	79.8	3.3	12.7	21.0	
	AMTEL 104-3000A-627 ANTENNA	1	0°	1277.5 AXL	LE 200	0	0	FRS	71.8	8.0	3.9	16.0	
	AMTEL 104-3000A-627 ANTENNA	1	0°	1277.5 AXL	SWR6	-	-	FRS	49.0	4.0	3.0	12.8	
BETA	AMTEL 104-3000A-627 ANTENNA	1	130°	1277.5 AXL	SWR6	-	-	FRS	79.8	3.3	12.7	21.0	
	AMTEL 104-3000A-627 ANTENNA	1	120°	1277.5 AXL	LE 200	0	0	FRS	71.8	8.0	3.9	16.0	
	AMTEL 104-3000A-627 ANTENNA	1	130°	1277.5 AXL	SWR6	-	-	FRS	49.0	4.0	3.0	12.8	
GAMMA	AMTEL 104-3000A-627 ANTENNA	1	240°	1277.5 AXL	SWR6	-	-	FRS	79.8	3.3	12.7	21.0	
	AMTEL 104-3000A-627 ANTENNA	1	240°	1277.5 AXL	LE 200	0	0	FRS	71.8	8.0	3.9	16.0	
	AMTEL 104-3000A-627 ANTENNA	1	240°	1277.5 AXL	SWR6	-	-	FRS	49.0	4.0	3.0	12.8	

DUST (1) 95% DUSTAL CABLES

NOTES:
 1. "TOP" DOWNLIFT "ADDING TO REMAIN"
 2. "TOP" DOWNLIFT "ADDING TO BE REMOVED"
 3. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKETS
 4. INFORMATION IS BASED ON PERMITS DATED 11/27/21.

FINAL EQUIPMENT CONFIGURATION

SECTOR	EQUIPMENT MAKE & MODEL	QTY	AZIMUTH (TRUE NORTH)	ANTENNA RAD	BAND	MECHANICAL DOWNLIFT	ELECTRICAL DOWNLIFT	EQUIPMENT STATUS	H (ft)	W (ft)	D (ft)	WEIGHT (LBS)	HYBRID CABLE SIZE & QTY
ALPHA	COMBUSTOR 1041-300-108 ANTENNAS	2	0°	1277.5 AXL	LIE 300/1000/1000/MS 50 LBS	0/70/70/0°	2/72/00/0°	NEP	71.0	8.0	3.9	16.0	
	SHANGHAI 1041-300-108 ANTENNAS	1	0°	1277.5 AXL	50 LBS	0	0	NEP	28.0	10.8	3.5	37.3	
BETA	COMBUSTOR 1041-300-108 ANTENNAS	2	130°	1277.5 AXL	LIE 300/1000/1000/MS 50 LBS	0/70/70/0°	2/72/00/0°	NEP	71.0	8.0	3.9	16.0	
	SHANGHAI 1041-300-108 ANTENNAS	1	130°	1277.5 AXL	50 LBS	0	0	NEP	28.0	10.8	3.5	37.3	
GAMMA	COMBUSTOR 1041-300-108 ANTENNAS	2	240°	1277.5 AXL	LIE 300/1000/1000/MS 50 LBS	0/70/70/0°	2/72/00/0°	NEP	71.0	8.0	3.9	16.0	
	SHANGHAI 1041-300-108 ANTENNAS	1	240°	1277.5 AXL	50 LBS	0	0	NEP	28.0	10.8	3.5	37.3	
ALL	SHANGHAI 1041-300-108 ANTENNAS	3	-	-	-	-	-	NEP	15.0	15.0	10.0	74.2	
	OP: 12	1	-	-	-	-	-	NEP	28.0	10.8	3.5	37.3	

PROP. (2) 95% HYBRID CABLES

NOTES:
 1. "TOP" DOWNLIFT "ADDING TO REMAIN"
 2. "TOP" DOWNLIFT "ADDING TO BE REMOVED"
 3. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKETS
 4. INFORMATION IS BASED ON PERMITS DATED 11/27/21.

FEEDLINE SCHEDULE

SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (1) 15' COAX CABLE FOR GPS ANTENNA EXISTING TO BE REMOVED: (1) 95% DUSTAL CABLES	ROOFED PER STRUCTURAL ANALYSIS
B	PROPOSED: (2) 95% HYBRID CABLES	

NOTES:
 1. "TOP" DOWNLIFT "ADDING TO REMAIN"
 2. "TOP" DOWNLIFT "ADDING TO BE REMOVED"
 3. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKETS
 4. INFORMATION IS BASED ON PERMITS DATED 11/27/21.



20 ASHMEY DRING, 2ND FLOOR
 06033-71-7282



SM COMMUNICATIONS CORP
 134 FLEMING BLVD, SUITE 105
 06033-71-7282



CHAPMAN ENGINEERING
 ASSOCIATES, LLC
 100 DORSET DRIVE, SUITE 101
 WINDSOR, MA 01095
 (508) 461-7300
 www.chapmaneng.com



CHECKED BY: JMF
 APPROVED BY: JMF

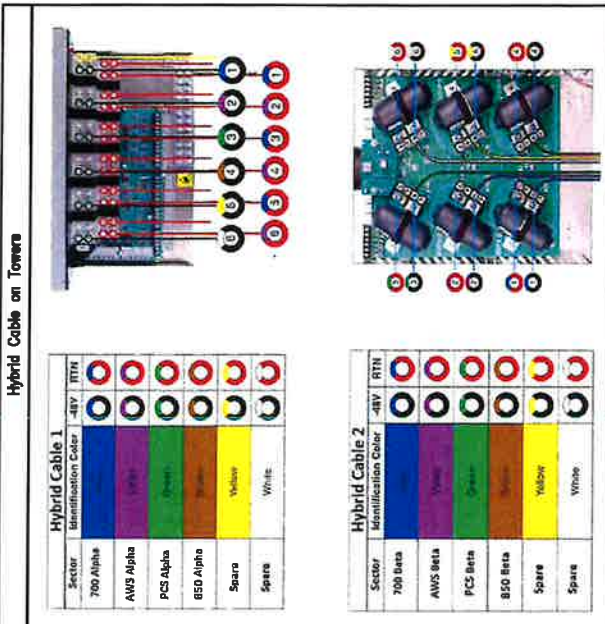
REV	DATE	DESCRIPTION	BY
1	10/24/20	ISSUE FOR CONSTRUCTION	JMF
2	12/14/20	ISSUE FOR REVISION	JMF

PROJECT NAME: 000000
COLEBROOK CT
 382 COLEBROOK RIVER ROAD
 COLEBROOK, CT 06021

VEN LOCATION CODE: 000000
 W90 LOCATION ID: 0000000000
 FUSE PROJECT ID: 0000000000

RF COLOR CODE SPECIFICATIONS

SHEET NUMBER
RF03



Line	Color	Quantity	Notes
1	Blue	1	Alpha Sector -4B
2	Purple	1	AWS Sector -4B
3	Green	1	PCS Sector -4B
4	Orange	1	850 Sector -4B
5	Yellow	1	Spare -4B
6	White	1	Spare -4B
7	Blue	1	Beta Sector -4B
8	Purple	1	AWS Sector -4B
9	Green	1	PCS Sector -4B
10	Orange	1	850 Sector -4B
11	Yellow	1	Spare -4B
12	White	1	Spare -4B

CABLE NOTE:
 SEE FREQUENCY SCHEDULE A & B ON SHEET REV1
 FOR EXISTING & PROPOSED CABLE QUANTITIES.

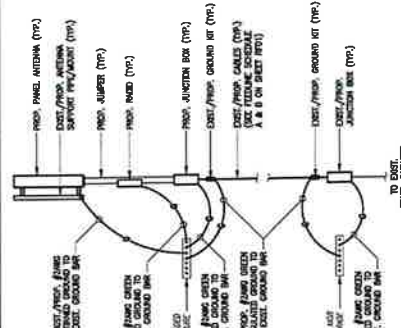
LINE COLOR CODE SPECIFICATIONS
 SCALE: N/A

HYBRID CABLE COLOR CODE SPECIFICATIONS
 SCALE: N/A

GROUNDING GENERAL NOTES

1. ALL EXTERIOR CONDUCTORS SHALL BE #4 AWG. SOLID, UNINSULATED COPPER, UNLESS OTHERWISE NOTED. MINIMUM ROD DIAMETER SHALL BE EIGHT (8) INCHES.
2. ALL WIRE-TO-WIRE CONNECTIONS SHALL BE THREE-WIRE, 4-WIRE COMPRESSION (SEE PART 01000) OR COMPRESSION LUG (SEE PART 01000). ALL OTHER CONNECTIONS TO STEEL SURFACES SHALL USE LUG-TYPE CONNECTIONS.
3. MECHANICALLY BOND ANTENNA MOUNTS WITH #4 AWG, UNINSULATED COPPER CONDUCTORS.
4. ALL OVERHEAD WIRE SHALL COVER WITH VERBON WIRELESS SYSTEMS.
5. CONNECT GROUND CONDUCTORS TO EXISTING GROUNDING SYSTEMS AT WALLS, PARALLEL CABLE, AND TO ALL OVERHEAD WIRE CONNECTIONS. REMOVE PAINT, PRESERVATIVE, WET GESSO, ETC. TO ACHIEVE PROPER CONTACT.
6. CONNECT TO RAIL GROUND USING C-349 (G1773).
7. CONNECT TO INCLUDES USING BLUE GROUND LUGS.
8. COMPRESSION CONNECTIONS SHALL BE REINFORCED BY EXTERIOR WELD (CABLED) CONNECTIONS.
9. ALL OVERHEAD CONDUCTORS SHALL BE CONTACT WITH A CONNECTION BEHIND MIDDLE.
10. ALL GROUND CONNECTIONS MADE ONCE (ANTENNA & EXTERIOR) SHALL BE FORMED USING HIGH PRESS COMPACT.
11. ALL EXTERIOR CONNECTIONS TO THE GROUND ROD SHALL START AT THE TOP & HAVE A VERTICAL SPACER OF 4" FOR EACH ADDITIONAL CONNECTION.
12. ALL EXTERIOR GROUND CONNECTIONS SHALL BE CONTACT WITH A CONNECTION BEHIND MIDDLE.
13. ALL EXTERIOR GROUND CONNECTIONS SHALL BE CONTACT WITH A CONNECTION BEHIND MIDDLE.
14. MAXIMUM BONDING OF THE COMPLETE GROUND SYSTEM SHALL NOT EXCEED 4 OHMS. BONDING SHALL BE PROVIDED IN ACCORDANCE WITH PRESENT SPECIFICATION FOR FACILITY OPERATIONS. LONG RUN OF PROTECTIVE BONDING.
15. ANTENNA GROUND RISES SHALL BE FORMED BY VERBON & REINFORCED BY CONNECTIONS.

GROUNDING SYMBOLS



ABBREVIATIONS

AMP	DESCRIPTION
AWG	AMERICAN WIRE GAUGE
BCW	BARE COPPER WIRE
GPS	GLOBAL POSITIONING SYSTEM
PCS	PERSONAL COMMUNICATION SYSTEM
RFY	RAIL YARD
TYP.	TYPICAL
RSB	RED ANODIZED STEEL
ESB	ELECTRICAL STEEL
DWS	DRAWING
IRB	INTERIOR GROUND RING (IWR)
GBN	GENERATOR
CR	COAX CABLE
COE	COAX COUPLED GROUND BAR EXTERNAL
MGS	MASTER GROUND BAR
PGC	POST (SEE 40) POLYMER GELADGE CONDUIT
BNH	ENHANCED BONDING

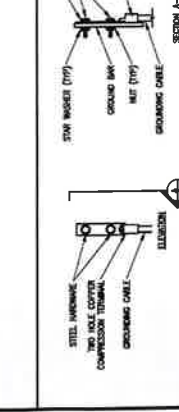
verizon
24 AVENUE ONE AND FLOOR
WALLINGFORD, CT 06492
(800) 744-7333

SBA
SBA COMMUNICATIONS CORP.
134 HANOVER ROAD, SUITE 105
WALLINGFORD, CT 06492
(860) 331-0770

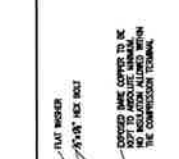
CHAPPELL ASSOCIATES, LLC
615 EXECUTIVE CENTER, WEST, SUITE 101
WALLINGFORD, CT 06492
(800) 481-7400
www.chapellassociates.com

STATE OF CONNECTICUT REGISTERED PROFESSIONAL ENGINEER
JAMES B. FITZGERALD No. 25897
10/14/14

GROUNDING NOTES & DETAILS



INSTALLATION OF GROUND WIRE TO GROUND BAR



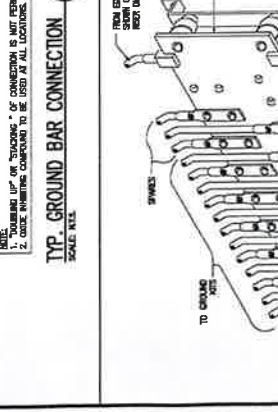
CONN. OF GROUND WIRE TO GROUND BAR (TOWER)



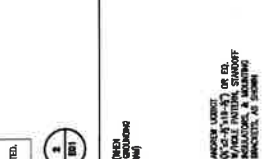
TYP. INTERIOR & EXTERIOR GROUND BAR



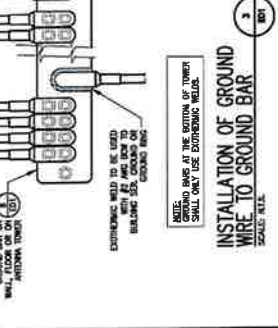
CONN. OF CABLE GROUND KIT TO ANTENNA CABLE



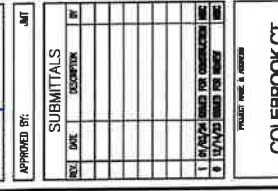
CONN. OF ANTENNA CABLE TO GROUND BAR



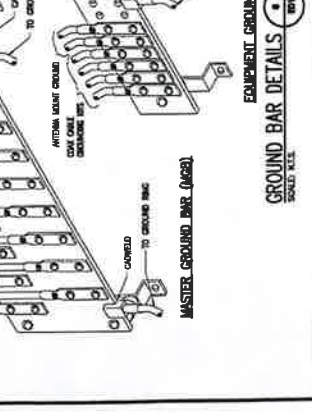
MASTER GROUND BAR (MGR)



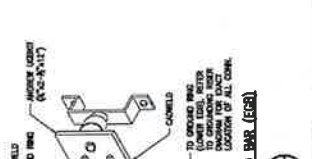
GROUNDING NOTES & DETAILS



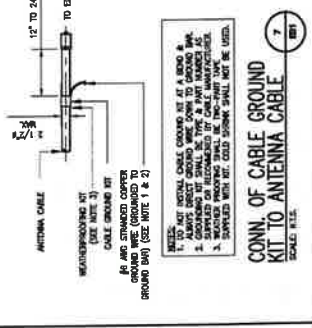
GROUNDING NOTES & DETAILS



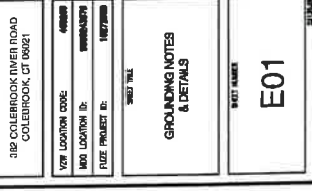
CONN. OF GROUND WIRE TO GROUND BAR (TOWER)



CONN. OF CABLE GROUND KIT TO ANTENNA CABLE



GROUNDING NOTES & DETAILS



COLERBROOK CT
38P COLERBROOK TOWER ROAD
COLERBROOK, CT 06421

VIEW LOCATION CODE: 400000
JOB LOCATION ID: 00000000
PLANT PROJECT ID: 10000000

GROUNDING NOTES & DETAILS

SCALE: 1/8" = 1'-0"

E01

NHH-85B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 3
Internal RET	High band (1) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W

NHH-85B-R2B

Protocol

3GPP/AISG 2.0 (Single RET)

Dimensions

Width

301 mm | 11.85 in

Depth

180 mm | 7.087 in

Length

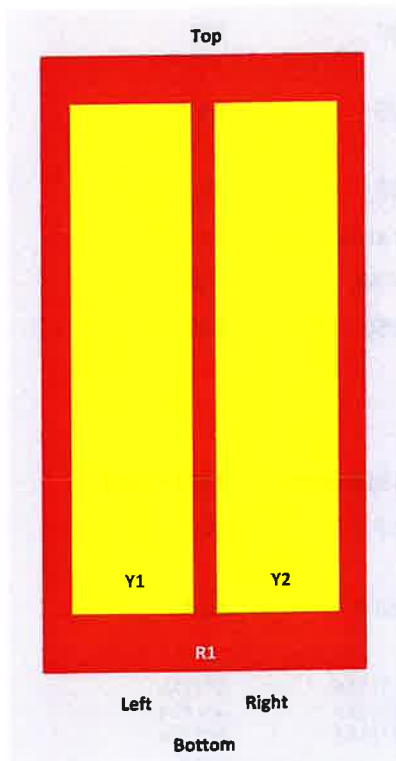
1851 mm | 72.874 in

Net Weight, without mounting kit

19.8 kg | 43.651 lb

Array Layout

NHH



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXX2
Y2	1695-2360	5-6		

View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance

50 ohm

Operating Frequency Band

1695 – 2360 MHz | 698 – 896 MHz

NHH-85B-R2B

Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.4	14.4	17.1	17.6	17.9	18.1
Beamwidth, Horizontal, degrees	82.5	87	80	79.3	78	78
Beamwidth, Vertical, degrees	12.3	11.2	5.7	5.3	5	4.6
Beam Tilt, degrees	0–12	0–12	0–8	0–8	0–8	0–8
USLS (First Lobe), dB	18	16	14	16	17	18
Front-to-Back Ratio at 180°, dB	28	26	34	30	30	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	25	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.1	14.1	16.6	17.3	17.6	17.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 14.1 6° 14.2 12° 14.0	0° 14.0 6° 14.3 12° 13.8	0° 16.6 4° 16.6 8° 16.7	0° 17.3 4° 17.4 8° 17.3	0° 17.6 4° 17.6 8° 17.5	0° 17.6 4° 17.8 8° 17.6
Beamwidth, Horizontal Tolerance, degrees	±1.8	±2	±4.8	±4.0	±4.0	±2.6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.2	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	27	26	25	26
CPR at Boresight, dB	21	22	19	19	19	22

NHH-85B-R2B

CPR at Sector, dB	20	20	15	17	17	16
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Mechanical Specifications

Effective Projective Area (EPA), frontal	0.27 m ² 2.906 ft ²
Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Wind Loading @ Velocity, frontal	283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	545.0 N @ 150 km/h (122.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	380 mm 14.961 in
Depth, packed	295 mm 11.614 in
Length, packed	1973 mm 77.677 in
Weight, gross	31.1 kg 68.564 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



Included Products

BSAMNT-3	–	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
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* Footnotes

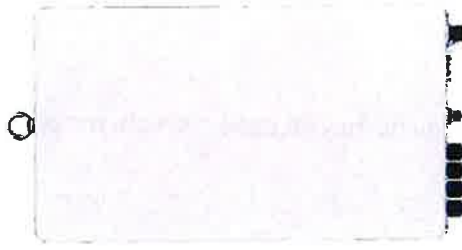
Performance Note	Severe environmental conditions may degrade optimum performance
-------------------------	---

C-band 64T64R

Gen 2

SAMSUNG

Gen 2 : Higher conducted power ratio 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 MIMO Dimensions	
Size (WXHXD)	400 x 73.4 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	200MHz ready/40/60/80/100 MHz
# of Carriers	2 carriers
Layer	DL : 16L, UL : 16RX (8L)
RF Chain	64T64R
Antennas Configuration	4V16H with 192 AE
ERP	80.5 dBm @320W (55 dBm + 25.5 dB)
Conductive Power Spectrum Analyzer	320W
RX Sensitivity	TX/RX support
Modulation	Typical -97.8dBm @1Rx, -18.36MHz with 30kHz,5TRBs
Function Split	DL 256QAM support, (DL 1024QAM with 1-2dB power back-off)
Input Power	DL/UL option 7-2x
Power Consumption	-48 VDC (-38 VDC to -57 VDC)
Size (WHD)	1,287W (100% load, room temp.)
Volume	400 x 73.4 x 140 mm (15.75 x 28.90 x 5.51 Inch)
Weight	41.1L
Operating Temperature	26kg (57.3 lb)
Cooling	-40°C - 55°C (w/o solar load)
Unwanted Emission	Natural convection
Optic Interface	3GPP 38.104
Mounting Options	FCC 47 CFR 27.53 : < -13dBm/MHz
NB-to-T	< -40 dBm/MHz @ above 4 GHz
External Alarm	< -50 dBm /MHz @ 4,040 ~ 4,050 MHz
Fronthaul Interface	< -60 dBm /MHz @ above 4,050 MHz
	15km, 4 ports (25Gbps x4), SFP28, single mode, Bi-di (Option: Duplex)
	Pole, wall
	Not support
	4RX
	eCPRI

SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage
samsungnetworks.com

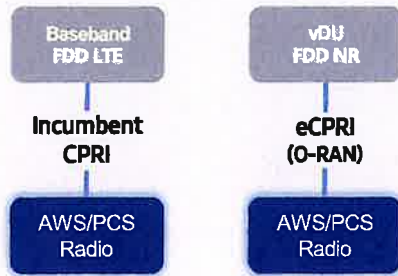


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

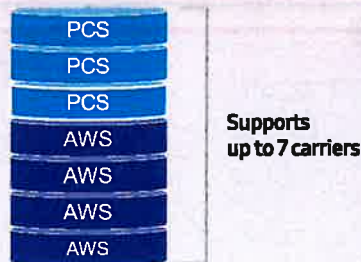
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

Item	Specification
Tech	LTE/ NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

700/850 4T4R Macro 320W ORU - New Filter (RF4461d-13A)

SAMSUNG

Specifications



Item	Specification
Air Interface	LTE, NR (HW resource ready)
Band	Band13 (700MHz) DL: 746~756MHz UL: 777~787MHz
Frequency	DL: 869~894MHz UL: 824~849MHz
18W	25MHz
OBW	25MHz
Carrier Bandwidth	LTE/NR 5*/10MHz
# of carriers	2C*
Total # of carriers	4C + B13 (SDL) 1C 3C
RF Chain	4T4R/2T4R/2T2R/1T2R 2T2R+2T2R bi-sector Total : 320W
RF Output Power	4 x 40W or 2 x 60W
Spectrum Analyzer	TX/RX Support
RX Sensitivity	Typ. -104.5dBm @1Rx (25RBW, 5MHz)
Modulation	256QAM support, (1024QAM with 1~2dB power back-off) -48VDC (-38VDC to -57VDC)
Input Power	1.165 Watt @ 100% RF load, room temperature
Power Consumption	380 x 380 x 260 mm (14.96 x 14.96 x 10.23 inch)
Size (WHD)	37.5 L
Volume	35.9 kg (79.1 lb)
Weight (w/o Solar Shield & finger guard)	-40°C (-40°F) ~ 55°C (131°F) (Without solar load)
Operating Temperature	Natural convection
Cooling	3GPP 36.104 FCC 47 CFR 27.53 c, f)
Unwanted Emission	-69 dBm/100 kHz per path @ 896 ~901MHz 3GPP 36.104 FCC 47 CFR 22.917
CPRI Cascade	Not supported
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP+, single mode, Duplex (Option: Bi-di)
RET & TMA Interface	AISG 3.0
Bias-T	4 ports (2 ports per band) Pole, wall
Mounting Options	2G8+2I8 or 4I8
NB-IOT	Support
PIM Cancellation	2SA-2GB or 2GB+2I8 or 4GB
# of antenna port	4
External Alarm	4
Fronthaul Interface	Opt. 8 CPRI / Opt. 7-2x selectable (not simultaneous support)
CPRI compression	Not Support

* 5MHz supporting in B13(700MHz) depends on 3Gpp std. and UE capability.
External filters in interferer and victim sides for Mexican boarder to support 5MHz service need to be considered
** Finger guard is not needed

ATTACHMENT 3



C Squared Systems, LLC
65 Dartmouth Drive
Auburn, NH 03032
(603) 644-2800

support@csquaredsystems.com

Calculated Radio Frequency Emissions Report



Colebrook CT

382 Colebrook River Road, Colebrook, CT 06021

January 12, 2024

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1. Introduction..... 1

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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 127' on an existing monopole tower located at 382 Colebrook River Road in Colebrook, CT. The coordinates of the tower are 41° 59' 31.92" N, 73° 02' 22.98" W.

Verizon is proposing the following:

- 1) Install nine (9) multi-band antennas, three (3) per sector to support its commercial LTE and 5G network.

This report considers the planned antenna configuration for Verizon¹ as well as existing antenna configuration for AT&T², and T-Mobile³ to derive the resulting % MPE of its proposed modification.

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/cm²). 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.

¹ As referenced to Verizon's Radio Frequency Design Sheet updated 11/27/2023.

² As referenced to AT&T's Connecticut Siting Council Notice of Exempt Modification – 382 Colebrook River Road, Colebrook, Connecticut, dated October 25, 2019.

³ As referenced to T-Mobile's Connecticut Siting Council Exempt Modification Application – 382 Colebrook River Road, Colebrook, Connecticut, dated August 12, 2022

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 / 0°	700	160	14.4	4407	NHH-85B-R2B	82.5	0	6.07	127
		850	160	14.4	4407		87			
		1900	160	17.6	9207		79.3			
		2100	240	17.9	14798		78			
		3700	320	25.5	113540	MT6413-77A	-	0	-	127
	Beta / 120°	700	160	14.4	4407	NHH-85B-R2B	82.5	0	6.07	127
		850	160	14.4	4407		87			
		1900	160	17.6	9207		79.3			
		2100	240	17.9	14798		78			
		3700	320	25.5	113540	MT6413-77A	-	0	-	127
	Gamma / 240°	700	160	14.4	4407	NHH-85B-R2B	82.5	0	6.07	127
		850	160	14.4	4407		87			
		1900	160	17.6	9207		79.3			
		2100	240	17.9	14798		78			
		3700	320	25.5	113540	MT6413-77A	-	0	-	127

Table 1: Proposed Antenna Inventory⁴⁵

⁴ Antenna heights are in reference to Verizon’s Radio Frequency Design Sheet updated 11/27/2023.

⁵ 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 ± 5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

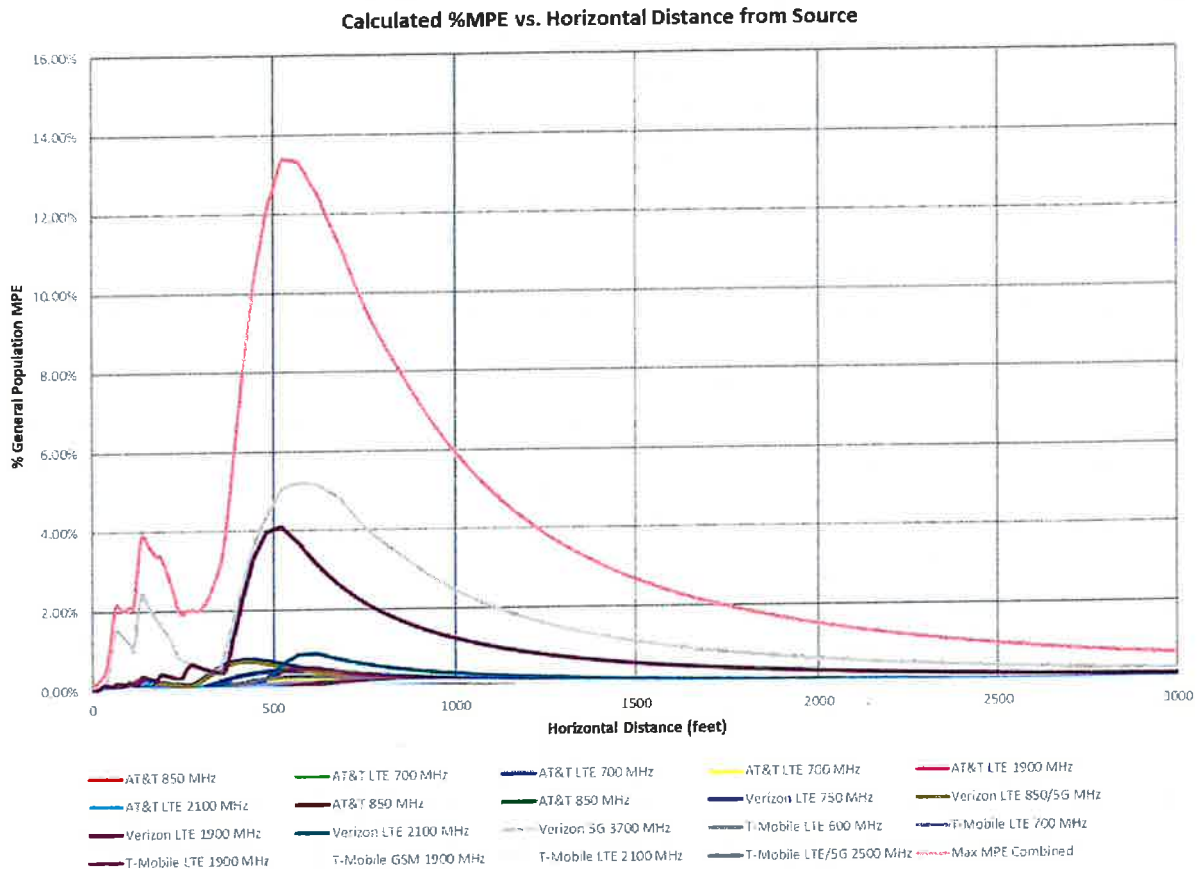


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (13.40% of the General Population limit) is calculated to occur at a horizontal distance of 525 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 525 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 ²)	Limit (mW/cm ²)	% MPE
AT&T 850 MHz	1	20.0	150.0	525	0.000052	0.567	0.01%
AT&T 850 MHz	1	80.0	150.0	525	0.000571	0.567	0.10%
AT&T 850 MHz	1	80.0	150.0	525	0.000571	0.567	0.10%
AT&T LTE 1900 MHz	1	140.0	150.0	525	0.000475	1.000	0.05%
AT&T LTE 2100 MHz	1	120.0	150.0	525	0.000322	1.000	0.03%
AT&T LTE 700 MHz	1	260.0	150.0	525	0.002132	0.467	0.46%
AT&T LTE 700 MHz	1	260.0	150.0	525	0.002132	0.467	0.46%
AT&T LTE 700 MHz	1	130.0	150.0	525	0.001066	0.467	0.23%
T-Mobile GSM 1900 MHz	1	15.0	117.0	525	0.000048	1.000	0.00%
T Mobile LTE 1900 MHz	1	160.0	117.0	525	0.000511	1.000	0.05%
T-Mobile LTE 2100 MHz	1	160.0	140.0	525	0.000240	1.000	0.02%
T-Mobile LTE 600 MHz	1	80.0	117.0	525	0.001206	0.400	0.30%
T-Mobile LTE 700 MHz	1	40.0	117.0	525	0.000709	0.467	0.15%
T-Mobile LTE/5G 2500 MHz	1	160.0	117.0	525	0.040695	1.000	4.07%
Verizon 5G 3700 MHz	1	320.0	127.0	525	0.050706	1.000	5.07%
Verizon LTE 1900 MHz	1	160.0	127.0	525	0.004481	1.000	0.45%
Verizon LTE 2100 MHz	1	240.0	127.0	525	0.006410	1.000	0.64%
Verizon LTE 750 MHz	1	160.0	127.0	525	0.003195	0.500	0.64%
Verizon LTE 850/5G MHz	1	160.0	127.0	525	0.003201	0.567	0.56%
Total							13.40%

Table 2: Maximum Percent of General Population Exposure Values⁶

⁶ In the case where antenna pattern data was unavailable from the manufacturer, generic antenna pattern was used based on the frequency, bandwidth and gain of the antenna.

6. Conclusion

The above analysis verifies that RF exposure levels from the site with Verizon's proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **13.40%** of the FCC limit (General Population/Uncontrolled). This maximum cumulative percent of MPE value is calculated to occur 525 feet away from the site.

7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.



Report Prepared By: Ram Acharya
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C Squared Systems, LLC

January 12, 2024
Date



Reviewed/Approved By: Martin Lavin
Senior RF Engineer
C Squared Systems, LLC

January 12, 2024
Date

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

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

(A) Limits for Occupational/Controlled Exposure⁷

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	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 Exposure⁸

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	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

⁷ 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.

⁸ 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.

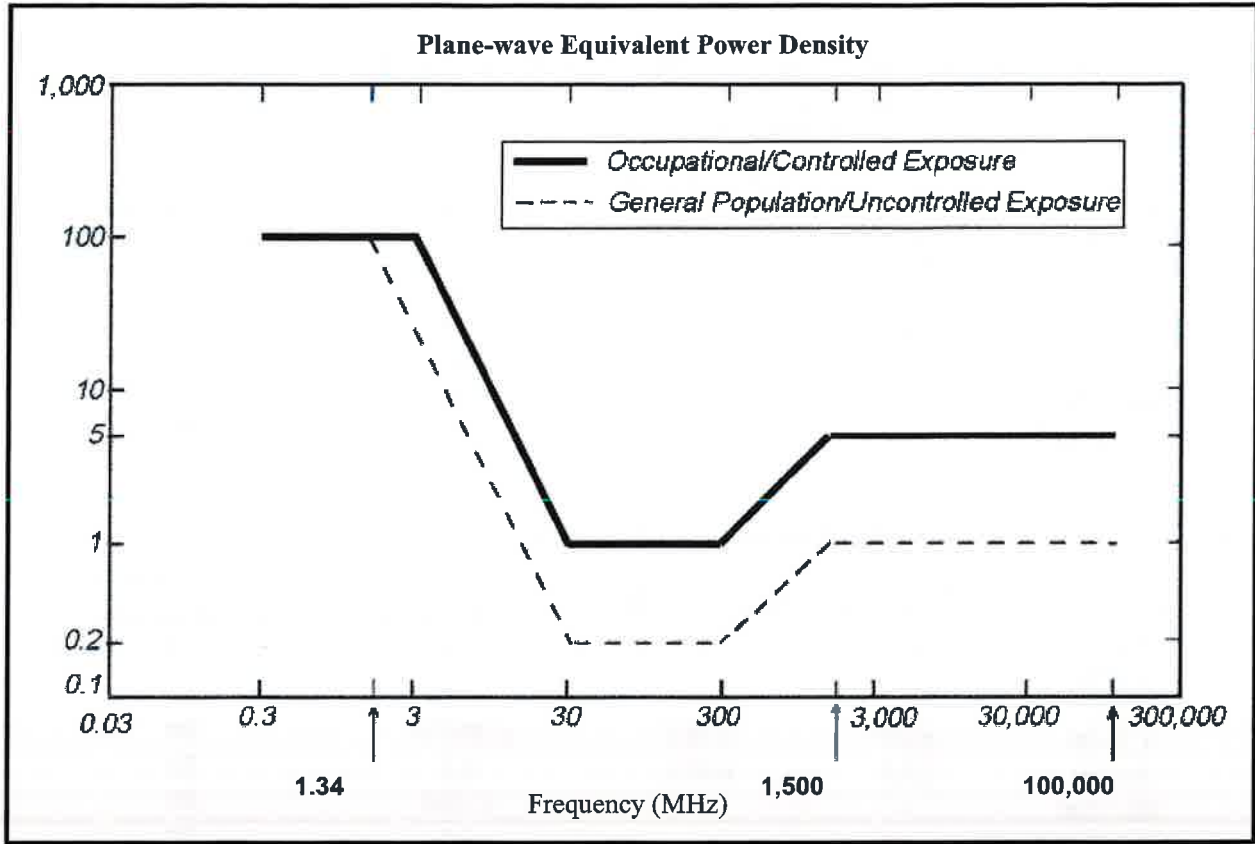
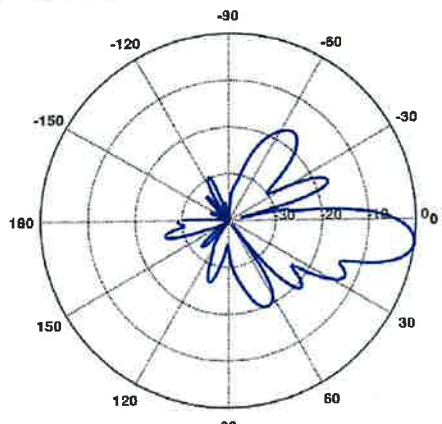
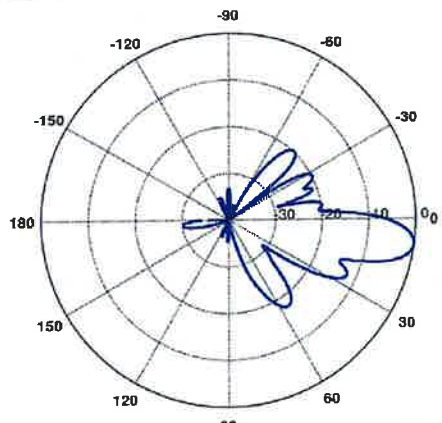
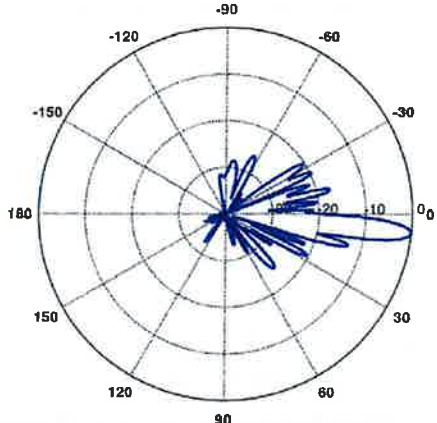
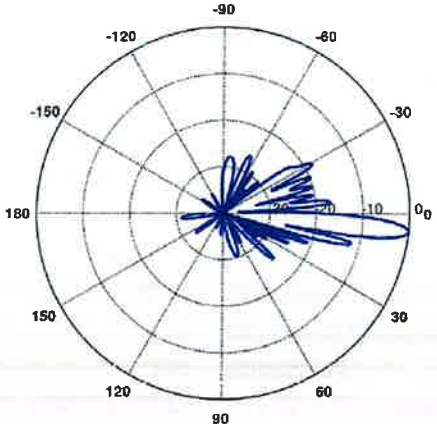


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns

<p>750 MHz</p> <p>Manufacturer: COMMSCOPE Model #: NHH-85B-R2B Frequency Band: 698-806 MHz Gain: 14.4 dBi Vertical Beamwidth: 12.3° Horizontal Beamwidth: 82.5° Polarization: ±45° Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	
<p>885 MHz</p> <p>Manufacturer: COMMSCOPE Model #: NHH-85B-R2B Frequency Band: 806-896 MHz Gain: 14.4 dBi Vertical Beamwidth: 11.2° Horizontal Beamwidth: 87° Polarization: ±45° Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	

<p>1900 MHz</p> <p>Manufacturer: COMMSCOPE Model #: NHH-85B-R2B Frequency Band: 1850-1990 MHz Gain: 17.6 dBi Vertical Beamwidth: 5.3° Horizontal Beamwidth: 79.3° Polarization: ±45° Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	
<p>2100 MHz</p> <p>Manufacturer: COMMSCOPE Model #: NHH-85B-R2B Frequency Band: 1920-2200 MHz Gain: 17.9 dBi Vertical Beamwidth: 5° Horizontal Beamwidth: 78° Polarization: ±45° Dimensions (L x W x D): 72.87" x 7.08" x 11.85"</p>	

ATTACHMENT 4



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Structural Analysis Report

Client: Verizon

Client Site ID / Name: 5000243879 / Colebrook_CT
Application #: 236313, v1

SBA Site ID / Name: CT13613-A / Johnson

150 ft Monopole

382 Colebrook River Rd
Colebrook, Connecticut 06021
Lat: 41.992083, Long: -73.039805

Project number: CT13613-VZ-120623

Analysis Results

Tower	41.2%	Pass
Foundation	26.0%	Pass

Change in tower stress due to mount modification / replacement	0.67%
--	-------

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December 7, 2023



12/08/23

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Introduction

The purpose of this report is to summarize the analysis results on the 150 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document
Tower design/drawings	Paul J. Ford, Job #29205-0113, 5/24/2005
Foundation drawings	Paul J. Ford, Job #29205-0113, 5/24/2005
Geotechnical report	JGI Eastern Inc, Project # 05268G, 5/16/2005
Modification drawings	N/A
Carrier MA	Colliers, Project # 21777227 (Rev 2), dated 11/13/2023
Latest SA	TES, Project # 132277, 07/29/2022 (Redlined)

Analysis Criteria

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut/Litchfield/Colebrook
Governing Codes	ANSI/TIA/EIA 222-H, 2021 IBC, 2022 Connecticut State Building Code
Ultimate Wind Speed (3-Sec gust)	115.0 mph
Wind Speed with Ice (3-Sec gust)	50 mph
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	1.00"
Risk Category	II
Exposure Category	B
Topographic Category	1
Crest Height	0 ft
Ground Elevation	1154.96 ft.
Seismic Parameter S_s	0.166
Seismic Parameter S_1	0.054

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

Appurtenance Loading

Existing Loading:

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	139.0	2	KMW AM-X-CD-16-65-00T-RET – Panel	Low Profile Platform	(12) 1 5/8" (1) 3/4" DC (1) 7/16" Fiber	AT&T
2		6	Powerwave 7770 – Panel			
3		1	Kathrein 800 10764 – Panel			
4		6	Ericsson RRUS 11			
5		6	Powerwave LGP 21401			
6		6	Powerwave LGP 13519			
7		1	Raycap DC6-48-60-18-8F - SP			
8		1	Commscope ABT-DFDM-ADBH - Bias T			
9	127.0	6	Commscope NHH-85B-R2B – Panel	Low Profile Platform	(11) 1 5/8" (1) 1 5/8" Hybrid	Verizon
10		3	Samsung MT6407-77A – Panel			
11		3	Commscope TD-850B-LTE78-43			
12		3	Samsung RFV01U-D2A – RRU			
13		3	Samsung RFV01U-D1A – RRU			
14		1	RFS DB-C1-12C-24AB-0Z – OVP			
19	117.0	4	Commscope VV-65B-R1 – Panel	Platform w/ Handrails	(4) 1 5/8" Fiber (3) 1.9" Fiber	T-Mobile
20		4	APXVAALL24_43-U-NA20 - Panel			
21		4	Ericsson AIR6419 B41 – Panel			
22		4	Ericsson 4460 B25 + B66 – RRU			
23		4	Ericsson 4480 B71 + B85 – RRU			

Note: AT&T loading includes FirstNET equipment

Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 236313, v1 from Verizon and is listed in Table 4.

Table 4 Proposed Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
9	127.0	6	Commscope NHH-85B-R2B – Panel	Low Profile Platform + (3) Side by Side Mounts (Commscope BSAMNT- SBS-1-2)	(11) 1 5/8" (1) 1 5/8" Hybrid (2) 1-1/4" Hybriflex LI	Verizon
15		3	Samsung MT6413-77A – Panel			
11		3	Commscope TD-850B-LTE78-43			
16		3	Samsung B2/B66A RRH ORAN (RF4439d-25A) – RRU			
17		3	Samsung RF4461d-13A – RRU			
18		1	Raycap RVZDC-6627-PF-48 – OVP			

Analysis Results

Tower

The results of the structural analysis are shown below in table 5. Additional information for the tower analysis is provided within the Appendix.

Table 5 Tower Analysis Summary

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	41.2%	31.3%	36.5%
Pass/Fail	Pass	Pass	Pass

Foundation

The results of the foundation analysis are shown below in table 6. Additional information for the foundation analysis is provided within the Appendix.

Table 6 Foundation Analysis Summary

Structural Component	Max Usage (%)	Analysis Result
Foundation	26.0%	Pass

Conclusions

Based on the analysis results, the existing tower and foundation were found to be **sufficient** to safely support the equipment listed in this analysis. No modification to the tower and foundation is needed at this time.

Installation Requirements

This analysis was performed under the assumption that the carrier will place the proposed equipment and feed lines at the installation height listed in Table 4 and in accordance with the coax layout shown. TMAs and RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met the carrier must notify SBA Communications Corporation engineers for approval of an alternative placement.

Assumptions and Limitations

Assumptions

This analysis was completed based on the following assumptions:

- Tower and foundation were built in accordance to manufacturer specifications.
- Tower and foundation has been properly maintained in accordance with the manufacturer's specifications
- All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion
- Welds and bolts are assumed able to carry their intended original design loads.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.
- This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

Limitations

The computer generated analysis performed by the tower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.

Appendix

Usage Diagram - Max Ratio 41.16% at 51.0ft

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)

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

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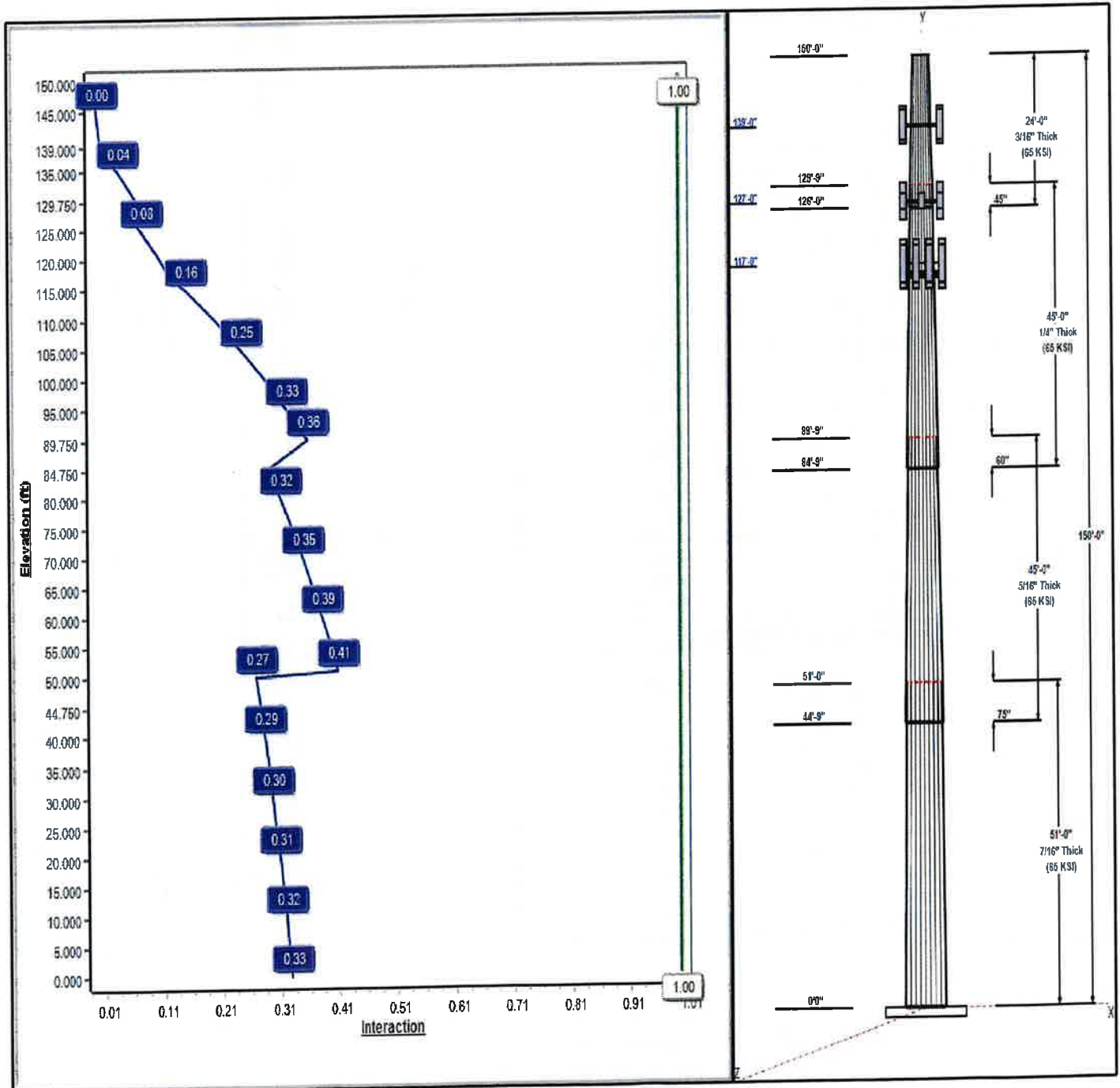
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 115 mph Wind



Iterations: 22

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Structure: CT13613-A-VZW

Type: Tapered
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.26000

12/7/2023

Page: 2



Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	51.00	46.74	60.00	0.438		0.26000	65
2	45.00	37.29	48.99	0.313	Slip	0.26000	65
3	45.00	27.39	39.09	0.250	Slip	0.26000	65
4	24.00	22.50	28.74	0.188	Slip	0.26000	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
139.00	139.00	6	Powerwave 7770	AT&T
139.00	139.00	1	Kathrein 800 10764	AT&T
139.00	139.00	2	KMW	AT&T
139.00	139.00	6	Powerwave LGP 21401	AT&T
139.00	139.00	6	Powerwave LGP 13519	AT&T
139.00	139.00	6	Ericsson RRUS 11	AT&T
139.00	139.00	1	Raycap DC6-48-60-18-8F	AT&T
139.00	139.00	1	Commscope	AT&T
139.00	139.00	1	Low Profile Platform	AT&T
139.00	139.00	12	Mount pipe	AT&T
127.00	127.00	6	Commscope	Verizon
127.00	127.00	3	Commscope	Verizon
127.00	127.00	3	Samsung MT6413-77A	Verizon
127.00	127.00	1	Low Profile Platform	Verizon
127.00	127.00	3	Samsung B2/B66A RRII	Verizon
127.00	127.00	3	Samsung RF4461d-13A	Verizon
127.00	127.00	1	Raycap	Verizon
117.00	117.00	4	VV-65B-R1	T-Mobile
117.00	117.00	4	APXVAALL24_43-U-NA20	T-Mobile
117.00	117.00	4	AIR6419 B41	T-Mobile
117.00	117.00	4	4460 B25 + B66	T-Mobile
117.00	117.00	4	Ericsson 4480 B71 + B85	T-Mobile
117.00	117.00	1	SitePro F4P-10W	T-Mobile
117.00	117.00	1	F4P-HRK10	T-Mobile
117.00	117.00	16	Mount pipes	T-Mobile

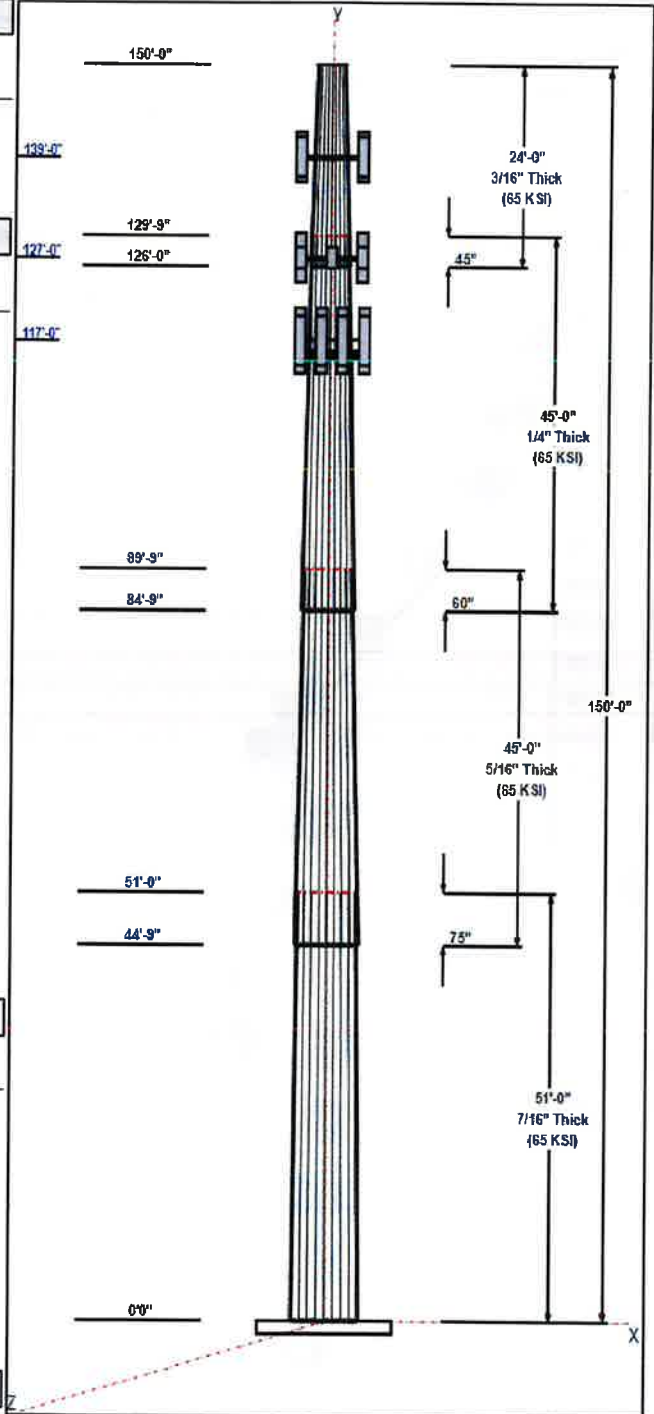
Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	150.00	Outside	Safety Cable	
0.00	150.00	Outside	Step bolts (ladder)	
0.00	139.00	Inside	1 5/8" Coax	AT&T
0.00	139.00	Inside	3/4" DC	AT&T
0.00	139.00	Inside	7/16" Fiber	AT&T
0.00	127.00	Inside	1 5/8" Coax	Verizon
0.00	127.00	Inside	1 5/8" Hybrid	Verizon
0.00	127.00	Inside	1-1/4" Hybriflex LI	Verizon
0.00	117.00	Inside	1 5/8" Fiber	T-Mobile
0.00	117.00	Inside	1.9" Fiber	T-Mobile

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Cluster

Base Plate



Structure: CT13613-A-VZW

Type: Tapered
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.26000

12/7/2023

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Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	66.0	50.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 115 mph Wind	2197.3	21.8	47.3
0.9D + 1.0W 115 mph Wind	2181.8	21.8	35.5
1.2D + 1.0Di + 1.0Wi 50 mph Wind	599.4	6.2	47.2
1.2D + 1.0Ev + 1.0Eh	101.2	0.8	48.7
0.9D + 1.0Ev + 1.0Eh	100.8	0.8	36.8
1.0D + 1.0W 60 mph Wind	532.7	5.3	39.4

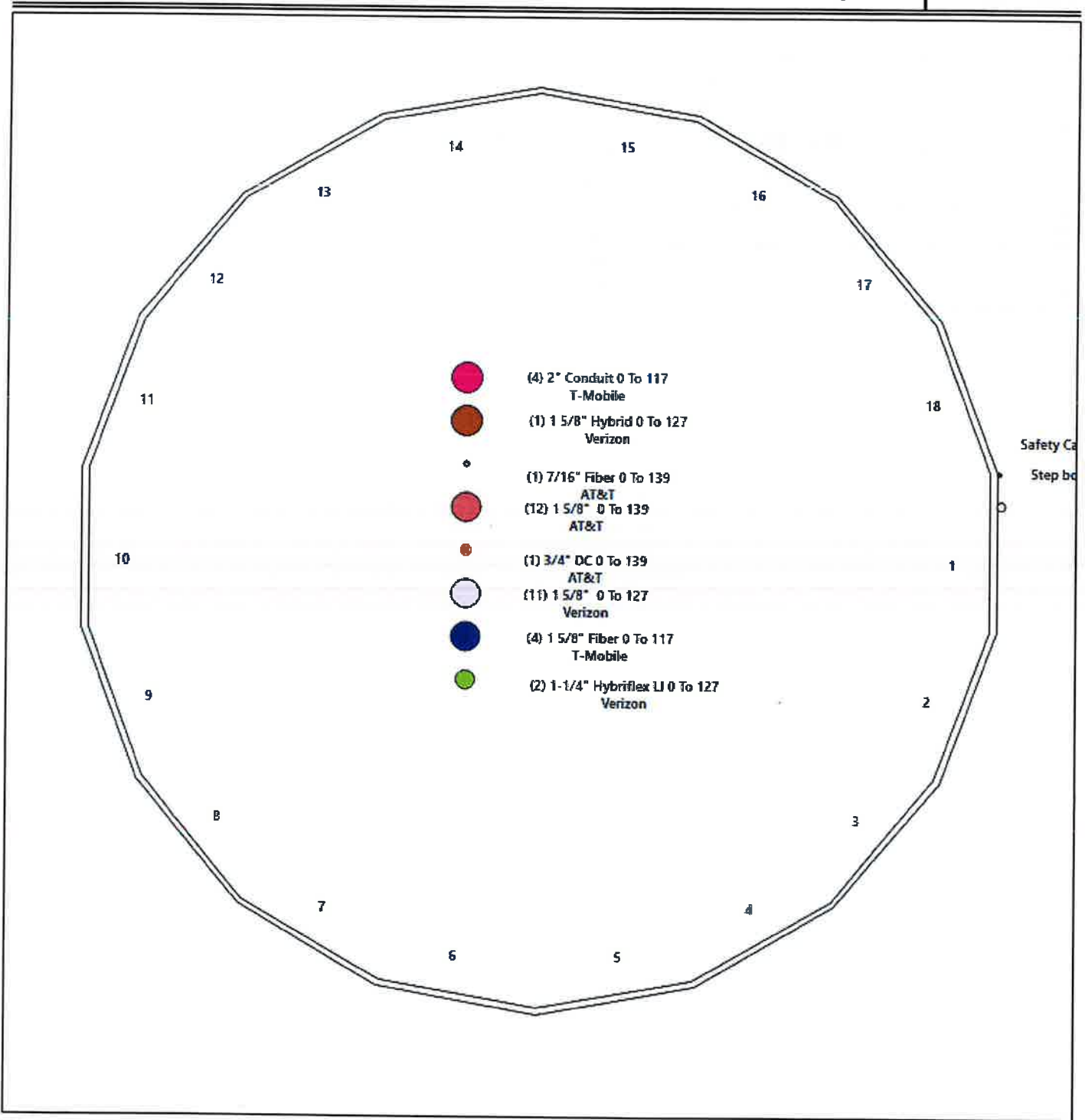
Structure: CT13613-A-VZW - Coax Line Placement

Type: Monopole
Site Name: Johnson
Height: 150.00 (ft)

12/7/2023



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Shaft Properties

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	51.000	0.4375	65		0.00	12,755
2	18	45.000	0.3125	65	Slip	75.00	6,504
3	18	45.000	0.2500	65	Slip	60.00	4,008
4	18	24.000	0.1875	65	Slip	45.00	1,236
Total Shaft Weight:							24,504

Sec. No.	Bottom						Top						Taper
	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	
1	60.00	0.00	82.71	37071.59	22.77	137.14	46.74	51.00	64.29	17415.4	17.43	106.8	0.260000
2	48.99	44.75	48.28	14453.71	26.23	156.77	37.29	89.75	36.68	6335.88	19.63	119.3	0.260000
3	39.09	84.75	30.82	5873.84	26.16	156.36	27.39	129.75	21.53	2004.07	17.91	109.5	0.260000
4	28.74	126.0	16.99	1750.16	25.62	153.28	22.50	150.00	13.28	835.20	19.75	120.0	0.260000

Load Summary

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	139.00	Powerwave 7770	6	35.00	5.50	0.73	128.06	6.214	0.73	0.00	0.00
2	139.00	Kathrein 800 10764	1	40.80	5.88	1.00	125.16	7.298	1.00	0.00	0.00
3	139.00	KMW AM-X-CD-16-65-00T-RET	2	48.50	8.02	0.90	155.86	9.868	0.90	0.00	0.00
4	139.00	Powerwave LGP 21401	6	17.50	0.82	0.67	31.49	1.079	0.67	0.00	0.00
5	139.00	Powerwave LGP 13519	6	5.30	0.29	0.67	11.02	0.451	0.67	0.00	0.00
6	139.00	Ericsson RRUS 11	6	50.70	2.52	0.67	97.53	3.102	0.67	0.00	0.00
7	139.00	Raycap DC6-48-60-18-8F - SP	1	31.80	0.92	1.00	72.70	1.210	1.00	0.00	0.00
8	139.00	Commscope ABT-DFDM-ADBH -	1	1.10	0.05	0.97	2.35	0.135	0.98	0.00	0.00
9	139.00	Low Profile Platform	1	1349.00	17.49	1.00	2283.57	25.568	1.00	0.00	0.00
10	139.00	Mount pipe	12	30.32	1.60	1.00	51.33	2.339	1.00	0.00	0.00
11	127.00	Commscope NHH-85B-R2B	6	43.00	8.17	0.83	168.63	8.996	0.84	0.00	0.00
12	127.00	Commscope TD-850B-LTE78-43	3	52.90	1.96	0.50	84.40	2.323	0.50	0.00	0.00
13	127.00	Samsung MT6413-77A	3	57.30	3.79	0.69	116.83	4.309	0.71	0.00	0.00
14	127.00	Low Profile Platform	1	1500.00	28.90	1.00	2358.20	44.112	1.00	0.00	0.00
15	127.00	Samsung B2/B66A RRH ORAN	3	74.70	1.87	0.67	107.83	2.226	0.67	0.00	0.00
16	127.00	Samsung RF4461d-13A	3	79.10	1.87	0.67	112.44	2.226	0.67	0.00	0.00
17	127.00	Raycap RVZDC-6627-PF-48	1	32.00	4.06	1.00	106.79	4.595	1.00	0.00	0.00
18	117.00	VV-65B-R1	4	27.90	7.90	0.74	132.69	8.713	0.74	0.00	0.00
19	117.00	APXVAALL24_43-U-NA20	4	122.80	20.24	0.73	388.89	21.460	0.73	0.00	0.00
20	117.00	AIR6419 B41	4	83.30	5.65	0.71	155.41	6.268	0.71	0.00	0.00
21	117.00	4460 B25 + B66	4	104.00	2.85	0.67	148.62	3.289	0.67	0.00	0.00
22	117.00	Ericsson 4480 B71 + B85	4	93.00	2.85	0.67	139.78	3.289	0.67	0.00	0.00
23	117.00	SitePro F4P-10W	1	2396.00	45.26	1.00	4027.57	65.807	1.00	0.00	0.00
24	117.00	F4P-HRK10	1	487.00	8.26	1.00	818.63	12.010	1.00	0.00	0.00
25	117.00	Mount pipes	16	30.32	1.38	1.00	50.97	2.006	1.00	0.00	0.00
Totals:			100	10,208.66			19,284.60				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	150.00	(1) Safety Cable	0.38	Outside
0.00	150.00	(1) Step bolts (ladder)	0.63	Outside
0.00	139.00	(12) 1 5/8" Coax	0.00	Inside
0.00	139.00	(1) 3/4" DC	0.00	Inside
0.00	139.00	(1) 7/16" Fiber	0.00	Inside
0.00	127.00	(11) 1 5/8" Coax	0.00	Inside
0.00	127.00	(1) 1 5/8" Hybrid	0.00	Inside
0.00	127.00	(2) 1-1/4" Hybriflex LI	0.00	Inside
0.00	117.00	(4) 1 5/8" Fiber	0.00	Inside
0.00	117.00	(3) 1.9" Fiber	0.00	Inside

Shaft Section Properties

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

12/7/2023



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Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in ³)	Weight (lb)
0.00		0.4375	60.000	82.707	37071.6	22.77	137.14	74.6	1216.	0.0
5.00		0.4375	58.700	80.902	34696.8	22.25	134.17	75.2	1164.	1391.8
10.00		0.4375	57.400	79.097	32425.7	21.72	131.20	75.8	1112.	1361.1
15.00		0.4375	56.100	77.292	30255.9	21.20	128.23	76.5	1062.	1330.4
20.00		0.4375	54.800	75.486	28185.2	20.68	125.26	77.1	1013.	1299.7
25.00		0.4375	53.500	73.681	26211.1	20.15	122.29	77.7	965.0	1269.0
30.00		0.4375	52.200	71.876	24331.5	19.63	119.31	78.3	918.1	1238.2
35.00		0.4375	50.900	70.071	22543.9	19.10	116.34	78.9	872.4	1207.5
40.00		0.4375	49.600	68.266	20846.1	18.58	113.37	79.5	827.8	1176.8
44.75	Bot - Section 2	0.4375	48.365	66.551	19314.2	18.06	110.55	80.1	786.6	1089.5
45.00		0.4375	48.300	66.461	19235.7	18.06	110.40	80.2	784.4	97.6
50.00		0.4375	47.000	64.656	17710.5	17.53	107.43	80.8	742.2	1924.8
51.00	Top - Section 1	0.3125	47.365	46.669	13054.0	25.31	151.57	0.0	0.0	378.6
55.00		0.3125	46.325	45.637	12207.4	24.73	148.24	72.3	519.0	628.2
60.00		0.3125	45.025	44.348	11201.6	23.99	144.08	73.2	490.0	765.5
65.00		0.3125	43.725	43.058	10252.7	23.26	139.92	74.0	461.8	743.6
70.00		0.3125	42.425	41.769	9359.0	22.53	135.76	74.9	434.5	721.6
75.00		0.3125	41.125	40.479	8518.7	21.79	131.60	75.8	408.0	699.7
80.00		0.3125	39.825	39.190	7730.3	21.06	127.44	76.6	382.3	677.7
84.75	Bot - Section 3	0.3125	38.590	37.965	7027.9	20.36	123.49	77.4	358.7	623.5
85.00		0.3125	38.525	37.901	6992.2	20.33	123.28	77.5	357.5	58.5
89.75	Top - Section 2	0.2500	37.790	29.787	5303.6	25.24	151.16	0.0	0.0	1092.1
90.00		0.2500	37.725	29.735	5276.1	25.20	150.90	71.8	275.5	25.3
95.00		0.2500	36.425	28.704	4745.8	24.28	145.70	72.8	256.6	497.1
100.00		0.2500	35.125	27.672	4252.3	23.36	140.50	73.9	238.4	479.6
105.00		0.2500	33.825	26.641	3794.3	22.45	135.30	75.0	220.9	462.0
110.00		0.2500	32.525	25.609	3370.4	21.53	130.10	76.1	204.1	444.5
115.00		0.2500	31.225	24.578	2979.3	20.61	124.90	77.2	187.9	426.9
117.00		0.2500	30.705	24.165	2831.8	20.25	122.82	77.6	181.6	165.9
120.00		0.2500	29.925	23.546	2619.7	19.70	119.70	78.2	172.4	243.5
125.00		0.2500	28.625	22.515	2290.3	18.78	114.50	79.3	157.6	391.8
126.00	Bot - Section 4	0.2500	28.365	22.308	2227.9	18.60	113.46	79.5	154.7	76.3
127.00		0.2500	28.105	22.102	2166.7	18.41	112.42	79.7	151.8	133.1
127.75	Top - Section 3	0.1875	27.765	16.411	1576.9	24.70	148.08	0.0	0.0	359.7
129.75		0.1875	27.700	16.373	1565.8	24.64	147.73	72.4	111.3	13.9
130.00		0.1875	26.400	15.599	1354.2	23.42	140.80	73.9	101.0	272.0
135.00		0.1875	25.360	14.980	1199.3	22.44	135.25	75.0	93.1	208.1
139.00		0.1875	25.100	14.826	1162.5	22.19	133.87	75.3	91.2	50.7
140.00		0.1875	25.100	14.826	1162.5	22.19	133.87	75.3	91.2	245.7
145.00		0.1875	23.800	14.052	989.9	20.97	126.93	76.7	81.9	232.5
150.00		0.1875	22.500	13.278	835.2	19.75	120.00	78.2	73.1	232.5
										24504.2

Wind Loading - Shaft

Structure: CT13613-A-VZW

Code: TIA-222-H

12/7/2023

Site Name: Johnson

Exposure: B

Height: 150.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

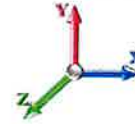
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Load Case: 1.2D + 1.0W 115 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 22

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	21.592	23.75	478.40	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	21.592	23.75	468.03	0.730	0.000	5.00	25.111	18.33	435.4	0.0	1670.2
10.00		1.00	0.70	21.592	23.75	457.67	0.730	0.000	5.00	24.561	17.93	425.8	0.0	1633.3
15.00		1.00	0.70	21.592	23.75	447.30	0.730	0.000	5.00	24.011	17.53	416.3	0.0	1596.5
20.00		1.00	0.70	21.592	23.75	436.93	0.730	0.000	5.00	23.461	17.13	406.8	0.0	1559.6
25.00		1.00	0.70	21.592	23.75	426.57	0.730	0.000	5.00	22.911	16.72	397.2	0.0	1522.8
30.00		1.00	0.70	21.611	23.77	416.38	0.730	0.000	5.00	22.361	16.32	388.0	0.0	1485.9
35.00		1.00	0.73	22.584	24.84	415.05	0.730	0.000	5.00	21.811	15.92	395.5	0.0	1449.0
40.00		1.00	0.76	23.462	25.81	412.24	0.730	0.000	5.00	21.260	15.52	400.5	0.0	1412.2
44.75 Bot - Section 2		1.00	0.79	24.226	26.65	408.47	0.730	0.000	4.75	19.688	14.37	383.0	0.0	1307.4
45.00		1.00	0.79	24.265	26.69	408.25	0.730	0.000	0.25	1.036	0.76	20.2	0.0	117.1
50.00		1.00	0.81	25.007	27.51	403.28	0.730	0.000	5.00	20.425	14.91	410.1	0.0	2309.7
51.00 Top - Section 1		1.00	0.82	25.148	27.66	402.19	0.730	0.000	1.00	4.019	2.93	81.2	0.0	454.4
55.00		1.00	0.83	25.697	28.27	402.94	0.730	0.000	4.00	15.856	11.57	327.2	0.0	753.8
60.00		1.00	0.85	26.344	28.98	396.53	0.730	0.000	5.00	19.325	14.11	408.8	0.0	918.6
65.00		1.00	0.87	26.953	29.65	389.51	0.730	0.000	5.00	18.775	13.71	406.3	0.0	892.3
70.00		1.00	0.89	27.530	30.28	381.95	0.730	0.000	5.00	18.225	13.30	402.9	0.0	865.9
75.00		1.00	0.91	28.078	30.89	373.92	0.730	0.000	5.00	17.675	12.90	398.5	0.0	839.6
80.00		1.00	0.93	28.600	31.46	365.45	0.730	0.000	5.00	17.125	12.50	393.3	0.0	813.3
84.75 Bot - Section 3		1.00	0.94	29.076	31.98	357.05	0.730	0.000	4.75	15.759	11.50	367.9	0.0	748.2
85.00		1.00	0.94	29.100	32.01	356.60	0.730	0.000	0.25	0.826	0.60	19.3	0.0	70.2
89.75 Top - Section 2		1.00	0.96	29.556	32.51	347.86	0.730	0.000	4.75	15.437	11.27	366.4	0.0	1310.5
90.00		1.00	0.96	29.579	32.54	352.05	0.730	0.000	0.25	0.799	0.58	19.0	0.0	30.4
95.00		1.00	0.97	30.040	33.04	342.56	0.730	0.000	5.00	15.686	11.45	378.4	0.0	596.6
100.00		1.00	0.99	30.483	33.53	332.76	0.730	0.000	5.00	15.136	11.05	370.5	0.0	575.5
105.00		1.00	1.00	30.911	34.00	322.69	0.730	0.000	5.00	14.586	10.65	362.1	0.0	554.4
110.00		1.00	1.02	31.325	34.46	312.35	0.730	0.000	5.00	14.036	10.25	353.1	0.0	533.4
115.00		1.00	1.03	31.725	34.90	301.78	0.730	0.000	5.00	13.486	9.84	343.6	0.0	512.3
117.00 Appurtenance(s)		1.00	1.03	31.882	35.07	297.49	0.730	0.000	2.00	5.240	3.83	134.2	0.0	199.0
120.00		1.00	1.04	32.113	35.32	290.98	0.730	0.000	3.00	7.696	5.62	198.4	0.0	292.2
125.00		1.00	1.05	32.490	35.74	279.97	0.730	0.000	5.00	12.386	9.04	323.1	0.0	470.2
126.00 Bot - Section 4		1.00	1.06	32.564	35.82	277.74	0.730	0.000	1.00	2.411	1.76	63.1	0.0	91.5
127.00 Appurtenance(s)		1.00	1.06	32.638	35.90	275.50	0.730	0.000	1.00	2.421	1.77	63.4	0.0	159.7
129.75 Top - Section 3		1.00	1.06	32.838	36.12	269.32	0.730	0.000	2.75	6.544	4.78	172.6	0.0	431.7
130.00		1.00	1.07	32.856	36.14	272.44	0.730	0.000	0.25	0.587	0.43	15.5	0.0	16.7
135.00		1.00	1.08	33.212	36.53	261.06	0.730	0.000	5.00	11.445	8.35	305.2	0.0	326.4
139.00 Appurtenance(s)		1.00	1.09	33.491	36.84	251.82	0.730	0.000	4.00	8.760	6.39	235.6	0.0	249.7
140.00		1.00	1.09	33.559	36.92	249.50	0.730	0.000	1.00	2.135	1.56	57.5	0.0	60.9
145.00		1.00	1.10	33.897	37.29	237.76	0.730	0.000	5.00	10.345	7.55	281.6	0.0	294.8
150.00		1.00	1.11	34.227	37.65	225.87	0.730	0.000	5.00	9.795	7.15	269.2	0.0	279.0
Totals:									150.00			11,196.7		29,405.0

Discrete Appurtenance Forces

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 115 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 22

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	139.00	Powerwave LGP 13519	6	33.491	36.840	0.50	0.75	0.87	38.16	0.000	0.000	32.21	0.00	0.00
2	139.00	Powerwave 7770	6	33.491	36.840	0.55	0.75	18.07	252.00	0.000	0.000	665.60	0.00	0.00
3	139.00	Kathrein 800 10764	1	33.491	36.840	0.75	0.75	4.41	48.96	0.000	0.000	162.46	0.00	0.00
4	139.00	KMW	2	33.491	36.840	0.68	0.75	10.83	116.40	0.000	0.000	398.86	0.00	0.00
5	139.00	Powerwave LGP 21401	6	33.491	36.840	0.50	0.75	2.47	126.00	0.000	0.000	91.08	0.00	0.00
6	139.00	Mount pipe	12	33.491	36.840	0.75	0.75	14.40	436.61	0.000	0.000	530.49	0.00	0.00
7	139.00	Ericsson RRUS 11	6	33.491	36.840	0.50	0.75	7.60	365.04	0.000	0.000	279.90	0.00	0.00
8	139.00	Raycap DC6-48-60-18-8F	1	33.491	36.840	0.75	0.75	0.69	38.16	0.000	0.000	25.42	0.00	0.00
9	139.00	Commscope	1	33.491	36.840	0.73	0.75	0.04	1.32	0.000	0.000	1.34	0.00	0.00
10	139.00	Low Profile Platform	1	33.491	36.840	1.00	1.00	17.49	1618.80	0.000	0.000	644.33	0.00	0.00
11	127.00	Raycap	1	32.638	35.902	0.75	0.75	3.04	38.40	0.000	0.000	109.32	0.00	0.00
12	127.00	Samsung RF4461d-13A	3	32.638	35.902	0.50	0.75	2.82	284.76	0.000	0.000	101.21	0.00	0.00
13	127.00	Samsung B2/B66A RRH	3	32.638	35.902	0.50	0.75	2.82	268.92	0.000	0.000	101.21	0.00	0.00
14	127.00	Samsung MT6413-77A	3	32.638	35.902	0.52	0.75	5.88	206.28	0.000	0.000	211.24	0.00	0.00
15	127.00	Commscope	3	32.638	35.902	0.38	0.75	2.21	190.44	0.000	0.000	79.16	0.00	0.00
16	127.00	Commscope	6	32.638	35.902	0.62	0.75	30.51	309.60	0.000	0.000	1095.53	0.00	0.00
17	127.00	Low Profile Platform	1	32.638	35.902	1.00	1.00	28.90	1800.00	0.000	0.000	1037.55	0.00	0.00
18	117.00	4460 B25 + B66	4	31.882	35.070	0.50	0.75	5.73	499.20	0.000	0.000	200.90	0.00	0.00
19	117.00	VV-65B-R1	4	31.882	35.070	0.55	0.75	17.54	133.92	0.000	0.000	615.06	0.00	0.00
20	117.00	APXVAALL24_43-U-NA20	4	31.882	35.070	0.55	0.75	44.33	589.44	0.000	0.000	1554.50	0.00	0.00
21	117.00	AlR6419 B41	4	31.882	35.070	0.53	0.75	12.03	399.84	0.000	0.000	422.05	0.00	0.00
22	117.00	F4P-HRK10	1	31.882	35.070	0.75	0.75	6.20	584.40	0.000	0.000	217.26	0.00	0.00
23	117.00	Ericsson 4480 B71 + B85	4	31.882	35.070	0.50	0.75	5.73	446.40	0.000	0.000	200.90	0.00	0.00
24	117.00	SitePro F4P-10W	1	31.882	35.070	0.75	0.75	33.95	2875.20	0.000	0.000	1190.45	0.00	0.00
25	117.00	Mount pipes	16	31.882	35.070	0.75	0.75	16.56	582.14	0.000	0.000	580.76	0.00	0.00
Totals:									12,250.39			10,548.80		

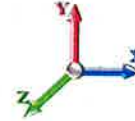
Total Applied Force Summary

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 10



Load Case: 1.2D + 1.0W 115 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 22

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		435.39	1886.66	0.00	0.00
10.00		425.85	1849.80	0.00	0.00
15.00		416.31	1812.95	0.00	0.00
20.00		406.78	1776.09	0.00	0.00
25.00		397.24	1739.24	0.00	0.00
30.00		388.03	1702.38	0.00	0.00
35.00		395.53	1665.53	0.00	0.00
40.00		400.55	1628.67	0.00	0.00
44.75		383.01	1513.10	0.00	0.00
45.00		20.18	127.97	0.00	0.00
50.00		410.14	2526.21	0.00	0.00
51.00		81.16	497.66	0.00	0.00
55.00		327.18	927.02	0.00	0.00
60.00		408.80	1135.08	0.00	0.00
65.00		406.35	1108.75	0.00	0.00
70.00		402.89	1082.43	0.00	0.00
75.00		398.51	1056.10	0.00	0.00
80.00		393.29	1029.78	0.00	0.00
84.75		367.94	953.91	0.00	0.00
85.00		19.31	80.98	0.00	0.00
89.75		366.38	1516.14	0.00	0.00
90.00		18.97	41.21	0.00	0.00
95.00		378.38	813.05	0.00	0.00
100.00		370.51	791.99	0.00	0.00
105.00		362.05	770.93	0.00	0.00
110.00		353.06	749.87	0.00	0.00
115.00		343.56	728.81	0.00	0.00
117.00	(38) attachments	5116.04	6396.17	0.00	0.00
120.00		198.45	395.92	0.00	0.00
125.00		323.15	643.01	0.00	0.00
126.00		63.05	126.08	0.00	0.00
127.00	(20) attachments	2798.68	3292.70	0.00	0.00
129.75		172.56	479.04	0.00	0.00
130.00		15.48	21.04	0.00	0.00
135.00		305.23	412.50	0.00	0.00
139.00	(42) attachments	3067.27	3360.07	0.00	0.00
140.00		57.53	62.43	0.00	0.00
145.00		281.58	302.67	0.00	0.00
150.00		269.20	286.87	0.00	0.00
Totals:		21,745.55	47,290.83	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

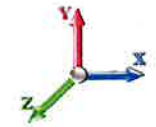
Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0W 115 mph Wind

Iterations 22

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	21.592	0.00	1.64
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	21.592	0.00	6.24
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	21.592	0.00	1.64
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	21.592	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	21.592	0.00	1.64
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	21.592	0.00	6.24
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	21.592	0.00	1.64
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	21.592	0.00	6.24
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	21.592	0.00	1.64
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	21.592	0.00	6.24
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	21.611	0.00	1.64
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	21.611	0.00	6.24
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	22.584	0.00	1.64
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	22.584	0.00	6.24
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	23.462	0.00	1.64
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	23.462	0.00	6.24
44.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.020	0.000	24.226	0.00	1.56
44.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.020	0.000	24.226	0.00	5.93
45.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.021	0.000	24.265	0.00	0.08
45.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.021	0.000	24.265	0.00	0.31
50.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	25.007	0.00	1.64
50.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	25.007	0.00	6.24
51.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.021	0.000	25.148	0.00	0.33
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.021	0.000	25.148	0.00	1.25
55.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.021	0.000	25.697	0.00	1.31
55.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.021	0.000	25.697	0.00	4.99
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	26.344	0.00	1.64
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	26.344	0.00	6.24
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	26.953	0.00	1.64
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	26.953	0.00	6.24
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	27.530	0.00	1.64
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	27.530	0.00	6.24
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	28.078	0.00	1.64
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	28.078	0.00	6.24
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	28.600	0.00	1.64
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	28.600	0.00	6.24
84.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.025	0.000	29.076	0.00	1.56
84.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.025	0.000	29.076	0.00	5.93
85.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.026	0.000	29.100	0.00	0.08
85.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.026	0.000	29.100	0.00	0.31
89.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.026	0.000	29.556	0.00	1.56
89.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.026	0.000	29.556	0.00	5.93
90.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.026	0.000	29.579	0.00	0.08
90.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.026	0.000	29.579	0.00	0.31
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	30.040	0.00	1.64
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	30.040	0.00	6.24
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	30.483	0.00	1.64

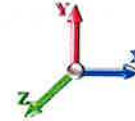
Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 12



Load Case: 1.2D + 1.0W 115 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 22

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	30.483	0.00	6.24
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	30.911	0.00	1.64
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	30.911	0.00	6.24
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	31.325	0.00	1.64
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	31.325	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	31.725	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	31.725	0.00	6.24
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.032	0.000	31.882	0.00	0.66
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.032	0.000	31.882	0.00	2.50
120.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.033	0.000	32.113	0.00	0.98
120.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.033	0.000	32.113	0.00	3.74
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.034	0.000	32.490	0.00	1.64
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.034	0.000	32.490	0.00	6.24
126.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	32.564	0.00	0.33
126.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	32.564	0.00	1.25
127.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	32.638	0.00	0.33
127.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	32.638	0.00	1.25
129.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.036	0.000	32.838	0.00	0.90
129.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.036	0.000	32.838	0.00	3.43
130.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.036	0.000	32.856	0.00	0.08
130.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.036	0.000	32.856	0.00	0.31
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	33.212	0.00	1.64
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	33.212	0.00	6.24
139.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.038	0.000	33.491	0.00	1.31
139.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.038	0.000	33.491	0.00	4.99
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	33.559	0.00	0.33
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	33.559	0.00	1.25
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.041	0.000	33.897	0.00	1.64
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.041	0.000	33.897	0.00	6.24
150.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.043	0.000	34.227	0.00	1.64
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.043	0.000	34.227	0.00	6.24
Totals:										0.0	236.3	

Calculated Forces

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

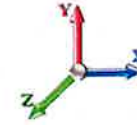
12/7/2023

Page: 13



Load Case: 1.2D + 1.0W 115 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 22

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-47.27	-21.78	0.00	-2197.2	0.00	2197.28	5554.25	1451.51	7173.10	6810.41	0.00	0.000	0.000	0.331
5.00	-45.36	-21.41	0.00	-2088.3	0.00	2088.38	5477.89	1419.83	6863.40	6569.12	0.04	-0.082	0.000	0.326
10.00	-43.48	-21.04	0.00	-1981.3	0.00	1981.34	5399.54	1388.15	6560.53	6329.59	0.18	-0.166	0.000	0.321
15.00	-41.64	-20.68	0.00	-1876.1	0.00	1876.13	5319.17	1356.47	6264.50	6092.00	0.40	-0.250	0.000	0.316
20.00	-39.83	-20.33	0.00	-1772.7	0.00	1772.73	5236.81	1324.79	5975.30	5856.50	0.70	-0.336	0.000	0.311
25.00	-38.06	-19.97	0.00	-1671.1	0.00	1671.10	5152.44	1293.11	5692.94	5623.26	1.10	-0.423	0.000	0.305
30.00	-36.33	-19.63	0.00	-1571.2	0.00	1571.23	5066.07	1261.43	5417.41	5392.43	1.59	-0.511	0.000	0.299
35.00	-34.64	-19.27	0.00	-1473.0	0.00	1473.08	4977.70	1229.75	5148.71	5164.19	2.18	-0.600	0.000	0.292
40.00	-32.99	-18.90	0.00	-1376.7	0.00	1376.73	4887.33	1198.07	4886.85	4938.68	2.85	-0.690	0.000	0.286
44.75	-31.47	-18.53	0.00	-1286.9	0.00	1286.94	4799.62	1167.97	4644.41	4727.14	3.58	-0.776	0.000	0.279
45.00	-31.32	-18.53	0.00	-1282.3	0.00	1282.30	4794.96	1166.38	4631.82	4716.08	3.62	-0.781	0.000	0.279
50.00	-28.79	-18.11	0.00	-1189.6	0.00	1189.65	4700.58	1134.70	4383.63	4496.55	4.49	-0.872	0.000	0.271
51.00	-28.28	-18.05	0.00	-1171.5	0.00	1171.54	3008.41	819.03	3197.41	2916.07	4.68	-0.891	0.000	0.412
55.00	-27.32	-17.75	0.00	-1099.3	0.00	1099.36	2970.26	800.93	3057.63	2815.04	5.46	-0.965	0.000	0.400
60.00	-26.16	-17.38	0.00	-1010.6	0.00	1010.61	2920.78	778.30	2887.29	2689.40	6.53	-1.088	0.000	0.385
65.00	-25.02	-17.00	0.00	-923.72	0.00	923.72	2869.29	755.67	2721.84	2564.65	7.74	-1.211	0.000	0.369
70.00	-23.91	-16.63	0.00	-838.70	0.00	838.70	2815.80	733.04	2561.27	2440.93	9.08	-1.333	0.000	0.353
75.00	-22.83	-16.25	0.00	-755.57	0.00	755.57	2760.31	710.41	2405.58	2318.41	10.54	-1.455	0.000	0.335
80.00	-21.78	-15.87	0.00	-674.32	0.00	674.32	2702.81	687.79	2254.77	2197.26	12.13	-1.574	0.000	0.315
84.75	-20.82	-15.50	0.00	-598.91	0.00	598.91	2646.34	666.29	2116.02	2083.58	13.75	-1.685	0.000	0.296
85.00	-20.73	-15.50	0.00	-595.04	0.00	595.04	2643.31	665.16	2108.84	2077.64	13.84	-1.691	0.000	0.295
89.75	-19.21	-15.11	0.00	-521.41	0.00	521.41	1922.43	522.76	1628.21	1486.68	15.58	-1.799	0.000	0.362
90.00	-19.15	-15.11	0.00	-517.64	0.00	517.64	1920.55	521.86	1622.58	1482.63	15.67	-1.805	0.000	0.360
95.00	-18.32	-14.74	0.00	-442.09	0.00	442.09	1881.78	503.75	1511.96	1401.97	17.63	-1.934	0.000	0.326
100.00	-17.51	-14.38	0.00	-368.37	0.00	368.37	1841.02	485.65	1405.24	1321.97	19.73	-2.056	0.000	0.289
105.00	-16.73	-14.02	0.00	-296.46	0.00	296.46	1798.25	467.55	1302.43	1242.79	21.94	-2.167	0.000	0.249
110.00	-15.97	-13.67	0.00	-226.35	0.00	226.35	1753.48	449.44	1203.53	1164.58	24.27	-2.265	0.000	0.204
115.00	-15.24	-13.31	0.00	-158.02	0.00	158.02	1706.70	431.34	1108.53	1087.50	26.68	-2.346	0.000	0.155
117.00	-9.06	-7.94	0.00	-131.41	0.00	131.41	1687.43	424.10	1071.62	1057.03	27.67	-2.374	0.000	0.130
120.00	-8.67	-7.73	0.00	-107.60	0.00	107.60	1657.93	413.24	1017.43	1011.73	29.18	-2.410	0.000	0.112
125.00	-8.03	-7.38	0.00	-68.95	0.00	68.95	1607.15	395.13	930.24	937.42	31.73	-2.458	0.000	0.079
126.00	-7.91	-7.31	0.00	-61.57	0.00	61.57	1596.75	391.51	913.27	922.75	32.24	-2.466	0.000	0.072
127.00	-4.74	-4.38	0.00	-54.26	0.00	54.26	1586.28	387.89	896.46	908.14	32.76	-2.473	0.000	0.063
129.75	-4.27	-4.19	0.00	-42.22	0.00	42.22	1068.62	288.02	659.01	607.00	34.19	-2.491	0.000	0.074
130.00	-4.25	-4.17	0.00	-41.17	0.00	41.17	1067.16	287.34	655.91	604.73	34.32	-2.492	0.000	0.072
135.00	-3.85	-3.85	0.00	-20.32	0.00	20.32	1036.93	273.77	595.39	559.65	36.95	-2.520	0.000	0.040
139.00	-0.62	-0.64	0.00	-4.93	0.00	4.93	1011.29	262.90	549.08	524.00	39.06	-2.531	0.000	0.010
140.00	-0.56	-0.58	0.00	-4.29	0.00	4.29	1004.68	260.19	537.80	515.16	39.59	-2.532	0.000	0.009
145.00	-0.27	-0.28	0.00	-1.41	0.00	1.41	970.44	246.61	483.13	471.44	42.25	-2.535	0.000	0.003
150.00	0.00	-0.27	0.00	0.00	0.00	0.00	934.20	233.03	431.40	428.65	44.90	-2.536	0.000	0.000

Wind Loading - Shaft

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

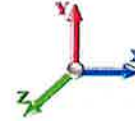
12/7/2023

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Load Case: 0.9D + 1.0W 115 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 22

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	21.592	23.75	478.40	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	21.592	23.75	468.03	0.730	0.000	5.00	25.111	18.33	435.4	0.0	1252.6
10.00		1.00	0.70	21.592	23.75	457.67	0.730	0.000	5.00	24.561	17.93	425.8	0.0	1225.0
15.00		1.00	0.70	21.592	23.75	447.30	0.730	0.000	5.00	24.011	17.53	416.3	0.0	1197.3
20.00		1.00	0.70	21.592	23.75	436.93	0.730	0.000	5.00	23.461	17.13	406.8	0.0	1169.7
25.00		1.00	0.70	21.592	23.75	426.57	0.730	0.000	5.00	22.911	16.72	397.2	0.0	1142.1
30.00		1.00	0.70	21.611	23.77	416.38	0.730	0.000	5.00	22.361	16.32	388.0	0.0	1114.4
35.00		1.00	0.73	22.584	24.84	415.05	0.730	0.000	5.00	21.811	15.92	395.5	0.0	1086.8
40.00		1.00	0.76	23.462	25.81	412.24	0.730	0.000	5.00	21.260	15.52	400.5	0.0	1059.1
44.75 Bot - Section 2		1.00	0.79	24.226	26.65	408.47	0.730	0.000	4.75	19.688	14.37	383.0	0.0	980.6
45.00		1.00	0.79	24.265	26.69	408.25	0.730	0.000	0.25	1.036	0.76	20.2	0.0	87.9
50.00		1.00	0.81	25.007	27.51	403.28	0.730	0.000	5.00	20.425	14.91	410.1	0.0	1732.3
51.00 Top - Section 1		1.00	0.82	25.148	27.66	402.19	0.730	0.000	1.00	4.019	2.93	81.2	0.0	340.8
55.00		1.00	0.83	25.697	28.27	402.94	0.730	0.000	4.00	15.856	11.57	327.2	0.0	565.4
60.00		1.00	0.85	26.344	28.98	396.53	0.730	0.000	5.00	19.325	14.11	408.8	0.0	688.9
65.00		1.00	0.87	26.953	29.65	389.51	0.730	0.000	5.00	18.775	13.71	406.3	0.0	669.2
70.00		1.00	0.89	27.530	30.28	381.95	0.730	0.000	5.00	18.225	13.30	402.9	0.0	649.5
75.00		1.00	0.91	28.078	30.89	373.92	0.730	0.000	5.00	17.675	12.90	398.5	0.0	629.7
80.00		1.00	0.93	28.600	31.46	365.45	0.730	0.000	5.00	17.125	12.50	393.3	0.0	610.0
84.75 Bot - Section 3		1.00	0.94	29.076	31.98	357.05	0.730	0.000	4.75	15.759	11.50	367.9	0.0	561.2
85.00		1.00	0.94	29.100	32.01	356.60	0.730	0.000	0.25	0.826	0.60	19.3	0.0	52.6
89.75 Top - Section 2		1.00	0.96	29.556	32.51	347.86	0.730	0.000	4.75	15.437	11.27	366.4	0.0	982.9
90.00		1.00	0.96	29.579	32.54	352.05	0.730	0.000	0.25	0.799	0.58	19.0	0.0	22.8
95.00		1.00	0.97	30.040	33.04	342.56	0.730	0.000	5.00	15.686	11.45	378.4	0.0	447.4
100.00		1.00	0.99	30.483	33.53	332.76	0.730	0.000	5.00	15.136	11.05	370.5	0.0	431.6
105.00		1.00	1.00	30.911	34.00	322.69	0.730	0.000	5.00	14.586	10.65	362.1	0.0	415.8
110.00		1.00	1.02	31.325	34.46	312.35	0.730	0.000	5.00	14.036	10.25	353.1	0.0	400.0
115.00		1.00	1.03	31.725	34.90	301.78	0.730	0.000	5.00	13.486	9.84	343.6	0.0	384.2
117.00 Appurtenance(s)		1.00	1.03	31.882	35.07	297.49	0.730	0.000	2.00	5.240	3.83	134.2	0.0	149.3
120.00		1.00	1.04	32.113	35.32	290.98	0.730	0.000	3.00	7.696	5.62	198.4	0.0	219.2
125.00		1.00	1.05	32.490	35.74	279.97	0.730	0.000	5.00	12.386	9.04	323.1	0.0	352.7
126.00 Bot - Section 4		1.00	1.06	32.564	35.82	277.74	0.730	0.000	1.00	2.411	1.76	63.1	0.0	68.6
127.00 Appurtenance(s)		1.00	1.06	32.638	35.90	275.50	0.730	0.000	1.00	2.421	1.77	63.4	0.0	119.8
129.75 Top - Section 3		1.00	1.06	32.838	36.12	269.32	0.730	0.000	2.75	6.544	4.78	172.6	0.0	323.8
130.00		1.00	1.07	32.856	36.14	272.44	0.730	0.000	0.25	0.587	0.43	15.5	0.0	12.6
135.00		1.00	1.08	33.212	36.53	261.06	0.730	0.000	5.00	11.445	8.35	305.2	0.0	244.8
139.00 Appurtenance(s)		1.00	1.09	33.491	36.84	251.82	0.730	0.000	4.00	8.760	6.39	235.6	0.0	187.3
140.00		1.00	1.09	33.559	36.92	249.50	0.730	0.000	1.00	2.135	1.56	57.5	0.0	45.6
145.00		1.00	1.10	33.897	37.29	237.76	0.730	0.000	5.00	10.345	7.55	281.6	0.0	221.1
150.00		1.00	1.11	34.227	37.65	225.87	0.730	0.000	5.00	9.795	7.15	269.2	0.0	209.2
Totals:									150.00			11,196.7		22,053.8

Discrete Appurtenance Forces

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

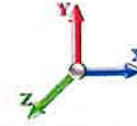


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Load Case: 0.9D + 1.0W 115 mph Wind

Iterations 22

Dead Load Factor 0.90
Wind Load Factor 1.00



No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	139.00	Powerwave LGP 13519	6	33.491	36.840	0.50	0.75	0.87	28.62	0.000	0.000	32.21	0.00	0.00
2	139.00	Powerwave 7770	6	33.491	36.840	0.55	0.75	18.07	189.00	0.000	0.000	665.60	0.00	0.00
3	139.00	Kathrein 800 10764	1	33.491	36.840	0.75	0.75	4.41	36.72	0.000	0.000	162.46	0.00	0.00
4	139.00	KMW	2	33.491	36.840	0.68	0.75	10.83	87.30	0.000	0.000	398.86	0.00	0.00
5	139.00	Powerwave LGP 21401	6	33.491	36.840	0.50	0.75	2.47	94.50	0.000	0.000	91.08	0.00	0.00
6	139.00	Mount pipe	12	33.491	36.840	0.75	0.75	14.40	327.46	0.000	0.000	530.49	0.00	0.00
7	139.00	Ericsson RRUS 11	6	33.491	36.840	0.50	0.75	7.60	273.78	0.000	0.000	279.90	0.00	0.00
8	139.00	Raycap DC6-48-60-18-8F	1	33.491	36.840	0.75	0.75	0.69	28.62	0.000	0.000	25.42	0.00	0.00
9	139.00	Commscope	1	33.491	36.840	0.73	0.75	0.04	0.99	0.000	0.000	1.34	0.00	0.00
10	139.00	Low Profile Platform	1	33.491	36.840	1.00	1.00	17.49	1214.10	0.000	0.000	644.33	0.00	0.00
11	127.00	Raycap	1	32.638	35.902	0.75	0.75	3.04	28.80	0.000	0.000	109.32	0.00	0.00
12	127.00	Samsung RF4461d-13A	3	32.638	35.902	0.50	0.75	2.82	213.57	0.000	0.000	101.21	0.00	0.00
13	127.00	Samsung B2/B66A RRH	3	32.638	35.902	0.50	0.75	2.82	201.69	0.000	0.000	101.21	0.00	0.00
14	127.00	Samsung MT6413-77A	3	32.638	35.902	0.52	0.75	5.88	154.71	0.000	0.000	211.24	0.00	0.00
15	127.00	Commscope	3	32.638	35.902	0.38	0.75	2.21	142.83	0.000	0.000	79.16	0.00	0.00
16	127.00	Commscope	6	32.638	35.902	0.62	0.75	30.51	232.20	0.000	0.000	1095.53	0.00	0.00
17	127.00	Low Profile Platform	1	32.638	35.902	1.00	1.00	28.90	1350.00	0.000	0.000	1037.55	0.00	0.00
18	117.00	4460 B25 + B66	4	31.882	35.070	0.50	0.75	5.73	374.40	0.000	0.000	200.90	0.00	0.00
19	117.00	VV-65B-R1	4	31.882	35.070	0.55	0.75	17.54	100.44	0.000	0.000	615.06	0.00	0.00
20	117.00	APXVAALL24_43-U-NA20	4	31.882	35.070	0.55	0.75	44.33	442.08	0.000	0.000	1554.50	0.00	0.00
21	117.00	AIR6419 B41	4	31.882	35.070	0.53	0.75	12.03	299.88	0.000	0.000	422.05	0.00	0.00
22	117.00	F4P-HRK10	1	31.882	35.070	0.75	0.75	6.20	438.30	0.000	0.000	217.26	0.00	0.00
23	117.00	Ericsson 4480 B71 + B85	4	31.882	35.070	0.50	0.75	5.73	334.80	0.000	0.000	200.90	0.00	0.00
24	117.00	SitePro F4P-10W	1	31.882	35.070	0.75	0.75	33.95	2156.40	0.000	0.000	1190.45	0.00	0.00
25	117.00	Mount pipes	16	31.882	35.070	0.75	0.75	16.56	436.61	0.000	0.000	580.76	0.00	0.00
Totals:									9,187.79			10,548.80		

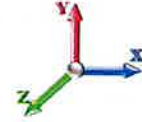
Total Applied Force Summary

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 16



Load Case: 0.9D + 1.0W 115 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 22

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		435.39	1414.99	0.00	0.00
10.00		425.85	1387.35	0.00	0.00
15.00		416.31	1359.71	0.00	0.00
20.00		406.78	1332.07	0.00	0.00
25.00		397.24	1304.43	0.00	0.00
30.00		388.03	1276.79	0.00	0.00
35.00		395.53	1249.15	0.00	0.00
40.00		400.55	1221.51	0.00	0.00
44.75		383.01	1134.83	0.00	0.00
45.00		20.18	95.98	0.00	0.00
50.00		410.14	1894.66	0.00	0.00
51.00		81.16	373.24	0.00	0.00
55.00		327.18	695.26	0.00	0.00
60.00		408.80	851.31	0.00	0.00
65.00		406.35	831.57	0.00	0.00
70.00		402.89	811.82	0.00	0.00
75.00		398.51	792.08	0.00	0.00
80.00		393.29	772.33	0.00	0.00
84.75		367.94	715.43	0.00	0.00
85.00		19.31	60.74	0.00	0.00
89.75		366.38	1137.11	0.00	0.00
90.00		18.97	30.90	0.00	0.00
95.00		378.38	609.79	0.00	0.00
100.00		370.51	593.99	0.00	0.00
105.00		362.05	578.20	0.00	0.00
110.00		353.06	562.40	0.00	0.00
115.00		343.56	546.61	0.00	0.00
117.00	(38) attachments	5116.04	4797.13	0.00	0.00
120.00		198.45	296.94	0.00	0.00
125.00		323.15	482.26	0.00	0.00
126.00		63.05	94.56	0.00	0.00
127.00	(20) attachments	2798.68	2469.52	0.00	0.00
129.75		172.56	359.28	0.00	0.00
130.00		15.48	15.78	0.00	0.00
135.00		305.23	309.37	0.00	0.00
139.00	(42) attachments	3067.27	2520.06	0.00	0.00
140.00		57.53	46.82	0.00	0.00
145.00		281.58	227.00	0.00	0.00
150.00		269.20	215.15	0.00	0.00
	Totals:	21,745.55	35,468.13	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

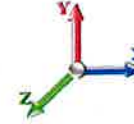


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Load Case: 0.9D + 1.0W 115 mph Wind

Iterations 22

Dead Load Factor 0.90
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	21.592	0.00	1.23
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	21.592	0.00	4.68
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	21.592	0.00	1.23
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	21.592	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	21.592	0.00	1.23
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	21.592	0.00	4.68
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	21.592	0.00	1.23
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	21.592	0.00	4.68
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	21.592	0.00	1.23
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	21.592	0.00	4.68
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	21.611	0.00	1.23
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	21.611	0.00	4.68
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	22.584	0.00	1.23
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	22.584	0.00	4.68
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	23.462	0.00	1.23
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	23.462	0.00	4.68
44.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.020	0.000	24.226	0.00	1.17
44.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.020	0.000	24.226	0.00	4.45
45.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.021	0.000	24.265	0.00	0.06
45.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.021	0.000	24.265	0.00	0.23
50.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	25.007	0.00	1.23
50.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	25.007	0.00	4.68
51.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.021	0.000	25.148	0.00	0.25
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.021	0.000	25.148	0.00	0.94
55.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.021	0.000	25.697	0.00	0.98
55.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.021	0.000	25.697	0.00	3.74
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	26.344	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	26.344	0.00	4.68
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	26.953	0.00	1.23
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	26.953	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	27.530	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	27.530	0.00	4.68
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	28.078	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	28.078	0.00	4.68
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	28.600	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	28.600	0.00	4.68
84.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.025	0.000	29.076	0.00	1.17
84.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.025	0.000	29.076	0.00	4.45
85.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.026	0.000	29.100	0.00	0.06
85.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.026	0.000	29.100	0.00	0.23
89.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.026	0.000	29.556	0.00	1.17
89.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.026	0.000	29.556	0.00	4.45
90.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.026	0.000	29.579	0.00	0.06
90.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.026	0.000	29.579	0.00	0.23
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	30.040	0.00	1.23
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	30.040	0.00	4.68
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	30.483	0.00	1.23

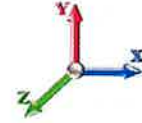
Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 18



Load Case: 0.9D + 1.0W 115 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 22

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	30.483	0.00	4.68
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	30.911	0.00	1.23
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	30.911	0.00	4.68
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	31.325	0.00	1.23
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	31.325	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	31.725	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	31.725	0.00	4.68
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.032	0.000	31.882	0.00	0.49
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.032	0.000	31.882	0.00	1.87
120.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.033	0.000	32.113	0.00	0.74
120.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.033	0.000	32.113	0.00	2.81
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.034	0.000	32.490	0.00	1.23
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.034	0.000	32.490	0.00	4.68
126.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	32.564	0.00	0.25
126.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	32.564	0.00	0.94
127.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	32.638	0.00	0.25
127.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	32.638	0.00	0.94
129.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.036	0.000	32.838	0.00	0.68
129.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.036	0.000	32.838	0.00	2.57
130.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.036	0.000	32.856	0.00	0.06
130.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.036	0.000	32.856	0.00	0.23
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	33.212	0.00	1.23
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	33.212	0.00	4.68
139.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.038	0.000	33.491	0.00	0.98
139.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.038	0.000	33.491	0.00	3.74
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	33.559	0.00	0.25
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	33.559	0.00	0.94
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.041	0.000	33.897	0.00	1.23
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.041	0.000	33.897	0.00	4.68
150.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.043	0.000	34.227	0.00	1.23
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.043	0.000	34.227	0.00	4.68
Totals:											0.0	177.3

Calculated Forces

Structure: CT13613-A-VZW

Code: TIA-222-H

12/7/2023

Site Name: Johnson

Exposure: B

Height: 150.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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Load Case: 0.9D + 1.0W 115 mph Wind

Iterations 22

Dead Load Factor 0.90

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-35.45	-21.77	0.00	-2181.7	0.00	2181.77	5554.25	1451.51	7173.10	6810.41	0.00	0.000	0.000	0.327
5.00	-34.01	-21.38	0.00	-2072.9	0.00	2072.92	5477.89	1419.83	6863.40	6569.12	0.04	-0.082	0.000	0.322
10.00	-32.59	-21.00	0.00	-1966.0	0.00	1966.01	5399.54	1388.15	6560.53	6329.59	0.17	-0.164	0.000	0.317
15.00	-31.20	-20.63	0.00	-1861.0	0.00	1861.00	5319.17	1356.47	6264.50	6092.00	0.39	-0.248	0.000	0.312
20.00	-29.84	-20.26	0.00	-1757.8	0.00	1757.87	5236.81	1324.79	5975.30	5856.50	0.70	-0.333	0.000	0.306
25.00	-28.51	-19.90	0.00	-1656.5	0.00	1656.58	5152.44	1293.11	5692.94	5623.26	1.09	-0.420	0.000	0.300
30.00	-27.21	-19.54	0.00	-1557.1	0.00	1557.11	5066.07	1261.43	5417.41	5392.43	1.58	-0.507	0.000	0.294
35.00	-25.93	-19.17	0.00	-1459.4	0.00	1459.42	4977.70	1229.75	5148.71	5164.19	2.16	-0.595	0.000	0.288
40.00	-24.69	-18.79	0.00	-1363.5	0.00	1363.56	4887.33	1198.07	4886.85	4938.68	2.83	-0.684	0.000	0.281
44.75	-23.54	-18.42	0.00	-1274.2	0.00	1274.29	4799.62	1167.97	4644.41	4727.14	3.56	-0.770	0.000	0.275
45.00	-23.43	-18.41	0.00	-1269.6	0.00	1269.69	4794.96	1166.38	4631.82	4716.08	3.60	-0.774	0.000	0.274
50.00	-21.52	-18.00	0.00	-1177.6	0.00	1177.62	4700.58	1134.70	4383.63	4496.55	4.46	-0.865	0.000	0.267
51.00	-21.14	-17.93	0.00	-1159.6	0.00	1159.62	3008.41	819.03	3197.41	2916.07	4.64	-0.884	0.000	0.405
55.00	-20.42	-17.62	0.00	-1087.9	0.00	1087.92	2970.26	800.93	3057.63	2815.04	5.41	-0.957	0.000	0.394
60.00	-19.54	-17.24	0.00	-999.80	0.00	999.80	2920.78	778.30	2887.29	2689.40	6.48	-1.079	0.000	0.379
65.00	-18.68	-16.86	0.00	-913.59	0.00	913.59	2869.29	755.67	2721.84	2564.65	7.67	-1.200	0.000	0.363
70.00	-17.84	-16.47	0.00	-829.30	0.00	829.30	2815.80	733.04	2561.27	2440.93	9.00	-1.321	0.000	0.347
75.00	-17.03	-16.09	0.00	-746.93	0.00	746.93	2760.31	710.41	2405.58	2318.41	10.45	-1.441	0.000	0.329
80.00	-16.23	-15.71	0.00	-666.47	0.00	666.47	2702.81	687.79	2254.77	2197.26	12.02	-1.559	0.000	0.310
84.75	-15.51	-15.34	0.00	-591.84	0.00	591.84	2646.34	666.29	2116.02	2083.58	13.63	-1.669	0.000	0.290
85.00	-15.44	-15.33	0.00	-588.00	0.00	588.00	2643.31	665.16	2108.84	2077.64	13.71	-1.675	0.000	0.289
89.75	-14.30	-14.95	0.00	-515.17	0.00	515.17	1922.43	522.76	1628.21	1486.68	15.44	-1.781	0.000	0.355
90.00	-14.25	-14.94	0.00	-511.43	0.00	511.43	1920.55	521.86	1622.58	1482.63	15.53	-1.787	0.000	0.353
95.00	-13.62	-14.58	0.00	-436.71	0.00	436.71	1881.78	503.75	1511.96	1401.97	17.47	-1.915	0.000	0.320
100.00	-13.01	-14.21	0.00	-363.84	0.00	363.84	1841.02	485.65	1405.24	1321.97	19.54	-2.035	0.000	0.283
105.00	-12.42	-13.85	0.00	-292.78	0.00	292.78	1798.25	467.55	1302.43	1242.79	21.74	-2.145	0.000	0.243
110.00	-11.85	-13.49	0.00	-223.53	0.00	223.53	1753.48	449.44	1203.53	1164.58	24.04	-2.242	0.000	0.200
115.00	-11.31	-13.14	0.00	-156.06	0.00	156.06	1706.70	431.34	1108.53	1087.50	26.43	-2.322	0.000	0.151
117.00	-6.72	-7.84	0.00	-129.78	0.00	129.78	1687.43	424.10	1071.62	1057.03	27.41	-2.349	0.000	0.127
120.00	-6.42	-7.63	0.00	-106.27	0.00	106.27	1657.93	413.24	1017.43	1011.73	28.90	-2.384	0.000	0.109
125.00	-5.95	-7.29	0.00	-68.12	0.00	68.12	1607.15	395.13	930.24	937.42	31.42	-2.432	0.000	0.077
126.00	-5.86	-7.22	0.00	-60.83	0.00	60.83	1596.75	391.51	913.27	922.75	31.93	-2.440	0.000	0.070
127.00	-3.51	-4.32	0.00	-53.60	0.00	53.60	1586.28	387.89	896.46	908.14	32.44	-2.447	0.000	0.061
129.75	-3.16	-4.14	0.00	-41.72	0.00	41.72	1068.62	288.02	659.01	607.00	33.86	-2.464	0.000	0.072
130.00	-3.14	-4.12	0.00	-40.68	0.00	40.68	1067.16	287.34	655.91	604.73	33.99	-2.466	0.000	0.070
135.00	-2.85	-3.80	0.00	-20.08	0.00	20.08	1036.93	273.77	595.39	559.65	36.58	-2.493	0.000	0.039
139.00	-0.46	-0.63	0.00	-4.87	0.00	4.87	1011.29	262.90	549.08	524.00	38.68	-2.504	0.000	0.010
140.00	-0.42	-0.57	0.00	-4.24	0.00	4.24	1004.68	260.19	537.80	515.16	39.20	-2.505	0.000	0.009
145.00	-0.20	-0.28	0.00	-1.39	0.00	1.39	970.44	246.61	483.13	471.44	41.83	-2.508	0.000	0.003
150.00	0.00	-0.27	0.00	0.00	0.00	0.00	934.20	233.03	431.40	428.65	44.45	-2.509	0.000	0.000

Wind Loading - Shaft

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

12/7/2023

Page: 20



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 21

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.082	4.49	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.082	4.49	0.00	1.200	0.828	5.00	25.801	30.96	139.0	308.8	1979.0
10.00		1.00	0.70	4.082	4.49	0.00	1.200	0.887	5.00	25.300	30.36	136.3	324.1	1957.4
15.00		1.00	0.70	4.082	4.49	0.00	1.200	0.924	5.00	24.781	29.74	133.5	330.2	1926.6
20.00		1.00	0.70	4.082	4.49	0.00	1.200	0.951	5.00	24.253	29.10	130.7	332.2	1891.8
25.00		1.00	0.70	4.082	4.49	0.00	1.200	0.973	5.00	23.721	28.47	127.8	331.9	1854.7
30.00		1.00	0.70	4.085	4.49	0.00	1.200	0.991	5.00	23.186	27.82	125.0	330.1	1816.0
35.00		1.00	0.73	4.269	4.70	0.00	1.200	1.006	5.00	22.649	27.18	127.6	327.1	1776.1
40.00		1.00	0.76	4.435	4.88	0.00	1.200	1.019	5.00	22.110	26.53	129.4	323.3	1735.5
44.75 Bot - Section 2		1.00	0.79	4.580	5.04	0.00	1.200	1.031	4.75	20.504	24.60	124.0	303.1	1610.5
45.00		1.00	0.79	4.587	5.05	0.00	1.200	1.032	0.25	1.079	1.29	6.5	16.1	133.3
50.00		1.00	0.81	4.727	5.20	0.00	1.200	1.042	5.00	21.294	25.55	132.9	317.8	2627.5
51.00 Top - Section 1		1.00	0.82	4.754	5.23	0.00	1.200	1.044	1.00	4.193	5.03	26.3	63.4	517.7
55.00		1.00	0.83	4.858	5.34	0.00	1.200	1.052	4.00	16.557	19.87	106.2	249.9	1003.7
60.00		1.00	0.85	4.980	5.48	0.00	1.200	1.062	5.00	20.210	24.25	132.8	306.5	1225.1
65.00		1.00	0.87	5.095	5.60	0.00	1.200	1.070	5.00	19.667	23.60	132.3	300.3	1192.6
70.00		1.00	0.89	5.204	5.72	0.00	1.200	1.078	5.00	19.123	22.95	131.4	293.8	1159.7
75.00		1.00	0.91	5.308	5.84	0.00	1.200	1.086	5.00	18.579	22.30	130.2	287.0	1126.7
80.00		1.00	0.93	5.407	5.95	0.00	1.200	1.093	5.00	18.035	21.64	128.7	280.0	1093.3
84.75 Bot - Section 3		1.00	0.94	5.496	6.05	0.00	1.200	1.099	4.75	16.629	19.95	120.6	259.5	1007.8
85.00		1.00	0.94	5.501	6.05	0.00	1.200	1.099	0.25	0.872	1.05	6.3	13.8	84.0
89.75 Top - Section 2		1.00	0.96	5.587	6.15	0.00	1.200	1.105	4.75	16.312	19.57	120.3	255.8	1566.3
90.00		1.00	0.96	5.592	6.15	0.00	1.200	1.106	0.25	0.845	1.01	6.2	13.4	43.8
95.00		1.00	0.97	5.679	6.25	0.00	1.200	1.112	5.00	16.613	19.94	124.5	261.3	857.9
100.00		1.00	0.99	5.762	6.34	0.00	1.200	1.117	5.00	16.067	19.28	122.2	253.6	829.1
105.00		1.00	1.00	5.843	6.43	0.00	1.200	1.123	5.00	15.522	18.63	119.7	245.8	800.2
110.00		1.00	1.02	5.922	6.51	0.00	1.200	1.128	5.00	14.976	17.97	117.1	237.8	771.1
115.00		1.00	1.03	5.997	6.60	0.00	1.200	1.133	5.00	14.430	17.32	114.2	229.6	741.9
117.00 Appurtenance(s)		1.00	1.03	6.027	6.63	0.00	1.200	1.135	2.00	5.619	6.74	44.7	90.5	289.6
120.00		1.00	1.04	6.071	6.68	0.00	1.200	1.138	3.00	8.265	9.92	66.2	132.8	425.0
125.00		1.00	1.05	6.142	6.76	0.00	1.200	1.142	5.00	13.338	16.01	108.1	213.0	683.2
126.00 Bot - Section 4		1.00	1.06	6.156	6.77	0.00	1.200	1.143	1.00	2.602	3.12	21.1	42.3	133.8
127.00 Appurtenance(s)		1.00	1.06	6.170	6.79	0.00	1.200	1.144	1.00	2.612	3.13	21.3	42.5	202.2
129.75 Top - Section 3		1.00	1.06	6.208	6.83	0.00	1.200	1.147	2.75	7.070	8.48	57.9	114.2	545.9
130.00		1.00	1.07	6.211	6.83	0.00	1.200	1.147	0.25	0.634	0.76	5.2	10.4	27.1
135.00		1.00	1.08	6.278	6.91	0.00	1.200	1.151	5.00	12.404	14.88	102.8	198.6	525.0
139.00 Appurtenance(s)		1.00	1.09	6.331	6.96	0.00	1.200	1.155	4.00	9.530	11.44	79.6	153.4	403.1
140.00		1.00	1.09	6.344	6.98	0.00	1.200	1.155	1.00	2.328	2.79	19.5	38.0	98.9
145.00		1.00	1.10	6.408	7.05	0.00	1.200	1.160	5.00	11.311	13.57	95.7	181.2	476.0
150.00		1.00	1.11	6.470	7.12	0.00	1.200	1.163	5.00	10.764	12.92	91.9	172.4	451.4
Totals:									150.00			3,666.0	37,590.7	

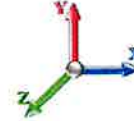
Discrete Appurtenance Forces

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 21



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 21

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	139.00	Powerwave LGP 13519	6	6.331	6.964	0.50	0.75	1.36	56.30	0.000	0.000	9.46	0.00	0.00	
2	139.00	Powerwave 7770	6	6.331	6.964	0.55	0.75	20.41	252.00	0.000	0.000	142.15	0.00	0.00	
3	139.00	Kathrein 800 10764	1	6.331	6.964	0.75	0.75	5.47	96.82	0.000	0.000	38.12	0.00	0.00	
4	139.00	KMW	2	6.331	6.964	0.68	0.75	13.32	238.13	0.000	0.000	92.78	0.00	0.00	
5	139.00	Powerwave LGP 21401	6	6.331	6.964	0.50	0.75	3.25	314.95	0.000	0.000	22.66	0.00	0.00	
6	139.00	Mount pipe	12	6.331	6.964	0.75	0.75	21.05	-20547.4	0.000	0.000	146.60	0.00	0.00	
7	139.00	Ericsson RRUS 11	6	6.331	6.964	0.50	0.75	9.35	554.24	0.000	0.000	65.13	0.00	0.00	
8	139.00	Raycap DC6-48-60-18-8F	1	6.331	6.964	0.75	0.75	0.91	61.36	0.000	0.000	6.32	0.00	0.00	
9	139.00	Commscope	1	6.331	6.964	0.73	0.75	0.10	1.87	0.000	0.000	0.69	0.00	0.00	
10	139.00	Low Profile Platform	1	6.331	6.964	1.00	1.00	25.57	2102.37	0.000	0.000	178.06	0.00	0.00	
11	127.00	Raycap	1	6.170	6.787	0.75	0.75	3.45	84.59	0.000	0.000	23.39	0.00	0.00	
12	127.00	Samsung RF4461d-13A	3	6.170	6.787	0.50	0.75	3.36	263.29	0.000	0.000	22.77	0.00	0.00	
13	127.00	Samsung B2/B66A RRH	3	6.170	6.787	0.50	0.75	3.36	233.61	0.000	0.000	22.77	0.00	0.00	
14	127.00	Samsung MT6413-77A	3	6.170	6.787	0.53	0.75	6.88	242.38	0.000	0.000	46.71	0.00	0.00	
15	127.00	Commscope	3	6.170	6.787	0.38	0.75	2.61	383.94	0.000	0.000	17.74	0.00	0.00	
16	127.00	Commscope	6	6.170	6.787	0.63	0.75	34.01	779.56	0.000	0.000	230.79	0.00	0.00	
17	127.00	Low Profile Platform	1	6.170	6.787	1.00	1.00	44.11	2358.20	0.000	0.000	299.37	0.00	0.00	
18	117.00	4460 B25 + B66	4	6.027	6.629	0.50	0.75	6.61	589.66	0.000	0.000	43.82	0.00	0.00	
19	117.00	VV-65B-R1	4	6.027	6.629	0.55	0.75	19.34	553.09	0.000	0.000	128.23	0.00	0.00	
20	117.00	APXVAALL24_43-U-NA20	4	6.027	6.629	0.55	0.75	47.00	1653.81	0.000	0.000	311.56	0.00	0.00	
21	117.00	AIR6419 B41	4	6.027	6.629	0.53	0.75	13.35	482.70	0.000	0.000	88.51	0.00	0.00	
22	117.00	F4P-HRK10	1	6.027	6.629	0.75	0.75	9.01	468.80	0.000	0.000	59.71	0.00	0.00	
23	117.00	Ericsson 4480 B71 + B85	4	6.027	6.629	0.50	0.75	6.61	565.52	0.000	0.000	43.82	0.00	0.00	
24	117.00	SitePro F4P-10W	1	6.027	6.629	0.75	0.75	49.36	3815.77	0.000	0.000	327.20	0.00	0.00	
25	117.00	Mount pipes	16	6.027	6.629	0.75	0.75	24.08	-13549.9	0.000	0.000	159.62	0.00	0.00	
Totals:									-17,944.4	7					2,528.01

Total Applied Force Summary

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 22



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 21

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		139.01	2207.30	0.00	0.00
10.00		136.31	2187.18	0.00	0.00
15.00		133.52	2157.38	0.00	0.00
20.00		130.67	2123.29	0.00	0.00
25.00		127.81	2086.72	0.00	0.00
30.00		125.03	2048.52	0.00	0.00
35.00		127.63	2009.12	0.00	0.00
40.00		129.44	1968.83	0.00	0.00
44.75		123.95	1832.53	0.00	0.00
45.00		6.53	144.97	0.00	0.00
50.00		132.87	2861.58	0.00	0.00
51.00		26.31	564.53	0.00	0.00
55.00		106.17	1191.18	0.00	0.00
60.00		132.85	1459.69	0.00	0.00
65.00		132.27	1427.42	0.00	0.00
70.00		131.37	1394.84	0.00	0.00
75.00		130.17	1361.98	0.00	0.00
80.00		128.71	1328.88	0.00	0.00
84.75		120.65	1231.73	0.00	0.00
85.00		6.33	95.76	0.00	0.00
89.75		120.30	1790.43	0.00	0.00
90.00		6.24	55.62	0.00	0.00
95.00		124.52	1094.04	0.00	0.00
100.00		122.21	1065.44	0.00	0.00
105.00		119.72	1036.68	0.00	0.00
110.00		117.06	1007.78	0.00	0.00
115.00		114.23	978.74	0.00	0.00
117.00	(38) attachments	1207.19	-5036.30	0.00	0.00
120.00		66.23	541.01	0.00	0.00
125.00		108.13	876.61	0.00	0.00
126.00		21.14	172.46	0.00	0.00
127.00	(20) attachments	684.82	4586.48	0.00	0.00
129.75		57.93	604.66	0.00	0.00
130.00		5.20	32.44	0.00	0.00
135.00		102.80	632.04	0.00	0.00
139.00	(42) attachments	781.60	-16380.64	0.00	0.00
140.00		19.49	104.63	0.00	0.00
145.00		95.67	505.06	0.00	0.00
150.00		91.93	480.56	0.00	0.00
Totals:		6,194.03	25,831.19	0.00	0.00

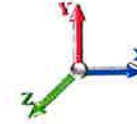
Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 23



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.85	0.00	0.017	0.000	4.082	0.00	7.09
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.95	0.00	0.017	0.000	4.082	0.00	12.60
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.90	0.00	0.017	0.000	4.082	0.00	7.80
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.00	0.00	0.017	0.000	4.082	0.00	13.37
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.93	0.00	0.018	0.000	4.082	0.00	8.26
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.03	0.00	0.018	0.000	4.082	0.00	13.87
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.95	0.00	0.018	0.000	4.082	0.00	8.61
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.06	0.00	0.018	0.000	4.082	0.00	14.24
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.97	0.00	0.018	0.000	4.082	0.00	8.89
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.07	0.00	0.018	0.000	4.082	0.00	14.55
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.98	0.00	0.019	0.000	4.085	0.00	9.13
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.09	0.00	0.019	0.000	4.085	0.00	14.80
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.00	0.00	0.019	0.000	4.269	0.00	9.34
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.10	0.00	0.019	0.000	4.269	0.00	15.03
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.01	0.00	0.020	0.000	4.435	0.00	9.53
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.11	0.00	0.020	0.000	4.435	0.00	15.23
44.75	Safety Cable	Yes	4.75	0.000	0.38	0.97	0.00	0.020	0.000	4.580	0.00	9.21
44.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	1.07	0.00	0.020	0.000	4.580	0.00	14.63
45.00	Safety Cable	Yes	0.25	0.000	0.38	0.05	0.00	0.021	0.000	4.587	0.00	0.49
45.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.06	0.00	0.021	0.000	4.587	0.00	0.77
50.00	Safety Cable	Yes	5.00	0.000	0.38	1.03	0.00	0.021	0.000	4.727	0.00	9.85
50.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.13	0.00	0.021	0.000	4.727	0.00	15.57
51.00	Safety Cable	Yes	1.00	0.000	0.38	0.21	0.00	0.021	0.000	4.754	0.00	1.98
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.23	0.00	0.021	0.000	4.754	0.00	3.12
55.00	Safety Cable	Yes	4.00	0.000	0.38	0.83	0.00	0.021	0.000	4.858	0.00	8.00
55.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.91	0.00	0.021	0.000	4.858	0.00	12.58
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.04	0.00	0.022	0.000	4.980	0.00	10.13
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.15	0.00	0.022	0.000	4.980	0.00	15.87
65.00	Safety Cable	Yes	5.00	0.000	0.38	1.05	0.00	0.022	0.000	5.095	0.00	10.25
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.15	0.00	0.022	0.000	5.095	0.00	16.00
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.06	0.00	0.023	0.000	5.204	0.00	10.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.16	0.00	0.023	0.000	5.204	0.00	16.12
75.00	Safety Cable	Yes	5.00	0.000	0.38	1.06	0.00	0.024	0.000	5.308	0.00	10.48
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.17	0.00	0.024	0.000	5.308	0.00	16.24
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.07	0.00	0.025	0.000	5.407	0.00	10.58
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.17	0.00	0.025	0.000	5.407	0.00	16.35
84.75	Safety Cable	Yes	4.75	0.000	0.38	1.02	0.00	0.025	0.000	5.496	0.00	10.14
84.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	1.12	0.00	0.025	0.000	5.496	0.00	15.63
85.00	Safety Cable	Yes	0.25	0.000	0.38	0.05	0.00	0.026	0.000	5.501	0.00	0.53
85.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.06	0.00	0.026	0.000	5.501	0.00	0.82
89.75	Safety Cable	Yes	4.75	0.000	0.38	1.03	0.00	0.026	0.000	5.587	0.00	10.23
89.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	1.12	0.00	0.026	0.000	5.587	0.00	15.72
90.00	Safety Cable	Yes	0.25	0.000	0.38	0.05	0.00	0.026	0.000	5.592	0.00	0.54
90.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.06	0.00	0.026	0.000	5.592	0.00	0.83
95.00	Safety Cable	Yes	5.00	0.000	0.38	1.08	0.00	0.027	0.000	5.679	0.00	10.86
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.19	0.00	0.027	0.000	5.679	0.00	16.65
100.00	Safety Cable	Yes	5.00	0.000	0.38	1.09	0.00	0.028	0.000	5.762	0.00	10.95

Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

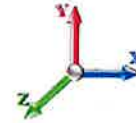
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.19	0.00	0.028	0.000	5.762	0.00	16.74
105.00	Safety Cable	Yes	5.00	0.000	0.38	1.09	0.00	0.029	0.000	5.843	0.00	11.03
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.20	0.00	0.029	0.000	5.843	0.00	16.83
110.00	Safety Cable	Yes	5.00	0.000	0.38	1.10	0.00	0.030	0.000	5.922	0.00	11.11
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.20	0.00	0.030	0.000	5.922	0.00	16.92
115.00	Safety Cable	Yes	5.00	0.000	0.38	1.10	0.00	0.031	0.000	5.997	0.00	11.19
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.21	0.00	0.031	0.000	5.997	0.00	17.00
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.032	0.000	6.027	0.00	4.49
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.032	0.000	6.027	0.00	6.81
120.00	Safety Cable	Yes	3.00	0.000	0.38	0.66	0.00	0.033	0.000	6.071	0.00	6.76
120.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.73	0.00	0.033	0.000	6.071	0.00	10.25
125.00	Safety Cable	Yes	5.00	0.000	0.38	1.11	0.00	0.034	0.000	6.142	0.00	11.34
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.21	0.00	0.034	0.000	6.142	0.00	17.15
126.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.035	0.000	6.156	0.00	2.27
126.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.035	0.000	6.156	0.00	3.43
127.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.035	0.000	6.170	0.00	2.27
127.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.035	0.000	6.170	0.00	3.44
129.75	Safety Cable	Yes	2.75	0.000	0.38	0.61	0.00	0.036	0.000	6.208	0.00	6.27
129.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.67	0.00	0.036	0.000	6.208	0.00	9.47
130.00	Safety Cable	Yes	0.25	0.000	0.38	0.06	0.00	0.036	0.000	6.211	0.00	0.57
130.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.06	0.00	0.036	0.000	6.211	0.00	0.86
135.00	Safety Cable	Yes	5.00	0.000	0.38	1.12	0.00	0.037	0.000	6.278	0.00	11.47
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.22	0.00	0.037	0.000	6.278	0.00	17.30
139.00	Safety Cable	Yes	4.00	0.000	0.38	0.90	0.00	0.038	0.000	6.331	0.00	9.22
139.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.98	0.00	0.038	0.000	6.331	0.00	13.88
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.039	0.000	6.344	0.00	2.31
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.25	0.00	0.039	0.000	6.344	0.00	3.47
145.00	Safety Cable	Yes	5.00	0.000	0.38	1.12	0.00	0.041	0.000	6.408	0.00	11.60
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.23	0.00	0.041	0.000	6.408	0.00	17.43
150.00	Safety Cable	Yes	5.00	0.000	0.38	1.13	0.00	0.043	0.000	6.470	0.00	11.66
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.23	0.00	0.043	0.000	6.470	0.00	17.50
Totals:											0.0	785.9

Calculated Forces

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 21

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-47.25	-6.20	0.00	-599.40	0.00	599.40	5554.25	1451.51	7173.10	6810.41	0.00	0.000	0.000	0.097
5.00	-45.04	-6.08	0.00	-568.39	0.00	568.39	5477.89	1419.83	6863.40	6569.12	0.01	-0.022	0.000	0.095
10.00	-42.85	-5.96	0.00	-537.98	0.00	537.98	5399.54	1388.15	6560.53	6329.59	0.05	-0.045	0.000	0.093
15.00	-40.69	-5.84	0.00	-508.18	0.00	508.18	5319.17	1356.47	6264.50	6092.00	0.11	-0.068	0.000	0.091
20.00	-38.56	-5.72	0.00	-478.97	0.00	478.97	5236.81	1324.79	5975.30	5856.50	0.19	-0.091	0.000	0.089
25.00	-36.47	-5.61	0.00	-450.36	0.00	450.36	5152.44	1293.11	5692.94	5623.26	0.30	-0.115	0.000	0.087
30.00	-34.42	-5.49	0.00	-422.33	0.00	422.33	5066.07	1261.43	5417.41	5392.43	0.43	-0.138	0.000	0.085
35.00	-32.41	-5.37	0.00	-394.87	0.00	394.87	4977.70	1229.75	5148.71	5164.19	0.59	-0.162	0.000	0.083
40.00	-30.44	-5.25	0.00	-368.01	0.00	368.01	4887.33	1198.07	4886.85	4938.68	0.77	-0.186	0.000	0.081
44.75	-28.61	-5.12	0.00	-343.08	0.00	343.08	4799.62	1167.97	4644.41	4727.14	0.97	-0.209	0.000	0.079
45.00	-28.46	-5.12	0.00	-341.80	0.00	341.80	4794.96	1166.38	4631.82	4716.08	0.98	-0.211	0.000	0.078
50.00	-25.60	-4.99	0.00	-316.17	0.00	316.17	4700.58	1134.70	4383.63	4496.55	1.22	-0.235	0.000	0.076
51.00	-25.03	-4.96	0.00	-311.19	0.00	311.19	3008.41	819.03	3197.41	2916.07	1.27	-0.240	0.000	0.115
55.00	-23.84	-4.86	0.00	-291.33	0.00	291.33	2970.26	800.93	3057.63	2815.04	1.47	-0.260	0.000	0.112
60.00	-22.38	-4.74	0.00	-267.02	0.00	267.02	2920.78	778.30	2887.29	2689.40	1.76	-0.292	0.000	0.107
65.00	-20.95	-4.61	0.00	-243.34	0.00	243.34	2869.29	755.67	2721.84	2564.65	2.09	-0.325	0.000	0.102
70.00	-19.55	-4.48	0.00	-220.30	0.00	220.30	2815.80	733.04	2561.27	2440.93	2.45	-0.357	0.000	0.097
75.00	-18.19	-4.35	0.00	-197.91	0.00	197.91	2760.31	710.41	2405.58	2318.41	2.84	-0.389	0.000	0.092
80.00	-16.86	-4.22	0.00	-176.16	0.00	176.16	2702.81	687.79	2254.77	2197.26	3.26	-0.420	0.000	0.086
84.75	-15.63	-4.09	0.00	-156.11	0.00	156.11	2646.34	666.29	2116.02	2083.58	3.69	-0.449	0.000	0.081
85.00	-15.53	-4.09	0.00	-155.09	0.00	155.09	2643.31	665.16	2108.84	2077.64	3.72	-0.450	0.000	0.081
89.75	-13.74	-3.96	0.00	-135.65	0.00	135.65	1922.43	522.76	1628.21	1486.68	4.18	-0.479	0.000	0.098
90.00	-13.68	-3.96	0.00	-134.66	0.00	134.66	1920.55	521.86	1622.58	1482.63	4.21	-0.480	0.000	0.098
95.00	-12.59	-3.83	0.00	-114.87	0.00	114.87	1881.78	503.75	1511.96	1401.97	4.73	-0.514	0.000	0.089
100.00	-11.52	-3.71	0.00	-95.71	0.00	95.71	1841.02	485.65	1405.24	1321.97	5.28	-0.545	0.000	0.079
105.00	-10.49	-3.58	0.00	-77.18	0.00	77.18	1798.25	467.55	1302.43	1242.79	5.87	-0.574	0.000	0.068
110.00	-9.48	-3.46	0.00	-59.28	0.00	59.28	1753.48	449.44	1203.53	1164.58	6.48	-0.600	0.000	0.056
115.00	-8.50	-3.33	0.00	-42.00	0.00	42.00	1706.70	431.34	1108.53	1087.50	7.13	-0.621	0.000	0.044
117.00	-8.51	-2.13	0.00	-35.33	0.00	35.33	1687.43	424.10	1071.62	1057.03	7.39	-0.628	0.000	0.038
120.00	-7.97	-2.06	0.00	-28.94	0.00	28.94	1657.93	413.24	1017.43	1011.73	7.79	-0.638	0.000	0.033
125.00	-7.10	-1.94	0.00	-18.65	0.00	18.65	1607.15	395.13	930.24	937.42	8.46	-0.651	0.000	0.024
126.00	-6.92	-1.92	0.00	-16.71	0.00	16.71	1596.75	391.51	913.27	922.75	8.60	-0.653	0.000	0.022
127.00	-2.35	-1.18	0.00	-14.79	0.00	14.79	1586.28	387.89	896.46	908.14	8.74	-0.655	0.000	0.018
129.75	-1.74	-1.12	0.00	-11.54	0.00	11.54	1068.62	288.02	659.01	607.00	9.11	-0.660	0.000	0.021
130.00	-1.71	-1.11	0.00	-11.26	0.00	11.26	1067.16	287.34	655.91	604.73	9.15	-0.660	0.000	0.020
135.00	-1.08	-1.00	0.00	-5.71	0.00	5.71	1036.93	273.77	595.39	559.65	9.85	-0.668	0.000	0.011
139.00	-1.09	-0.22	0.00	-1.70	0.00	1.70	1011.29	262.90	549.08	524.00	10.41	-0.671	0.000	0.004
140.00	-0.98	-0.20	0.00	-1.48	0.00	1.48	1004.68	260.19	537.80	515.16	10.55	-0.672	0.000	0.004
145.00	-0.48	-0.10	0.00	-0.49	0.00	0.49	970.44	246.61	483.13	471.44	11.25	-0.673	0.000	0.002
150.00	0.00	-0.09	0.00	0.00	0.00	0.00	934.20	233.03	431.40	428.65	11.96	-0.673	0.000	0.000

Seismic Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 26
	Struct Class: II	



Load Case: 1.2D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10	Sds	0.18		Iterations	20
Dead Load Factor	1.20	Seismic Load Factor	1.00		Ss	0.17
Wind Load Factor	0.00	Structure Frequency (f1)	0.41		S1	0.05
		SA	0.04		Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)		R: 1.50
0.00		0.00	0.00	0.00	0.00		
5.00		1608.3	2.50	56.61	0.02		
10.00		1577.5	7.50	55.53	0.18		
15.00		1546.8	12.50	54.45	0.47		
20.00		1516.1	17.50	53.37	0.88		
25.00		1485.4	22.50	52.29	1.38		
30.00		1454.7	27.50	51.21	1.96		
35.00		1424.0	32.50	50.13	2.61		
40.00		1393.3	37.50	49.04	3.31		
44.75	Bot - Section 2	1295.2	42.38	45.59	3.64		
45.00		108.44	44.88	3.82	0.03		
50.00		2141.2	47.50	75.37	12.14		
51.00	Top - Section 1	421.93	50.50	14.85	0.57		
55.00		801.38	53.00	28.21	2.21		
60.00		981.98	57.50	34.57	3.85		
65.00		960.04	62.50	33.79	4.33		
70.00		938.11	67.50	33.02	4.81		
75.00		916.17	72.50	32.25	5.28		
80.00		894.23	77.50	31.48	5.74		
84.75	Bot - Section 3	829.20	82.38	29.19	5.58		
85.00		69.29	84.88	2.44	0.05		
89.75	Top - Section 2	1297.7	87.38	45.68	15.01		
90.00		36.14	89.88	1.27	0.01		
95.00		713.62	92.50	25.12	5.22		
100.00		696.07	97.50	24.50	5.51		
105.00		678.52	102.50	23.88	5.78		
110.00		660.97	107.50	23.27	6.03		
115.00		643.42	112.50	22.65	6.25		
117.00	Appurtenance(s)	5344.5	116.00	188.13	413.89		
120.00		347.21	118.50	12.22	2.07		
125.00		564.64	122.50	19.88	5.72		
126.00	Bot - Section 4	110.82	125.50	3.90	0.25		
127.00	Appurtenance(s)	2749.6	126.50	96.79	133.92		
129.75	Top - Section 3	407.10	128.38	14.33	3.31		
130.00		18.25	129.88	0.64	0.01		
135.00		358.10	132.50	12.61	2.74		
139.00	Appurtenance(s)	2811.5	137.00	98.97	163.42		
140.00		52.29	139.50	1.84	0.07		
145.00		253.54	142.50	8.92	1.61		
150.00		240.37	147.50	8.46	1.55		
Totals:		40,348.3		1,420.3	831.4		Total Wind: 21,745.5

Calculated Forces

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 1.2D + 1.0Ev + 1.0Eh						Iterations 20
Gust Response Factor	1.10			Sds	0.18	Ss 0.17
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1 0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.41	SA	0.04	Seismic Importance Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.71	-0.83	0.00	-101.22	0.00	101.22	5554.25	1451.51	7173.10	6810.41	0.00	0.00	0.00	0.024
5.00	-46.77	-0.84	0.00	-97.06	0.00	97.06	5477.89	1419.83	6863.40	6569.12	0.00	0.00	0.00	0.023
10.00	-44.86	-0.84	0.00	-92.88	0.00	92.88	5399.54	1388.15	6560.53	6329.59	0.01	-0.01	0.00	0.023
15.00	-42.99	-0.84	0.00	-88.69	0.00	88.69	5319.17	1356.47	6264.50	6092.00	0.02	-0.01	0.00	0.023
20.00	-41.17	-0.84	0.00	-84.48	0.00	84.48	5236.81	1324.79	5975.30	5856.50	0.03	-0.02	0.00	0.022
25.00	-39.37	-0.84	0.00	-80.27	0.00	80.27	5152.44	1293.11	5692.94	5623.26	0.05	-0.02	0.00	0.022
30.00	-37.62	-0.84	0.00	-76.06	0.00	76.06	5066.07	1261.43	5417.41	5392.43	0.07	-0.02	0.00	0.022
35.00	-35.90	-0.84	0.00	-71.84	0.00	71.84	4977.70	1229.75	5148.71	5164.19	0.10	-0.03	0.00	0.021
40.00	-34.23	-0.84	0.00	-67.63	0.00	67.63	4887.33	1198.07	4886.85	4938.68	0.13	-0.03	0.00	0.021
44.75	-32.67	-0.84	0.00	-63.63	0.00	63.63	4799.62	1167.97	4644.41	4727.14	0.17	-0.04	0.00	0.020
45.00	-32.54	-0.84	0.00	-63.42	0.00	63.42	4794.96	1166.38	4631.82	4716.08	0.17	-0.04	0.00	0.020
50.00	-29.93	-0.83	0.00	-59.23	0.00	59.23	4700.58	1134.70	4383.63	4496.55	0.21	-0.04	0.00	0.020
51.00	-29.42	-0.83	0.00	-58.40	0.00	58.40	3008.41	819.03	3197.41	2916.07	0.22	-0.04	0.00	0.030
55.00	-28.47	-0.83	0.00	-55.10	0.00	55.10	2970.26	800.93	3057.63	2815.04	0.26	-0.05	0.00	0.029
60.00	-27.30	-0.82	0.00	-50.97	0.00	50.97	2920.78	778.30	2887.29	2689.40	0.31	-0.05	0.00	0.028
65.00	-26.15	-0.82	0.00	-46.84	0.00	46.84	2869.29	755.67	2721.84	2564.65	0.37	-0.06	0.00	0.027
70.00	-25.04	-0.82	0.00	-42.74	0.00	42.74	2815.80	733.04	2561.27	2440.93	0.44	-0.07	0.00	0.026
75.00	-23.95	-0.81	0.00	-38.64	0.00	38.64	2760.31	710.41	2405.58	2318.41	0.51	-0.07	0.00	0.025
80.00	-22.89	-0.81	0.00	-34.57	0.00	34.57	2702.81	687.79	2254.77	2197.26	0.58	-0.08	0.00	0.024
84.75	-21.91	-0.80	0.00	-30.73	0.00	30.73	2646.34	666.29	2116.02	2083.58	0.66	-0.08	0.00	0.023
85.00	-21.82	-0.80	0.00	-30.53	0.00	30.53	2643.31	665.16	2108.84	2077.64	0.67	-0.08	0.00	0.023
89.75	-20.26	-0.79	0.00	-26.70	0.00	26.70	1922.43	522.76	1628.21	1486.68	0.76	-0.09	0.00	0.029
90.00	-20.22	-0.79	0.00	-26.51	0.00	26.51	1920.55	521.86	1622.58	1482.63	0.76	-0.09	0.00	0.028
95.00	-19.38	-0.79	0.00	-22.56	0.00	22.56	1881.78	503.75	1511.96	1401.97	0.86	-0.10	0.00	0.026
100.00	-18.56	-0.78	0.00	-18.63	0.00	18.63	1841.02	485.65	1405.24	1321.97	0.96	-0.10	0.00	0.024
105.00	-17.77	-0.77	0.00	-14.73	0.00	14.73	1798.25	467.55	1302.43	1242.79	1.07	-0.11	0.00	0.022
110.00	-17.00	-0.77	0.00	-10.86	0.00	10.86	1753.48	449.44	1203.53	1164.58	1.19	-0.11	0.00	0.019
115.00	-16.24	-0.76	0.00	-7.02	0.00	7.02	1706.70	431.34	1108.53	1087.50	1.31	-0.12	0.00	0.016
117.00	-9.66	-0.33	0.00	-5.49	0.00	5.49	1687.43	424.10	1071.62	1057.03	1.36	-0.12	0.00	0.011
120.00	-9.25	-0.33	0.00	-4.49	0.00	4.49	1657.93	413.24	1017.43	1011.73	1.43	-0.12	0.00	0.010
125.00	-8.59	-0.32	0.00	-2.83	0.00	2.83	1607.15	395.13	930.24	937.42	1.56	-0.12	0.00	0.008
126.00	-8.46	-0.32	0.00	-2.51	0.00	2.51	1596.75	391.51	913.27	922.75	1.58	-0.12	0.00	0.008
127.00	-5.07	-0.18	0.00	-2.18	0.00	2.18	1586.28	387.89	896.46	908.14	1.61	-0.12	0.00	0.006
129.75	-4.58	-0.18	0.00	-1.68	0.00	1.68	1068.62	288.02	659.01	607.00	1.68	-0.12	0.00	0.007
130.00	-4.55	-0.18	0.00	-1.63	0.00	1.63	1067.16	287.34	655.91	604.73	1.68	-0.12	0.00	0.007
135.00	-4.13	-0.18	0.00	-0.74	0.00	0.74	1036.93	273.77	595.39	559.65	1.81	-0.12	0.00	0.005
139.00	-0.67	0.00	0.00	-0.04	0.00	0.04	1011.29	262.90	549.08	524.00	1.92	-0.12	0.00	0.001
140.00	-0.61	0.00	0.00	-0.03	0.00	0.03	1004.68	260.19	537.80	515.16	1.94	-0.12	0.00	0.001
145.00	-0.30	0.00	0.00	-0.01	0.00	0.01	970.44	246.61	483.13	471.44	2.07	-0.12	0.00	0.000
150.00	0.00	0.00	0.00	0.00	0.00	0.00	934.20	233.03	431.40	428.65	2.20	-0.12	0.00	0.000

Seismic Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor 1.10	Sds 0.18		Iterations 20
Dead Load Factor 0.90	Seismic Load Factor 1.00		Ss 0.17
Wind Load Factor 0.00	Structure Frequency (f1) 0.41		S1 0.05
	SA 0.04		Seismic Importance Factor 1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	
0.00		0.00	0.00	0.00	0.00	
5.00		1554.1	2.50	54.71	0.02	
10.00		1523.4	7.50	53.63	0.17	
15.00		1492.7	12.50	52.54	0.45	
20.00		1462.0	17.50	51.46	0.84	
25.00		1431.3	22.50	50.38	1.31	
30.00		1400.6	27.50	49.30	1.86	
35.00		1369.9	32.50	48.22	2.47	
40.00		1339.1	37.50	47.14	3.13	
44.75	Bot - Section 2	1243.7	42.38	43.78	3.44	
45.00		105.74	44.88	3.72	0.03	
50.00		2087.1	47.50	73.47	11.81	
51.00	Top - Section 1	411.11	50.50	14.47	0.56	
55.00		758.08	53.00	26.68	2.02	
60.00		927.86	57.50	32.66	3.52	
65.00		905.92	62.50	31.89	3.96	
70.00		883.98	67.50	31.12	4.38	
75.00		862.05	72.50	30.34	4.80	
80.00		840.11	77.50	29.57	5.20	
84.75	Bot - Section 3	777.78	82.38	27.38	5.04	
85.00		66.58	84.88	2.34	0.04	
89.75	Top - Section 2	1246.3	87.38	43.87	14.19	
90.00		33.44	89.88	1.18	0.01	
95.00		659.50	92.50	23.21	4.58	
100.00		641.95	97.50	22.60	4.81	
105.00		624.40	102.50	21.98	5.03	
110.00		606.85	107.50	21.36	5.22	
115.00		589.30	112.50	20.74	5.38	
117.00	Appurtenance(s)	5322.9	116.00	187.37	419.93	
120.00		321.29	118.50	11.31	1.82	
125.00		521.44	122.50	18.35	5.01	
126.00	Bot - Section 4	102.18	125.50	3.60	0.22	
127.00	Appurtenance(s)	2741.0	126.50	96.48	136.11	
129.75	Top - Section 3	395.26	128.38	13.91	3.19	
130.00		17.17	129.88	0.60	0.01	
135.00		336.57	132.50	11.85	2.48	
139.00	Appurtenance(s)	2794.3	137.00	98.36	165.13	
140.00		51.89	139.50	1.83	0.07	
145.00		251.57	142.50	8.86	1.62	
150.00		238.40	147.50	8.39	1.56	
Totals:		38,939.4		1,370.7	831.4	Total Wind: 21,745.5

Calculated Forces

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

12/7/2023

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Load Case: 0.9D + 1.0Ev + 1.0Eh						Iterations 20
Gust Response Factor	1.10	Sds	0.18	Ss	0.17	
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.09	
Wind Load Factor	0.00	Structure Frequency (f1)	0.41	SA	0.04	

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.84	-0.83	0.00	-100.80	0.00	100.80	5554.25	1451.51	7173.10	6810.41	0.00	0.00	0.00	0.021
5.00	-35.37	-0.83	0.00	-96.64	0.00	96.64	5477.89	1419.83	6863.40	6569.12	0.00	0.00	0.00	0.021
10.00	-33.93	-0.84	0.00	-92.47	0.00	92.47	5399.54	1388.15	6560.53	6329.59	0.01	-0.01	-0.01	0.021
15.00	-32.52	-0.84	0.00	-88.28	0.00	88.28	5319.17	1356.47	6264.50	6092.00	0.02	-0.01	-0.01	0.021
20.00	-31.13	-0.84	0.00	-84.09	0.00	84.09	5236.81	1324.79	5975.30	5856.50	0.03	-0.02	-0.02	0.020
25.00	-29.78	-0.84	0.00	-79.90	0.00	79.90	5152.44	1293.11	5692.94	5623.26	0.05	-0.02	-0.02	0.020
30.00	-28.45	-0.84	0.00	-75.70	0.00	75.70	5066.07	1261.43	5417.41	5392.43	0.07	-0.02	-0.02	0.020
35.00	-27.15	-0.84	0.00	-71.50	0.00	71.50	4977.70	1229.75	5148.71	5164.19	0.10	-0.03	-0.03	0.019
40.00	-25.88	-0.84	0.00	-67.31	0.00	67.31	4887.33	1198.07	4886.85	4938.68	0.13	-0.03	-0.03	0.019
44.75	-24.71	-0.83	0.00	-63.34	0.00	63.34	4799.62	1167.97	4644.41	4727.14	0.17	-0.04	-0.04	0.019
45.00	-24.61	-0.83	0.00	-63.13	0.00	63.13	4794.96	1166.38	4631.82	4716.08	0.17	-0.04	-0.04	0.019
50.00	-22.64	-0.82	0.00	-58.96	0.00	58.96	4700.58	1134.70	4383.63	4496.55	0.21	-0.04	-0.04	0.018
51.00	-22.25	-0.82	0.00	-58.14	0.00	58.14	3008.41	819.03	3197.41	2916.07	0.22	-0.04	-0.04	0.027
55.00	-21.53	-0.82	0.00	-54.85	0.00	54.85	2970.26	800.93	3057.63	2815.04	0.26	-0.05	-0.05	0.027
60.00	-20.64	-0.82	0.00	-50.74	0.00	50.74	2920.78	778.30	2887.29	2689.40	0.31	-0.05	-0.05	0.026
65.00	-19.78	-0.82	0.00	-46.65	0.00	46.65	2869.29	755.67	2721.84	2564.65	0.37	-0.06	-0.06	0.025
70.00	-18.94	-0.81	0.00	-42.56	0.00	42.56	2815.80	733.04	2561.27	2440.93	0.43	-0.06	-0.06	0.024
75.00	-18.12	-0.81	0.00	-38.50	0.00	38.50	2760.31	710.41	2405.58	2318.41	0.50	-0.07	-0.07	0.023
80.00	-17.31	-0.81	0.00	-34.45	0.00	34.45	2702.81	687.79	2254.77	2197.26	0.58	-0.08	-0.08	0.022
84.75	-16.57	-0.80	0.00	-30.62	0.00	30.62	2646.34	666.29	2116.02	2083.58	0.66	-0.08	-0.08	0.021
85.00	-16.51	-0.80	0.00	-30.42	0.00	30.42	2643.31	665.16	2108.84	2077.64	0.67	-0.08	-0.08	0.021
89.75	-15.33	-0.79	0.00	-26.62	0.00	26.62	1922.43	522.76	1628.21	1486.68	0.75	-0.09	-0.09	0.026
90.00	-15.29	-0.79	0.00	-26.42	0.00	26.42	1920.55	521.86	1622.58	1482.63	0.76	-0.09	-0.09	0.026
95.00	-14.66	-0.78	0.00	-22.49	0.00	22.49	1881.78	503.75	1511.96	1401.97	0.85	-0.10	-0.10	0.024
100.00	-14.04	-0.78	0.00	-18.58	0.00	18.58	1841.02	485.65	1405.24	1321.97	0.96	-0.10	-0.10	0.022
105.00	-13.44	-0.77	0.00	-14.69	0.00	14.69	1798.25	467.55	1302.43	1242.79	1.07	-0.11	-0.11	0.019
110.00	-12.86	-0.77	0.00	-10.82	0.00	10.82	1753.48	449.44	1203.53	1164.58	1.18	-0.11	-0.11	0.017
115.00	-12.29	-0.76	0.00	-6.98	0.00	6.98	1706.70	431.34	1108.53	1087.50	1.30	-0.12	-0.12	0.014
117.00	-7.31	-0.33	0.00	-5.46	0.00	5.46	1687.43	424.10	1071.62	1057.03	1.35	-0.12	-0.12	0.009
120.00	-7.00	-0.33	0.00	-4.47	0.00	4.47	1657.93	413.24	1017.43	1011.73	1.42	-0.12	-0.12	0.007
125.00	-6.50	-0.32	0.00	-2.82	0.00	2.82	1607.15	395.13	930.24	937.42	1.55	-0.12	-0.12	0.007
126.00	-6.40	-0.32	0.00	-2.49	0.00	2.49	1596.75	391.51	913.27	922.75	1.57	-0.12	-0.12	0.007
127.00	-3.84	-0.18	0.00	-2.17	0.00	2.17	1586.28	387.89	896.46	908.14	1.60	-0.12	-0.12	0.005
129.75	-3.46	-0.18	0.00	-1.67	0.00	1.67	1068.62	288.02	659.01	607.00	1.67	-0.12	-0.12	0.006
130.00	-3.45	-0.18	0.00	-1.62	0.00	1.62	1067.16	287.34	655.91	604.73	1.68	-0.12	-0.12	0.006
135.00	-3.13	-0.17	0.00	-0.73	0.00	0.73	1036.93	273.77	595.39	559.65	1.80	-0.12	-0.12	0.004
139.00	-0.51	0.00	0.00	-0.03	0.00	0.03	1011.29	262.90	549.08	524.00	1.91	-0.12	-0.12	0.001
140.00	-0.46	0.00	0.00	-0.03	0.00	0.03	1004.68	260.19	537.80	515.16	1.93	-0.12	-0.12	0.001
145.00	-0.22	0.00	0.00	-0.01	0.00	0.01	970.44	246.61	483.13	471.44	2.06	-0.12	-0.12	0.000
150.00	0.00	0.00	0.00	0.00	0.00	0.00	934.20	233.03	431.40	428.65	2.19	-0.12	-0.12	0.000

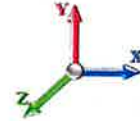
Wind Loading - Shaft

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 21

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	5.259	5.78	249.60	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	5.259	5.78	244.19	0.730	0.000	5.00	25.111	18.33	106.0	0.0	1391.8
10.00		1.00	0.70	5.259	5.78	238.78	0.730	0.000	5.00	24.561	17.93	103.7	0.0	1361.1
15.00		1.00	0.70	5.259	5.78	233.37	0.730	0.000	5.00	24.011	17.53	101.4	0.0	1330.4
20.00		1.00	0.70	5.259	5.78	227.97	0.730	0.000	5.00	23.461	17.13	99.1	0.0	1299.7
25.00		1.00	0.70	5.259	5.78	222.56	0.730	0.000	5.00	22.911	16.72	96.8	0.0	1269.0
30.00		1.00	0.70	5.263	5.79	217.24	0.730	0.000	5.00	22.361	16.32	94.5	0.0	1238.2
35.00		1.00	0.73	5.500	6.05	216.55	0.730	0.000	5.00	21.811	15.92	96.3	0.0	1207.5
40.00		1.00	0.76	5.714	6.29	215.08	0.730	0.000	5.00	21.260	15.52	97.6	0.0	1176.8
44.75 Bot - Section 2		1.00	0.79	5.901	6.49	213.12	0.730	0.000	4.75	19.688	14.37	93.3	0.0	1089.5
45.00		1.00	0.79	5.910	6.50	213.00	0.730	0.000	0.25	1.036	0.76	4.9	0.0	97.6
50.00		1.00	0.81	6.091	6.70	210.41	0.730	0.000	5.00	20.425	14.91	99.9	0.0	1924.8
51.00 Top - Section 1		1.00	0.82	6.125	6.74	209.84	0.730	0.000	1.00	4.019	2.93	19.8	0.0	378.6
55.00		1.00	0.83	6.259	6.88	210.23	0.730	0.000	4.00	15.856	11.57	79.7	0.0	628.2
60.00		1.00	0.85	6.416	7.06	206.89	0.730	0.000	5.00	19.325	14.11	99.6	0.0	765.5
65.00		1.00	0.87	6.565	7.22	203.22	0.730	0.000	5.00	18.775	13.71	99.0	0.0	743.6
70.00		1.00	0.89	6.705	7.38	199.28	0.730	0.000	5.00	18.225	13.30	98.1	0.0	721.6
75.00		1.00	0.91	6.839	7.52	195.09	0.730	0.000	5.00	17.675	12.90	97.1	0.0	699.7
80.00		1.00	0.93	6.966	7.66	190.67	0.730	0.000	5.00	17.125	12.50	95.8	0.0	677.7
84.75 Bot - Section 3		1.00	0.94	7.082	7.79	186.29	0.730	0.000	4.75	15.759	11.50	89.6	0.0	623.5
85.00		1.00	0.94	7.088	7.80	186.05	0.730	0.000	0.25	0.826	0.60	4.7	0.0	58.5
89.75 Top - Section 2		1.00	0.96	7.199	7.92	181.49	0.730	0.000	4.75	15.437	11.27	89.2	0.0	1092.1
90.00		1.00	0.96	7.204	7.92	183.68	0.730	0.000	0.25	0.799	0.58	4.6	0.0	25.3
95.00		1.00	0.97	7.316	8.05	178.73	0.730	0.000	5.00	15.686	11.45	92.2	0.0	497.1
100.00		1.00	0.99	7.424	8.17	173.61	0.730	0.000	5.00	15.136	11.05	90.2	0.0	479.6
105.00		1.00	1.00	7.529	8.28	168.36	0.730	0.000	5.00	14.586	10.65	88.2	0.0	462.0
110.00		1.00	1.02	7.629	8.39	162.97	0.730	0.000	5.00	14.036	10.25	86.0	0.0	444.5
115.00		1.00	1.03	7.727	8.50	157.45	0.730	0.000	5.00	13.486	9.84	83.7	0.0	426.9
117.00 Appurtenance(s)		1.00	1.03	7.765	8.54	155.21	0.730	0.000	2.00	5.240	3.83	32.7	0.0	165.9
120.00		1.00	1.04	7.821	8.60	151.82	0.730	0.000	3.00	7.696	5.62	48.3	0.0	243.5
125.00		1.00	1.05	7.913	8.70	146.07	0.730	0.000	5.00	12.386	9.04	78.7	0.0	391.8
126.00 Bot - Section 4		1.00	1.06	7.931	8.72	144.91	0.730	0.000	1.00	2.411	1.76	15.4	0.0	76.3
127.00 Appurtenance(s)		1.00	1.06	7.949	8.74	143.74	0.730	0.000	1.00	2.421	1.77	15.5	0.0	133.1
129.75 Top - Section 3		1.00	1.06	7.998	8.80	140.51	0.730	0.000	2.75	6.544	4.78	42.0	0.0	359.7
130.00		1.00	1.07	8.002	8.80	142.14	0.730	0.000	0.25	0.587	0.43	3.8	0.0	13.9
135.00		1.00	1.08	8.089	8.90	136.20	0.730	0.000	5.00	11.445	8.35	74.3	0.0	272.0
139.00 Appurtenance(s)		1.00	1.09	8.157	8.97	131.39	0.730	0.000	4.00	8.760	6.39	57.4	0.0	208.1
140.00		1.00	1.09	8.174	8.99	130.17	0.730	0.000	1.00	2.135	1.56	14.0	0.0	50.7
145.00		1.00	1.10	8.256	9.08	124.05	0.730	0.000	5.00	10.345	7.55	68.6	0.0	245.7
150.00		1.00	1.11	8.336	9.17	117.84	0.730	0.000	5.00	9.795	7.15	65.6	0.0	232.5
Totals:									150.00			2,727.1		24,504.2

Discrete Appurtenance Forces

Structure: CT13613-A-VZW
Site Name: Johnson
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

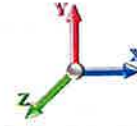
12/7/2023

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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 21

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	139.00	Powerwave LGP 13519	6	8.157	8.973	0.50	0.75	0.87	31.80	0.000	0.000	7.85	0.00	0.00
2	139.00	Powerwave 7770	6	8.157	8.973	0.55	0.75	18.07	210.00	0.000	0.000	162.11	0.00	0.00
3	139.00	Kathrein 800 10764	1	8.157	8.973	0.75	0.75	4.41	40.80	0.000	0.000	39.57	0.00	0.00
4	139.00	KMW	2	8.157	8.973	0.68	0.75	10.83	97.00	0.000	0.000	97.15	0.00	0.00
5	139.00	Powerwave LGP 21401	6	8.157	8.973	0.50	0.75	2.47	105.00	0.000	0.000	22.18	0.00	0.00
6	139.00	Mount pipe	12	8.157	8.973	0.75	0.75	14.40	363.84	0.000	0.000	129.21	0.00	0.00
7	139.00	Ericsson RRUS 11	6	8.157	8.973	0.50	0.75	7.60	304.20	0.000	0.000	68.17	0.00	0.00
8	139.00	Raycap DC6-48-60-18-8F	1	8.157	8.973	0.75	0.75	0.69	31.80	0.000	0.000	6.19	0.00	0.00
9	139.00	Commscope	1	8.157	8.973	0.73	0.75	0.04	1.10	0.000	0.000	0.33	0.00	0.00
10	139.00	Low Profile Platform	1	8.157	8.973	1.00	1.00	17.49	1349.00	0.000	0.000	156.93	0.00	0.00
11	127.00	Raycap	1	7.949	8.744	0.75	0.75	3.04	32.00	0.000	0.000	26.63	0.00	0.00
12	127.00	Samsung RF4461d-13A	3	7.949	8.744	0.50	0.75	2.82	237.30	0.000	0.000	24.65	0.00	0.00
13	127.00	Samsung B2/B66A RRH	3	7.949	8.744	0.50	0.75	2.82	224.10	0.000	0.000	24.65	0.00	0.00
14	127.00	Samsung MT6413-77A	3	7.949	8.744	0.52	0.75	5.88	171.90	0.000	0.000	51.45	0.00	0.00
15	127.00	Commscope	3	7.949	8.744	0.38	0.75	2.21	158.70	0.000	0.000	19.28	0.00	0.00
16	127.00	Commscope	6	7.949	8.744	0.62	0.75	30.51	258.00	0.000	0.000	266.83	0.00	0.00
17	127.00	Low Profile Platform	1	7.949	8.744	1.00	1.00	28.90	1500.00	0.000	0.000	252.70	0.00	0.00
18	117.00	4460 B25 + B66	4	7.765	8.542	0.50	0.75	5.73	416.00	0.000	0.000	48.93	0.00	0.00
19	117.00	VV-65B-R1	4	7.765	8.542	0.55	0.75	17.54	111.60	0.000	0.000	149.80	0.00	0.00
20	117.00	APXVAALL24_43-U-NA20	4	7.765	8.542	0.55	0.75	44.33	491.20	0.000	0.000	378.61	0.00	0.00
21	117.00	AIR6419 B41	4	7.765	8.542	0.53	0.75	12.03	333.20	0.000	0.000	102.79	0.00	0.00
22	117.00	F4P-HRK10	1	7.765	8.542	0.75	0.75	6.20	487.00	0.000	0.000	52.92	0.00	0.00
23	117.00	Ericsson 4480 B71 + B85	4	7.765	8.542	0.50	0.75	5.73	372.00	0.000	0.000	48.93	0.00	0.00
24	117.00	SitePro F4P-10W	1	7.765	8.542	0.75	0.75	33.95	2396.00	0.000	0.000	289.94	0.00	0.00
25	117.00	Mount pipes	16	7.765	8.542	0.75	0.75	16.56	485.12	0.000	0.000	141.45	0.00	0.00
Totals:								10,208.66				2,569.24		

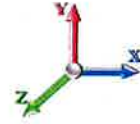
Total Applied Force Summary

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 32



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 21

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		106.04	1572.22	0.00	0.00
10.00		103.72	1541.50	0.00	0.00
15.00		101.40	1510.79	0.00	0.00
20.00		99.07	1480.08	0.00	0.00
25.00		96.75	1449.37	0.00	0.00
30.00		94.51	1418.65	0.00	0.00
35.00		96.33	1387.94	0.00	0.00
40.00		97.56	1357.23	0.00	0.00
44.75		93.28	1260.92	0.00	0.00
45.00		4.92	106.64	0.00	0.00
50.00		99.89	2105.17	0.00	0.00
51.00		19.77	414.72	0.00	0.00
55.00		79.69	772.51	0.00	0.00
60.00		99.57	945.90	0.00	0.00
65.00		98.97	923.96	0.00	0.00
70.00		98.13	902.02	0.00	0.00
75.00		97.06	880.09	0.00	0.00
80.00		95.79	858.15	0.00	0.00
84.75		89.61	794.92	0.00	0.00
85.00		4.70	67.48	0.00	0.00
89.75		89.24	1263.45	0.00	0.00
90.00		4.62	34.34	0.00	0.00
95.00		92.16	677.54	0.00	0.00
100.00		90.24	659.99	0.00	0.00
105.00		88.18	642.44	0.00	0.00
110.00		85.99	624.89	0.00	0.00
115.00		83.68	607.34	0.00	0.00
117.00	(38) attachments	1246.05	5330.14	0.00	0.00
120.00		48.33	329.93	0.00	0.00
125.00		78.71	535.84	0.00	0.00
126.00		15.36	105.06	0.00	0.00
127.00	(20) attachments	681.64	2743.92	0.00	0.00
129.75		42.03	399.20	0.00	0.00
130.00		3.77	17.53	0.00	0.00
135.00		74.34	343.75	0.00	0.00
139.00	(42) attachments	747.06	2800.06	0.00	0.00
140.00		14.01	52.02	0.00	0.00
145.00		68.58	252.22	0.00	0.00
150.00		65.57	239.06	0.00	0.00
Totals:		5,296.30	39,409.03	0.00	0.00

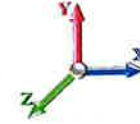
Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 33



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	5.259	0.00	1.37
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	5.259	0.00	5.20
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	5.259	0.00	1.37
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	5.259	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	5.259	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	5.259	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	5.259	0.00	1.37
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	5.259	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	5.259	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	5.259	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	5.263	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	5.263	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	5.500	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	5.500	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	5.714	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	5.714	0.00	5.20
44.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.020	0.000	5.901	0.00	1.30
44.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.020	0.000	5.901	0.00	4.94
45.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.021	0.000	5.910	0.00	0.07
45.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.021	0.000	5.910	0.00	0.26
50.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	6.091	0.00	1.37
50.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	6.091	0.00	5.20
51.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.021	0.000	6.125	0.00	0.27
51.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.021	0.000	6.125	0.00	1.04
55.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.021	0.000	6.259	0.00	1.09
55.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.021	0.000	6.259	0.00	4.16
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	6.416	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	6.416	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	6.565	0.00	1.37
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	6.565	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	6.705	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	6.705	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	6.839	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	6.839	0.00	5.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	6.966	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	6.966	0.00	5.20
84.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.025	0.000	7.082	0.00	1.30
84.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.025	0.000	7.082	0.00	4.94
85.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.026	0.000	7.088	0.00	0.07
85.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.026	0.000	7.088	0.00	0.26
89.75	Safety Cable	Yes	4.75	0.000	0.38	0.15	0.00	0.026	0.000	7.199	0.00	1.30
89.75	Step bolts (ladder)	Yes	4.75	0.000	0.63	0.25	0.00	0.026	0.000	7.199	0.00	4.94
90.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.026	0.000	7.204	0.00	0.07
90.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.026	0.000	7.204	0.00	0.26
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	7.316	0.00	1.37
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	7.316	0.00	5.20
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	7.424	0.00	1.37

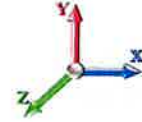
Linear Appurtenance Segment Forces (Factored)

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	7.424	0.00	5.20
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	7.529	0.00	1.37
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	7.529	0.00	5.20
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	7.629	0.00	1.37
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	7.629	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	7.727	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	7.727	0.00	5.20
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.032	0.000	7.765	0.00	0.55
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.032	0.000	7.765	0.00	2.08
120.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.033	0.000	7.821	0.00	0.82
120.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.033	0.000	7.821	0.00	3.12
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.034	0.000	7.913	0.00	1.37
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.034	0.000	7.913	0.00	5.20
126.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	7.931	0.00	0.27
126.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	7.931	0.00	1.04
127.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.035	0.000	7.949	0.00	0.27
127.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.035	0.000	7.949	0.00	1.04
129.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.036	0.000	7.998	0.00	0.75
129.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.036	0.000	7.998	0.00	2.86
130.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.036	0.000	8.002	0.00	0.07
130.00	Step bolts (ladder)	Yes	0.25	0.000	0.63	0.01	0.00	0.036	0.000	8.002	0.00	0.26
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	8.089	0.00	1.37
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	8.089	0.00	5.20
139.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.038	0.000	8.157	0.00	1.09
139.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.038	0.000	8.157	0.00	4.16
140.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	8.174	0.00	0.27
140.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	8.174	0.00	1.04
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.041	0.000	8.256	0.00	1.37
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.041	0.000	8.256	0.00	5.20
150.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.043	0.000	8.336	0.00	1.37
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.043	0.000	8.336	0.00	5.20
Totals:											0.0	196.9

Calculated Forces

Structure: CT13613-A-VZW

Code: TIA-222-H

12/7/2023

Site Name: Johnson

Exposure: B

Height: 150.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

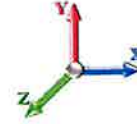
Page: 35



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 21

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-39.41	-5.30	0.00	-532.71	0.00	532.71	5554.25	1451.51	7173.10	6810.41	0.00	0.000	0.000	0.085
5.00	-37.83	-5.21	0.00	-506.20	0.00	506.20	5477.89	1419.83	6863.40	6569.12	0.01	-0.020	0.000	0.084
10.00	-36.29	-5.12	0.00	-480.15	0.00	480.15	5399.54	1388.15	6560.53	6329.59	0.04	-0.040	0.000	0.083
15.00	-34.78	-5.03	0.00	-454.56	0.00	454.56	5319.17	1356.47	6264.50	6092.00	0.10	-0.061	0.000	0.081
20.00	-33.30	-4.94	0.00	-429.42	0.00	429.42	5236.81	1324.79	5975.30	5856.50	0.17	-0.081	0.000	0.080
25.00	-31.85	-4.85	0.00	-404.73	0.00	404.73	5152.44	1293.11	5692.94	5623.26	0.27	-0.102	0.000	0.078
30.00	-30.43	-4.77	0.00	-380.47	0.00	380.47	5066.07	1261.43	5417.41	5392.43	0.39	-0.124	0.000	0.077
35.00	-29.04	-4.68	0.00	-356.64	0.00	356.64	4977.70	1229.75	5148.71	5164.19	0.53	-0.145	0.000	0.075
40.00	-27.68	-4.59	0.00	-333.26	0.00	333.26	4887.33	1198.07	4886.85	4938.68	0.69	-0.167	0.000	0.073
44.75	-26.42	-4.49	0.00	-311.47	0.00	311.47	4799.62	1167.97	4644.41	4727.14	0.87	-0.188	0.000	0.071
45.00	-26.31	-4.49	0.00	-310.35	0.00	310.35	4794.96	1166.38	4631.82	4716.08	0.88	-0.189	0.000	0.071
50.00	-24.20	-4.39	0.00	-287.88	0.00	287.88	4700.58	1134.70	4383.63	4496.55	1.09	-0.211	0.000	0.069
51.00	-23.79	-4.38	0.00	-283.49	0.00	283.49	3008.41	819.03	3197.41	2916.07	1.13	-0.216	0.000	0.105
55.00	-23.01	-4.30	0.00	-265.98	0.00	265.98	2970.26	800.93	3057.63	2815.04	1.32	-0.234	0.000	0.102
60.00	-22.07	-4.21	0.00	-244.47	0.00	244.47	2920.78	778.30	2887.29	2689.40	1.58	-0.264	0.000	0.098
65.00	-21.14	-4.12	0.00	-223.42	0.00	223.42	2869.29	755.67	2721.84	2564.65	1.87	-0.293	0.000	0.095
70.00	-20.24	-4.03	0.00	-202.83	0.00	202.83	2815.80	733.04	2561.27	2440.93	2.20	-0.323	0.000	0.090
75.00	-19.35	-3.93	0.00	-182.70	0.00	182.70	2760.31	710.41	2405.58	2318.41	2.55	-0.352	0.000	0.086
80.00	-18.50	-3.84	0.00	-163.04	0.00	163.04	2702.81	687.79	2254.77	2197.26	2.94	-0.381	0.000	0.081
84.75	-17.70	-3.75	0.00	-144.79	0.00	144.79	2646.34	666.29	2116.02	2083.58	3.33	-0.408	0.000	0.076
85.00	-17.63	-3.75	0.00	-143.85	0.00	143.85	2643.31	665.16	2108.84	2077.64	3.35	-0.409	0.000	0.076
89.75	-16.37	-3.65	0.00	-126.05	0.00	126.05	1922.43	522.76	1628.21	1486.68	3.77	-0.435	0.000	0.093
90.00	-16.33	-3.65	0.00	-125.13	0.00	125.13	1920.55	521.86	1622.58	1482.63	3.80	-0.437	0.000	0.093
95.00	-15.65	-3.57	0.00	-106.86	0.00	106.86	1881.78	503.75	1511.96	1401.97	4.27	-0.468	0.000	0.085
100.00	-14.99	-3.48	0.00	-89.04	0.00	89.04	1841.02	485.65	1405.24	1321.97	4.78	-0.497	0.000	0.076
105.00	-14.35	-3.39	0.00	-71.65	0.00	71.65	1798.25	467.55	1302.43	1242.79	5.31	-0.524	0.000	0.066
110.00	-13.72	-3.30	0.00	-54.71	0.00	54.71	1753.48	449.44	1203.53	1164.58	5.88	-0.548	0.000	0.055
115.00	-13.12	-3.22	0.00	-38.19	0.00	38.19	1706.70	431.34	1108.53	1087.50	6.46	-0.568	0.000	0.043
117.00	-7.80	-1.92	0.00	-31.76	0.00	31.76	1687.43	424.10	1071.62	1057.03	6.70	-0.574	0.000	0.035
120.00	-7.47	-1.87	0.00	-26.01	0.00	26.01	1657.93	413.24	1017.43	1011.73	7.06	-0.583	0.000	0.030
125.00	-6.93	-1.78	0.00	-16.67	0.00	16.67	1607.15	395.13	930.24	937.42	7.68	-0.595	0.000	0.022
126.00	-6.83	-1.77	0.00	-14.89	0.00	14.89	1596.75	391.51	913.27	922.75	7.81	-0.597	0.000	0.020
127.00	-4.09	-1.06	0.00	-13.12	0.00	13.12	1586.28	387.89	896.46	908.14	7.93	-0.598	0.000	0.017
129.75	-3.69	-1.01	0.00	-10.21	0.00	10.21	1068.62	288.02	659.01	607.00	8.28	-0.603	0.000	0.020
130.00	-3.68	-1.01	0.00	-9.95	0.00	9.95	1067.16	287.34	655.91	604.73	8.31	-0.603	0.000	0.020
135.00	-3.33	-0.93	0.00	-4.91	0.00	4.91	1036.93	273.77	595.39	559.65	8.94	-0.610	0.000	0.012
139.00	-0.54	-0.15	0.00	-1.19	0.00	1.19	1011.29	262.90	549.08	524.00	9.46	-0.612	0.000	0.003
140.00	-0.49	-0.14	0.00	-1.04	0.00	1.04	1004.68	260.19	537.80	515.16	9.58	-0.613	0.000	0.003
145.00	-0.24	-0.07	0.00	-0.34	0.00	0.34	970.44	246.61	483.13	471.44	10.23	-0.613	0.000	0.001
150.00	0.00	-0.07	0.00	0.00	0.00	0.00	934.20	233.03	431.40	428.65	10.87	-0.614	0.000	0.000

Final Analysis Summary

Structure: CT13613-A-VZW	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 36



Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 115 mph Wind	21.8	0.00	47.27	0.00	0.00	2197.28
0.9D + 1.0W 115 mph Wind	21.8	0.00	35.45	0.00	0.00	2181.77
1.2D + 1.0Di + 1.0Wi 50 mph Wind	6.2	0.00	47.25	0.00	0.00	599.40
1.2D + 1.0Ev + 1.0Eh	0.8	0.00	48.71	0.00	0.00	101.22
0.9D + 1.0Ev + 1.0Eh	0.8	0.00	36.84	0.00	0.00	100.80
1.0D + 1.0W 60 mph Wind	5.3	0.00	39.41	0.00	0.00	532.71

Max Stresses


Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 115 mph Wind	-28.28	-18.05	0.00	-1171.5	0.00	-1171.5	3008.41	819.03	3197.41	2916.07	51.00	0.412
0.9D + 1.0W 115 mph Wind	-21.14	-17.93	0.00	-1159.6	0.00	-1159.6	3008.41	819.03	3197.41	2916.07	51.00	0.405
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-25.03	-4.96	0.00	-311.19	0.00	-311.19	3008.41	819.03	3197.41	2916.07	51.00	0.115
1.2D + 1.0Ev + 1.0Eh	-29.42	-0.83	0.00	-58.40	0.00	-58.40	3008.41	819.03	3197.41	2916.07	51.00	0.030
0.9D + 1.0Ev + 1.0Eh	-22.25	-0.82	0.00	-58.14	0.00	-58.14	3008.41	819.03	3197.41	2916.07	51.00	0.027
1.0D + 1.0W 60 mph Wind	-23.79	-1.38	0.00	-283.49	0.00	-283.49	3008.41	819.03	3197.41	2916.07	51.00	0.105

Base Plate Summary

Structure: CT13613-A-VZ	Code: TIA-222-H	12/7/2023
Site Name: Johnson	Exposure: B	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Struct Class: II	Page: 37



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 67.00
Moment (kip-ft): 4200.00	Width (in): 66.00	Number Bolts: 20.00
Axial (kip): 36.00	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 39.00	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis (1.2D + 1.0W)	Clip Length (in): 14.00	Yield (ksi): 75.00
Moment (kip-ft): 2197.28	Effective Len (in): 9.14	Ultimate (ksi): 100.00
Axial (kip): 47.27	Moment (kip-in): 283.75	Arrangement: Clustered
Shear (kip): 21.78	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
	Applied Stress (ksi): 24.30	Start Angle (deg): 45.00
	Stress Ratio: 0.36	Compression
		Force (kip): 81.07
		Allowable (kip): 268.39
		Ratio: 0.30
		Tension
		Force (kip): 76.34
		Allowable (kip): 243.75
		Ratio: 0.31

	Monopole Mat Foundation Design			Date
				12/6/2023
	Customer Name:	Verizon	TIA Standard:	TIA-222-H
	Site Name:		Structure Height (Ft.):	150
	Site Number:	CT13613-A-VZW	Engineer Name:	SBA Engineer
Engr. Number:		Engineer Login ID:		

Foundation Info Obtained from:

Structure Type:

Analysis or Design?

Base Reactions (Factored):

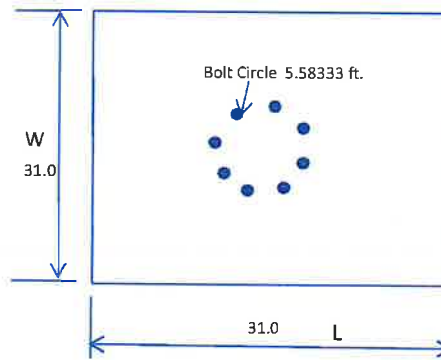
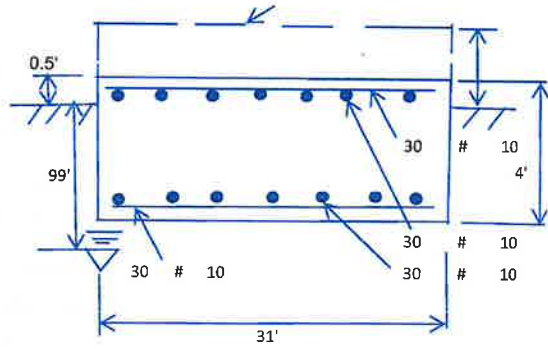
Axial Load (Kips):	47.3	Shear Force (Kips):	21.8
Uplift Force (Kips):	0.0	Moment (Kips-ft):	2197.3

Foundation Geometries:

Anchor Bolt Circle (ft.):	5.58	Depth of Base BG (ft.):	3.50	Mods required -Yes/No ?:	No
Thickness of Pad (ft.):	4.00	Width of Pad (ft.):	31		
Length of Pad (ft.):	31	Final Length of pad (ft)	31.0	Final width of pad (ft):	31.0

Material Properties and Reabr Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Pad Rebar Yield (Ksi):	60	Tie Spacing (in):	12.0	
Pad Steel Rebar Size (#):	10	Unit Weight of Concrete:	150.0	pcf
Concrete Cover (in.):	3			
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	30	Qty. of Rebar in Pad (W):	30	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	30	Qty. of Rebar in Pad (W):	30	



Soil Design Parameters:

Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	20000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:	1.00			

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	0.00	Total Dry Soil Weight (Kips):	0.00
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	0.00	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	3844.00	Total Dry Concrete Weight (Kips):	576.60
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	576.60	Total Vertical Load on Base (Kips):	623.87

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	1307	<	Allowable Factored Soil Bearing (psf):	15000	0.09	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	8776.3	>	Design Factored Momont (kips-ft):	2286	0.26	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	3.84	OK!				

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):
 Strength reduction factor (Axial compression):

0.90 Strength reduction factor (Shear): 0.75
 0.65 Wind Load Factor on Concrete Design: 1.00

Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	1356.2	>	One-Way Factored Shear (L-D. Kips):	253.3	0.19	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1356.2	>	One-Way Factored Shear (W-D., Kips)	253.3	0.19	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	1651.9	>	One-Way Factored Shear (C-C, Kips):	364.7	0.22	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0023	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0023		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	7401.5	>	Moment at Bottom (L-Direct. K-Ft):	1109.5	0.15	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	7401.5	>	Moment at Bottom (W-Direct. K-Ft):	1109.5	0.15	OK!
Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):	10420.2	>	Moment at Bottom (C-C Dir. K-Ft):	1569.0	0.15	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0023	OK!	Upper Steel Reinf. Ratio (W-Direct.):	0.0023		
Upper Steel Pad Moment Capacity (L-Direction. Kips-ft):	7401.5	>	Moment at the top (L-Dir Kips-Ft):	125.8	0.02	OK!
Upper Steel Pad Moment Capacity (W-Direction. Kips-ft):	7401.5	>	Moment at the top (W-Dir Kips-Ft):	125.8	0.02	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	10420.2	>	Moment at the top (C-C Direc. K-Ft):	350.6	0.03	OK!



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Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10213289
Colliers Engineering & Design Project #: 21777227 (Rev 2)

November 13, 2023

Site Information

Site ID: 5000243879-VZW / COLEBROOK CT
Site Name: COLEBROOK CT
Carrier Name: Verizon Wireless
Address: 382 Colebrook River Rd
Colebrook, Connecticut 06021
Litchfield County
Latitude: 41.992083°
Longitude: -73.039806°

Structure Information

Tower Type: Monopole
Mount Type: 13.75-Ft Platform

FUZE ID # 16272050

Analysis Results

Platform: 75.2% Pass w/ Hardware Upgrades*

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

***Contractor PMI Requirements:

Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Gianna Argentina



11/13/2023

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 323611, dated October 25, 2023
Mount Mapping Report	Roaming Networks Inc., Site ID: PSLC:468269, dated March 29, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H Connecticut State Building Code, Effective October 1, 2022	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} :	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e :	0.959
Seismic Parameters:	S_s :	0.165 g
	S_1 :	0.054 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
126.00	127.00	6	Commscope	NHH-85B-R2B	Added
		3	Samsung	MT6413-77A	
		1	RFS	DB-C1-12C-24AB-0Z	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design 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 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 is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Off	59.8 %	Pass
Corner Plate	60.0 %	Pass
Face Horizontal	28.8 %	Pass
Platform Support	6.6 %	Pass
Mount Pipe	39.5 %	Pass
Mount Connection	75.2 %	Pass

Structure Rating – (Controlling Utilization of all Components)	75.2%*
---	---------------

* Results valid after hardware upgrades noted in the PMI Requirements are installed.

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	12.9	12.9	28.9	28.9
0.5	17.5	17.5	40.2	40.2
1	21.6	21.6	51.0	51.0

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 will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor shall install a new 36" long PIPE 2 SCH 40 OVP pipe between alpha and beta sector standoff horizontal.

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

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

MDG #: 5000243879

SMART Project #: 10213289

Fuze Project ID: 16272050

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

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

Base Requirements:

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

Photo Requirements:

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

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

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

Issue:

Contractor shall install a new 36" long PIPE 2 SCH 40 OVP pipe between alpha and beta sector standoff horizontal.

Response:

Special Instruction Confirmation:

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

OR

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

Comments:

--

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

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

Safety Climb in Good Condition Safety Climb Damaged

Certifying Individual:

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

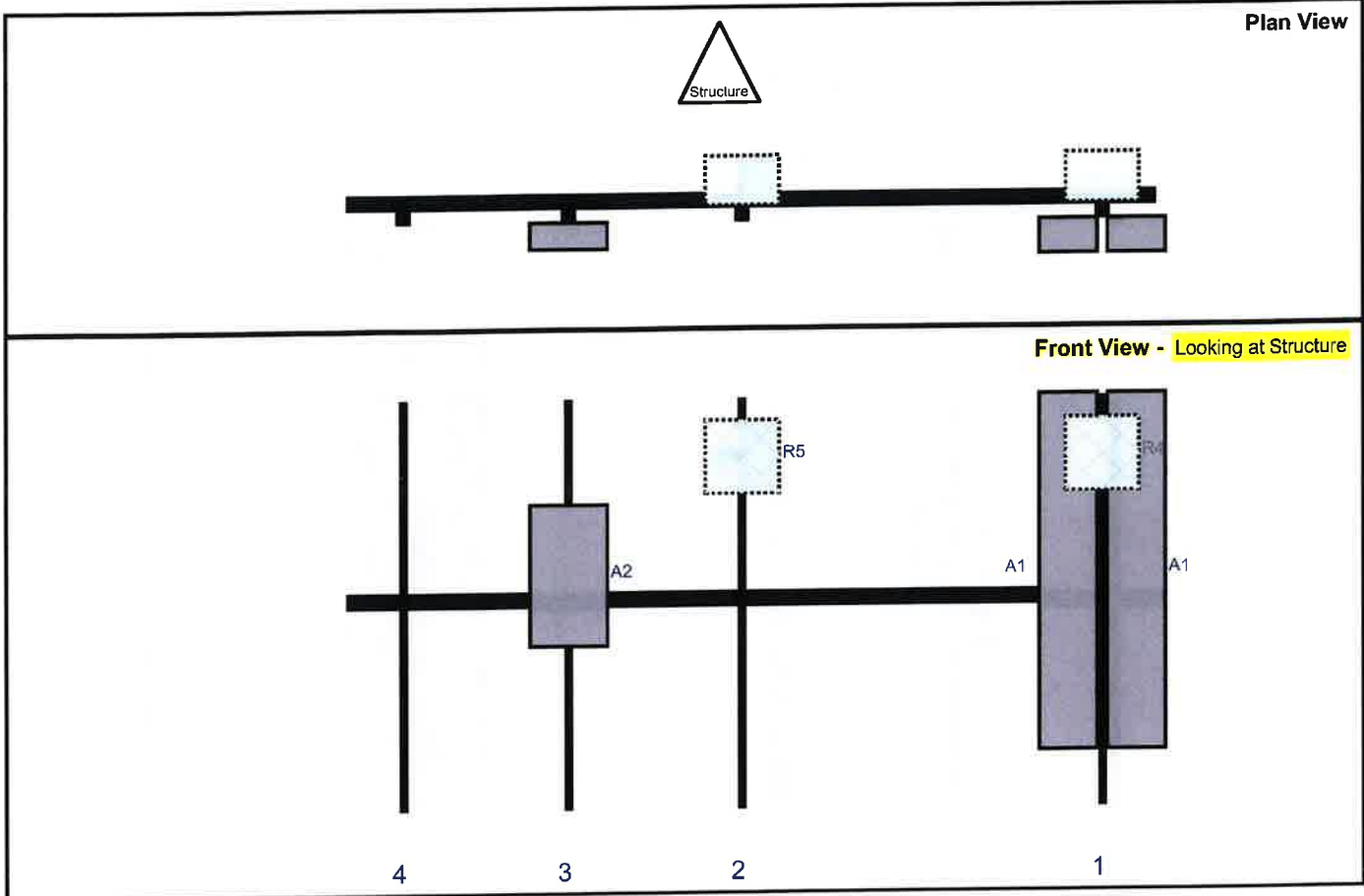
Sector: **A**
 Structure Type: Monopole
 Mount Elev: 126.00

10213289

11/13/2023



Page: 1



Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Fm T.	Ant H Off	Status	Validation
A1	NHH-85B-R2B	72.9	11.9	154	1	a	Front	36	7	Added	
A1	NHH-85B-R2B	72.9	11.9	154	1	b	Front	36	-7	Added	
R4	RF4439d-25A	15	15	154	1	a	Behind	12	0	Added	
R5	RF4461d-13A	15	15	80.5	2	a	Behind	12	0	Added	
A2	MT6413-77A	28.9	15.8	45	3	a	Front	36	0	Added	
M59	DB-C1-12C-24AB-0Z	29.5	16.5			Member				Added	

Structure: 5000243879-VZW - COLEBROOK CT

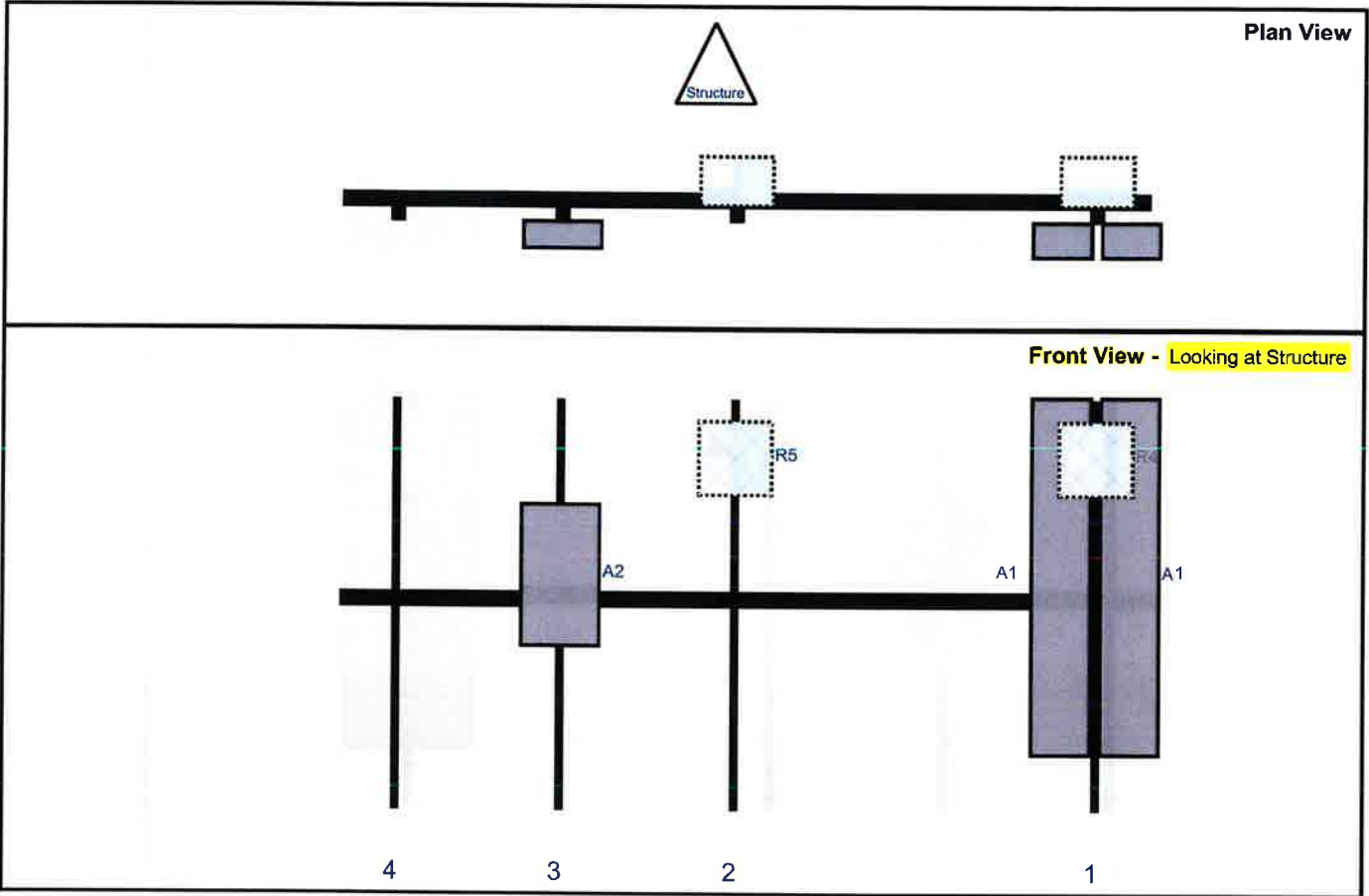
Sector: B
 Structure Type: Monopole
 Mount Elev: 126.00

10213289

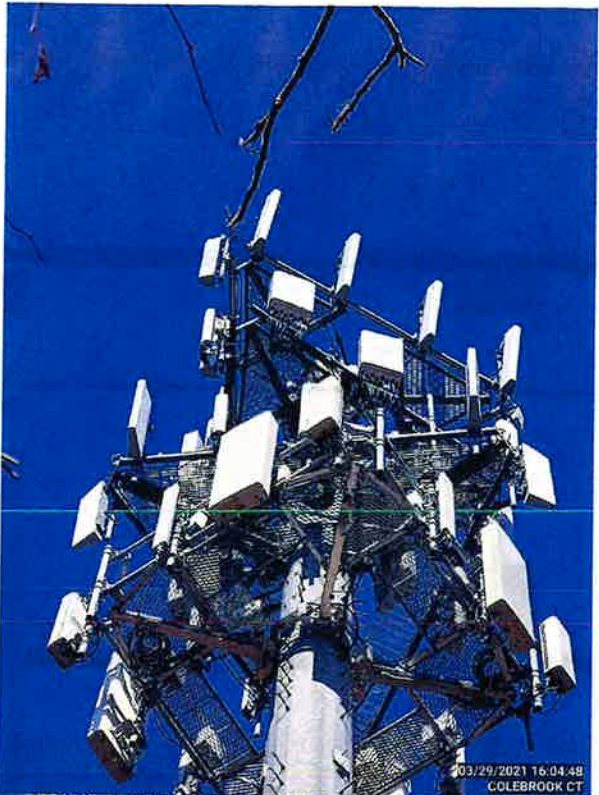
11/13/2023



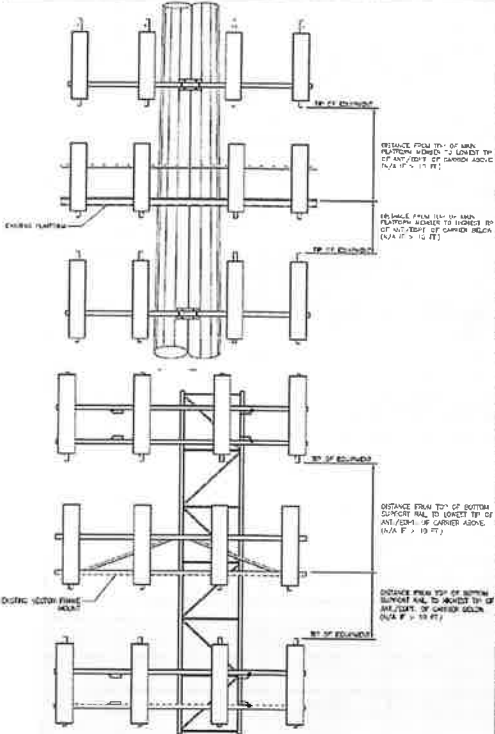
Page: 2



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	NHH-85B-R2B	72.9	11.9	154	1	a	Front	36	7	Added	
A1	NHH-85B-R2B	72.9	11.9	154	1	b	Front	36	-7	Added	
R4	RF4439d-25A	15	15	154	1	a	Behind	12	0	Added	
R5	RF4461d-13A	15	15	80.5	2	a	Behind	12	0	Added	
A2	MT6413-77A	28.9	15.8	45	3	a	Front	36	0	Added	



Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B												
Sector A:	3.00	Deg	Leg A:		Deg	Ant _{1a}														
Sector B:	123.00	Deg	Leg B:		Deg	Ant _{1b}	Unknown	5.50	13.50	69.50		128.128	32.50	14.50	123.00	8,9,10				
Sector C:	243.00	Deg	Leg C:		Deg	Ant _{1c}														
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	(2)Unknown	6.75	1.00	4.75		129.295	18.50			13,14,15				
Climbing Facility Information						Ant _{2b}	BXA70080/6CFEDIN2	8.00	5.90	94.60		128.045	33.50	8.50	123.00	11				
Location:	3.00	Deg	Sector A			Ant _{2c}														
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3a}	BXA171085/8BFEDIN	6.00	3.00	49.00		128.795	25.50	6.50	123.00	4,5				
	Access:		Climbing path was unobstructed.			Ant _{3b}														
	Condition:		Good condition.			Ant _{3c}														
						Ant _{4a}	Unknown	5.50	13.50	69.50		128.253	31.00	16.00	123.00	6				
						Ant _{4b}														
						Ant _{4c}														
						Ant _{5a}														
						Ant _{5b}														
						Ant _{5c}														
						Ant on Standoff														
						Ant on Standoff														
						Ant on Tower														
						Ant on Tower														
						Sector C														
						Ant _{2a}														
						Ant _{1b}	Unknown	5.50	13.50	69.50		128.128	32.50	14.50	243.00	8,9,10				
						Ant _{1c}														
						Ant _{2a}	(2)Unknown	6.75	1.00	4.75		129.295	18.50			13,14,15				
						Ant _{2b}	BXA70080/6CFEDIN2	8.00	5.90	94.60		128.045	33.50	8.50	243.00	11				
						Ant _{2c}														
						Ant _{3a}														
						Ant _{3b}	BXA171085/8BFEDIN	6.00	3.00	49.00		128.795	25.50	6.50	243.00	4,5				
						Ant _{3c}														
						Ant _{4a}	Unknown	5.50	13.50	69.50		128.253	31.00	16.00	243.00	6				
						Ant _{4b}														
						Ant _{4c}														
						Ant _{5a}														
						Ant _{5b}														
						Ant _{5c}														
						Ant on Standoff														
						Ant on Standoff														
						Ant on Tower														
						Ant on Tower														
						Sector D														
						Ant _{1a}														
						Ant _{1b}														
						Ant _{1c}														
						Ant _{2a}														
						Ant _{2b}														
						Ant _{2c}														
						Ant _{3a}														
						Ant _{3b}														
						Ant _{3c}														
						Ant _{4a}														
						Ant _{4b}														
						Ant _{4c}														
						Ant _{5a}														
						Ant _{5b}														
						Ant _{5c}														
						Ant on Standoff														
						Ant on Standoff														
						Ant on Tower														
						Ant on Tower														



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

1	
2	
3	
4	
5	
6	
7	
8	

Mapping Notes

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

Standard Conditions

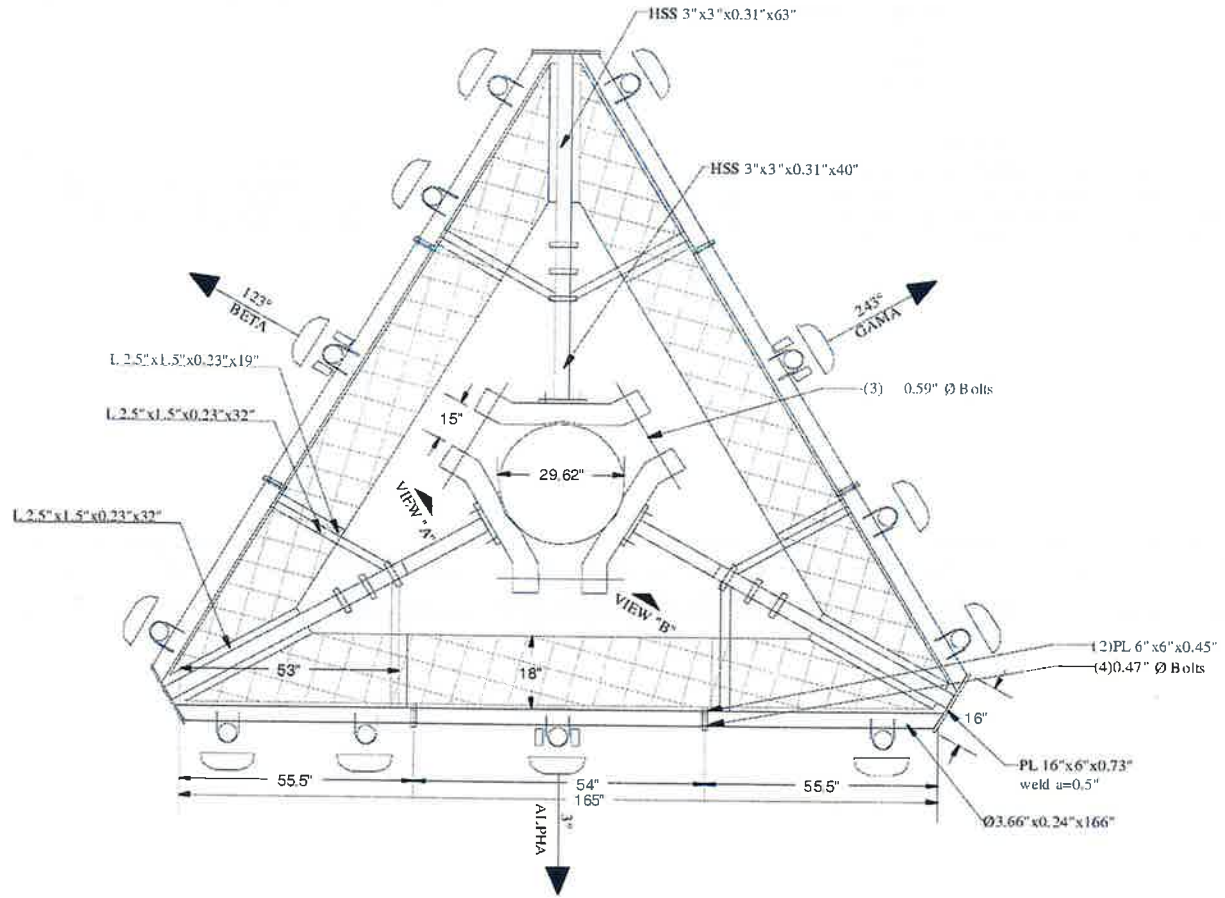
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



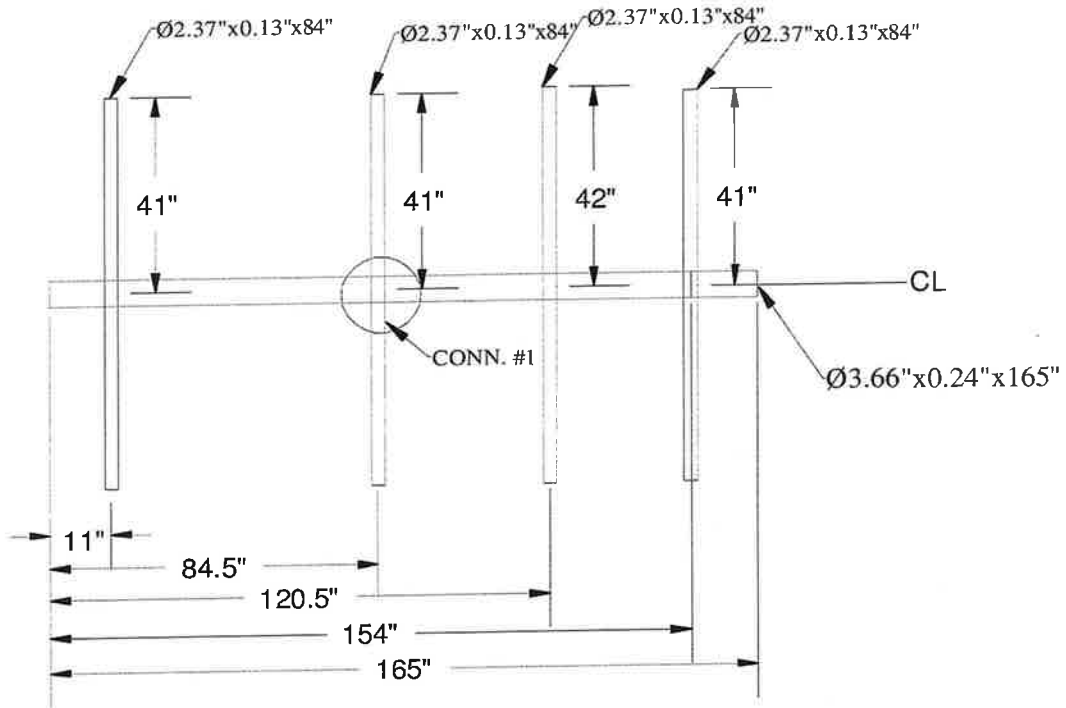
Antenna Mount Mapping Form (PATENT PENDING)				FCC #
Tower Owner:	SBA	Mapping Date:	03/29/2021	N/A
Site Name:	VZW: COLEBROOK CT	Tower Type:	Monopole	
Site Number or ID:	PSLC: 468269	Tower Height (FL):	N/A	
Mapping Contractor:	Roaming Networks Inc.	Mount Elevation (FL):	127.42	

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

Please Insert Sketches of the Antenna Mount

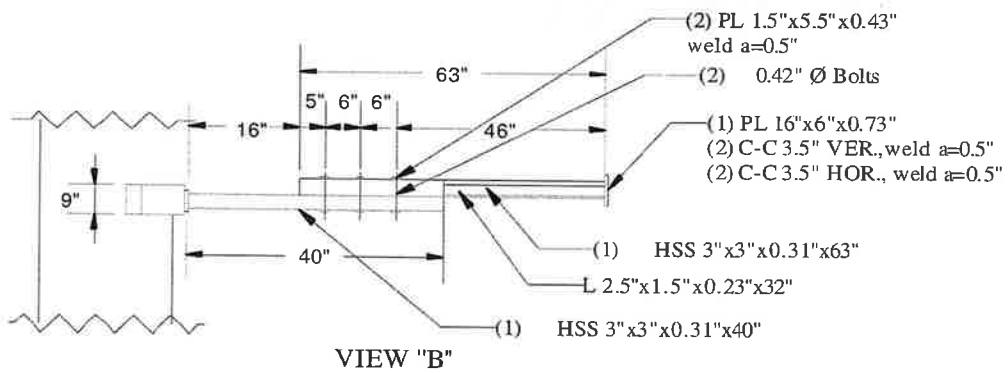
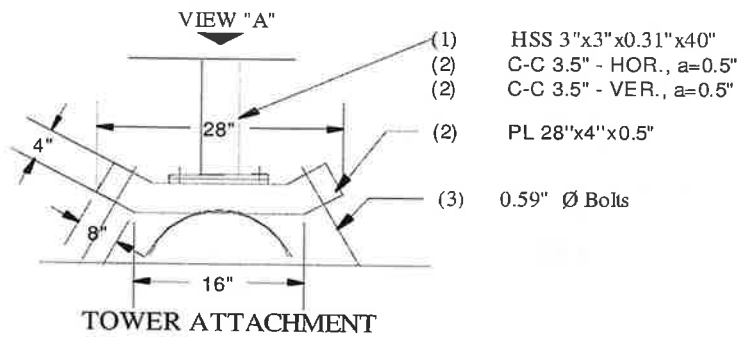
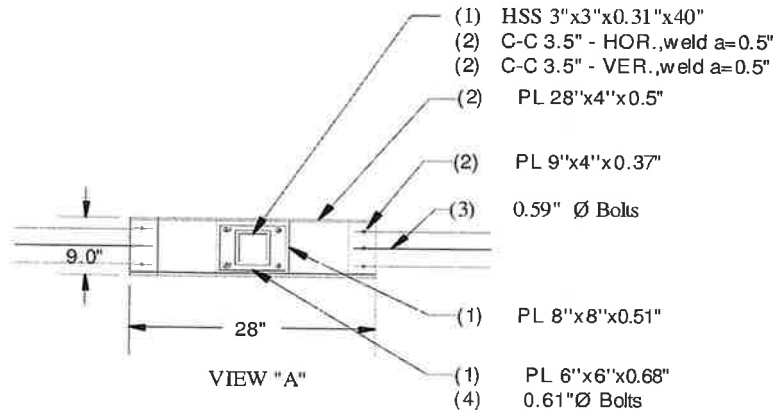


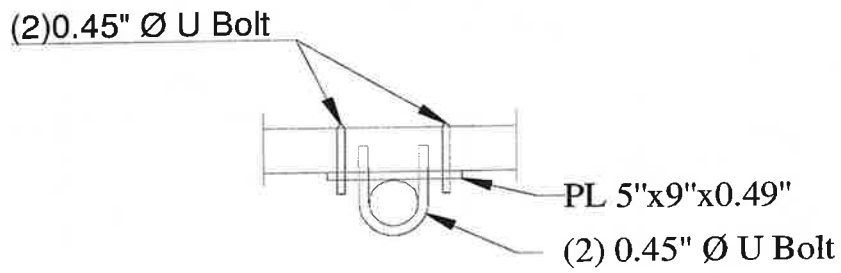
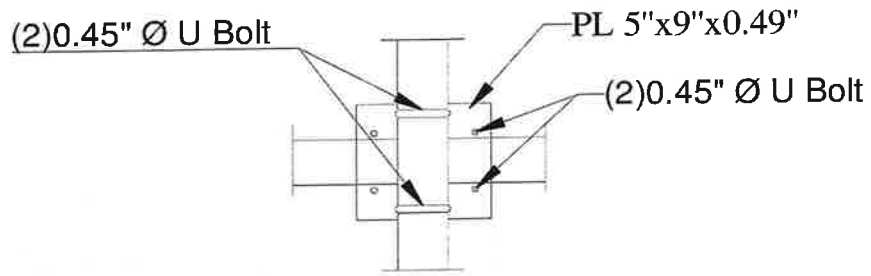
OVERALL MOUNT SCHEMATIC



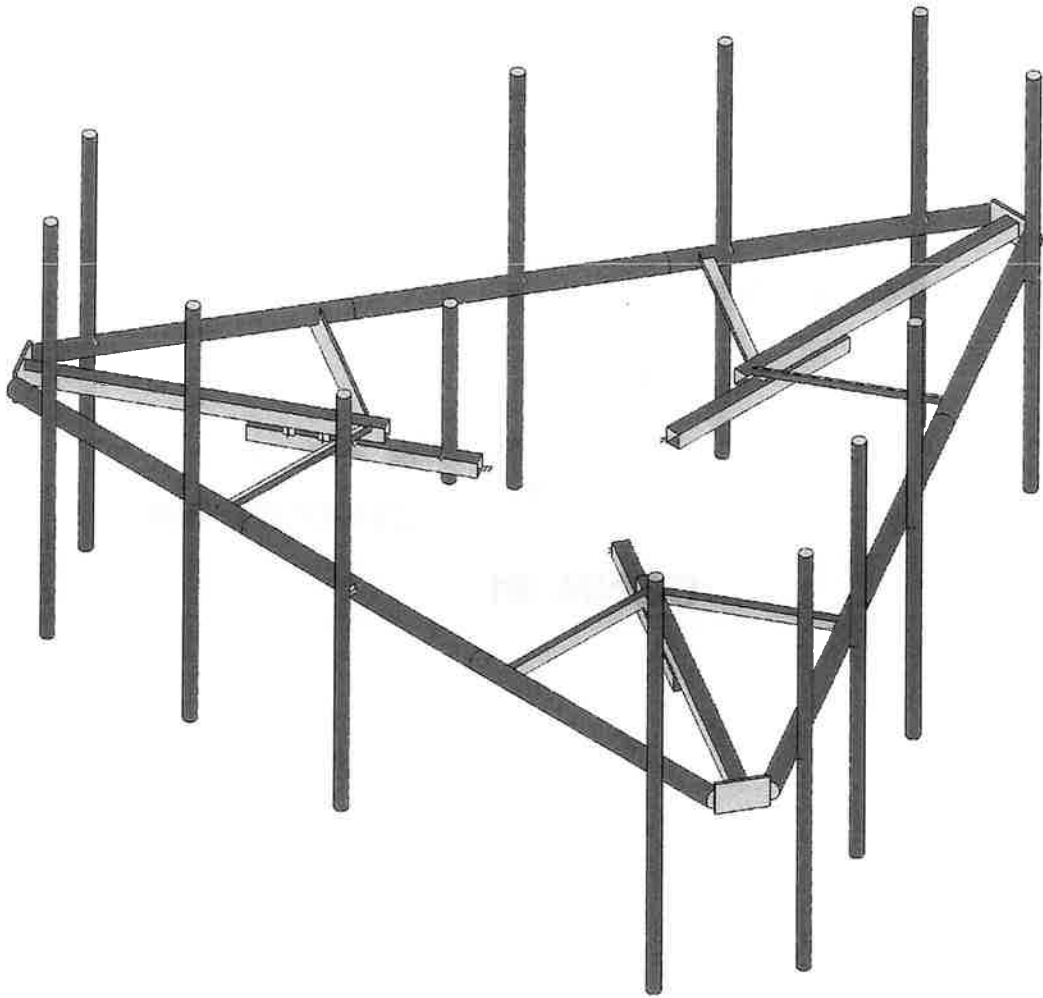
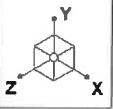
SECTOR A, B, C

Please Insert Sketches of the Antenna Mount, cont'd





CONN. #1



Envelope Only Solution

SK - 1
Nov 8, 2023 at 1:53 PM
5000243879-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					75		
2	Antenna Di	None					75		
3	Antenna Wo (0 Deg)	None					75		
4	Antenna Wo (30 Deg)	None					75		
5	Antenna Wo (60 Deg)	None					75		
6	Antenna Wo (90 Deg)	None					75		
7	Antenna Wo (120 Deg)	None					75		
8	Antenna Wo (150 Deg)	None					75		
9	Antenna Wo (180 Deg)	None					75		
10	Antenna Wo (210 Deg)	None					75		
11	Antenna Wo (240 Deg)	None					75		
12	Antenna Wo (270 Deg)	None					75		
13	Antenna Wo (300 Deg)	None					75		
14	Antenna Wo (330 Deg)	None					75		
15	Antenna Wi (0 Deg)	None					75		
16	Antenna Wi (30 Deg)	None					75		
17	Antenna Wi (60 Deg)	None					75		
18	Antenna Wi (90 Deg)	None					75		
19	Antenna Wi (120 Deg)	None					75		
20	Antenna Wi (150 Deg)	None					75		
21	Antenna Wi (180 Deg)	None					75		
22	Antenna Wi (210 Deg)	None					75		
23	Antenna Wi (240 Deg)	None					75		
24	Antenna Wi (270 Deg)	None					75		
25	Antenna Wi (300 Deg)	None					75		
26	Antenna Wi (330 Deg)	None					75		
27	Antenna W m (0 Deg)	None					75		
28	Antenna W m (30 Deg)	None					75		
29	Antenna W m (60 Deg)	None					75		
30	Antenna W m (90 Deg)	None					75		
31	Antenna W m (120 De...	None					75		
32	Antenna W m (150 De...	None					75		
33	Antenna W m (180 De...	None					75		
34	Antenna W m (210 De...	None					75		
35	Antenna W m (240 De...	None					75		
36	Antenna W m (270 De...	None					75		
37	Antenna W m (300 De...	None					75		
38	Antenna W m (330 De...	None					75		
39	Structure D	None		-1				37	3
40	Structure Di	None						74	
41	Structure Wo (0 Deg)	None						74	
42	Structure Wo (30 Deg)	None						74	
43	Structure Wo (60 Deg)	None						74	
44	Structure Wo (90 Deg)	None						74	
45	Structure Wo (120 D...	None						74	
46	Structure Wo (150 D...	None						74	
47	Structure Wo (180 D...	None						74	
48	Structure Wo (210 D...	None						74	
49	Structure Wo (240 D...	None						74	
50	Structure Wo (270 D...	None						74	
51	Structure Wo (300 D...	None						74	
52	Structure Wo (330 D...	None						74	
53	Structure Wi (0 Deg)	None						74	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
54	Structure Wi (30 Deg)	None						74	
55	Structure Wi (60 Deg)	None						74	
56	Structure Wi (90 Deg)	None						74	
57	Structure Wi (120 De...	None						74	
58	Structure Wi (150 De...	None						74	
59	Structure Wi (180 De...	None						74	
60	Structure Wi (210 De...	None						74	
61	Structure Wi (240 De...	None						74	
62	Structure Wi (270 De...	None						74	
63	Structure Wi (300 De...	None						74	
64	Structure Wi (330 De...	None						74	
65	Structure Wm (0 Deg)	None						74	
66	Structure Wm (30 D...	None						74	
67	Structure Wm (60 D...	None						74	
68	Structure Wm (90 D...	None						74	
69	Structure Wm (120 ...	None						74	
70	Structure Wm (150 ...	None						74	
71	Structure Wm (180 ...	None						74	
72	Structure Wm (210 ...	None						74	
73	Structure Wm (240 ...	None						74	
74	Structure Wm (270 ...	None						74	
75	Structure Wm (300 ...	None						74	
76	Structure Wm (330 ...	None						74	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					75		
82	Antenna Eh (0 Deg)	None					50		
83	Antenna Eh (90 Deg)	None					50		
84	Structure Ev	ELY		-035					3
85	Structure Eh (0 Deg)	ELZ			-088				3
86	Structure Eh (90 Deg)	ELX	.088						3
87	BLC 39 Transient Are...	None						15	
88	BLC 40 Transient Are...	None						15	
89	BLC 84 Transient Are...	None						45	
90	BLC 85 Transient Are...	None						45	
91	BLC 86 Transient Are...	None						45	

Load Combinations

	Description	SolveP...	SR...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	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					
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	

Load Combinations (Continued)

	Description	Solve	P...	SR	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
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
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	

Load Combinations (Continued)

	Description	Solve P...	SR	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...		
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	0	-0.333333	0	0	
2	N2	0	0	-2.916667	0	
3	N3	0	0	-8.166667	0	
4	N4	0.395115	0	-8.166667	0	
5	N5	-0.395115	0	-8.166667	0	
6	N6	0	-0.333333	-1.583333	0	
7	N7	0	-0.333333	-4.916667	0	
8	N8	0	0	-7.68125	0	
9	N9	0	0	-3.333333	0	
10	N10	0	-0.333333	-3.333333	0	
11	N11	0	0	-3.833333	0	
12	N12	0	-0.333333	-3.833333	0	
13	N13	0	0	-4.333333	0	
14	N14	0	-0.333333	-4.333333	0	
15	N15	-2.525907	0	1.458333	0	
16	N16	-7.072541	0	4.083333	0	
17	N17	-7.270098	0	3.741154	0	
18	N18	-6.875	0	4.425484	0	
19	N19	-1.371207	-0.333333	0.791667	0	
20	N20	-4.257958	-0.333333	2.458333	0	
21	N21	-6.652158	0	3.840625	0	
22	N22	-2.886751	0	1.666667	0	
23	N23	-2.886751	-0.333333	1.666667	0	
24	N24	-3.319764	0	1.916667	0	
25	N25	-3.319764	-0.333333	1.916667	0	
26	N26	-3.752777	0	2.166667	0	
27	N27	-3.752777	-0.333333	2.166667	0	
28	N28	2.525907	0	1.458333	0	
29	N29	7.072541	0	4.083333	0	
30	N30	6.874983	0	4.425513	0	
31	N31	7.270098	0	3.741154	0	
32	N32	1.371207	-0.333333	0.791667	0	
33	N33	4.257958	-0.333333	2.458333	0	
34	N34	6.652158	0	3.840625	0	
35	N35	2.886751	0	1.666667	0	
36	N36	2.886751	-0.333333	1.666667	0	
37	N37	3.319764	0	1.916667	0	
38	N38	3.319764	-0.333333	1.916667	0	
39	N39	3.752777	0	2.166667	0	
40	N40	3.752777	-0.333333	2.166667	0	
41	N41	0	0	4.425513	0	
42	N42	-2.25	0	4.425513	0	
43	N43	2.25	0	4.425513	0	
44	N44	4.957606	0	-0.264199	0	
45	N45	2.707606	0	-4.161313	0	
46	N46	-2.707606	0	-4.161313	0	
47	N47	-4.957606	0	-0.264199	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
48	N48	-2.75	0	4.425513	0	
49	N49	2.75	0	4.425513	0	
50	N50	-2.75	0	1.587713	0	
51	N51	2.75	0	1.587713	0	
52	N52	5.207606	0	0.168814	0	
53	N53	2.457606	0	-4.594326	0	
54	N54	-0.	0	-3.175426	0	
55	N55	-2.457606	0	-4.594326	0	
56	N56	-5.207606	0	0.168814	0	
57	N57	-2.75	0	4.083333	0	
58	N58	-2.75	0	2.583333	0	
59	N59	2.75	0	4.083333	0	
60	N60	2.75	0	2.583333	0	
61	N61	-4.474465	0	2.583333	0	
62	N62	4.91127	0	0.339903	0	
63	N63	3.612232	0	1.089903	0	
64	N64	2.16127	0	-4.423237	0	
65	N65	0.862232	0	-3.673237	0	
66	N66	4.474465	0	2.583333	0	
67	N67	-2.16127	0	-4.423237	0	
68	N68	-0.862232	0	-3.673237	0	
69	N69	-4.91127	0	0.339903	0	
70	N70	-3.612232	0	1.089903	0	
71	N71	-0.	0	-5.166667	0	
72	N72	5.958317	0	4.425513	0	
73	N73	5.958317	0	4.675513	0	
74	N74	5.958317	3.416667	4.675513	0	
75	N75	5.958317	-3.583333	4.675513	0	
76	N76	-0.166683	0	4.425513	0	
77	N77	-0.166683	0	4.675513	0	
78	N78	-0.166683	3.416667	4.675513	0	
79	N79	-0.166683	-3.583333	4.675513	0	
80	N80	-3.125017	0	4.425513	0	
81	N81	-3.125017	0	4.675513	0	
82	N82	-3.125017	3.416667	4.675513	0	
83	N83	-3.125017	-3.583333	4.675513	0	
84	N84	-5.916683	0	4.425513	0	
85	N85	-5.916683	0	4.675513	0	
86	N86	-5.916683	3.416667	4.675513	0	
87	N87	-5.916683	-3.583333	4.675513	0	
88	N88	0.853448	0	-7.37281	0	
89	N89	1.069954	0	-7.49781	0	
90	N90	1.069954	3.416667	-7.49781	0	
91	N91	1.069954	-3.583333	-7.49781	0	
92	N92	3.915948	0	-2.068404	0	
93	N93	4.132454	0	-2.193404	0	
94	N94	4.132454	3.416667	-2.193404	0	
95	N95	4.132454	-3.583333	-2.193404	0	
96	N96	5.395115	0	0.493587	0	
97	N97	5.611621	0	0.368587	0	
98	N98	5.611621	3.416667	0.368587	0	
99	N99	5.611621	-3.583333	0.368587	0	
100	N100	6.790948	0	2.911242	0	
101	N101	7.007454	0	2.786242	0	
102	N102	7.007454	3.416667	2.786242	0	
103	N103	7.007454	-3.583333	2.786242	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
104	N104	-6.811765	0	2.947297	0	
105	N105	-7.028271	0	2.822297	0	
106	N106	-7.028271	3.416667	2.822297	0	
107	N107	-7.028271	-3.583333	2.822297	0	
108	N108	-3.749265	0	-2.357108	0	
109	N109	-3.965771	0	-2.482108	0	
110	N110	-3.965771	3.416667	-2.482108	0	
111	N111	-3.965771	-3.583333	-2.482108	0	
112	N112	-2.270098	0	-4.9191	0	
113	N113	-2.486604	0	-5.0441	0	
114	N114	-2.486604	3.416667	-5.0441	0	
115	N115	-2.486604	-3.583333	-5.0441	0	
116	N116	-0.874265	0	-7.336754	0	
117	N117	-1.090771	0	-7.461754	0	
118	N118	-1.090771	3.416667	-7.461754	0	
119	N119	-1.090771	-3.583333	-7.461754	0	
120	N120	-1.80422	-0.333333	1.041667	0	
121	N121	-1.92922	-0.333333	0.82516	0	
122	N122	-1.92922	-0.833333	0.82516	0	
123	N123	-1.92922	2.166667	0.82516	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Standoff Off	HSS3X3X5	Beam	Tube	A500 Gr. B 46	Typical	2.94	3.45	3.45	5.94
2	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
3	Platform Support	L2.5x1.5x4	Beam	Single An...	A36 Gr.36	Typical	.947	.16	.594	.021
4	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
5	Corner Plate	PL3/4x6	Beam	RECT	A36 Gr.36	Typical	4.5	.211	13.5	.777

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N3			Standoff Off	Beam	Tube	A500 Gr. ...	Typical
2	M4	N5	N4			Corner Plate	Beam	RECT	A36 Gr.36	Typical
3	M8	N6	N7			Standoff Off	Beam	Tube	A500 Gr. ...	Typical
4	M45	N9	N10	N1		RIGID	None	None	RIGID	Typical
5	M46	N11	N12	N1		RIGID	None	None	RIGID	Typical
6	M47	N13	N14	N1		RIGID	None	None	RIGID	Typical
7	M11	N15	N16			Standoff Off	Beam	Tube	A500 Gr. ...	Typical
8	M12	N18	N17			Corner Plate	Beam	RECT	A36 Gr.36	Typical
9	M13	N19	N20			Standoff Off	Beam	Tube	A500 Gr. ...	Typical
10	M16	N22	N23	N1		RIGID	None	None	RIGID	Typical
11	M17A	N24	N25	N1		RIGID	None	None	RIGID	Typical
12	M18	N26	N27	N1		RIGID	None	None	RIGID	Typical

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
6	M47	BenPIN					Yes	** NA **			None
7	M11						Yes				None
8	M12						Yes				None
9	M13						Yes				None
10	M16	BenPIN					Yes	** NA **			None
11	M17A	BenPIN					Yes	** NA **			None
12	M18	BenPIN					Yes	** NA **			None
13	M21A						Yes				None
14	M22						Yes				None
15	M23						Yes				None
16	M26	BenPIN					Yes	** NA **			None
17	M27	BenPIN					Yes	** NA **			None
18	M28	BenPIN					Yes	** NA **			None
19	LV1						Yes				None
20	LV2						Yes				None
21	M33						Yes				None
22	M22A						Yes				None
23	M23A						Yes				None
24	M24						Yes				None
25	M25						Yes				None
26	M26A						Yes				None
27	M27A						Yes				None
28	M28A					Euler Buc..	Yes				None
29	M29					Euler Buc..	Yes				None
30	M30					Euler Buc..	Yes				None
31	M31A					Euler Buc..	Yes				None
32	M32A					Euler Buc..	Yes				None
33	M33A					Euler Buc..	Yes	Default			None
34	LM1						Yes	** NA **			None
35	MP1A						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	MP2A						Yes	** NA **			None
38	LM2						Yes	** NA **			None
39	MP3A						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP4A						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	MP1C						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	MP2C						Yes	** NA **			None
46	M46A						Yes	** NA **			None
47	MP3C						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	MP4C						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	MP1B						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	MP2B						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	MP3B						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	MP4B						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	Y	-21.85	1
2	MP1A	My	-.011	1
3	MP1A	Mz	.013	1
4	MP1A	Y	-21.85	5
5	MP1A	My	-.011	5
6	MP1A	Mz	.013	5
7	MP1B	Y	-21.85	1
8	MP1B	My	-.006	1
9	MP1B	Mz	-.016	1
10	MP1B	Y	-21.85	5
11	MP1B	My	-.006	5
12	MP1B	Mz	-.016	5
13	MP1C	Y	-21.85	1
14	MP1C	My	.017	1
15	MP1C	Mz	.003	1
16	MP1C	Y	-21.85	5
17	MP1C	My	.017	5
18	MP1C	Mz	.003	5
19	MP1A	Y	-21.85	1
20	MP1A	My	-.011	1
21	MP1A	Mz	-.013	1
22	MP1A	Y	-21.85	5
23	MP1A	My	-.011	5
24	MP1A	Mz	-.013	5
25	MP1B	Y	-21.85	1
26	MP1B	My	.017	1
27	MP1B	Mz	-.003	1
28	MP1B	Y	-21.85	5
29	MP1B	My	.017	5
30	MP1B	Mz	-.003	5
31	MP1C	Y	-21.85	1
32	MP1C	My	-.006	1
33	MP1C	Mz	.016	1
34	MP1C	Y	-21.85	5
35	MP1C	My	-.006	5
36	MP1C	Mz	.016	5
37	MP3A	Y	-28.65	2
38	MP3A	My	-.014	2
39	MP3A	Mz	0	2
40	MP3A	Y	-28.65	4
41	MP3A	My	-.014	4
42	MP3A	Mz	0	4
43	MP3B	Y	-28.65	2
44	MP3B	My	.007	2
45	MP3B	Mz	-.012	2
46	MP3B	Y	-28.65	4
47	MP3B	My	.007	4
48	MP3B	Mz	-.012	4
49	MP3C	Y	-28.65	2
50	MP3C	My	.007	2
51	MP3C	Mz	.012	2
52	MP3C	Y	-28.65	4
53	MP3C	My	.007	4
54	MP3C	Mz	.012	4
55	M59	Y	-32	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
56	M59	My	0	1.5
57	M59	Mz	0	1.5
58	MP1A	Y	-74.7	1
59	MP1A	My	.037	1
60	MP1A	Mz	.037	1
61	MP1B	Y	-74.7	1
62	MP1B	My	-.051	1
63	MP1B	Mz	.014	1
64	MP1C	Y	-74.7	1
65	MP1C	My	.014	1
66	MP1C	Mz	-.051	1
67	MP1A	Y	-79.1	1
68	MP1A	My	.04	1
69	MP1A	Mz	-.04	1
70	MP1B	Y	-79.1	1
71	MP1B	My	.014	1
72	MP1B	Mz	.054	1
73	MP1C	Y	-79.1	1
74	MP1C	My	-.054	1
75	MP1C	Mz	-.014	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	Y	-60.671	1
2	MP1A	My	-.03	1
3	MP1A	Mz	.035	1
4	MP1A	Y	-60.671	5
5	MP1A	My	-.03	5
6	MP1A	Mz	.035	5
7	MP1B	Y	-60.671	1
8	MP1B	My	-.015	1
9	MP1B	Mz	-.044	1
10	MP1B	Y	-60.671	5
11	MP1B	My	-.015	5
12	MP1B	Mz	-.044	5
13	MP1C	Y	-60.671	1
14	MP1C	My	.046	1
15	MP1C	Mz	.009	1
16	MP1C	Y	-60.671	5
17	MP1C	My	.046	5
18	MP1C	Mz	.009	5
19	MP1A	Y	-60.671	1
20	MP1A	My	-.03	1
21	MP1A	Mz	-.035	1
22	MP1A	Y	-60.671	5
23	MP1A	My	-.03	5
24	MP1A	Mz	-.035	5
25	MP1B	Y	-60.671	1
26	MP1B	My	.046	1
27	MP1B	Mz	-.009	1
28	MP1B	Y	-60.671	5
29	MP1B	My	.046	5
30	MP1B	Mz	-.009	5
31	MP1C	Y	-60.671	1
32	MP1C	My	-.015	1
33	MP1C	Mz	.044	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
34	MP1C	Y	-60.671	5
35	MP1C	My	-.015	5
36	MP1C	Mz	.044	5
37	MP3A	Y	-29.471	2
38	MP3A	My	-.015	2
39	MP3A	Mz	0	2
40	MP3A	Y	-29.471	4
41	MP3A	My	-.015	4
42	MP3A	Mz	0	4
43	MP3B	Y	-29.471	2
44	MP3B	My	.007	2
45	MP3B	Mz	-.013	2
46	MP3B	Y	-29.471	4
47	MP3B	My	.007	4
48	MP3B	Mz	-.013	4
49	MP3C	Y	-29.471	2
50	MP3C	My	.007	2
51	MP3C	Mz	.013	2
52	MP3C	Y	-29.471	4
53	MP3C	My	.007	4
54	MP3C	Mz	.013	4
55	M59	Y	-87.026	1.5
56	M59	My	0	1.5
57	M59	Mz	0	1.5
58	MP1A	Y	-44.433	1
59	MP1A	My	.022	1
60	MP1A	Mz	.022	1
61	MP1B	Y	-44.433	1
62	MP1B	My	-.03	1
63	MP1B	Mz	.008	1
64	MP1C	Y	-44.433	1
65	MP1C	My	.008	1
66	MP1C	Mz	-.03	1
67	MP1A	Y	-44.904	1
68	MP1A	My	.022	1
69	MP1A	Mz	-.022	1
70	MP1B	Y	-44.904	1
71	MP1B	My	.008	1
72	MP1B	Mz	.031	1
73	MP1C	Y	-44.904	1
74	MP1C	My	-.031	1
75	MP1C	Mz	-.008	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	-80.739	1
3	MP1A	Mx	-.047	1
4	MP1A	X	0	5
5	MP1A	Z	-80.739	5
6	MP1A	Mx	-.047	5
7	MP1B	X	0	1
8	MP1B	Z	-46.231	1
9	MP1B	Mx	.034	1
10	MP1B	X	0	5
11	MP1B	Z	-46.231	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
12	MP1B	Mx	.034	5
13	MP1C	X	0	1
14	MP1C	Z	-46.231	1
15	MP1C	Mx	-.007	1
16	MP1C	X	0	5
17	MP1C	Z	-46.231	5
18	MP1C	Mx	-.007	5
19	MP1A	X	0	1
20	MP1A	Z	-80.739	1
21	MP1A	Mx	.047	1
22	MP1A	X	0	5
23	MP1A	Z	-80.739	5
24	MP1A	Mx	.047	5
25	MP1B	X	0	1
26	MP1B	Z	-46.231	1
27	MP1B	Mx	.007	1
28	MP1B	X	0	5
29	MP1B	Z	-46.231	5
30	MP1B	Mx	.007	5
31	MP1C	X	0	1
32	MP1C	Z	-46.231	1
33	MP1C	Mx	-.034	1
34	MP1C	X	0	5
35	MP1C	Z	-46.231	5
36	MP1C	Mx	-.034	5
37	MP3A	X	0	2
38	MP3A	Z	-55.536	2
39	MP3A	Mx	0	2
40	MP3A	X	0	4
41	MP3A	Z	-55.536	4
42	MP3A	Mx	0	4
43	MP3B	X	0	2
44	MP3B	Z	-29.926	2
45	MP3B	Mx	.013	2
46	MP3B	X	0	4
47	MP3B	Z	-29.926	4
48	MP3B	Mx	.013	4
49	MP3C	X	0	2
50	MP3C	Z	-29.926	2
51	MP3C	Mx	-.013	2
52	MP3C	X	0	4
53	MP3C	Z	-29.926	4
54	MP3C	Mx	-.013	4
55	M59	X	0	1.5
56	M59	Z	-118.984	1.5
57	M59	Mx	0	1.5
58	MP1A	X	0	1
59	MP1A	Z	-45.425	1
60	MP1A	Mx	-.023	1
61	MP1B	X	0	1
62	MP1B	Z	-34.215	1
63	MP1B	Mx	-.006	1
64	MP1C	X	0	1
65	MP1C	Z	-34.215	1
66	MP1C	Mx	.023	1
67	MP1A	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
68	MP1A	Z	-54.803	1
69	MP1A	Mx	.027	1
70	MP1B	X	0	1
71	MP1B	Z	-41.725	1
72	MP1B	Mx	-.028	1
73	MP1C	X	0	1
74	MP1C	Z	-41.725	1
75	MP1C	Mx	.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	34.618	1
2	MP1A	Z	-59.961	1
3	MP1A	Mx	-.052	1
4	MP1A	X	34.618	5
5	MP1A	Z	-59.961	5
6	MP1A	Mx	-.052	5
7	MP1B	X	17.364	1
8	MP1B	Z	-30.075	1
9	MP1B	Mx	.017	1
10	MP1B	X	17.364	5
11	MP1B	Z	-30.075	5
12	MP1B	Mx	.017	5
13	MP1C	X	34.618	1
14	MP1C	Z	-59.961	1
15	MP1C	Mx	.018	1
16	MP1C	X	34.618	5
17	MP1C	Z	-59.961	5
18	MP1C	Mx	.018	5
19	MP1A	X	34.618	1
20	MP1A	Z	-59.961	1
21	MP1A	Mx	.018	1
22	MP1A	X	34.618	5
23	MP1A	Z	-59.961	5
24	MP1A	Mx	.018	5
25	MP1B	X	17.364	1
26	MP1B	Z	-30.075	1
27	MP1B	Mx	.017	1
28	MP1B	X	17.364	5
29	MP1B	Z	-30.075	5
30	MP1B	Mx	.017	5
31	MP1C	X	34.618	1
32	MP1C	Z	-59.961	1
33	MP1C	Mx	-.052	1
34	MP1C	X	34.618	5
35	MP1C	Z	-59.961	5
36	MP1C	Mx	-.052	5
37	MP3A	X	23.5	2
38	MP3A	Z	-40.702	2
39	MP3A	Mx	-.012	2
40	MP3A	X	23.5	4
41	MP3A	Z	-40.702	4
42	MP3A	Mx	-.012	4
43	MP3B	X	10.695	2
44	MP3B	Z	-18.524	2
45	MP3B	Mx	.011	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP3B	X	10.695	4
47	MP3B	Z	-18.524	4
48	MP3B	Mx	.011	4
49	MP3C	X	23.5	2
50	MP3C	Z	-40.702	2
51	MP3C	Mx	-.012	2
52	MP3C	X	23.5	4
53	MP3C	Z	-40.702	4
54	MP3C	Mx	-.012	4
55	M59	X	55.966	1.5
56	M59	Z	-96.936	1.5
57	M59	Mx	0	1.5
58	MP1A	X	20.844	1
59	MP1A	Z	-36.103	1
60	MP1A	Mx	-.008	1
61	MP1B	X	15.239	1
62	MP1B	Z	-26.395	1
63	MP1B	Mx	-.015	1
64	MP1C	X	20.844	1
65	MP1C	Z	-36.103	1
66	MP1C	Mx	.028	1
67	MP1A	X	25.222	1
68	MP1A	Z	-43.686	1
69	MP1A	Mx	.034	1
70	MP1B	X	18.683	1
71	MP1B	Z	-32.36	1
72	MP1B	Mx	-.019	1
73	MP1C	X	25.222	1
74	MP1C	Z	-43.686	1
75	MP1C	Mx	-.009	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	40.037	1
2	MP1A	Z	-23.115	1
3	MP1A	Mx	-.034	1
4	MP1A	X	40.037	5
5	MP1A	Z	-23.115	5
6	MP1A	Mx	-.034	5
7	MP1B	X	40.037	1
8	MP1B	Z	-23.115	1
9	MP1B	Mx	.007	1
10	MP1B	X	40.037	5
11	MP1B	Z	-23.115	5
12	MP1B	Mx	.007	5
13	MP1C	X	69.922	1
14	MP1C	Z	-40.37	1
15	MP1C	Mx	.047	1
16	MP1C	X	69.922	5
17	MP1C	Z	-40.37	5
18	MP1C	Mx	.047	5
19	MP1A	X	40.037	1
20	MP1A	Z	-23.115	1
21	MP1A	Mx	-.007	1
22	MP1A	X	40.037	5
23	MP1A	Z	-23.115	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP1A	Mx	-.007	5
25	MP1B	X	40.037	1
26	MP1B	Z	-23.115	1
27	MP1B	Mx	.034	1
28	MP1B	X	40.037	5
29	MP1B	Z	-23.115	5
30	MP1B	Mx	.034	5
31	MP1C	X	69.922	1
32	MP1C	Z	-40.37	1
33	MP1C	Mx	-.047	1
34	MP1C	X	69.922	5
35	MP1C	Z	-40.37	5
36	MP1C	Mx	-.047	5
37	MP3A	X	25.917	2
38	MP3A	Z	-14.963	2
39	MP3A	Mx	-.013	2
40	MP3A	X	25.917	4
41	MP3A	Z	-14.963	4
42	MP3A	Mx	-.013	4
43	MP3B	X	25.917	2
44	MP3B	Z	-14.963	2
45	MP3B	Mx	.013	2
46	MP3B	X	25.917	4
47	MP3B	Z	-14.963	4
48	MP3B	Mx	.013	4
49	MP3C	X	48.095	2
50	MP3C	Z	-27.768	2
51	MP3C	Mx	0	2
52	MP3C	X	48.095	4
53	MP3C	Z	-27.768	4
54	MP3C	Mx	0	4
55	M59	X	84.722	1.5
56	M59	Z	-48.914	1.5
57	M59	Mx	0	1.5
58	MP1A	X	29.631	1
59	MP1A	Z	-17.108	1
60	MP1A	Mx	.006	1
61	MP1B	X	29.631	1
62	MP1B	Z	-17.108	1
63	MP1B	Mx	-.023	1
64	MP1C	X	39.339	1
65	MP1C	Z	-22.712	1
66	MP1C	Mx	.023	1
67	MP1A	X	36.135	1
68	MP1A	Z	-20.863	1
69	MP1A	Mx	.028	1
70	MP1B	X	36.135	1
71	MP1B	Z	-20.863	1
72	MP1B	Mx	-.008	1
73	MP1C	X	47.461	1
74	MP1C	Z	-27.402	1
75	MP1C	Mx	-.027	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	34.728	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
2	MP1A	Z	0	1
3	MP1A	Mx	-.017	1
4	MP1A	X	34.728	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.017	5
7	MP1B	X	69.236	1
8	MP1B	Z	0	1
9	MP1B	Mx	-.018	1
10	MP1B	X	69.236	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.018	5
13	MP1C	X	69.236	1
14	MP1C	Z	0	1
15	MP1C	Mx	.052	1
16	MP1C	X	69.236	5
17	MP1C	Z	0	5
18	MP1C	Mx	.052	5
19	MP1A	X	34.728	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.017	1
22	MP1A	X	34.728	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.017	5
25	MP1B	X	69.236	1
26	MP1B	Z	0	1
27	MP1B	Mx	.052	1
28	MP1B	X	69.236	5
29	MP1B	Z	0	5
30	MP1B	Mx	.052	5
31	MP1C	X	69.236	1
32	MP1C	Z	0	1
33	MP1C	Mx	-.018	1
34	MP1C	X	69.236	5
35	MP1C	Z	0	5
36	MP1C	Mx	-.018	5
37	MP3A	X	21.39	2
38	MP3A	Z	0	2
39	MP3A	Mx	-.011	2
40	MP3A	X	21.39	4
41	MP3A	Z	0	4
42	MP3A	Mx	-.011	4
43	MP3B	X	46.999	2
44	MP3B	Z	0	2
45	MP3B	Mx	.012	2
46	MP3B	X	46.999	4
47	MP3B	Z	0	4
48	MP3B	Mx	.012	4
49	MP3C	X	46.999	2
50	MP3C	Z	0	2
51	MP3C	Mx	.012	2
52	MP3C	X	46.999	4
53	MP3C	Z	0	4
54	MP3C	Mx	.012	4
55	M59	X	90.777	1.5
56	M59	Z	0	1.5
57	M59	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	30.479	1
59	MP1A	Z	0	1
60	MP1A	Mx	.015	1
61	MP1B	X	41.688	1
62	MP1B	Z	0	1
63	MP1B	Mx	-.028	1
64	MP1C	X	41.688	1
65	MP1C	Z	0	1
66	MP1C	Mx	.008	1
67	MP1A	X	37.366	1
68	MP1A	Z	0	1
69	MP1A	Mx	.019	1
70	MP1B	X	50.444	1
71	MP1B	Z	0	1
72	MP1B	Mx	.009	1
73	MP1C	X	50.444	1
74	MP1C	Z	0	1
75	MP1C	Mx	-.034	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	40.037	1
2	MP1A	Z	23.115	1
3	MP1A	Mx	-.007	1
4	MP1A	X	40.037	5
5	MP1A	Z	23.115	5
6	MP1A	Mx	-.007	5
7	MP1B	X	69.922	1
8	MP1B	Z	40.37	1
9	MP1B	Mx	-.047	1
10	MP1B	X	69.922	5
11	MP1B	Z	40.37	5
12	MP1B	Mx	-.047	5
13	MP1C	X	40.037	1
14	MP1C	Z	23.115	1
15	MP1C	Mx	.034	1
16	MP1C	X	40.037	5
17	MP1C	Z	23.115	5
18	MP1C	Mx	.034	5
19	MP1A	X	40.037	1
20	MP1A	Z	23.115	1
21	MP1A	Mx	-.034	1
22	MP1A	X	40.037	5
23	MP1A	Z	23.115	5
24	MP1A	Mx	-.034	5
25	MP1B	X	69.922	1
26	MP1B	Z	40.37	1
27	MP1B	Mx	.047	1
28	MP1B	X	69.922	5
29	MP1B	Z	40.37	5
30	MP1B	Mx	.047	5
31	MP1C	X	40.037	1
32	MP1C	Z	23.115	1
33	MP1C	Mx	.007	1
34	MP1C	X	40.037	5
35	MP1C	Z	23.115	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
36	MP1C	Mx	.007	5
37	MP3A	X	25.917	2
38	MP3A	Z	14.963	2
39	MP3A	Mx	-.013	2
40	MP3A	X	25.917	4
41	MP3A	Z	14.963	4
42	MP3A	Mx	-.013	4
43	MP3B	X	48.095	2
44	MP3B	Z	27.768	2
45	MP3B	Mx	0	2
46	MP3B	X	48.095	4
47	MP3B	Z	27.768	4
48	MP3B	Mx	0	4
49	MP3C	X	25.917	2
50	MP3C	Z	14.963	2
51	MP3C	Mx	.013	2
52	MP3C	X	25.917	4
53	MP3C	Z	14.963	4
54	MP3C	Mx	.013	4
55	M59	X	84.722	1.5
56	M59	Z	48.914	1.5
57	M59	Mx	0	1.5
58	MP1A	X	29.631	1
59	MP1A	Z	17.108	1
60	MP1A	Mx	.023	1
61	MP1B	X	39.339	1
62	MP1B	Z	22.712	1
63	MP1B	Mx	-.023	1
64	MP1C	X	29.631	1
65	MP1C	Z	17.108	1
66	MP1C	Mx	-.006	1
67	MP1A	X	36.135	1
68	MP1A	Z	20.863	1
69	MP1A	Mx	.008	1
70	MP1B	X	47.461	1
71	MP1B	Z	27.402	1
72	MP1B	Mx	.027	1
73	MP1C	X	36.135	1
74	MP1C	Z	20.863	1
75	MP1C	Mx	-.028	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	34.618	1
2	MP1A	Z	59.961	1
3	MP1A	Mx	.018	1
4	MP1A	X	34.618	5
5	MP1A	Z	59.961	5
6	MP1A	Mx	.018	5
7	MP1B	X	34.618	1
8	MP1B	Z	59.961	1
9	MP1B	Mx	-.052	1
10	MP1B	X	34.618	5
11	MP1B	Z	59.961	5
12	MP1B	Mx	-.052	5
13	MP1C	X	17.364	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP1C	Z	30.075	1
15	MP1C	Mx	.017	1
16	MP1C	X	17.364	5
17	MP1C	Z	30.075	5
18	MP1C	Mx	.017	5
19	MP1A	X	34.618	1
20	MP1A	Z	59.961	1
21	MP1A	Mx	-.052	1
22	MP1A	X	34.618	5
23	MP1A	Z	59.961	5
24	MP1A	Mx	-.052	5
25	MP1B	X	34.618	1
26	MP1B	Z	59.961	1
27	MP1B	Mx	.018	1
28	MP1B	X	34.618	5
29	MP1B	Z	59.961	5
30	MP1B	Mx	.018	5
31	MP1C	X	17.364	1
32	MP1C	Z	30.075	1
33	MP1C	Mx	.017	1
34	MP1C	X	17.364	5
35	MP1C	Z	30.075	5
36	MP1C	Mx	.017	5
37	MP3A	X	23.5	2
38	MP3A	Z	40.702	2
39	MP3A	Mx	-.012	2
40	MP3A	X	23.5	4
41	MP3A	Z	40.702	4
42	MP3A	Mx	-.012	4
43	MP3B	X	23.5	2
44	MP3B	Z	40.702	2
45	MP3B	Mx	-.012	2
46	MP3B	X	23.5	4
47	MP3B	Z	40.702	4
48	MP3B	Mx	-.012	4
49	MP3C	X	10.695	2
50	MP3C	Z	18.524	2
51	MP3C	Mx	.011	2
52	MP3C	X	10.695	4
53	MP3C	Z	18.524	4
54	MP3C	Mx	.011	4
55	M59	X	55.966	1.5
56	M59	Z	96.936	1.5
57	M59	Mx	0	1.5
58	MP1A	X	20.844	1
59	MP1A	Z	36.103	1
60	MP1A	Mx	.028	1
61	MP1B	X	20.844	1
62	MP1B	Z	36.103	1
63	MP1B	Mx	-.008	1
64	MP1C	X	15.239	1
65	MP1C	Z	26.395	1
66	MP1C	Mx	-.015	1
67	MP1A	X	25.222	1
68	MP1A	Z	43.686	1
69	MP1A	Mx	-.009	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
70	MP1B	X	25.222	1
71	MP1B	Z	43.686	1
72	MP1B	Mx	.034	1
73	MP1C	X	18.683	1
74	MP1C	Z	32.36	1
75	MP1C	Mx	-.019	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	1
2	MP1A	Z	80.739	1
3	MP1A	Mx	.047	1
4	MP1A	X	0	5
5	MP1A	Z	80.739	5
6	MP1A	Mx	.047	5
7	MP1B	X	0	1
8	MP1B	Z	46.231	1
9	MP1B	Mx	-.034	1
10	MP1B	X	0	5
11	MP1B	Z	46.231	5
12	MP1B	Mx	-.034	5
13	MP1C	X	0	1
14	MP1C	Z	46.231	1
15	MP1C	Mx	.007	1
16	MP1C	X	0	5
17	MP1C	Z	46.231	5
18	MP1C	Mx	.007	5
19	MP1A	X	0	1
20	MP1A	Z	80.739	1
21	MP1A	Mx	-.047	1
22	MP1A	X	0	5
23	MP1A	Z	80.739	5
24	MP1A	Mx	-.047	5
25	MP1B	X	0	1
26	MP1B	Z	46.231	1
27	MP1B	Mx	-.007	1
28	MP1B	X	0	5
29	MP1B	Z	46.231	5
30	MP1B	Mx	-.007	5
31	MP1C	X	0	1
32	MP1C	Z	46.231	1
33	MP1C	Mx	.034	1
34	MP1C	X	0	5
35	MP1C	Z	46.231	5
36	MP1C	Mx	.034	5
37	MP3A	X	0	2
38	MP3A	Z	55.536	2
39	MP3A	Mx	0	2
40	MP3A	X	0	4
41	MP3A	Z	55.536	4
42	MP3A	Mx	0	4
43	MP3B	X	0	2
44	MP3B	Z	29.926	2
45	MP3B	Mx	-.013	2
46	MP3B	X	0	4
47	MP3B	Z	29.926	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP3B	Mx	-.013	4
49	MP3C	X	0	2
50	MP3C	Z	29.926	2
51	MP3C	Mx	.013	2
52	MP3C	X	0	4
53	MP3C	Z	29.926	4
54	MP3C	Mx	.013	4
55	M59	X	0	1.5
56	M59	Z	118.984	1.5
57	M59	Mx	0	1.5
58	MP1A	X	0	1
59	MP1A	Z	45.425	1
60	MP1A	Mx	.023	1
61	MP1B	X	0	1
62	MP1B	Z	34.215	1
63	MP1B	Mx	.006	1
64	MP1C	X	0	1
65	MP1C	Z	34.215	1
66	MP1C	Mx	-.023	1
67	MP1A	X	0	1
68	MP1A	Z	54.803	1
69	MP1A	Mx	-.027	1
70	MP1B	X	0	1
71	MP1B	Z	41.725	1
72	MP1B	Mx	.028	1
73	MP1C	X	0	1
74	MP1C	Z	41.725	1
75	MP1C	Mx	-.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-34.618	1
2	MP1A	Z	59.961	1
3	MP1A	Mx	.052	1
4	MP1A	X	-34.618	5
5	MP1A	Z	59.961	5
6	MP1A	Mx	.052	5
7	MP1B	X	-17.364	1
8	MP1B	Z	30.075	1
9	MP1B	Mx	-.017	1
10	MP1B	X	-17.364	5
11	MP1B	Z	30.075	5
12	MP1B	Mx	-.017	5
13	MP1C	X	-34.618	1
14	MP1C	Z	59.961	1
15	MP1C	Mx	-.018	1
16	MP1C	X	-34.618	5
17	MP1C	Z	59.961	5
18	MP1C	Mx	-.018	5
19	MP1A	X	-34.618	1
20	MP1A	Z	59.961	1
21	MP1A	Mx	-.018	1
22	MP1A	X	-34.618	5
23	MP1A	Z	59.961	5
24	MP1A	Mx	-.018	5
25	MP1B	X	-17.364	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
26	MP1B	Z	30.075	1
27	MP1B	Mx	-.017	1
28	MP1B	X	-17.364	5
29	MP1B	Z	30.075	5
30	MP1B	Mx	-.017	5
31	MP1C	X	-34.618	1
32	MP1C	Z	59.961	1
33	MP1C	Mx	.052	1
34	MP1C	X	-34.618	5
35	MP1C	Z	59.961	5
36	MP1C	Mx	.052	5
37	MP3A	X	-23.5	2
38	MP3A	Z	40.702	2
39	MP3A	Mx	.012	2
40	MP3A	X	-23.5	4
41	MP3A	Z	40.702	4
42	MP3A	Mx	.012	4
43	MP3B	X	-10.695	2
44	MP3B	Z	18.524	2
45	MP3B	Mx	-.011	2
46	MP3B	X	-10.695	4
47	MP3B	Z	18.524	4
48	MP3B	Mx	-.011	4
49	MP3C	X	-23.5	2
50	MP3C	Z	40.702	2
51	MP3C	Mx	.012	2
52	MP3C	X	-23.5	4
53	MP3C	Z	40.702	4
54	MP3C	Mx	.012	4
55	M59	X	-55.966	1.5
56	M59	Z	96.936	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-20.844	1
59	MP1A	Z	36.103	1
60	MP1A	Mx	.008	1
61	MP1B	X	-15.239	1
62	MP1B	Z	26.395	1
63	MP1B	Mx	.015	1
64	MP1C	X	-20.844	1
65	MP1C	Z	36.103	1
66	MP1C	Mx	-.028	1
67	MP1A	X	-25.222	1
68	MP1A	Z	43.686	1
69	MP1A	Mx	-.034	1
70	MP1B	X	-18.683	1
71	MP1B	Z	32.36	1
72	MP1B	Mx	.019	1
73	MP1C	X	-25.222	1
74	MP1C	Z	43.686	1
75	MP1C	Mx	.009	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-40.037	1
2	MP1A	Z	23.115	1
3	MP1A	Mx	.034	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	-40.037	5
5	MP1A	Z	23.115	5
6	MP1A	Mx	.034	5
7	MP1B	X	-40.037	1
8	MP1B	Z	23.115	1
9	MP1B	Mx	-.007	1
10	MP1B	X	-40.037	5
11	MP1B	Z	23.115	5
12	MP1B	Mx	-.007	5
13	MP1C	X	-69.922	1
14	MP1C	Z	40.37	1
15	MP1C	Mx	-.047	1
16	MP1C	X	-69.922	5
17	MP1C	Z	40.37	5
18	MP1C	Mx	-.047	5
19	MP1A	X	-40.037	1
20	MP1A	Z	23.115	1
21	MP1A	Mx	.007	1
22	MP1A	X	-40.037	5
23	MP1A	Z	23.115	5
24	MP1A	Mx	.007	5
25	MP1B	X	-40.037	1
26	MP1B	Z	23.115	1
27	MP1B	Mx	-.034	1
28	MP1B	X	-40.037	5
29	MP1B	Z	23.115	5
30	MP1B	Mx	-.034	5
31	MP1C	X	-69.922	1
32	MP1C	Z	40.37	1
33	MP1C	Mx	.047	1
34	MP1C	X	-69.922	5
35	MP1C	Z	40.37	5
36	MP1C	Mx	.047	5
37	MP3A	X	-25.917	2
38	MP3A	Z	14.963	2
39	MP3A	Mx	.013	2
40	MP3A	X	-25.917	4
41	MP3A	Z	14.963	4
42	MP3A	Mx	.013	4
43	MP3B	X	-25.917	2
44	MP3B	Z	14.963	2
45	MP3B	Mx	-.013	2
46	MP3B	X	-25.917	4
47	MP3B	Z	14.963	4
48	MP3B	Mx	-.013	4
49	MP3C	X	-48.095	2
50	MP3C	Z	27.768	2
51	MP3C	Mx	0	2
52	MP3C	X	-48.095	4
53	MP3C	Z	27.768	4
54	MP3C	Mx	0	4
55	M59	X	-84.722	1.5
56	M59	Z	48.914	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-29.631	1
59	MP1A	Z	17.108	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP1A	Mx	-.006	1
61	MP1B	X	-29.631	1
62	MP1B	Z	17.108	1
63	MP1B	Mx	.023	1
64	MP1C	X	-39.339	1
65	MP1C	Z	22.712	1
66	MP1C	Mx	-.023	1
67	MP1A	X	-36.135	1
68	MP1A	Z	20.863	1
69	MP1A	Mx	-.028	1
70	MP1B	X	-36.135	1
71	MP1B	Z	20.863	1
72	MP1B	Mx	.008	1
73	MP1C	X	-47.461	1
74	MP1C	Z	27.402	1
75	MP1C	Mx	.027	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-34.728	1
2	MP1A	Z	0	1
3	MP1A	Mx	.017	1
4	MP1A	X	-34.728	5
5	MP1A	Z	0	5
6	MP1A	Mx	.017	5
7	MP1B	X	-69.236	1
8	MP1B	Z	0	1
9	MP1B	Mx	.018	1
10	MP1B	X	-69.236	5
11	MP1B	Z	0	5
12	MP1B	Mx	.018	5
13	MP1C	X	-69.236	1
14	MP1C	Z	0	1
15	MP1C	Mx	-.052	1
16	MP1C	X	-69.236	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.052	5
19	MP1A	X	-34.728	1
20	MP1A	Z	0	1
21	MP1A	Mx	.017	1
22	MP1A	X	-34.728	5
23	MP1A	Z	0	5
24	MP1A	Mx	.017	5
25	MP1B	X	-69.236	1
26	MP1B	Z	0	1
27	MP1B	Mx	-.052	1
28	MP1B	X	-69.236	5
29	MP1B	Z	0	5
30	MP1B	Mx	-.052	5
31	MP1C	X	-69.236	1
32	MP1C	Z	0	1
33	MP1C	Mx	.018	1
34	MP1C	X	-69.236	5
35	MP1C	Z	0	5
36	MP1C	Mx	.018	5
37	MP3A	X	-21.39	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
38	MP3A	Z	0	2
39	MP3A	Mx	.011	2
40	MP3A	X	-21.39	4
41	MP3A	Z	0	4
42	MP3A	Mx	.011	4
43	MP3B	X	-46.999	2
44	MP3B	Z	0	2
45	MP3B	Mx	-.012	2
46	MP3B	X	-46.999	4
47	MP3B	Z	0	4
48	MP3B	Mx	-.012	4
49	MP3C	X	-46.999	2
50	MP3C	Z	0	2
51	MP3C	Mx	-.012	2
52	MP3C	X	-46.999	4
53	MP3C	Z	0	4
54	MP3C	Mx	-.012	4
55	M59	X	-90.777	1.5
56	M59	Z	0	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-30.479	1
59	MP1A	Z	0	1
60	MP1A	Mx	-.015	1
61	MP1B	X	-41.688	1
62	MP1B	Z	0	1
63	MP1B	Mx	.028	1
64	MP1C	X	-41.688	1
65	MP1C	Z	0	1
66	MP1C	Mx	-.008	1
67	MP1A	X	-37.366	1
68	MP1A	Z	0	1
69	MP1A	Mx	-.019	1
70	MP1B	X	-50.444	1
71	MP1B	Z	0	1
72	MP1B	Mx	-.009	1
73	MP1C	X	-50.444	1
74	MP1C	Z	0	1
75	MP1C	Mx	.034	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	MP1A	X	-40.037	1
2	MP1A	Z	-23.115	1
3	MP1A	Mx	.007	1
4	MP1A	X	-40.037	5
5	MP1A	Z	-23.115	5
6	MP1A	Mx	.007	5
7	MP1B	X	-69.922	1
8	MP1B	Z	-40.37	1
9	MP1B	Mx	.047	1
10	MP1B	X	-69.922	5
11	MP1B	Z	-40.37	5
12	MP1B	Mx	.047	5
13	MP1C	X	-40.037	1
14	MP1C	Z	-23.115	1
15	MP1C	Mx	-.034	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	-40.037	5
17	MP1C	Z	-23.115	5
18	MP1C	Mx	-.034	5
19	MP1A	X	-40.037	1
20	MP1A	Z	-23.115	1
21	MP1A	Mx	.034	1
22	MP1A	X	-40.037	5
23	MP1A	Z	-23.115	5
24	MP1A	Mx	.034	5
25	MP1B	X	-69.922	1
26	MP1B	Z	-40.37	1
27	MP1B	Mx	-.047	1
28	MP1B	X	-69.922	5
29	MP1B	Z	-40.37	5
30	MP1B	Mx	-.047	5
31	MP1C	X	-40.037	1
32	MP1C	Z	-23.115	1
33	MP1C	Mx	-.007	1
34	MP1C	X	-40.037	5
35	MP1C	Z	-23.115	5
36	MP1C	Mx	-.007	5
37	MP3A	X	-25.917	2
38	MP3A	Z	-14.963	2
39	MP3A	Mx	.013	2
40	MP3A	X	-25.917	4
41	MP3A	Z	-14.963	4
42	MP3A	Mx	.013	4
43	MP3B	X	-48.095	2
44	MP3B	Z	-27.768	2
45	MP3B	Mx	0	2
46	MP3B	X	-48.095	4
47	MP3B	Z	-27.768	4
48	MP3B	Mx	0	4
49	MP3C	X	-25.917	2
50	MP3C	Z	-14.963	2
51	MP3C	Mx	-.013	2
52	MP3C	X	-25.917	4
53	MP3C	Z	-14.963	4
54	MP3C	Mx	-.013	4
55	M59	X	-84.722	1.5
56	M59	Z	-48.914	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-29.631	1
59	MP1A	Z	-17.108	1
60	MP1A	Mx	-.023	1
61	MP1B	X	-39.339	1
62	MP1B	Z	-22.712	1
63	MP1B	Mx	.023	1
64	MP1C	X	-29.631	1
65	MP1C	Z	-17.108	1
66	MP1C	Mx	.006	1
67	MP1A	X	-36.135	1
68	MP1A	Z	-20.863	1
69	MP1A	Mx	-.008	1
70	MP1B	X	-47.461	1
71	MP1B	Z	-27.402	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
72	MP1B	Mx	-.027	1
73	MP1C	X	-36.135	1
74	MP1C	Z	-20.863	1
75	MP1C	Mx	.028	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-34.618	1
2	MP1A	Z	-59.961	1
3	MP1A	Mx	-.018	1
4	MP1A	X	-34.618	5
5	MP1A	Z	-59.961	5
6	MP1A	Mx	-.018	5
7	MP1B	X	-34.618	1
8	MP1B	Z	-59.961	1
9	MP1B	Mx	.052	1
10	MP1B	X	-34.618	5
11	MP1B	Z	-59.961	5
12	MP1B	Mx	.052	5
13	MP1C	X	-17.364	1
14	MP1C	Z	-30.075	1
15	MP1C	Mx	-.017	1
16	MP1C	X	-17.364	5
17	MP1C	Z	-30.075	5
18	MP1C	Mx	-.017	5
19	MP1A	X	-34.618	1
20	MP1A	Z	-59.961	1
21	MP1A	Mx	.052	1
22	MP1A	X	-34.618	5
23	MP1A	Z	-59.961	5
24	MP1A	Mx	.052	5
25	MP1B	X	-34.618	1
26	MP1B	Z	-59.961	1
27	MP1B	Mx	-.018	1
28	MP1B	X	-34.618	5
29	MP1B	Z	-59.961	5
30	MP1B	Mx	-.018	5
31	MP1C	X	-17.364	1
32	MP1C	Z	-30.075	1
33	MP1C	Mx	-.017	1
34	MP1C	X	-17.364	5
35	MP1C	Z	-30.075	5
36	MP1C	Mx	-.017	5
37	MP3A	X	-23.5	2
38	MP3A	Z	-40.702	2
39	MP3A	Mx	.012	2
40	MP3A	X	-23.5	4
41	MP3A	Z	-40.702	4
42	MP3A	Mx	.012	4
43	MP3B	X	-23.5	2
44	MP3B	Z	-40.702	2
45	MP3B	Mx	.012	2
46	MP3B	X	-23.5	4
47	MP3B	Z	-40.702	4
48	MP3B	Mx	.012	4
49	MP3C	X	-10.695	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
50	MP3C	Z	-18.524	2
51	MP3C	Mx	-.011	2
52	MP3C	X	-10.695	4
53	MP3C	Z	-18.524	4
54	MP3C	Mx	-.011	4
55	M59	X	-55.966	1.5
56	M59	Z	-96.936	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-20.844	1
59	MP1A	Z	-36.103	1
60	MP1A	Mx	-.028	1
61	MP1B	X	-20.844	1
62	MP1B	Z	-36.103	1
63	MP1B	Mx	.008	1
64	MP1C	X	-15.239	1
65	MP1C	Z	-26.395	1
66	MP1C	Mx	.015	1
67	MP1A	X	-25.222	1
68	MP1A	Z	-43.686	1
69	MP1A	Mx	.009	1
70	MP1B	X	-25.222	1
71	MP1B	Z	-43.686	1
72	MP1B	Mx	-.034	1
73	MP1C	X	-18.683	1
74	MP1C	Z	-32.36	1
75	MP1C	Mx	.019	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	1
2	MP1A	Z	-25.021	1
3	MP1A	Mx	-.015	1
4	MP1A	X	0	5
5	MP1A	Z	-25.021	5
6	MP1A	Mx	-.015	5
7	MP1B	X	0	1
8	MP1B	Z	-19.194	1
9	MP1B	Mx	.014	1
10	MP1B	X	0	5
11	MP1B	Z	-19.194	5
12	MP1B	Mx	.014	5
13	MP1C	X	0	1
14	MP1C	Z	-19.194	1
15	MP1C	Mx	-.003	1
16	MP1C	X	0	5
17	MP1C	Z	-19.194	5
18	MP1C	Mx	-.003	5
19	MP1A	X	0	1
20	MP1A	Z	-25.021	1
21	MP1A	Mx	.015	1
22	MP1A	X	0	5
23	MP1A	Z	-25.021	5
24	MP1A	Mx	.015	5
25	MP1B	X	0	1
26	MP1B	Z	-19.194	1
27	MP1B	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
28	MP1B	X	0	5
29	MP1B	Z	-19.194	5
30	MP1B	Mx	.003	5
31	MP1C	X	0	1
32	MP1C	Z	-19.194	1
33	MP1C	Mx	-.014	1
34	MP1C	X	0	5
35	MP1C	Z	-19.194	5
36	MP1C	Mx	-.014	5
37	MP3A	X	0	2
38	MP3A	Z	-11.987	2
39	MP3A	Mx	0	2
40	MP3A	X	0	4
41	MP3A	Z	-11.987	4
42	MP3A	Mx	0	4
43	MP3B	X	0	2
44	MP3B	Z	-6.79	2
45	MP3B	Mx	.003	2
46	MP3B	X	0	4
47	MP3B	Z	-6.79	4
48	MP3B	Mx	.003	4
49	MP3C	X	0	2
50	MP3C	Z	-6.79	2
51	MP3C	Mx	-.003	2
52	MP3C	X	0	4
53	MP3C	Z	-6.79	4
54	MP3C	Mx	-.003	4
55	M59	X	0	1.5
56	M59	Z	-25.445	1.5
57	M59	Mx	0	1.5
58	MP1A	X	0	1
59	MP1A	Z	-12.376	1
60	MP1A	Mx	-.006	1
61	MP1B	X	0	1
62	MP1B	Z	-9.548	1
63	MP1B	Mx	-.002	1
64	MP1C	X	0	1
65	MP1C	Z	-9.548	1
66	MP1C	Mx	.007	1
67	MP1A	X	0	1
68	MP1A	Z	-12.376	1
69	MP1A	Mx	.006	1
70	MP1B	X	0	1
71	MP1B	Z	-9.661	1
72	MP1B	Mx	-.007	1
73	MP1C	X	0	1
74	MP1C	Z	-9.661	1
75	MP1C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	11.539	1
2	MP1A	Z	-19.987	1
3	MP1A	Mx	-.017	1
4	MP1A	X	11.539	5
5	MP1A	Z	-19.987	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	-.017	5
7	MP1B	X	8.625	1
8	MP1B	Z	-14.94	1
9	MP1B	Mx	.009	1
10	MP1B	X	8.625	5
11	MP1B	Z	-14.94	5
12	MP1B	Mx	.009	5
13	MP1C	X	11.539	1
14	MP1C	Z	-19.987	1
15	MP1C	Mx	.006	1
16	MP1C	X	11.539	5
17	MP1C	Z	-19.987	5
18	MP1C	Mx	.006	5
19	MP1A	X	11.539	1
20	MP1A	Z	-19.987	1
21	MP1A	Mx	.006	1
22	MP1A	X	11.539	5
23	MP1A	Z	-19.987	5
24	MP1A	Mx	.006	5
25	MP1B	X	8.625	1
26	MP1B	Z	-14.94	1
27	MP1B	Mx	.009	1
28	MP1B	X	8.625	5
29	MP1B	Z	-14.94	5
30	MP1B	Mx	.009	5
31	MP1C	X	11.539	1
32	MP1C	Z	-19.987	1
33	MP1C	Mx	-.017	1
34	MP1C	X	11.539	5
35	MP1C	Z	-19.987	5
36	MP1C	Mx	-.017	5
37	MP3A	X	5.127	2
38	MP3A	Z	-8.881	2
39	MP3A	Mx	-.003	2
40	MP3A	X	5.127	4
41	MP3A	Z	-8.881	4
42	MP3A	Mx	-.003	4
43	MP3B	X	2.529	2
44	MP3B	Z	-4.38	2
45	MP3B	Mx	.003	2
46	MP3B	X	2.529	4
47	MP3B	Z	-4.38	4
48	MP3B	Mx	.003	4
49	MP3C	X	5.127	2
50	MP3C	Z	-8.881	2
51	MP3C	Mx	-.003	2
52	MP3C	X	5.127	4
53	MP3C	Z	-8.881	4
54	MP3C	Mx	-.003	4
55	M59	X	12.029	1.5
56	M59	Z	-20.834	1.5
57	M59	Mx	0	1.5
58	MP1A	X	5.717	1
59	MP1A	Z	-9.901	1
60	MP1A	Mx	-.002	1
61	MP1B	X	4.303	1

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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
62	MP1B	Z	-7.452	1
63	MP1B	Mx	-.004	1
64	MP1C	X	5.717	1
65	MP1C	Z	-9.901	1
66	MP1C	Mx	.008	1
67	MP1A	X	5.735	1
68	MP1A	Z	-9.934	1
69	MP1A	Mx	.008	1
70	MP1B	X	4.378	1
71	MP1B	Z	-7.583	1
72	MP1B	Mx	-.004	1
73	MP1C	X	5.735	1
74	MP1C	Z	-9.934	1
75	MP1C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
1	MP1A	X	16.622	1
2	MP1A	Z	-9.597	1
3	MP1A	Mx	-.014	1
4	MP1A	X	16.622	5
5	MP1A	Z	-9.597	5
6	MP1A	Mx	-.014	5
7	MP1B	X	16.622	1
8	MP1B	Z	-9.597	1
9	MP1B	Mx	.003	1
10	MP1B	X	16.622	5
11	MP1B	Z	-9.597	5
12	MP1B	Mx	.003	5
13	MP1C	X	21.669	1
14	MP1C	Z	-12.511	1
15	MP1C	Mx	.015	1
16	MP1C	X	21.669	5
17	MP1C	Z	-12.511	5
18	MP1C	Mx	.015	5
19	MP1A	X	16.622	1
20	MP1A	Z	-9.597	1
21	MP1A	Mx	-.003	1
22	MP1A	X	16.622	5
23	MP1A	Z	-9.597	5
24	MP1A	Mx	-.003	5
25	MP1B	X	16.622	1
26	MP1B	Z	-9.597	1
27	MP1B	Mx	.014	1
28	MP1B	X	16.622	5
29	MP1B	Z	-9.597	5
30	MP1B	Mx	.014	5
31	MP1C	X	21.669	1
32	MP1C	Z	-12.511	1
33	MP1C	Mx	-.015	1
34	MP1C	X	21.669	5
35	MP1C	Z	-12.511	5
36	MP1C	Mx	-.015	5
37	MP3A	X	5.88	2
38	MP3A	Z	-3.395	2
39	MP3A	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft. %]
40	MP3A	X	5.88	4
41	MP3A	Z	-3.395	4
42	MP3A	Mx	-.003	4
43	MP3B	X	5.88	2
44	MP3B	Z	-3.395	2
45	MP3B	Mx	.003	2
46	MP3B	X	5.88	4
47	MP3B	Z	-3.395	4
48	MP3B	Mx	.003	4
49	MP3C	X	10.381	2
50	MP3C	Z	-5.994	2
51	MP3C	Mx	0	2
52	MP3C	X	10.381	4
53	MP3C	Z	-5.994	4
54	MP3C	Mx	0	4
55	M59	X	18.43	1.5
56	M59	Z	-10.641	1.5
57	M59	Mx	0	1.5
58	MP1A	X	8.269	1
59	MP1A	Z	-4.774	1
60	MP1A	Mx	.002	1
61	MP1B	X	8.269	1
62	MP1B	Z	-4.774	1
63	MP1B	Mx	-.007	1
64	MP1C	X	10.718	1
65	MP1C	Z	-6.188	1
66	MP1C	Mx	.006	1
67	MP1A	X	8.367	1
68	MP1A	Z	-4.831	1
69	MP1A	Mx	.007	1
70	MP1B	X	8.367	1
71	MP1B	Z	-4.831	1
72	MP1B	Mx	-.002	1
73	MP1C	X	10.718	1
74	MP1C	Z	-6.188	1
75	MP1C	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft. %]
1	MP1A	X	17.251	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.009	1
4	MP1A	X	17.251	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.009	5
7	MP1B	X	23.079	1
8	MP1B	Z	0	1
9	MP1B	Mx	-.006	1
10	MP1B	X	23.079	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.006	5
13	MP1C	X	23.079	1
14	MP1C	Z	0	1
15	MP1C	Mx	.017	1
16	MP1C	X	23.079	5
17	MP1C	Z	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	.017	5
19	MP1A	X	17.251	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.009	1
22	MP1A	X	17.251	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.009	5
25	MP1B	X	23.079	1
26	MP1B	Z	0	1
27	MP1B	Mx	.017	1
28	MP1B	X	23.079	5
29	MP1B	Z	0	5
30	MP1B	Mx	.017	5
31	MP1C	X	23.079	1
32	MP1C	Z	0	1
33	MP1C	Mx	-.006	1
34	MP1C	X	23.079	5
35	MP1C	Z	0	5
36	MP1C	Mx	-.006	5
37	MP3A	X	5.057	2
38	MP3A	Z	0	2
39	MP3A	Mx	-.003	2
40	MP3A	X	5.057	4
41	MP3A	Z	0	4
42	MP3A	Mx	-.003	4
43	MP3B	X	10.255	2
44	MP3B	Z	0	2
45	MP3B	Mx	.003	2
46	MP3B	X	10.255	4
47	MP3B	Z	0	4
48	MP3B	Mx	.003	4
49	MP3C	X	10.255	2
50	MP3C	Z	0	2
51	MP3C	Mx	.003	2
52	MP3C	X	10.255	4
53	MP3C	Z	0	4
54	MP3C	Mx	.003	4
55	M59	X	19.894	1.5
56	M59	Z	0	1.5
57	M59	Mx	0	1.5
58	MP1A	X	8.605	1
59	MP1A	Z	0	1
60	MP1A	Mx	.004	1
61	MP1B	X	11.433	1
62	MP1B	Z	0	1
63	MP1B	Mx	-.008	1
64	MP1C	X	11.433	1
65	MP1C	Z	0	1
66	MP1C	Mx	.002	1
67	MP1A	X	8.756	1
68	MP1A	Z	0	1
69	MP1A	Mx	.004	1
70	MP1B	X	11.471	1
71	MP1B	Z	0	1
72	MP1B	Mx	.002	1
73	MP1C	X	11.471	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
74	MP1C	Z	0	1
75	MP1C	Mx	-.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	16.622	1
2	MP1A	Z	9.597	1
3	MP1A	Mx	-.003	1
4	MP1A	X	16.622	5
5	MP1A	Z	9.597	5
6	MP1A	Mx	-.003	5
7	MP1B	X	21.669	1
8	MP1B	Z	12.511	1
9	MP1B	Mx	-.015	1
10	MP1B	X	21.669	5
11	MP1B	Z	12.511	5
12	MP1B	Mx	-.015	5
13	MP1C	X	16.622	1
14	MP1C	Z	9.597	1
15	MP1C	Mx	.014	1
16	MP1C	X	16.622	5
17	MP1C	Z	9.597	5
18	MP1C	Mx	.014	5
19	MP1A	X	16.622	1
20	MP1A	Z	9.597	1
21	MP1A	Mx	-.014	1
22	MP1A	X	16.622	5
23	MP1A	Z	9.597	5
24	MP1A	Mx	-.014	5
25	MP1B	X	21.669	1
26	MP1B	Z	12.511	1
27	MP1B	Mx	.015	1
28	MP1B	X	21.669	5
29	MP1B	Z	12.511	5
30	MP1B	Mx	.015	5
31	MP1C	X	16.622	1
32	MP1C	Z	9.597	1
33	MP1C	Mx	.003	1
34	MP1C	X	16.622	5
35	MP1C	Z	9.597	5
36	MP1C	Mx	.003	5
37	MP3A	X	5.88	2
38	MP3A	Z	3.395	2
39	MP3A	Mx	-.003	2
40	MP3A	X	5.88	4
41	MP3A	Z	3.395	4
42	MP3A	Mx	-.003	4
43	MP3B	X	10.381	2
44	MP3B	Z	5.994	2
45	MP3B	Mx	0	2
46	MP3B	X	10.381	4
47	MP3B	Z	5.994	4
48	MP3B	Mx	0	4
49	MP3C	X	5.88	2
50	MP3C	Z	3.395	2
51	MP3C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP3C	X	5.88	4
53	MP3C	Z	3.395	4
54	MP3C	Mx	.003	4
55	M59	X	18.43	1.5
56	M59	Z	10.641	1.5
57	M59	Mx	0	1.5
58	MP1A	X	8.269	1
59	MP1A	Z	4.774	1
60	MP1A	Mx	.007	1
61	MP1B	X	10.718	1
62	MP1B	Z	6.188	1
63	MP1B	Mx	-.006	1
64	MP1C	X	8.269	1
65	MP1C	Z	4.774	1
66	MP1C	Mx	-.002	1
67	MP1A	X	8.367	1
68	MP1A	Z	4.831	1
69	MP1A	Mx	.002	1
70	MP1B	X	10.718	1
71	MP1B	Z	6.188	1
72	MP1B	Mx	.006	1
73	MP1C	X	8.367	1
74	MP1C	Z	4.831	1
75	MP1C	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	11.539	1
2	MP1A	Z	19.987	1
3	MP1A	Mx	.006	1
4	MP1A	X	11.539	5
5	MP1A	Z	19.987	5
6	MP1A	Mx	.006	5
7	MP1B	X	11.539	1
8	MP1B	Z	19.987	1
9	MP1B	Mx	-.017	1
10	MP1B	X	11.539	5
11	MP1B	Z	19.987	5
12	MP1B	Mx	-.017	5
13	MP1C	X	8.625	1
14	MP1C	Z	14.94	1
15	MP1C	Mx	.009	1
16	MP1C	X	8.625	5
17	MP1C	Z	14.94	5
18	MP1C	Mx	.009	5
19	MP1A	X	11.539	1
20	MP1A	Z	19.987	1
21	MP1A	Mx	-.017	1
22	MP1A	X	11.539	5
23	MP1A	Z	19.987	5
24	MP1A	Mx	-.017	5
25	MP1B	X	11.539	1
26	MP1B	Z	19.987	1
27	MP1B	Mx	.006	1
28	MP1B	X	11.539	5
29	MP1B	Z	19.987	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
30	MP1B	Mx	.006	5
31	MP1C	X	8.625	1
32	MP1C	Z	14.94	1
33	MP1C	Mx	.009	1
34	MP1C	X	8.625	5
35	MP1C	Z	14.94	5
36	MP1C	Mx	.009	5
37	MP3A	X	5.127	2
38	MP3A	Z	8.881	2
39	MP3A	Mx	-.003	2
40	MP3A	X	5.127	4
41	MP3A	Z	8.881	4
42	MP3A	Mx	-.003	4
43	MP3B	X	5.127	2
44	MP3B	Z	8.881	2
45	MP3B	Mx	-.003	2
46	MP3B	X	5.127	4
47	MP3B	Z	8.881	4
48	MP3B	Mx	-.003	4
49	MP3C	X	2.529	2
50	MP3C	Z	4.38	2
51	MP3C	Mx	.003	2
52	MP3C	X	2.529	4
53	MP3C	Z	4.38	4
54	MP3C	Mx	.003	4
55	M59	X	12.029	1.5
56	M59	Z	20.834	1.5
57	M59	Mx	0	1.5
58	MP1A	X	5.717	1
59	MP1A	Z	9.901	1
60	MP1A	Mx	.008	1
61	MP1B	X	5.717	1
62	MP1B	Z	9.901	1
63	MP1B	Mx	-.002	1
64	MP1C	X	4.303	1
65	MP1C	Z	7.452	1
66	MP1C	Mx	-.004	1
67	MP1A	X	5.735	1
68	MP1A	Z	9.934	1
69	MP1A	Mx	-.002	1
70	MP1B	X	5.735	1
71	MP1B	Z	9.934	1
72	MP1B	Mx	.008	1
73	MP1C	X	4.378	1
74	MP1C	Z	7.583	1
75	MP1C	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	1
2	MP1A	Z	25.021	1
3	MP1A	Mx	.015	1
4	MP1A	X	0	5
5	MP1A	Z	25.021	5
6	MP1A	Mx	.015	5
7	MP1B	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	19.194	1
9	MP1B	Mx	-.014	1
10	MP1B	X	0	5
11	MP1B	Z	19.194	5
12	MP1B	Mx	-.014	5
13	MP1C	X	0	1
14	MP1C	Z	19.194	1
15	MP1C	Mx	.003	1
16	MP1C	X	0	5
17	MP1C	Z	19.194	5
18	MP1C	Mx	.003	5
19	MP1A	X	0	1
20	MP1A	Z	25.021	1
21	MP1A	Mx	-.015	1
22	MP1A	X	0	5
23	MP1A	Z	25.021	5
24	MP1A	Mx	-.015	5
25	MP1B	X	0	1
26	MP1B	Z	19.194	1
27	MP1B	Mx	-.003	1
28	MP1B	X	0	5
29	MP1B	Z	19.194	5
30	MP1B	Mx	-.003	5
31	MP1C	X	0	1
32	MP1C	Z	19.194	1
33	MP1C	Mx	.014	1
34	MP1C	X	0	5
35	MP1C	Z	19.194	5
36	MP1C	Mx	.014	5
37	MP3A	X	0	2
38	MP3A	Z	11.987	2
39	MP3A	Mx	0	2
40	MP3A	X	0	4
41	MP3A	Z	11.987	4
42	MP3A	Mx	0	4
43	MP3B	X	0	2
44	MP3B	Z	6.79	2
45	MP3B	Mx	-.003	2
46	MP3B	X	0	4
47	MP3B	Z	6.79	4
48	MP3B	Mx	-.003	4
49	MP3C	X	0	2
50	MP3C	Z	6.79	2
51	MP3C	Mx	.003	2
52	MP3C	X	0	4
53	MP3C	Z	6.79	4
54	MP3C	Mx	.003	4
55	M59	X	0	1.5
56	M59	Z	25.445	1.5
57	M59	Mx	0	1.5
58	MP1A	X	0	1
59	MP1A	Z	12.376	1
60	MP1A	Mx	.006	1
61	MP1B	X	0	1
62	MP1B	Z	9.548	1
63	MP1B	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
64	MP1C	X	0	1
65	MP1C	Z	9.548	1
66	MP1C	Mx	-.007	1
67	MP1A	X	0	1
68	MP1A	Z	12.376	1
69	MP1A	Mx	-.006	1
70	MP1B	X	0	1
71	MP1B	Z	9.661	1
72	MP1B	Mx	.007	1
73	MP1C	X	0	1
74	MP1C	Z	9.661	1
75	MP1C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-11.539	1
2	MP1A	Z	19.987	1
3	MP1A	Mx	.017	1
4	MP1A	X	-11.539	5
5	MP1A	Z	19.987	5
6	MP1A	Mx	.017	5
7	MP1B	X	-8.625	1
8	MP1B	Z	14.94	1
9	MP1B	Mx	-.009	1
10	MP1B	X	-8.625	5
11	MP1B	Z	14.94	5
12	MP1B	Mx	-.009	5
13	MP1C	X	-11.539	1
14	MP1C	Z	19.987	1
15	MP1C	Mx	-.006	1
16	MP1C	X	-11.539	5
17	MP1C	Z	19.987	5
18	MP1C	Mx	-.006	5
19	MP1A	X	-11.539	1
20	MP1A	Z	19.987	1
21	MP1A	Mx	-.006	1
22	MP1A	X	-11.539	5
23	MP1A	Z	19.987	5
24	MP1A	Mx	-.006	5
25	MP1B	X	-8.625	1
26	MP1B	Z	14.94	1
27	MP1B	Mx	-.009	1
28	MP1B	X	-8.625	5
29	MP1B	Z	14.94	5
30	MP1B	Mx	-.009	5
31	MP1C	X	-11.539	1
32	MP1C	Z	19.987	1
33	MP1C	Mx	.017	1
34	MP1C	X	-11.539	5
35	MP1C	Z	19.987	5
36	MP1C	Mx	.017	5
37	MP3A	X	-5.127	2
38	MP3A	Z	8.881	2
39	MP3A	Mx	.003	2
40	MP3A	X	-5.127	4
41	MP3A	Z	8.881	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
42	MP3A	Mx	.003	4
43	MP3B	X	-2.529	2
44	MP3B	Z	4.38	2
45	MP3B	Mx	-.003	2
46	MP3B	X	-2.529	4
47	MP3B	Z	4.38	4
48	MP3B	Mx	-.003	4
49	MP3C	X	-5.127	2
50	MP3C	Z	8.881	2
51	MP3C	Mx	.003	2
52	MP3C	X	-5.127	4
53	MP3C	Z	8.881	4
54	MP3C	Mx	.003	4
55	M59	X	-12.029	1.5
56	M59	Z	20.834	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-5.717	1
59	MP1A	Z	9.901	1
60	MP1A	Mx	.002	1
61	MP1B	X	-4.303	1
62	MP1B	Z	7.452	1
63	MP1B	Mx	.004	1
64	MP1C	X	-5.717	1
65	MP1C	Z	9.901	1
66	MP1C	Mx	-.008	1
67	MP1A	X	-5.735	1
68	MP1A	Z	9.934	1
69	MP1A	Mx	-.008	1
70	MP1B	X	-4.378	1
71	MP1B	Z	7.583	1
72	MP1B	Mx	.004	1
73	MP1C	X	-5.735	1
74	MP1C	Z	9.934	1
75	MP1C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-16.622	1
2	MP1A	Z	9.597	1
3	MP1A	Mx	.014	1
4	MP1A	X	-16.622	5
5	MP1A	Z	9.597	5
6	MP1A	Mx	.014	5
7	MP1B	X	-16.622	1
8	MP1B	Z	9.597	1
9	MP1B	Mx	-.003	1
10	MP1B	X	-16.622	5
11	MP1B	Z	9.597	5
12	MP1B	Mx	-.003	5
13	MP1C	X	-21.669	1
14	MP1C	Z	12.511	1
15	MP1C	Mx	-.015	1
16	MP1C	X	-21.669	5
17	MP1C	Z	12.511	5
18	MP1C	Mx	-.015	5
19	MP1A	X	-16.622	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1A	Z	9.597	1
21	MP1A	Mx	.003	1
22	MP1A	X	-16.622	5
23	MP1A	Z	9.597	5
24	MP1A	Mx	.003	5
25	MP1B	X	-16.622	1
26	MP1B	Z	9.597	1
27	MP1B	Mx	-.014	1
28	MP1B	X	-16.622	5
29	MP1B	Z	9.597	5
30	MP1B	Mx	-.014	5
31	MP1C	X	-21.669	1
32	MP1C	Z	12.511	1
33	MP1C	Mx	.015	1
34	MP1C	X	-21.669	5
35	MP1C	Z	12.511	5
36	MP1C	Mx	.015	5
37	MP3A	X	-5.88	2
38	MP3A	Z	3.395	2
39	MP3A	Mx	.003	2
40	MP3A	X	-5.88	4
41	MP3A	Z	3.395	4
42	MP3A	Mx	.003	4
43	MP3B	X	-5.88	2
44	MP3B	Z	3.395	2
45	MP3B	Mx	-.003	2
46	MP3B	X	-5.88	4
47	MP3B	Z	3.395	4
48	MP3B	Mx	-.003	4
49	MP3C	X	-10.381	2
50	MP3C	Z	5.994	2
51	MP3C	Mx	0	2
52	MP3C	X	-10.381	4
53	MP3C	Z	5.994	4
54	MP3C	Mx	0	4
55	M59	X	-18.43	1.5
56	M59	Z	10.641	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-8.269	1
59	MP1A	Z	4.774	1
60	MP1A	Mx	-.002	1
61	MP1B	X	-8.269	1
62	MP1B	Z	4.774	1
63	MP1B	Mx	.007	1
64	MP1C	X	-10.718	1
65	MP1C	Z	6.188	1
66	MP1C	Mx	-.006	1
67	MP1A	X	-8.367	1
68	MP1A	Z	4.831	1
69	MP1A	Mx	-.007	1
70	MP1B	X	-8.367	1
71	MP1B	Z	4.831	1
72	MP1B	Mx	.002	1
73	MP1C	X	-10.718	1
74	MP1C	Z	6.188	1
75	MP1C	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-17.251	1
2	MP1A	Z	0	1
3	MP1A	Mx	.009	1
4	MP1A	X	-17.251	5
5	MP1A	Z	0	5
6	MP1A	Mx	.009	5
7	MP1B	X	-23.079	1
8	MP1B	Z	0	1
9	MP1B	Mx	.006	1
10	MP1B	X	-23.079	5
11	MP1B	Z	0	5
12	MP1B	Mx	.006	5
13	MP1C	X	-23.079	1
14	MP1C	Z	0	1
15	MP1C	Mx	-.017	1
16	MP1C	X	-23.079	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.017	5
19	MP1A	X	-17.251	1
20	MP1A	Z	0	1
21	MP1A	Mx	.009	1
22	MP1A	X	-17.251	5
23	MP1A	Z	0	5
24	MP1A	Mx	.009	5
25	MP1B	X	-23.079	1
26	MP1B	Z	0	1
27	MP1B	Mx	-.017	1
28	MP1B	X	-23.079	5
29	MP1B	Z	0	5
30	MP1B	Mx	-.017	5
31	MP1C	X	-23.079	1
32	MP1C	Z	0	1
33	MP1C	Mx	.006	1
34	MP1C	X	-23.079	5
35	MP1C	Z	0	5
36	MP1C	Mx	.006	5
37	MP3A	X	-5.057	2
38	MP3A	Z	0	2
39	MP3A	Mx	.003	2
40	MP3A	X	-5.057	4
41	MP3A	Z	0	4
42	MP3A	Mx	.003	4
43	MP3B	X	-10.255	2
44	MP3B	Z	0	2
45	MP3B	Mx	-.003	2
46	MP3B	X	-10.255	4
47	MP3B	Z	0	4
48	MP3B	Mx	-.003	4
49	MP3C	X	-10.255	2
50	MP3C	Z	0	2
51	MP3C	Mx	-.003	2
52	MP3C	X	-10.255	4
53	MP3C	Z	0	4
54	MP3C	Mx	-.003	4
55	M59	X	-19.894	1.5
56	M59	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	M59	Mx	0	1.5
58	MP1A	X	-8.605	1
59	MP1A	Z	0	1
60	MP1A	Mx	-.004	1
61	MP1B	X	-11.433	1
62	MP1B	Z	0	1
63	MP1B	Mx	.008	1
64	MP1C	X	-11.433	1
65	MP1C	Z	0	1
66	MP1C	Mx	-.002	1
67	MP1A	X	-8.756	1
68	MP1A	Z	0	1
69	MP1A	Mx	-.004	1
70	MP1B	X	-11.471	1
71	MP1B	Z	0	1
72	MP1B	Mx	-.002	1
73	MP1C	X	-11.471	1
74	MP1C	Z	0	1
75	MP1C	Mx	.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.622	1
2	MP1A	Z	-9.597	1
3	MP1A	Mx	.003	1
4	MP1A	X	-16.622	5
5	MP1A	Z	-9.597	5
6	MP1A	Mx	.003	5
7	MP1B	X	-21.669	1
8	MP1B	Z	-12.511	1
9	MP1B	Mx	.015	1
10	MP1B	X	-21.669	5
11	MP1B	Z	-12.511	5
12	MP1B	Mx	.015	5
13	MP1C	X	-16.622	1
14	MP1C	Z	-9.597	1
15	MP1C	Mx	-.014	1
16	MP1C	X	-16.622	5
17	MP1C	Z	-9.597	5
18	MP1C	Mx	-.014	5
19	MP1A	X	-16.622	1
20	MP1A	Z	-9.597	1
21	MP1A	Mx	.014	1
22	MP1A	X	-16.622	5
23	MP1A	Z	-9.597	5
24	MP1A	Mx	.014	5
25	MP1B	X	-21.669	1
26	MP1B	Z	-12.511	1
27	MP1B	Mx	-.015	1
28	MP1B	X	-21.669	5
29	MP1B	Z	-12.511	5
30	MP1B	Mx	-.015	5
31	MP1C	X	-16.622	1
32	MP1C	Z	-9.597	1
33	MP1C	Mx	-.003	1
34	MP1C	X	-16.622	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP1C	Z	-9.597	5
36	MP1C	Mx	-.003	5
37	MP3A	X	-5.88	2
38	MP3A	Z	-3.395	2
39	MP3A	Mx	.003	2
40	MP3A	X	-5.88	4
41	MP3A	Z	-3.395	4
42	MP3A	Mx	.003	4
43	MP3B	X	-10.381	2
44	MP3B	Z	-5.994	2
45	MP3B	Mx	0	2
46	MP3B	X	-10.381	4
47	MP3B	Z	-5.994	4
48	MP3B	Mx	0	4
49	MP3C	X	-5.88	2
50	MP3C	Z	-3.395	2
51	MP3C	Mx	-.003	2
52	MP3C	X	-5.88	4
53	MP3C	Z	-3.395	4
54	MP3C	Mx	-.003	4
55	M59	X	-18.43	1.5
56	M59	Z	-10.641	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-8.269	1
59	MP1A	Z	-4.774	1
60	MP1A	Mx	-.007	1
61	MP1B	X	-10.718	1
62	MP1B	Z	-6.188	1
63	MP1B	Mx	.006	1
64	MP1C	X	-8.269	1
65	MP1C	Z	-4.774	1
66	MP1C	Mx	.002	1
67	MP1A	X	-8.367	1
68	MP1A	Z	-4.831	1
69	MP1A	Mx	-.002	1
70	MP1B	X	-10.718	1
71	MP1B	Z	-6.188	1
72	MP1B	Mx	-.006	1
73	MP1C	X	-8.367	1
74	MP1C	Z	-4.831	1
75	MP1C	Mx	.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-11.539	1
2	MP1A	Z	-19.987	1
3	MP1A	Mx	-.006	1
4	MP1A	X	-11.539	5
5	MP1A	Z	-19.987	5
6	MP1A	Mx	-.006	5
7	MP1B	X	-11.539	1
8	MP1B	Z	-19.987	1
9	MP1B	Mx	.017	1
10	MP1B	X	-11.539	5
11	MP1B	Z	-19.987	5
12	MP1B	Mx	.017	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
13	MP1C	X	-8.625	1
14	MP1C	Z	-14.94	1
15	MP1C	Mx	-.009	1
16	MP1C	X	-8.625	5
17	MP1C	Z	-14.94	5
18	MP1C	Mx	-.009	5
19	MP1A	X	-11.539	1
20	MP1A	Z	-19.987	1
21	MP1A	Mx	.017	1
22	MP1A	X	-11.539	5
23	MP1A	Z	-19.987	5
24	MP1A	Mx	.017	5
25	MP1B	X	-11.539	1
26	MP1B	Z	-19.987	1
27	MP1B	Mx	-.006	1
28	MP1B	X	-11.539	5
29	MP1B	Z	-19.987	5
30	MP1B	Mx	-.006	5
31	MP1C	X	-8.625	1
32	MP1C	Z	-14.94	1
33	MP1C	Mx	-.009	1
34	MP1C	X	-8.625	5
35	MP1C	Z	-14.94	5
36	MP1C	Mx	-.009	5
37	MP3A	X	-5.127	2
38	MP3A	Z	-8.881	2
39	MP3A	Mx	.003	2
40	MP3A	X	-5.127	4
41	MP3A	Z	-8.881	4
42	MP3A	Mx	.003	4
43	MP3B	X	-5.127	2
44	MP3B	Z	-8.881	2
45	MP3B	Mx	.003	2
46	MP3B	X	-5.127	4
47	MP3B	Z	-8.881	4
48	MP3B	Mx	.003	4
49	MP3C	X	-2.529	2
50	MP3C	Z	-4.38	2
51	MP3C	Mx	-.003	2
52	MP3C	X	-2.529	4
53	MP3C	Z	-4.38	4
54	MP3C	Mx	-.003	4
55	M59	X	-12.029	1.5
56	M59	Z	-20.834	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-5.717	1
59	MP1A	Z	-9.901	1
60	MP1A	Mx	-.008	1
61	MP1B	X	-5.717	1
62	MP1B	Z	-9.901	1
63	MP1B	Mx	.002	1
64	MP1C	X	-4.303	1
65	MP1C	Z	-7.452	1
66	MP1C	Mx	.004	1
67	MP1A	X	-5.735	1
68	MP1A	Z	-9.934	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1A	Mx	.002	1
70	MP1B	X	-5.735	1
71	MP1B	Z	-9.934	1
72	MP1B	Mx	-.008	1
73	MP1C	X	-4.378	1
74	MP1C	Z	-7.583	1
75	MP1C	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	-5.495	1
3	MP1A	Mx	-.003	1
4	MP1A	X	0	5
5	MP1A	Z	-5.495	5
6	MP1A	Mx	-.003	5
7	MP1B	X	0	1
8	MP1B	Z	-3.146	1
9	MP1B	Mx	.002	1
10	MP1B	X	0	5
11	MP1B	Z	-3.146	5
12	MP1B	Mx	.002	5
13	MP1C	X	0	1
14	MP1C	Z	-3.146	1
15	MP1C	Mx	-.000445	1
16	MP1C	X	0	5
17	MP1C	Z	-3.146	5
18	MP1C	Mx	-.000445	5
19	MP1A	X	0	1
20	MP1A	Z	-5.495	1
21	MP1A	Mx	.003	1
22	MP1A	X	0	5
23	MP1A	Z	-5.495	5
24	MP1A	Mx	.003	5
25	MP1B	X	0	1
26	MP1B	Z	-3.146	1
27	MP1B	Mx	.000445	1
28	MP1B	X	0	5
29	MP1B	Z	-3.146	5
30	MP1B	Mx	.000445	5
31	MP1C	X	0	1
32	MP1C	Z	-3.146	1
33	MP1C	Mx	-.002	1
34	MP1C	X	0	5
35	MP1C	Z	-3.146	5
36	MP1C	Mx	-.002	5
37	MP3A	X	0	2
38	MP3A	Z	-3.779	2
39	MP3A	Mx	0	2
40	MP3A	X	0	4
41	MP3A	Z	-3.779	4
42	MP3A	Mx	0	4
43	MP3B	X	0	2
44	MP3B	Z	-2.037	2
45	MP3B	Mx	.000882	2
46	MP3B	X	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
47	MP3B	Z	-2.037	4
48	MP3B	Mx	.000882	4
49	MP3C	X	0	2
50	MP3C	Z	-2.037	2
51	MP3C	Mx	-.000882	2
52	MP3C	X	0	4
53	MP3C	Z	-2.037	4
54	MP3C	Mx	-.000882	4
55	M59	X	0	1.5
56	M59	Z	-8.097	1.5
57	M59	Mx	0	1.5
58	MP1A	X	0	1
59	MP1A	Z	-3.091	1
60	MP1A	Mx	-.002	1
61	MP1B	X	0	1
62	MP1B	Z	-2.328	1
63	MP1B	Mx	-.000426	1
64	MP1C	X	0	1
65	MP1C	Z	-2.328	1
66	MP1C	Mx	.002	1
67	MP1A	X	0	1
68	MP1A	Z	-3.73	1
69	MP1A	Mx	.002	1
70	MP1B	X	0	1
71	MP1B	Z	-2.84	1
72	MP1B	Mx	-.002	1
73	MP1C	X	0	1
74	MP1C	Z	-2.84	1
75	MP1C	Mx	.00052	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	2.356	1
2	MP1A	Z	-4.08	1
3	MP1A	Mx	-.004	1
4	MP1A	X	2.356	5
5	MP1A	Z	-4.08	5
6	MP1A	Mx	-.004	5
7	MP1B	X	1.182	1
8	MP1B	Z	-2.047	1
9	MP1B	Mx	.001	1
10	MP1B	X	1.182	5
11	MP1B	Z	-2.047	5
12	MP1B	Mx	.001	5
13	MP1C	X	2.356	1
14	MP1C	Z	-4.08	1
15	MP1C	Mx	.001	1
16	MP1C	X	2.356	5
17	MP1C	Z	-4.08	5
18	MP1C	Mx	.001	5
19	MP1A	X	2.356	1
20	MP1A	Z	-4.08	1
21	MP1A	Mx	.001	1
22	MP1A	X	2.356	5
23	MP1A	Z	-4.08	5
24	MP1A	Mx	.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP1B	X	1.182	1
26	MP1B	Z	-2.047	1
27	MP1B	Mx	.001	1
28	MP1B	X	1.182	5
29	MP1B	Z	-2.047	5
30	MP1B	Mx	.001	5
31	MP1C	X	2.356	1
32	MP1C	Z	-4.08	1
33	MP1C	Mx	-.004	1
34	MP1C	X	2.356	5
35	MP1C	Z	-4.08	5
36	MP1C	Mx	-.004	5
37	MP3A	X	1.599	2
38	MP3A	Z	-2.77	2
39	MP3A	Mx	-.0008	2
40	MP3A	X	1.599	4
41	MP3A	Z	-2.77	4
42	MP3A	Mx	-.0008	4
43	MP3B	X	.728	2
44	MP3B	Z	-1.261	2
45	MP3B	Mx	.000728	2
46	MP3B	X	.728	4
47	MP3B	Z	-1.261	4
48	MP3B	Mx	.000728	4
49	MP3C	X	1.599	2
50	MP3C	Z	-2.77	2
51	MP3C	Mx	-.0008	2
52	MP3C	X	1.599	4
53	MP3C	Z	-2.77	4
54	MP3C	Mx	-.0008	4
55	M59	X	3.809	1.5
56	M59	Z	-6.597	1.5
57	M59	Mx	0	1.5
58	MP1A	X	1.419	1
59	MP1A	Z	-2.457	1
60	MP1A	Mx	-.000519	1
61	MP1B	X	1.037	1
62	MP1B	Z	-1.796	1
63	MP1B	Mx	-.001	1
64	MP1C	X	1.419	1
65	MP1C	Z	-2.457	1
66	MP1C	Mx	.002	1
67	MP1A	X	1.716	1
68	MP1A	Z	-2.973	1
69	MP1A	Mx	.002	1
70	MP1B	X	1.271	1
71	MP1B	Z	-2.202	1
72	MP1B	Mx	-.001	1
73	MP1C	X	1.716	1
74	MP1C	Z	-2.973	1
75	MP1C	Mx	-.000628	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.725	1
2	MP1A	Z	-1.573	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
3	MP1A	Mx	-.002	1
4	MP1A	X	2.725	5
5	MP1A	Z	-1.573	5
6	MP1A	Mx	-.002	5
7	MP1B	X	2.725	1
8	MP1B	Z	-1.573	1
9	MP1B	Mx	.000445	1
10	MP1B	X	2.725	5
11	MP1B	Z	-1.573	5
12	MP1B	Mx	.000445	5
13	MP1C	X	4.758	1
14	MP1C	Z	-2.747	1
15	MP1C	Mx	.003	1
16	MP1C	X	4.758	5
17	MP1C	Z	-2.747	5
18	MP1C	Mx	.003	5
19	MP1A	X	2.725	1
20	MP1A	Z	-1.573	1
21	MP1A	Mx	-.000445	1
22	MP1A	X	2.725	5
23	MP1A	Z	-1.573	5
24	MP1A	Mx	-.000445	5
25	MP1B	X	2.725	1
26	MP1B	Z	-1.573	1
27	MP1B	Mx	.002	1
28	MP1B	X	2.725	5
29	MP1B	Z	-1.573	5
30	MP1B	Mx	.002	5
31	MP1C	X	4.758	1
32	MP1C	Z	-2.747	1
33	MP1C	Mx	-.003	1
34	MP1C	X	4.758	5
35	MP1C	Z	-2.747	5
36	MP1C	Mx	-.003	5
37	MP3A	X	1.764	2
38	MP3A	Z	-1.018	2
39	MP3A	Mx	-.000882	2
40	MP3A	X	1.764	4
41	MP3A	Z	-1.018	4
42	MP3A	Mx	-.000882	4
43	MP3B	X	1.764	2
44	MP3B	Z	-1.018	2
45	MP3B	Mx	.000882	2
46	MP3B	X	1.764	4
47	MP3B	Z	-1.018	4
48	MP3B	Mx	.000882	4
49	MP3C	X	3.273	2
50	MP3C	Z	-1.89	2
51	MP3C	Mx	0	2
52	MP3C	X	3.273	4
53	MP3C	Z	-1.89	4
54	MP3C	Mx	0	4
55	M59	X	5.766	1.5
56	M59	Z	-3.329	1.5
57	M59	Mx	0	1.5
58	MP1A	X	2.016	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
59	MP1A	Z	-1.164	1
60	MP1A	Mx	.000426	1
61	MP1B	X	2.016	1
62	MP1B	Z	-1.164	1
63	MP1B	Mx	-.002	1
64	MP1C	X	2.677	1
65	MP1C	Z	-1.546	1
66	MP1C	Mx	.002	1
67	MP1A	X	2.459	1
68	MP1A	Z	-1.42	1
69	MP1A	Mx	.002	1
70	MP1B	X	2.459	1
71	MP1B	Z	-1.42	1
72	MP1B	Mx	-.00052	1
73	MP1C	X	3.23	1
74	MP1C	Z	-1.865	1
75	MP1C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	2.363	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.001	1
4	MP1A	X	2.363	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.001	5
7	MP1B	X	4.712	1
8	MP1B	Z	0	1
9	MP1B	Mx	-.001	1
10	MP1B	X	4.712	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.001	5
13	MP1C	X	4.712	1
14	MP1C	Z	0	1
15	MP1C	Mx	.004	1
16	MP1C	X	4.712	5
17	MP1C	Z	0	5
18	MP1C	Mx	.004	5
19	MP1A	X	2.363	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.001	1
22	MP1A	X	2.363	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.001	5
25	MP1B	X	4.712	1
26	MP1B	Z	0	1
27	MP1B	Mx	.004	1
28	MP1B	X	4.712	5
29	MP1B	Z	0	5
30	MP1B	Mx	.004	5
31	MP1C	X	4.712	1
32	MP1C	Z	0	1
33	MP1C	Mx	-.001	1
34	MP1C	X	4.712	5
35	MP1C	Z	0	5
36	MP1C	Mx	-.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
37	MP3A	X	1.456	2
38	MP3A	Z	0	2
39	MP3A	Mx	-.000728	2
40	MP3A	X	1.456	4
41	MP3A	Z	0	4
42	MP3A	Mx	-.000728	4
43	MP3B	X	3.198	2
44	MP3B	Z	0	2
45	MP3B	Mx	.0008	2
46	MP3B	X	3.198	4
47	MP3B	Z	0	4
48	MP3B	Mx	.0008	4
49	MP3C	X	3.198	2
50	MP3C	Z	0	2
51	MP3C	Mx	.0008	2
52	MP3C	X	3.198	4
53	MP3C	Z	0	4
54	MP3C	Mx	.0008	4
55	M59	X	6.178	1.5
56	M59	Z	0	1.5
57	M59	Mx	0	1.5
58	MP1A	X	2.074	1
59	MP1A	Z	0	1
60	MP1A	Mx	.001	1
61	MP1B	X	2.837	1
62	MP1B	Z	0	1
63	MP1B	Mx	-.002	1
64	MP1C	X	2.837	1
65	MP1C	Z	0	1
66	MP1C	Mx	.000519	1
67	MP1A	X	2.543	1
68	MP1A	Z	0	1
69	MP1A	Mx	.001	1
70	MP1B	X	3.433	1
71	MP1B	Z	0	1
72	MP1B	Mx	.000628	1
73	MP1C	X	3.433	1
74	MP1C	Z	0	1
75	MP1C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	2.725	1
2	MP1A	Z	1.573	1
3	MP1A	Mx	-.000445	1
4	MP1A	X	2.725	5
5	MP1A	Z	1.573	5
6	MP1A	Mx	-.000445	5
7	MP1B	X	4.758	1
8	MP1B	Z	2.747	1
9	MP1B	Mx	-.003	1
10	MP1B	X	4.758	5
11	MP1B	Z	2.747	5
12	MP1B	Mx	-.003	5
13	MP1C	X	2.725	1
14	MP1C	Z	1.573	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	.002	1
16	MP1C	X	2.725	5
17	MP1C	Z	1.573	5
18	MP1C	Mx	.002	5
19	MP1A	X	2.725	1
20	MP1A	Z	1.573	1
21	MP1A	Mx	-.002	1
22	MP1A	X	2.725	5
23	MP1A	Z	1.573	5
24	MP1A	Mx	-.002	5
25	MP1B	X	4.758	1
26	MP1B	Z	2.747	1
27	MP1B	Mx	.003	1
28	MP1B	X	4.758	5
29	MP1B	Z	2.747	5
30	MP1B	Mx	.003	5
31	MP1C	X	2.725	1
32	MP1C	Z	1.573	1
33	MP1C	Mx	.000445	1
34	MP1C	X	2.725	5
35	MP1C	Z	1.573	5
36	MP1C	Mx	.000445	5
37	MP3A	X	1.764	2
38	MP3A	Z	1.018	2
39	MP3A	Mx	-.000882	2
40	MP3A	X	1.764	4
41	MP3A	Z	1.018	4
42	MP3A	Mx	-.000882	4
43	MP3B	X	3.273	2
44	MP3B	Z	1.89	2
45	MP3B	Mx	0	2
46	MP3B	X	3.273	4
47	MP3B	Z	1.89	4
48	MP3B	Mx	0	4
49	MP3C	X	1.764	2
50	MP3C	Z	1.018	2
51	MP3C	Mx	.000882	2
52	MP3C	X	1.764	4
53	MP3C	Z	1.018	4
54	MP3C	Mx	.000882	4
55	M59	X	5.766	1.5
56	M59	Z	3.329	1.5
57	M59	Mx	0	1.5
58	MP1A	X	2.016	1
59	MP1A	Z	1.164	1
60	MP1A	Mx	.002	1
61	MP1B	X	2.677	1
62	MP1B	Z	1.546	1
63	MP1B	Mx	-.002	1
64	MP1C	X	2.016	1
65	MP1C	Z	1.164	1
66	MP1C	Mx	-.000426	1
67	MP1A	X	2.459	1
68	MP1A	Z	1.42	1
69	MP1A	Mx	.00052	1
70	MP1B	X	3.23	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
71	MP1B	Z	1.865	1
72	MP1B	Mx	.002	1
73	MP1C	X	2.459	1
74	MP1C	Z	1.42	1
75	MP1C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	2.356	1
2	MP1A	Z	4.08	1
3	MP1A	Mx	.001	1
4	MP1A	X	2.356	5
5	MP1A	Z	4.08	5
6	MP1A	Mx	.001	5
7	MP1B	X	2.356	1
8	MP1B	Z	4.08	1
9	MP1B	Mx	-.004	1
10	MP1B	X	2.356	5
11	MP1B	Z	4.08	5
12	MP1B	Mx	-.004	5
13	MP1C	X	1.182	1
14	MP1C	Z	2.047	1
15	MP1C	Mx	.001	1
16	MP1C	X	1.182	5
17	MP1C	Z	2.047	5
18	MP1C	Mx	.001	5
19	MP1A	X	2.356	1
20	MP1A	Z	4.08	1
21	MP1A	Mx	-.004	1
22	MP1A	X	2.356	5
23	MP1A	Z	4.08	5
24	MP1A	Mx	-.004	5
25	MP1B	X	2.356	1
26	MP1B	Z	4.08	1
27	MP1B	Mx	.001	1
28	MP1B	X	2.356	5
29	MP1B	Z	4.08	5
30	MP1B	Mx	.001	5
31	MP1C	X	1.182	1
32	MP1C	Z	2.047	1
33	MP1C	Mx	.001	1
34	MP1C	X	1.182	5
35	MP1C	Z	2.047	5
36	MP1C	Mx	.001	5
37	MP3A	X	1.599	2
38	MP3A	Z	2.77	2
39	MP3A	Mx	-.0008	2
40	MP3A	X	1.599	4
41	MP3A	Z	2.77	4
42	MP3A	Mx	-.0008	4
43	MP3B	X	1.599	2
44	MP3B	Z	2.77	2
45	MP3B	Mx	-.0008	2
46	MP3B	X	1.599	4
47	MP3B	Z	2.77	4
48	MP3B	Mx	-.0008	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP3C	X	.728	2
50	MP3C	Z	1.261	2
51	MP3C	Mx	.000728	2
52	MP3C	X	.728	4
53	MP3C	Z	1.261	4
54	MP3C	Mx	.000728	4
55	M59	X	3.809	1.5
56	M59	Z	6.597	1.5
57	M59	Mx	0	1.5
58	MP1A	X	1.419	1
59	MP1A	Z	2.457	1
60	MP1A	Mx	.002	1
61	MP1B	X	1.419	1
62	MP1B	Z	2.457	1
63	MP1B	Mx	-.00052	1
64	MP1C	X	1.037	1
65	MP1C	Z	1.796	1
66	MP1C	Mx	-.001	1
67	MP1A	X	1.716	1
68	MP1A	Z	2.973	1
69	MP1A	Mx	-.000629	1
70	MP1B	X	1.716	1
71	MP1B	Z	2.973	1
72	MP1B	Mx	.002	1
73	MP1C	X	1.271	1
74	MP1C	Z	2.202	1
75	MP1C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	5.495	1
3	MP1A	Mx	.003	1
4	MP1A	X	0	5
5	MP1A	Z	5.495	5
6	MP1A	Mx	.003	5
7	MP1B	X	0	1
8	MP1B	Z	3.146	1
9	MP1B	Mx	-.002	1
10	MP1B	X	0	5
11	MP1B	Z	3.146	5
12	MP1B	Mx	-.002	5
13	MP1C	X	0	1
14	MP1C	Z	3.146	1
15	MP1C	Mx	.000445	1
16	MP1C	X	0	5
17	MP1C	Z	3.146	5
18	MP1C	Mx	.000445	5
19	MP1A	X	0	1
20	MP1A	Z	5.495	1
21	MP1A	Mx	-.003	1
22	MP1A	X	0	5
23	MP1A	Z	5.495	5
24	MP1A	Mx	-.003	5
25	MP1B	X	0	1
26	MP1B	Z	3.146	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft. %]
27	MP1B	Mx	-.000445	1
28	MP1B	X	0	5
29	MP1B	Z	3.146	5
30	MP1B	Mx	-.000445	5
31	MP1C	X	0	1
32	MP1C	Z	3.146	1
33	MP1C	Mx	.002	1
34	MP1C	X	0	5
35	MP1C	Z	3.146	5
36	MP1C	Mx	.002	5
37	MP3A	X	0	2
38	MP3A	Z	3.779	2
39	MP3A	Mx	0	2
40	MP3A	X	0	4
41	MP3A	Z	3.779	4
42	MP3A	Mx	0	4
43	MP3B	X	0	2
44	MP3B	Z	2.037	2
45	MP3B	Mx	-.000882	2
46	MP3B	X	0	4
47	MP3B	Z	2.037	4
48	MP3B	Mx	-.000882	4
49	MP3C	X	0	2
50	MP3C	Z	2.037	2
51	MP3C	Mx	.000882	2
52	MP3C	X	0	4
53	MP3C	Z	2.037	4
54	MP3C	Mx	.000882	4
55	M59	X	0	1.5
56	M59	Z	8.097	1.5
57	M59	Mx	0	1.5
58	MP1A	X	0	1
59	MP1A	Z	3.091	1
60	MP1A	Mx	.002	1
61	MP1B	X	0	1
62	MP1B	Z	2.328	1
63	MP1B	Mx	.000426	1
64	MP1C	X	0	1
65	MP1C	Z	2.328	1
66	MP1C	Mx	-.002	1
67	MP1A	X	0	1
68	MP1A	Z	3.73	1
69	MP1A	Mx	-.002	1
70	MP1B	X	0	1
71	MP1B	Z	2.84	1
72	MP1B	Mx	.002	1
73	MP1C	X	0	1
74	MP1C	Z	2.84	1
75	MP1C	Mx	-.00052	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft. %]
1	MP1A	X	-2.356	1
2	MP1A	Z	4.08	1
3	MP1A	Mx	.004	1
4	MP1A	X	-2.356	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	4.08	5
6	MP1A	Mx	.004	5
7	MP1B	X	-1.182	1
8	MP1B	Z	2.047	1
9	MP1B	Mx	-.001	1
10	MP1B	X	-1.182	5
11	MP1B	Z	2.047	5
12	MP1B	Mx	-.001	5
13	MP1C	X	-2.356	1
14	MP1C	Z	4.08	1
15	MP1C	Mx	-.001	1
16	MP1C	X	-2.356	5
17	MP1C	Z	4.08	5
18	MP1C	Mx	-.001	5
19	MP1A	X	-2.356	1
20	MP1A	Z	4.08	1
21	MP1A	Mx	-.001	1
22	MP1A	X	-2.356	5
23	MP1A	Z	4.08	5
24	MP1A	Mx	-.001	5
25	MP1B	X	-1.182	1
26	MP1B	Z	2.047	1
27	MP1B	Mx	-.001	1
28	MP1B	X	-1.182	5
29	MP1B	Z	2.047	5
30	MP1B	Mx	-.001	5
31	MP1C	X	-2.356	1
32	MP1C	Z	4.08	1
33	MP1C	Mx	.004	1
34	MP1C	X	-2.356	5
35	MP1C	Z	4.08	5
36	MP1C	Mx	.004	5
37	MP3A	X	-1.599	2
38	MP3A	Z	2.77	2
39	MP3A	Mx	.0008	2
40	MP3A	X	-1.599	4
41	MP3A	Z	2.77	4
42	MP3A	Mx	.0008	4
43	MP3B	X	-.728	2
44	MP3B	Z	1.261	2
45	MP3B	Mx	-.000728	2
46	MP3B	X	-.728	4
47	MP3B	Z	1.261	4
48	MP3B	Mx	-.000728	4
49	MP3C	X	-1.599	2
50	MP3C	Z	2.77	2
51	MP3C	Mx	.0008	2
52	MP3C	X	-1.599	4
53	MP3C	Z	2.77	4
54	MP3C	Mx	.0008	4
55	M59	X	-3.809	1.5
56	M59	Z	6.597	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-1.419	1
59	MP1A	Z	2.457	1
60	MP1A	Mx	.000519	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP1B	X	-1.037	1
62	MP1B	Z	1.796	1
63	MP1B	Mx	.001	1
64	MP1C	X	-1.419	1
65	MP1C	Z	2.457	1
66	MP1C	Mx	-.002	1
67	MP1A	X	-1.716	1
68	MP1A	Z	2.973	1
69	MP1A	Mx	-.002	1
70	MP1B	X	-1.271	1
71	MP1B	Z	2.202	1
72	MP1B	Mx	.001	1
73	MP1C	X	-1.716	1
74	MP1C	Z	2.973	1
75	MP1C	Mx	.000628	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.725	1
2	MP1A	Z	1.573	1
3	MP1A	Mx	.002	1
4	MP1A	X	-2.725	5
5	MP1A	Z	1.573	5
6	MP1A	Mx	.002	5
7	MP1B	X	-2.725	1
8	MP1B	Z	1.573	1
9	MP1B	Mx	-.000445	1
10	MP1B	X	-2.725	5
11	MP1B	Z	1.573	5
12	MP1B	Mx	-.000445	5
13	MP1C	X	-4.758	1
14	MP1C	Z	2.747	1
15	MP1C	Mx	-.003	1
16	MP1C	X	-4.758	5
17	MP1C	Z	2.747	5
18	MP1C	Mx	-.003	5
19	MP1A	X	-2.725	1
20	MP1A	Z	1.573	1
21	MP1A	Mx	.000445	1
22	MP1A	X	-2.725	5
23	MP1A	Z	1.573	5
24	MP1A	Mx	.000445	5
25	MP1B	X	-2.725	1
26	MP1B	Z	1.573	1
27	MP1B	Mx	-.002	1
28	MP1B	X	-2.725	5
29	MP1B	Z	1.573	5
30	MP1B	Mx	-.002	5
31	MP1C	X	-4.758	1
32	MP1C	Z	2.747	1
33	MP1C	Mx	.003	1
34	MP1C	X	-4.758	5
35	MP1C	Z	2.747	5
36	MP1C	Mx	.003	5
37	MP3A	X	-1.764	2
38	MP3A	Z	1.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP3A	Mx	.000882	2
40	MP3A	X	-1.764	4
41	MP3A	Z	1.018	4
42	MP3A	Mx	.000882	4
43	MP3B	X	-1.764	2
44	MP3B	Z	1.018	2
45	MP3B	Mx	-.000882	2
46	MP3B	X	-1.764	4
47	MP3B	Z	1.018	4
48	MP3B	Mx	-.000882	4
49	MP3C	X	-3.273	2
50	MP3C	Z	1.89	2
51	MP3C	Mx	0	2
52	MP3C	X	-3.273	4
53	MP3C	Z	1.89	4
54	MP3C	Mx	0	4
55	M59	X	-5.766	1.5
56	M59	Z	3.329	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-2.016	1
59	MP1A	Z	1.164	1
60	MP1A	Mx	-.000426	1
61	MP1B	X	-2.016	1
62	MP1B	Z	1.164	1
63	MP1B	Mx	.002	1
64	MP1C	X	-2.677	1
65	MP1C	Z	1.546	1
66	MP1C	Mx	-.002	1
67	MP1A	X	-2.459	1
68	MP1A	Z	1.42	1
69	MP1A	Mx	-.002	1
70	MP1B	X	-2.459	1
71	MP1B	Z	1.42	1
72	MP1B	Mx	.00052	1
73	MP1C	X	-3.23	1
74	MP1C	Z	1.865	1
75	MP1C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.363	1
2	MP1A	Z	0	1
3	MP1A	Mx	.001	1
4	MP1A	X	-2.363	5
5	MP1A	Z	0	5
6	MP1A	Mx	.001	5
7	MP1B	X	-4.712	1
8	MP1B	Z	0	1
9	MP1B	Mx	.001	1
10	MP1B	X	-4.712	5
11	MP1B	Z	0	5
12	MP1B	Mx	.001	5
13	MP1C	X	-4.712	1
14	MP1C	Z	0	1
15	MP1C	Mx	-.004	1
16	MP1C	X	-4.712	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP1C	Z	0	5
18	MP1C	Mx	-.004	5
19	MP1A	X	-2.363	1
20	MP1A	Z	0	1
21	MP1A	Mx	.001	1
22	MP1A	X	-2.363	5
23	MP1A	Z	0	5
24	MP1A	Mx	.001	5
25	MP1B	X	-4.712	1
26	MP1B	Z	0	1
27	MP1B	Mx	-.004	1
28	MP1B	X	-4.712	5
29	MP1B	Z	0	5
30	MP1B	Mx	-.004	5
31	MP1C	X	-4.712	1
32	MP1C	Z	0	1
33	MP1C	Mx	.001	1
34	MP1C	X	-4.712	5
35	MP1C	Z	0	5
36	MP1C	Mx	.001	5
37	MP3A	X	-1.456	2
38	MP3A	Z	0	2
39	MP3A	Mx	.000728	2
40	MP3A	X	-1.456	4
41	MP3A	Z	0	4
42	MP3A	Mx	.000728	4
43	MP3B	X	-3.198	2
44	MP3B	Z	0	2
45	MP3B	Mx	-.0008	2
46	MP3B	X	-3.198	4
47	MP3B	Z	0	4
48	MP3B	Mx	-.0008	4
49	MP3C	X	-3.198	2
50	MP3C	Z	0	2
51	MP3C	Mx	-.0008	2
52	MP3C	X	-3.198	4
53	MP3C	Z	0	4
54	MP3C	Mx	-.0008	4
55	M59	X	-6.178	1.5
56	M59	Z	0	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-2.074	1
59	MP1A	Z	0	1
60	MP1A	Mx	-.001	1
61	MP1B	X	-2.837	1
62	MP1B	Z	0	1
63	MP1B	Mx	.002	1
64	MP1C	X	-2.837	1
65	MP1C	Z	0	1
66	MP1C	Mx	-.000519	1
67	MP1A	X	-2.543	1
68	MP1A	Z	0	1
69	MP1A	Mx	-.001	1
70	MP1B	X	-3.433	1
71	MP1B	Z	0	1
72	MP1B	Mx	-.000628	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
73	MP1C	X	-3.433	1
74	MP1C	Z	0	1
75	MP1C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-2.725	1
2	MP1A	Z	-1.573	1
3	MP1A	Mx	.000445	1
4	MP1A	X	-2.725	5
5	MP1A	Z	-1.573	5
6	MP1A	Mx	.000445	5
7	MP1B	X	-4.758	1
8	MP1B	Z	-2.747	1
9	MP1B	Mx	.003	1
10	MP1B	X	-4.758	5
11	MP1B	Z	-2.747	5
12	MP1B	Mx	.003	5
13	MP1C	X	-2.725	1
14	MP1C	Z	-1.573	1
15	MP1C	Mx	-.002	1
16	MP1C	X	-2.725	5
17	MP1C	Z	-1.573	5
18	MP1C	Mx	-.002	5
19	MP1A	X	-2.725	1
20	MP1A	Z	-1.573	1
21	MP1A	Mx	.002	1
22	MP1A	X	-2.725	5
23	MP1A	Z	-1.573	5
24	MP1A	Mx	.002	5
25	MP1B	X	-4.758	1
26	MP1B	Z	-2.747	1
27	MP1B	Mx	-.003	1
28	MP1B	X	-4.758	5
29	MP1B	Z	-2.747	5
30	MP1B	Mx	-.003	5
31	MP1C	X	-2.725	1
32	MP1C	Z	-1.573	1
33	MP1C	Mx	-.000445	1
34	MP1C	X	-2.725	5
35	MP1C	Z	-1.573	5
36	MP1C	Mx	-.000445	5
37	MP3A	X	-1.764	2
38	MP3A	Z	-1.018	2
39	MP3A	Mx	.000882	2
40	MP3A	X	-1.764	4
41	MP3A	Z	-1.018	4
42	MP3A	Mx	.000882	4
43	MP3B	X	-3.273	2
44	MP3B	Z	-1.89	2
45	MP3B	Mx	0	2
46	MP3B	X	-3.273	4
47	MP3B	Z	-1.89	4
48	MP3B	Mx	0	4
49	MP3C	X	-1.764	2
50	MP3C	Z	-1.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
51	MP3C	Mx	-0.00882	2
52	MP3C	X	-1.764	4
53	MP3C	Z	-1.018	4
54	MP3C	Mx	-0.00882	4
55	M59	X	-5.766	1.5
56	M59	Z	-3.329	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-2.016	1
59	MP1A	Z	-1.164	1
60	MP1A	Mx	-.002	1
61	MP1B	X	-2.677	1
62	MP1B	Z	-1.546	1
63	MP1B	Mx	.002	1
64	MP1C	X	-2.016	1
65	MP1C	Z	-1.164	1
66	MP1C	Mx	.000426	1
67	MP1A	X	-2.459	1
68	MP1A	Z	-1.42	1
69	MP1A	Mx	-.00052	1
70	MP1B	X	-3.23	1
71	MP1B	Z	-1.865	1
72	MP1B	Mx	-.002	1
73	MP1C	X	-2.459	1
74	MP1C	Z	-1.42	1
75	MP1C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-2.356	1
2	MP1A	Z	-4.08	1
3	MP1A	Mx	-.001	1
4	MP1A	X	-2.356	5
5	MP1A	Z	-4.08	5
6	MP1A	Mx	-.001	5
7	MP1B	X	-2.356	1
8	MP1B	Z	-4.08	1
9	MP1B	Mx	.004	1
10	MP1B	X	-2.356	5
11	MP1B	Z	-4.08	5
12	MP1B	Mx	.004	5
13	MP1C	X	-1.182	1
14	MP1C	Z	-2.047	1
15	MP1C	Mx	-.001	1
16	MP1C	X	-1.182	5
17	MP1C	Z	-2.047	5
18	MP1C	Mx	-.001	5
19	MP1A	X	-2.356	1
20	MP1A	Z	-4.08	1
21	MP1A	Mx	.004	1
22	MP1A	X	-2.356	5
23	MP1A	Z	-4.08	5
24	MP1A	Mx	.004	5
25	MP1B	X	-2.356	1
26	MP1B	Z	-4.08	1
27	MP1B	Mx	-.001	1
28	MP1B	X	-2.356	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1B	Z	-4.08	5
30	MP1B	Mx	-.001	5
31	MP1C	X	-1.182	1
32	MP1C	Z	-2.047	1
33	MP1C	Mx	-.001	1
34	MP1C	X	-1.182	5
35	MP1C	Z	-2.047	5
36	MP1C	Mx	-.001	5
37	MP3A	X	-1.599	2
38	MP3A	Z	-2.77	2
39	MP3A	Mx	.0008	2
40	MP3A	X	-1.599	4
41	MP3A	Z	-2.77	4
42	MP3A	Mx	.0008	4
43	MP3B	X	-1.599	2
44	MP3B	Z	-2.77	2
45	MP3B	Mx	.0008	2
46	MP3B	X	-1.599	4
47	MP3B	Z	-2.77	4
48	MP3B	Mx	.0008	4
49	MP3C	X	-.728	2
50	MP3C	Z	-1.261	2
51	MP3C	Mx	-.000728	2
52	MP3C	X	-.728	4
53	MP3C	Z	-1.261	4
54	MP3C	Mx	-.000728	4
55	M59	X	-3.809	1.5
56	M59	Z	-6.597	1.5
57	M59	Mx	0	1.5
58	MP1A	X	-1.419	1
59	MP1A	Z	-2.457	1
60	MP1A	Mx	-.002	1
61	MP1B	X	-1.419	1
62	MP1B	Z	-2.457	1
63	MP1B	Mx	.00052	1
64	MP1C	X	-1.037	1
65	MP1C	Z	-1.796	1
66	MP1C	Mx	.001	1
67	MP1A	X	-1.716	1
68	MP1A	Z	-2.973	1
69	MP1A	Mx	.000629	1
70	MP1B	X	-1.716	1
71	MP1B	Z	-2.973	1
72	MP1B	Mx	-.002	1
73	MP1C	X	-1.271	1
74	MP1C	Z	-2.202	1
75	MP1C	Mx	.001	1

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 78 : Lm2)

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

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	LV1	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	LV2	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	Y	-.769	1
2	MP1A	My	-.000385	1
3	MP1A	Mz	.000449	1
4	MP1A	Y	-.769	5
5	MP1A	My	-.000385	5
6	MP1A	Mz	.000449	5
7	MP1B	Y	-.769	1
8	MP1B	My	-.000196	1
9	MP1B	Mz	-.000557	1
10	MP1B	Y	-.769	5
11	MP1B	My	-.000196	5
12	MP1B	Mz	-.000557	5
13	MP1C	Y	-.769	1
14	MP1C	My	.000581	1
15	MP1C	Mz	.000109	1
16	MP1C	Y	-.769	5
17	MP1C	My	.000581	5
18	MP1C	Mz	.000109	5
19	MP1A	Y	-.769	1
20	MP1A	My	-.000385	1
21	MP1A	Mz	-.000449	1
22	MP1A	Y	-.769	5
23	MP1A	My	-.000385	5
24	MP1A	Mz	-.000449	5
25	MP1B	Y	-.769	1
26	MP1B	My	.000581	1
27	MP1B	Mz	-.000109	1
28	MP1B	Y	-.769	5
29	MP1B	My	.000581	5
30	MP1B	Mz	-.000109	5
31	MP1C	Y	-.769	1
32	MP1C	My	-.000196	1
33	MP1C	Mz	.000557	1
34	MP1C	Y	-.769	5
35	MP1C	My	-.000196	5
36	MP1C	Mz	.000557	5
37	MP3A	Y	-1.008	2
38	MP3A	My	-.000504	2
39	MP3A	Mz	0	2
40	MP3A	Y	-1.008	4
41	MP3A	My	-.000504	4
42	MP3A	Mz	0	4
43	MP3B	Y	-1.008	2
44	MP3B	My	.000252	2
45	MP3B	Mz	-.000437	2
46	MP3B	Y	-1.008	4
47	MP3B	My	.000252	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP3B	Mz	-.000437	4
49	MP3C	Y	-1.008	2
50	MP3C	My	.000252	2
51	MP3C	Mz	.000437	2
52	MP3C	Y	-1.008	4
53	MP3C	My	.000252	4
54	MP3C	Mz	.000437	4
55	M59	Y	-1.126	1.5
56	M59	My	0	1.5
57	M59	Mz	0	1.5
58	MP1A	Y	-2.629	1
59	MP1A	My	.001	1
60	MP1A	Mz	.001	1
61	MP1B	Y	-2.629	1
62	MP1B	My	-.002	1
63	MP1B	Mz	.000481	1
64	MP1C	Y	-2.629	1
65	MP1C	My	.000481	1
66	MP1C	Mz	-.002	1
67	MP1A	Y	-2.784	1
68	MP1A	My	.001	1
69	MP1A	Mz	-.001	1
70	MP1B	Y	-2.784	1
71	MP1B	My	.00051	1
72	MP1B	Mz	.002	1
73	MP1C	Y	-2.784	1
74	MP1C	My	-.002	1
75	MP1C	Mz	-.00051	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-1.923	1
2	MP1A	Mx	-.001	1
3	MP1A	Z	-1.923	5
4	MP1A	Mx	-.001	5
5	MP1B	Z	-1.923	1
6	MP1B	Mx	.001	1
7	MP1B	Z	-1.923	5
8	MP1B	Mx	.001	5
9	MP1C	Z	-1.923	1
10	MP1C	Mx	-.000272	1
11	MP1C	Z	-1.923	5
12	MP1C	Mx	-.000272	5
13	MP1A	Z	-1.923	1
14	MP1A	Mx	.001	1
15	MP1A	Z	-1.923	5
16	MP1A	Mx	.001	5
17	MP1B	Z	-1.923	1
18	MP1B	Mx	.000272	1
19	MP1B	Z	-1.923	5
20	MP1B	Mx	.000272	5
21	MP1C	Z	-1.923	1
22	MP1C	Mx	-.001	1
23	MP1C	Z	-1.923	5
24	MP1C	Mx	-.001	5
25	MP3A	Z	-2.521	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
26	MP3A	Mx	0	2
27	MP3A	Z	-2.521	4
28	MP3A	Mx	0	4
29	MP3B	Z	-2.521	2
30	MP3B	Mx	.001	2
31	MP3B	Z	-2.521	4
32	MP3B	Mx	.001	4
33	MP3C	Z	-2.521	2
34	MP3C	Mx	-.001	2
35	MP3C	Z	-2.521	4
36	MP3C	Mx	-.001	4
37	M59	Z	-2.816	1.5
38	M59	Mx	0	1.5
39	MP1A	Z	-6.574	1
40	MP1A	Mx	-.003	1
41	MP1B	Z	-6.574	1
42	MP1B	Mx	-.001	1
43	MP1C	Z	-6.574	1
44	MP1C	Mx	.004	1
45	MP1A	Z	-6.961	1
46	MP1A	Mx	.003	1
47	MP1B	Z	-6.961	1
48	MP1B	Mx	-.005	1
49	MP1C	Z	-6.961	1
50	MP1C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	1.923	1
2	MP1A	Mx	-.000961	1
3	MP1A	X	1.923	5
4	MP1A	Mx	-.000961	5
5	MP1B	X	1.923	1
6	MP1B	Mx	-.000491	1
7	MP1B	X	1.923	5
8	MP1B	Mx	-.000491	5
9	MP1C	X	1.923	1
10	MP1C	Mx	.001	1
11	MP1C	X	1.923	5
12	MP1C	Mx	.001	5
13	MP1A	X	1.923	1
14	MP1A	Mx	-.000961	1
15	MP1A	X	1.923	5
16	MP1A	Mx	-.000961	5
17	MP1B	X	1.923	1
18	MP1B	Mx	.001	1
19	MP1B	X	1.923	5
20	MP1B	Mx	.001	5
21	MP1C	X	1.923	1
22	MP1C	Mx	-.000491	1
23	MP1C	X	1.923	5
24	MP1C	Mx	-.000491	5
25	MP3A	X	2.521	2
26	MP3A	Mx	-.001	2
27	MP3A	X	2.521	4
28	MP3A	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP3B	X	2.521	2
30	MP3B	Mx	.00063	2
31	MP3B	X	2.521	4
32	MP3B	Mx	.00063	4
33	MP3C	X	2.521	2
34	MP3C	Mx	.00063	2
35	MP3C	X	2.521	4
36	MP3C	Mx	.00063	4
37	M59	X	2.816	1.5
38	M59	Mx	0	1.5
39	MP1A	X	6.574	1
40	MP1A	Mx	.003	1
41	MP1B	X	6.574	1
42	MP1B	Mx	-.004	1
43	MP1C	X	6.574	1
44	MP1C	Mx	.001	1
45	MP1A	X	6.961	1
46	MP1A	Mx	.003	1
47	MP1B	X	6.961	1
48	MP1B	Mx	.001	1
49	MP1C	X	6.961	1
50	MP1C	Mx	-.005	1

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	M1	Y	-7.524	-7.524	0	% 100
2	M4	Y	-10.044	-10.044	0	% 100
3	M8	Y	-7.524	-7.524	0	% 100
4	M11	Y	-7.524	-7.524	0	% 100
5	M12	Y	-10.044	-10.044	0	% 100
6	M13	Y	-7.524	-7.524	0	% 100
7	M21A	Y	-7.524	-7.524	0	% 100
8	M22	Y	-10.044	-10.044	0	% 100
9	M23	Y	-7.524	-7.524	0	% 100
10	LV1	Y	-6.486	-6.486	0	% 100
11	LV2	Y	-6.486	-6.486	0	% 100
12	M33	Y	-6.486	-6.486	0	% 100
13	M22A	Y	-6.486	-6.486	0	% 100
14	M23A	Y	-6.486	-6.486	0	% 100
15	M24	Y	-6.486	-6.486	0	% 100
16	M25	Y	-6.486	-6.486	0	% 100
17	M26A	Y	-6.486	-6.486	0	% 100
18	M27A	Y	-6.486	-6.486	0	% 100
19	M28A	Y	-5.67	-5.67	0	% 100
20	M29	Y	-5.67	-5.67	0	% 100
21	M30	Y	-5.67	-5.67	0	% 100
22	M31A	Y	-5.67	-5.67	0	% 100
23	M32A	Y	-5.67	-5.67	0	% 100
24	M33A	Y	-5.67	-5.67	0	% 100
25	MP1A	Y	-4.915	-4.915	0	% 100
26	MP2A	Y	-4.915	-4.915	0	% 100
27	MP3A	Y	-4.915	-4.915	0	% 100
28	MP4A	Y	-4.915	-4.915	0	% 100
29	MP1C	Y	-4.915	-4.915	0	% 100
30	MP2C	Y	-4.915	-4.915	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	MP3C	Y	-4.915	-4.915	0	%100
32	MP4C	Y	-4.915	-4.915	0	%100
33	MP1B	Y	-4.915	-4.915	0	%100
34	MP2B	Y	-4.915	-4.915	0	%100
35	MP3B	Y	-4.915	-4.915	0	%100
36	MP4B	Y	-4.915	-4.915	0	%100
37	M59	Y	-4.915	-4.915	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-17.584	-17.584	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	-6.441	-6.441	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	-4.396	-4.396	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	-5.622	-5.622	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	-6.441	-6.441	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-4.396	-4.396	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	-5.622	-5.622	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	-8.521	-8.521	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	-8.439	-8.439	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	-8.521	-8.521	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	-2.13	-2.13	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	-2.11	-2.11	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	-2.13	-2.13	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	-2.13	-2.13	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	-2.11	-2.11	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	-2.13	-2.13	0	%100
37	M28A	X	0	0	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	0	0	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	-4.453	-4.453	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	-4.453	-4.453	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	-4.453	-4.453	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,%]
47	M33A	X	0	0	0	% 100
48	M33A	Z	-4.453	-4.453	0	% 100
49	MP1A	X	0	0	0	% 100
50	MP1A	Z	-6.96	-6.96	0	% 100
51	MP2A	X	0	0	0	% 100
52	MP2A	Z	-6.96	-6.96	0	% 100
53	MP3A	X	0	0	0	% 100
54	MP3A	Z	-6.96	-6.96	0	% 100
55	MP4A	X	0	0	0	% 100
56	MP4A	Z	-6.96	-6.96	0	% 100
57	MP1C	X	0	0	0	% 100
58	MP1C	Z	-6.96	-6.96	0	% 100
59	MP2C	X	0	0	0	% 100
60	MP2C	Z	-6.96	-6.96	0	% 100
61	MP3C	X	0	0	0	% 100
62	MP3C	Z	-6.96	-6.96	0	% 100
63	MP4C	X	0	0	0	% 100
64	MP4C	Z	-6.96	-6.96	0	% 100
65	MP1B	X	0	0	0	% 100
66	MP1B	Z	-6.96	-6.96	0	% 100
67	MP2B	X	0	0	0	% 100
68	MP2B	Z	-6.96	-6.96	0	% 100
69	MP3B	X	0	0	0	% 100
70	MP3B	Z	-6.96	-6.96	0	% 100
71	MP4B	X	0	0	0	% 100
72	MP4B	Z	-6.96	-6.96	0	% 100
73	M59	X	0	0	0	% 100
74	M59	Z	-5.692	-5.692	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.074	1.074	0	% 100
2	M1	Z	-1.859	-1.859	0	% 100
3	M4	X	6.594	6.594	0	% 100
4	M4	Z	-11.421	-11.421	0	% 100
5	M8	X	.937	.937	0	% 100
6	M8	Z	-1.623	-1.623	0	% 100
7	M11	X	1.074	1.074	0	% 100
8	M11	Z	-1.859	-1.859	0	% 100
9	M12	X	6.594	6.594	0	% 100
10	M12	Z	-11.421	-11.421	0	% 100
11	M13	X	.937	.937	0	% 100
12	M13	Z	-1.623	-1.623	0	% 100
13	M21A	X	4.294	4.294	0	% 100
14	M21A	Z	-7.438	-7.438	0	% 100
15	M22	X	0	0	0	% 100
16	M22	Z	0	0	0	% 100
17	M23	X	3.748	3.748	0	% 100
18	M23	Z	-6.492	-6.492	0	% 100
19	LV1	X	3.195	3.195	0	% 100
20	LV1	Z	-5.534	-5.534	0	% 100
21	LV2	X	3.165	3.165	0	% 100
22	LV2	Z	-5.481	-5.481	0	% 100
23	M33	X	3.195	3.195	0	% 100
24	M33	Z	-5.534	-5.534	0	% 100
25	M22A	X	3.195	3.195	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
26	M22A	Z	-5.534	-5.534	0	%100
27	M23A	X	3.165	3.165	0	%100
28	M23A	Z	-5.481	-5.481	0	%100
29	M24	X	3.195	3.195	0	%100
30	M24	Z	-5.534	-5.534	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	.742	.742	0	%100
38	M28A	Z	-1.285	-1.285	0	%100
39	M29	X	.742	.742	0	%100
40	M29	Z	-1.285	-1.285	0	%100
41	M30	X	.742	.742	0	%100
42	M30	Z	-1.285	-1.285	0	%100
43	M31A	X	.742	.742	0	%100
44	M31A	Z	-1.285	-1.285	0	%100
45	M32A	X	2.969	2.969	0	%100
46	M32A	Z	-5.142	-5.142	0	%100
47	M33A	X	2.969	2.969	0	%100
48	M33A	Z	-5.142	-5.142	0	%100
49	MP1A	X	3.48	3.48	0	%100
50	MP1A	Z	-6.028	-6.028	0	%100
51	MP2A	X	3.48	3.48	0	%100
52	MP2A	Z	-6.028	-6.028	0	%100
53	MP3A	X	3.48	3.48	0	%100
54	MP3A	Z	-6.028	-6.028	0	%100
55	MP4A	X	3.48	3.48	0	%100
56	MP4A	Z	-6.028	-6.028	0	%100
57	MP1C	X	3.48	3.48	0	%100
58	MP1C	Z	-6.028	-6.028	0	%100
59	MP2C	X	3.48	3.48	0	%100
60	MP2C	Z	-6.028	-6.028	0	%100
61	MP3C	X	3.48	3.48	0	%100
62	MP3C	Z	-6.028	-6.028	0	%100
63	MP4C	X	3.48	3.48	0	%100
64	MP4C	Z	-6.028	-6.028	0	%100
65	MP1B	X	3.48	3.48	0	%100
66	MP1B	Z	-6.028	-6.028	0	%100
67	MP2B	X	3.48	3.48	0	%100
68	MP2B	Z	-6.028	-6.028	0	%100
69	MP3B	X	3.48	3.48	0	%100
70	MP3B	Z	-6.028	-6.028	0	%100
71	MP4B	X	3.48	3.48	0	%100
72	MP4B	Z	-6.028	-6.028	0	%100
73	M59	X	2.846	2.846	0	%100
74	M59	Z	-4.929	-4.929	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	M1	X	5.578	5.578	0	%100
2	M1	Z	-3.221	-3.221	0	%100
3	M4	X	3.807	3.807	0	%100
4	M4	Z	-2.198	-2.198	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, %]
5	M8	X	4.869	4.869	0	%100
6	M8	Z	-2.811	-2.811	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	15.228	15.228	0	%100
10	M12	Z	-8.792	-8.792	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	5.578	5.578	0	%100
14	M21A	Z	-3.221	-3.221	0	%100
15	M22	X	3.807	3.807	0	%100
16	M22	Z	-2.198	-2.198	0	%100
17	M23	X	4.869	4.869	0	%100
18	M23	Z	-2.811	-2.811	0	%100
19	LV1	X	1.845	1.845	0	%100
20	LV1	Z	-1.065	-1.065	0	%100
21	LV2	X	1.827	1.827	0	%100
22	LV2	Z	-1.055	-1.055	0	%100
23	M33	X	1.845	1.845	0	%100
24	M33	Z	-1.065	-1.065	0	%100
25	M22A	X	7.379	7.379	0	%100
26	M22A	Z	-4.26	-4.26	0	%100
27	M23A	X	7.309	7.309	0	%100
28	M23A	Z	-4.22	-4.22	0	%100
29	M24	X	7.379	7.379	0	%100
30	M24	Z	-4.26	-4.26	0	%100
31	M25	X	1.845	1.845	0	%100
32	M25	Z	-1.065	-1.065	0	%100
33	M26A	X	1.827	1.827	0	%100
34	M26A	Z	-1.055	-1.055	0	%100
35	M27A	X	1.845	1.845	0	%100
36	M27A	Z	-1.065	-1.065	0	%100
37	M28A	X	3.856	3.856	0	%100
38	M28A	Z	-2.226	-2.226	0	%100
39	M29	X	3.856	3.856	0	%100
40	M29	Z	-2.226	-2.226	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	3.856	3.856	0	%100
46	M32A	Z	-2.226	-2.226	0	%100
47	M33A	X	3.856	3.856	0	%100
48	M33A	Z	-2.226	-2.226	0	%100
49	MP1A	X	6.028	6.028	0	%100
50	MP1A	Z	-3.48	-3.48	0	%100
51	MP2A	X	6.028	6.028	0	%100
52	MP2A	Z	-3.48	-3.48	0	%100
53	MP3A	X	6.028	6.028	0	%100
54	MP3A	Z	-3.48	-3.48	0	%100
55	MP4A	X	6.028	6.028	0	%100
56	MP4A	Z	-3.48	-3.48	0	%100
57	MP1C	X	6.028	6.028	0	%100
58	MP1C	Z	-3.48	-3.48	0	%100
59	MP2C	X	6.028	6.028	0	%100
60	MP2C	Z	-3.48	-3.48	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,%]
61	MP3C	X	6.028	6.028	0	%100
62	MP3C	Z	-3.48	-3.48	0	%100
63	MP4C	X	6.028	6.028	0	%100
64	MP4C	Z	-3.48	-3.48	0	%100
65	MP1B	X	6.028	6.028	0	%100
66	MP1B	Z	-3.48	-3.48	0	%100
67	MP2B	X	6.028	6.028	0	%100
68	MP2B	Z	-3.48	-3.48	0	%100
69	MP3B	X	6.028	6.028	0	%100
70	MP3B	Z	-3.48	-3.48	0	%100
71	MP4B	X	6.028	6.028	0	%100
72	MP4B	Z	-3.48	-3.48	0	%100
73	M59	X	4.929	4.929	0	%100
74	M59	Z	-2.846	-2.846	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	M1	X	8.588	8.588	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M8	X	7.496	7.496	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	2.147	2.147	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	13.188	13.188	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	1.874	1.874	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	2.147	2.147	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	13.188	13.188	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	1.874	1.874	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	0	0	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	0	0	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	0	0	0	%100
25	M22A	X	6.39	6.39	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	6.329	6.329	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	6.39	6.39	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	6.39	6.39	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	6.329	6.329	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	6.39	6.39	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	5.937	5.937	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	5.937	5.937	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
40	M29	Z	0	0	0	% 100
41	M30	X	1.484	1.484	0	% 100
42	M30	Z	0	0	0	% 100
43	M31A	X	1.484	1.484	0	% 100
44	M31A	Z	0	0	0	% 100
45	M32A	X	1.484	1.484	0	% 100
46	M32A	Z	0	0	0	% 100
47	M33A	X	1.484	1.484	0	% 100
48	M33A	Z	0	0	0	% 100
49	MP1A	X	6.96	6.96	0	% 100
50	MP1A	Z	0	0	0	% 100
51	MP2A	X	6.96	6.96	0	% 100
52	MP2A	Z	0	0	0	% 100
53	MP3A	X	6.96	6.96	0	% 100
54	MP3A	Z	0	0	0	% 100
55	MP4A	X	6.96	6.96	0	% 100
56	MP4A	Z	0	0	0	% 100
57	MP1C	X	6.96	6.96	0	% 100
58	MP1C	Z	0	0	0	% 100
59	MP2C	X	6.96	6.96	0	% 100
60	MP2C	Z	0	0	0	% 100
61	MP3C	X	6.96	6.96	0	% 100
62	MP3C	Z	0	0	0	% 100
63	MP4C	X	6.96	6.96	0	% 100
64	MP4C	Z	0	0	0	% 100
65	MP1B	X	6.96	6.96	0	% 100
66	MP1B	Z	0	0	0	% 100
67	MP2B	X	6.96	6.96	0	% 100
68	MP2B	Z	0	0	0	% 100
69	MP3B	X	6.96	6.96	0	% 100
70	MP3B	Z	0	0	0	% 100
71	MP4B	X	6.96	6.96	0	% 100
72	MP4B	Z	0	0	0	% 100
73	M59	X	5.692	5.692	0	% 100
74	M59	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	M1	X	5.578	5.578	0	% 100
2	M1	Z	3.221	3.221	0	% 100
3	M4	X	3.807	3.807	0	% 100
4	M4	Z	2.198	2.198	0	% 100
5	M8	X	4.869	4.869	0	% 100
6	M8	Z	2.811	2.811	0	% 100
7	M11	X	5.578	5.578	0	% 100
8	M11	Z	3.221	3.221	0	% 100
9	M12	X	3.807	3.807	0	% 100
10	M12	Z	2.198	2.198	0	% 100
11	M13	X	4.869	4.869	0	% 100
12	M13	Z	2.811	2.811	0	% 100
13	M21A	X	0	0	0	% 100
14	M21A	Z	0	0	0	% 100
15	M22	X	15.228	15.228	0	% 100
16	M22	Z	8.792	8.792	0	% 100
17	M23	X	0	0	0	% 100
18	M23	Z	0	0	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,%]
19	LV1	X	1.845	1.845	0	%100
20	LV1	Z	1.065	1.065	0	%100
21	LV2	X	1.827	1.827	0	%100
22	LV2	Z	1.055	1.055	0	%100
23	M33	X	1.845	1.845	0	%100
24	M33	Z	1.065	1.065	0	%100
25	M22A	X	1.845	1.845	0	%100
26	M22A	Z	1.065	1.065	0	%100
27	M23A	X	1.827	1.827	0	%100
28	M23A	Z	1.055	1.055	0	%100
29	M24	X	1.845	1.845	0	%100
30	M24	Z	1.065	1.065	0	%100
31	M25	X	7.379	7.379	0	%100
32	M25	Z	4.26	4.26	0	%100
33	M26A	X	7.309	7.309	0	%100
34	M26A	Z	4.22	4.22	0	%100
35	M27A	X	7.379	7.379	0	%100
36	M27A	Z	4.26	4.26	0	%100
37	M28A	X	3.856	3.856	0	%100
38	M28A	Z	2.226	2.226	0	%100
39	M29	X	3.856	3.856	0	%100
40	M29	Z	2.226	2.226	0	%100
41	M30	X	3.856	3.856	0	%100
42	M30	Z	2.226	2.226	0	%100
43	M31A	X	3.856	3.856	0	%100
44	M31A	Z	2.226	2.226	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	6.028	6.028	0	%100
50	MP1A	Z	3.48	3.48	0	%100
51	MP2A	X	6.028	6.028	0	%100
52	MP2A	Z	3.48	3.48	0	%100
53	MP3A	X	6.028	6.028	0	%100
54	MP3A	Z	3.48	3.48	0	%100
55	MP4A	X	6.028	6.028	0	%100
56	MP4A	Z	3.48	3.48	0	%100
57	MP1C	X	6.028	6.028	0	%100
58	MP1C	Z	3.48	3.48	0	%100
59	MP2C	X	6.028	6.028	0	%100
60	MP2C	Z	3.48	3.48	0	%100
61	MP3C	X	6.028	6.028	0	%100
62	MP3C	Z	3.48	3.48	0	%100
63	MP4C	X	6.028	6.028	0	%100
64	MP4C	Z	3.48	3.48	0	%100
65	MP1B	X	6.028	6.028	0	%100
66	MP1B	Z	3.48	3.48	0	%100
67	MP2B	X	6.028	6.028	0	%100
68	MP2B	Z	3.48	3.48	0	%100
69	MP3B	X	6.028	6.028	0	%100
70	MP3B	Z	3.48	3.48	0	%100
71	MP4B	X	6.028	6.028	0	%100
72	MP4B	Z	3.48	3.48	0	%100
73	M59	X	4.929	4.929	0	%100
74	M59	Z	2.846	2.846	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	M1	X	1.074	1.074	0	%100
2	M1	Z	1.859	1.859	0	%100
3	M4	X	6.594	6.594	0	%100
4	M4	Z	11.421	11.421	0	%100
5	M8	X	.937	.937	0	%100
6	M8	Z	1.623	1.623	0	%100
7	M11	X	4.294	4.294	0	%100
8	M11	Z	7.438	7.438	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	3.748	3.748	0	%100
12	M13	Z	6.492	6.492	0	%100
13	M21A	X	1.074	1.074	0	%100
14	M21A	Z	1.859	1.859	0	%100
15	M22	X	6.594	6.594	0	%100
16	M22	Z	11.421	11.421	0	%100
17	M23	X	.937	.937	0	%100
18	M23	Z	1.623	1.623	0	%100
19	LV1	X	3.195	3.195	0	%100
20	LV1	Z	5.534	5.534	0	%100
21	LV2	X	3.165	3.165	0	%100
22	LV2	Z	5.481	5.481	0	%100
23	M33	X	3.195	3.195	0	%100
24	M33	Z	5.534	5.534	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	3.195	3.195	0	%100
32	M25	Z	5.534	5.534	0	%100
33	M26A	X	3.165	3.165	0	%100
34	M26A	Z	5.481	5.481	0	%100
35	M27A	X	3.195	3.195	0	%100
36	M27A	Z	5.534	5.534	0	%100
37	M28A	X	.742	.742	0	%100
38	M28A	Z	1.285	1.285	0	%100
39	M29	X	.742	.742	0	%100
40	M29	Z	1.285	1.285	0	%100
41	M30	X	2.969	2.969	0	%100
42	M30	Z	5.142	5.142	0	%100
43	M31A	X	2.969	2.969	0	%100
44	M31A	Z	5.142	5.142	0	%100
45	M32A	X	.742	.742	0	%100
46	M32A	Z	1.285	1.285	0	%100
47	M33A	X	.742	.742	0	%100
48	M33A	Z	1.285	1.285	0	%100
49	MP1A	X	3.48	3.48	0	%100
50	MP1A	Z	6.028	6.028	0	%100
51	MP2A	X	3.48	3.48	0	%100
52	MP2A	Z	6.028	6.028	0	%100
53	MP3A	X	3.48	3.48	0	%100
54	MP3A	Z	6.028	6.028	0	%100
55	MP4A	X	3.48	3.48	0	%100
56	MP4A	Z	6.028	6.028	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
57	MP1C	X	3.48	3.48	0	%100
58	MP1C	Z	6.028	6.028	0	%100
59	MP2C	X	3.48	3.48	0	%100
60	MP2C	Z	6.028	6.028	0	%100
61	MP3C	X	3.48	3.48	0	%100
62	MP3C	Z	6.028	6.028	0	%100
63	MP4C	X	3.48	3.48	0	%100
64	MP4C	Z	6.028	6.028	0	%100
65	MP1B	X	3.48	3.48	0	%100
66	MP1B	Z	6.028	6.028	0	%100
67	MP2B	X	3.48	3.48	0	%100
68	MP2B	Z	6.028	6.028	0	%100
69	MP3B	X	3.48	3.48	0	%100
70	MP3B	Z	6.028	6.028	0	%100
71	MP4B	X	3.48	3.48	0	%100
72	MP4B	Z	6.028	6.028	0	%100
73	M59	X	2.846	2.846	0	%100
74	M59	Z	4.929	4.929	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	17.584	17.584	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	6.441	6.441	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	4.396	4.396	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	5.622	5.622	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	6.441	6.441	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	4.396	4.396	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	5.622	5.622	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	8.521	8.521	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	8.439	8.439	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	8.521	8.521	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	2.13	2.13	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	2.11	2.11	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	2.13	2.13	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	2.13	2.13	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	2.11	2.11	0	%100
35	M27A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
36	M27A	Z	2.13	2.13	0	%100
37	M28A	X	0	0	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	0	0	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	4.453	4.453	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	4.453	4.453	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	4.453	4.453	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	4.453	4.453	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	6.96	6.96	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	6.96	6.96	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	6.96	6.96	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	6.96	6.96	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	6.96	6.96	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	6.96	6.96	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	6.96	6.96	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	6.96	6.96	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	6.96	6.96	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	6.96	6.96	0	%100
69	MP3B	X	0	0	0	%100
70	MP3B	Z	6.96	6.96	0	%100
71	MP4B	X	0	0	0	%100
72	MP4B	Z	6.96	6.96	0	%100
73	M59	X	0	0	0	%100
74	M59	Z	5.692	5.692	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	M1	X	-1.074	-1.074	0	%100
2	M1	Z	1.859	1.859	0	%100
3	M4	X	-6.594	-6.594	0	%100
4	M4	Z	11.421	11.421	0	%100
5	M8	X	-.937	-.937	0	%100
6	M8	Z	1.623	1.623	0	%100
7	M11	X	-1.074	-1.074	0	%100
8	M11	Z	1.859	1.859	0	%100
9	M12	X	-6.594	-6.594	0	%100
10	M12	Z	11.421	11.421	0	%100
11	M13	X	-.937	-.937	0	%100
12	M13	Z	1.623	1.623	0	%100
13	M21A	X	-4.294	-4.294	0	%100
14	M21A	Z	7.438	7.438	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,%]
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-3.748	-3.748	0	%100
18	M23	Z	6.492	6.492	0	%100
19	LV1	X	-3.195	-3.195	0	%100
20	LV1	Z	5.534	5.534	0	%100
21	LV2	X	-3.165	-3.165	0	%100
22	LV2	Z	5.481	5.481	0	%100
23	M33	X	-3.195	-3.195	0	%100
24	M33	Z	5.534	5.534	0	%100
25	M22A	X	-3.195	-3.195	0	%100
26	M22A	Z	5.534	5.534	0	%100
27	M23A	X	-3.165	-3.165	0	%100
28	M23A	Z	5.481	5.481	0	%100
29	M24	X	-3.195	-3.195	0	%100
30	M24	Z	5.534	5.534	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	-.742	-.742	0	%100
38	M28A	Z	1.285	1.285	0	%100
39	M29	X	-.742	-.742	0	%100
40	M29	Z	1.285	1.285	0	%100
41	M30	X	-.742	-.742	0	%100
42	M30	Z	1.285	1.285	0	%100
43	M31A	X	-.742	-.742	0	%100
44	M31A	Z	1.285	1.285	0	%100
45	M32A	X	-2.969	-2.969	0	%100
46	M32A	Z	5.142	5.142	0	%100
47	M33A	X	-2.969	-2.969	0	%100
48	M33A	Z	5.142	5.142	0	%100
49	MP1A	X	-3.48	-3.48	0	%100
50	MP1A	Z	6.028	6.028	0	%100
51	MP2A	X	-3.48	-3.48	0	%100
52	MP2A	Z	6.028	6.028	0	%100
53	MP3A	X	-3.48	-3.48	0	%100
54	MP3A	Z	6.028	6.028	0	%100
55	MP4A	X	-3.48	-3.48	0	%100
56	MP4A	Z	6.028	6.028	0	%100
57	MP1C	X	-3.48	-3.48	0	%100
58	MP1C	Z	6.028	6.028	0	%100
59	MP2C	X	-3.48	-3.48	0	%100
60	MP2C	Z	6.028	6.028	0	%100
61	MP3C	X	-3.48	-3.48	0	%100
62	MP3C	Z	6.028	6.028	0	%100
63	MP4C	X	-3.48	-3.48	0	%100
64	MP4C	Z	6.028	6.028	0	%100
65	MP1B	X	-3.48	-3.48	0	%100
66	MP1B	Z	6.028	6.028	0	%100
67	MP2B	X	-3.48	-3.48	0	%100
68	MP2B	Z	6.028	6.028	0	%100
69	MP3B	X	-3.48	-3.48	0	%100
70	MP3B	Z	6.028	6.028	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,%]
71	MP4B	X	-3.48	-3.48	0	%100
72	MP4B	Z	6.028	6.028	0	%100
73	M59	X	-2.846	-2.846	0	%100
74	M59	Z	4.929	4.929	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	M1	X	-5.578	-5.578	0	%100
2	M1	Z	3.221	3.221	0	%100
3	M4	X	-3.807	-3.807	0	%100
4	M4	Z	2.198	2.198	0	%100
5	M8	X	-4.869	-4.869	0	%100
6	M8	Z	2.811	2.811	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	-15.228	-15.228	0	%100
10	M12	Z	8.792	8.792	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	-5.578	-5.578	0	%100
14	M21A	Z	3.221	3.221	0	%100
15	M22	X	-3.807	-3.807	0	%100
16	M22	Z	2.198	2.198	0	%100
17	M23	X	-4.869	-4.869	0	%100
18	M23	Z	2.811	2.811	0	%100
19	LV1	X	-1.845	-1.845	0	%100
20	LV1	Z	1.065	1.065	0	%100
21	LV2	X	-1.827	-1.827	0	%100
22	LV2	Z	1.055	1.055	0	%100
23	M33	X	-1.845	-1.845	0	%100
24	M33	Z	1.065	1.065	0	%100
25	M22A	X	-7.379	-7.379	0	%100
26	M22A	Z	4.26	4.26	0	%100
27	M23A	X	-7.309	-7.309	0	%100
28	M23A	Z	4.22	4.22	0	%100
29	M24	X	-7.379	-7.379	0	%100
30	M24	Z	4.26	4.26	0	%100
31	M25	X	-1.845	-1.845	0	%100
32	M25	Z	1.065	1.065	0	%100
33	M26A	X	-1.827	-1.827	0	%100
34	M26A	Z	1.055	1.055	0	%100
35	M27A	X	-1.845	-1.845	0	%100
36	M27A	Z	1.065	1.065	0	%100
37	M28A	X	-3.856	-3.856	0	%100
38	M28A	Z	2.226	2.226	0	%100
39	M29	X	-3.856	-3.856	0	%100
40	M29	Z	2.226	2.226	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	-3.856	-3.856	0	%100
46	M32A	Z	2.226	2.226	0	%100
47	M33A	X	-3.856	-3.856	0	%100
48	M33A	Z	2.226	2.226	0	%100
49	MP1A	X	-6.028	-6.028	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, %]
50	MP1A	Z	3.48	3.48	0	%100
51	MP2A	X	-6.028	-6.028	0	%100
52	MP2A	Z	3.48	3.48	0	%100
53	MP3A	X	-6.028	-6.028	0	%100
54	MP3A	Z	3.48	3.48	0	%100
55	MP4A	X	-6.028	-6.028	0	%100
56	MP4A	Z	3.48	3.48	0	%100
57	MP1C	X	-6.028	-6.028	0	%100
58	MP1C	Z	3.48	3.48	0	%100
59	MP2C	X	-6.028	-6.028	0	%100
60	MP2C	Z	3.48	3.48	0	%100
61	MP3C	X	-6.028	-6.028	0	%100
62	MP3C	Z	3.48	3.48	0	%100
63	MP4C	X	-6.028	-6.028	0	%100
64	MP4C	Z	3.48	3.48	0	%100
65	MP1B	X	-6.028	-6.028	0	%100
66	MP1B	Z	3.48	3.48	0	%100
67	MP2B	X	-6.028	-6.028	0	%100
68	MP2B	Z	3.48	3.48	0	%100
69	MP3B	X	-6.028	-6.028	0	%100
70	MP3B	Z	3.48	3.48	0	%100
71	MP4B	X	-6.028	-6.028	0	%100
72	MP4B	Z	3.48	3.48	0	%100
73	M59	X	-4.929	-4.929	0	%100
74	M59	Z	2.846	2.846	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	M1	X	-8.588	-8.588	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M8	X	-7.496	-7.496	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	-2.147	-2.147	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	-13.188	-13.188	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	-1.874	-1.874	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	-2.147	-2.147	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	-13.188	-13.188	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-1.874	-1.874	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	0	0	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	0	0	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	0	0	0	%100
25	M22A	X	-6.39	-6.39	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	-6.329	-6.329	0	%100
28	M23A	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, %]
29	M24	X	-6.39	-6.39	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	-6.39	-6.39	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	-6.329	-6.329	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	-6.39	-6.39	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	-5.937	-5.937	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	-5.937	-5.937	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	-1.484	-1.484	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	-1.484	-1.484	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	-1.484	-1.484	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	-1.484	-1.484	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	-6.96	-6.96	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-6.96	-6.96	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-6.96	-6.96	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-6.96	-6.96	0	%100
56	MP4A	Z	0	0	0	%100
57	MP1C	X	-6.96	-6.96	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	-6.96	-6.96	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3C	X	-6.96	-6.96	0	%100
62	MP3C	Z	0	0	0	%100
63	MP4C	X	-6.96	-6.96	0	%100
64	MP4C	Z	0	0	0	%100
65	MP1B	X	-6.96	-6.96	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	-6.96	-6.96	0	%100
68	MP2B	Z	0	0	0	%100
69	MP3B	X	-6.96	-6.96	0	%100
70	MP3B	Z	0	0	0	%100
71	MP4B	X	-6.96	-6.96	0	%100
72	MP4B	Z	0	0	0	%100
73	M59	X	-5.692	-5.692	0	%100
74	M59	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	M1	X	-5.578	-5.578	0	%100
2	M1	Z	-3.221	-3.221	0	%100
3	M4	X	-3.807	-3.807	0	%100
4	M4	Z	-2.198	-2.198	0	%100
5	M8	X	-4.869	-4.869	0	%100
6	M8	Z	-2.811	-2.811	0	%100
7	M11	X	-5.578	-5.578	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.%]
8	M11	Z	-3.221	-3.221	0	%100
9	M12	X	-3.807	-3.807	0	%100
10	M12	Z	-2.198	-2.198	0	%100
11	M13	X	-4.869	-4.869	0	%100
12	M13	Z	-2.811	-2.811	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	-15.228	-15.228	0	%100
16	M22	Z	-8.792	-8.792	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	-1.845	-1.845	0	%100
20	LV1	Z	-1.065	-1.065	0	%100
21	LV2	X	-1.827	-1.827	0	%100
22	LV2	Z	-1.055	-1.055	0	%100
23	M33	X	-1.845	-1.845	0	%100
24	M33	Z	-1.065	-1.065	0	%100
25	M22A	X	-1.845	-1.845	0	%100
26	M22A	Z	-1.065	-1.065	0	%100
27	M23A	X	-1.827	-1.827	0	%100
28	M23A	Z	-1.055	-1.055	0	%100
29	M24	X	-1.845	-1.845	0	%100
30	M24	Z	-1.065	-1.065	0	%100
31	M25	X	-7.379	-7.379	0	%100
32	M25	Z	-4.26	-4.26	0	%100
33	M26A	X	-7.309	-7.309	0	%100
34	M26A	Z	-4.22	-4.22	0	%100
35	M27A	X	-7.379	-7.379	0	%100
36	M27A	Z	-4.26	-4.26	0	%100
37	M28A	X	-3.856	-3.856	0	%100
38	M28A	Z	-2.226	-2.226	0	%100
39	M29	X	-3.856	-3.856	0	%100
40	M29	Z	-2.226	-2.226	0	%100
41	M30	X	-3.856	-3.856	0	%100
42	M30	Z	-2.226	-2.226	0	%100
43	M31A	X	-3.856	-3.856	0	%100
44	M31A	Z	-2.226	-2.226	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	-6.028	-6.028	0	%100
50	MP1A	Z	-3.48	-3.48	0	%100
51	MP2A	X	-6.028	-6.028	0	%100
52	MP2A	Z	-3.48	-3.48	0	%100
53	MP3A	X	-6.028	-6.028	0	%100
54	MP3A	Z	-3.48	-3.48	0	%100
55	MP4A	X	-6.028	-6.028	0	%100
56	MP4A	Z	-3.48	-3.48	0	%100
57	MP1C	X	-6.028	-6.028	0	%100
58	MP1C	Z	-3.48	-3.48	0	%100
59	MP2C	X	-6.028	-6.028	0	%100
60	MP2C	Z	-3.48	-3.48	0	%100
61	MP3C	X	-6.028	-6.028	0	%100
62	MP3C	Z	-3.48	-3.48	0	%100
63	MP4C	X	-6.028	-6.028	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, %]
64	MP4C	Z	-3.48	-3.48	0	%100
65	MP1B	X	-6.028	-6.028	0	%100
66	MP1B	Z	-3.48	-3.48	0	%100
67	MP2B	X	-6.028	-6.028	0	%100
68	MP2B	Z	-3.48	-3.48	0	%100
69	MP3B	X	-6.028	-6.028	0	%100
70	MP3B	Z	-3.48	-3.48	0	%100
71	MP4B	X	-6.028	-6.028	0	%100
72	MP4B	Z	-3.48	-3.48	0	%100
73	M59	X	-4.929	-4.929	0	%100
74	M59	Z	-2.846	-2.846	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	M1	X	-1.074	-1.074	0	%100
2	M1	Z	-1.859	-1.859	0	%100
3	M4	X	-6.594	-6.594	0	%100
4	M4	Z	-11.421	-11.421	0	%100
5	M8	X	-937	-937	0	%100
6	M8	Z	-1.623	-1.623	0	%100
7	M11	X	-4.294	-4.294	0	%100
8	M11	Z	-7.438	-7.438	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	-3.748	-3.748	0	%100
12	M13	Z	-6.492	-6.492	0	%100
13	M21A	X	-1.074	-1.074	0	%100
14	M21A	Z	-1.859	-1.859	0	%100
15	M22	X	-6.594	-6.594	0	%100
16	M22	Z	-11.421	-11.421	0	%100
17	M23	X	-937	-937	0	%100
18	M23	Z	-1.623	-1.623	0	%100
19	LV1	X	-3.195	-3.195	0	%100
20	LV1	Z	-5.534	-5.534	0	%100
21	LV2	X	-3.165	-3.165	0	%100
22	LV2	Z	-5.481	-5.481	0	%100
23	M33	X	-3.195	-3.195	0	%100
24	M33	Z	-5.534	-5.534	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	-3.195	-3.195	0	%100
32	M25	Z	-5.534	-5.534	0	%100
33	M26A	X	-3.165	-3.165	0	%100
34	M26A	Z	-5.481	-5.481	0	%100
35	M27A	X	-3.195	-3.195	0	%100
36	M27A	Z	-5.534	-5.534	0	%100
37	M28A	X	-.742	-.742	0	%100
38	M28A	Z	-1.285	-1.285	0	%100
39	M29	X	-.742	-.742	0	%100
40	M29	Z	-1.285	-1.285	0	%100
41	M30	X	-2.969	-2.969	0	%100
42	M30	Z	-5.142	-5.142	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, %]
43	M31A	X	-2.969	-2.969	0	%100
44	M31A	Z	-5.142	-5.142	0	%100
45	M32A	X	-.742	-.742	0	%100
46	M32A	Z	-1.285	-1.285	0	%100
47	M33A	X	-.742	-.742	0	%100
48	M33A	Z	-1.285	-1.285	0	%100
49	MP1A	X	-3.48	-3.48	0	%100
50	MP1A	Z	-6.028	-6.028	0	%100
51	MP2A	X	-3.48	-3.48	0	%100
52	MP2A	Z	-6.028	-6.028	0	%100
53	MP3A	X	-3.48	-3.48	0	%100
54	MP3A	Z	-6.028	-6.028	0	%100
55	MP4A	X	-3.48	-3.48	0	%100
56	MP4A	Z	-6.028	-6.028	0	%100
57	MP1C	X	-3.48	-3.48	0	%100
58	MP1C	Z	-6.028	-6.028	0	%100
59	MP2C	X	-3.48	-3.48	0	%100
60	MP2C	Z	-6.028	-6.028	0	%100
61	MP3C	X	-3.48	-3.48	0	%100
62	MP3C	Z	-6.028	-6.028	0	%100
63	MP4C	X	-3.48	-3.48	0	%100
64	MP4C	Z	-6.028	-6.028	0	%100
65	MP1B	X	-3.48	-3.48	0	%100
66	MP1B	Z	-6.028	-6.028	0	%100
67	MP2B	X	-3.48	-3.48	0	%100
68	MP2B	Z	-6.028	-6.028	0	%100
69	MP3B	X	-3.48	-3.48	0	%100
70	MP3B	Z	-6.028	-6.028	0	%100
71	MP4B	X	-3.48	-3.48	0	%100
72	MP4B	Z	-6.028	-6.028	0	%100
73	M59	X	-2.846	-2.846	0	%100
74	M59	Z	-4.929	-4.929	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-4.102	-4.102	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	-2.168	-2.168	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	-1.025	-1.025	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	-1.881	-1.881	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	-2.168	-2.168	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-1.025	-1.025	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	-1.881	-1.881	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	-2.86	-2.86	0	%100
21	LV2	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
22	LV2	Z	-2.83	-2.83	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	-2.86	-2.86	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	-.715	-.715	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	-.707	-.707	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	-.715	-.715	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	-.715	-.715	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	-.707	-.707	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	-.715	-.715	0	%100
37	M28A	X	0	0	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	0	0	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	-1.614	-1.614	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	-1.614	-1.614	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	-1.614	-1.614	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	-1.614	-1.614	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-2.583	-2.583	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-2.583	-2.583	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-2.583	-2.583	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-2.583	-2.583	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	-2.583	-2.583	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-2.583	-2.583	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	-2.583	-2.583	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	-2.583	-2.583	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	-2.583	-2.583	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	-2.583	-2.583	0	%100
69	MP3B	X	0	0	0	%100
70	MP3B	Z	-2.583	-2.583	0	%100
71	MP4B	X	0	0	0	%100
72	MP4B	Z	-2.583	-2.583	0	%100
73	M59	X	0	0	0	%100
74	M59	Z	-2.126	-2.126	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, %]
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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,%]
1	M1	X	.361	.361	0	%100
2	M1	Z	-.626	-.626	0	%100
3	M4	X	1.538	1.538	0	%100
4	M4	Z	-2.664	-2.664	0	%100
5	M8	X	.313	.313	0	%100
6	M8	Z	-.543	-.543	0	%100
7	M11	X	.361	.361	0	%100
8	M11	Z	-.626	-.626	0	%100
9	M12	X	1.538	1.538	0	%100
10	M12	Z	-2.664	-2.664	0	%100
11	M13	X	.313	.313	0	%100
12	M13	Z	-.543	-.543	0	%100
13	M21A	X	1.445	1.445	0	%100
14	M21A	Z	-2.503	-2.503	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	1.254	1.254	0	%100
18	M23	Z	-2.172	-2.172	0	%100
19	LV1	X	1.073	1.073	0	%100
20	LV1	Z	-1.858	-1.858	0	%100
21	LV2	X	1.061	1.061	0	%100
22	LV2	Z	-1.838	-1.838	0	%100
23	M33	X	1.073	1.073	0	%100
24	M33	Z	-1.858	-1.858	0	%100
25	M22A	X	1.073	1.073	0	%100
26	M22A	Z	-1.858	-1.858	0	%100
27	M23A	X	1.061	1.061	0	%100
28	M23A	Z	-1.838	-1.838	0	%100
29	M24	X	1.073	1.073	0	%100
30	M24	Z	-1.858	-1.858	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	.269	.269	0	%100
38	M28A	Z	-.466	-.466	0	%100
39	M29	X	.269	.269	0	%100
40	M29	Z	-.466	-.466	0	%100
41	M30	X	.269	.269	0	%100
42	M30	Z	-.466	-.466	0	%100
43	M31A	X	.269	.269	0	%100
44	M31A	Z	-.466	-.466	0	%100
45	M32A	X	1.076	1.076	0	%100
46	M32A	Z	-1.864	-1.864	0	%100
47	M33A	X	1.076	1.076	0	%100
48	M33A	Z	-1.864	-1.864	0	%100
49	MP1A	X	1.291	1.291	0	%100
50	MP1A	Z	-2.237	-2.237	0	%100
51	MP2A	X	1.291	1.291	0	%100
52	MP2A	Z	-2.237	-2.237	0	%100
53	MP3A	X	1.291	1.291	0	%100
54	MP3A	Z	-2.237	-2.237	0	%100
55	MP4A	X	1.291	1.291	0	%100
56	MP4A	Z	-2.237	-2.237	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, %]
57	MP1C	X	1.291	1.291	0	%100
58	MP1C	Z	-2.237	-2.237	0	%100
59	MP2C	X	1.291	1.291	0	%100
60	MP2C	Z	-2.237	-2.237	0	%100
61	MP3C	X	1.291	1.291	0	%100
62	MP3C	Z	-2.237	-2.237	0	%100
63	MP4C	X	1.291	1.291	0	%100
64	MP4C	Z	-2.237	-2.237	0	%100
65	MP1B	X	1.291	1.291	0	%100
66	MP1B	Z	-2.237	-2.237	0	%100
67	MP2B	X	1.291	1.291	0	%100
68	MP2B	Z	-2.237	-2.237	0	%100
69	MP3B	X	1.291	1.291	0	%100
70	MP3B	Z	-2.237	-2.237	0	%100
71	MP4B	X	1.291	1.291	0	%100
72	MP4B	Z	-2.237	-2.237	0	%100
73	M59	X	1.063	1.063	0	%100
74	M59	Z	-1.841	-1.841	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	M1	X	1.877	1.877	0	%100
2	M1	Z	-1.084	-1.084	0	%100
3	M4	X	.888	.888	0	%100
4	M4	Z	-.513	-.513	0	%100
5	M8	X	1.629	1.629	0	%100
6	M8	Z	-.94	-.94	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	3.552	3.552	0	%100
10	M12	Z	-2.051	-2.051	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	1.877	1.877	0	%100
14	M21A	Z	-1.084	-1.084	0	%100
15	M22	X	.888	.888	0	%100
16	M22	Z	-.513	-.513	0	%100
17	M23	X	1.629	1.629	0	%100
18	M23	Z	-.94	-.94	0	%100
19	LV1	X	.619	.619	0	%100
20	LV1	Z	-.358	-.358	0	%100
21	LV2	X	.613	.613	0	%100
22	LV2	Z	-.354	-.354	0	%100
23	M33	X	.619	.619	0	%100
24	M33	Z	-.358	-.358	0	%100
25	M22A	X	2.477	2.477	0	%100
26	M22A	Z	-1.43	-1.43	0	%100
27	M23A	X	2.451	2.451	0	%100
28	M23A	Z	-1.415	-1.415	0	%100
29	M24	X	2.477	2.477	0	%100
30	M24	Z	-1.43	-1.43	0	%100
31	M25	X	.619	.619	0	%100
32	M25	Z	-.358	-.358	0	%100
33	M26A	X	.613	.613	0	%100
34	M26A	Z	-.354	-.354	0	%100
35	M27A	X	.619	.619	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,%]
36	M27A	Z	-.358	-.358	0	%100
37	M28A	X	1.398	1.398	0	%100
38	M28A	Z	-.807	-.807	0	%100
39	M29	X	1.398	1.398	0	%100
40	M29	Z	-.807	-.807	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	1.398	1.398	0	%100
46	M32A	Z	-.807	-.807	0	%100
47	M33A	X	1.398	1.398	0	%100
48	M33A	Z	-.807	-.807	0	%100
49	MP1A	X	2.237	2.237	0	%100
50	MP1A	Z	-1.291	-1.291	0	%100
51	MP2A	X	2.237	2.237	0	%100
52	MP2A	Z	-1.291	-1.291	0	%100
53	MP3A	X	2.237	2.237	0	%100
54	MP3A	Z	-1.291	-1.291	0	%100
55	MP4A	X	2.237	2.237	0	%100
56	MP4A	Z	-1.291	-1.291	0	%100
57	MP1C	X	2.237	2.237	0	%100
58	MP1C	Z	-1.291	-1.291	0	%100
59	MP2C	X	2.237	2.237	0	%100
60	MP2C	Z	-1.291	-1.291	0	%100
61	MP3C	X	2.237	2.237	0	%100
62	MP3C	Z	-1.291	-1.291	0	%100
63	MP4C	X	2.237	2.237	0	%100
64	MP4C	Z	-1.291	-1.291	0	%100
65	MP1B	X	2.237	2.237	0	%100
66	MP1B	Z	-1.291	-1.291	0	%100
67	MP2B	X	2.237	2.237	0	%100
68	MP2B	Z	-1.291	-1.291	0	%100
69	MP3B	X	2.237	2.237	0	%100
70	MP3B	Z	-1.291	-1.291	0	%100
71	MP4B	X	2.237	2.237	0	%100
72	MP4B	Z	-1.291	-1.291	0	%100
73	M59	X	1.841	1.841	0	%100
74	M59	Z	-1.063	-1.063	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	M1	X	2.89	2.89	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M8	X	2.508	2.508	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	.723	.723	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	3.076	3.076	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	.627	.627	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	.723	.723	0	%100
14	M21A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	M22	X	3.076	3.076	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	.627	.627	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	0	0	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	0	0	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	0	0	0	%100
25	M22A	X	2.145	2.145	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	2.122	2.122	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	2.145	2.145	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	2.145	2.145	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	2.122	2.122	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	2.145	2.145	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	2.152	2.152	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	2.152	2.152	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	.538	.538	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	.538	.538	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	.538	.538	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	.538	.538	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	2.583	2.583	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	2.583	2.583	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	2.583	2.583	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	2.583	2.583	0	%100
56	MP4A	Z	0	0	0	%100
57	MP1C	X	2.583	2.583	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	2.583	2.583	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3C	X	2.583	2.583	0	%100
62	MP3C	Z	0	0	0	%100
63	MP4C	X	2.583	2.583	0	%100
64	MP4C	Z	0	0	0	%100
65	MP1B	X	2.583	2.583	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	2.583	2.583	0	%100
68	MP2B	Z	0	0	0	%100
69	MP3B	X	2.583	2.583	0	%100
70	MP3B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	MP4B	X	2.583	2.583	0	%100
72	MP4B	Z	0	0	0	%100
73	M59	X	2.126	2.126	0	%100
74	M59	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	M1	X	1.877	1.877	0	%100
2	M1	Z	1.084	1.084	0	%100
3	M4	X	.888	.888	0	%100
4	M4	Z	.513	.513	0	%100
5	M8	X	1.629	1.629	0	%100
6	M8	Z	.94	.94	0	%100
7	M11	X	1.877	1.877	0	%100
8	M11	Z	1.084	1.084	0	%100
9	M12	X	.888	.888	0	%100
10	M12	Z	.513	.513	0	%100
11	M13	X	1.629	1.629	0	%100
12	M13	Z	.94	.94	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	3.552	3.552	0	%100
16	M22	Z	2.051	2.051	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	.619	.619	0	%100
20	LV1	Z	.358	.358	0	%100
21	LV2	X	.613	.613	0	%100
22	LV2	Z	.354	.354	0	%100
23	M33	X	.619	.619	0	%100
24	M33	Z	.358	.358	0	%100
25	M22A	X	.619	.619	0	%100
26	M22A	Z	.358	.358	0	%100
27	M23A	X	.613	.613	0	%100
28	M23A	Z	.354	.354	0	%100
29	M24	X	.619	.619	0	%100
30	M24	Z	.358	.358	0	%100
31	M25	X	2.477	2.477	0	%100
32	M25	Z	1.43	1.43	0	%100
33	M26A	X	2.451	2.451	0	%100
34	M26A	Z	1.415	1.415	0	%100
35	M27A	X	2.477	2.477	0	%100
36	M27A	Z	1.43	1.43	0	%100
37	M28A	X	1.398	1.398	0	%100
38	M28A	Z	.807	.807	0	%100
39	M29	X	1.398	1.398	0	%100
40	M29	Z	.807	.807	0	%100
41	M30	X	1.398	1.398	0	%100
42	M30	Z	.807	.807	0	%100
43	M31A	X	1.398	1.398	0	%100
44	M31A	Z	.807	.807	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	2.237	2.237	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
50	MP1A	Z	1.291	1.291	0	%100
51	MP2A	X	2.237	2.237	0	%100
52	MP2A	Z	1.291	1.291	0	%100
53	MP3A	X	2.237	2.237	0	%100
54	MP3A	Z	1.291	1.291	0	%100
55	MP4A	X	2.237	2.237	0	%100
56	MP4A	Z	1.291	1.291	0	%100
57	MP1C	X	2.237	2.237	0	%100
58	MP1C	Z	1.291	1.291	0	%100
59	MP2C	X	2.237	2.237	0	%100
60	MP2C	Z	1.291	1.291	0	%100
61	MP3C	X	2.237	2.237	0	%100
62	MP3C	Z	1.291	1.291	0	%100
63	MP4C	X	2.237	2.237	0	%100
64	MP4C	Z	1.291	1.291	0	%100
65	MP1B	X	2.237	2.237	0	%100
66	MP1B	Z	1.291	1.291	0	%100
67	MP2B	X	2.237	2.237	0	%100
68	MP2B	Z	1.291	1.291	0	%100
69	MP3B	X	2.237	2.237	0	%100
70	MP3B	Z	1.291	1.291	0	%100
71	MP4B	X	2.237	2.237	0	%100
72	MP4B	Z	1.291	1.291	0	%100
73	M59	X	1.841	1.841	0	%100
74	M59	Z	1.063	1.063	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.361	.361	0	%100
2	M1	Z	.626	.626	0	%100
3	M4	X	1.538	1.538	0	%100
4	M4	Z	2.664	2.664	0	%100
5	M8	X	.313	.313	0	%100
6	M8	Z	.543	.543	0	%100
7	M11	X	1.445	1.445	0	%100
8	M11	Z	2.503	2.503	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	1.254	1.254	0	%100
12	M13	Z	2.172	2.172	0	%100
13	M21A	X	.361	.361	0	%100
14	M21A	Z	.626	.626	0	%100
15	M22	X	1.538	1.538	0	%100
16	M22	Z	2.664	2.664	0	%100
17	M23	X	.313	.313	0	%100
18	M23	Z	.543	.543	0	%100
19	LV1	X	1.073	1.073	0	%100
20	LV1	Z	1.858	1.858	0	%100
21	LV2	X	1.061	1.061	0	%100
22	LV2	Z	1.838	1.838	0	%100
23	M33	X	1.073	1.073	0	%100
24	M33	Z	1.858	1.858	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M24	X	0	0	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	1.073	1.073	0	%100
32	M25	Z	1.858	1.858	0	%100
33	M26A	X	1.061	1.061	0	%100
34	M26A	Z	1.838	1.838	0	%100
35	M27A	X	1.073	1.073	0	%100
36	M27A	Z	1.858	1.858	0	%100
37	M28A	X	.269	.269	0	%100
38	M28A	Z	.466	.466	0	%100
39	M29	X	.269	.269	0	%100
40	M29	Z	.466	.466	0	%100
41	M30	X	1.076	1.076	0	%100
42	M30	Z	1.864	1.864	0	%100
43	M31A	X	1.076	1.076	0	%100
44	M31A	Z	1.864	1.864	0	%100
45	M32A	X	.269	.269	0	%100
46	M32A	Z	.466	.466	0	%100
47	M33A	X	.269	.269	0	%100
48	M33A	Z	.466	.466	0	%100
49	MP1A	X	1.291	1.291	0	%100
50	MP1A	Z	2.237	2.237	0	%100
51	MP2A	X	1.291	1.291	0	%100
52	MP2A	Z	2.237	2.237	0	%100
53	MP3A	X	1.291	1.291	0	%100
54	MP3A	Z	2.237	2.237	0	%100
55	MP4A	X	1.291	1.291	0	%100
56	MP4A	Z	2.237	2.237	0	%100
57	MP1C	X	1.291	1.291	0	%100
58	MP1C	Z	2.237	2.237	0	%100
59	MP2C	X	1.291	1.291	0	%100
60	MP2C	Z	2.237	2.237	0	%100
61	MP3C	X	1.291	1.291	0	%100
62	MP3C	Z	2.237	2.237	0	%100
63	MP4C	X	1.291	1.291	0	%100
64	MP4C	Z	2.237	2.237	0	%100
65	MP1B	X	1.291	1.291	0	%100
66	MP1B	Z	2.237	2.237	0	%100
67	MP2B	X	1.291	1.291	0	%100
68	MP2B	Z	2.237	2.237	0	%100
69	MP3B	X	1.291	1.291	0	%100
70	MP3B	Z	2.237	2.237	0	%100
71	MP4B	X	1.291	1.291	0	%100
72	MP4B	Z	2.237	2.237	0	%100
73	M59	X	1.063	1.063	0	%100
74	M59	Z	1.841	1.841	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	4.102	4.102	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M11	Z	2.168	2.168	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	1.025	1.025	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	1.881	1.881	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	2.168	2.168	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	1.025	1.025	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	1.881	1.881	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	2.86	2.86	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	2.83	2.83	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	2.86	2.86	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	.715	.715	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	.707	.707	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	.715	.715	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	.715	.715	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	.707	.707	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	.715	.715	0	%100
37	M28A	X	0	0	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	0	0	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	1.614	1.614	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	1.614	1.614	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	1.614	1.614	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	1.614	1.614	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	2.583	2.583	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	2.583	2.583	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	2.583	2.583	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	2.583	2.583	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	2.583	2.583	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	2.583	2.583	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	2.583	2.583	0	%100
63	MP4C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	MP4C	Z	2.583	2.583	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	2.583	2.583	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	2.583	2.583	0	%100
69	MP3B	X	0	0	0	%100
70	MP3B	Z	2.583	2.583	0	%100
71	MP4B	X	0	0	0	%100
72	MP4B	Z	2.583	2.583	0	%100
73	M59	X	0	0	0	%100
74	M59	Z	2.126	2.126	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	M1	X	-.361	-.361	0	%100
2	M1	Z	.626	.626	0	%100
3	M4	X	-1.538	-1.538	0	%100
4	M4	Z	2.664	2.664	0	%100
5	M8	X	-.313	-.313	0	%100
6	M8	Z	.543	.543	0	%100
7	M11	X	-.361	-.361	0	%100
8	M11	Z	.626	.626	0	%100
9	M12	X	-1.538	-1.538	0	%100
10	M12	Z	2.664	2.664	0	%100
11	M13	X	-.313	-.313	0	%100
12	M13	Z	.543	.543	0	%100
13	M21A	X	-1.445	-1.445	0	%100
14	M21A	Z	2.503	2.503	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-1.254	-1.254	0	%100
18	M23	Z	2.172	2.172	0	%100
19	LV1	X	-1.073	-1.073	0	%100
20	LV1	Z	1.858	1.858	0	%100
21	LV2	X	-1.061	-1.061	0	%100
22	LV2	Z	1.838	1.838	0	%100
23	M33	X	-1.073	-1.073	0	%100
24	M33	Z	1.858	1.858	0	%100
25	M22A	X	-1.073	-1.073	0	%100
26	M22A	Z	1.858	1.858	0	%100
27	M23A	X	-1.061	-1.061	0	%100
28	M23A	Z	1.838	1.838	0	%100
29	M24	X	-1.073	-1.073	0	%100
30	M24	Z	1.858	1.858	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	-.269	-.269	0	%100
38	M28A	Z	.466	.466	0	%100
39	M29	X	-.269	-.269	0	%100
40	M29	Z	.466	.466	0	%100
41	M30	X	-.269	-.269	0	%100
42	M30	Z	.466	.466	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	M31A	X	-.269	-.269	0	%100
44	M31A	Z	.466	.466	0	%100
45	M32A	X	-1.076	-1.076	0	%100
46	M32A	Z	1.864	1.864	0	%100
47	M33A	X	-1.076	-1.076	0	%100
48	M33A	Z	1.864	1.864	0	%100
49	MP1A	X	-1.291	-1.291	0	%100
50	MP1A	Z	2.237	2.237	0	%100
51	MP2A	X	-1.291	-1.291	0	%100
52	MP2A	Z	2.237	2.237	0	%100
53	MP3A	X	-1.291	-1.291	0	%100
54	MP3A	Z	2.237	2.237	0	%100
55	MP4A	X	-1.291	-1.291	0	%100
56	MP4A	Z	2.237	2.237	0	%100
57	MP1C	X	-1.291	-1.291	0	%100
58	MP1C	Z	2.237	2.237	0	%100
59	MP2C	X	-1.291	-1.291	0	%100
60	MP2C	Z	2.237	2.237	0	%100
61	MP3C	X	-1.291	-1.291	0	%100
62	MP3C	Z	2.237	2.237	0	%100
63	MP4C	X	-1.291	-1.291	0	%100
64	MP4C	Z	2.237	2.237	0	%100
65	MP1B	X	-1.291	-1.291	0	%100
66	MP1B	Z	2.237	2.237	0	%100
67	MP2B	X	-1.291	-1.291	0	%100
68	MP2B	Z	2.237	2.237	0	%100
69	MP3B	X	-1.291	-1.291	0	%100
70	MP3B	Z	2.237	2.237	0	%100
71	MP4B	X	-1.291	-1.291	0	%100
72	MP4B	Z	2.237	2.237	0	%100
73	M59	X	-1.063	-1.063	0	%100
74	M59	Z	1.841	1.841	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	M1	X	-1.877	-1.877	0	%100
2	M1	Z	1.084	1.084	0	%100
3	M4	X	-.888	-.888	0	%100
4	M4	Z	.513	.513	0	%100
5	M8	X	-1.629	-1.629	0	%100
6	M8	Z	.94	.94	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	-3.552	-3.552	0	%100
10	M12	Z	2.051	2.051	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	-1.877	-1.877	0	%100
14	M21A	Z	1.084	1.084	0	%100
15	M22	X	-.888	-.888	0	%100
16	M22	Z	.513	.513	0	%100
17	M23	X	-1.629	-1.629	0	%100
18	M23	Z	.94	.94	0	%100
19	LV1	X	-.619	-.619	0	%100
20	LV1	Z	.358	.358	0	%100
21	LV2	X	-.613	-.613	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
22	LV2	Z	.354	.354	0	%100
23	M33	X	-.619	-.619	0	%100
24	M33	Z	.358	.358	0	%100
25	M22A	X	-2.477	-2.477	0	%100
26	M22A	Z	1.43	1.43	0	%100
27	M23A	X	-2.451	-2.451	0	%100
28	M23A	Z	1.415	1.415	0	%100
29	M24	X	-2.477	-2.477	0	%100
30	M24	Z	1.43	1.43	0	%100
31	M25	X	-.619	-.619	0	%100
32	M25	Z	.358	.358	0	%100
33	M26A	X	-.613	-.613	0	%100
34	M26A	Z	.354	.354	0	%100
35	M27A	X	-.619	-.619	0	%100
36	M27A	Z	.358	.358	0	%100
37	M28A	X	-1.398	-1.398	0	%100
38	M28A	Z	.807	.807	0	%100
39	M29	X	-1.398	-1.398	0	%100
40	M29	Z	.807	.807	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	-1.398	-1.398	0	%100
46	M32A	Z	.807	.807	0	%100
47	M33A	X	-1.398	-1.398	0	%100
48	M33A	Z	.807	.807	0	%100
49	MP1A	X	-2.237	-2.237	0	%100
50	MP1A	Z	1.291	1.291	0	%100
51	MP2A	X	-2.237	-2.237	0	%100
52	MP2A	Z	1.291	1.291	0	%100
53	MP3A	X	-2.237	-2.237	0	%100
54	MP3A	Z	1.291	1.291	0	%100
55	MP4A	X	-2.237	-2.237	0	%100
56	MP4A	Z	1.291	1.291	0	%100
57	MP1C	X	-2.237	-2.237	0	%100
58	MP1C	Z	1.291	1.291	0	%100
59	MP2C	X	-2.237	-2.237	0	%100
60	MP2C	Z	1.291	1.291	0	%100
61	MP3C	X	-2.237	-2.237	0	%100
62	MP3C	Z	1.291	1.291	0	%100
63	MP4C	X	-2.237	-2.237	0	%100
64	MP4C	Z	1.291	1.291	0	%100
65	MP1B	X	-2.237	-2.237	0	%100
66	MP1B	Z	1.291	1.291	0	%100
67	MP2B	X	-2.237	-2.237	0	%100
68	MP2B	Z	1.291	1.291	0	%100
69	MP3B	X	-2.237	-2.237	0	%100
70	MP3B	Z	1.291	1.291	0	%100
71	MP4B	X	-2.237	-2.237	0	%100
72	MP4B	Z	1.291	1.291	0	%100
73	M59	X	-1.841	-1.841	0	%100
74	M59	Z	1.063	1.063	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, %]
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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,%]
1	M1	X	-2.89	-2.89	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M8	X	-2.508	-2.508	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	-.723	-.723	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	-3.076	-3.076	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	-.627	-.627	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	-.723	-.723	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	-3.076	-3.076	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-.627	-.627	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	0	0	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	0	0	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	0	0	0	%100
25	M22A	X	-2.145	-2.145	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	-2.122	-2.122	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	-2.145	-2.145	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	-2.145	-2.145	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	-2.122	-2.122	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	-2.145	-2.145	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	-2.152	-2.152	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	-2.152	-2.152	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	-.538	-.538	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	-.538	-.538	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	-.538	-.538	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	-.538	-.538	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	-2.583	-2.583	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-2.583	-2.583	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-2.583	-2.583	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-2.583	-2.583	0	%100
56	MP4A	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,%)
57	MP1C	X	-2.583	-2.583	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	-2.583	-2.583	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3C	X	-2.583	-2.583	0	%100
62	MP3C	Z	0	0	0	%100
63	MP4C	X	-2.583	-2.583	0	%100
64	MP4C	Z	0	0	0	%100
65	MP1B	X	-2.583	-2.583	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	-2.583	-2.583	0	%100
68	MP2B	Z	0	0	0	%100
69	MP3B	X	-2.583	-2.583	0	%100
70	MP3B	Z	0	0	0	%100
71	MP4B	X	-2.583	-2.583	0	%100
72	MP4B	Z	0	0	0	%100
73	M59	X	-2.126	-2.126	0	%100
74	M59	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	M1	X	-1.877	-1.877	0	%100
2	M1	Z	-1.084	-1.084	0	%100
3	M4	X	-.888	-.888	0	%100
4	M4	Z	-.513	-.513	0	%100
5	M8	X	-1.629	-1.629	0	%100
6	M8	Z	-.94	-.94	0	%100
7	M11	X	-1.877	-1.877	0	%100
8	M11	Z	-1.084	-1.084	0	%100
9	M12	X	-.888	-.888	0	%100
10	M12	Z	-.513	-.513	0	%100
11	M13	X	-1.629	-1.629	0	%100
12	M13	Z	-.94	-.94	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	-3.552	-3.552	0	%100
16	M22	Z	-2.051	-2.051	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	-.619	-.619	0	%100
20	LV1	Z	-.358	-.358	0	%100
21	LV2	X	-.613	-.613	0	%100
22	LV2	Z	-.354	-.354	0	%100
23	M33	X	-.619	-.619	0	%100
24	M33	Z	-.358	-.358	0	%100
25	M22A	X	-.619	-.619	0	%100
26	M22A	Z	-.358	-.358	0	%100
27	M23A	X	-.613	-.613	0	%100
28	M23A	Z	-.354	-.354	0	%100
29	M24	X	-.619	-.619	0	%100
30	M24	Z	-.358	-.358	0	%100
31	M25	X	-2.477	-2.477	0	%100
32	M25	Z	-1.43	-1.43	0	%100
33	M26A	X	-2.451	-2.451	0	%100
34	M26A	Z	-1.415	-1.415	0	%100
35	M27A	X	-2.477	-2.477	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
36	M27A	Z	-1.43	-1.43	0	%100
37	M28A	X	-1.398	-1.398	0	%100
38	M28A	Z	-.807	-.807	0	%100
39	M29	X	-1.398	-1.398	0	%100
40	M29	Z	-.807	-.807	0	%100
41	M30	X	-1.398	-1.398	0	%100
42	M30	Z	-.807	-.807	0	%100
43	M31A	X	-1.398	-1.398	0	%100
44	M31A	Z	-.807	-.807	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	-2.237	-2.237	0	%100
50	MP1A	Z	-1.291	-1.291	0	%100
51	MP2A	X	-2.237	-2.237	0	%100
52	MP2A	Z	-1.291	-1.291	0	%100
53	MP3A	X	-2.237	-2.237	0	%100
54	MP3A	Z	-1.291	-1.291	0	%100
55	MP4A	X	-2.237	-2.237	0	%100
56	MP4A	Z	-1.291	-1.291	0	%100
57	MP1C	X	-2.237	-2.237	0	%100
58	MP1C	Z	-1.291	-1.291	0	%100
59	MP2C	X	-2.237	-2.237	0	%100
60	MP2C	Z	-1.291	-1.291	0	%100
61	MP3C	X	-2.237	-2.237	0	%100
62	MP3C	Z	-1.291	-1.291	0	%100
63	MP4C	X	-2.237	-2.237	0	%100
64	MP4C	Z	-1.291	-1.291	0	%100
65	MP1B	X	-2.237	-2.237	0	%100
66	MP1B	Z	-1.291	-1.291	0	%100
67	MP2B	X	-2.237	-2.237	0	%100
68	MP2B	Z	-1.291	-1.291	0	%100
69	MP3B	X	-2.237	-2.237	0	%100
70	MP3B	Z	-1.291	-1.291	0	%100
71	MP4B	X	-2.237	-2.237	0	%100
72	MP4B	Z	-1.291	-1.291	0	%100
73	M59	X	-1.841	-1.841	0	%100
74	M59	Z	-1.063	-1.063	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	M1	X	-.361	-.361	0	%100
2	M1	Z	-.626	-.626	0	%100
3	M4	X	-1.538	-1.538	0	%100
4	M4	Z	-2.664	-2.664	0	%100
5	M8	X	-.313	-.313	0	%100
6	M8	Z	-.543	-.543	0	%100
7	M11	X	-1.445	-1.445	0	%100
8	M11	Z	-2.503	-2.503	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	-1.254	-1.254	0	%100
12	M13	Z	-2.172	-2.172	0	%100
13	M21A	X	-.361	-.361	0	%100
14	M21A	Z	-.626	-.626	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, %]
15	M22	X	-1.538	-1.538	0	% 100
16	M22	Z	-2.664	-2.664	0	% 100
17	M23	X	-.313	-.313	0	% 100
18	M23	Z	-.543	-.543	0	% 100
19	LV1	X	-1.073	-1.073	0	% 100
20	LV1	Z	-1.858	-1.858	0	% 100
21	LV2	X	-1.061	-1.061	0	% 100
22	LV2	Z	-1.838	-1.838	0	% 100
23	M33	X	-1.073	-1.073	0	% 100
24	M33	Z	-1.858	-1.858	0	% 100
25	M22A	X	0	0	0	% 100
26	M22A	Z	0	0	0	% 100
27	M23A	X	0	0	0	% 100
28	M23A	Z	0	0	0	% 100
29	M24	X	0	0	0	% 100
30	M24	Z	0	0	0	% 100
31	M25	X	-1.073	-1.073	0	% 100
32	M25	Z	-1.858	-1.858	0	% 100
33	M26A	X	-1.061	-1.061	0	% 100
34	M26A	Z	-1.838	-1.838	0	% 100
35	M27A	X	-1.073	-1.073	0	% 100
36	M27A	Z	-1.858	-1.858	0	% 100
37	M28A	X	-.269	-.269	0	% 100
38	M28A	Z	-.466	-.466	0	% 100
39	M29	X	-.269	-.269	0	% 100
40	M29	Z	-.466	-.466	0	% 100
41	M30	X	-1.076	-1.076	0	% 100
42	M30	Z	-1.864	-1.864	0	% 100
43	M31A	X	-1.076	-1.076	0	% 100
44	M31A	Z	-1.864	-1.864	0	% 100
45	M32A	X	-.269	-.269	0	% 100
46	M32A	Z	-.466	-.466	0	% 100
47	M33A	X	-.269	-.269	0	% 100
48	M33A	Z	-.466	-.466	0	% 100
49	MP1A	X	-1.291	-1.291	0	% 100
50	MP1A	Z	-2.237	-2.237	0	% 100
51	MP2A	X	-1.291	-1.291	0	% 100
52	MP2A	Z	-2.237	-2.237	0	% 100
53	MP3A	X	-1.291	-1.291	0	% 100
54	MP3A	Z	-2.237	-2.237	0	% 100
55	MP4A	X	-1.291	-1.291	0	% 100
56	MP4A	Z	-2.237	-2.237	0	% 100
57	MP1C	X	-1.291	-1.291	0	% 100
58	MP1C	Z	-2.237	-2.237	0	% 100
59	MP2C	X	-1.291	-1.291	0	% 100
60	MP2C	Z	-2.237	-2.237	0	% 100
61	MP3C	X	-1.291	-1.291	0	% 100
62	MP3C	Z	-2.237	-2.237	0	% 100
63	MP4C	X	-1.291	-1.291	0	% 100
64	MP4C	Z	-2.237	-2.237	0	% 100
65	MP1B	X	-1.291	-1.291	0	% 100
66	MP1B	Z	-2.237	-2.237	0	% 100
67	MP2B	X	-1.291	-1.291	0	% 100
68	MP2B	Z	-2.237	-2.237	0	% 100
69	MP3B	X	-1.291	-1.291	0	% 100
70	MP3B	Z	-2.237	-2.237	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,%]
71	MP4B	X	-1.291	-1.291	0	%100
72	MP4B	Z	-2.237	-2.237	0	%100
73	M59	X	-1.063	-1.063	0	%100
74	M59	Z	-1.841	-1.841	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-1.197	-1.197	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	-.438	-.438	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	-.299	-.299	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	-.383	-.383	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	-.438	-.438	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-.299	-.299	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	-.383	-.383	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	-.58	-.58	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	-.574	-.574	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	-.58	-.58	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	-.145	-.145	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	-.144	-.144	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	-.145	-.145	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	-.145	-.145	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	-.144	-.144	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	-.145	-.145	0	%100
37	M28A	X	0	0	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	0	0	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	-.303	-.303	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	-.303	-.303	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	-.303	-.303	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	-.303	-.303	0	%100
49	MP1A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
50	MP1A	Z	-.474	-.474	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-.474	-.474	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	-.474	-.474	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	-.474	-.474	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	-.474	-.474	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-.474	-.474	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	-.474	-.474	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	-.474	-.474	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	-.474	-.474	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	-.474	-.474	0	%100
69	MP3B	X	0	0	0	%100
70	MP3B	Z	-.474	-.474	0	%100
71	MP4B	X	0	0	0	%100
72	MP4B	Z	-.474	-.474	0	%100
73	M59	X	0	0	0	%100
74	M59	Z	-.387	-.387	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.073	.073	0	%100
2	M1	Z	-.127	-.127	0	%100
3	M4	X	.449	.449	0	%100
4	M4	Z	-.777	-.777	0	%100
5	M8	X	.064	.064	0	%100
6	M8	Z	-.11	-.11	0	%100
7	M11	X	.073	.073	0	%100
8	M11	Z	-.127	-.127	0	%100
9	M12	X	.449	.449	0	%100
10	M12	Z	-.777	-.777	0	%100
11	M13	X	.064	.064	0	%100
12	M13	Z	-.11	-.11	0	%100
13	M21A	X	.292	.292	0	%100
14	M21A	Z	-.506	-.506	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	.255	.255	0	%100
18	M23	Z	-.442	-.442	0	%100
19	LV1	X	.217	.217	0	%100
20	LV1	Z	-.377	-.377	0	%100
21	LV2	X	.215	.215	0	%100
22	LV2	Z	-.373	-.373	0	%100
23	M33	X	.217	.217	0	%100
24	M33	Z	-.377	-.377	0	%100
25	M22A	X	.217	.217	0	%100
26	M22A	Z	-.377	-.377	0	%100
27	M23A	X	.215	.215	0	%100
28	M23A	Z	-.373	-.373	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M24	X	.217	.217	0	% 100
30	M24	Z	-.377	-.377	0	% 100
31	M25	X	0	0	0	% 100
32	M25	Z	0	0	0	% 100
33	M26A	X	0	0	0	% 100
34	M26A	Z	0	0	0	% 100
35	M27A	X	0	0	0	% 100
36	M27A	Z	0	0	0	% 100
37	M28A	X	.051	.051	0	% 100
38	M28A	Z	-.087	-.087	0	% 100
39	M29	X	.051	.051	0	% 100
40	M29	Z	-.087	-.087	0	% 100
41	M30	X	.051	.051	0	% 100
42	M30	Z	-.087	-.087	0	% 100
43	M31A	X	.051	.051	0	% 100
44	M31A	Z	-.087	-.087	0	% 100
45	M32A	X	.202	.202	0	% 100
46	M32A	Z	-.35	-.35	0	% 100
47	M33A	X	.202	.202	0	% 100
48	M33A	Z	-.35	-.35	0	% 100
49	MP1A	X	.237	.237	0	% 100
50	MP1A	Z	-.41	-.41	0	% 100
51	MP2A	X	.237	.237	0	% 100
52	MP2A	Z	-.41	-.41	0	% 100
53	MP3A	X	.237	.237	0	% 100
54	MP3A	Z	-.41	-.41	0	% 100
55	MP4A	X	.237	.237	0	% 100
56	MP4A	Z	-.41	-.41	0	% 100
57	MP1C	X	.237	.237	0	% 100
58	MP1C	Z	-.41	-.41	0	% 100
59	MP2C	X	.237	.237	0	% 100
60	MP2C	Z	-.41	-.41	0	% 100
61	MP3C	X	.237	.237	0	% 100
62	MP3C	Z	-.41	-.41	0	% 100
63	MP4C	X	.237	.237	0	% 100
64	MP4C	Z	-.41	-.41	0	% 100
65	MP1B	X	.237	.237	0	% 100
66	MP1B	Z	-.41	-.41	0	% 100
67	MP2B	X	.237	.237	0	% 100
68	MP2B	Z	-.41	-.41	0	% 100
69	MP3B	X	.237	.237	0	% 100
70	MP3B	Z	-.41	-.41	0	% 100
71	MP4B	X	.237	.237	0	% 100
72	MP4B	Z	-.41	-.41	0	% 100
73	M59	X	.194	.194	0	% 100
74	M59	Z	-.335	-.335	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	M1	X	.38	.38	0	% 100
2	M1	Z	-.219	-.219	0	% 100
3	M4	X	.259	.259	0	% 100
4	M4	Z	-.15	-.15	0	% 100
5	M8	X	.331	.331	0	% 100
6	M8	Z	-.191	-.191	0	% 100
7	M11	X	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M11	Z	0	0	0	%100
9	M12	X	1.036	1.036	0	%100
10	M12	Z	-.598	-.598	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	.38	.38	0	%100
14	M21A	Z	-.219	-.219	0	%100
15	M22	X	.259	.259	0	%100
16	M22	Z	-.15	-.15	0	%100
17	M23	X	.331	.331	0	%100
18	M23	Z	-.191	-.191	0	%100
19	LV1	X	.126	.126	0	%100
20	LV1	Z	-.072	-.072	0	%100
21	LV2	X	.124	.124	0	%100
22	LV2	Z	-.072	-.072	0	%100
23	M33	X	.126	.126	0	%100
24	M33	Z	-.072	-.072	0	%100
25	M22A	X	.502	.502	0	%100
26	M22A	Z	-.29	-.29	0	%100
27	M23A	X	.497	.497	0	%100
28	M23A	Z	-.287	-.287	0	%100
29	M24	X	.502	.502	0	%100
30	M24	Z	-.29	-.29	0	%100
31	M25	X	.126	.126	0	%100
32	M25	Z	-.072	-.072	0	%100
33	M26A	X	.124	.124	0	%100
34	M26A	Z	-.072	-.072	0	%100
35	M27A	X	.126	.126	0	%100
36	M27A	Z	-.072	-.072	0	%100
37	M28A	X	.262	.262	0	%100
38	M28A	Z	-.152	-.152	0	%100
39	M29	X	.262	.262	0	%100
40	M29	Z	-.152	-.152	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	.262	.262	0	%100
46	M32A	Z	-.152	-.152	0	%100
47	M33A	X	.262	.262	0	%100
48	M33A	Z	-.152	-.152	0	%100
49	MP1A	X	.41	.41	0	%100
50	MP1A	Z	-.237	-.237	0	%100
51	MP2A	X	.41	.41	0	%100
52	MP2A	Z	-.237	-.237	0	%100
53	MP3A	X	.41	.41	0	%100
54	MP3A	Z	-.237	-.237	0	%100
55	MP4A	X	.41	.41	0	%100
56	MP4A	Z	-.237	-.237	0	%100
57	MP1C	X	.41	.41	0	%100
58	MP1C	Z	-.237	-.237	0	%100
59	MP2C	X	.41	.41	0	%100
60	MP2C	Z	-.237	-.237	0	%100
61	MP3C	X	.41	.41	0	%100
62	MP3C	Z	-.237	-.237	0	%100
63	MP4C	X	.41	.41	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,%]
64	MP4C	Z	-.237	-.237	0	%100
65	MP1B	X	.41	.41	0	%100
66	MP1B	Z	-.237	-.237	0	%100
67	MP2B	X	.41	.41	0	%100
68	MP2B	Z	-.237	-.237	0	%100
69	MP3B	X	.41	.41	0	%100
70	MP3B	Z	-.237	-.237	0	%100
71	MP4B	X	.41	.41	0	%100
72	MP4B	Z	-.237	-.237	0	%100
73	M59	X	.335	.335	0	%100
74	M59	Z	-.194	-.194	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	M1	X	.584	.584	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M8	X	.51	.51	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	.146	.146	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	.897	.897	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	.128	.128	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	.146	.146	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	.897	.897	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	.128	.128	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	0	0	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	0	0	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	0	0	0	%100
25	M22A	X	.435	.435	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	.431	.431	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	.435	.435	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	.435	.435	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	.431	.431	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	.435	.435	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	.404	.404	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	.404	.404	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	.101	.101	0	%100
42	M30	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, %]
43	M31A	X	.101	.101	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	.101	.101	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	.101	.101	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	.474	.474	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	.474	.474	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	.474	.474	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	.474	.474	0	%100
56	MP4A	Z	0	0	0	%100
57	MP1C	X	.474	.474	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	.474	.474	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3C	X	.474	.474	0	%100
62	MP3C	Z	0	0	0	%100
63	MP4C	X	.474	.474	0	%100
64	MP4C	Z	0	0	0	%100
65	MP1B	X	.474	.474	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	.474	.474	0	%100
68	MP2B	Z	0	0	0	%100
69	MP3B	X	.474	.474	0	%100
70	MP3B	Z	0	0	0	%100
71	MP4B	X	.474	.474	0	%100
72	MP4B	Z	0	0	0	%100
73	M59	X	.387	.387	0	%100
74	M59	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	M1	X	.38	.38	0	%100
2	M1	Z	.219	.219	0	%100
3	M4	X	.259	.259	0	%100
4	M4	Z	.15	.15	0	%100
5	M8	X	.331	.331	0	%100
6	M8	Z	.191	.191	0	%100
7	M11	X	.38	.38	0	%100
8	M11	Z	.219	.219	0	%100
9	M12	X	.259	.259	0	%100
10	M12	Z	.15	.15	0	%100
11	M13	X	.331	.331	0	%100
12	M13	Z	.191	.191	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	1.036	1.036	0	%100
16	M22	Z	.598	.598	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	.126	.126	0	%100
20	LV1	Z	.072	.072	0	%100
21	LV2	X	.124	.124	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,%]
22	LV2	Z	.072	.072	0	%100
23	M33	X	.126	.126	0	%100
24	M33	Z	.072	.072	0	%100
25	M22A	X	.126	.126	0	%100
26	M22A	Z	.072	.072	0	%100
27	M23A	X	.124	.124	0	%100
28	M23A	Z	.072	.072	0	%100
29	M24	X	.126	.126	0	%100
30	M24	Z	.072	.072	0	%100
31	M25	X	.502	.502	0	%100
32	M25	Z	.29	.29	0	%100
33	M26A	X	.497	.497	0	%100
34	M26A	Z	.287	.287	0	%100
35	M27A	X	.502	.502	0	%100
36	M27A	Z	.29	.29	0	%100
37	M28A	X	.262	.262	0	%100
38	M28A	Z	.152	.152	0	%100
39	M29	X	.262	.262	0	%100
40	M29	Z	.152	.152	0	%100
41	M30	X	.262	.262	0	%100
42	M30	Z	.152	.152	0	%100
43	M31A	X	.262	.262	0	%100
44	M31A	Z	.152	.152	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	.41	.41	0	%100
50	MP1A	Z	.237	.237	0	%100
51	MP2A	X	.41	.41	0	%100
52	MP2A	Z	.237	.237	0	%100
53	MP3A	X	.41	.41	0	%100
54	MP3A	Z	.237	.237	0	%100
55	MP4A	X	.41	.41	0	%100
56	MP4A	Z	.237	.237	0	%100
57	MP1C	X	.41	.41	0	%100
58	MP1C	Z	.237	.237	0	%100
59	MP2C	X	.41	.41	0	%100
60	MP2C	Z	.237	.237	0	%100
61	MP3C	X	.41	.41	0	%100
62	MP3C	Z	.237	.237	0	%100
63	MP4C	X	.41	.41	0	%100
64	MP4C	Z	.237	.237	0	%100
65	MP1B	X	.41	.41	0	%100
66	MP1B	Z	.237	.237	0	%100
67	MP2B	X	.41	.41	0	%100
68	MP2B	Z	.237	.237	0	%100
69	MP3B	X	.41	.41	0	%100
70	MP3B	Z	.237	.237	0	%100
71	MP4B	X	.41	.41	0	%100
72	MP4B	Z	.237	.237	0	%100
73	M59	X	.335	.335	0	%100
74	M59	Z	.194	.194	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,%]
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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,%]
1	M1	X	.073	.073	0	%100
2	M1	Z	.127	.127	0	%100
3	M4	X	.449	.449	0	%100
4	M4	Z	.777	.777	0	%100
5	M8	X	.064	.064	0	%100
6	M8	Z	.11	.11	0	%100
7	M11	X	.292	.292	0	%100
8	M11	Z	.506	.506	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	.255	.255	0	%100
12	M13	Z	.442	.442	0	%100
13	M21A	X	.073	.073	0	%100
14	M21A	Z	.127	.127	0	%100
15	M22	X	.449	.449	0	%100
16	M22	Z	.777	.777	0	%100
17	M23	X	.064	.064	0	%100
18	M23	Z	.11	.11	0	%100
19	LV1	X	.217	.217	0	%100
20	LV1	Z	.377	.377	0	%100
21	LV2	X	.215	.215	0	%100
22	LV2	Z	.373	.373	0	%100
23	M33	X	.217	.217	0	%100
24	M33	Z	.377	.377	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	.217	.217	0	%100
32	M25	Z	.377	.377	0	%100
33	M26A	X	.215	.215	0	%100
34	M26A	Z	.373	.373	0	%100
35	M27A	X	.217	.217	0	%100
36	M27A	Z	.377	.377	0	%100
37	M28A	X	.051	.051	0	%100
38	M28A	Z	.087	.087	0	%100
39	M29	X	.051	.051	0	%100
40	M29	Z	.087	.087	0	%100
41	M30	X	.202	.202	0	%100
42	M30	Z	.35	.35	0	%100
43	M31A	X	.202	.202	0	%100
44	M31A	Z	.35	.35	0	%100
45	M32A	X	.051	.051	0	%100
46	M32A	Z	.087	.087	0	%100
47	M33A	X	.051	.051	0	%100
48	M33A	Z	.087	.087	0	%100
49	MP1A	X	.237	.237	0	%100
50	MP1A	Z	.41	.41	0	%100
51	MP2A	X	.237	.237	0	%100
52	MP2A	Z	.41	.41	0	%100
53	MP3A	X	.237	.237	0	%100
54	MP3A	Z	.41	.41	0	%100
55	MP4A	X	.237	.237	0	%100
56	MP4A	Z	.41	.41	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
57	MP1C	X	.237	.237	0	%100
58	MP1C	Z	.41	.41	0	%100
59	MP2C	X	.237	.237	0	%100
60	MP2C	Z	.41	.41	0	%100
61	MP3C	X	.237	.237	0	%100
62	MP3C	Z	.41	.41	0	%100
63	MP4C	X	.237	.237	0	%100
64	MP4C	Z	.41	.41	0	%100
65	MP1B	X	.237	.237	0	%100
66	MP1B	Z	.41	.41	0	%100
67	MP2B	X	.237	.237	0	%100
68	MP2B	Z	.41	.41	0	%100
69	MP3B	X	.237	.237	0	%100
70	MP3B	Z	.41	.41	0	%100
71	MP4B	X	.237	.237	0	%100
72	MP4B	Z	.41	.41	0	%100
73	M59	X	.194	.194	0	%100
74	M59	Z	.335	.335	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	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	1.197	1.197	0	%100
5	M8	X	0	0	0	%100
6	M8	Z	0	0	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	.438	.438	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	.299	.299	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	.383	.383	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	.438	.438	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	.299	.299	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	.383	.383	0	%100
19	LV1	X	0	0	0	%100
20	LV1	Z	.58	.58	0	%100
21	LV2	X	0	0	0	%100
22	LV2	Z	.574	.574	0	%100
23	M33	X	0	0	0	%100
24	M33	Z	.58	.58	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	.145	.145	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	.144	.144	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	.145	.145	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	.145	.145	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	.144	.144	0	%100
35	M27A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	M27A	Z	.145	.145	0	%100
37	M28A	X	0	0	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	0	0	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	.303	.303	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	.303	.303	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	.303	.303	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	.303	.303	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	.474	.474	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	.474	.474	0	%100
53	MP3A	X	0	0	0	%100
54	MP3A	Z	.474	.474	0	%100
55	MP4A	X	0	0	0	%100
56	MP4A	Z	.474	.474	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	.474	.474	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	.474	.474	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	.474	.474	0	%100
63	MP4C	X	0	0	0	%100
64	MP4C	Z	.474	.474	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	.474	.474	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	.474	.474	0	%100
69	MP3B	X	0	0	0	%100
70	MP3B	Z	.474	.474	0	%100
71	MP4B	X	0	0	0	%100
72	MP4B	Z	.474	.474	0	%100
73	M59	X	0	0	0	%100
74	M59	Z	.387	.387	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	M1	X	-.073	-.073	0	%100
2	M1	Z	.127	.127	0	%100
3	M4	X	-.449	-.449	0	%100
4	M4	Z	.777	.777	0	%100
5	M8	X	-.064	-.064	0	%100
6	M8	Z	.11	.11	0	%100
7	M11	X	-.073	-.073	0	%100
8	M11	Z	.127	.127	0	%100
9	M12	X	-.449	-.449	0	%100
10	M12	Z	.777	.777	0	%100
11	M13	X	-.064	-.064	0	%100
12	M13	Z	.11	.11	0	%100
13	M21A	X	-.292	-.292	0	%100
14	M21A	Z	.506	.506	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-.255	-.255	0	%100
18	M23	Z	.442	.442	0	%100
19	LV1	X	-.217	-.217	0	%100
20	LV1	Z	.377	.377	0	%100
21	LV2	X	-.215	-.215	0	%100
22	LV2	Z	.373	.373	0	%100
23	M33	X	-.217	-.217	0	%100
24	M33	Z	.377	.377	0	%100
25	M22A	X	-.217	-.217	0	%100
26	M22A	Z	.377	.377	0	%100
27	M23A	X	-.215	-.215	0	%100
28	M23A	Z	.373	.373	0	%100
29	M24	X	-.217	-.217	0	%100
30	M24	Z	.377	.377	0	%100
31	M25	X	0	0	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	0	0	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	0	0	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	-.051	-.051	0	%100
38	M28A	Z	.087	.087	0	%100
39	M29	X	-.051	-.051	0	%100
40	M29	Z	.087	.087	0	%100
41	M30	X	-.051	-.051	0	%100
42	M30	Z	.087	.087	0	%100
43	M31A	X	-.051	-.051	0	%100
44	M31A	Z	.087	.087	0	%100
45	M32A	X	-.202	-.202	0	%100
46	M32A	Z	.35	.35	0	%100
47	M33A	X	-.202	-.202	0	%100
48	M33A	Z	.35	.35	0	%100
49	MP1A	X	-.237	-.237	0	%100
50	MP1A	Z	.41	.41	0	%100
51	MP2A	X	-.237	-.237	0	%100
52	MP2A	Z	.41	.41	0	%100
53	MP3A	X	-.237	-.237	0	%100
54	MP3A	Z	.41	.41	0	%100
55	MP4A	X	-.237	-.237	0	%100
56	MP4A	Z	.41	.41	0	%100
57	MP1C	X	-.237	-.237	0	%100
58	MP1C	Z	.41	.41	0	%100
59	MP2C	X	-.237	-.237	0	%100
60	MP2C	Z	.41	.41	0	%100
61	MP3C	X	-.237	-.237	0	%100
62	MP3C	Z	.41	.41	0	%100
63	MP4C	X	-.237	-.237	0	%100
64	MP4C	Z	.41	.41	0	%100
65	MP1B	X	-.237	-.237	0	%100
66	MP1B	Z	.41	.41	0	%100
67	MP2B	X	-.237	-.237	0	%100
68	MP2B	Z	.41	.41	0	%100
69	MP3B	X	-.237	-.237	0	%100
70	MP3B	Z	.41	.41	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP4B	X	-.237	-.237	0	%100
72	MP4B	Z	.41	.41	0	%100
73	M59	X	-.194	-.194	0	%100
74	M59	Z	.335	.335	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	M1	X	-.38	-.38	0	%100
2	M1	Z	.219	.219	0	%100
3	M4	X	-.259	-.259	0	%100
4	M4	Z	.15	.15	0	%100
5	M8	X	-.331	-.331	0	%100
6	M8	Z	.191	.191	0	%100
7	M11	X	0	0	0	%100
8	M11	Z	0	0	0	%100
9	M12	X	-1.036	-1.036	0	%100
10	M12	Z	.598	.598	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	M21A	X	-.38	-.38	0	%100
14	M21A	Z	.219	.219	0	%100
15	M22	X	-.259	-.259	0	%100
16	M22	Z	.15	.15	0	%100
17	M23	X	-.331	-.331	0	%100
18	M23	Z	.191	.191	0	%100
19	LV1	X	-.126	-.126	0	%100
20	LV1	Z	.072	.072	0	%100
21	LV2	X	-.124	-.124	0	%100
22	LV2	Z	.072	.072	0	%100
23	M33	X	-.126	-.126	0	%100
24	M33	Z	.072	.072	0	%100
25	M22A	X	-.502	-.502	0	%100
26	M22A	Z	.29	.29	0	%100
27	M23A	X	-.497	-.497	0	%100
28	M23A	Z	.287	.287	0	%100
29	M24	X	-.502	-.502	0	%100
30	M24	Z	.29	.29	0	%100
31	M25	X	-.126	-.126	0	%100
32	M25	Z	.072	.072	0	%100
33	M26A	X	-.124	-.124	0	%100
34	M26A	Z	.072	.072	0	%100
35	M27A	X	-.126	-.126	0	%100
36	M27A	Z	.072	.072	0	%100
37	M28A	X	-.262	-.262	0	%100
38	M28A	Z	.152	.152	0	%100
39	M29	X	-.262	-.262	0	%100
40	M29	Z	.152	.152	0	%100
41	M30	X	0	0	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	0	0	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	-.262	-.262	0	%100
46	M32A	Z	.152	.152	0	%100
47	M33A	X	-.262	-.262	0	%100
48	M33A	Z	.152	.152	0	%100
49	MP1A	X	-.41	-.41	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, %]
29	M24	X	-.435	-.435	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	-.435	-.435	0	%100
32	M25	Z	0	0	0	%100
33	M26A	X	-.431	-.431	0	%100
34	M26A	Z	0	0	0	%100
35	M27A	X	-.435	-.435	0	%100
36	M27A	Z	0	0	0	%100
37	M28A	X	-.404	-.404	0	%100
38	M28A	Z	0	0	0	%100
39	M29	X	-.404	-.404	0	%100
40	M29	Z	0	0	0	%100
41	M30	X	-.101	-.101	0	%100
42	M30	Z	0	0	0	%100
43	M31A	X	-.101	-.101	0	%100
44	M31A	Z	0	0	0	%100
45	M32A	X	-.101	-.101	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	-.101	-.101	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	-.474	-.474	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-.474	-.474	0	%100
52	MP2A	Z	0	0	0	%100
53	MP3A	X	-.474	-.474	0	%100
54	MP3A	Z	0	0	0	%100
55	MP4A	X	-.474	-.474	0	%100
56	MP4A	Z	0	0	0	%100
57	MP1C	X	-.474	-.474	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	-.474	-.474	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3C	X	-.474	-.474	0	%100
62	MP3C	Z	0	0	0	%100
63	MP4C	X	-.474	-.474	0	%100
64	MP4C	Z	0	0	0	%100
65	MP1B	X	-.474	-.474	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	-.474	-.474	0	%100
68	MP2B	Z	0	0	0	%100
69	MP3B	X	-.474	-.474	0	%100
70	MP3B	Z	0	0	0	%100
71	MP4B	X	-.474	-.474	0	%100
72	MP4B	Z	0	0	0	%100
73	M59	X	-.387	-.387	0	%100
74	M59	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	M1	X	-.38	-.38	0	%100
2	M1	Z	-.219	-.219	0	%100
3	M4	X	-.259	-.259	0	%100
4	M4	Z	-.15	-.15	0	%100
5	M8	X	-.331	-.331	0	%100
6	M8	Z	-.191	-.191	0	%100
7	M11	X	-.38	-.38	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M11	Z	- .219	- .219	0	%100
9	M12	X	- .259	- .259	0	%100
10	M12	Z	- .15	- .15	0	%100
11	M13	X	- .331	- .331	0	%100
12	M13	Z	- .191	- .191	0	%100
13	M21A	X	0	0	0	%100
14	M21A	Z	0	0	0	%100
15	M22	X	-1.036	-1.036	0	%100
16	M22	Z	- .598	- .598	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	LV1	X	- .126	- .126	0	%100
20	LV1	Z	- .072	- .072	0	%100
21	LV2	X	- .124	- .124	0	%100
22	LV2	Z	- .072	- .072	0	%100
23	M33	X	- .126	- .126	0	%100
24	M33	Z	- .072	- .072	0	%100
25	M22A	X	- .126	- .126	0	%100
26	M22A	Z	- .072	- .072	0	%100
27	M23A	X	- .124	- .124	0	%100
28	M23A	Z	- .072	- .072	0	%100
29	M24	X	- .126	- .126	0	%100
30	M24	Z	- .072	- .072	0	%100
31	M25	X	- .502	- .502	0	%100
32	M25	Z	- .29	- .29	0	%100
33	M26A	X	- .497	- .497	0	%100
34	M26A	Z	- .287	- .287	0	%100
35	M27A	X	- .502	- .502	0	%100
36	M27A	Z	- .29	- .29	0	%100
37	M28A	X	- .262	- .262	0	%100
38	M28A	Z	- .152	- .152	0	%100
39	M29	X	- .262	- .262	0	%100
40	M29	Z	- .152	- .152	0	%100
41	M30	X	- .262	- .262	0	%100
42	M30	Z	- .152	- .152	0	%100
43	M31A	X	- .262	- .262	0	%100
44	M31A	Z	- .152	- .152	0	%100
45	M32A	X	0	0	0	%100
46	M32A	Z	0	0	0	%100
47	M33A	X	0	0	0	%100
48	M33A	Z	0	0	0	%100
49	MP1A	X	- .41	- .41	0	%100
50	MP1A	Z	- .237	- .237	0	%100
51	MP2A	X	- .41	- .41	0	%100
52	MP2A	Z	- .237	- .237	0	%100
53	MP3A	X	- .41	- .41	0	%100
54	MP3A	Z	- .237	- .237	0	%100
55	MP4A	X	- .41	- .41	0	%100
56	MP4A	Z	- .237	- .237	0	%100
57	MP1C	X	- .41	- .41	0	%100
58	MP1C	Z	- .237	- .237	0	%100
59	MP2C	X	- .41	- .41	0	%100
60	MP2C	Z	- .237	- .237	0	%100
61	MP3C	X	- .41	- .41	0	%100
62	MP3C	Z	- .237	- .237	0	%100
63	MP4C	X	- .41	- .41	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	MP4C	Z	-.237	-.237	0	%100
65	MP1B	X	-.41	-.41	0	%100
66	MP1B	Z	-.237	-.237	0	%100
67	MP2B	X	-.41	-.41	0	%100
68	MP2B	Z	-.237	-.237	0	%100
69	MP3B	X	-.41	-.41	0	%100
70	MP3B	Z	-.237	-.237	0	%100
71	MP4B	X	-.41	-.41	0	%100
72	MP4B	Z	-.237	-.237	0	%100
73	M59	X	-.335	-.335	0	%100
74	M59	Z	-.194	-.194	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	M1	X	-.073	-.073	0	%100
2	M1	Z	-.127	-.127	0	%100
3	M4	X	-.449	-.449	0	%100
4	M4	Z	-.777	-.777	0	%100
5	M8	X	-.064	-.064	0	%100
6	M8	Z	-.11	-.11	0	%100
7	M11	X	-.292	-.292	0	%100
8	M11	Z	-.506	-.506	0	%100
9	M12	X	0	0	0	%100
10	M12	Z	0	0	0	%100
11	M13	X	-.255	-.255	0	%100
12	M13	Z	-.442	-.442	0	%100
13	M21A	X	-.073	-.073	0	%100
14	M21A	Z	-.127	-.127	0	%100
15	M22	X	-.449	-.449	0	%100
16	M22	Z	-.777	-.777	0	%100
17	M23	X	-.064	-.064	0	%100
18	M23	Z	-.11	-.11	0	%100
19	LV1	X	-.217	-.217	0	%100
20	LV1	Z	-.377	-.377	0	%100
21	LV2	X	-.215	-.215	0	%100
22	LV2	Z	-.373	-.373	0	%100
23	M33	X	-.217	-.217	0	%100
24	M33	Z	-.377	-.377	0	%100
25	M22A	X	0	0	0	%100
26	M22A	Z	0	0	0	%100
27	M23A	X	0	0	0	%100
28	M23A	Z	0	0	0	%100
29	M24	X	0	0	0	%100
30	M24	Z	0	0	0	%100
31	M25	X	-.217	-.217	0	%100
32	M25	Z	-.377	-.377	0	%100
33	M26A	X	-.215	-.215	0	%100
34	M26A	Z	-.373	-.373	0	%100
35	M27A	X	-.217	-.217	0	%100
36	M27A	Z	-.377	-.377	0	%100
37	M28A	X	-.051	-.051	0	%100
38	M28A	Z	-.087	-.087	0	%100
39	M29	X	-.051	-.051	0	%100
40	M29	Z	-.087	-.087	0	%100
41	M30	X	-.202	-.202	0	%100
42	M30	Z	-.35	-.35	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,%]
43	M31A	X	- .202	- .202	0	%100
44	M31A	Z	- .35	- .35	0	%100
45	M32A	X	- .051	- .051	0	%100
46	M32A	Z	- .087	- .087	0	%100
47	M33A	X	- .051	- .051	0	%100
48	M33A	Z	- .087	- .087	0	%100
49	MP1A	X	- .237	- .237	0	%100
50	MP1A	Z	- .41	- .41	0	%100
51	MP2A	X	- .237	- .237	0	%100
52	MP2A	Z	- .41	- .41	0	%100
53	MP3A	X	- .237	- .237	0	%100
54	MP3A	Z	- .41	- .41	0	%100
55	MP4A	X	- .237	- .237	0	%100
56	MP4A	Z	- .41	- .41	0	%100
57	MP1C	X	- .237	- .237	0	%100
58	MP1C	Z	- .41	- .41	0	%100
59	MP2C	X	- .237	- .237	0	%100
60	MP2C	Z	- .41	- .41	0	%100
61	MP3C	X	- .237	- .237	0	%100
62	MP3C	Z	- .41	- .41	0	%100
63	MP4C	X	- .237	- .237	0	%100
64	MP4C	Z	- .41	- .41	0	%100
65	MP1B	X	- .237	- .237	0	%100
66	MP1B	Z	- .41	- .41	0	%100
67	MP2B	X	- .237	- .237	0	%100
68	MP2B	Z	- .41	- .41	0	%100
69	MP3B	X	- .237	- .237	0	%100
70	MP3B	Z	- .41	- .41	0	%100
71	MP4B	X	- .237	- .237	0	%100
72	MP4B	Z	- .41	- .41	0	%100
73	M59	X	- .194	- .194	0	%100
74	M59	Z	- .335	- .335	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M11	Y	0	-45.1	2.1	2.73
2	M11	Y	-45.1	-48.165	2.73	3.36
3	M11	Y	-48.165	-54.824	3.36	3.99
4	M11	Y	-54.824	-51.759	3.99	4.62
5	M11	Y	-51.759	0	4.62	5.25
6	M21A	Y	-2.256e-15	-45.1	2.1	2.73
7	M21A	Y	-45.1	-48.165	2.73	3.36
8	M21A	Y	-48.165	-54.824	3.36	3.99
9	M21A	Y	-54.824	-51.759	3.99	4.62
10	M21A	Y	-51.759	-2.256e-15	4.62	5.25
11	M1	Y	2.256e-15	-45.1	2.1	2.73
12	M1	Y	-45.1	-48.165	2.73	3.36
13	M1	Y	-48.165	-54.824	3.36	3.99
14	M1	Y	-54.824	-51.759	3.99	4.62
15	M1	Y	-51.759	2.256e-15	4.62	5.25

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M11	Y	-4.511e-15	-55.122	2.1	2.73
2	M11	Y	-55.122	-58.869	2.73	3.36

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
3	M11	Y	-58.869	-67.008	3.36	3.99
4	M11	Y	-67.008	-63.261	3.99	4.62
5	M11	Y	-63.261	-4.511e-15	4.62	5.25
6	M21A	Y	4.511e-15	-55.122	2.1	2.73
7	M21A	Y	-55.122	-58.869	2.73	3.36
8	M21A	Y	-58.869	-67.008	3.36	3.99
9	M21A	Y	-67.008	-63.261	3.99	4.62
10	M21A	Y	-63.261	4.511e-15	4.62	5.25
11	M1	Y	4.511e-15	-55.122	2.1	2.73
12	M1	Y	-55.122	-58.869	2.73	3.36
13	M1	Y	-58.869	-67.008	3.36	3.99
14	M1	Y	-67.008	-63.261	3.99	4.62
15	M1	Y	-63.261	4.511e-15	4.62	5.25

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M11	Y	-.347	-.207	0	1.05
2	M11	Y	-.207	-.247	1.05	2.1
3	M11	Y	-.247	-.292	2.1	3.15
4	M11	Y	-.292	-.132	3.15	4.2
5	M11	Y	-.132	.003	4.2	5.25
6	M21A	Y	-.347	-.207	0	1.05
7	M21A	Y	-.207	-.247	1.05	2.1
8	M21A	Y	-.247	-.292	2.1	3.15
9	M21A	Y	-.292	-.132	3.15	4.2
10	M21A	Y	-.132	.003	4.2	5.25
11	LV1	Y	-.113	-.113	2.415	4.314
12	LV2	Y	-.074	-.204	0	.563
13	LV2	Y	-.204	-.27	.563	1.125
14	LV2	Y	-.27	-.27	1.125	1.688
15	LV2	Y	-.27	-.27	1.688	2.25
16	LV2	Y	-.27	-.27	2.25	2.813
17	LV2	Y	-.27	-.27	2.813	3.375
18	LV2	Y	-.27	-.204	3.375	3.938
19	LV2	Y	-.204	-.074	3.938	4.5
20	M33	Y	-.113	-.113	.311	2.21
21	M1	Y	-.347	-.207	0	1.05
22	M1	Y	-.207	-.247	1.05	2.1
23	M1	Y	-.247	-.292	2.1	3.15
24	M1	Y	-.292	-.132	3.15	4.2
25	M1	Y	-.132	.003	4.2	5.25
26	M25	Y	-.113	-.113	2.415	4.314
27	M26A	Y	-.074	-.204	0	.562
28	M26A	Y	-.204	-.27	.562	1.125
29	M26A	Y	-.27	-.27	1.125	1.687
30	M26A	Y	-.27	-.27	1.687	2.25
31	M26A	Y	-.27	-.27	2.25	2.812
32	M26A	Y	-.27	-.27	2.812	3.375
33	M26A	Y	-.27	-.204	3.375	3.937
34	M26A	Y	-.204	-.074	3.937	4.5
35	M27A	Y	-.113	-.113	.311	2.21
36	M22A	Y	-.113	-.113	2.415	4.314
37	M23A	Y	-.074	-.204	0	.562
38	M23A	Y	-.204	-.27	.562	1.125
39	M23A	Y	-.27	-.27	1.125	1.687
40	M23A	Y	-.27	-.27	1.687	2.25

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	M23A	Y	- .27	- .27	2.25	2.812
42	M23A	Y	- .27	- .27	2.812	3.375
43	M23A	Y	- .27	- .204	3.375	3.937
44	M23A	Y	- .204	- .074	3.937	4.5
45	M24	Y	- .113	- .113	.311	2.21

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M11	Z	- .868	- .519	0	1.05
2	M11	Z	- .519	- .619	1.05	2.1
3	M11	Z	- .619	- .73	2.1	3.15
4	M11	Z	- .73	- .33	3.15	4.2
5	M11	Z	- .33	.007	4.2	5.25
6	M21A	Z	- .868	- .519	0	1.05
7	M21A	Z	- .519	- .619	1.05	2.1
8	M21A	Z	- .619	- .73	2.1	3.15
9	M21A	Z	- .73	- .33	3.15	4.2
10	M21A	Z	- .33	.007	4.2	5.25
11	LV1	Z	- .282	- .282	2.415	4.314
12	LV2	Z	- .184	- .511	0	.563
13	LV2	Z	- .511	- .675	.563	1.125
14	LV2	Z	- .675	- .675	1.125	1.688
15	LV2	Z	- .675	- .675	1.688	2.25
16	LV2	Z	- .675	- .675	2.25	2.813
17	LV2	Z	- .675	- .675	2.813	3.375
18	LV2	Z	- .675	- .511	3.375	3.938
19	LV2	Z	- .511	- .184	3.938	4.5
20	M33	Z	- .282	- .282	.311	2.21
21	M1	Z	- .868	- .519	0	1.05
22	M1	Z	- .519	- .619	1.05	2.1
23	M1	Z	- .619	- .73	2.1	3.15
24	M1	Z	- .73	- .33	3.15	4.2
25	M1	Z	- .33	.007	4.2	5.25
26	M25	Z	- .282	- .282	2.415	4.314
27	M26A	Z	- .184	- .511	0	.562
28	M26A	Z	- .511	- .675	.562	1.125
29	M26A	Z	- .675	- .675	1.125	1.687
30	M26A	Z	- .675	- .675	1.687	2.25
31	M26A	Z	- .675	- .675	2.25	2.812
32	M26A	Z	- .675	- .675	2.812	3.375
33	M26A	Z	- .675	- .511	3.375	3.937
34	M26A	Z	- .511	- .184	3.937	4.5
35	M27A	Z	- .282	- .282	.311	2.21
36	M22A	Z	- .282	- .282	2.415	4.314
37	M23A	Z	- .184	- .511	0	.562
38	M23A	Z	- .511	- .675	.562	1.125
39	M23A	Z	- .675	- .675	1.125	1.687
40	M23A	Z	- .675	- .675	1.687	2.25
41	M23A	Z	- .675	- .675	2.25	2.812
42	M23A	Z	- .675	- .675	2.812	3.375
43	M23A	Z	- .675	- .511	3.375	3.937
44	M23A	Z	- .511	- .184	3.937	4.5
45	M24	Z	- .282	- .282	.311	2.21

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
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Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M11	X	.868	.519	0	1.05
2	M11	X	.519	.619	1.05	2.1
3	M11	X	.619	.73	2.1	3.15
4	M11	X	.73	.33	3.15	4.2
5	M11	X	.33	-.007	4.2	5.25
6	M21A	X	.868	.519	0	1.05
7	M21A	X	.519	.619	1.05	2.1
8	M21A	X	.619	.73	2.1	3.15
9	M21A	X	.73	.33	3.15	4.2
10	M21A	X	.33	-.007	4.2	5.25
11	LV1	X	.282	.282	2.415	4.314
12	LV2	X	.184	.511	0	.563
13	LV2	X	.511	.675	.563	1.125
14	LV2	X	.675	.675	1.125	1.688
15	LV2	X	.675	.675	1.688	2.25
16	LV2	X	.675	.675	2.25	2.813
17	LV2	X	.675	.675	2.813	3.375
18	LV2	X	.675	.511	3.375	3.938
19	LV2	X	.511	.184	3.938	4.5
20	M33	X	.282	.282	.311	2.21
21	M1	X	.868	.519	0	1.05
22	M1	X	.519	.619	1.05	2.1
23	M1	X	.619	.73	2.1	3.15
24	M1	X	.73	.33	3.15	4.2
25	M1	X	.33	-.007	4.2	5.25
26	M25	X	.282	.282	2.415	4.314
27	M26A	X	.184	.511	0	.562
28	M26A	X	.511	.675	.562	1.125
29	M26A	X	.675	.675	1.125	1.687
30	M26A	X	.675	.675	1.687	2.25
31	M26A	X	.675	.675	2.25	2.812
32	M26A	X	.675	.675	2.812	3.375
33	M26A	X	.675	.511	3.375	3.937
34	M26A	X	.511	.184	3.937	4.5
35	M27A	X	.282	.282	.311	2.21
36	M22A	X	.282	.282	2.415	4.314
37	M23A	X	.184	.511	0	.562
38	M23A	X	.511	.675	.562	1.125
39	M23A	X	.675	.675	1.125	1.687
40	M23A	X	.675	.675	1.687	2.25
41	M23A	X	.675	.675	2.25	2.812
42	M23A	X	.675	.675	2.812	3.375
43	M23A	X	.675	.511	3.375	3.937
44	M23A	X	.511	.184	3.937	4.5
45	M24	X	.282	.282	.311	2.21

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N34	N66	N61	Y	A-B	-.009
2	N21	N8	N71	N61	Y	A-B	-.009
3	N34	N8	N71	N66	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
--	---------	---------	---------	---------	-----------	--------------	----------------

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N34	N66	N61	Y	A-B	-.011
2	N21	N8	N71	N61	Y	A-B	-.011
3	N34	N8	N71	N66	Y	A-B	-.011

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N34	N66	N61	Y	Two Way	-.000183
2	N21	N8	N71	N61	Y	Two Way	-.000183
3	N34	N8	N71	N66	Y	Two Way	-.000183

Member Area Loads (BLC 85 : Structure Eh (0 Deg))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N34	N66	N61	Z	Two Way	-.000458
2	N21	N8	N71	N61	Z	Two Way	-.000458
3	N34	N8	N71	N66	Z	Two Way	-.000458

Member Area Loads (BLC 86 : Structure Eh (90 Deg))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N34	N66	N61	X	Two Way	.000458
2	N21	N8	N71	N61	X	Two Way	.000458
3	N34	N8	N71	N66	X	Two Way	.000458

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	N6	max	501.1	10	1782.651	13	-3265.001	64	4.673	13	.789	4	.158	4
2		min	-499.397	4	625.582	70	-10232.412	19	1.12	43	-.786	10	-.159	10
3	N19	max	-2824.931	72	1935.509	21	5123.932	14	-.614	3	.843	12	-1.116	3
4		min	-8881.442	15	662.337	66	1622.814	71	-2.356	20	-.841	6	-4.154	21
5	N32	max	8860.284	23	1782.695	17	5131.589	13	-.689	11	.785	8	4.881	29
6		min	2828.202	68	625.59	74	1623.743	69	-2.823	29	-.782	2	1.164	11
7	Totals:	max	2219.883	10	5426.508	21	2248.099	1						
8		min	-2219.886	4	1948.361	66	-2248.102	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	M1	HSS3X3X5	.358	1.422	14	.173	1.367	y	14	96947.7...	121716	10.005	10.005	10.005	1...	H1-1b	
2	M4	PL3/4x6	.600	.395	20	.420	.395	y	15	131794...	145800	2.278	18.225	18.225	1...	H1-1b	
3	M8	HSS3X3X5	.517	0	15	.208	2.257	y	13	111049...	121716	10.005	10.005	10.005	2...	H1-1b	
4	M11	HSS3X3X5	.358	1.422	22	.173	1.367	y	22	96947.7...	121716	10.005	10.005	10.005	1...	H1-1b	
5	M12	PL3/4x6	.599	.395	16	.464	.387	y	47	131795...	145800	2.278	18.225	18.225	1...	H1-1b	
6	M13	HSS3X3X5	.526	0	23	.207	2.257	y	21	111049...	121716	10.005	10.005	10.005	2...	H1-1b	
7	M21A	HSS3X3X5	.358	1.422	18	.176	1.367	y	31	96947.7...	121716	10.005	10.005	10.005	1...	H1-1b	
8	M22	PL3/4x6	.600	.395	24	.441	.395	y	25	131794...	145800	2.278	18.225	18.225	1...	H1-1b	
9	M23	HSS3X3X5	.598	0	31	.208	2.257	y	17	111049...	121716	10.005	10.005	10.005	1...	H1-1b	
10	LV1	PIPE 3.0	.288	0	23	.125	0		22	58150.23	65205	5.749	5.749	5.749	1...	H1-1b	
11	LV2	PIPE 3.0	.180	0	23	.054	0		34	58506.3...	65205	5.749	5.749	5.749	1...	H1-1b	
12	M33	PIPE 3.0	.268	4.625	24	.138	4.625		19	58150.2...	65205	5.749	5.749	5.749	1...	H1-1b	
13	M22A	PIPE 3.0	.288	0	19	.125	0		18	58150.2...	65205	5.749	5.749	5.749	1...	H1-1b	
14	M23A	PIPE 3.0	.194	0	31	.039	0		42	58506.3...	65205	5.749	5.749	5.749	1...	H1-1b	
15	M24	PIPE 3.0	.268	4.625	20	.138	4.625		15	58150.2...	65205	5.749	5.749	5.749	1...	H1-1b	
16	M25	PIPE 3.0	.288	0	15	.125	0		14	58150.2...	65205	5.749	5.749	5.749	1...	H1-1b	
17	M26A	PIPE 3.0	.190	4.5	42	.028	4.5		42	58506.3...	65205	5.749	5.749	5.749	1...	H1-1b	

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
18	M27A	PIPE 3.0	.268	4.625	16	.138	4.625	23	58150.2...	65205	5.749	5.749	1... H1-1b
19	M28A	L2.5x1.5x4	.005	2.838	6	.063	2.838	z 23	16966.31	30682.8	.461	1.597	1... H2-1*
20	M29	L2.5x1.5x4	.006	1.005	7	.051	0	z 15	16966.31	30682.8	.461	1.597	2... H2-1*
21	M30	L2.5x1.5x4	.005	2.838	2	.062	2.838	z 19	16966.31	30682.8	.461	1.597	1... H2-1*
22	M31A	L2.5x1.5x4	.006	2.513	3	.051	0	z 23	16966.31	30682.8	.461	1.597	2... H2-1*
23	M32A	L2.5x1.5x4	.005	2.838	10	.062	2.838	z 15	16966.31	30682.8	.461	1.597	1... H2-1*
24	M33A	L2.5x1.5x4	.006	1.005	11	.066	0	z 43	16966.31	30682.8	.461	1.597	2... H2-1*
25	MP1A	PIPE 2.0	.395	3.354	1	.038	3.427	6	17855.0...	32130	1.872	1.872	1... H1-1b
26	MP2A	PIPE 2.0	.024	3.427	7	.003	3.427	7	17855.0...	32130	1.872	1.872	1 H1-1b
27	MP3A	PIPE 2.0	.072	3.354	7	.015	3.427	8	17855.0...	32130	1.872	1.872	1... H1-1b
28	MP4A	PIPE 2.0	.024	3.427	8	.003	3.427	8	17855.0...	32130	1.872	1.872	1... H1-1b
29	MP1C	PIPE 2.0	.395	3.354	9	.038	3.427	2	17855.0...	32130	1.872	1.872	2... H1-1b
30	MP2C	PIPE 2.0	.024	3.427	3	.003	3.427	3	17855.0...	32130	1.872	1.872	1... H1-1b
31	MP3C	PIPE 2.0	.072	3.354	3	.015	3.427	4	17855.0...	32130	1.872	1.872	2... H1-1b
32	MP4C	PIPE 2.0	.024	3.427	4	.003	3.427	4	17855.0...	32130	1.872	1.872	1... H1-1b
33	MP1B	PIPE 2.0	.395	3.354	5	.038	3.427	10	17855.0...	32130	1.872	1.872	2... H1-1b
34	MP2B	PIPE 2.0	.024	3.427	11	.003	3.427	11	17855.0...	32130	1.872	1.872	1... H1-1b
35	MP3B	PIPE 2.0	.072	3.354	11	.015	3.427	12	17855.0...	32130	1.872	1.872	2.7 H1-1b
36	MP4B	PIPE 2.0	.024	3.427	12	.003	3.427	12	17855.0...	32130	1.872	1.872	1... H1-1b
37	M59	PIPE 2.0	.074	2.5	7	.014	2.5	7	28843.4...	32130	1.872	1.872	1... H1-1b

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

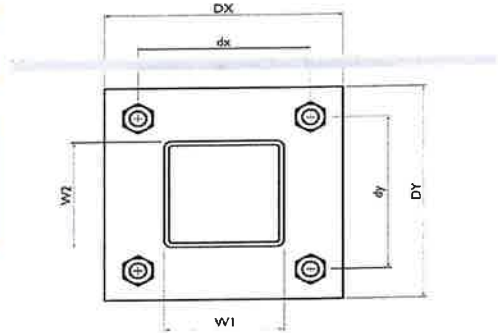
Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:
 d_x (in) (Delta X of typ. bolt config. sketch):
 d_y (in) (Delta Y of typ. bolt config. sketch):
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength / bolt (kips):
 Required Shear Strength / bolt (kips):
 Tensile Capacity / bolt (kips):
 Shear Capacity / bolt (kips):
 Bolt Overall Utilization:

4
6
6
A325N
0.625
4.1
0.4
20.7
12.4
19.8%

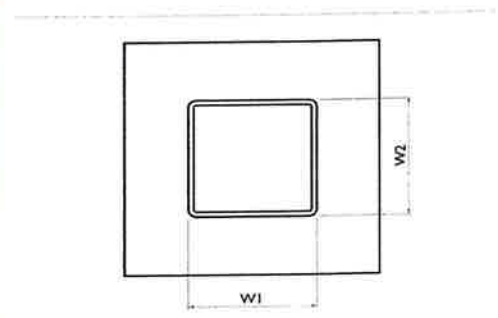


Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:
 Weld Stiffener Configuration:
 Plate Width, D_x (in):
 Plate Height, D_y (in):
 W_1 (in):
 W_2 (in):
 Member Thickness (in):
 Stiffener location a_1 (in):
 Stiffener location b_1 (in):
 Stiffener location a_2 (in):
 Stiffener location b_2 (in):
 F_y (ksi, plate):
 Plate Thickness (in):
 Length of Yield Line, L_y (in):
 Bolt Eccentricity, e (in):
 M_u (kip-in):
 $\Phi * M_n$ (kip-in):
 Plate Bending Utilization:

Rect Tube
No Stiffeners
8
8
3
3
0.3125
36
0.5
6.48
2.41
9.87
13.13
75.2%



VzW
SMART Tool®
Vendor

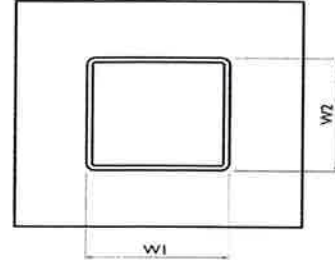
Client: Verizon Wireless Date: 11/8/2023
 Site Name: COLEBROOK CT
 MDG #: 5000243879
 Fuze ID #: 16272050 Page: 2

Version 1.01

Tower Connection Weld Checks

Weld Shape:
 Weld Stiffener Configuration:
 Stiffener Notch Length, n (in):
 Weld Size (1/16 in):
 W1 (in):
 W2 (in):
 Weld Total Length (In):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in)
 c_y (in)
 Required combined strength (kip/in):
 Weld Capacity (kip/in):
 Weld Utilization:

Yes
Rectangle
None
4
3
3
12.00
12.00
12.00
36.00
1.8125
1.8125
3.44
5.57
61.9%



ATTACHMENT 5

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Owner

382 COLEBROOK LLC
202 HANG DOG LANE
WETHERSFIELD, CT 06109

Valuation

Columns

Valuation

Assessed Year	2020	2019
Appraised Building Value	\$188,000.00	\$244,000.00
Appraised XF/OB Value	\$0.00	\$355,400.00
Appraised Land Value	\$168,600.00	\$184,900.00
Appraised Total Value	\$356,600.00	\$784,300.00
Assessed Building Value	\$131,600.00	\$170,800.00
Assessed XF/OB Value	\$0.00	\$248,800.00
Assessed Land Value	\$118,100.00	\$129,400.00
Assessed Total Value	\$249,700.00	\$549,000.00

Land

Building Number1

Land Use 2-2 - Comm Bldg.

Land Units1 AC

Value 85,500

Building Number1 -

Land Use 1-3 - 1 Family

Land Units1 AC

Value 45,100

Building Number1

Land Use 1-2 - Acreage

Land Units16.9 AC

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

TOTAL NO.
of Pieces Received at Post Office™

Affix Stamp Here
Postmark with Date of Receipt.

Postmaster, per (name of receiving employee)

[Handwritten Signature]

quodrent
CORRECTION
IMI
\$003.19⁰
01/17/2024 ZIP 06101
043M32206613
US POSTAGE

USPS® Tracking Number
Firm-specific Identifier

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

Postage

Fee

Special Handling

Parcel Airlift

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Bradley Bremer, First Selectman Town of Colebrook 562 Colebrook Road Colebrook, CT 06021				
2.	Alan Drapach, Land Use Enforcement Officer Town of Colebrook 562 Colebrook Road Colebrook, CT 06021				
3.	382 Colebrook LLC 202 Hang Dog Lane Wethersfield, CT 06109				
4.					
5.					
6.					