Robinson+Cole

KENNETH C. BALDWIN

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Hartford, CT 06103-3597
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Also admitted in Massachusetts
and New York

September 30, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
165 Durham Road, Wallingford, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above referenced property (the "Property"). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground near the base of the tower. The tower was approved by the Town of Wallingford ("Town") in December of 1999. Cellco's use of the tower was approved by the Siting Council ("Council") in March of 2001 (EM-VER-148-010216). A copy of the Town approval and EM-VER-148-010216 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) Samsung MT6407-77A antennas, and six (6) MX06FRO660-02 antennas on the existing antenna platform. Cellco also intends to install six (6) remote radio heads ("RRHs") behind its antennas. A set of project plans showing Cellco's proposed facility modifications and new antennas and RRH specifications are included in Attachment 2.

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

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

1. The proposed modifications will not result in an increase in the height of the existing water tank.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
William W. Dickinson, Jr., Wallingford Mayor
Kevin Pagini, Wallingford Town Planner
Tilcon Minerals Inc., Property Owner
Alex Tyurin

ATTACHMENT 1

CT 1698 G

Zoning

Town of Wallingford, Connecticut

WILLIAM E. AUSTIN
CHAIRMAN-PLANNING & ZONING COMMISSION
LINDA A. BUSH, AICP
TOWN PLANNER
WALLINGFORD TOWN HALL
45 SOUTH MAIN STREET
WALLINGFORD, CT 06492
TELEPHONE (203) 294-2090

CERTIFIED LETTER **#Z 483 770 392**

December 16, 1999

Ms. Esther McNany
SBA, Inc./Sprint PCS
125 Shaw Street
New London, CT 06335

RE: Special Permit #418-99
1605 Durham Road

Dear Ms. McNany:

Enclosed is a Legal Notice of Action taken by the Planning and Zoning Commission at their meeting held on December 13, 1999, on the above-referenced application.

Your application for:

A 165 ft. telecommunications tower

has been approved with the conditions listed on the enclosed Zoning Permit. A Special Permit is also enclosed.

A $10.00 fee is required for the filing of each Special Permit on the Land Records. Please make your check payable to the "Town Clerk" and forward to this office. Also forward to this office two (2) copies of your final plans.

Should you have any questions regarding this matter, please contact this office.

Sincerely,

Thomas M. Talbot
Assistant Town Planner

Enclosures
TMT:ss

Town of Wallingford, Connecticut

418-99

ZONING PERMIT

DATE: December 16, 1999

ISSUED TO:

NAME SBA, Inc./Sprint PCS

ADDRESS 125 Shaw Street - New London, CT 06335

ISSUED FOR: 165 ft. telecommunications tower

LOCATION OF PREMISES: 1605 Durham Road

CONDITIONS OF PERMIT:

1. Comments of the Assistant Manager of the Electric Division, dated 11/24/99.
2. *Posting of $1,000.00 sedimentation and erosion control bond.*
3. Color of proposed facility to be battleship gray.
4. No landscaping required as per recommendation of the Town Planner.
5. Telecommunications tower to be constructed to support at least four (4) other cell locations.
6.
7.
8.
9.
10.
11.
12.

ALL WORK CONNECTED WITH A SITE PLAN APPROVAL SHALL BE COMPLETED WITHIN FIVE YEARS AFTER SAID APPROVAL.

WALLINGFORD PLANNING AND ZONING COMMISSION

BY: _____
Assistant Town Planner

* BUILDING PERMIT WILL NOT BE ISSUED UNTIL CONDITIONS ARE MET.

March 20, 2001

Sandy M. Carter
Verizon Wireless
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492

RE: **EM-VER-148-010216** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 1605 Durham Road, Wallingford, Connecticut.

Dear Ms. Carter:

At a public meeting held on March 15, 2001, 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 February 16, 2001. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable William W. Dickinson, Jr., Mayor, Town of Wallingford
Ms. Linda Bush, Town Planner, Town of Wallingford
Esther McNany, SBA, Inc.
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Ronald C. Clark, Nextel Communications, Inc.
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Peter W. van Wilgen, SNET Cellular LLC

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY UPGRADE

WALLINGFORD 2 CT

1605 DURHAM ROAD

WALLINGFORD, CT 06492

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE TIA/EIA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
2. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, AND ALL TRADES AS APPLICABLE PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
7. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
8. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
13. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO "EXTRA" WILL BE ALLOWED FOR MISSED ITEMS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB- CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.

SITE DIRECTIONS

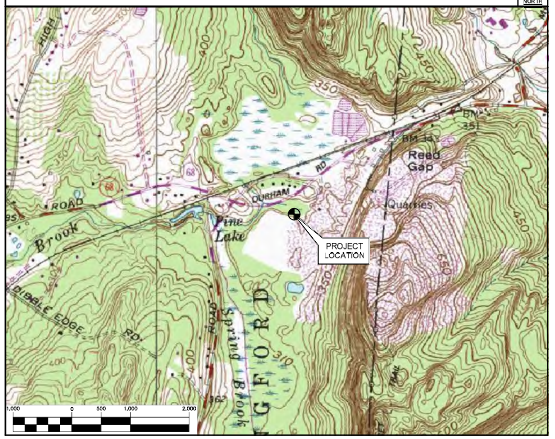
FROM: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT

TO: 1605 DURHAM ROAD,
WALLINGFORD, CT 06492

1.	START OUT GOING NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD.	0.18 MI
2.	TURN RIGHT ONTO BARNES INDUSTRIAL RD.	0.11 MI
3.	TAKE THE 1ST LEFT ONTO CT-68.	2.75 MI
4.	TURN SLIGHT LEFT ONTO DURHAM RD/CT-68.	1.17 MI
5.	TURN 1605 DURHAM RD, WALLINGFORD, CT 06492-2675, 1605 DURHAM RD IS ON THE RIGHT.	

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

1. THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:

A. AT THE EXISTING MONOPOLE MOUNTED ANTENNA SECTORS:

- REMOVE (3) EXISTING ANTEL – BXA-70063-6CF ANTENNAS.
- REMOVE (3) EXISTING ANTEL – BXA-171063-8BF ANTENNAS.
- REMOVE (6) EXISTING RFS TMAs.
- REMOVE (2) EXISTING 1-5/8" COAXIAL CABLES.
- RETAIN (4) EXISTING ANDREW – DB846F65ZAXY ANTENNAS.
- RETAIN (2) EXISTING ANTEL – LPA-80080/4CF ANTENNAS.
- RETAIN (6) EXISTING 1-5/8" CDMA COAXIAL CABLES.
- RETAIN (4) EXISTING 1-5/8" SPARE COAXIAL CABLES.
- INSTALL (6) JMA – MX06FRO660-02 ANTENNAS.
- INSTALL (3) SAMSUNG – MT6407-77A ALL-IN-ONE ANTENNA/ RRUs.
- INSTALL (3) SAMSUNG – B2/B66A RRH-BR049 RRUs.
- INSTALL (3) SAMSUNG – B5/B13 RRH-BR04C RRUs.
- INSTALL (3) JMA – 91900314-02 ANTENNA MOUNTS.
- INSTALL (1) OVP-12 BOX.
- INSTALL (1) 12x24 HYBRIFLEX CABLE.

B. AT THE EXISTING VERIZON WIRELESS EQUIPMENT SHELTER:

- REMOVE (3) EXISTING NOKIA RRUs.

PROJECT INFORMATION

SITE NAME:	WALLINGFORD 2 CT
SITE ADDRESS:	1605 DURHAM ROAD, WALLINGFORD, CT 06492
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
CONTACT PERSON:	WALTER CHARCZNSKI (CONSTRUCTION MANAGER) VERIZON WIRELESS (860) 306-1806
ENGINEER:	CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT. 06405 (203) 488-0580
PROJECT COORDINATES:	LATITUDE: 41°-28'-10.3692"N LONGITUDE: 72°-44'-31.8408"W COORDINATES BASED ON VERIZON WIRELESS RFDS, DATED APRIL 29, 2021.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
N-1	NOTES AND SPECIFICATIONS	1
B-1	RF BILL OF MATERIALS	1
C-1	COMPOUND PLAN AND ELEVATION	1
C-2	ANTENNA SECTOR CONFIGURATION DETAILS	1
C-3	RF DETAILS	1
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	1

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	09/24/21	ANC	DMD	CONSTRUCTION DRAWINGS – REVISED FOR SAR REFERENCE UPDATE
A	09/09/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION
	08/20/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

WALLINGFORD 2 CT

1605 DURHAM ROAD,
WALLINGFORD, CT 06492

DATE: 08/20/21
SCALE: AS NOTED
JOB NO. 21007.15

TITLE SHEET

T-1

Sheet No. 1 of 7

NOTES AND SPECIFICATIONS

DESIGN BASIS:

GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2018 CT STATE BUILDING CODE AND AMENDMENTS.

1. DESIGN CRITERIA:

- RISK CATEGORY: II (BASED ON TABLE 1604.5 OF THE 2015 IBC)
- NOMINAL DESIGN SPEED (TOWER): 97 MPH (Vasd) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
2. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
3. BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
4. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
6. ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
7. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND BARRICADES AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SAFETY.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING SITE OPERATIONS, COORDINATE WORK WITH NORTHEAST UTILITIES
10. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
11. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	08/20/21	ANC	DMD	CONSTRUCTION DRAWINGS – REVISED FOR SAR REFERENCE UPDATE
1	09/19/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION
0	09/14/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
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Cellco Partnership d/b/a Verizon Wireless

WALLINGFORD 2 CT

1605 DURHAM ROAD,
WALLINGFORD, CT 06492

DATE: 08/20/21
SCALE: AS NOTED
JOB NO. 21007.15

NOTES AND SPECIFICATIONS

N-1

Sheet No. 2 of 7

PLUMBING DIAGRAM NOTES:

1. PORTS 1 & 2 ARE FOR LOW BAND (698–896 MHz).
2. PORTS 3, 4, 5 & 5 ARE FOR HIGH BAND (1695–2360 MHz).
3. SMART BIAS TEE (SBT) IS THROUGH ANTENNA PORTS 1 & 3 (1 FOR LOW BAND AND 3 FOR HIGH BAND).
4. AISG CABLE IS ONLY NEEDED WHEN DRAWN IN THE DIAGRAMS ABOVE. IF IT IS NOT DRAWN THEN SBT IS ENOUGH TO CONTROL ALL RET MOTORS.
5. NOT ALL SBT PORTS ARE NEEDED TO CONTROL RET. ONLY GREEN PORT CONNECTION TO GREEN PORT WILL CONTROL RET.

RET DC SIGNAL PASS FOR RET (PORT THAT WILL CONTROL RET)

PLUMBING DIAGRAM COMMENTS:

A. DIAGRAMS SHOW ANTENNA PORT CONFIGURATIONS AS VIEWED FROM BELOW ANTENNAS.

B. ANTENNA POSITIONS ARE INDICATED AS VIEWED FROM IN FRONT OF ANTENNAS.

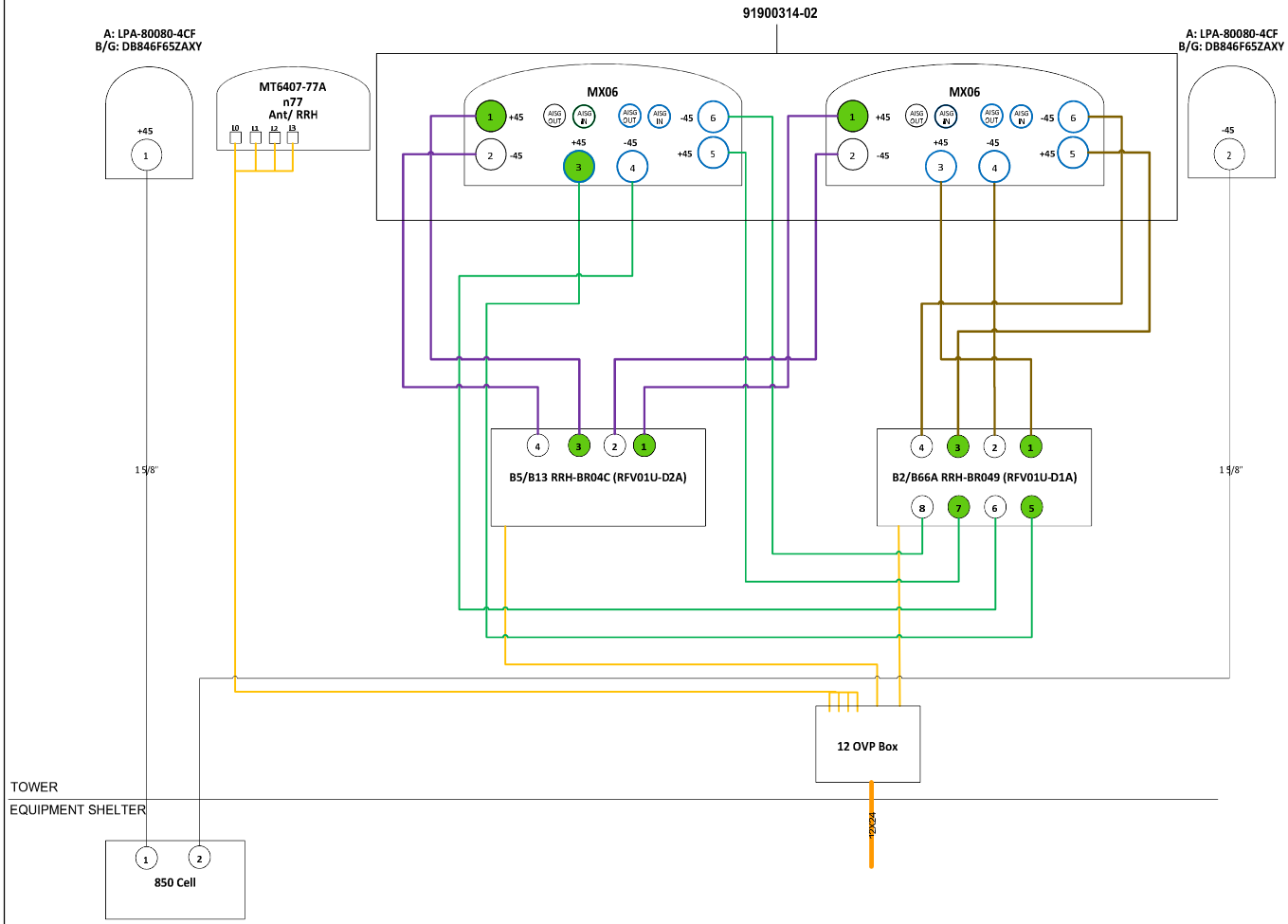
C. CAP AND WEATHERPROOF UNUSED ANTENNA PORTS.

D. ALL PLUMBING DIAGRAM COLORS ARE IRRELEVANT EXCEPT FOR AISG AND HYBRIFLEX CABLE. (FOR THE COAX COLORS, FOLLOW COAX COLORS GUIDE ABOVE)

DC SIGNAL CAPABLE PORT

AISG CABLE

RET DC SIGNAL PASS FOR RET (PORT THAT WILL CONTROL RET)



NOTES:

1. INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
2. THIS B.O.M. DRAWING IS BASED OFF FACILITY UPGRADE DESIGN DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.1 DATED: 09.24.21), & VERIZON WIRELESS RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 04.29.21).

BILL OF MATERIALS

TECHNOLOGY	QUANTITY	ANTENNA
LTE 700	6	JMA ANTENNA MODEL: MX06FRO660-02
LTE 850		
LTE PCS 1900		
LTE AWS 2100		
5G	3	SAMSUNG ANTENNA MODEL: MT6407-77A

CABLES	QUANTITY	LENGTH	COMMENTS
HYBRID CABLE	1	±175	12X24 HYBRIFLEX LI

RADIOS	QUANTITY	COMMENTS
LTE 700	3	SAMSUNG MODEL: B5/B13 RRH-BR04C
LTE 850		
LTE PCS 1900	3	SAMSUNG MODEL: B2/B66A RRH-BR049
LTE AWS 2100		
5G	3	INTEGRATED INTO MT6407-77A ANTENNA

DIPLEXERS	QUANTITY	COMMENTS
–	0	–

OVP BOXES	QUANTITY	COMMENTS
RAYCAP OVP-12 BOX	1	RAYCAP MODEL: DB-C1-12C-24AB-0Z

ANTENNA MOUNT	QUANTITY	COMMENTS
JMA ANTENNA MOUNT	3	JMA MODEL: 91900314-02

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	09/24/21	ANC	DMD	CONSTRUCTION DRAWINGS – REVISED FOR SAR REFERENCE UPDATE
0	09/09/21	ANC	DMD	CONSTRUCTION DRAWINGS – ISSUED FOR CONSTRUCTION
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PROFESSIONAL ENGINEER SEAL

verizon

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless

WALLINGFORD 2 CT

1605 DURHAM ROAD,
WALLINGFORD, CT 06492

DATE: 08/20/21
SCALE: AS NOTED
JOB NO. 21007.15

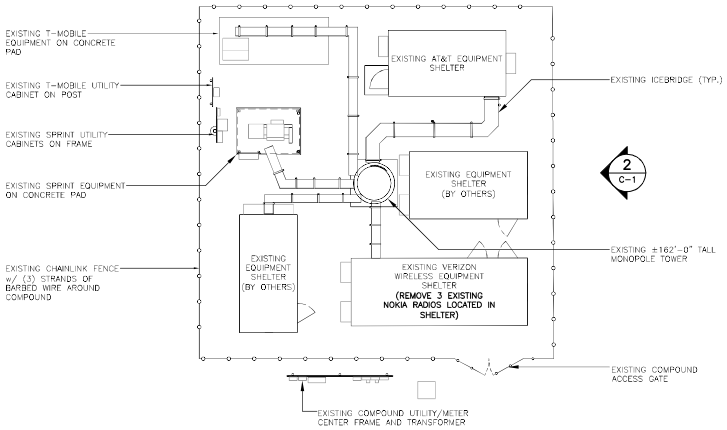
RF BILL OF MATERIALS

B-1

Sheet No. 3 of 7

STRUCTURAL NOTE:

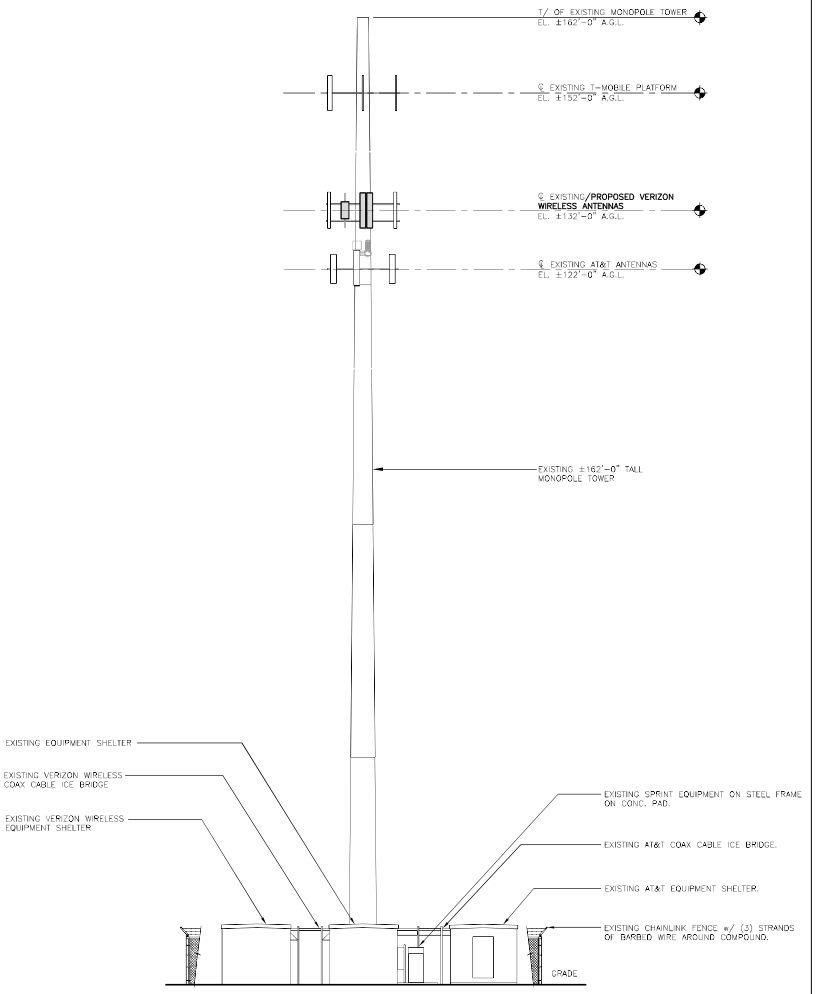
REFER TO PASSING STRUCTURAL ANALYSIS REPORT PREPARED BY TOWER ENGINEERING SOLUTIONS DATED 09/17/2021. T.E.S. PROJECT NO. 111976 R1 FOR ADDITIONAL INFORMATION.



1 C-1 **COMPOUND PLAN - PROPOSED**
SCALE: 1" = 10'-0"

APPROX. NORTH

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.



2 C-1 **NORTHEAST ELEVATION - PROPOSED**
SCALE: 1" = 10'-0"

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	09/24/21	ANC	DMD	CONSTRUCTION DRAWINGS – REVISED FOR SAR REFERENCE UPDATE
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1605 DURHAM ROAD,
WALLINGFORD, CT 06492

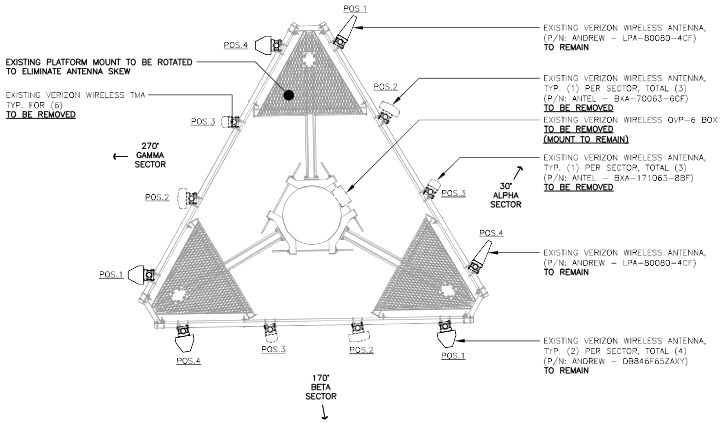
DATE: 08/20/21
SCALE: AS NOTED
JOB NO. 21007.15

COMPOUND PLAN AND ELEVATION

C-1

Sheet No. 4 of 7

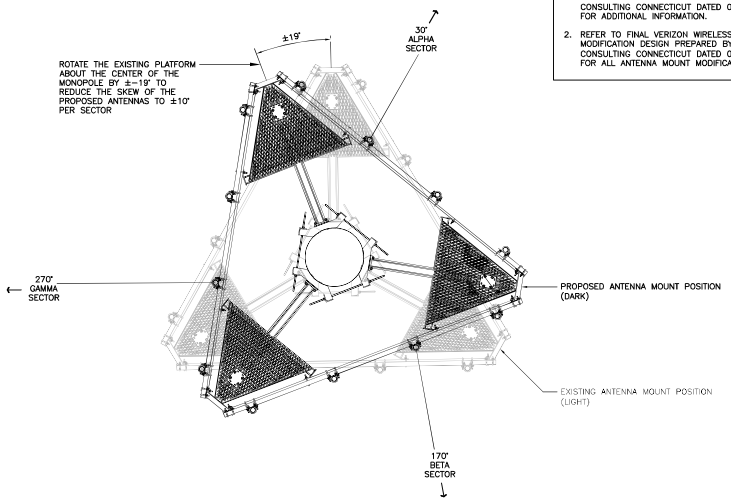
EXISTING ANTENNA CONFIGURATIONS



1 C-2 **EXISTING SECTOR CONFIGURATION PLAN**
SCALE: 3/8" = 1'-0"

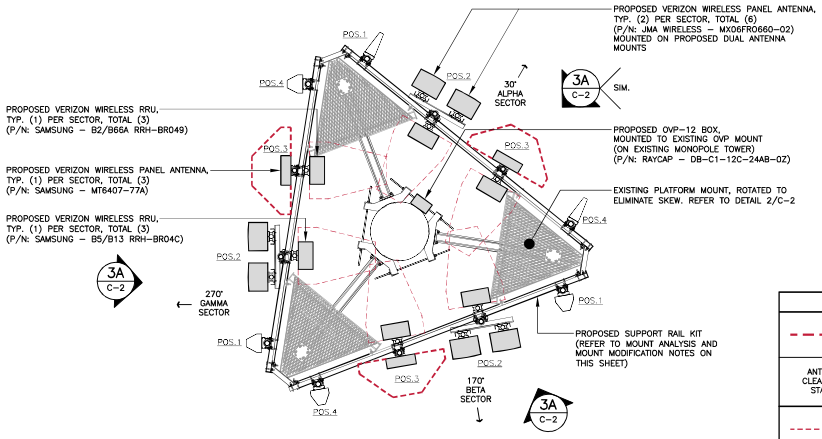
ANTENNA MOUNT ANALYSIS AND MOD NOTES:

1. REFER TO PASSING VERIZON WIRELESS MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING CONNECTICUT DATED 06/24/2021 FOR ADDITIONAL INFORMATION.
2. REFER TO FINAL VERIZON WIRELESS MOUNT MODIFICATION DESIGN PREPARED BY MASER CONSULTING CONNECTICUT DATED 06/24/2021 FOR ALL ANTENNA MOUNT MODIFICATIONS.



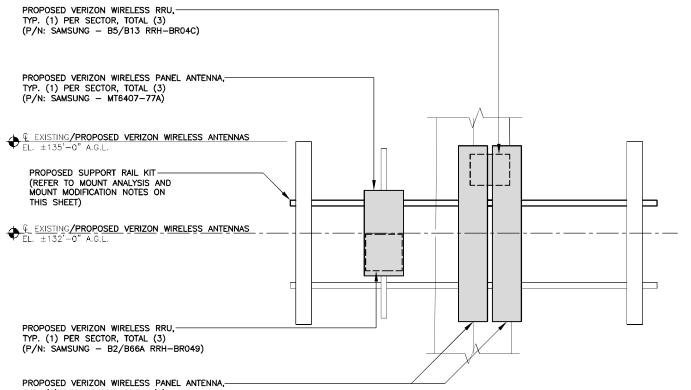
2 C-2 **PROPOSED ANTENNA PLATFORM MOUNT ROTATION**
SCALE: 3/8" = 1'-0"

PROPOSED ANTENNA CONFIGURATIONS



LEGEND		
- - - -	VERIZON WIRELESS VZS01 REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-3)	
ANTENNA CLEARANCE STATUS	ALPHA SECTOR:	COMPLIANT
	BETA SECTOR:	COMPLIANT
	GAMMA SECTOR:	COMPLIANT
- - - -	VERIZON WIRELESS RRU REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-3)	
RRU CLEARANCE STATUS	ALPHA SECTOR:	COMPLIANT
	BETA SECTOR:	COMPLIANT
	GAMMA SECTOR:	COMPLIANT

3 C-2 **PROPOSED SECTOR CONFIGURATION PLAN**
SCALE: 3/8" = 1'-0"



3A C-2 **PROPOSED SECTOR CONFIGURATION ELEVATION**
SCALE: 1/2" = 1'-0"

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
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DATE:	08/20/21
SCALE:	AS NOTED
JOB NO.	21007.15

ANTENNA SECTOR CONFIGURATION DETAILS

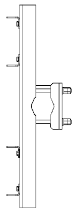
C-2

Sheet No. 5 of 7

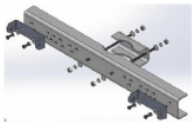
ANTENNA FRONT

SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: MT6407-77A	35.1"h x 16.1"W x 5.5"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)
CLEARANCES AND SERVICE AREA		
TOP: 31.5"	HORIZONTAL DISTANCE: 31.5" (ANT. TO ANT.)	
FRONT, SIDES & BOTTOM: 15.7"	VERTICAL DISTANCE: 63.0" (ANT. TO ANT.)	
NOTES: 1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.		

1 C-3 **SECTOR ANTENNA DETAIL**
NOT TO SCALE



PLAN VIEW



ANTENNA MOUNT ISOMETRIC

DUAL ANTENNA MOUNTING KIT	
EQUIPMENT	DESCRIPTION
MOUNT MAKE: JMA MODEL: 919003314-02	• SIDE-BY-SIDE MOUNTING KIT, ACCOMMODATES (2) COMPATABLE ANTENNAS • 2 BRACKETS REQUIRED FOR 4'-6' ANTENNAS • 3 BRACKETS REQUIRED FOR 6'-8' ANTENNAS

2 C-3 **DUAL ANTENNA MOUNT DETAIL**
NOT TO SCALE

ELEVATION - ISOMETRIC

BOTTOM

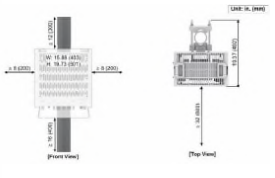
8-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: JMA MODEL: MX06FRO660-02	71.3"L x 15.4"W x 10.7"D	57.0 LBS. (W/OUT MOUNT KIT)

3 C-2 **SECTOR ANTENNA DETAIL**
NOT TO SCALE

OVP BOX		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RAYCAP MODEL: DB-C1-12C-24AB-0Z	29.5"H x 16.5"W x 12.6"D	32 LBS.
NOTES: 1. CONTRACTOR TO CONFIRM OVP BOX MAKE/MODEL AND QUANTITY WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

4 C-4 **PROPOSED OVER-VOLTAGE PROTECTION BOX**
NOT TO SCALE

RRH ISOMETRIC

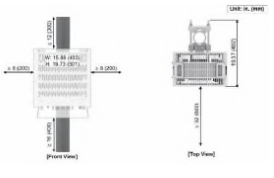


RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B2/B66A RRH-BR049 (RFV01U-D1A)	B2: PCS (1900 MHz) B66: AWS (2100 MHz)	15.0"H x 15.0"W x 10.0"D	84.4 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

5 C-3 **DUAL-BAND AWS/PCS RADIO UNIT DETAIL**
NOT TO SCALE

RRH ISOMETRIC



RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B5/B13 RRH-BR04C (RFV01U-D2A)	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 8.1"D	70.3 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

6 C-3 **DUAL-BAND 700/850 MHZ RADIO UNIT DETAIL**
NOT TO SCALE

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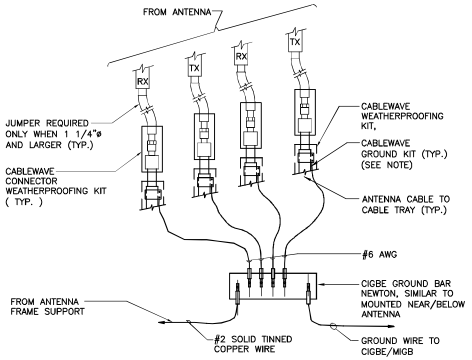
DATE: 08/20/21
SCALE: AS NOTED
JOB NO. 21007.15

RF DETAILS

C-3

Sheet No. 6 of 7

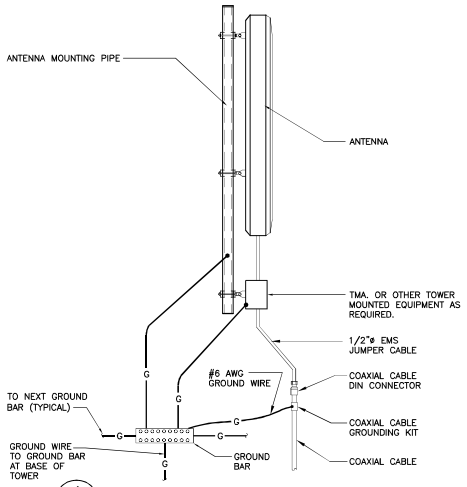


NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

1 E-1 CONNECTION OF GROUND WIRES TO GROUND BAR

NOT TO SCALE

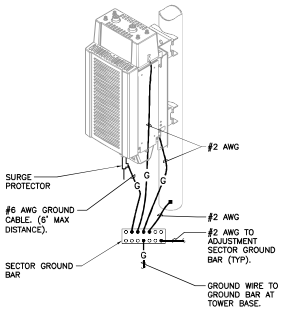


4 E-1 TYPICAL ANTENNA GROUNDING DETAIL

NOT TO SCALE

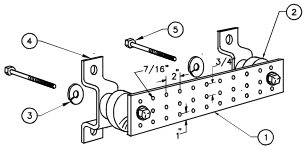
EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:

1. AT TOP OF THE CABINET
2. AT RIGHT SIDE OF THE CABINET.



2 E-1 RRH POLE MOUNT GROUNDING

NOT TO SCALE

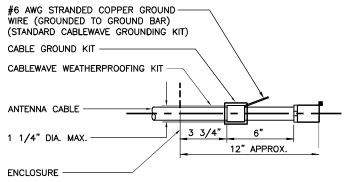


NOTES

1. TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056.
5. 5/8-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE SCREWS.

5 E-1 GROUND BAR DETAIL

NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

3 E-1 ANTENNA CABLE GROUNDING DETAIL

NOT TO SCALE

ELECTRICAL SPECIFICATIONS

SECTION 16010

1.01. SCOPE OF WORK

A. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE (MAKE READY FOR OPERATION) ALL THE ELECTRICAL WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CELLULAR GROUNDING SYSTEMS CONSISTING OF ANTENNA GROUNDING, GROUND BARS, ETC.

1.02. GENERAL REQUIREMENTS

A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.

B. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.

E. NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.

F. THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.

G. DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.

H. THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.

I. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

J. ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.

K. BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.

L. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

SECTION 16450

1.01. GROUNDING

A. ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.

B. GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.

C. EQUIPMENT GROUNDING CONDUCTOR:

1. EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.

2. THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.

D. CELLULAR GROUNDING SYSTEM:

PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:

1. GROUND BARS
2. ANTENNA GROUND CONNECTIONS AND PLATES.

E. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.

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ELECTRICAL DETAILS AND SPECIFICATIONS

E-1

Sheet No. 7 of 7

SAMSUNG

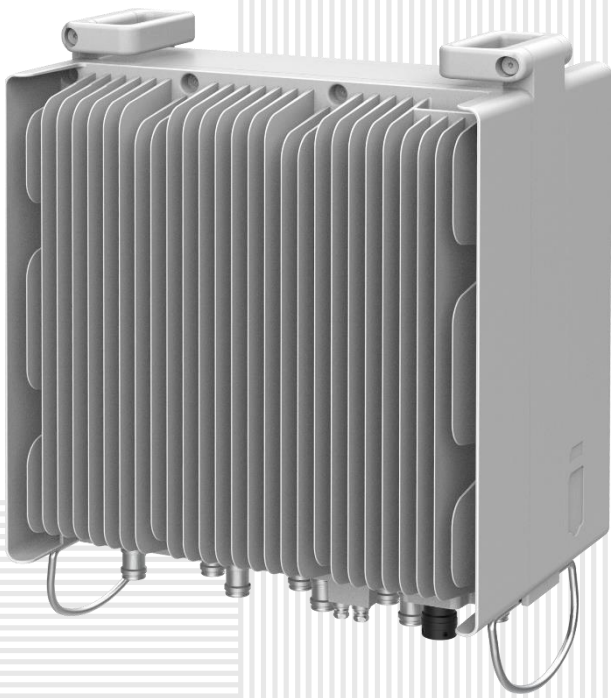
AWS/PCS MACRO RADIO

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.

57196

Model Code	RF4439d-25A



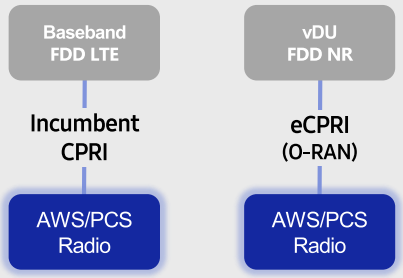
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

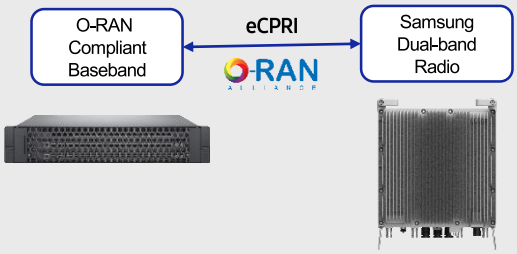
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

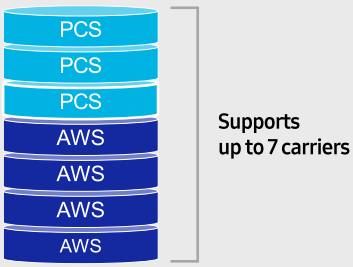
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

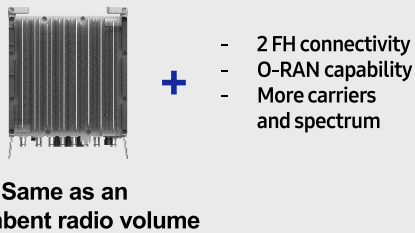
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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

SAMSUNG

700/850MHZ 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 700/850MHz 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	RF4440d-13A

Homepage
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Youtube
www.youtube.com/samsung5g

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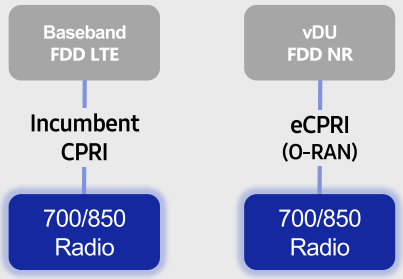

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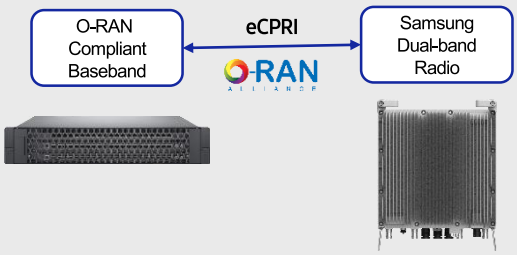
A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

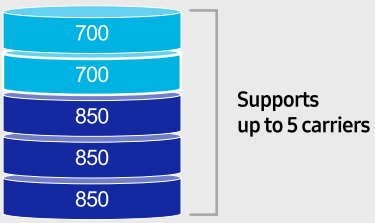
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

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

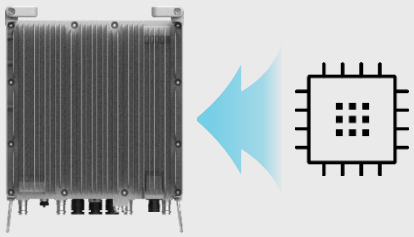
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG

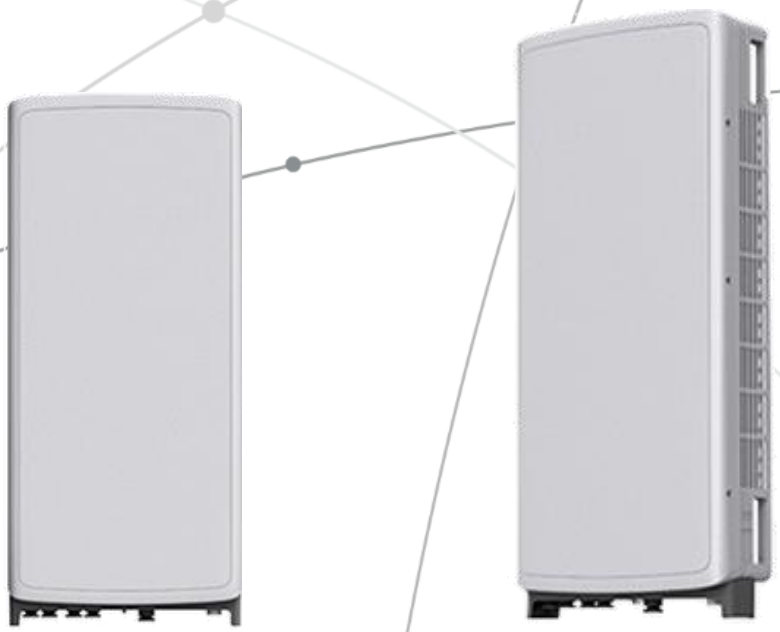
SAMSUNG

C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

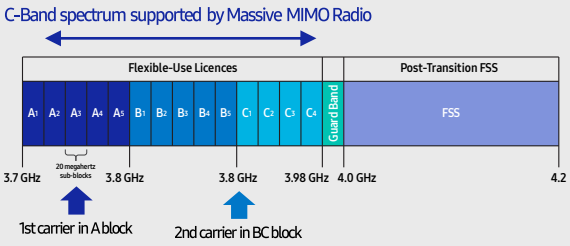


Points of Differentiation

Wide Bandwidth

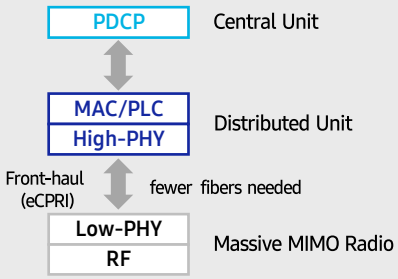
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.
It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

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

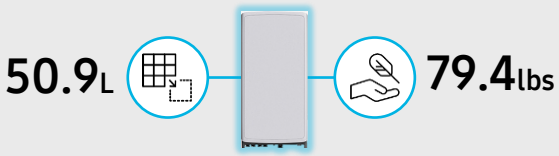
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

Well Matched Design

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

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



Technical Specifications

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

SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

Product Specifications

MX06FRO660-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 60°

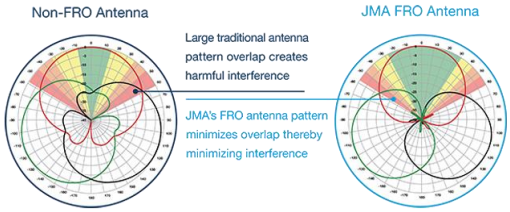
X-Pol, Hex-Port 6 ft 60º Fast Roll Off with Smart Bias T

(2) 698-894 MHz & (4) 1695-2180 MHz

- Fast Roll Off (FRO™) Azimuth beam pattern improves Intra- and Inter-cell SINR
- Excellent Passive Intermodulation (PIM) performance reduces harmful interference
- Fully integrated (iRETs) with *independent* RET control for low and high bands for ease of network optimization
- *SON-Ready* array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM Air interface technologies
- Integrated Smart BIAS-Ts reduces leasing costs

nWAV technology

Fast Roll-Off (FRO) increased throughput, without compromising coverage.



FRO technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

LTE Throughput	SINR	Speed (bps/Hz)	Speed Increase	CQI
Excellent	>20	>5	333+ %	14-15
Good	12-20	3.3-5	277%	10-13
Fair	6-12	1.5-3.3	160%	7-9
Poor	<6	<1.5	0%	1-7

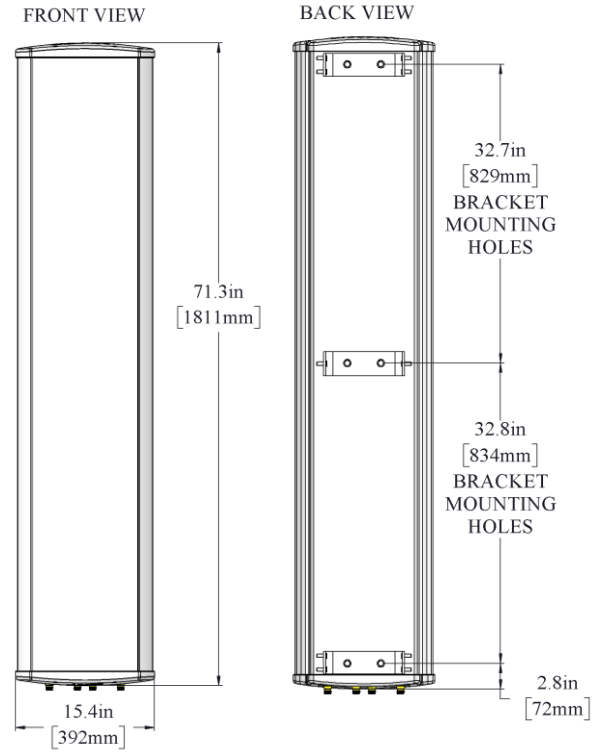
Electrical Specification (Minimum/ Maximum)	Ports 1,2		Ports 3,4,5,6		
Frequency bands, MHz	698–798	824–894	1695–1880	1850–1990	1920–2180
Polarization	± 45⁰		± 45⁰		
Average gain over all tilts, dBi	15.0	14.7	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees[1]	62.5	53.5	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180⁰± 30⁰, dB	>23.7	>21.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>17.8	>14.2	>18	>18	>15
Sector power ratio, percent	<4.8	<3.8	<3.7	<3.8	<3.6
Vertical beamwidth, (VBW), degrees[1]	13.6	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB[1]	≤ -15.0	≤ -16.5	≤ -16.0	≤ -16.0	≤ -16.0
Minimum cross-polar isolation, port-to-port, dB	25	25	25	25	25
Maximum VSWR/ return loss, dB	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0
Maximum passive Intermodulation (PIM), 2x 20W carrier, dBc	-153	-153	-153		
Maximum input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

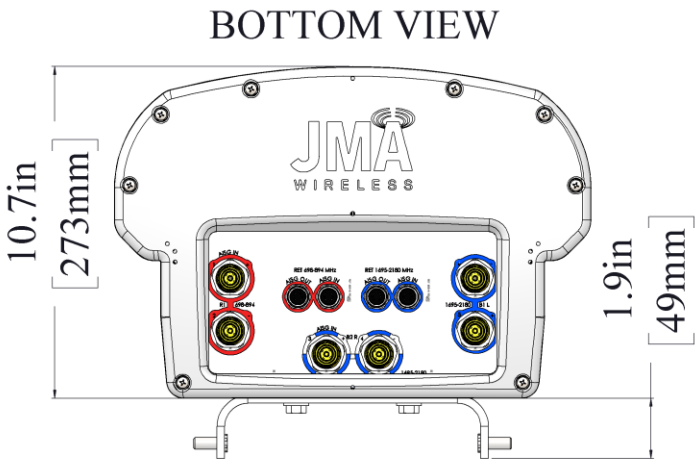
[1] Typical value over frequency and tilt

MX06FRO660-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 60°

Mechanical Specifications	
Dimensions height/ width/ depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 272)
Shipping dimensions length/ width/ height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type & location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N m or 8 lbf·ft)
Net antenna weight, lb (kg)	57 (25.91)
Shipping weight, lb (kg)	97 (44.09)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/ down tilt	-2° to 12^0
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral & rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @100 mph and Cd=2, sq. ft.	2.6





Ordering Information	
Antenna Model	**Description**
MX06FRO660-02	6F X- Pol HEX FRO 60^0 2-14^0/ 0-9^0 RET, 4.3-10 & SBT
Optional Accessories	
992100-CA030-SC	Optional AISG jumper cable, M/F, 3.0 meters
PCU-1000	Primary control unit, USB

MX06FRO660-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 60°

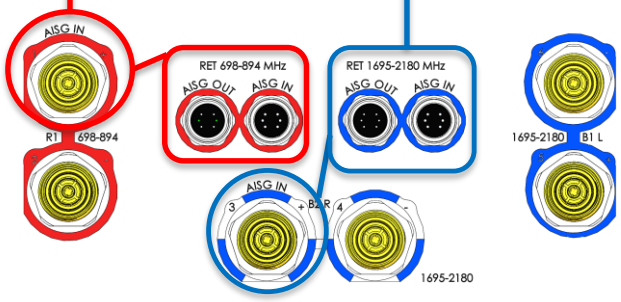
Remote Electrical Tilt (RET 1000) Information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET interface connector quantity	2 pairs of AISG male/ female connectors
RET interface connector location	Bottom of the antenna
Total No. of internal RETs low bands	1
Total No. of internal RETs high bands	1
RET input operating voltage, vdc	10–30
RET max. power consumption, idle state, W	≤ 2.0
RET max. power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0/ 3GPP

RET & RF Connector Topology

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

RET Device	Band	RF Port
1	698–894	1–2

RET Device	Band	RF Port
2	1695–2180	3–6

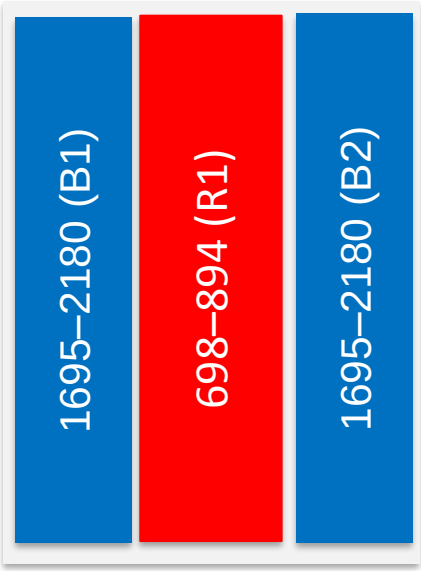


Array Topology

3 sets of radiating arrays

R1: 698–894MHz
B1: 1695–2180MHz
B2: 1695–2180MHz

Band	RF Port
1695–2180	3–4
698–894	1–2
1695–2180	5–6



ATTACHMENT 3

	General	Power	Density					
Site Name: Wallingford 2								
Tower Height: Verizon @ 132ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*T-Mobile	4	1706	152	1900	0.1151	1.0000	1.15%	
*T-Mobile	1	640	152	1900	0.0295	1.0000	0.30%	
*T-Mobile	2	789	152	400	0.0266	0.2667	1.00%	
*T-Mobile	2	433	152	467	0.0146	0.3113	0.47%	
*Nextel	9	100	145	851	0.0168	0.5673	0.30%	
*Sprint	2	693	162	1900	0.0205	1.0000	0.20%	
*Sprint	1	390	162	850	0.0058	0.5667	0.10%	
*Sprint	1	779	162.5	2500	0.0114	1.0000	0.11%	
*AT&T	2	565	122	880	0.0302	0.5867	0.51%	
*AT&T	2	875	122	1900	0.0468	1.0000	0.47%	
*AT&T	1	283	122	880	0.0076	0.5867	0.13%	
*AT&T	4	525	122	1900	0.0561	1.0000	0.56%	
*AT&T	1	1313	122	734	0.0351	0.4893	0.72%	
VZW 700	**4**	**815**	**132**	**751**	**0.0067**	**0.5007**	**1.34%**	
VZW CDMA	**2**	**499**	**132**	**874.8**	**0.0021**	**0.5832**	**0.35%**	
VZW Cellular	**4**	**692**	**132**	**874**	**0.0057**	**0.5827**	**0.98%**	
VZW PCS	**4**	**1671**	**132**	**1975**	**0.0138**	**1.0000**	**1.38%**	
VZW AWS	**4**	**1227**	**132**	**2120**	**0.0101**	**1.0000**	**1.01%**	
VZW CBAND	**4**	**6531**	**132**	**3730.08**	**0.0527**	**1.0000**	**5.27%**	
								16.36%
* Source: Siting Council								

ATTACHMENT 4

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

Structural Analysis Report

Existing 162 ft SUMMIT Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT01698-S

Customer Site Name: Durham

Carrier Name: Verizon (App#: 146434-1)

Carrier Site ID / Name: 467923 / Wallingford 2 CT

Site Location: 1605 Durham Road, CT Route 68

Wallingford, Connecticut

New Haven County

Latitude: 41.469574

Longitude: -72.742250

Analysis Result:

Max Structural Usage: 78.3% [Pass]

Max Foundation Usage: 80.0% [Pass]

Additional Usage Caused by Mount Modification: +0.27%

Report Prepared By: Changzhi Zang

Tower Engineering Solutions
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Report Prepared By: Changzhi Zang

Introduction

The purpose of this report is to summarize the analysis results on the 162 ft SUMMIT Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Paul J. Ford and Company Job #29299-949 dated December 22, 1999
Foundation Drawing	Paul J. Ford and Company Job #29299-949 dated December 22, 1999
Geotechnical Report	Jaworski Geotech, Inc., Project #99407G dated September 2, 1999
Modification Drawings	
Mount Analysis	TES, Job #82795, dated August 2, 2019 MASER Consulting, PROJECT #: 21777084A, dated June 24, 2021

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed V_{ult} = 125.0 mph (3-Sec. Gust)/ Nominal Design Wind Speed V_{asd} = 97.0 mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			RFS APXVTM14-C-120 - Panel	Low Profile Platform	Fiber	Sprint*
			RFS APXVSPP18-C-A20 - Panel			
			Alcatel Lucent 800 MHz Filter	Collar Mount		
			Alcatel Lucent 800 MHz RRU			
			TD-RRH8x20-25 - RRH			
			Alcatel Lucent 1900MHz RRH			
			RFS - APXV18-206516S-A20 - Panel	Modified Platform w/ Hand Rail (Commscope MT-195-14 and	Fiber	T-Mobile**
			Panel			
			EMS - RR90-17-02DP - Panel			
			Allen Telecom FE15501P77/75 –	- -		
			Ericsson KRY 112 144/1 –	-		
			Ericsson Radio 4449 B71+B12			
			Kathrein 782 11056 – Bias T	- - - - -		
			Andrew DB846F65ZAXY - Panel	Low Profile Platform	Hybrid	Verizon
			Commscope SBNHH-1D65B - Panel			
		2	Antel LPA-80080-4CF-EDIN-0 - Panel			
		3	Alcatel Lucent RRH2x60-1900 –			
			Alcatel Lucent RRH2X60-700 –			
			Alcatel Lucent RRH2X60-AWS - RRU			
			RFS FD9R6004/2C-3L - Diplexer			
			– Distribution Box			
			Raycap DC6-48-60-18-8F - Surge Arrestors	Low Profile Platform	Conduit	
			Ericsson RRUS-11 RRU			
			Powerwave 7770.00 - Panel			
			Powerwave LGP21401 TMA			
			Powerwave LGP21903 - Diplexer			
				Low Profile Platform		
			Kathrein 738-449 - Whip	Flush Mount		
				Flush Mount	(1) 1/2"	Verizon**

*Sprint is terminated but remains installed at top rad.

**Lines installed outside of pole shaft. The T-Mobile existing transmission lines can be installed inside or outside of the pole shafts. If installed outside, the lines shall be strapped tightly to the face of the pole shafts. Stacking lines is not allowed.

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
		6	JMA Wireless MX06FRO660-02 - Panel	Low Profile Platform		
			Andrew DB846F65ZAXY - Panel			
			Antel LPA-80080-4CF-EDIN-0 - Panel	[Support Rail Kit]		
			Samsung MT6407-77A - Panel			
			RFS FD9R6004 - Diplexer		(1) 2" Hybrid	Verizon
			Samsung RFV01U-D1A - RRU			
			Samsung RFV01U-D2A - RRU			
			Raycap RCMDC-6627-PF-48 - COVP	Mount pipes		

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

Analysis Results

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

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

Foundations

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

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.4923 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Usage Diagram - Max Ratio 78.26% at 45.0ft

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham	**Exposure:**	C	
Height:	162.00 (ft)	**Gh:**	1.1	
Base Elev:	0.000 (ft)			Page: 1

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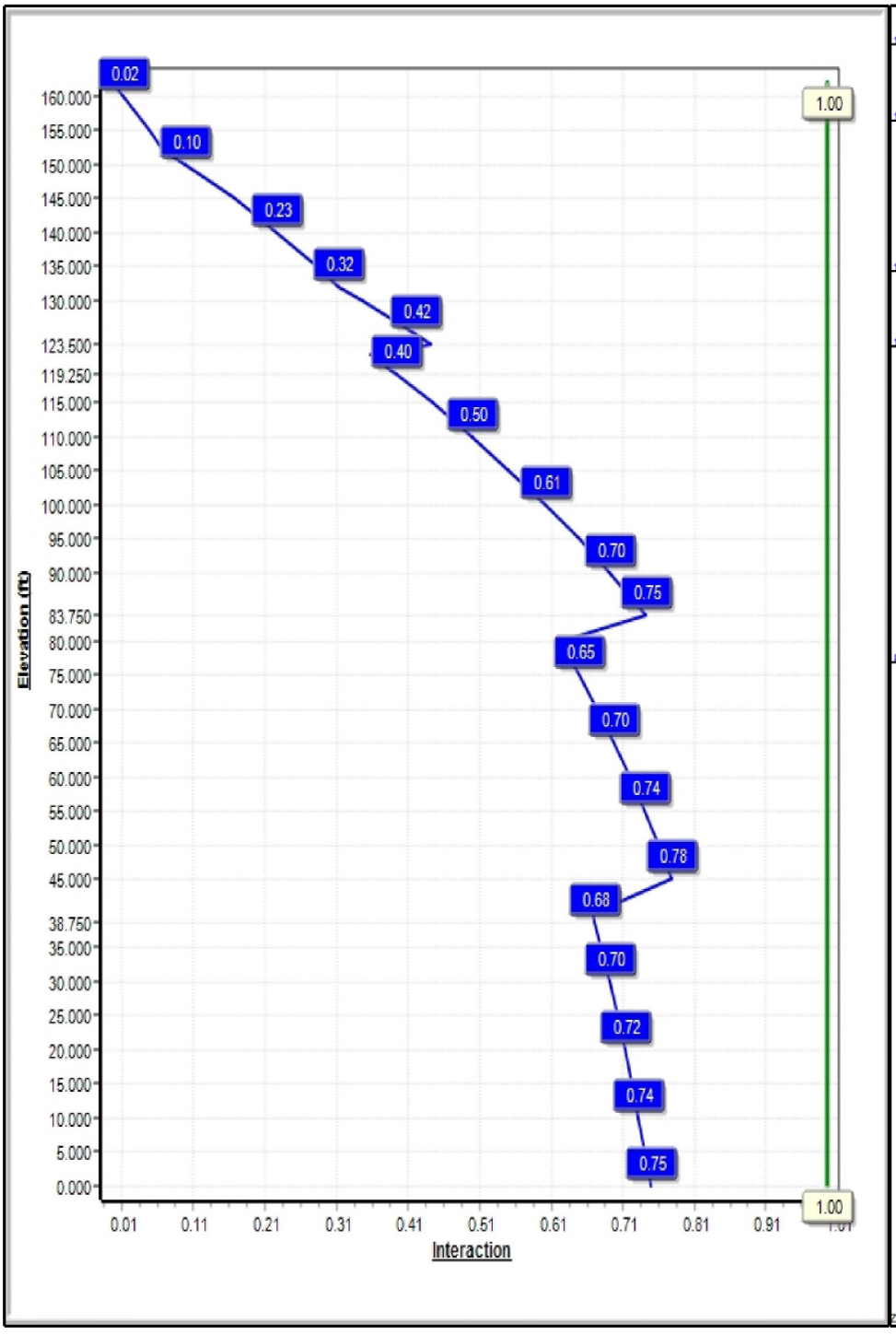
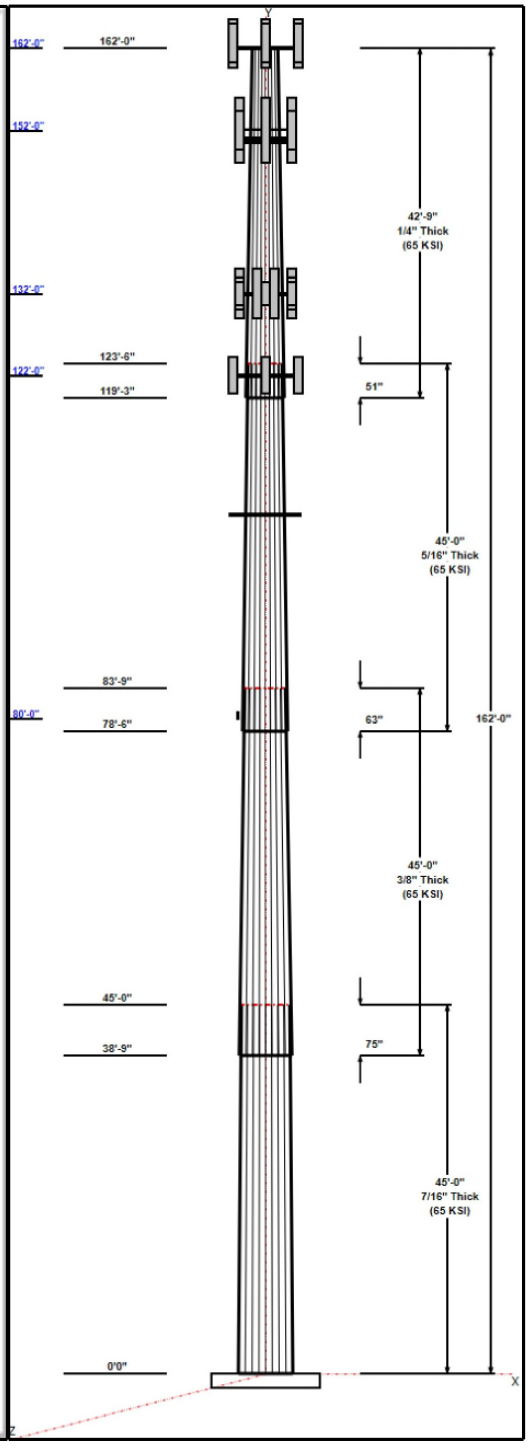
Dead Load Factor:	1.20	**Iterations:**	24
Wind Load Factor:	1.60		

Load Case : 1.2D + 1.6W 97 mph Wind





Structure: CT01698-S-SBA

Type: Tapered
Site Name: Durham
Height: 162.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.22003

9/17/2021

Tower Engineering Solutions

Shaft Properties

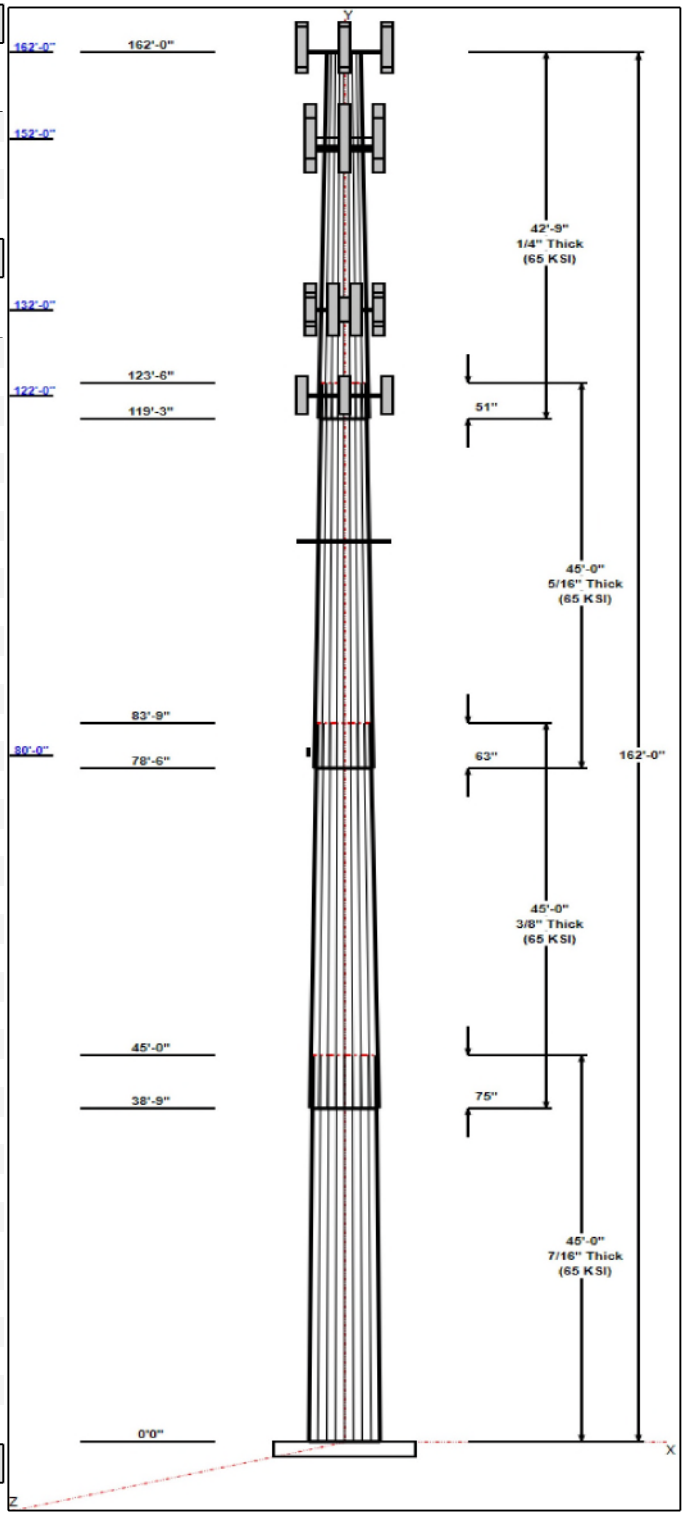
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	45.00	47.87	57.77	0.438		0.22003	65
2	45.00	40.09	49.99	0.375	Slip	0.22003	65
3	45.00	31.97	41.87	0.313	Slip	0.22003	65
4	42.75	24.00	33.41	0.250	Slip	0.22003	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
162.00	162.50	3	APXVTM14-C-120	Sprint
162.00	162.00	3	TD-RRH8x20-25	Sprint
162.00	162.50	3	APXVSPP18-C-A20	Sprint
162.00	162.00	3	1900MHz RRH	Sprint
162.00	162.00	3	800 MHz RRU	Sprint
162.00	162.00	3	800 MHz Ext. Filter	Sprint
162.00	162.50	4	ACU-A20-N	Sprint
162.00	162.00	1	Low Profile Platform-flat	Sprint
162.00	160.00	1	Flush Mount	Sprint
152.00	152.00	3	APXV18-206516S-A20	T-Mobile
152.00	152.00	3	KRY 112 144/1	T-Mobile
152.00	152.00	3	782 11056	T-Mobile
152.00	152.00	3	FE15501P77/75	T-Mobile
152.00	152.00	3	APXVAARR24_43-U-NA20	T-Mobile
152.00	152.00	3	Radio 4449 B71+B12	T-Mobile
152.00	152.00	1	Platform w/ Hand Rail	T-Mobile
152.00	152.00	6	RR90-17-02DP	T-Mobile
132.00	132.00	1	Low Profile	Verizon
132.00	132.00	6	JMA Wireless	Verizon
132.00	132.00	3	Samsung MT6407-77A	Verizon
132.00	132.00	3	Samsung RFV01U-D1A	Verizon
132.00	132.00	3	Samsung RFV01U-D2A	Verizon
132.00	132.00	1	Raycap	Verizon
132.00	132.00	1	HRK12 (Handrail Kit)	Verizon
132.00	132.00	2	LPA-80080-4CF-EDIN-0	Verizon
132.00	132.00	4	DB846F65ZAXY	Verizon
132.00	132.00	6	FD9R6004/2C-3L	Verizon
124.50	124.50	1	Flush Mount	Verizon
124.50	124.50	6	RRUS-11	AT&T
124.50	124.50	1	DC6-48-60-18-8F	AT&T
122.00	122.00	6	7770.00	AT&T
122.00	122.00	6	LGP21401	AT&T
122.00	122.00	6	LGP21903	AT&T
122.00	122.00	3	AM-X-CD-16-65-00T-RET	AT&T
122.00	122.00	1	Low Profile Platform-flat	
105.00	105.00	1	Low Profile Platform-flat	
80.00	80.35	1	738-449	AT&T
75.00	75.00	1	GPS	Verizon

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	162.00	Inside	1 1/4" Coax	Sprint
0.00	162.00	Inside	1 5/8" Fiber	Sprint
0.00	162.00	Outside	Safety Cable	
0.00	152.00	Outside	1 5/8" Coax	T-Mobile



0.00	152.00	Outside	1 5/8" Fiber	T-Mobile
0.00	132.00	Inside	1 5/8" Coax	Verizon
0.00	132.00	Inside	2" Hybrid	Verizon
0.00	122.00	Outside	1 5/8" Coax	AT&T
0.00	122.00	Outside	10 mm	AT&T
0.00	122.00	Outside	3" Coax	AT&T
0.00	122.00	Outside	DC	AT&T
0.00	80.00	Inside	1/2" Coax	AT&T
0.00	75.00	Outside	1/2" Coax	Verizon

Anchor Bolts

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

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	64.0	50.0	Clipped

Reactions

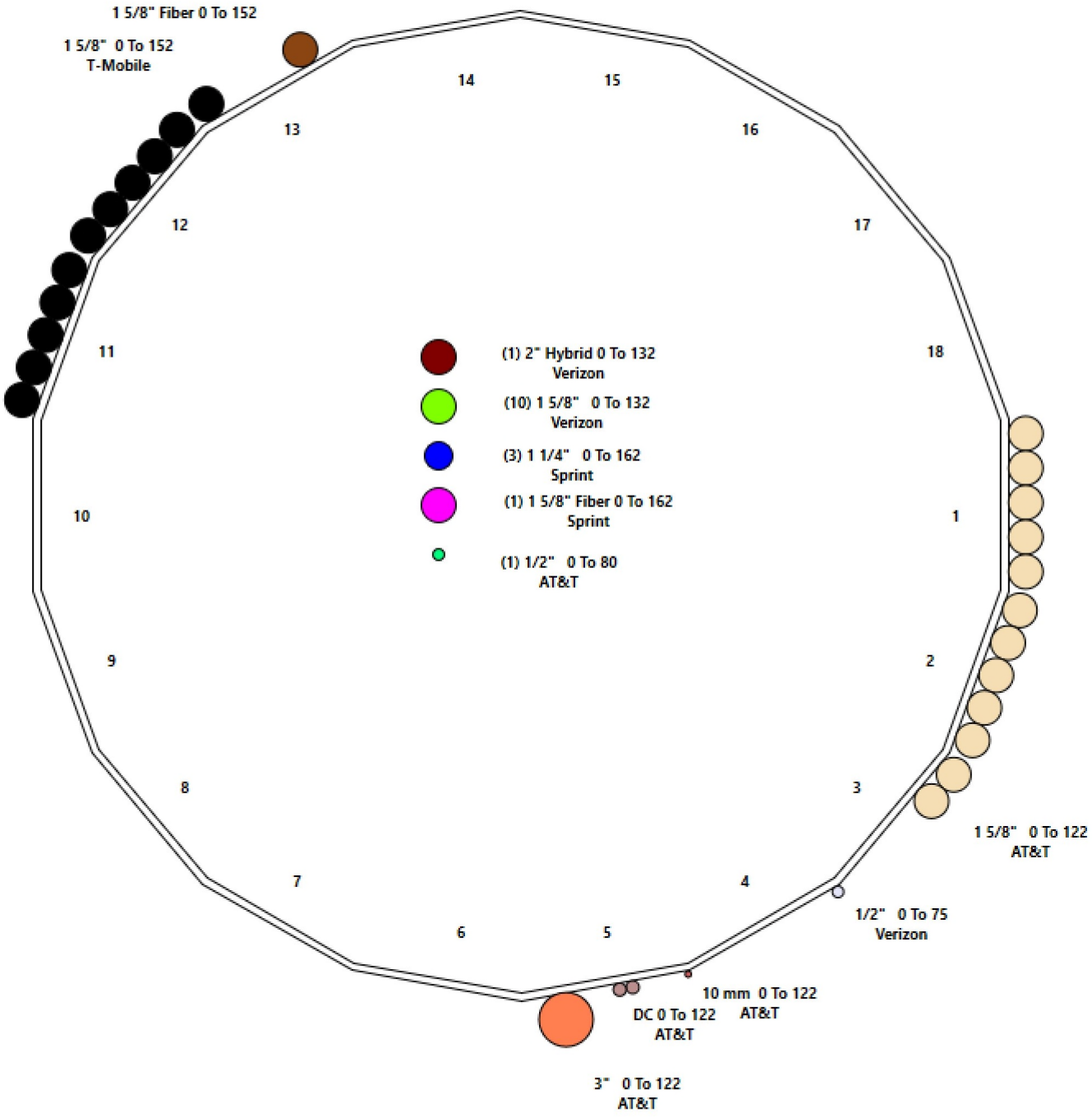
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 97 mph Wind	4755.2	40.1	55.5
0.9D + 1.6W 97 mph Wind	4701.2	40.1	41.6
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1367.5	11.4	99.2
1.2D + 1.0E	259.2	2.0	55.5
0.9D + 1.0E	256.0	2.0	41.6
1.0D + 1.0W 60 mph Wind	1130.4	9.6	46.3

Structure: CT01698-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Durham
Height: 162.00 (ft)

9/17/2021

Tower Engineering Solutions



Shaft Properties

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

Tower Engineering Solutions

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	45.000	0.4375	65		0.00	11,138
2	18	45.000	0.3750	65	Slip	75.00	8,141
3	18	45.000	0.3125	65	Slip	63.00	5,560
4	18	42.750	0.2500	65	Slip	51.00	3,284
					Total Shaft Weight:		**28,123**

	Bottom						Top						
Sec. No.	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Dia (in)**	**Elev (ft)**	**Area (sqin)**	**Ix (in^4)**	**W/t Ratio**	**D/t Ratio**	**Taper**
1	57.77	0.00	79.61	33061.69	21.87	132.05	47.87	45.00	65.86	18720.2	17.88	109.4	0.220031
2	49.99	38.75	59.06	18370.23	22.10	133.32	40.09	83.75	47.27	9421.47	17.44	106.9	0.220031
3	41.87	78.50	41.22	8995.46	22.22	133.99	31.97	123.50	31.40	3976.25	16.63	102.3	0.220031
4	33.41	119.2	26.31	3654.12	22.15	133.63	24.00	162.00	18.84	1343.00	15.52	96.00	0.220031

Load Summary

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Tower Engineering Solutions

Discrete Appurtenances

				No Ice			Ice				
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	162.00	APXVTM14-C-120	3	56.00	6.34	0.79	217.90	7.463	0.79	0.00	0.50
2	162.00	TD-RRH8x20-25	3	70.00	4.05	0.69	181.50	4.870	0.69	0.00	0.00
3	162.00	APXVSPP18-C-A20	3	57.00	8.02	0.83	231.19	10.835	0.83	0.00	0.50
4	162.00	1900MHz RRH	3	44.00	3.80	0.88	154.01	5.201	0.88	0.00	0.00
5	162.00	800 MHz RRU	3	53.00	2.49	0.75	127.53	3.643	0.75	0.00	0.00
6	162.00	800 MHz Ext. Filter	3	6.60	1.19	0.63	31.03	1.983	0.63	0.00	0.00
7	162.00	ACU-A20-N	4	1.00	0.14	0.75	5.33	0.439	0.75	0.00	0.50
8	162.00	Low Profile Platform-flat	1	1200.00	25.00	1.00	2255.22	46.104	1.00	0.00	0.00
9	162.00	Flush Mount	1	175.00	5.00	1.00	322.73	8.517	1.00	0.00	-2.00
10	152.00	APXV18-206516S-A20	3	18.50	4.36	0.76	87.92	6.606	0.78	0.00	0.00
11	152.00	KRY 112 144/1	3	11.00	0.35	0.73	21.80	0.756	0.78	0.00	0.00
12	152.00	782 11056	3	1.80	0.15	0.67	6.33	0.365	0.67	0.00	0.00
13	152.00	FE15501P77/75	3	17.50	0.54	0.65	23.40	0.874	0.65	0.00	0.00
14	152.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	546.56	22.143	0.70	0.00	0.00
15	152.00	Radio 4449 B71+B12	3	71.00	1.97	0.86	124.45	2.518	0.86	0.00	0.00
16	152.00	Platform w/ Hand Rail (Modified)	1	2796.50	49.30	1.00	6471.50	92.377	1.00	0.00	0.00
17	152.00	RR90-17-02DP	6	13.50	4.36	0.73	112.37	5.347	0.73	0.00	0.00
18	132.00	Low Profile Platform-Round	1	1500.00	22.00	1.00	2792.29	39.437	1.00	0.00	0.00
19	132.00	JMA Wireless MX06FRO660-02	6	46.00	9.87	0.87	311.04	11.227	0.87	0.00	0.00
20	132.00	Samsung MT6407-77A	3	79.40	4.69	0.70	197.11	5.625	0.75	0.00	0.00
21	132.00	Samsung RFV01U-D1A	3	84.40	1.88	0.67	135.01	2.424	0.67	0.00	0.00
22	132.00	Samsung RFV01U-D2A	3	70.30	1.88	0.67	118.32	2.424	0.67	0.00	0.00
23	132.00	Raycap RCMDC-6627-PF-48	1	32.00	4.06	0.67	144.48	4.872	0.67	0.00	0.00
24	132.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	568.37	13.263	1.00	0.00	0.00
25	132.00	LPA-80080-4CF-EDIN-0	2	12.00	2.61	1.70	126.15	3.497	1.70	0.00	0.00
26	132.00	DB846F65ZAXY	4	21.00	7.05	0.93	215.40	8.264	0.93	0.00	0.00
27	132.00	FD9R6004/2C-3L	6	3.10	0.36	0.75	11.02	0.798	0.75	0.00	0.00
28	124.50	Flush Mount	1	175.00	5.00	1.00	318.89	8.426	1.00	0.00	0.00
29	124.50	RRUS-11	6	55.00	4.42	0.68	143.30	5.892	0.68	0.00	0.00
30	124.50	DC6-48-60-18-8F	1	31.80	1.47	1.00	92.48	2.157	1.00	0.00	0.00
31	122.00	7770.00	6	35.00	5.50	0.73	166.79	6.542	0.73	0.00	0.00
32	122.00	LGP21401	6	14.10	1.29	0.75	38.59	2.109	0.75	0.00	0.00
33	122.00	LGP21903	6	5.50	0.27	0.75	13.76	0.660	0.75	0.00	0.00
34	122.00	AM-X-CD-16-65-00T-RET	3	33.00	6.05	0.81	174.83	8.106	0.81	0.00	0.00
35	122.00	Low Profile Platform-flat	1	1200.00	25.00	1.00	2225.72	45.514	1.00	0.00	0.00
36	105.00	Low Profile Platform-flat	1	1200.00	25.00	1.00	2210.44	45.209	1.00	0.00	0.00
37	80.00	738-449	1	0.50	0.01	1.00	2.38	0.068	1.00	0.00	0.35
38	75.00	GPS	1	10.00	1.00	1.00	37.36	1.664	1.00	0.00	0.00
		Totals:	**112**	**12,132.22**			**30,494.87**				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	162.00	(3) 1 1/4" Coax	0.00	Inside
0.00	162.00	(1) 1 5/8" Fiber	0.00	Inside
0.00	162.00	(1) Safety Cable	0.00	Outside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
0.00	152.00	(11) 1 5/8" Coax			1.98	Outside					
0.00	152.00	(1) 1 5/8" Fiber			0.00	Outside					
0.00	132.00	(10) 1 5/8" Coax			0.00	Inside					
0.00	132.00	(1) 2" Hybrid			0.00	Inside					
0.00	122.00	(12) 1 5/8" Coax			0.00	Outside					
0.00	122.00	(1) 10 mm			0.00	Outside					
0.00	122.00	(1) 3" Coax			3.00	Outside					
0.00	122.00	(2) DC			0.00	Outside					
0.00	80.00	(1) 1/2" Coax			0.00	Inside					
0.00	75.00	(1) 1/2" Coax			0.00	Outside					

Shaft Section Properties

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

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	57.770	79.610	33061.7	21.87	132.05	75.7	1127.	0.0
5.00		0.4375	56.670	78.083	31194.7	21.43	129.53	76.2	1084.	1341.5
10.00		0.4375	55.570	76.555	29399.4	20.99	127.02	76.7	1042.	1315.5
15.00		0.4375	54.470	75.028	27674.3	20.54	124.50	77.2	1000.	1289.5
20.00		0.4375	53.369	73.500	26018.0	20.10	121.99	77.8	960.2	1263.5
25.00		0.4375	52.269	71.972	24429.2	19.66	119.47	78.3	920.5	1237.5
30.00		0.4375	51.169	70.445	22906.4	19.21	116.96	78.8	881.7	1211.5
35.00		0.4375	50.069	68.917	21448.3	18.77	114.44	79.3	843.7	1185.5
38.75	Bot - Section 2	0.4375	49.244	67.771	20396.2	18.44	112.56	79.7	815.8	872.1
40.00		0.4375	48.969	67.389	20053.4	18.33	111.93	79.8	806.6	538.0
45.00	Top - Section 1	0.3750	48.619	57.420	16884.8	21.45	129.65	0.0	0.0	2121.6
50.00		0.3750	47.518	56.110	15755.8	20.93	126.72	76.8	653.1	965.8
55.00		0.3750	46.418	54.801	14678.3	20.42	123.78	77.4	622.8	943.5
60.00		0.3750	45.318	53.492	13651.1	19.90	120.85	78.0	593.3	921.2
65.00		0.3750	44.218	52.182	12672.9	19.38	117.91	78.6	564.5	899.0
70.00		0.3750	43.118	50.873	11742.6	18.86	114.98	79.2	536.4	876.7
75.00		0.3750	42.018	49.563	10859.0	18.35	112.05	79.8	509.0	854.4
78.50	Bot - Section 3	0.3750	41.248	48.647	10267.7	17.98	109.99	80.2	490.3	584.8
80.00		0.3750	40.918	48.254	10020.9	17.83	109.11	80.4	482.4	456.9
83.75	Top - Section 2	0.3125	40.717	40.075	8266.0	21.56	130.30	0.0	0.0	1126.1
85.00		0.3125	40.442	39.802	8098.4	21.41	129.42	76.2	394.4	169.9
90.00		0.3125	39.342	38.711	7450.4	20.79	125.90	77.0	373.0	667.9
95.00		0.3125	38.242	37.620	6838.0	20.17	122.37	77.7	352.2	649.3
100.00		0.3125	37.142	36.529	6260.1	19.55	118.85	78.4	332.0	630.8
105.00		0.3125	36.042	35.438	5715.7	18.93	115.33	79.1	312.4	612.2
110.00		0.3125	34.942	34.347	5203.8	18.31	111.81	79.9	293.3	593.7
115.00		0.3125	33.841	33.255	4723.4	17.68	108.29	80.6	274.9	575.1
119.25	Bot - Section 4	0.3125	32.906	32.328	4339.1	17.16	105.30	81.2	259.7	474.2
120.00		0.3125	32.741	32.164	4273.5	17.06	104.77	81.3	257.1	149.3
122.00		0.3125	32.301	31.728	4101.9	16.82	103.36	81.6	250.1	394.4
123.50	Top - Section 3	0.2500	32.471	25.567	3353.6	21.49	129.88	0.0	0.0	292.3
124.50		0.2500	32.251	25.392	3285.3	21.34	129.00	76.3	200.6	86.7
125.00		0.2500	32.141	25.305	3251.6	21.26	128.56	76.4	199.3	43.1
130.00		0.2500	31.041	24.432	2926.5	20.48	124.16	77.3	185.7	423.1
132.00		0.2500	30.601	24.083	2802.9	20.17	122.40	77.7	180.4	165.1
135.00		0.2500	29.941	23.559	2623.9	19.71	119.76	78.2	172.6	243.2
140.00		0.2500	28.841	22.686	2342.9	18.93	115.36	79.1	160.0	393.4
145.00		0.2500	27.741	21.813	2082.7	18.15	110.96	80.0	147.9	378.5
150.00		0.2500	26.640	20.940	1842.6	17.38	106.56	81.0	136.2	363.7
152.00		0.2500	26.200	20.591	1751.9	17.07	104.80	81.3	131.7	141.3
155.00		0.2500	25.540	20.067	1621.6	16.60	102.16	81.9	125.1	207.5
160.00		0.2500	24.440	19.194	1419.0	15.83	97.76	82.5	114.4	334.0
162.00		0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	129.4
										28122.8

Wind Loading - Shaft

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 9	

Tower Engineering Solutions

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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	0.85	19.450	21.40	437.17	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	19.450	21.40	428.85	0.650	0.000	5.00	24.209	15.74	538.7	0.0	1609.8
10.00		1.00	0.85	19.450	21.40	420.52	0.650	0.000	5.00	23.744	15.43	528.3	0.0	1578.6
15.00		1.00	0.85	19.450	21.40	412.19	0.650	0.000	5.00	23.278	15.13	518.0	0.0	1547.4
20.00		1.00	0.90	20.638	22.70	416.01	0.650	0.000	5.00	22.813	14.83	538.6	0.0	1516.2
25.00		1.00	0.95	21.630	23.79	417.12	0.650	0.000	5.00	22.348	14.53	553.0	0.0	1485.0
30.00		1.00	0.98	22.477	24.72	416.25	0.650	0.000	5.00	21.882	14.22	562.7	0.0	1453.8
35.00		1.00	1.01	23.218	25.54	413.97	0.650	0.000	5.00	21.417	13.92	568.9	0.0	1422.6
38.75	Bot - Section 2	1.00	1.04	23.721	26.09	411.53	0.650	0.000	3.75	15.757	10.24	427.6	0.0	1046.5
40.00		1.00	1.04	23.880	26.27	410.60	0.650	0.000	1.25	5.273	3.43	144.1	0.0	645.5
45.00	Top - Section 1	1.00	1.07	24.479	26.93	406.38	0.653 *	0.000	5.00	20.803	13.57	584.8	0.0	2546.0
50.00		1.00	1.09	25.029	27.53	407.91	0.654 *	0.000	5.00	20.338	13.30	585.9	0.0	1159.0
55.00		1.00	1.12	25.536	28.09	402.48	0.659 *	0.000	5.00	19.872	13.09	588.2	0.0	1132.2
60.00		1.00	1.14	26.008	28.61	396.56	0.663 *	0.000	5.00	19.407	12.88	589.4	0.0	1105.5
65.00		1.00	1.16	26.450	29.09	390.21	0.669 *	0.000	5.00	18.941	12.66	589.6	0.0	1078.8
70.00		1.00	1.17	26.866	29.55	383.48	0.674 *	0.000	5.00	18.476	12.45	588.8	0.0	1052.0
75.00	Appurtenance(s)	1.00	1.19	27.259	29.98	376.42	0.680 *	0.000	5.00	18.010	12.24	587.3	0.0	1025.3
78.50	Bot - Section 3	1.00	1.20	27.522	30.27	371.30	0.685 *	0.000	3.50	12.330	8.44	408.9	0.0	701.8
80.00	Appurtenance(s)	1.00	1.21	27.632	30.39	369.06	0.688 *	0.000	1.50	5.294	3.64	177.1	0.0	548.2
83.75	Top - Section 2	1.00	1.22	27.899	30.69	363.37	0.691 *	0.000	3.75	13.051	9.02	442.9	0.0	1351.3
85.00		1.00	1.22	27.987	30.79	367.11	0.691 *	0.000	1.25	4.292	2.96	146.0	0.0	203.9
90.00		1.00	1.24	28.325	31.16	359.28	0.695 *	0.000	5.00	16.878	11.73	584.6	0.0	801.5
95.00		1.00	1.25	28.650	31.51	351.23	0.702 *	0.000	5.00	16.413	11.51	580.6	0.0	779.2
100.00		1.00	1.27	28.961	31.86	342.97	0.709 *	0.000	5.00	15.947	11.30	576.1	0.0	756.9
105.00	Appurtenance(s)	1.00	1.28	29.260	32.19	334.52	0.716 *	0.000	5.00	15.482	11.09	571.1	0.0	734.7
110.00		1.00	1.29	29.548	32.50	325.90	0.724 *	0.000	5.00	15.016	10.88	565.7	0.0	712.4
115.00		1.00	1.30	29.826	32.81	317.12	0.733 *	0.000	5.00	14.551	10.67	559.9	0.0	690.1
119.25	Bot - Section 4	1.00	1.31	30.054	33.06	309.54	0.742 *	0.000	4.25	12.002	8.90	470.8	0.0	569.1
120.00		1.00	1.32	30.094	33.10	308.19	0.746 *	0.000	0.75	2.115	1.58	83.6	0.0	179.1
122.00	Appurtenance(s)	1.00	1.32	30.199	33.22	304.58	0.749 *	0.000	2.00	5.588	4.19	222.5	0.0	473.3
123.50	Top - Section 3	1.00	1.32	30.277	33.30	301.86	0.650	0.000	1.50	4.142	2.69	143.5	0.0	350.7
124.50	Appurtenance(s)	1.00	1.33	30.328	33.36	304.76	0.650	0.000	1.00	2.738	1.78	95.0	0.0	104.0
125.00		1.00	1.33	30.354	33.39	303.85	0.650	0.000	0.50	1.362	0.89	47.3	0.0	51.8
130.00		1.00	1.34	30.605	33.67	294.66	0.650	0.000	5.00	13.366	8.69	468.0	0.0	507.7
132.00	Appurtenance(s)	1.00	1.34	30.704	33.77	290.95	0.650	0.000	2.00	5.216	3.39	183.2	0.0	198.1
135.00		1.00	1.35	30.850	33.93	285.35	0.650	0.000	3.00	7.684	4.99	271.2	0.0	291.8
140.00		1.00	1.36	31.087	34.20	275.92	0.650	0.000	5.00	12.435	8.08	442.2	0.0	472.1
145.00		1.00	1.37	31.317	34.45	266.37	0.650	0.000	5.00	11.970	7.78	428.8	0.0	454.3
150.00		1.00	1.38	31.541	34.70	256.72	0.650	0.000	5.00	11.504	7.48	415.1	0.0	436.4
152.00	Appurtenance(s)	1.00	1.38	31.630	34.79	252.84	0.650	0.000	2.00	4.471	2.91	161.8	0.0	169.6
155.00		1.00	1.39	31.760	34.94	246.97	0.650	0.000	3.00	6.567	4.27	238.6	0.0	249.0
160.00		1.00	1.40	31.973	35.17	237.13	0.650	0.000	5.00	10.573	6.87	386.7	0.0	400.8
162.00	Appurtenance(s)	1.00	1.40	32.057	35.26	233.16	0.650	0.000	2.00	4.099	2.66	150.3	0.0	155.3
								Totals:	**162.00**			**17,315.4**		**33,747.3**

* CfA djusted byL inear Load Ra Effect

Discrete Appurtenance Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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 + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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	162.00	Low Profile Platform-flat	1	32.057	35.262	1.00	1.00	25.00	1440.00	0.000	0.000	1410.49	0.00	0.00
2	162.00	ACU-A20-N	4	32.077	35.285	0.75	1.00	0.42	4.80	0.000	0.500	23.71	0.00	11.86
3	162.00	800 MHz Ext. Filter	3	32.057	35.262	0.63	1.00	2.25	23.76	0.000	0.000	126.89	0.00	0.00
4	162.00	800 MHz RRU	3	32.057	35.262	0.75	1.00	5.60	190.80	0.000	0.000	316.09	0.00	0.00
5	162.00	1900MHz RRH	3	32.057	35.262	0.88	1.00	10.03	158.40	0.000	0.000	566.00	0.00	0.00
6	162.00	APXVSPP18-C-A20	3	32.077	35.285	0.66	0.80	15.98	205.20	0.000	0.500	901.94	0.00	450.97
7	162.00	TD-RRH8x20-25	3	32.057	35.262	0.69	1.00	8.38	252.00	0.000	0.000	472.99	0.00	0.00
8	162.00	APXVTM14-C-120	3	32.077	35.285	0.63	0.80	12.02	201.60	0.000	0.500	678.64	0.00	339.32
9	162.00	Flush Mount	1	31.973	35.170	1.00	1.00	5.00	210.00	0.000	-2.000	281.36	0.00	-562.72
10	152.00	782 11056	3	31.630	34.792	0.50	0.75	0.23	6.48	0.000	0.000	12.59	0.00	0.00
11	152.00	KRY 112 144/1	3	31.630	34.792	0.55	0.75	0.57	39.60	0.000	0.000	32.00	0.00	0.00
12	152.00	FE15501P77/75	3	31.630	34.792	0.49	0.75	0.79	63.00	0.000	0.000	43.96	0.00	0.00
13	152.00	APXV18-206516S-A20	3	31.630	34.792	0.57	0.75	7.46	66.60	0.000	0.000	415.04	0.00	0.00
14	152.00	RR90-17-02DP	6	31.630	34.792	0.55	0.75	14.32	97.20	0.000	0.000	797.31	0.00	0.00
15	152.00	APXVAARR24_43-U-NA2	3	31.630	34.792	0.52	0.75	31.88	460.80	0.000	0.000	1774.58	0.00	0.00
16	152.00	Radio 4449 B71+B12	3	31.630	34.792	0.65	0.75	3.81	255.60	0.000	0.000	212.20	0.00	0.00
17	152.00	Platform w/ Hand Rail	1	31.630	34.792	1.00	1.00	49.30	3355.80	0.000	0.000	2744.43	0.00	0.00
18	132.00	FD9R6004/2C-3L	6	30.704	33.774	0.56	0.75	1.22	22.32	0.000	0.000	65.66	0.00	0.00
19	132.00	DB846F65ZAXY	4	30.704	33.774	0.70	0.75	19.67	100.80	0.000	0.000	1062.92	0.00	0.00
20	132.00	LPA-80080-4CF-EDIN-0	2	30.704	33.774	1.27	0.75	6.66	28.80	0.000	0.000	359.66	0.00	0.00
21	132.00	HRK12 (Handrail Kit)	1	30.704	33.774	1.00	1.00	6.75	314.06	0.000	0.000	364.76	0.00	0.00
22	132.00	Raycap	1	30.704	33.774	0.50	0.75	2.04	38.40	0.000	0.000	110.25	0.00	0.00
23	132.00	Samsung RFV01U-D2A	3	30.704	33.774	0.50	0.75	2.83	253.08	0.000	0.000	153.15	0.00	0.00
24	132.00	Samsung RFV01U-D1A	3	30.704	33.774	0.50	0.75	2.83	303.84	0.000	0.000	153.15	0.00	0.00
25	132.00	Samsung MT6407-77A	3	30.704	33.774	0.52	0.75	7.39	285.84	0.000	0.000	399.17	0.00	0.00
26	132.00	JMA Wireless	6	30.704	33.774	0.65	0.75	38.64	331.20	0.000	0.000	2088.12	0.00	0.00
27	132.00	Low Profile	1	30.704	33.774	1.00	1.00	22.00	1800.00	0.000	0.000	1188.86	0.00	0.00
28	124.50	Flush Mount	1	30.328	33.361	1.00	1.00	5.00	210.00	0.000	0.000	266.89	0.00	0.00
29	124.50	RRUS-11	6	30.328	33.361	0.68	1.00	18.03	396.00	0.000	0.000	962.59	0.00	0.00
30	124.50	DC6-48-60-18-8F	1	30.328	33.361	1.00	1.00	1.47	38.16	0.000	0.000	78.46	0.00	0.00
31	122.00	Low Profile Platform-flat	1	30.199	33.219	1.00	1.00	25.00	1440.00	0.000	0.000	1328.75	0.00	0.00
32	122.00	AM-X-CD-16-65-00T-RET	3	30.199	33.219	0.65	0.80	11.76	118.80	0.000	0.000	625.11	0.00	0.00
33	122.00	LGP21903	6	30.199	33.219	0.60	0.80	0.97	39.60	0.000	0.000	51.66	0.00	0.00
34	122.00	LGP21401	6	30.199	33.219	0.60	0.80	4.64	101.52	0.000	0.000	246.83	0.00	0.00
35	122.00	7770.00	6	30.199	33.219	0.58	0.80	19.27	252.00	0.000	0.000	1024.31	0.00	0.00
36	105.00	Low Profile Platform-flat	1	29.260	32.186	1.00	1.00	25.00	1440.00	0.000	0.000	1287.43	0.00	0.00
37	80.00	738-449	1	27.657	30.423	1.00	1.00	0.01	0.60	0.000	0.350	0.49	0.00	0.17
38	75.00	GPS	1	27.259	29.985	1.00	1.00	1.00	12.00	0.000	0.000	47.98	0.00	0.00
							Totals:		**14,558.66**			**22,676.43**		

Total Applied Force Summary

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 11

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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		538.69	1875.06	0.00	0.00
10.00		528.33	1843.87	0.00	0.00
15.00		517.97	1812.68	0.00	0.00
20.00		538.60	1781.50	0.00	0.00
25.00		552.99	1750.31	0.00	0.00
30.00		562.66	1719.12	0.00	0.00
35.00		568.85	1687.93	0.00	0.00
38.75		427.59	1245.48	0.00	0.00
40.00		144.06	711.86	0.00	0.00
45.00		584.83	2811.24	0.00	0.00
50.00		585.86	1424.23	0.00	0.00
55.00		588.22	1397.50	0.00	0.00
60.00		589.40	1370.77	0.00	0.00
65.00		589.55	1344.03	0.00	0.00
70.00		588.81	1317.30	0.00	0.00
75.00	(1) attachments	635.24	1302.56	0.00	0.00
78.50		408.95	886.82	0.00	0.00
80.00	(1) attachments	177.56	628.13	0.00	0.17
83.75		442.90	1548.81	0.00	0.00
85.00		146.02	269.69	0.00	0.00
90.00		584.57	1064.85	0.00	0.00
95.00		580.58	1042.57	0.00	0.00
100.00		576.09	1020.29	0.00	0.00
105.00	(1) attachments	1858.56	2438.02	0.00	0.00
110.00		565.74	975.74	0.00	0.00
115.00		559.94	953.46	0.00	0.00
119.25		470.79	792.92	0.00	0.00
120.00		83.60	218.63	0.00	0.00
122.00	(22) attachments	3499.15	2530.51	0.00	0.00
123.50		143.48	402.52	0.00	0.00
124.50	(8) attachments	1402.95	782.73	0.00	0.00
125.00		47.30	69.02	0.00	0.00
130.00		467.98	680.36	0.00	0.00
132.00	(30) attachments	6128.91	3745.50	0.00	0.00
135.00		271.20	349.02	0.00	0.00
140.00		442.23	567.44	0.00	0.00
145.00		428.83	549.62	0.00	0.00
150.00		415.11	531.79	0.00	0.00
152.00	(25) attachments	6193.91	4552.81	0.00	0.00
155.00		238.61	261.10	0.00	0.00
160.00		386.74	420.91	0.00	0.00
162.00	(24) attachments	4928.45	2849.93	0.00	239.42
	Totals:	**39,991.79**	**55,528.63**	**0.00**	**239.59**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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 + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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	0.00	0.00	0.00	0.086	0.000	19.450	0.00	1.64
5.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.086	0.000	19.450	0.00	68.64
5.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	6.60
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	74.88
5.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	0.36
5.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.086	0.000	19.450	0.00	10.68
5.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	4.80
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	0.96
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	1.64
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.087	0.000	19.450	0.00	68.64
10.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	6.60
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	74.88
10.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	0.36
10.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.087	0.000	19.450	0.00	10.68
10.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	4.80
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	0.96
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	1.64
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.089	0.000	19.450	0.00	68.64
15.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	6.60
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	74.88
15.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	0.36
15.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.089	0.000	19.450	0.00	10.68
15.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	4.80
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	0.96
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	1.64
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.091	0.000	20.638	0.00	68.64
20.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	6.60
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	74.88
20.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	0.36
20.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.091	0.000	20.638	0.00	10.68
20.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	4.80
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	0.96
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	1.64
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.093	0.000	21.630	0.00	68.64
25.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	6.60
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	74.88
25.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	0.36
25.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.093	0.000	21.630	0.00	10.68
25.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	4.80
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	0.96
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	1.64
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.095	0.000	22.477	0.00	68.64
30.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	6.60
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	74.88
30.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	0.36
30.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.095	0.000	22.477	0.00	10.68
30.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	4.80

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 13	

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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)
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	0.96
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	1.64
35.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.097	0.000	23.218	0.00	68.64
35.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	6.60
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	74.88
35.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	0.36
35.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.097	0.000	23.218	0.00	10.68
35.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	4.80
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	0.96
38.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	1.23
38.75	1 5/8" Coax	Yes	3.75	0.000	1.98	0.62	0.00	0.099	0.000	23.721	0.00	51.48
38.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	4.95
38.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	56.16
38.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	0.27
38.75	3" Coax	Yes	3.75	0.000	3.00	0.94	0.00	0.099	0.000	23.721	0.00	8.01
38.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	3.60
38.75	1/2" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	0.72
40.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.41
40.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.100	0.000	23.880	0.00	17.16
40.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	1.65
40.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	18.72
40.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.09
40.00	3" Coax	Yes	1.25	0.000	3.00	0.31	0.00	0.100	0.000	23.880	0.00	2.67
40.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	1.20
40.00	1/2" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.24
45.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	1.64
45.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.101	1.004	24.479	0.00	68.64
45.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	6.60
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	74.88
45.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	0.36
45.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.101	1.004	24.479	0.00	10.68
45.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	4.80
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	0.96
50.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	1.64
50.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.102	1.006	25.029	0.00	68.64
50.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	6.60
50.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	74.88
50.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	0.36
50.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.102	1.006	25.029	0.00	10.68
50.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	4.80
50.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	0.96
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	1.64
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.104	1.013	25.536	0.00	68.64
55.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	6.60
55.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	74.88
55.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	0.36
55.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.104	1.013	25.536	0.00	10.68

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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)
55.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	4.80
55.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	0.96
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	1.64
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.107	1.021	26.008	0.00	68.64
60.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	6.60
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	74.88
60.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	0.36
60.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.107	1.021	26.008	0.00	10.68
60.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	4.80
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	0.96
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	1.64
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.110	1.029	26.450	0.00	68.64
65.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	6.60
65.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	74.88
65.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	0.36
65.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.110	1.029	26.450	0.00	10.68
65.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	4.80
65.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	0.96
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	1.64
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.112	1.037	26.866	0.00	68.64
70.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	6.60
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	74.88
70.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	0.36
70.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.112	1.037	26.866	0.00	10.68
70.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	4.80
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	0.96
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	1.64
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.115	1.046	27.259	0.00	68.64
75.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	6.60
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	74.88
75.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	0.36
75.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.115	1.046	27.259	0.00	10.68
75.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	4.80
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	0.96
78.50	Safety Cable	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	1.15
78.50	1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	0.118	1.053	27.522	0.00	48.05
78.50	1 5/8" Fiber	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	4.62
78.50	1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	52.42
78.50	10 mm	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	0.25
78.50	3" Coax	Yes	3.50	0.000	3.00	0.88	0.00	0.118	1.053	27.522	0.00	7.48
78.50	DC	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	3.36
80.00	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	0.49
80.00	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.119	1.058	27.632	0.00	20.59
80.00	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	1.98
80.00	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	22.46
80.00	10 mm	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	0.11
80.00	3" Coax	Yes	1.50	0.000	3.00	0.38	0.00	0.119	1.058	27.632	0.00	3.20

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 15	

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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)
80.00	DC	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	1.44
83.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	1.23
83.75	1 5/8" Coax	Yes	3.75	0.000	1.98	0.62	0.00	0.121	1.063	27.899	0.00	51.48
83.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	4.95
83.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	56.16
83.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	0.27
83.75	3" Coax	Yes	3.75	0.000	3.00	0.94	0.00	0.121	1.063	27.899	0.00	8.01
83.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	3.60
85.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	0.41
85.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.121	1.063	27.987	0.00	17.16
85.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	1.65
85.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	18.72
85.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	0.09
85.00	3" Coax	Yes	1.25	0.000	3.00	0.31	0.00	0.121	1.063	27.987	0.00	2.67
85.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	1.20
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	1.64
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.123	1.069	28.325	0.00	68.64
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	6.60
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	74.88
90.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	0.36
90.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.123	1.069	28.325	0.00	10.68
90.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	4.80
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	1.64
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.126	1.079	28.650	0.00	68.64
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	6.60
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	74.88
95.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	0.36
95.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.126	1.079	28.650	0.00	10.68
95.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	4.80
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	1.64
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.130	1.090	28.961	0.00	68.64
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	6.60
100.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	74.88
100.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	0.36
100.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.130	1.090	28.961	0.00	10.68
100.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	4.80
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	1.64
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.134	1.102	29.260	0.00	68.64
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	6.60
105.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	74.88
105.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	0.36
105.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.134	1.102	29.260	0.00	10.68
105.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	4.80
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	1.64
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.138	1.115	29.548	0.00	68.64
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	6.60
110.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	74.88

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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)
110.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	0.36
110.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.115	29.548	0.00	10.68
110.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	4.80
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	1.64
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.143	1.128	29.826	0.00	68.64
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	6.60
115.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	74.88
115.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	0.36
115.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.143	1.128	29.826	0.00	10.68
115.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	4.80
119.25	Safety Cable	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	1.39
119.25	1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	0.147	1.141	30.054	0.00	58.34
119.25	1 5/8" Fiber	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	5.61
119.25	1 5/8" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	63.65
119.25	10 mm	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	0.31
119.25	3" Coax	Yes	4.25	0.000	3.00	1.06	0.00	0.147	1.141	30.054	0.00	9.08
119.25	DC	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	4.08
120.00	Safety Cable	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.25
120.00	1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	0.149	1.148	30.094	0.00	10.30
120.00	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.99
120.00	1 5/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	11.23
120.00	10 mm	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.05
120.00	3" Coax	Yes	0.75	0.000	3.00	0.19	0.00	0.149	1.148	30.094	0.00	1.60
120.00	DC	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.72
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	0.66
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.151	1.152	30.199	0.00	27.46
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	2.64
122.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	29.95
122.00	10 mm	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	0.14
122.00	3" Coax	Yes	2.00	0.000	3.00	0.50	0.00	0.151	1.152	30.199	0.00	4.27
122.00	DC	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	1.92
123.50	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	30.277	0.00	0.49
123.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.061	0.000	30.277	0.00	20.59
123.50	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	30.277	0.00	1.98
124.50	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	30.328	0.00	0.33
124.50	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.060	0.000	30.328	0.00	13.73
124.50	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	30.328	0.00	1.32
125.00	Safety Cable	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	30.354	0.00	0.16
125.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.061	0.000	30.354	0.00	6.86
125.00	1 5/8" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	30.354	0.00	0.66
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	30.605	0.00	1.64
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.062	0.000	30.605	0.00	68.64
130.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	30.605	0.00	6.60
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	30.704	0.00	0.66
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	30.704	0.00	27.46
132.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	30.704	0.00	2.64
135.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	30.850	0.00	0.98

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17	

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24

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)
135.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.064	0.000	30.850	0.00	41.18
135.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	30.850	0.00	3.96
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	31.087	0.00	1.64
140.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.066	0.000	31.087	0.00	68.64
140.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	31.087	0.00	6.60
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	31.317	0.00	1.64
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.069	0.000	31.317	0.00	68.64
145.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	31.317	0.00	6.60
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	31.541	0.00	1.64
150.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.072	0.000	31.541	0.00	68.64
150.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	31.541	0.00	6.60
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	31.630	0.00	0.66
152.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.074	0.000	31.630	0.00	27.46
152.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	31.630	0.00	2.64
155.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	31.760	0.00	0.98
160.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.973	0.00	1.64
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.057	0.00	0.66
										Totals:	**0.0**	**4,568.3**

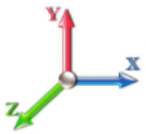
Calculated Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-55.46	-40.09	0.00	-4755.1	0.00	4755.18	5422.04	2711.02	12776.1	6397.58	0.00	0.000	0.000	0.754
5.00	-53.44	-39.74	0.00	-4554.7	0.00	4554.73	5354.65	2677.32	12373.4	6195.90	0.11	-0.200	0.000	0.745
10.00	-51.46	-39.38	0.00	-4356.0	0.00	4356.06	5285.82	2642.91	11973.5	5995.67	0.43	-0.403	0.000	0.736
15.00	-49.51	-39.03	0.00	-4159.1	0.00	4159.15	5215.55	2607.78	11576.7	5796.99	0.96	-0.609	0.000	0.727
20.00	-47.60	-38.64	0.00	-3964.0	0.00	3964.02	5143.86	2571.93	11183.2	5599.96	1.71	-0.818	0.000	0.717
25.00	-45.71	-38.23	0.00	-3770.8	0.00	3770.81	5070.72	2535.36	10793.2	5404.66	2.68	-1.030	0.000	0.707
30.00	-43.86	-37.80	0.00	-3579.6	0.00	3579.66	4996.16	2498.08	10406.9	5211.21	3.87	-1.244	0.000	0.696
35.00	-42.07	-37.33	0.00	-3390.6	0.00	3390.67	4920.16	2460.08	10024.5	5019.70	5.29	-1.460	0.000	0.684
38.75	-40.76	-36.95	0.00	-3250.6	0.00	3250.69	4862.22	2431.11	9740.32	4877.40	6.51	-1.625	0.000	0.675
40.00	-39.97	-36.88	0.00	-3204.5	0.00	3204.50	4842.73	2421.36	9646.11	4830.22	6.94	-1.682	0.000	0.672
45.00	-37.03	-36.35	0.00	-3020.1	0.00	3020.10	3936.38	1968.19	7803.92	3907.76	8.82	-1.902	0.000	0.783
50.00	-35.48	-35.86	0.00	-2838.3	0.00	2838.35	3877.34	1938.67	7510.22	3760.69	10.93	-2.125	0.000	0.764
55.00	-33.96	-35.37	0.00	-2659.0	0.00	2659.04	3816.87	1908.43	7219.20	3614.96	13.29	-2.373	0.000	0.745
60.00	-32.46	-34.86	0.00	-2482.2	0.00	2482.21	3754.96	1877.48	6931.04	3470.67	15.91	-2.622	0.000	0.724
65.00	-31.00	-34.34	0.00	-2307.9	0.00	2307.91	3691.62	1845.81	6645.93	3327.91	18.79	-2.872	0.000	0.702
70.00	-29.57	-33.81	0.00	-2136.2	0.00	2136.20	3626.84	1813.42	6364.09	3186.77	21.93	-3.121	0.000	0.679
75.00	-28.18	-33.21	0.00	-1967.1	0.00	1967.13	3560.63	1780.31	6085.69	3047.37	25.33	-3.370	0.000	0.654
78.50	-27.25	-32.81	0.00	-1850.9	0.00	1850.90	3513.43	1756.71	5892.98	2950.87	27.87	-3.545	0.000	0.635
80.00	-26.56	-32.65	0.00	-1801.6	0.00	1801.68	3492.98	1746.49	5810.95	2909.79	28.99	-3.621	0.000	0.627
83.75	-24.97	-32.16	0.00	-1679.2	0.00	1679.24	2742.50	1371.25	4553.78	2280.28	31.91	-3.806	0.000	0.746
85.00	-24.62	-32.07	0.00	-1639.0	0.00	1639.03	2730.37	1365.18	4502.54	2254.62	32.91	-3.869	0.000	0.737
90.00	-23.45	-31.53	0.00	-1478.6	0.00	1478.67	2680.95	1340.47	4298.92	2152.65	37.11	-4.142	0.000	0.696
95.00	-22.31	-30.97	0.00	-1321.0	0.00	1321.04	2630.10	1315.05	4097.56	2051.82	41.59	-4.410	0.000	0.653
100.00	-21.20	-30.41	0.00	-1166.1	0.00	1166.17	2577.82	1288.91	3898.66	1952.23	46.35	-4.668	0.000	0.606
105.00	-18.81	-28.44	0.00	-1014.1	0.00	1014.11	2524.10	1262.05	3702.43	1853.97	51.36	-4.916	0.000	0.555
110.00	-17.78	-27.86	0.00	-871.94	0.00	871.94	2468.95	1234.47	3509.05	1757.13	56.63	-5.151	0.000	0.504
115.00	-16.79	-27.27	0.00	-732.65	0.00	732.65	2412.36	1206.18	3318.73	1661.83	62.14	-5.370	0.000	0.448
119.25	-15.99	-26.75	0.00	-616.76	0.00	616.76	2363.14	1181.57	3159.50	1582.10	67.00	-5.543	0.000	0.397
120.00	-15.76	-26.66	0.00	-596.69	0.00	596.69	2354.34	1177.17	3131.65	1568.15	67.87	-5.573	0.000	0.388
122.00	-13.56	-22.95	0.00	-543.36	0.00	543.36	2330.73	1165.37	3057.78	1531.16	70.22	-5.649	0.000	0.361
123.50	-13.15	-22.78	0.00	-508.94	0.00	508.94	1751.58	875.79	2319.28	1161.36	72.00	-5.703	0.000	0.446
124.50	-12.50	-21.31	0.00	-486.17	0.00	486.17	1743.79	871.89	2293.08	1148.24	73.20	-5.739	0.000	0.431
125.00	-12.40	-21.28	0.00	-475.51	0.00	475.51	1739.87	869.94	2280.00	1141.69	73.80	-5.760	0.000	0.424
130.00	-11.73	-20.77	0.00	-369.12	0.00	369.12	1699.92	849.96	2150.20	1076.70	79.92	-5.945	0.000	0.350
132.00	-8.62	-14.29	0.00	-327.58	0.00	327.58	1683.54	841.77	2098.80	1050.96	82.42	-6.012	0.000	0.317
135.00	-8.27	-14.01	0.00	-284.70	0.00	284.70	1658.53	829.27	2022.29	1012.65	86.23	-6.106	0.000	0.286
140.00	-7.73	-13.52	0.00	-214.68	0.00	214.68	1615.71	807.86	1896.47	949.64	92.68	-6.241	0.000	0.231
145.00	-7.21	-13.05	0.00	-147.07	0.00	147.07	1571.46	785.73	1772.93	887.78	99.27	-6.351	0.000	0.171
150.00	-6.72	-12.58	0.00	-81.84	0.00	81.84	1525.77	762.88	1651.87	827.16	105.95	-6.429	0.000	0.104
152.00	-2.88	-5.92	0.00	-56.68	0.00	56.68	1507.09	753.54	1604.19	803.29	108.65	-6.450	0.000	0.073
155.00	-2.65	-5.65	0.00	-38.93	0.00	38.93	1478.64	739.32	1533.49	767.89	112.70	-6.474	0.000	0.053
160.00	-2.27	-5.22	0.00	-10.68	0.00	10.68	1426.03	713.01	1413.96	708.03	119.48	-6.495	0.000	0.017
162.00	0.00	-4.93	0.00	-0.24	0.00	0.24	1400.09	700.04	1362.73	682.38	122.19	-6.498	0.000	0.000

Wind Loading - Shaft

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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	0.85	19.450	21.40	437.17	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	19.450	21.40	428.85	0.650	0.000	5.00	24.209	15.74	538.7	0.0	1207.3
10.00		1.00	0.85	19.450	21.40	420.52	0.650	0.000	5.00	23.744	15.43	528.3	0.0	1183.9
15.00		1.00	0.85	19.450	21.40	412.19	0.650	0.000	5.00	23.278	15.13	518.0	0.0	1160.6
20.00		1.00	0.90	20.638	22.70	416.01	0.650	0.000	5.00	22.813	14.83	538.6	0.0	1137.2
25.00		1.00	0.95	21.630	23.79	417.12	0.650	0.000	5.00	22.348	14.53	553.0	0.0	1113.8
30.00		1.00	0.98	22.477	24.72	416.25	0.650	0.000	5.00	21.882	14.22	562.7	0.0	1090.4
35.00		1.00	1.01	23.218	25.54	413.97	0.650	0.000	5.00	21.417	13.92	568.9	0.0	1067.0
38.75	Bot - Section 2	1.00	1.04	23.721	26.09	411.53	0.650	0.000	3.75	15.757	10.24	427.6	0.0	784.9
40.00		1.00	1.04	23.880	26.27	410.60	0.650	0.000	1.25	5.273	3.43	144.1	0.0	484.2
45.00	Top - Section 1	1.00	1.07	24.479	26.93	406.38	0.653 *	0.000	5.00	20.803	13.57	584.8	0.0	1909.5
50.00		1.00	1.09	25.029	27.53	407.91	0.654 *	0.000	5.00	20.338	13.30	585.9	0.0	869.2
55.00		1.00	1.12	25.536	28.09	402.48	0.659 *	0.000	5.00	19.872	13.09	588.2	0.0	849.2
60.00		1.00	1.14	26.008	28.61	396.56	0.663 *	0.000	5.00	19.407	12.88	589.4	0.0	829.1
65.00		1.00	1.16	26.450	29.09	390.21	0.669 *	0.000	5.00	18.941	12.66	589.6	0.0	809.1
70.00		1.00	1.17	26.866	29.55	383.48	0.674 *	0.000	5.00	18.476	12.45	588.8	0.0	789.0
75.00	Appurtenance(s)	1.00	1.19	27.259	29.98	376.42	0.680 *	0.000	5.00	18.010	12.24	587.3	0.0	769.0
78.50	Bot - Section 3	1.00	1.20	27.522	30.27	371.30	0.685 *	0.000	3.50	12.330	8.44	408.9	0.0	526.3
80.00	Appurtenance(s)	1.00	1.21	27.632	30.39	369.06	0.688 *	0.000	1.50	5.294	3.64	177.1	0.0	411.2
83.75	Top - Section 2	1.00	1.22	27.899	30.69	363.37	0.691 *	0.000	3.75	13.051	9.02	442.9	0.0	1013.5
85.00		1.00	1.22	27.987	30.79	367.11	0.691 *	0.000	1.25	4.292	2.96	146.0	0.0	152.9
90.00		1.00	1.24	28.325	31.16	359.28	0.695 *	0.000	5.00	16.878	11.73	584.6	0.0	601.1
95.00		1.00	1.25	28.650	31.51	351.23	0.702 *	0.000	5.00	16.413	11.51	580.6	0.0	584.4
100.00		1.00	1.27	28.961	31.86	342.97	0.709 *	0.000	5.00	15.947	11.30	576.1	0.0	567.7
105.00	Appurtenance(s)	1.00	1.28	29.260	32.19	334.52	0.716 *	0.000	5.00	15.482	11.09	571.1	0.0	551.0
110.00		1.00	1.29	29.548	32.50	325.90	0.724 *	0.000	5.00	15.016	10.88	565.7	0.0	534.3
115.00		1.00	1.30	29.826	32.81	317.12	0.733 *	0.000	5.00	14.551	10.67	559.9	0.0	517.6
119.25	Bot - Section 4	1.00	1.31	30.054	33.06	309.54	0.742 *	0.000	4.25	12.002	8.90	470.8	0.0	426.8
120.00		1.00	1.32	30.094	33.10	308.19	0.746 *	0.000	0.75	2.115	1.58	83.6	0.0	134.3
122.00	Appurtenance(s)	1.00	1.32	30.199	33.22	304.58	0.749 *	0.000	2.00	5.588	4.19	222.5	0.0	354.9
123.50	Top - Section 3	1.00	1.32	30.277	33.30	301.86	0.650	0.000	1.50	4.142	2.69	143.5	0.0	263.0
124.50	Appurtenance(s)	1.00	1.33	30.328	33.36	304.76	0.650	0.000	1.00	2.738	1.78	95.0	0.0	78.0
125.00		1.00	1.33	30.354	33.39	303.85	0.650	0.000	0.50	1.362	0.89	47.3	0.0	38.8
130.00		1.00	1.34	30.605	33.67	294.66	0.650	0.000	5.00	13.366	8.69	468.0	0.0	380.8
132.00	Appurtenance(s)	1.00	1.34	30.704	33.77	290.95	0.650	0.000	2.00	5.216	3.39	183.2	0.0	148.6
135.00		1.00	1.35	30.850	33.93	285.35	0.650	0.000	3.00	7.684	4.99	271.2	0.0	218.9
140.00		1.00	1.36	31.087	34.20	275.92	0.650	0.000	5.00	12.435	8.08	442.2	0.0	354.1
145.00		1.00	1.37	31.317	34.45	266.37	0.650	0.000	5.00	11.970	7.78	428.8	0.0	340.7
150.00		1.00	1.38	31.541	34.70	256.72	0.650	0.000	5.00	11.504	7.48	415.1	0.0	327.3
152.00	Appurtenance(s)	1.00	1.38	31.630	34.79	252.84	0.650	0.000	2.00	4.471	2.91	161.8	0.0	127.2
155.00		1.00	1.39	31.760	34.94	246.97	0.650	0.000	3.00	6.567	4.27	238.6	0.0	186.8
160.00		1.00	1.40	31.973	35.17	237.13	0.650	0.000	5.00	10.573	6.87	386.7	0.0	300.6
162.00	Appurtenance(s)	1.00	1.40	32.057	35.26	233.16	0.650	0.000	2.00	4.099	2.66	150.3	0.0	116.5
								Totals:	**162.00**			**17,315.4**		**25,310.5**

* CfA djusted byL inear Load Ra Effect

Discrete Appurtenance Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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	162.00	Low Profile Platform-flat	1	32.057	35.262	1.00	1.00	25.00	1080.00	0.000	0.000	1410.49	0.00	0.00
2	162.00	ACU-A20-N	4	32.077	35.285	0.75	1.00	0.42	3.60	0.000	0.500	23.71	0.00	11.86
3	162.00	800 MHz Ext. Filter	3	32.057	35.262	0.63	1.00	2.25	17.82	0.000	0.000	126.89	0.00	0.00
4	162.00	800 MHz RRU	3	32.057	35.262	0.75	1.00	5.60	143.10	0.000	0.000	316.09	0.00	0.00
5	162.00	1900MHz RRH	3	32.057	35.262	0.88	1.00	10.03	118.80	0.000	0.000	566.00	0.00	0.00
6	162.00	APXVSPP18-C-A20	3	32.077	35.285	0.66	0.80	15.98	153.90	0.000	0.500	901.94	0.00	450.97
7	162.00	TD-RRH8x20-25	3	32.057	35.262	0.69	1.00	8.38	189.00	0.000	0.000	472.99	0.00	0.00
8	162.00	APXVTM14-C-120	3	32.077	35.285	0.63	0.80	12.02	151.20	0.000	0.500	678.64	0.00	339.32
9	162.00	Flush Mount	1	31.973	35.170	1.00	1.00	5.00	157.50	0.000	-2.000	281.36	0.00	-562.72
10	152.00	782 11056	3	31.630	34.792	0.50	0.75	0.23	4.86	0.000	0.000	12.59	0.00	0.00
11	152.00	KRY 112 144/1	3	31.630	34.792	0.55	0.75	0.57	29.70	0.000	0.000	32.00	0.00	0.00
12	152.00	FE15501P77/75	3	31.630	34.792	0.49	0.75	0.79	47.25	0.000	0.000	43.96	0.00	0.00
13	152.00	APXV18-206516S-A20	3	31.630	34.792	0.57	0.75	7.46	49.95	0.000	0.000	415.04	0.00	0.00
14	152.00	RR90-17-02DP	6	31.630	34.792	0.55	0.75	14.32	72.90	0.000	0.000	797.31	0.00	0.00
15	152.00	APXVAARR24_43-U-NA2	3	31.630	34.792	0.52	0.75	31.88	345.60	0.000	0.000	1774.58	0.00	0.00
16	152.00	Radio 4449 B71+B12	3	31.630	34.792	0.65	0.75	3.81	191.70	0.000	0.000	212.20	0.00	0.00
17	152.00	Platform w/ Hand Rail	1	31.630	34.792	1.00	1.00	49.30	2516.85	0.000	0.000	2744.43	0.00	0.00
18	132.00	FD9R6004/2C-3L	6	30.704	33.774	0.56	0.75	1.22	16.74	0.000	0.000	65.66	0.00	0.00
19	132.00	DB846F65ZAXY	4	30.704	33.774	0.70	0.75	19.67	75.60	0.000	0.000	1062.92	0.00	0.00
20	132.00	LPA-80080-4CF-EDIN-0	2	30.704	33.774	1.27	0.75	6.66	21.60	0.000	0.000	359.66	0.00	0.00
21	132.00	HRK12 (Handrail Kit)	1	30.704	33.774	1.00	1.00	6.75	235.55	0.000	0.000	364.76	0.00	0.00
22	132.00	Raycap	1	30.704	33.774	0.50	0.75	2.04	28.80	0.000	0.000	110.25	0.00	0.00
23	132.00	Samsung RFV01U-D2A	3	30.704	33.774	0.50	0.75	2.83	189.81	0.000	0.000	153.15	0.00	0.00
24	132.00	Samsung RFV01U-D1A	3	30.704	33.774	0.50	0.75	2.83	227.88	0.000	0.000	153.15	0.00	0.00
25	132.00	Samsung MT6407-77A	3	30.704	33.774	0.52	0.75	7.39	214.38	0.000	0.000	399.17	0.00	0.00
26	132.00	JMA Wireless	6	30.704	33.774	0.65	0.75	38.64	248.40	0.000	0.000	2088.12	0.00	0.00
27	132.00	Low Profile	1	30.704	33.774	1.00	1.00	22.00	1350.00	0.000	0.000	1188.86	0.00	0.00
28	124.50	Flush Mount	1	30.328	33.361	1.00	1.00	5.00	157.50	0.000	0.000	266.89	0.00	0.00
29	124.50	RRUS-11	6	30.328	33.361	0.68	1.00	18.03	297.00	0.000	0.000	962.59	0.00	0.00
30	124.50	DC6-48-60-18-8F	1	30.328	33.361	1.00	1.00	1.47	28.62	0.000	0.000	78.46	0.00	0.00
31	122.00	Low Profile Platform-flat	1	30.199	33.219	1.00	1.00	25.00	1080.00	0.000	0.000	1328.75	0.00	0.00
32	122.00	AM-X-CD-16-65-00T-RET	3	30.199	33.219	0.65	0.80	11.76	89.10	0.000	0.000	625.11	0.00	0.00
33	122.00	LGP21903	6	30.199	33.219	0.60	0.80	0.97	29.70	0.000	0.000	51.66	0.00	0.00
34	122.00	LGP21401	6	30.199	33.219	0.60	0.80	4.64	76.14	0.000	0.000	246.83	0.00	0.00
35	122.00	7770.00	6	30.199	33.219	0.58	0.80	19.27	189.00	0.000	0.000	1024.31	0.00	0.00
36	105.00	Low Profile Platform-flat	1	29.260	32.186	1.00	1.00	25.00	1080.00	0.000	0.000	1287.43	0.00	0.00
37	80.00	738-449	1	27.657	30.423	1.00	1.00	0.01	0.45	0.000	0.350	0.49	0.00	0.17
38	75.00	GPS	1	27.259	29.985	1.00	1.00	1.00	9.00	0.000	0.000	47.98	0.00	0.00
							Totals:		**10,919.00**			**22,676.43**		

Total Applied Force Summary

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 21

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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		538.69	1406.30	0.00	0.00
10.00		528.33	1382.91	0.00	0.00
15.00		517.97	1359.51	0.00	0.00
20.00		538.60	1336.12	0.00	0.00
25.00		552.99	1312.73	0.00	0.00
30.00		562.66	1289.34	0.00	0.00
35.00		568.85	1265.95	0.00	0.00
38.75		427.59	934.11	0.00	0.00
40.00		144.06	533.89	0.00	0.00
45.00		584.83	2108.43	0.00	0.00
50.00		585.86	1068.18	0.00	0.00
55.00		588.22	1048.13	0.00	0.00
60.00		589.40	1028.07	0.00	0.00
65.00		589.55	1008.02	0.00	0.00
70.00		588.81	987.97	0.00	0.00
75.00	(1) attachments	635.24	976.92	0.00	0.00
78.50		408.95	665.11	0.00	0.00
80.00	(1) attachments	177.56	471.10	0.00	0.17
83.75		442.90	1161.60	0.00	0.00
85.00		146.02	202.27	0.00	0.00
90.00		584.57	798.64	0.00	0.00
95.00		580.58	781.93	0.00	0.00
100.00		576.09	765.22	0.00	0.00
105.00	(1) attachments	1858.56	1828.51	0.00	0.00
110.00		565.74	731.80	0.00	0.00
115.00		559.94	715.10	0.00	0.00
119.25		470.79	594.69	0.00	0.00
120.00		83.60	163.97	0.00	0.00
122.00	(22) attachments	3499.15	1897.88	0.00	0.00
123.50		143.48	301.89	0.00	0.00
124.50	(8) attachments	1402.95	587.05	0.00	0.00
125.00		47.30	51.76	0.00	0.00
130.00		467.98	510.27	0.00	0.00
132.00	(30) attachments	6128.91	2809.12	0.00	0.00
135.00		271.20	261.76	0.00	0.00
140.00		442.23	425.58	0.00	0.00
145.00		428.83	412.21	0.00	0.00
150.00		415.11	398.85	0.00	0.00
152.00	(25) attachments	6193.91	3414.61	0.00	0.00
155.00		238.61	195.83	0.00	0.00
160.00		386.74	315.68	0.00	0.00
162.00	(24) attachments	4928.45	2137.45	0.00	239.42
	Totals:	**39,991.79**	**41,646.47**	**0.00**	**239.59**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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	0.00	0.00	0.00	0.086	0.000	19.450	0.00	1.23
5.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.086	0.000	19.450	0.00	51.48
5.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	4.95
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	56.16
5.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	0.27
5.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.086	0.000	19.450	0.00	8.01
5.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	3.60
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	19.450	0.00	0.72
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	1.23
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.087	0.000	19.450	0.00	51.48
10.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	4.95
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	56.16
10.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	0.27
10.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.087	0.000	19.450	0.00	8.01
10.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	3.60
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	19.450	0.00	0.72
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	1.23
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.089	0.000	19.450	0.00	51.48
15.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	4.95
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	56.16
15.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	0.27
15.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.089	0.000	19.450	0.00	8.01
15.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	3.60
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	19.450	0.00	0.72
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	1.23
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.091	0.000	20.638	0.00	51.48
20.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	4.95
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	56.16
20.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	0.27
20.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.091	0.000	20.638	0.00	8.01
20.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	3.60
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	20.638	0.00	0.72
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	1.23
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.093	0.000	21.630	0.00	51.48
25.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	4.95
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	56.16
25.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	0.27
25.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.093	0.000	21.630	0.00	8.01
25.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	3.60
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	21.630	0.00	0.72
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	1.23
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.095	0.000	22.477	0.00	51.48
30.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	4.95
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	56.16
30.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	0.27
30.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.095	0.000	22.477	0.00	8.01
30.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	3.60

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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)
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	22.477	0.00	0.72
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	1.23
35.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.097	0.000	23.218	0.00	51.48
35.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	4.95
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	56.16
35.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	0.27
35.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.097	0.000	23.218	0.00	8.01
35.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	3.60
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	23.218	0.00	0.72
38.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	0.92
38.75	1 5/8" Coax	Yes	3.75	0.000	1.98	0.62	0.00	0.099	0.000	23.721	0.00	38.61
38.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	3.71
38.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	42.12
38.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	0.20
38.75	3" Coax	Yes	3.75	0.000	3.00	0.94	0.00	0.099	0.000	23.721	0.00	6.01
38.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	2.70
38.75	1/2" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	23.721	0.00	0.54
40.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.31
40.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.100	0.000	23.880	0.00	12.87
40.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	1.24
40.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	14.04
40.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.07
40.00	3" Coax	Yes	1.25	0.000	3.00	0.31	0.00	0.100	0.000	23.880	0.00	2.00
40.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.90
40.00	1/2" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	23.880	0.00	0.18
45.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	1.23
45.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.101	1.004	24.479	0.00	51.48
45.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	4.95
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	56.16
45.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	0.27
45.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.101	1.004	24.479	0.00	8.01
45.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	3.60
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	24.479	0.00	0.72
50.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	1.23
50.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.102	1.006	25.029	0.00	51.48
50.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	4.95
50.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	56.16
50.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	0.27
50.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.102	1.006	25.029	0.00	8.01
50.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	3.60
50.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	25.029	0.00	0.72
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	1.23
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.104	1.013	25.536	0.00	51.48
55.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	4.95
55.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	56.16
55.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	0.27
55.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.104	1.013	25.536	0.00	8.01

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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)
55.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	3.60
55.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	25.536	0.00	0.72
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	1.23
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.107	1.021	26.008	0.00	51.48
60.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	4.95
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	56.16
60.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	0.27
60.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.107	1.021	26.008	0.00	8.01
60.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	3.60
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	26.008	0.00	0.72
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	1.23
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.110	1.029	26.450	0.00	51.48
65.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	4.95
65.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	56.16
65.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	0.27
65.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.110	1.029	26.450	0.00	8.01
65.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	3.60
65.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	26.450	0.00	0.72
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	1.23
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.112	1.037	26.866	0.00	51.48
70.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	4.95
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	56.16
70.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	0.27
70.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.112	1.037	26.866	0.00	8.01
70.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	3.60
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	26.866	0.00	0.72
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	1.23
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.115	1.046	27.259	0.00	51.48
75.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	4.95
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	56.16
75.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	0.27
75.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.115	1.046	27.259	0.00	8.01
75.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	3.60
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	27.259	0.00	0.72
78.50	Safety Cable	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	0.86
78.50	1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	0.118	1.053	27.522	0.00	36.04
78.50	1 5/8" Fiber	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	3.47
78.50	1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	39.31
78.50	10 mm	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	0.19
78.50	3" Coax	Yes	3.50	0.000	3.00	0.88	0.00	0.118	1.053	27.522	0.00	5.61
78.50	DC	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	27.522	0.00	2.52
80.00	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	0.37
80.00	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.119	1.058	27.632	0.00	15.44
80.00	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	1.49
80.00	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	16.85
80.00	10 mm	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	0.08
80.00	3" Coax	Yes	1.50	0.000	3.00	0.38	0.00	0.119	1.058	27.632	0.00	2.40

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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)
80.00	DC	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	27.632	0.00	1.08
83.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	0.92
83.75	1 5/8" Coax	Yes	3.75	0.000	1.98	0.62	0.00	0.121	1.063	27.899	0.00	38.61
83.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	3.71
83.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	42.12
83.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	0.20
83.75	3" Coax	Yes	3.75	0.000	3.00	0.94	0.00	0.121	1.063	27.899	0.00	6.01
83.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	27.899	0.00	2.70
85.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	0.31
85.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.121	1.063	27.987	0.00	12.87
85.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	1.24
85.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	14.04
85.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	0.07
85.00	3" Coax	Yes	1.25	0.000	3.00	0.31	0.00	0.121	1.063	27.987	0.00	2.00
85.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	27.987	0.00	0.90
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	1.23
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.123	1.069	28.325	0.00	51.48
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	4.95
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	56.16
90.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	0.27
90.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.123	1.069	28.325	0.00	8.01
90.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	28.325	0.00	3.60
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	1.23
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.126	1.079	28.650	0.00	51.48
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	4.95
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	56.16
95.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	0.27
95.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.126	1.079	28.650	0.00	8.01
95.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	28.650	0.00	3.60
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	1.23
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.130	1.090	28.961	0.00	51.48
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	4.95
100.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	56.16
100.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	0.27
100.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.130	1.090	28.961	0.00	8.01
100.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	28.961	0.00	3.60
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	1.23
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.134	1.102	29.260	0.00	51.48
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	4.95
105.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	56.16
105.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	0.27
105.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.134	1.102	29.260	0.00	8.01
105.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	29.260	0.00	3.60
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	1.23
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.138	1.115	29.548	0.00	51.48
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	4.95
110.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	56.16

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 26	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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)
110.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	0.27
110.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.115	29.548	0.00	8.01
110.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	29.548	0.00	3.60
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	1.23
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.143	1.128	29.826	0.00	51.48
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	4.95
115.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	56.16
115.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	0.27
115.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.143	1.128	29.826	0.00	8.01
115.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	29.826	0.00	3.60
119.25	Safety Cable	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	1.04
119.25	1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	0.147	1.141	30.054	0.00	43.76
119.25	1 5/8" Fiber	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	4.21
119.25	1 5/8" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	47.74
119.25	10 mm	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	0.23
119.25	3" Coax	Yes	4.25	0.000	3.00	1.06	0.00	0.147	1.141	30.054	0.00	6.81
119.25	DC	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	30.054	0.00	3.06
120.00	Safety Cable	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.18
120.00	1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	0.149	1.148	30.094	0.00	7.72
120.00	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.74
120.00	1 5/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	8.42
120.00	10 mm	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.04
120.00	3" Coax	Yes	0.75	0.000	3.00	0.19	0.00	0.149	1.148	30.094	0.00	1.20
120.00	DC	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	30.094	0.00	0.54
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	0.49
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.151	1.152	30.199	0.00	20.59
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	1.98
122.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	22.46
122.00	10 mm	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	0.11
122.00	3" Coax	Yes	2.00	0.000	3.00	0.50	0.00	0.151	1.152	30.199	0.00	3.20
122.00	DC	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	30.199	0.00	1.44
123.50	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	30.277	0.00	0.37
123.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.061	0.000	30.277	0.00	15.44
123.50	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	30.277	0.00	1.49
124.50	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	30.328	0.00	0.25
124.50	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.060	0.000	30.328	0.00	10.30
124.50	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	30.328	0.00	0.99
125.00	Safety Cable	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	30.354	0.00	0.12
125.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.061	0.000	30.354	0.00	5.15
125.00	1 5/8" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	30.354	0.00	0.50
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	30.605	0.00	1.23
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.062	0.000	30.605	0.00	51.48
130.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	30.605	0.00	4.95
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	30.704	0.00	0.49
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	30.704	0.00	20.59
132.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	30.704	0.00	1.98
135.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	30.850	0.00	0.74

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60

Iterations 24

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)
135.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.064	0.000	30.850	0.00	30.89
135.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	30.850	0.00	2.97
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	31.087	0.00	1.23
140.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.066	0.000	31.087	0.00	51.48
140.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	31.087	0.00	4.95
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	31.317	0.00	1.23
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.069	0.000	31.317	0.00	51.48
145.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	31.317	0.00	4.95
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	31.541	0.00	1.23
150.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.072	0.000	31.541	0.00	51.48
150.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	31.541	0.00	4.95
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	31.630	0.00	0.49
152.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.074	0.000	31.630	0.00	20.59
152.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	31.630	0.00	1.98
155.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	31.760	0.00	0.74
160.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.973	0.00	1.23
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	32.057	0.00	0.49
										Totals:	**0.0**	**3,426.3**

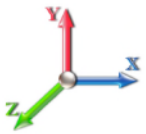
Calculated Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 28	

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 24

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	-41.58	-40.06	0.00	-4701.2	0.00	4701.24	5422.04	2711.02	12776.1	6397.58	0.00	0.000	0.000	0.743
5.00	-40.03	-39.66	0.00	-4500.9	0.00	4500.92	5354.65	2677.32	12373.4	6195.90	0.11	-0.198	0.000	0.734
10.00	-38.51	-39.26	0.00	-4302.6	0.00	4302.61	5285.82	2642.91	11973.5	5995.67	0.42	-0.399	0.000	0.725
15.00	-37.02	-38.87	0.00	-4106.3	0.00	4106.30	5215.55	2607.78	11576.7	5796.99	0.95	-0.602	0.000	0.716
20.00	-35.55	-38.44	0.00	-3911.9	0.00	3911.97	5143.86	2571.93	11183.2	5599.96	1.69	-0.808	0.000	0.706
25.00	-34.11	-37.99	0.00	-3719.7	0.00	3719.78	5070.72	2535.36	10793.2	5404.66	2.65	-1.017	0.000	0.695
30.00	-32.69	-37.52	0.00	-3529.8	0.00	3529.82	4996.16	2498.08	10406.9	5211.21	3.83	-1.228	0.000	0.684
35.00	-31.32	-37.03	0.00	-3342.2	0.00	3342.20	4920.16	2460.08	10024.5	5019.70	5.23	-1.441	0.000	0.672
38.75	-30.33	-36.63	0.00	-3203.3	0.00	3203.35	4862.22	2431.11	9740.32	4877.40	6.43	-1.604	0.000	0.663
40.00	-29.71	-36.55	0.00	-3157.5	0.00	3157.55	4842.73	2421.36	9646.11	4830.22	6.85	-1.660	0.000	0.660
45.00	-27.48	-36.00	0.00	-2974.8	0.00	2974.82	3936.38	1968.19	7803.92	3907.76	8.71	-1.877	0.000	0.769
50.00	-26.29	-35.49	0.00	-2794.8	0.00	2794.82	3877.34	1938.67	7510.22	3760.69	10.79	-2.096	0.000	0.750
55.00	-25.12	-34.97	0.00	-2617.3	0.00	2617.39	3816.87	1908.43	7219.20	3614.96	13.12	-2.341	0.000	0.731
60.00	-23.97	-34.44	0.00	-2442.5	0.00	2442.56	3754.96	1877.48	6931.04	3470.67	15.70	-2.586	0.000	0.710
65.00	-22.85	-33.90	0.00	-2270.3	0.00	2270.39	3691.62	1845.81	6645.93	3327.91	18.54	-2.831	0.000	0.689
70.00	-21.75	-33.35	0.00	-2100.9	0.00	2100.91	3626.84	1813.42	6364.09	3186.77	21.64	-3.077	0.000	0.666
75.00	-20.69	-32.74	0.00	-1934.1	0.00	1934.15	3560.63	1780.31	6085.69	3047.37	24.99	-3.321	0.000	0.641
78.50	-19.98	-32.33	0.00	-1819.5	0.00	1819.57	3513.43	1756.71	5892.98	2950.87	27.49	-3.493	0.000	0.623
80.00	-19.45	-32.17	0.00	-1771.0	0.00	1771.07	3492.98	1746.49	5810.95	2909.79	28.60	-3.568	0.000	0.615
83.75	-18.25	-31.69	0.00	-1650.4	0.00	1650.44	2742.50	1371.25	4553.78	2280.28	31.47	-3.750	0.000	0.731
85.00	-17.97	-31.59	0.00	-1610.8	0.00	1610.82	2730.37	1365.18	4502.54	2254.62	32.46	-3.811	0.000	0.722
90.00	-17.07	-31.03	0.00	-1452.8	0.00	1452.89	2680.95	1340.47	4298.92	2152.65	36.60	-4.081	0.000	0.682
95.00	-16.19	-30.46	0.00	-1297.7	0.00	1297.75	2630.10	1315.05	4097.56	2051.82	41.01	-4.343	0.000	0.639
100.00	-15.34	-29.90	0.00	-1145.4	0.00	1145.43	2577.82	1288.91	3898.66	1952.23	45.69	-4.597	0.000	0.593
105.00	-13.56	-27.95	0.00	-995.94	0.00	995.94	2524.10	1262.05	3702.43	1853.97	50.63	-4.841	0.000	0.543
110.00	-12.77	-27.37	0.00	-856.19	0.00	856.19	2468.95	1234.47	3509.05	1757.13	55.82	-5.071	0.000	0.493
115.00	-12.02	-26.79	0.00	-719.32	0.00	719.32	2412.36	1206.18	3318.73	1661.83	61.25	-5.286	0.000	0.438
119.25	-11.43	-26.29	0.00	-605.45	0.00	605.45	2363.14	1181.57	3159.50	1582.10	66.02	-5.456	0.000	0.388
120.00	-11.25	-26.20	0.00	-585.73	0.00	585.73	2354.34	1177.17	3131.65	1568.15	66.88	-5.485	0.000	0.379
122.00	-9.67	-22.54	0.00	-533.34	0.00	533.34	2330.73	1165.37	3057.78	1531.16	69.19	-5.560	0.000	0.353
123.50	-9.37	-22.38	0.00	-499.52	0.00	499.52	1751.58	875.79	2319.28	1161.36	70.95	-5.613	0.000	0.436
124.50	-8.91	-20.93	0.00	-477.14	0.00	477.14	1743.79	871.89	2293.08	1148.24	72.13	-5.648	0.000	0.421
125.00	-8.83	-20.89	0.00	-466.68	0.00	466.68	1739.87	869.94	2280.00	1141.69	72.72	-5.669	0.000	0.414
130.00	-8.32	-20.39	0.00	-362.21	0.00	362.21	1699.92	849.96	2150.20	1076.70	78.75	-5.850	0.000	0.342
132.00	-6.14	-14.02	0.00	-321.42	0.00	321.42	1683.54	841.77	2098.80	1050.96	81.21	-5.917	0.000	0.310
135.00	-5.88	-13.73	0.00	-279.37	0.00	279.37	1658.53	829.27	2022.29	1012.65	84.95	-6.008	0.000	0.280
140.00	-5.47	-13.26	0.00	-210.70	0.00	210.70	1615.71	807.86	1896.47	949.64	91.30	-6.141	0.000	0.226
145.00	-5.09	-12.80	0.00	-144.40	0.00	144.40	1571.46	785.73	1772.93	887.78	97.78	-6.249	0.000	0.166
150.00	-4.73	-12.35	0.00	-80.41	0.00	80.41	1525.77	762.88	1651.87	827.16	104.36	-6.326	0.000	0.101
152.00	-2.02	-5.81	0.00	-55.72	0.00	55.72	1507.09	753.54	1604.19	803.29	107.01	-6.347	0.000	0.071
155.00	-1.85	-5.55	0.00	-38.28	0.00	38.28	1478.64	739.32	1533.49	767.89	111.00	-6.369	0.000	0.051
160.00	-1.58	-5.14	0.00	-10.51	0.00	10.51	1426.03	713.01	1413.96	708.03	117.67	-6.391	0.000	0.016
162.00	0.00	-4.93	0.00	-0.24	0.00	0.24	1400.09	700.04	1362.73	682.38	120.34	-6.393	0.000	0.000

Wind Loading - Shaft

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 29	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.242	5.00	25.244	30.29	172.2	450.6	2060.4
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.331	5.00	24.853	29.82	169.5	474.5	2053.1
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.386	5.00	24.434	29.32	166.7	485.1	2032.5
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.427	5.00	24.002	28.80	173.7	489.7	2005.9
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.459	5.00	23.563	28.28	178.8	491.0	1976.0
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.486	5.00	23.120	27.74	182.3	490.0	1943.9
35.00		1.00	1.01	6.169	6.79	0.00	1.200	1.509	5.00	22.674	27.21	184.6	487.5	1910.1
38.75	Bot - Section 2	1.00	1.04	6.303	6.93	0.00	1.200	1.524	3.75	16.710	20.05	139.0	363.5	1410.1
40.00		1.00	1.04	6.345	6.98	0.00	1.200	1.529	1.25	5.592	6.71	46.8	122.7	768.3
45.00	Top - Section 1	1.00	1.07	6.504	7.15	0.00	1.205 *	1.547	5.00	22.092	26.61	190.4	486.2	3032.1
50.00		1.00	1.09	6.650	7.32	0.00	1.207 *	1.564	5.00	21.641	26.13	191.1	480.7	1639.7
55.00		1.00	1.12	6.785	7.46	0.00	1.216 *	1.579	5.00	21.188	25.76	192.3	474.6	1606.8
60.00		1.00	1.14	6.910	7.60	0.00	1.225 *	1.592	5.00	20.734	25.40	193.1	467.9	1573.4
65.00		1.00	1.16	7.028	7.73	0.00	1.234 *	1.605	5.00	20.279	25.03	193.5	460.7	1539.5
70.00		1.00	1.17	7.138	7.85	0.00	1.244 *	1.617	5.00	19.823	24.67	193.7	453.1	1505.1
75.00	Appurtenance(s)	1.00	1.19	7.243	7.97	0.00	1.255 *	1.628	5.00	19.367	24.30	193.6	445.1	1470.4
78.50	Bot - Section 3	1.00	1.20	7.313	8.04	0.00	1.264 *	1.636	3.50	13.284	16.79	135.1	307.5	1009.3
80.00	Appurtenance(s)	1.00	1.21	7.342	8.08	0.00	1.270 *	1.639	1.50	5.704	7.24	58.5	133.0	681.2
83.75	Top - Section 2	1.00	1.22	7.413	8.15	0.00	1.276 *	1.646	3.75	14.080	17.97	146.5	327.6	1678.9
85.00		1.00	1.22	7.436	8.18	0.00	1.275 *	1.649	1.25	4.636	5.91	48.4	108.7	312.5
90.00		1.00	1.24	7.526	8.28	0.00	1.283 *	1.658	5.00	18.260	23.42	193.9	425.8	1227.3
95.00		1.00	1.25	7.612	8.37	0.00	1.295 *	1.667	5.00	17.802	23.06	193.1	416.7	1195.9
100.00		1.00	1.27	7.695	8.46	0.00	1.308 *	1.676	5.00	17.344	22.69	192.1	407.4	1164.3
105.00	Appurtenance(s)	1.00	1.28	7.774	8.55	0.00	1.323 *	1.684	5.00	16.885	22.33	191.0	397.9	1132.5
110.00		1.00	1.29	7.851	8.64	0.00	1.337 *	1.692	5.00	16.426	21.97	189.7	388.1	1100.5
115.00		1.00	1.30	7.925	8.72	0.00	1.353 *	1.699	5.00	15.967	21.61	188.4	378.2	1068.3
119.25	Bot - Section 4	1.00	1.31	7.986	8.78	0.00	1.369 *	1.706	4.25	13.210	18.09	158.9	314.2	883.3
120.00		1.00	1.32	7.996	8.80	0.00	1.378 *	1.707	0.75	2.328	3.21	28.2	56.0	235.1
122.00	Appurtenance(s)	1.00	1.32	8.024	8.83	0.00	1.383 *	1.710	2.00	6.158	8.52	75.2	147.8	621.0
123.50	Top - Section 3	1.00	1.32	8.045	8.85	0.00	1.200	1.712	1.50	4.570	5.48	48.5	109.9	460.6
124.50	Appurtenance(s)	1.00	1.33	8.058	8.86	0.00	1.200	1.713	1.00	3.024	3.63	32.2	72.9	176.9
125.00		1.00	1.33	8.065	8.87	0.00	1.200	1.714	0.50	1.505	1.81	16.0	36.3	88.1
130.00		1.00	1.34	8.132	8.95	0.00	1.200	1.720	5.00	14.800	17.76	158.9	352.9	860.7
132.00	Appurtenance(s)	1.00	1.34	8.158	8.97	0.00	1.200	1.723	2.00	5.790	6.95	62.4	139.5	337.6
135.00		1.00	1.35	8.197	9.02	0.00	1.200	1.727	3.00	8.548	10.26	92.5	205.5	497.3
140.00		1.00	1.36	8.260	9.09	0.00	1.200	1.733	5.00	13.879	16.66	151.3	331.8	803.9
145.00		1.00	1.37	8.321	9.15	0.00	1.200	1.739	5.00	13.419	16.10	147.4	321.0	775.3
150.00		1.00	1.38	8.381	9.22	0.00	1.200	1.745	5.00	12.958	15.55	143.4	310.2	746.6
152.00	Appurtenance(s)	1.00	1.38	8.404	9.24	0.00	1.200	1.748	2.00	5.054	6.06	56.1	122.3	291.9
155.00		1.00	1.39	8.439	9.28	0.00	1.200	1.751	3.00	7.443	8.93	82.9	179.5	428.5
160.00		1.00	1.40	8.495	9.34	0.00	1.200	1.757	5.00	12.037	14.44	135.0	288.1	688.9
162.00	Appurtenance(s)	1.00	1.40	8.518	9.37	0.00	1.200	1.759	2.00	4.685	5.62	52.7	113.4	268.8
								Totals:	**162.00**			**5,739.2**		**47,262.6**

* CfA djusted byL inear Load Ra Effect

Discrete Appurtenance Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 30	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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	162.00	Low Profile Platform-flat	1	8.518	9.369	1.00	1.00	46.10	2195.22	0.000	0.000	431.97	0.00	0.00
2	162.00	ACU-A20-N	4	8.523	9.375	0.75	1.00	1.32	16.92	0.000	0.500	12.35	0.00	6.17
3	162.00	800 MHz Ext. Filter	3	8.518	9.369	0.63	1.00	3.75	76.34	0.000	0.000	35.11	0.00	0.00
4	162.00	800 MHz RRU	3	8.518	9.369	0.75	1.00	8.20	351.09	0.000	0.000	76.79	0.00	0.00
5	162.00	1900MHz RRH	3	8.518	9.369	0.88	1.00	13.73	394.82	0.000	0.000	128.64	0.00	0.00
6	162.00	APXVSPP18-C-A20	3	8.523	9.375	0.66	0.80	21.58	579.26	0.000	0.500	202.36	0.00	101.18
7	162.00	TD-RRH8x20-25	3	8.518	9.369	0.69	1.00	10.08	586.49	0.000	0.000	94.45	0.00	0.00
8	162.00	APXVTM14-C-120	3	8.523	9.375	0.63	0.80	14.15	687.31	0.000	0.500	132.65	0.00	66.33
9	162.00	Flush Mount	1	8.495	9.345	1.00	1.00	8.52	307.73	0.000	-2.000	79.59	0.00	-159.19
10	152.00	782 11056	3	8.404	9.244	0.50	0.75	0.55	11.97	0.000	0.000	5.09	0.00	0.00
11	152.00	KRY 112 144/1	3	8.404	9.244	0.58	0.75	1.33	62.69	0.000	0.000	12.27	0.00	0.00
12	152.00	FE15501P77/75	3	8.404	9.244	0.49	0.75	1.28	119.69	0.000	0.000	11.81	0.00	0.00
13	152.00	APXV18-206516S-A20	3	8.404	9.244	0.58	0.75	11.59	214.25	0.000	0.000	107.18	0.00	0.00
14	152.00	RR90-17-02DP	6	8.404	9.244	0.55	0.75	17.57	690.41	0.000	0.000	162.39	0.00	0.00
15	152.00	APXVAARR24_43-U-NA2	3	8.404	9.244	0.52	0.75	34.87	1716.47	0.000	0.000	322.40	0.00	0.00
16	152.00	Radio 4449 B71+B12	3	8.404	9.244	0.65	0.75	4.87	375.15	0.000	0.000	45.04	0.00	0.00
17	152.00	Platform w/ Hand Rail	1	8.404	9.244	1.00	1.00	92.38	7627.30	0.000	0.000	853.97	0.00	0.00
18	132.00	FD9R6004/2C-3L	6	8.158	8.974	0.56	0.75	2.69	56.07	0.000	0.000	24.16	0.00	0.00
19	132.00	DB846F65ZAXY	4	8.158	8.974	0.70	0.75	23.06	878.42	0.000	0.000	206.91	0.00	0.00
20	132.00	LPA-80080-4CF-EDIN-0	2	8.158	8.974	1.27	0.75	8.92	190.90	0.000	0.000	80.02	0.00	0.00
21	132.00	HRK12 (Handrail Kit)	1	8.158	8.974	1.00	1.00	13.26	882.43	0.000	0.000	119.02	0.00	0.00
22	132.00	Raycap	1	8.158	8.974	0.50	0.75	2.45	125.68	0.000	0.000	21.97	0.00	0.00
23	132.00	Samsung RFV01U-D2A	3	8.158	8.974	0.50	0.75	3.65	362.33	0.000	0.000	32.80	0.00	0.00
24	132.00	Samsung RFV01U-D1A	3	8.158	8.974	0.50	0.75	3.65	350.06	0.000	0.000	32.80	0.00	0.00
25	132.00	Samsung MT6407-77A	3	8.158	8.974	0.56	0.75	9.49	638.96	0.000	0.000	85.18	0.00	0.00
26	132.00	JMA Wireless	6	8.158	8.974	0.65	0.75	43.96	1921.44	0.000	0.000	394.45	0.00	0.00
27	132.00	Low Profile	1	8.158	8.974	1.00	1.00	39.44	2792.29	0.000	0.000	353.91	0.00	0.00
28	124.50	Flush Mount	1	8.058	8.864	1.00	1.00	8.43	303.89	0.000	0.000	74.69	0.00	0.00
29	124.50	RRUS-11	6	8.058	8.864	0.68	1.00	24.04	771.59	0.000	0.000	213.08	0.00	0.00
30	124.50	DC6-48-60-18-8F	1	8.058	8.864	1.00	1.00	2.16	81.14	0.000	0.000	19.12	0.00	0.00
31	122.00	Low Profile Platform-flat	1	8.024	8.826	1.00	1.00	45.51	2165.72	0.000	0.000	401.72	0.00	0.00
32	122.00	AM-X-CD-16-65-00T-RET	3	8.024	8.826	0.65	0.80	15.76	419.78	0.000	0.000	139.09	0.00	0.00
33	122.00	LGP21903	6	8.024	8.826	0.60	0.80	2.37	74.73	0.000	0.000	20.96	0.00	0.00
34	122.00	LGP21401	6	8.024	8.826	0.60	0.80	7.59	205.86	0.000	0.000	67.00	0.00	0.00
35	122.00	7770.00	6	8.024	8.826	0.58	0.80	22.92	1042.76	0.000	0.000	202.33	0.00	0.00
36	105.00	Low Profile Platform-flat	1	7.774	8.552	1.00	1.00	45.21	2150.44	0.000	0.000	386.62	0.00	0.00
37	80.00	738-449	1	7.349	8.083	1.00	1.00	0.07	1.84	0.000	0.350	0.55	0.00	0.19
38	75.00	GPS	1	7.243	7.967	1.00	1.00	1.66	31.36	0.000	0.000	13.26	0.00	0.00
							Totals:		**31,460.79**			**5,603.69**		

Total Applied Force Summary

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 31

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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		172.21	2703.17	0.00	0.00
10.00		169.54	2725.62	0.00	0.00
15.00		166.68	2723.75	0.00	0.00
20.00		173.73	2711.21	0.00	0.00
25.00		178.76	2692.54	0.00	0.00
30.00		182.26	2669.83	0.00	0.00
35.00		184.64	2644.24	0.00	0.00
38.75		139.02	1964.78	0.00	0.00
40.00		46.84	953.59	0.00	0.00
45.00		190.41	3779.98	0.00	0.00
50.00		191.12	2393.41	0.00	0.00
55.00		192.27	2365.95	0.00	0.00
60.00		193.05	2337.53	0.00	0.00
65.00		193.51	2308.28	0.00	0.00
70.00		193.68	2278.30	0.00	0.00
75.00	(1) attachments	206.87	2279.05	0.00	0.00
78.50		135.08	1540.21	0.00	0.00
80.00	(1) attachments	59.04	910.89	0.00	0.19
83.75		146.49	2249.75	0.00	0.00
85.00		48.35	503.01	0.00	0.00
90.00		193.89	1992.55	0.00	0.00
95.00		193.06	1964.30	0.00	0.00
100.00		192.08	1935.69	0.00	0.00
105.00	(1) attachments	577.59	4057.18	0.00	0.00
110.00		189.73	1877.48	0.00	0.00
115.00		188.37	1847.93	0.00	0.00
119.25		158.86	1547.80	0.00	0.00
120.00		28.22	352.47	0.00	0.00
122.00	(22) attachments	906.26	4843.12	0.00	0.00
123.50		48.53	582.69	0.00	0.00
124.50	(8) attachments	339.06	1414.94	0.00	0.00
125.00		16.02	128.80	0.00	0.00
130.00		158.86	1268.87	0.00	0.00
132.00	(30) attachments	1413.56	8699.63	0.00	0.00
135.00		92.49	696.43	0.00	0.00
140.00		151.33	1136.82	0.00	0.00
145.00		147.39	1109.19	0.00	0.00
150.00		143.35	1081.43	0.00	0.00
152.00	(25) attachments	1576.22	11243.89	0.00	0.00
155.00		82.91	453.40	0.00	0.00
160.00		134.98	730.44	0.00	0.00
162.00	(24) attachments	1246.59	5480.60	0.00	14.49
	Totals:	**11,342.91**	**99,180.74**	**0.00**	**14.68**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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	0.00	0.00	0.00	0.086	0.000	5.168	0.00	12.93
5.00	1 5/8" Coax	Yes	5.00	0.000	1.98	1.86	0.00	0.086	0.000	5.168	0.00	201.26
5.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	5.168	0.00	27.35
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	5.168	0.00	218.70
5.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	5.168	0.00	11.68
5.00	3" Coax	Yes	5.00	0.000	3.00	2.29	0.00	0.086	0.000	5.168	0.00	38.50
5.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	5.168	0.00	21.94
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	5.168	0.00	13.70
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	5.168	0.00	14.46
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	1.93	0.00	0.087	0.000	5.168	0.00	210.21
10.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	5.168	0.00	29.45
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	5.168	0.00	228.34
10.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	5.168	0.00	13.21
10.00	3" Coax	Yes	5.00	0.000	3.00	2.36	0.00	0.087	0.000	5.168	0.00	40.94
10.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	5.168	0.00	23.86
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	5.168	0.00	15.33
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	5.168	0.00	15.46
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	1.98	0.00	0.089	0.000	5.168	0.00	215.79
15.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	5.168	0.00	30.79
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	5.168	0.00	234.34
15.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	5.168	0.00	14.21
15.00	3" Coax	Yes	5.00	0.000	3.00	2.41	0.00	0.089	0.000	5.168	0.00	42.51
15.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	5.168	0.00	25.10
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	5.168	0.00	16.38
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	5.483	0.00	16.21
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.01	0.00	0.091	0.000	5.483	0.00	219.91
20.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	5.483	0.00	31.80
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	5.483	0.00	238.78
20.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	5.483	0.00	14.96
20.00	3" Coax	Yes	5.00	0.000	3.00	2.44	0.00	0.091	0.000	5.483	0.00	43.68
20.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	5.483	0.00	26.03
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	5.483	0.00	17.18
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.747	0.00	16.83
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.04	0.00	0.093	0.000	5.747	0.00	223.21
25.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.747	0.00	32.62
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.747	0.00	242.32
25.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.747	0.00	15.58
25.00	3" Coax	Yes	5.00	0.000	3.00	2.47	0.00	0.093	0.000	5.747	0.00	44.62
25.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.747	0.00	26.78
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.747	0.00	17.83
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	5.972	0.00	17.35
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.06	0.00	0.095	0.000	5.972	0.00	225.96
30.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	5.972	0.00	33.31
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	5.972	0.00	245.28
30.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	5.972	0.00	16.10
30.00	3" Coax	Yes	5.00	0.000	3.00	2.49	0.00	0.095	0.000	5.972	0.00	45.42
30.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	5.972	0.00	27.42

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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)
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	5.972	0.00	18.38
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	6.169	0.00	17.80
35.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.08	0.00	0.097	0.000	6.169	0.00	228.34
35.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	6.169	0.00	33.91
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	6.169	0.00	247.84
35.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	6.169	0.00	16.56
35.00	3" Coax	Yes	5.00	0.000	3.00	2.51	0.00	0.097	0.000	6.169	0.00	46.11
35.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	6.169	0.00	27.98
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	6.169	0.00	18.86
38.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	6.303	0.00	13.58
38.75	1 5/8" Coax	Yes	3.75	0.000	1.98	1.57	0.00	0.099	0.000	6.303	0.00	172.45
38.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	6.303	0.00	25.74
38.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	6.303	0.00	187.16
38.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	6.303	0.00	12.65
38.75	3" Coax	Yes	3.75	0.000	3.00	1.89	0.00	0.099	0.000	6.303	0.00	34.94
38.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	6.303	0.00	21.27
38.75	1/2" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	6.303	0.00	14.39
40.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	6.345	0.00	4.55
40.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.52	0.00	0.100	0.000	6.345	0.00	57.61
40.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	6.345	0.00	8.61
40.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	6.345	0.00	62.52
40.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	6.345	0.00	4.24
40.00	3" Coax	Yes	1.25	0.000	3.00	0.63	0.00	0.100	0.000	6.345	0.00	11.68
40.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	6.345	0.00	7.12
40.00	1/2" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	6.345	0.00	4.82
45.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	6.504	0.00	18.58
45.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.11	0.00	0.101	1.004	6.504	0.00	232.31
45.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	6.504	0.00	34.93
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	6.504	0.00	252.10
45.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	6.504	0.00	17.33
45.00	3" Coax	Yes	5.00	0.000	3.00	2.54	0.00	0.101	1.004	6.504	0.00	47.28
45.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	6.504	0.00	28.92
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	6.504	0.00	19.67
50.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	6.650	0.00	18.91
50.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.13	0.00	0.102	1.006	6.650	0.00	234.01
50.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	6.650	0.00	35.37
50.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	6.650	0.00	253.93
50.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	6.650	0.00	17.67
50.00	3" Coax	Yes	5.00	0.000	3.00	2.55	0.00	0.102	1.006	6.650	0.00	47.79
50.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	6.650	0.00	29.33
50.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	6.650	0.00	20.02
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	6.785	0.00	19.22
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.14	0.00	0.104	1.013	6.785	0.00	235.57
55.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	6.785	0.00	35.77
55.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	6.785	0.00	255.60
55.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	6.785	0.00	17.98
55.00	3" Coax	Yes	5.00	0.000	3.00	2.57	0.00	0.104	1.013	6.785	0.00	48.25

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 34	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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)
55.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	6.785	0.00	29.70
55.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	6.785	0.00	20.35
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	6.910	0.00	19.51
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.15	0.00	0.107	1.021	6.910	0.00	237.00
60.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	6.910	0.00	36.14
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	6.910	0.00	257.14
60.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	6.910	0.00	18.26
60.00	3" Coax	Yes	5.00	0.000	3.00	2.58	0.00	0.107	1.021	6.910	0.00	48.68
60.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	6.910	0.00	30.05
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	6.910	0.00	20.65
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	7.028	0.00	19.78
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.16	0.00	0.110	1.029	7.028	0.00	238.34
65.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	7.028	0.00	36.49
65.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	7.028	0.00	258.57
65.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	7.028	0.00	18.53
65.00	3" Coax	Yes	5.00	0.000	3.00	2.59	0.00	0.110	1.029	7.028	0.00	49.08
65.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	7.028	0.00	30.37
65.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	7.028	0.00	20.93
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	7.138	0.00	20.03
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.17	0.00	0.112	1.037	7.138	0.00	239.58
70.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	7.138	0.00	36.82
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	7.138	0.00	259.91
70.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	7.138	0.00	18.79
70.00	3" Coax	Yes	5.00	0.000	3.00	2.60	0.00	0.112	1.037	7.138	0.00	49.45
70.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	7.138	0.00	30.68
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	7.138	0.00	21.20
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	7.243	0.00	20.27
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.18	0.00	0.115	1.046	7.243	0.00	240.75
75.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	7.243	0.00	37.13
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	7.243	0.00	261.17
75.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	7.243	0.00	19.02
75.00	3" Coax	Yes	5.00	0.000	3.00	2.61	0.00	0.115	1.046	7.243	0.00	49.81
75.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	7.243	0.00	30.97
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	7.243	0.00	21.45
78.50	Safety Cable	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	7.313	0.00	14.30
78.50	1 5/8" Coax	Yes	3.50	0.000	1.98	1.53	0.00	0.118	1.053	7.313	0.00	169.07
78.50	1 5/8" Fiber	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	7.313	0.00	26.14
78.50	1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	7.313	0.00	183.40
78.50	10 mm	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	7.313	0.00	13.43
78.50	3" Coax	Yes	3.50	0.000	3.00	1.83	0.00	0.118	1.053	7.313	0.00	35.03
78.50	DC	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	7.313	0.00	21.81
80.00	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	7.342	0.00	6.15
80.00	1 5/8" Coax	Yes	1.50	0.000	1.98	0.66	0.00	0.119	1.058	7.342	0.00	72.56
80.00	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	7.342	0.00	11.23
80.00	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	7.342	0.00	78.71
80.00	10 mm	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	7.342	0.00	5.77
80.00	3" Coax	Yes	1.50	0.000	3.00	0.78	0.00	0.119	1.058	7.342	0.00	15.04

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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)
80.00	DC	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	7.342	0.00	9.37
83.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	7.413	0.00	15.49
83.75	1 5/8" Coax	Yes	3.75	0.000	1.98	1.65	0.00	0.121	1.063	7.413	0.00	181.98
83.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	7.413	0.00	28.22
83.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	7.413	0.00	197.40
83.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	7.413	0.00	14.56
83.75	3" Coax	Yes	3.75	0.000	3.00	1.97	0.00	0.121	1.063	7.413	0.00	37.79
83.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	7.413	0.00	23.57
85.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	7.436	0.00	5.18
85.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.55	0.00	0.121	1.063	7.436	0.00	60.73
85.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	7.436	0.00	9.43
85.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	7.436	0.00	65.87
85.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	7.436	0.00	4.87
85.00	3" Coax	Yes	1.25	0.000	3.00	0.66	0.00	0.121	1.063	7.436	0.00	12.61
85.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	7.436	0.00	7.87
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	7.526	0.00	20.91
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	0.123	1.069	7.526	0.00	243.89
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	7.526	0.00	37.97
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	7.526	0.00	264.54
90.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	7.526	0.00	19.67
90.00	3" Coax	Yes	5.00	0.000	3.00	2.63	0.00	0.123	1.069	7.526	0.00	50.76
90.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	7.526	0.00	31.74
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	7.612	0.00	21.11
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	0.126	1.079	7.612	0.00	244.84
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	7.612	0.00	38.22
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	7.612	0.00	265.55
95.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	7.612	0.00	19.87
95.00	3" Coax	Yes	5.00	0.000	3.00	2.64	0.00	0.126	1.079	7.612	0.00	51.05
95.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	7.612	0.00	31.98
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	7.695	0.00	21.30
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.22	0.00	0.130	1.090	7.695	0.00	245.74
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	7.695	0.00	38.46
100.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	7.695	0.00	266.52
100.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	7.695	0.00	20.05
100.00	3" Coax	Yes	5.00	0.000	3.00	2.65	0.00	0.130	1.090	7.695	0.00	51.32
100.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	7.695	0.00	32.20
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	7.774	0.00	21.48
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	0.134	1.102	7.774	0.00	246.60
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	7.774	0.00	38.69
105.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	7.774	0.00	267.44
105.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	7.774	0.00	20.23
105.00	3" Coax	Yes	5.00	0.000	3.00	2.65	0.00	0.134	1.102	7.774	0.00	51.59
105.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	7.774	0.00	32.42
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	7.851	0.00	21.65
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	0.138	1.115	7.851	0.00	247.43
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	7.851	0.00	38.92
110.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	7.851	0.00	268.33

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (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	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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)
110.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	7.851	0.00	20.41
110.00	3" Coax	Yes	5.00	0.000	3.00	2.66	0.00	0.138	1.115	7.851	0.00	51.84
110.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	7.851	0.00	32.63
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	7.925	0.00	21.82
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.24	0.00	0.143	1.128	7.925	0.00	248.22
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	7.925	0.00	39.13
115.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	7.925	0.00	269.18
115.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	7.925	0.00	20.57
115.00	3" Coax	Yes	5.00	0.000	3.00	2.67	0.00	0.143	1.128	7.925	0.00	52.09
115.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	7.925	0.00	32.83
119.25	Safety Cable	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	7.986	0.00	18.66
119.25	1 5/8" Coax	Yes	4.25	0.000	1.98	1.91	0.00	0.147	1.141	7.986	0.00	211.54
119.25	1 5/8" Fiber	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	7.986	0.00	33.41
119.25	1 5/8" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	7.986	0.00	229.40
119.25	10 mm	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	7.986	0.00	17.61
119.25	3" Coax	Yes	4.25	0.000	3.00	2.27	0.00	0.147	1.141	7.986	0.00	44.45
119.25	DC	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	7.986	0.00	28.04
120.00	Safety Cable	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	7.996	0.00	3.30
120.00	1 5/8" Coax	Yes	0.75	0.000	1.98	0.34	0.00	0.149	1.148	7.996	0.00	37.35
120.00	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	7.996	0.00	5.90
120.00	1 5/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	7.996	0.00	40.50
120.00	10 mm	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	7.996	0.00	3.11
120.00	3" Coax	Yes	0.75	0.000	3.00	0.40	0.00	0.149	1.148	7.996	0.00	7.85
120.00	DC	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	7.996	0.00	4.95
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	8.024	0.00	8.82
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.151	1.152	8.024	0.00	99.71
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	8.024	0.00	15.77
122.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	8.024	0.00	108.13
122.00	10 mm	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	8.024	0.00	8.32
122.00	3" Coax	Yes	2.00	0.000	3.00	1.07	0.00	0.151	1.152	8.024	0.00	20.97
122.00	DC	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	8.024	0.00	13.24
123.50	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	8.045	0.00	6.63
123.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.68	0.00	0.061	0.000	8.045	0.00	74.85
123.50	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	8.045	0.00	11.84
124.50	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	8.058	0.00	4.42
124.50	1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	0.060	0.000	8.058	0.00	49.93
124.50	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	8.058	0.00	7.90
125.00	Safety Cable	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	8.065	0.00	2.21
125.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.061	0.000	8.065	0.00	24.97
125.00	1 5/8" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	8.065	0.00	3.95
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	8.132	0.00	22.29
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.26	0.00	0.062	0.000	8.132	0.00	250.44
130.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	8.132	0.00	39.73
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	8.158	0.00	8.94
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.063	0.000	8.158	0.00	100.29
132.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	8.158	0.00	15.92
135.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	8.197	0.00	13.46

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 37	

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

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

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)
135.00	1 5/8" Coax	Yes	3.00	0.000	1.98	1.36	0.00	0.064	0.000	8.197	0.00	150.67
135.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	8.197	0.00	23.95
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	8.260	0.00	22.57
140.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.27	0.00	0.066	0.000	8.260	0.00	251.79
140.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	8.260	0.00	40.10
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	8.321	0.00	22.71
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.27	0.00	0.069	0.000	8.321	0.00	252.43
145.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	8.321	0.00	40.28
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.381	0.00	22.85
150.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.28	0.00	0.072	0.000	8.381	0.00	253.06
150.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.381	0.00	40.45
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	8.404	0.00	9.16
152.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.074	0.000	8.404	0.00	101.32
152.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	8.404	0.00	16.21
155.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	8.439	0.00	13.79
160.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.495	0.00	23.11
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.518	0.00	9.26
										Totals:	**0.0**	**17,803.1**

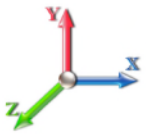
Calculated Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 38	

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

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	-99.17	-11.39	0.00	-1367.4	0.00	1367.46	5422.04	2711.02	12776.1	6397.58	0.00	0.000	0.000	0.232
5.00	-96.46	-11.32	0.00	-1310.4	0.00	1310.49	5354.65	2677.32	12373.4	6195.90	0.03	-0.058	0.000	0.230
10.00	-93.72	-11.24	0.00	-1253.9	0.00	1253.91	5285.82	2642.91	11973.5	5995.67	0.12	-0.116	0.000	0.227
15.00	-90.99	-11.16	0.00	-1197.7	0.00	1197.71	5215.55	2607.78	11576.7	5796.99	0.28	-0.175	0.000	0.224
20.00	-88.27	-11.07	0.00	-1141.9	0.00	1141.90	5143.86	2571.93	11183.2	5599.96	0.49	-0.236	0.000	0.221
25.00	-85.56	-10.97	0.00	-1086.5	0.00	1086.55	5070.72	2535.36	10793.2	5404.66	0.77	-0.296	0.000	0.218
30.00	-82.88	-10.86	0.00	-1031.6	0.00	1031.69	4996.16	2498.08	10406.9	5211.21	1.12	-0.358	0.000	0.215
35.00	-80.23	-10.74	0.00	-977.37	0.00	977.37	4920.16	2460.08	10024.5	5019.70	1.52	-0.420	0.000	0.211
38.75	-78.26	-10.63	0.00	-937.11	0.00	937.11	4862.22	2431.11	9740.32	4877.40	1.87	-0.468	0.000	0.208
40.00	-77.30	-10.63	0.00	-923.82	0.00	923.82	4842.73	2421.36	9646.11	4830.22	2.00	-0.484	0.000	0.207
45.00	-73.51	-10.48	0.00	-870.69	0.00	870.69	3936.38	1968.19	7803.92	3907.76	2.54	-0.548	0.000	0.242
50.00	-71.11	-10.35	0.00	-818.27	0.00	818.27	3877.34	1938.67	7510.22	3760.69	3.15	-0.612	0.000	0.236
55.00	-68.73	-10.22	0.00	-766.51	0.00	766.51	3816.87	1908.43	7219.20	3614.96	3.83	-0.684	0.000	0.230
60.00	-66.38	-10.08	0.00	-715.41	0.00	715.41	3754.96	1877.48	6931.04	3470.67	4.58	-0.756	0.000	0.224
65.00	-64.06	-9.94	0.00	-665.01	0.00	665.01	3691.62	1845.81	6645.93	3327.91	5.41	-0.827	0.000	0.217
70.00	-61.78	-9.79	0.00	-615.33	0.00	615.33	3626.84	1813.42	6364.09	3186.77	6.32	-0.899	0.000	0.210
75.00	-59.49	-9.60	0.00	-566.40	0.00	566.40	3560.63	1780.31	6085.69	3047.37	7.30	-0.971	0.000	0.203
78.50	-57.95	-9.48	0.00	-532.79	0.00	532.79	3513.43	1756.71	5892.98	2950.87	8.03	-1.021	0.000	0.197
80.00	-57.03	-9.44	0.00	-518.57	0.00	518.57	3492.98	1746.49	5810.95	2909.79	8.35	-1.043	0.000	0.195
83.75	-54.78	-9.29	0.00	-483.17	0.00	483.17	2742.50	1371.25	4553.78	2280.28	9.19	-1.096	0.000	0.232
85.00	-54.27	-9.28	0.00	-471.56	0.00	471.56	2730.37	1365.18	4502.54	2254.62	9.48	-1.114	0.000	0.229
90.00	-52.27	-9.11	0.00	-425.19	0.00	425.19	2680.95	1340.47	4298.92	2152.65	10.69	-1.193	0.000	0.217
95.00	-50.30	-8.94	0.00	-379.63	0.00	379.63	2630.10	1315.05	4097.56	2051.82	11.99	-1.270	0.000	0.204
100.00	-48.36	-8.77	0.00	-334.92	0.00	334.92	2577.82	1288.91	3898.66	1952.23	13.36	-1.344	0.000	0.190
105.00	-44.30	-8.15	0.00	-291.08	0.00	291.08	2524.10	1262.05	3702.43	1853.97	14.80	-1.415	0.000	0.175
110.00	-42.42	-7.96	0.00	-250.34	0.00	250.34	2468.95	1234.47	3509.05	1757.13	16.32	-1.483	0.000	0.160
115.00	-40.57	-7.76	0.00	-210.56	0.00	210.56	2412.36	1206.18	3318.73	1661.83	17.91	-1.546	0.000	0.144
119.25	-39.03	-7.58	0.00	-177.58	0.00	177.58	2363.14	1181.57	3159.50	1582.10	19.31	-1.596	0.000	0.129
120.00	-38.67	-7.55	0.00	-171.89	0.00	171.89	2354.34	1177.17	3131.65	1568.15	19.56	-1.604	0.000	0.126
122.00	-33.85	-6.52	0.00	-156.79	0.00	156.79	2330.73	1165.37	3057.78	1531.16	20.24	-1.626	0.000	0.117
123.50	-33.27	-6.46	0.00	-147.01	0.00	147.01	1751.58	875.79	2319.28	1161.36	20.75	-1.642	0.000	0.146
124.50	-31.87	-6.09	0.00	-140.55	0.00	140.55	1743.79	871.89	2293.08	1148.24	21.10	-1.652	0.000	0.141
125.00	-31.74	-6.08	0.00	-137.51	0.00	137.51	1739.87	869.94	2280.00	1141.69	21.27	-1.658	0.000	0.139
130.00	-30.47	-5.91	0.00	-107.09	0.00	107.09	1699.92	849.96	2150.20	1076.70	23.03	-1.712	0.000	0.117
132.00	-21.81	-4.24	0.00	-95.28	0.00	95.28	1683.54	841.77	2098.80	1050.96	23.76	-1.731	0.000	0.104
135.00	-21.12	-4.14	0.00	-82.55	0.00	82.55	1658.53	829.27	2022.29	1012.65	24.85	-1.758	0.000	0.094
140.00	-19.98	-3.97	0.00	-61.85	0.00	61.85	1615.71	807.86	1896.47	949.64	26.72	-1.798	0.000	0.078
145.00	-18.88	-3.79	0.00	-42.02	0.00	42.02	1571.46	785.73	1772.93	887.78	28.62	-1.829	0.000	0.059
150.00	-17.80	-3.62	0.00	-23.06	0.00	23.06	1525.77	762.88	1651.87	827.16	30.55	-1.851	0.000	0.040
152.00	-6.61	-1.68	0.00	-15.82	0.00	15.82	1507.09	753.54	1604.19	803.29	31.32	-1.857	0.000	0.024
155.00	-6.16	-1.58	0.00	-10.78	0.00	10.78	1478.64	739.32	1533.49	767.89	32.49	-1.864	0.000	0.018
160.00	-5.44	-1.42	0.00	-2.86	0.00	2.86	1426.03	713.01	1413.96	708.03	34.45	-1.870	0.000	0.008
162.00	0.00	-1.25	0.00	-0.01	0.00	0.01	1400.09	700.04	1362.73	682.38	35.23	-1.870	0.000	0.000

Seismic Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 39	

Tower Engineering Solutions

Load Case:	1.2D + 1.0E							**Iterations**	22
Gust Response Factor	1.10			**Sds**	0.19			**Ss**	0.18
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.33	**SA**	0.03			**Seismic Importance Factor**	1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1341.4	0.00	0.03	0.02	24.67	
10.00		1315.5	0.01	0.05	0.03	35.34	
15.00		1289.5	0.02	0.06	0.04	40.21	
20.00		1263.5	0.03	0.07	0.04	42.29	
25.00		1237.5	0.05	0.07	0.04	43.05	
30.00		1211.5	0.06	0.07	0.04	43.25	
35.00		1185.5	0.09	0.07	0.04	43.29	
38.75	Bot - Section 2	872.10	0.11	0.07	0.04	32.38	
40.00		537.95	0.12	0.07	0.04	20.08	
45.00	Top - Section 1	2121.6	0.15	0.07	0.03	80.80	
50.00		965.80	0.18	0.07	0.03	37.23	
55.00		943.52	0.22	0.06	0.02	36.19	
60.00		921.24	0.26	0.05	0.02	34.06	
65.00		898.96	0.30	0.04	0.01	30.35	
70.00		876.68	0.35	0.03	0.01	24.57	
75.00	Appurtenance(s)	864.41	0.41	0.02	0.01	16.70	
78.50	Bot - Section 3	584.83	0.44	0.00	0.01	6.72	
80.00	Appurtenance(s)	457.36	0.46	0.00	0.01	3.55	
83.75	Top - Section 2	1126.0	0.51	-0.02	0.01	-2.42	
85.00		169.88	0.52	-0.02	0.01	-0.94	
90.00		667.91	0.58	-0.05	0.01	-12.47	
95.00		649.35	0.65	-0.07	0.02	-19.18	
100.00		630.78	0.72	-0.09	0.03	-23.15	
105.00	Appurtenance(s)	1812.2	0.79	-0.11	0.05	-71.53	
110.00		593.65	0.87	-0.12	0.08	-22.37	
115.00		575.09	0.95	-0.12	0.11	-18.06	
119.25	Bot - Section 4	474.23	1.02	-0.10	0.14	-10.72	
120.00		149.27	1.04	-0.10	0.15	-3.10	
122.00	Appurtenance(s)	2020.9	1.07	-0.08	0.17	-30.86	
123.50	Top - Section 3	292.27	1.10	-0.07	0.19	-3.13	
124.50	Appurtenance(s)	623.50	1.12	-0.06	0.20	-4.65	
125.00		43.13	1.13	-0.05	0.20	-0.25	
130.00		423.11	1.22	0.02	0.27	5.70	
132.00	Appurtenance(s)	3063.7	1.25	0.06	0.30	68.60	
135.00		243.17	1.31	0.14	0.35	9.01	
140.00		393.40	1.41	0.31	0.44	25.57	
145.00		378.55	1.51	0.54	0.56	36.88	
150.00		363.70	1.62	0.84	0.70	48.87	
152.00	Appurtenance(s)	3762.2	1.66	0.99	0.76	566.08	
155.00		207.52	1.73	1.24	0.86	36.52	
160.00		333.99	1.84	1.74	1.05	74.27	
162.00	Appurtenance(s)	2368.2	1.89	1.98	1.14	573.76	
	Totals:	**40,255.0**				**1,817.2**	**Total Wind:** **39,991.8**

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

Calculated Forces

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 40

Tower Engineering Solutions

Load Case:	1.2D + 1.0E							**Iterations**	22
Gust Response Factor	1.10			**Sds**	0.19			**Ss**	0.18
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.33	**SA**	0.03	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-55.53	-2.04	0.00	-259.22	0.00	259.22	5422.04	2711.02	12776.1	6397.58		0.00	0.00	0.051
5.00	-53.65	-2.03	0.00	-249.00	0.00	249.00	5354.65	2677.32	12373.4	6195.90		0.01	-0.01	0.050
10.00	-51.81	-2.00	0.00	-238.85	0.00	238.85	5285.82	2642.91	11973.5	5995.67		0.02	-0.02	0.050
15.00	-50.00	-1.97	0.00	-228.83	0.00	228.83	5215.55	2607.78	11576.7	5796.99		0.05	-0.03	0.049
20.00	-48.21	-1.94	0.00	-218.96	0.00	218.96	5143.86	2571.93	11183.2	5599.96		0.09	-0.04	0.048
25.00	-46.46	-1.90	0.00	-209.27	0.00	209.27	5070.72	2535.36	10793.2	5404.66		0.15	-0.06	0.048
30.00	-44.74	-1.87	0.00	-199.75	0.00	199.75	4996.16	2498.08	10406.9	5211.21		0.21	-0.07	0.047
35.00	-43.06	-1.83	0.00	-190.40	0.00	190.40	4920.16	2460.08	10024.5	5019.70		0.29	-0.08	0.047
38.75	-41.81	-1.80	0.00	-183.54	0.00	183.54	4862.22	2431.11	9740.32	4877.40		0.36	-0.09	0.046
40.00	-41.10	-1.79	0.00	-181.29	0.00	181.29	4842.73	2421.36	9646.11	4830.22		0.38	-0.09	0.046
45.00	-38.29	-1.71	0.00	-172.36	0.00	172.36	3936.38	1968.19	7803.92	3907.76		0.49	-0.11	0.054
50.00	-36.86	-1.68	0.00	-163.81	0.00	163.81	3877.34	1938.67	7510.22	3760.69		0.60	-0.12	0.053
55.00	-35.46	-1.65	0.00	-155.43	0.00	155.43	3816.87	1908.43	7219.20	3614.96		0.74	-0.13	0.052
60.00	-34.09	-1.62	0.00	-147.19	0.00	147.19	3754.96	1877.48	6931.04	3470.67		0.88	-0.15	0.051
65.00	-32.75	-1.59	0.00	-139.10	0.00	139.10	3691.62	1845.81	6645.93	3327.91		1.04	-0.16	0.051
70.00	-31.43	-1.57	0.00	-131.13	0.00	131.13	3626.84	1813.42	6364.09	3186.77		1.22	-0.18	0.050
75.00	-30.13	-1.56	0.00	-123.27	0.00	123.27	3560.63	1780.31	6085.69	3047.37		1.42	-0.19	0.049
78.50	-29.24	-1.55	0.00	-117.81	0.00	117.81	3513.43	1756.71	5892.98	2950.87		1.56	-0.20	0.048
80.00	-28.61	-1.55	0.00	-115.48	0.00	115.48	3492.98	1746.49	5810.95	2909.79		1.63	-0.21	0.048
83.75	-27.06	-1.55	0.00	-109.66	0.00	109.66	2742.50	1371.25	4553.78	2280.28		1.80	-0.22	0.058
85.00	-26.79	-1.55	0.00	-107.73	0.00	107.73	2730.37	1365.18	4502.54	2254.62		1.85	-0.22	0.058
90.00	-25.73	-1.56	0.00	-99.96	0.00	99.96	2680.95	1340.47	4298.92	2152.65		2.10	-0.24	0.056
95.00	-24.69	-1.56	0.00	-92.17	0.00	92.17	2630.10	1315.05	4097.56	2051.82		2.36	-0.26	0.054
100.00	-23.66	-1.56	0.00	-84.36	0.00	84.36	2577.82	1288.91	3898.66	1952.23		2.65	-0.28	0.052
105.00	-21.23	-1.56	0.00	-76.54	0.00	76.54	2524.10	1262.05	3702.43	1853.97		2.95	-0.30	0.050
110.00	-20.25	-1.56	0.00	-68.75	0.00	68.75	2468.95	1234.47	3509.05	1757.13		3.27	-0.32	0.047
115.00	-19.30	-1.56	0.00	-60.95	0.00	60.95	2412.36	1206.18	3318.73	1661.83		3.61	-0.33	0.045
119.25	-18.50	-1.56	0.00	-54.32	0.00	54.32	2363.14	1181.57	3159.50	1582.10		3.92	-0.35	0.042
120.00	-18.28	-1.56	0.00	-53.15	0.00	53.15	2354.34	1177.17	3131.65	1568.15		3.97	-0.35	0.042
122.00	-15.75	-1.54	0.00	-50.04	0.00	50.04	2330.73	1165.37	3057.78	1531.16		4.12	-0.36	0.039
123.50	-15.35	-1.54	0.00	-47.72	0.00	47.72	1751.58	875.79	2319.28	1161.36		4.24	-0.36	0.050
124.50	-14.57	-1.54	0.00	-46.18	0.00	46.18	1743.79	871.89	2293.08	1148.24		4.31	-0.37	0.049
125.00	-14.50	-1.54	0.00	-45.41	0.00	45.41	1739.87	869.94	2280.00	1141.69		4.35	-0.37	0.048
130.00	-13.82	-1.53	0.00	-37.71	0.00	37.71	1699.92	849.96	2150.20	1076.70		4.75	-0.39	0.043
132.00	-10.07	-1.44	0.00	-34.64	0.00	34.64	1683.54	841.77	2098.80	1050.96		4.91	-0.39	0.039
135.00	-9.72	-1.43	0.00	-30.32	0.00	30.32	1658.53	829.27	2022.29	1012.65		5.16	-0.40	0.036
140.00	-9.16	-1.40	0.00	-23.16	0.00	23.16	1615.71	807.86	1896.47	949.64		5.59	-0.42	0.030
145.00	-8.61	-1.36	0.00	-16.14	0.00	16.14	1571.46	785.73	1772.93	887.78		6.04	-0.43	0.024
150.00	-8.07	-1.31	0.00	-9.32	0.00	9.32	1525.77	762.88	1651.87	827.16		6.49	-0.44	0.017
152.00	-3.53	-0.71	0.00	-6.69	0.00	6.69	1507.09	753.54	1604.19	803.29		6.68	-0.44	0.011
155.00	-3.27	-0.67	0.00	-4.56	0.00	4.56	1478.64	739.32	1533.49	767.89		6.96	-0.44	0.008
160.00	-2.85	-0.60	0.00	-1.19	0.00	1.19	1426.03	713.01	1413.96	708.03		7.42	-0.45	0.004
162.00	0.00	-0.57	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38		7.61	-0.45	0.000

Seismic Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 41	

Tower Engineering Solutions

Load Case:	0.9D + 1.0E					**Iterations**	22
Gust Response Factor	1.10			**Sds**	0.19	**Ss**	0.18
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10	**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.33	**SA**	0.03	**Seismic Importance Factor**	1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1341.4	0.00	0.03	0.02	24.67	
10.00		1315.5	0.01	0.05	0.03	35.34	
15.00		1289.5	0.02	0.06	0.04	40.21	
20.00		1263.5	0.03	0.07	0.04	42.29	
25.00		1237.5	0.05	0.07	0.04	43.05	
30.00		1211.5	0.06	0.07	0.04	43.25	
35.00		1185.5	0.09	0.07	0.04	43.29	
38.75	Bot - Section 2	872.10	0.11	0.07	0.04	32.38	
40.00		537.95	0.12	0.07	0.04	20.08	
45.00	Top - Section 1	2121.6	0.15	0.07	0.03	80.80	
50.00		965.80	0.18	0.07	0.03	37.23	
55.00		943.52	0.22	0.06	0.02	36.19	
60.00		921.24	0.26	0.05	0.02	34.06	
65.00		898.96	0.30	0.04	0.01	30.35	
70.00		876.68	0.35	0.03	0.01	24.57	
75.00	Appurtenance(s)	864.41	0.41	0.02	0.01	16.70	
78.50	Bot - Section 3	584.83	0.44	0.00	0.01	6.72	
80.00	Appurtenance(s)	457.36	0.46	0.00	0.01	3.55	
83.75	Top - Section 2	1126.0	0.51	-0.02	0.01	-2.42	
85.00		169.88	0.52	-0.02	0.01	-0.94	
90.00		667.91	0.58	-0.05	0.01	-12.47	
95.00		649.35	0.65	-0.07	0.02	-19.18	
100.00		630.78	0.72	-0.09	0.03	-23.15	
105.00	Appurtenance(s)	1812.2	0.79	-0.11	0.05	-71.53	
110.00		593.65	0.87	-0.12	0.08	-22.37	
115.00		575.09	0.95	-0.12	0.11	-18.06	
119.25	Bot - Section 4	474.23	1.02	-0.10	0.14	-10.72	
120.00		149.27	1.04	-0.10	0.15	-3.10	
122.00	Appurtenance(s)	2020.9	1.07	-0.08	0.17	-30.86	
123.50	Top - Section 3	292.27	1.10	-0.07	0.19	-3.13	
124.50	Appurtenance(s)	623.50	1.12	-0.06	0.20	-4.65	
125.00		43.13	1.13	-0.05	0.20	-0.25	
130.00		423.11	1.22	0.02	0.27	5.70	
132.00	Appurtenance(s)	3063.7	1.25	0.06	0.30	68.60	
135.00		243.17	1.31	0.14	0.35	9.01	
140.00		393.40	1.41	0.31	0.44	25.57	
145.00		378.55	1.51	0.54	0.56	36.88	
150.00		363.70	1.62	0.84	0.70	48.87	
152.00	Appurtenance(s)	3762.2	1.66	0.99	0.76	566.08	
155.00		207.52	1.73	1.24	0.86	36.52	
160.00		333.99	1.84	1.74	1.05	74.27	
162.00	Appurtenance(s)	2368.2	1.89	1.98	1.14	573.76	
	Totals:	**40,255.0**				**1,817.2**	**Total Wind:** **39,991.8**

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

Calculated Forces

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 42

Load Case:	0.9D + 1.0E							**Iterations**	22
Gust Response Factor	1.10			**Sds**	0.19			**Ss**	0.18
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.10			**S1**	0.06
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.33	**SA**	0.03	**Seismic Importance Factor**			1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-41.65	-2.04	0.00	-256.00	0.00	256.00	5422.04	2711.02	12776.1	6397.58		0.00	0.00	0.048
5.00	-40.24	-2.03	0.00	-245.78	0.00	245.78	5354.65	2677.32	12373.4	6195.90		0.01	-0.01	0.047
10.00	-38.86	-2.00	0.00	-235.65	0.00	235.65	5285.82	2642.91	11973.5	5995.67		0.02	-0.02	0.047
15.00	-37.50	-1.96	0.00	-225.66	0.00	225.66	5215.55	2607.78	11576.7	5796.99		0.05	-0.03	0.046
20.00	-36.16	-1.93	0.00	-215.84	0.00	215.84	5143.86	2571.93	11183.2	5599.96		0.09	-0.04	0.046
25.00	-34.85	-1.89	0.00	-206.20	0.00	206.20	5070.72	2535.36	10793.2	5404.66		0.14	-0.06	0.045
30.00	-33.56	-1.85	0.00	-196.75	0.00	196.75	4996.16	2498.08	10406.9	5211.21		0.21	-0.07	0.044
35.00	-32.29	-1.81	0.00	-187.48	0.00	187.48	4920.16	2460.08	10024.5	5019.70		0.29	-0.08	0.044
38.75	-31.36	-1.78	0.00	-180.68	0.00	180.68	4862.22	2431.11	9740.32	4877.40		0.35	-0.09	0.043
40.00	-30.82	-1.77	0.00	-178.45	0.00	178.45	4842.73	2421.36	9646.11	4830.22		0.38	-0.09	0.043
45.00	-28.71	-1.69	0.00	-169.61	0.00	169.61	3936.38	1968.19	7803.92	3907.76		0.48	-0.10	0.051
50.00	-27.65	-1.66	0.00	-161.16	0.00	161.16	3877.34	1938.67	7510.22	3760.69		0.60	-0.12	0.050
55.00	-26.60	-1.62	0.00	-152.88	0.00	152.88	3816.87	1908.43	7219.20	3614.96		0.72	-0.13	0.049
60.00	-25.57	-1.59	0.00	-144.76	0.00	144.76	3754.96	1877.48	6931.04	3470.67		0.87	-0.15	0.049
65.00	-24.56	-1.57	0.00	-136.79	0.00	136.79	3691.62	1845.81	6645.93	3327.91		1.03	-0.16	0.048
70.00	-23.57	-1.55	0.00	-128.95	0.00	128.95	3626.84	1813.42	6364.09	3186.77		1.21	-0.17	0.047
75.00	-22.59	-1.53	0.00	-121.22	0.00	121.22	3560.63	1780.31	6085.69	3047.37		1.40	-0.19	0.046
78.50	-21.93	-1.53	0.00	-115.85	0.00	115.85	3513.43	1756.71	5892.98	2950.87		1.54	-0.20	0.046
80.00	-21.46	-1.52	0.00	-113.56	0.00	113.56	3492.98	1746.49	5810.95	2909.79		1.60	-0.21	0.045
83.75	-20.30	-1.52	0.00	-107.85	0.00	107.85	2742.50	1371.25	4553.78	2280.28		1.77	-0.22	0.055
85.00	-20.09	-1.53	0.00	-105.95	0.00	105.95	2730.37	1365.18	4502.54	2254.62		1.83	-0.22	0.054
90.00	-19.29	-1.53	0.00	-98.32	0.00	98.32	2680.95	1340.47	4298.92	2152.65		2.07	-0.24	0.053
95.00	-18.51	-1.53	0.00	-90.68	0.00	90.68	2630.10	1315.05	4097.56	2051.82		2.33	-0.26	0.051
100.00	-17.75	-1.53	0.00	-83.03	0.00	83.03	2577.82	1288.91	3898.66	1952.23		2.61	-0.28	0.049
105.00	-15.92	-1.53	0.00	-75.36	0.00	75.36	2524.10	1262.05	3702.43	1853.97		2.91	-0.29	0.047
110.00	-15.19	-1.53	0.00	-67.72	0.00	67.72	2468.95	1234.47	3509.05	1757.13		3.22	-0.31	0.045
115.00	-14.47	-1.53	0.00	-60.07	0.00	60.07	2412.36	1206.18	3318.73	1661.83		3.56	-0.33	0.042
119.25	-13.87	-1.53	0.00	-53.57	0.00	53.57	2363.14	1181.57	3159.50	1582.10		3.86	-0.34	0.040
120.00	-13.71	-1.53	0.00	-52.42	0.00	52.42	2354.34	1177.17	3131.65	1568.15		3.91	-0.35	0.039
122.00	-11.81	-1.52	0.00	-49.37	0.00	49.37	2330.73	1165.37	3057.78	1531.16		4.06	-0.35	0.037
123.50	-11.51	-1.52	0.00	-47.09	0.00	47.09	1751.58	875.79	2319.28	1161.36		4.17	-0.36	0.047
124.50	-10.92	-1.51	0.00	-45.57	0.00	45.57	1743.79	871.89	2293.08	1148.24		4.25	-0.36	0.046
125.00	-10.87	-1.52	0.00	-44.82	0.00	44.82	1739.87	869.94	2280.00	1141.69		4.28	-0.36	0.046
130.00	-10.36	-1.51	0.00	-37.24	0.00	37.24	1699.92	849.96	2150.20	1076.70		4.67	-0.38	0.041
132.00	-7.55	-1.42	0.00	-34.22	0.00	34.22	1683.54	841.77	2098.80	1050.96		4.84	-0.39	0.037
135.00	-7.29	-1.41	0.00	-29.96	0.00	29.96	1658.53	829.27	2022.29	1012.65		5.08	-0.40	0.034
140.00	-6.86	-1.39	0.00	-22.89	0.00	22.89	1615.71	807.86	1896.47	949.64		5.51	-0.41	0.028
145.00	-6.45	-1.35	0.00	-15.96	0.00	15.96	1571.46	785.73	1772.93	887.78		5.95	-0.42	0.022
150.00	-6.05	-1.30	0.00	-9.22	0.00	9.22	1525.77	762.88	1651.87	827.16		6.39	-0.43	0.015
152.00	-2.64	-0.70	0.00	-6.63	0.00	6.63	1507.09	753.54	1604.19	803.29		6.58	-0.43	0.010
155.00	-2.45	-0.67	0.00	-4.51	0.00	4.51	1478.64	739.32	1533.49	767.89		6.85	-0.44	0.008
160.00	-2.13	-0.59	0.00	-1.18	0.00	1.18	1426.03	713.01	1413.96	708.03		7.31	-0.44	0.003
162.00	0.00	-0.57	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38		7.49	-0.44	0.000

Wind Loading - Shaft

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 43	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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	0.85	7.442	8.19	270.41	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	265.27	0.650	0.000	5.00	24.209	15.74	128.8	0.0	1341.5
10.00		1.00	0.85	7.442	8.19	260.12	0.650	0.000	5.00	23.744	15.43	126.3	0.0	1315.5
15.00		1.00	0.85	7.442	8.19	254.97	0.650	0.000	5.00	23.278	15.13	123.9	0.0	1289.5
20.00		1.00	0.90	7.896	8.69	257.33	0.650	0.000	5.00	22.813	14.83	128.8	0.0	1263.5
25.00		1.00	0.95	8.276	9.10	258.01	0.650	0.000	5.00	22.348	14.53	132.2	0.0	1237.5
30.00		1.00	0.98	8.600	9.46	257.48	0.650	0.000	5.00	21.882	14.22	134.6	0.0	1211.5
35.00		1.00	1.01	8.883	9.77	256.06	0.650	0.000	5.00	21.417	13.92	136.0	0.0	1185.5
38.75	Bot - Section 2	1.00	1.04	9.076	9.98	254.56	0.650	0.000	3.75	15.757	10.24	102.3	0.0	872.1
40.00		1.00	1.04	9.137	10.05	253.98	0.650	0.000	1.25	5.273	3.43	34.5	0.0	538.0
45.00	Top - Section 1	1.00	1.07	9.366	10.30	251.37	0.653 *	0.000	5.00	20.803	13.57	139.9	0.0	2121.6
50.00		1.00	1.09	9.576	10.53	252.32	0.654 *	0.000	5.00	20.338	13.30	140.1	0.0	965.8
55.00		1.00	1.12	9.770	10.75	248.96	0.659 *	0.000	5.00	19.872	13.09	140.7	0.0	943.5
60.00		1.00	1.14	9.951	10.95	245.30	0.663 *	0.000	5.00	19.407	12.88	140.9	0.0	921.2
65.00		1.00	1.16	10.120	11.13	241.37	0.669 *	0.000	5.00	18.941	12.66	141.0	0.0	899.0
70.00		1.00	1.17	10.279	11.31	237.20	0.674 *	0.000	5.00	18.476	12.45	140.8	0.0	876.7
75.00	Appurtenance(s)	1.00	1.19	10.430	11.47	232.84	0.680 *	0.000	5.00	18.010	12.24	140.4	0.0	854.4
78.50	Bot - Section 3	1.00	1.20	10.530	11.58	229.67	0.685 *	0.000	3.50	12.330	8.44	97.8	0.0	584.8
80.00	Appurtenance(s)	1.00	1.21	10.572	11.63	228.29	0.688 *	0.000	1.50	5.294	3.64	42.3	0.0	456.9
83.75	Top - Section 2	1.00	1.22	10.675	11.74	224.76	0.691 *	0.000	3.75	13.051	9.02	105.9	0.0	1126.1
85.00		1.00	1.22	10.708	11.78	227.08	0.691 *	0.000	1.25	4.292	2.96	34.9	0.0	169.9
90.00		1.00	1.24	10.838	11.92	222.23	0.695 *	0.000	5.00	16.878	11.73	139.8	0.0	667.9
95.00		1.00	1.25	10.962	12.06	217.25	0.702 *	0.000	5.00	16.413	11.51	138.8	0.0	649.3
100.00		1.00	1.27	11.081	12.19	212.15	0.709 *	0.000	5.00	15.947	11.30	137.8	0.0	630.8
105.00	Appurtenance(s)	1.00	1.28	11.195	12.31	206.92	0.716 *	0.000	5.00	15.482	11.09	136.6	0.0	612.2
110.00		1.00	1.29	11.305	12.44	201.59	0.724 *	0.000	5.00	15.016	10.88	135.3	0.0	593.7
115.00		1.00	1.30	11.412	12.55	196.16	0.733 *	0.000	5.00	14.551	10.67	133.9	0.0	575.1
119.25	Bot - Section 4	1.00	1.31	11.499	12.65	191.47	0.742 *	0.000	4.25	12.002	8.90	112.6	0.0	474.2
120.00		1.00	1.32	11.514	12.67	190.63	0.746 *	0.000	0.75	2.115	1.58	20.0	0.0	149.3
122.00	Appurtenance(s)	1.00	1.32	11.554	12.71	188.40	0.749 *	0.000	2.00	5.588	4.19	53.2	0.0	394.4
123.50	Top - Section 3	1.00	1.32	11.584	12.74	186.71	0.650	0.000	1.50	4.142	2.69	34.3	0.0	292.3
124.50	Appurtenance(s)	1.00	1.33	11.604	12.76	188.51	0.650	0.000	1.00	2.738	1.78	22.7	0.0	86.7
125.00		1.00	1.33	11.614	12.78	187.95	0.650	0.000	0.50	1.362	0.89	11.3	0.0	43.1
130.00		1.00	1.34	11.710	12.88	182.26	0.650	0.000	5.00	13.366	8.69	111.9	0.0	423.1
132.00	Appurtenance(s)	1.00	1.34	11.748	12.92	179.97	0.650	0.000	2.00	5.216	3.39	43.8	0.0	165.1
135.00		1.00	1.35	11.803	12.98	176.50	0.650	0.000	3.00	7.684	4.99	64.9	0.0	243.2
140.00		1.00	1.36	11.894	13.08	170.67	0.650	0.000	5.00	12.435	8.08	105.8	0.0	393.4
145.00		1.00	1.37	11.982	13.18	164.77	0.650	0.000	5.00	11.970	7.78	102.5	0.0	378.5
150.00		1.00	1.38	12.068	13.27	158.80	0.650	0.000	5.00	11.504	7.48	99.3	0.0	363.7
152.00	Appurtenance(s)	1.00	1.38	12.102	13.31	156.39	0.650	0.000	2.00	4.471	2.91	38.7	0.0	141.3
155.00		1.00	1.39	12.152	13.37	152.77	0.650	0.000	3.00	6.567	4.27	57.1	0.0	207.5
160.00		1.00	1.40	12.233	13.46	146.68	0.650	0.000	5.00	10.573	6.87	92.5	0.0	334.0
162.00	Appurtenance(s)	1.00	1.40	12.265	13.49	144.22	0.650	0.000	2.00	4.099	2.66	35.9	0.0	129.4
								Totals:	**162.00**			**4,140.7**		**28,122.8**

* CfA djusted byL inear Load Ra Effect

Discrete Appurtenance Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 44	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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	162.00	Low Profile Platform-flat	1	12.265	13.492	1.00	1.00	25.00	1200.00	0.000	0.000	337.30	0.00	0.00
2	162.00	ACU-A20-N	4	12.273	13.501	0.75	1.00	0.42	4.00	0.000	0.500	5.67	0.00	2.84
3	162.00	800 MHz Ext. Filter	3	12.265	13.492	0.63	1.00	2.25	19.80	0.000	0.000	30.34	0.00	0.00
4	162.00	800 MHz RRU	3	12.265	13.492	0.75	1.00	5.60	159.00	0.000	0.000	75.59	0.00	0.00
5	162.00	1900MHz RRH	3	12.265	13.492	0.88	1.00	10.03	132.00	0.000	0.000	135.35	0.00	0.00
6	162.00	APXVSPP18-C-A20	3	12.273	13.501	0.66	0.80	15.98	171.00	0.000	0.500	215.68	0.00	107.84
7	162.00	TD-RRH8x20-25	3	12.265	13.492	0.69	1.00	8.38	210.00	0.000	0.000	113.11	0.00	0.00
8	162.00	APXVTM14-C-120	3	12.273	13.501	0.63	0.80	12.02	168.00	0.000	0.500	162.29	0.00	81.14
9	162.00	Flush Mount	1	12.233	13.457	1.00	1.00	5.00	175.00	0.000	-2.000	67.28	0.00	-134.57
10	152.00	782 11056	3	12.102	13.312	0.50	0.75	0.23	5.40	0.000	0.000	3.01	0.00	0.00
11	152.00	KRY 112 144/1	3	12.102	13.312	0.55	0.75	0.57	33.00	0.000	0.000	7.65	0.00	0.00
12	152.00	FE15501P77/75	3	12.102	13.312	0.49	0.75	0.79	52.50	0.000	0.000	10.51	0.00	0.00
13	152.00	APXV18-206516S-A20	3	12.102	13.312	0.57	0.75	7.46	55.50	0.000	0.000	99.25	0.00	0.00
14	152.00	RR90-17-02DP	6	12.102	13.312	0.55	0.75	14.32	81.00	0.000	0.000	190.66	0.00	0.00
15	152.00	APXVAARR24_43-U-NA2	3	12.102	13.312	0.52	0.75	31.88	384.00	0.000	0.000	424.36	0.00	0.00
16	152.00	Radio 4449 B71+B12	3	12.102	13.312	0.65	0.75	3.81	213.00	0.000	0.000	50.74	0.00	0.00
17	152.00	Platform w/ Hand Rail	1	12.102	13.312	1.00	1.00	49.30	2796.50	0.000	0.000	656.28	0.00	0.00
18	132.00	FD9R6004/2C-3L	6	11.748	12.922	0.56	0.75	1.22	18.60	0.000	0.000	15.70	0.00	0.00
19	132.00	DB846F65ZAXY	4	11.748	12.922	0.70	0.75	19.67	84.00	0.000	0.000	254.18	0.00	0.00
20	132.00	LPA-80080-4CF-EDIN-0	2	11.748	12.922	1.27	0.75	6.66	24.00	0.000	0.000	86.01	0.00	0.00
21	132.00	HRK12 (Handrail Kit)	1	11.748	12.922	1.00	1.00	6.75	261.72	0.000	0.000	87.23	0.00	0.00
22	132.00	Raycap	1	11.748	12.922	0.50	0.75	2.04	32.00	0.000	0.000	26.36	0.00	0.00
23	132.00	Samsung RFV01U-D2A	3	11.748	12.922	0.50	0.75	2.83	210.90	0.000	0.000	36.62	0.00	0.00
24	132.00	Samsung RFV01U-D1A	3	11.748	12.922	0.50	0.75	2.83	253.20	0.000	0.000	36.62	0.00	0.00
25	132.00	Samsung MT6407-77A	3	11.748	12.922	0.52	0.75	7.39	238.20	0.000	0.000	95.46	0.00	0.00
26	132.00	JMA Wireless	6	11.748	12.922	0.65	0.75	38.64	276.00	0.000	0.000	499.34	0.00	0.00
27	132.00	Low Profile	1	11.748	12.922	1.00	1.00	22.00	1500.00	0.000	0.000	284.29	0.00	0.00
28	124.50	Flush Mount	1	11.604	12.764	1.00	1.00	5.00	175.00	0.000	0.000	63.82	0.00	0.00
29	124.50	RRUS-11	6	11.604	12.764	0.68	1.00	18.03	330.00	0.000	0.000	230.19	0.00	0.00
30	124.50	DC6-48-60-18-8F	1	11.604	12.764	1.00	1.00	1.47	31.80	0.000	0.000	18.76	0.00	0.00
31	122.00	Low Profile Platform-flat	1	11.554	12.710	1.00	1.00	25.00	1200.00	0.000	0.000	317.75	0.00	0.00
32	122.00	AM-X-CD-16-65-00T-RET	3	11.554	12.710	0.65	0.80	11.76	99.00	0.000	0.000	149.48	0.00	0.00
33	122.00	LGP21903	6	11.554	12.710	0.60	0.80	0.97	33.00	0.000	0.000	12.35	0.00	0.00
34	122.00	LGP21401	6	11.554	12.710	0.60	0.80	4.64	84.60	0.000	0.000	59.02	0.00	0.00
35	122.00	7770.00	6	11.554	12.710	0.58	0.80	19.27	210.00	0.000	0.000	244.95	0.00	0.00
36	105.00	Low Profile Platform-flat	1	11.195	12.315	1.00	1.00	25.00	1200.00	0.000	0.000	307.87	0.00	0.00
37	80.00	738-449	1	10.582	11.640	1.00	1.00	0.01	0.50	0.000	0.350	0.12	0.00	0.04
38	75.00	GPS	1	10.430	11.473	1.00	1.00	1.00	10.00	0.000	0.000	11.47	0.00	0.00
							Totals:		**12,132.22**			**5,422.68**		

Total Applied Force Summary

Structure:	CT01698-S-SBA		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 45

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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		128.82	1562.55	0.00	0.00
10.00		126.34	1536.56	0.00	0.00
15.00		123.86	1510.57	0.00	0.00
20.00		128.80	1484.58	0.00	0.00
25.00		132.24	1458.59	0.00	0.00
30.00		134.55	1432.60	0.00	0.00
35.00		136.03	1406.61	0.00	0.00
38.75		102.25	1037.90	0.00	0.00
40.00		34.45	593.22	0.00	0.00
45.00		139.85	2342.70	0.00	0.00
50.00		140.10	1186.86	0.00	0.00
55.00		140.66	1164.58	0.00	0.00
60.00		140.94	1142.31	0.00	0.00
65.00		140.98	1120.03	0.00	0.00
70.00		140.80	1097.75	0.00	0.00
75.00	(1) attachments	151.91	1085.47	0.00	0.00
78.50		97.79	739.01	0.00	0.00
80.00	(1) attachments	42.46	523.44	0.00	0.04
83.75		105.91	1290.67	0.00	0.00
85.00		34.92	224.74	0.00	0.00
90.00		139.79	887.38	0.00	0.00
95.00		138.84	868.81	0.00	0.00
100.00		137.76	850.25	0.00	0.00
105.00	(1) attachments	444.44	2031.68	0.00	0.00
110.00		135.29	813.12	0.00	0.00
115.00		133.90	794.55	0.00	0.00
119.25		112.58	660.77	0.00	0.00
120.00		19.99	182.19	0.00	0.00
122.00	(22) attachments	836.76	2108.76	0.00	0.00
123.50		34.31	335.43	0.00	0.00
124.50	(8) attachments	335.49	652.27	0.00	0.00
125.00		11.31	57.51	0.00	0.00
130.00		111.91	566.97	0.00	0.00
132.00	(30) attachments	1465.62	3121.25	0.00	0.00
135.00		64.85	290.85	0.00	0.00
140.00		105.75	472.87	0.00	0.00
145.00		102.55	458.01	0.00	0.00
150.00		99.27	443.16	0.00	0.00
152.00	(25) attachments	1481.17	3794.01	0.00	0.00
155.00		57.06	217.58	0.00	0.00
160.00		92.48	350.76	0.00	0.00
162.00	(24) attachments	1178.55	2374.94	0.00	57.25
	Totals:	**9,563.35**	**46,273.86**	**0.00**	**57.29**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 46	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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	0.00	0.00	0.00	0.086	0.000	7.442	0.00	1.37
5.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.086	0.000	7.442	0.00	57.20
5.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	7.442	0.00	5.50
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	7.442	0.00	62.40
5.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	7.442	0.00	0.30
5.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.086	0.000	7.442	0.00	8.90
5.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	7.442	0.00	4.00
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.086	0.000	7.442	0.00	0.80
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.442	0.00	1.37
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.087	0.000	7.442	0.00	57.20
10.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.442	0.00	5.50
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.442	0.00	62.40
10.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.442	0.00	0.30
10.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.087	0.000	7.442	0.00	8.90
10.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.442	0.00	4.00
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.442	0.00	0.80
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	7.442	0.00	1.37
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.089	0.000	7.442	0.00	57.20
15.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	7.442	0.00	5.50
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	7.442	0.00	62.40
15.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	7.442	0.00	0.30
15.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.089	0.000	7.442	0.00	8.90
15.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	7.442	0.00	4.00
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.089	0.000	7.442	0.00	0.80
20.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	7.896	0.00	1.37
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.091	0.000	7.896	0.00	57.20
20.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	7.896	0.00	5.50
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	7.896	0.00	62.40
20.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	7.896	0.00	0.30
20.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.091	0.000	7.896	0.00	8.90
20.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	7.896	0.00	4.00
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.091	0.000	7.896	0.00	0.80
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	8.276	0.00	1.37
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.093	0.000	8.276	0.00	57.20
25.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	8.276	0.00	5.50
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	8.276	0.00	62.40
25.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	8.276	0.00	0.30
25.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.093	0.000	8.276	0.00	8.90
25.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	8.276	0.00	4.00
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	8.276	0.00	0.80
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	8.600	0.00	1.37
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.095	0.000	8.600	0.00	57.20
30.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	8.600	0.00	5.50
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	8.600	0.00	62.40
30.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	8.600	0.00	0.30
30.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.095	0.000	8.600	0.00	8.90
30.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	8.600	0.00	4.00

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 47	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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)
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.095	0.000	8.600	0.00	0.80
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.883	0.00	1.37
35.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.097	0.000	8.883	0.00	57.20
35.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.883	0.00	5.50
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.883	0.00	62.40
35.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.883	0.00	0.30
35.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.097	0.000	8.883	0.00	8.90
35.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.883	0.00	4.00
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.097	0.000	8.883	0.00	0.80
38.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	9.076	0.00	1.02
38.75	1 5/8" Coax	Yes	3.75	0.000	1.98	0.62	0.00	0.099	0.000	9.076	0.00	42.90
38.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	9.076	0.00	4.13
38.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	9.076	0.00	46.80
38.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	9.076	0.00	0.22
38.75	3" Coax	Yes	3.75	0.000	3.00	0.94	0.00	0.099	0.000	9.076	0.00	6.67
38.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	9.076	0.00	3.00
38.75	1/2" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.099	0.000	9.076	0.00	0.60
40.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	9.137	0.00	0.34
40.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.100	0.000	9.137	0.00	14.30
40.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	9.137	0.00	1.38
40.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	9.137	0.00	15.60
40.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	9.137	0.00	0.07
40.00	3" Coax	Yes	1.25	0.000	3.00	0.31	0.00	0.100	0.000	9.137	0.00	2.23
40.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	9.137	0.00	1.00
40.00	1/2" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.100	0.000	9.137	0.00	0.20
45.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	9.366	0.00	1.37
45.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.101	1.004	9.366	0.00	57.20
45.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	9.366	0.00	5.50
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	9.366	0.00	62.40
45.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	9.366	0.00	0.30
45.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.101	1.004	9.366	0.00	8.90
45.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	9.366	0.00	4.00
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.101	1.004	9.366	0.00	0.80
50.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	9.576	0.00	1.37
50.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.102	1.006	9.576	0.00	57.20
50.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	9.576	0.00	5.50
50.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	9.576	0.00	62.40
50.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	9.576	0.00	0.30
50.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.102	1.006	9.576	0.00	8.90
50.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	9.576	0.00	4.00
50.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	9.576	0.00	0.80
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	9.770	0.00	1.37
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.104	1.013	9.770	0.00	57.20
55.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	9.770	0.00	5.50
55.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	9.770	0.00	62.40
55.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	9.770	0.00	0.30
55.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.104	1.013	9.770	0.00	8.90

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 48	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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)
55.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	9.770	0.00	4.00
55.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.104	1.013	9.770	0.00	0.80
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	9.951	0.00	1.37
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.107	1.021	9.951	0.00	57.20
60.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	9.951	0.00	5.50
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	9.951	0.00	62.40
60.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	9.951	0.00	0.30
60.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.107	1.021	9.951	0.00	8.90
60.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	9.951	0.00	4.00
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.021	9.951	0.00	0.80
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	10.120	0.00	1.37
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.110	1.029	10.120	0.00	57.20
65.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	10.120	0.00	5.50
65.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	10.120	0.00	62.40
65.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	10.120	0.00	0.30
65.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.110	1.029	10.120	0.00	8.90
65.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	10.120	0.00	4.00
65.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.110	1.029	10.120	0.00	0.80
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	10.279	0.00	1.37
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.112	1.037	10.279	0.00	57.20
70.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	10.279	0.00	5.50
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	10.279	0.00	62.40
70.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	10.279	0.00	0.30
70.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.112	1.037	10.279	0.00	8.90
70.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	10.279	0.00	4.00
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.037	10.279	0.00	0.80
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	10.430	0.00	1.37
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.115	1.046	10.430	0.00	57.20
75.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	10.430	0.00	5.50
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	10.430	0.00	62.40
75.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	10.430	0.00	0.30
75.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.115	1.046	10.430	0.00	8.90
75.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	10.430	0.00	4.00
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.115	1.046	10.430	0.00	0.80
78.50	Safety Cable	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	10.530	0.00	0.96
78.50	1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	0.118	1.053	10.530	0.00	40.04
78.50	1 5/8" Fiber	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	10.530	0.00	3.85
78.50	1 5/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	10.530	0.00	43.68
78.50	10 mm	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	10.530	0.00	0.21
78.50	3" Coax	Yes	3.50	0.000	3.00	0.88	0.00	0.118	1.053	10.530	0.00	6.23
78.50	DC	Yes	3.50	0.000	0.00	0.00	0.00	0.118	1.053	10.530	0.00	2.80
80.00	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	10.572	0.00	0.41
80.00	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.119	1.058	10.572	0.00	17.16
80.00	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	10.572	0.00	1.65
80.00	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	10.572	0.00	18.72
80.00	10 mm	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	10.572	0.00	0.09
80.00	3" Coax	Yes	1.50	0.000	3.00	0.38	0.00	0.119	1.058	10.572	0.00	2.67

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 49	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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)
80.00	DC	Yes	1.50	0.000	0.00	0.00	0.00	0.119	1.058	10.572	0.00	1.20
83.75	Safety Cable	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	10.675	0.00	1.02
83.75	1 5/8" Coax	Yes	3.75	0.000	1.98	0.62	0.00	0.121	1.063	10.675	0.00	42.90
83.75	1 5/8" Fiber	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	10.675	0.00	4.13
83.75	1 5/8" Coax	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	10.675	0.00	46.80
83.75	10 mm	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	10.675	0.00	0.22
83.75	3" Coax	Yes	3.75	0.000	3.00	0.94	0.00	0.121	1.063	10.675	0.00	6.67
83.75	DC	Yes	3.75	0.000	0.00	0.00	0.00	0.121	1.063	10.675	0.00	3.00
85.00	Safety Cable	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	10.708	0.00	0.34
85.00	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.121	1.063	10.708	0.00	14.30
85.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	10.708	0.00	1.38
85.00	1 5/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	10.708	0.00	15.60
85.00	10 mm	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	10.708	0.00	0.07
85.00	3" Coax	Yes	1.25	0.000	3.00	0.31	0.00	0.121	1.063	10.708	0.00	2.23
85.00	DC	Yes	1.25	0.000	0.00	0.00	0.00	0.121	1.063	10.708	0.00	1.00
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	10.838	0.00	1.37
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.123	1.069	10.838	0.00	57.20
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	10.838	0.00	5.50
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	10.838	0.00	62.40
90.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	10.838	0.00	0.30
90.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.123	1.069	10.838	0.00	8.90
90.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	10.838	0.00	4.00
95.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	10.962	0.00	1.37
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.126	1.079	10.962	0.00	57.20
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	10.962	0.00	5.50
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	10.962	0.00	62.40
95.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	10.962	0.00	0.30
95.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.126	1.079	10.962	0.00	8.90
95.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.126	1.079	10.962	0.00	4.00
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	11.081	0.00	1.37
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.130	1.090	11.081	0.00	57.20
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	11.081	0.00	5.50
100.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	11.081	0.00	62.40
100.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	11.081	0.00	0.30
100.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.130	1.090	11.081	0.00	8.90
100.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.130	1.090	11.081	0.00	4.00
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	11.195	0.00	1.37
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.134	1.102	11.195	0.00	57.20
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	11.195	0.00	5.50
105.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	11.195	0.00	62.40
105.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	11.195	0.00	0.30
105.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.134	1.102	11.195	0.00	8.90
105.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.102	11.195	0.00	4.00
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	11.305	0.00	1.37
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.138	1.115	11.305	0.00	57.20
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	11.305	0.00	5.50
110.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	11.305	0.00	62.40

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 50	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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)
110.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	11.305	0.00	0.30
110.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.138	1.115	11.305	0.00	8.90
110.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.138	1.115	11.305	0.00	4.00
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	11.412	0.00	1.37
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.143	1.128	11.412	0.00	57.20
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	11.412	0.00	5.50
115.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	11.412	0.00	62.40
115.00	10 mm	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	11.412	0.00	0.30
115.00	3" Coax	Yes	5.00	0.000	3.00	1.25	0.00	0.143	1.128	11.412	0.00	8.90
115.00	DC	Yes	5.00	0.000	0.00	0.00	0.00	0.143	1.128	11.412	0.00	4.00
119.25	Safety Cable	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	11.499	0.00	1.16
119.25	1 5/8" Coax	Yes	4.25	0.000	1.98	0.70	0.00	0.147	1.141	11.499	0.00	48.62
119.25	1 5/8" Fiber	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	11.499	0.00	4.68
119.25	1 5/8" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	11.499	0.00	53.04
119.25	10 mm	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	11.499	0.00	0.26
119.25	3" Coax	Yes	4.25	0.000	3.00	1.06	0.00	0.147	1.141	11.499	0.00	7.57
119.25	DC	Yes	4.25	0.000	0.00	0.00	0.00	0.147	1.141	11.499	0.00	3.40
120.00	Safety Cable	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	11.514	0.00	0.20
120.00	1 5/8" Coax	Yes	0.75	0.000	1.98	0.12	0.00	0.149	1.148	11.514	0.00	8.58
120.00	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	11.514	0.00	0.83
120.00	1 5/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	11.514	0.00	9.36
120.00	10 mm	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	11.514	0.00	0.04
120.00	3" Coax	Yes	0.75	0.000	3.00	0.19	0.00	0.149	1.148	11.514	0.00	1.33
120.00	DC	Yes	0.75	0.000	0.00	0.00	0.00	0.149	1.148	11.514	0.00	0.60
122.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	11.554	0.00	0.55
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.151	1.152	11.554	0.00	22.88
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	11.554	0.00	2.20
122.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	11.554	0.00	24.96
122.00	10 mm	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	11.554	0.00	0.12
122.00	3" Coax	Yes	2.00	0.000	3.00	0.50	0.00	0.151	1.152	11.554	0.00	3.56
122.00	DC	Yes	2.00	0.000	0.00	0.00	0.00	0.151	1.152	11.554	0.00	1.60
123.50	Safety Cable	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	11.584	0.00	0.41
123.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.061	0.000	11.584	0.00	17.16
123.50	1 5/8" Fiber	Yes	1.50	0.000	0.00	0.00	0.00	0.061	0.000	11.584	0.00	1.65
124.50	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	11.604	0.00	0.27
124.50	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.060	0.000	11.604	0.00	11.44
124.50	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.060	0.000	11.604	0.00	1.10
125.00	Safety Cable	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	11.614	0.00	0.14
125.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.061	0.000	11.614	0.00	5.72
125.00	1 5/8" Fiber	Yes	0.50	0.000	0.00	0.00	0.00	0.061	0.000	11.614	0.00	0.55
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	11.710	0.00	1.37
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.062	0.000	11.710	0.00	57.20
130.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.062	0.000	11.710	0.00	5.50
132.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	11.748	0.00	0.55
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	11.748	0.00	22.88
132.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	11.748	0.00	2.20
135.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	11.803	0.00	0.82

Linear Appurtenance Segment Forces (Factored)

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 51	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 23

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)
135.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.064	0.000	11.803	0.00	34.32
135.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	11.803	0.00	3.30
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	11.894	0.00	1.37
140.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.066	0.000	11.894	0.00	57.20
140.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	11.894	0.00	5.50
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	11.982	0.00	1.37
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.069	0.000	11.982	0.00	57.20
145.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	11.982	0.00	5.50
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	12.068	0.00	1.37
150.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.072	0.000	12.068	0.00	57.20
150.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	12.068	0.00	5.50
152.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	12.102	0.00	0.55
152.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.074	0.000	12.102	0.00	22.88
152.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.074	0.000	12.102	0.00	2.20
155.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	12.152	0.00	0.82
160.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	12.233	0.00	1.37
162.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	12.265	0.00	0.55
										Totals:	**0.0**	**3,806.9**

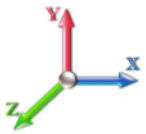
Calculated Forces

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 52	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

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	-46.27	-9.58	0.00	-1130.4	0.00	1130.40	5422.04	2711.02	12776.1	6397.58	0.00	0.000	0.000	0.185
5.00	-44.70	-9.49	0.00	-1082.5	0.00	1082.50	5354.65	2677.32	12373.4	6195.90	0.03	-0.048	0.000	0.183
10.00	-43.15	-9.40	0.00	-1035.0	0.00	1035.05	5285.82	2642.91	11973.5	5995.67	0.10	-0.096	0.000	0.181
15.00	-41.64	-9.31	0.00	-988.06	0.00	988.06	5215.55	2607.78	11576.7	5796.99	0.23	-0.145	0.000	0.178
20.00	-40.14	-9.21	0.00	-941.52	0.00	941.52	5143.86	2571.93	11183.2	5599.96	0.41	-0.194	0.000	0.176
25.00	-38.68	-9.11	0.00	-895.48	0.00	895.48	5070.72	2535.36	10793.2	5404.66	0.64	-0.245	0.000	0.173
30.00	-37.24	-9.00	0.00	-849.95	0.00	849.95	4996.16	2498.08	10406.9	5211.21	0.92	-0.295	0.000	0.171
35.00	-35.83	-8.88	0.00	-804.97	0.00	804.97	4920.16	2460.08	10024.5	5019.70	1.26	-0.347	0.000	0.168
38.75	-34.78	-8.79	0.00	-771.67	0.00	771.67	4862.22	2431.11	9740.32	4877.40	1.55	-0.386	0.000	0.165
40.00	-34.19	-8.77	0.00	-760.68	0.00	760.68	4842.73	2421.36	9646.11	4830.22	1.65	-0.399	0.000	0.165
45.00	-31.84	-8.64	0.00	-716.83	0.00	716.83	3936.38	1968.19	7803.92	3907.76	2.10	-0.452	0.000	0.192
50.00	-30.64	-8.52	0.00	-673.63	0.00	673.63	3877.34	1938.67	7510.22	3760.69	2.60	-0.505	0.000	0.187
55.00	-29.47	-8.40	0.00	-631.02	0.00	631.02	3816.87	1908.43	7219.20	3614.96	3.16	-0.564	0.000	0.182
60.00	-28.32	-8.28	0.00	-589.02	0.00	589.02	3754.96	1877.48	6931.04	3470.67	3.78	-0.623	0.000	0.177
65.00	-27.19	-8.15	0.00	-547.64	0.00	547.64	3691.62	1845.81	6645.93	3327.91	4.46	-0.682	0.000	0.172
70.00	-26.09	-8.02	0.00	-506.88	0.00	506.88	3626.84	1813.42	6364.09	3186.77	5.21	-0.741	0.000	0.166
75.00	-25.00	-7.88	0.00	-466.76	0.00	466.76	3560.63	1780.31	6085.69	3047.37	6.02	-0.800	0.000	0.160
78.50	-24.26	-7.78	0.00	-439.19	0.00	439.19	3513.43	1756.71	5892.98	2950.87	6.62	-0.842	0.000	0.156
80.00	-23.73	-7.75	0.00	-427.51	0.00	427.51	3492.98	1746.49	5810.95	2909.79	6.89	-0.860	0.000	0.154
83.75	-22.44	-7.63	0.00	-398.47	0.00	398.47	2742.50	1371.25	4553.78	2280.28	7.58	-0.904	0.000	0.183
85.00	-22.21	-7.61	0.00	-388.93	0.00	388.93	2730.37	1365.18	4502.54	2254.62	7.82	-0.918	0.000	0.181
90.00	-21.32	-7.48	0.00	-350.88	0.00	350.88	2680.95	1340.47	4298.92	2152.65	8.82	-0.983	0.000	0.171
95.00	-20.44	-7.35	0.00	-313.49	0.00	313.49	2630.10	1315.05	4097.56	2051.82	9.88	-1.047	0.000	0.161
100.00	-19.59	-7.21	0.00	-276.76	0.00	276.76	2577.82	1288.91	3898.66	1952.23	11.01	-1.108	0.000	0.149
105.00	-17.56	-6.75	0.00	-240.70	0.00	240.70	2524.10	1262.05	3702.43	1853.97	12.20	-1.167	0.000	0.137
110.00	-16.74	-6.61	0.00	-206.97	0.00	206.97	2468.95	1234.47	3509.05	1757.13	13.46	-1.223	0.000	0.125
115.00	-15.94	-6.47	0.00	-173.92	0.00	173.92	2412.36	1206.18	3318.73	1661.83	14.76	-1.275	0.000	0.111
119.25	-15.28	-6.35	0.00	-146.42	0.00	146.42	2363.14	1181.57	3159.50	1582.10	15.92	-1.316	0.000	0.099
120.00	-15.10	-6.33	0.00	-141.66	0.00	141.66	2354.34	1177.17	3131.65	1568.15	16.13	-1.323	0.000	0.097
122.00	-13.01	-5.45	0.00	-129.00	0.00	129.00	2330.73	1165.37	3057.78	1531.16	16.68	-1.341	0.000	0.090
123.50	-12.68	-5.41	0.00	-120.83	0.00	120.83	1751.58	875.79	2319.28	1161.36	17.11	-1.354	0.000	0.111
124.50	-12.03	-5.06	0.00	-115.42	0.00	115.42	1743.79	871.89	2293.08	1148.24	17.39	-1.362	0.000	0.107
125.00	-11.97	-5.05	0.00	-112.89	0.00	112.89	1739.87	869.94	2280.00	1141.69	17.54	-1.367	0.000	0.106
130.00	-11.40	-4.93	0.00	-87.64	0.00	87.64	1699.92	849.96	2150.20	1076.70	18.99	-1.411	0.000	0.088
132.00	-8.32	-3.39	0.00	-77.77	0.00	77.77	1683.54	841.77	2098.80	1050.96	19.59	-1.427	0.000	0.079
135.00	-8.03	-3.32	0.00	-67.60	0.00	67.60	1658.53	829.27	2022.29	1012.65	20.49	-1.449	0.000	0.072
140.00	-7.56	-3.21	0.00	-50.99	0.00	50.99	1615.71	807.86	1896.47	949.64	22.03	-1.482	0.000	0.058
145.00	-7.10	-3.10	0.00	-34.94	0.00	34.94	1571.46	785.73	1772.93	887.78	23.59	-1.508	0.000	0.044
150.00	-6.66	-2.99	0.00	-19.45	0.00	19.45	1525.77	762.88	1651.87	827.16	25.18	-1.526	0.000	0.028
152.00	-2.91	-1.41	0.00	-13.48	0.00	13.48	1507.09	753.54	1604.19	803.29	25.82	-1.531	0.000	0.019
155.00	-2.69	-1.34	0.00	-9.26	0.00	9.26	1478.64	739.32	1533.49	767.89	26.79	-1.537	0.000	0.014
160.00	-2.34	-1.24	0.00	-2.54	0.00	2.54	1426.03	713.01	1413.96	708.03	28.40	-1.542	0.000	0.005
162.00	0.00	-1.18	0.00	-0.06	0.00	0.06	1400.09	700.04	1362.73	682.38	29.05	-1.542	0.000	0.000

Final Analysis Summary

Structure:	CT01698-S-SBA	**Code:**	EIA/TIA-222-G	9/17/2021	
Site Name:	Durham	**Exposure:**	C		
Height:	162.00 (ft)	**Crest Height:**	0.00		
Base Elev:	0.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 53	

Tower Engineering Solutions

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 + 1.6W 97 mph Wind	40.1	0.00	55.46	0.00	0.00	4755.18
0.9D + 1.6W 97 mph Wind	40.1	0.00	41.58	0.00	0.00	4701.24
1.2D + 1.0Di + 1.0Wi 50 mph Wind	11.4	0.00	99.17	0.00	0.00	1367.46
1.2D + 1.0E	2.0	0.00	55.53	0.00	0.00	259.22
0.9D + 1.0E	2.0	0.00	41.65	0.00	0.00	256.00
1.0D + 1.0W 60 mph Wind	9.6	0.00	46.27	0.00	0.00	1130.40

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 + 1.6W 97 mph Wind	-37.03	-36.35	0.00	-3020.1	0.00	-3020.1	3936.38	1968.1	7803.92	3907.76	45.00	0.783
0.9D + 1.6W 97 mph Wind	-27.48	-36.00	0.00	-2974.8	0.00	-2974.8	3936.38	1968.1	7803.92	3907.76	45.00	0.769
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-73.51	-10.48	0.00	-870.69	0.00	-870.69	3936.38	1968.1	7803.92	3907.76	45.00	0.242
1.2D + 1.0E	-27.06	-1.55	0.00	-109.66	0.00	-109.66	2742.50	1371.2	4553.78	2280.28	83.75	0.058
0.9D + 1.0E	-20.30	-1.52	0.00	-107.85	0.00	-107.85	2742.50	1371.2	4553.78	2280.28	83.75	0.055
1.0D + 1.0W 60 mph Wind	-31.84	-8.64	0.00	-716.83	0.00	-716.83	3936.38	1968.1	7803.92	3907.76	45.00	0.192

Base Plate Summary

Structure:	CT01698-S-SB		**Code:**	EIA/TIA-222-G	9/17/2021
Site Name:	Durham		**Exposure:**	C	
Height:	162.00 (ft)		**Crest Height:**	0.00	
Base Elev:	0.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 54

Tower Engineering Solutions

Reactions	
Original Design	
Moment (kip-ft):	4550.00
Axial (kip):	36.00
Shear (kip):	37.00
Analysis (1.2D + 1.6W)	
Moment (kip-ft):	4755.18
Axial (kip):	55.46
Shear (kip):	40.09

Base Plate	
Yield (ksi):	50.00
Width (in):	64.00
Style:	Clipped
Polygon Sides:	0.00
Clip Length (in):	14.00
Effective Len (in):	9.03
Moment (kip-in):	652.63
Allow Stress (ksi):	67.50
Applied Stress (ksi):	47.92
Stress Ratio:	0.71

Anchor Bolts	
Bolt Circle:	65.00
Number Bolts:	20.00
Bolt Type:	2.25" 18J
Bolt Diameter (in):	2.25
Yield (ksi):	75.00
Ultimate (ksi):	100.00
Arrangement:	Clustered
Cluster Dist (in):	6.00
Start Angle (deg):	45.00
Compression	
Force (kip):	180.53
Allowable (kip):	260.00
Ratio:	0.71
Tension	
Force (kip):	170.62
Allowable (kip):	260.00
Ratio:	0.67

Monopole Mat Foundation Design

			Date: 7/30/2021
Customer Name:	Verizon	**EIA/TIA Standard:**	EIA-222-G
Site Name:		**Structure Height (Ft.):**	162
Site Number:	CT01698-S-SBA	**Engineer Name:**	S. Hesselbein
Engr. Number:	111976	**Engineer Login ID:**	

Foundation Info Obtained from: Mapping Operation

Structure Type: Monopole

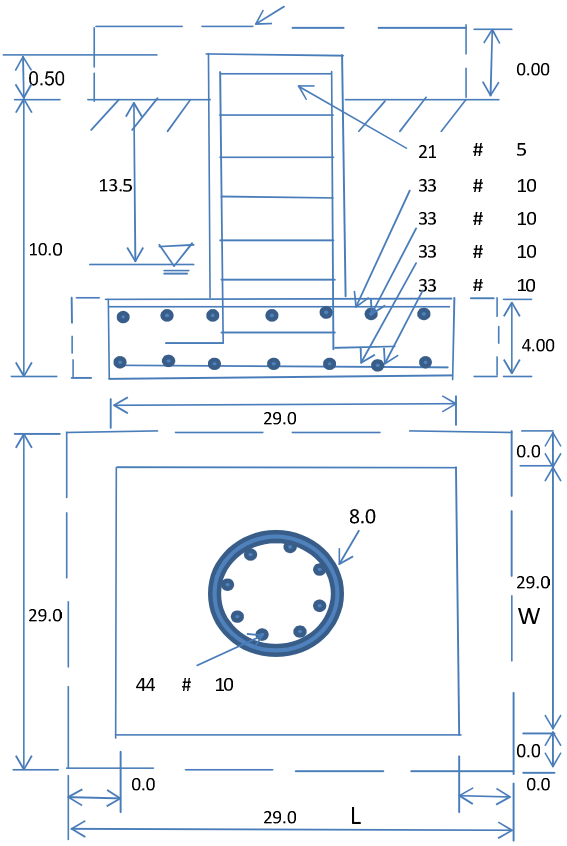
Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	55.5	Shear Force (Kips):	40.1
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4755.2
Allowable overstress %:	5.0%		

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	8.0	Depth of Base BG (ft.):	10.0
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	4.00
Length of Pad (ft.):	29	Width of Pad (ft.):	29
Final Length of pad (ft)	29.0	Final width of pad (ft):	29.0



Material Properties and Reabr Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	40	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	44	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	10	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	33	Qty. of Rebar in Pad (W):	33	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	33	Qty. of Rebar in Pad (W):	33	
Apply 1.35 factor for e/w Per G:	1.35			

Soil Design Parameters:

Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	50.0	Pcf		
Water Table B.G.S. (ft):	13.5	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	4000	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.):	4744.41	Total Dry Soil Weight (Kips):	569.33
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	569.33	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	3690.73	Total Dry Concrete Weight (Kips):	553.61
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	553.61	Total Vertical Load on Base (Kips):	1178.44

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	2394	<	Allowable Factored Soil Bearing (psf):	3000	0.80	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	15459.1	>	Design Factored Momont (kips-ft):	5176	0.33	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.99	OK!				

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):
Strength reduction factor (Axial compresion):
Strength reduction factor (Shear):
Wind Load Factor on Concrete Design:

ad Capacity Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):			Tie / Stirrup Area (sq. in./each):	
Calculated Moment Capacity (Mn,Kips-Ft):		>	Design Factored Moment (Mu, Kips-	
Calculated Shear Capacity (Kips):		>	Design Factored Shear (Kips):	
Calculated Tension Capacity (Tn, Kips):		>	Design Factored Tension (Tu Kips):	
Calculated Compression Capacity (Pn, Kips):		>	Design Factored Axial Load (Pu Kips):	
Moment & Axial Strength Combination:		OK!	Check Tie Spacing (Design/Required):	
Pier Reinforcement Ratio:			Reinforcement Ratio is satisfied per ACI	

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):			One-Way Factored Shear (L-D. Kips):	301.3
One-Way Design Shear Capacity (W-Direction, Kips):			One-Way Factored Shear (W-D., Kips	
One-Way Design Shear Capacity (Corner-Corner. Kips):			One-Way Factored Shear (C-C, Kips):	270.0
Lower Steel Pad Reinforcement Ratio (L-Direct.):			Lower Steel Pad Reinf. Ratio (W-Direc	
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):			Moment at Bottom (L-Dir. K-Ft):	
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):			Moment at Bottom (W-Dir. K-Ft):	
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):			Moment at Bottom (C-C Dir. K-Ft):	2946.2
Upper Steel Pad Reinforcement Ratio (L-Direct.):			Upper Steel Reinf. Ratio (W-Dir.):	
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):			Moment at the top (L-Dir K-Ft):	
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):			Moment at the top (W-Dir K-Ft):	
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):			Moment at the top (C-C Dir. K-Ft):	

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

Moment transferred by punching shear:	1902.1	k-ft.	Max. factored shear stress v_{u_CD}	Psi
Max. factored shear stress v_{u_AB}		Psi	Factored shear Strength ϕv_n	Psi
Max. factored shear stress v_u		Psi	Check Usage of Punching Shear Capacity:	OK!

CENTEK engineering

Centered on Solutions℠

August 13, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

Re: Structural Letter ~ Antenna Mounts
Verizon – Site Ref: Old Saybrook CTR
19 Main Street
Old Saybrook, CT 06475

Centek Project No. 21007.41

Dear Mr. Leone,

Centek Engineering, Inc. has reviewed the Verizon equipment upgrade at the above referenced site. The purpose of the review is to determine the structural adequacy of the existing RF screen frame and host building to accommodate the proposed equipment configuration. The review considered the effects of wind load, dead load and ice load in accordance with the 2015 International Building Code as modified by the 2018 Connecticut State Building Code (CTBC).

The Verizon loads considered in this evaluation consist of the following:

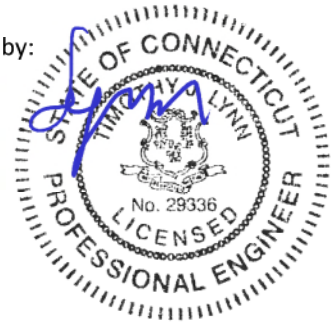
- **Verizon (Proposed Final Configuration):**
  All Sectors: Three (3) JMA MX06FIT465-02 panel antennas and three (3) JMA MX14FIT465-01 panel antennas mounted within an existing RF transparent enclosure on the roof of the host building with a RAD center elevation of +/- 29.7-ft AGL. Three (3) Samsung RF4439d-25A RRUs, three (3) Samsung RF4440d-13 A RRUs, three (3) Samung RT-8808-77A RRUs and one (1) OVP box to the RF transparent enclosure steel support frame on the roof of the host building.

All antennas will be mounted within the existing enclosure and RRHs will be mounted on the steel support frame behind the building roof parapet resulting in no increase to the overall loading on the existing host building support framing above the original design.

Based on our review of the installation, it is our opinion that the subject RF screen frame and host building **have sufficient capacity** to support the aforementioned equipment configuration. Our findings are based on the assumption that the hosting structure, all structural members and appurtenances were properly designed, detailed, fabricated, installed and have been properly maintained since erection. If there are any questions regarding this matter, please feel free to call

Respectfully Submitted by:

Timothy J. Lynn, PE
Structural Engineer



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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10074256
Maser Consulting Connecticut Project #: 21777084A

June 24, 2021

Site Information	*Site ID:*	*467923-VZW / WALLINGFORD 2 CT*
	Site Name:	*WALLINGFORD 2 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*1605 Durham Road* *Wallingford, Connecticut 06492* *New Haven County*
	Latitude:	*41.469547°*
	Longitude:	*-72.742178°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 16272056

Analysis Results

Platform: **82.6% Pass**

Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:05:16-04'00'

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Frank Centone

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 325035, dated April 29, 2021*
Mount Mapping Report	*Level-Up Towers, Site ID: CT01698, dated February 20, 2021*
Previous Mount Analysis Report	*Maser Consulting Connecticut Project #: 21777084A, dated May 28, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut Project #: 21777084A, dated June 24, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	120 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.988
Seismic Parameters:	S_S:	0.208
	S_1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
130.50	133.50	3	Samsung	MT6407-77A	Added
	132.00	1	Raycap	RVZDC-6627-PF-48	
		6	JMA Wireless	MX06FRO660-02	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		4	Andrew	DB846F65ZAXY	Retained
		2	Amphenol Antel	LPA-80080-4CF	

The recent mount mapping did not report existing OVP units. However, 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.

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Corner Angle	54.1%	Pass
Support Rail	28.2%	Pass
Mount Pipe	45.7%	Pass
New Mount Pipe	43.1%	Pass
Corner Plate	21.1%	Pass
Cross Arm Plate	36.0%	Pass
Grating Support	18.9%	Pass
Platform Crossmember	18.5%	Pass
Standoff Horizontal	37.1%	Pass
Equipment Pipe	12.0%	Pass
Face Horizontal	19.2%	Pass
Connection Check	82.6%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**82.6%**

Recommendation:

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

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

Attachments:

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

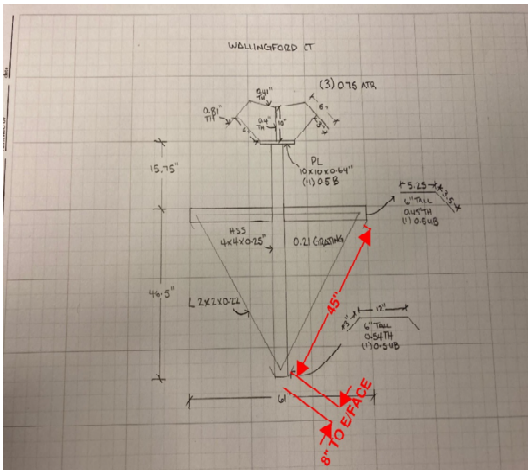

02.20.2021 14:59

V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1228227

Tower Owner:	SBA TOWERS	**Mapping Date:**	2/20/2021
Site Name:	WALLINGFORD 2	**Tower Type:**	MONOPOLE
Site Number or ID:	CT01698	**Tower Height (Ft.):**	
Mapping Contractor:	LEVEL-UP TOWERS	**Mount Elevation (Ft.):**	132

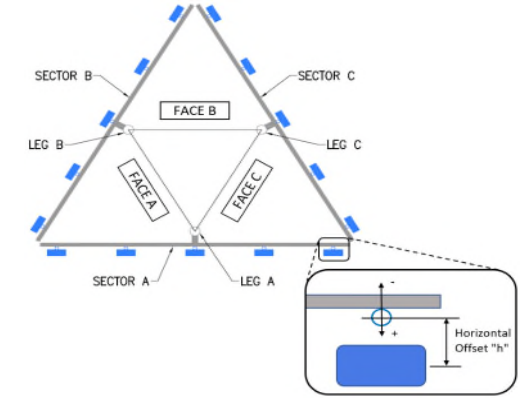


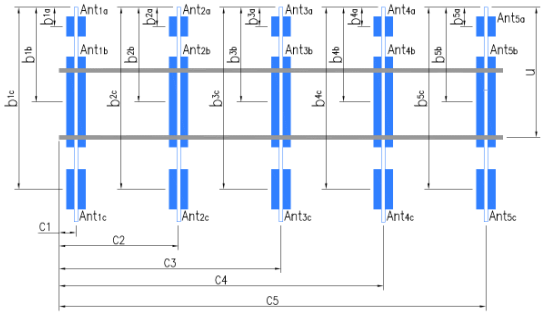
Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4x0.25x72	51.00	10.00	C1	2.4x0.25x0.71	51.00	10.00
A2	2.39x0.16x72	54.00	74.75	C2	2.38x0.16x0.72	54.00	74.75
A3	2.38x0.24x72	54.00	116.00	C3	2.38x0.24x72	54.00	116.00
A4	2.38x0.22x72	51.00	141.50	C4	2.38x0.22x72	51.00	141.50
A5				C5			
A6				C6			
B1	2.4x0.25x72	51.00	10.00	D1			
B2	2.39x0.16x72	54.00	74.75	D2			
B3	2.38x0.24x72	54.00	116.00	D3			
B4	2.38x0.22x72	51.00	141.50	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	75
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	32



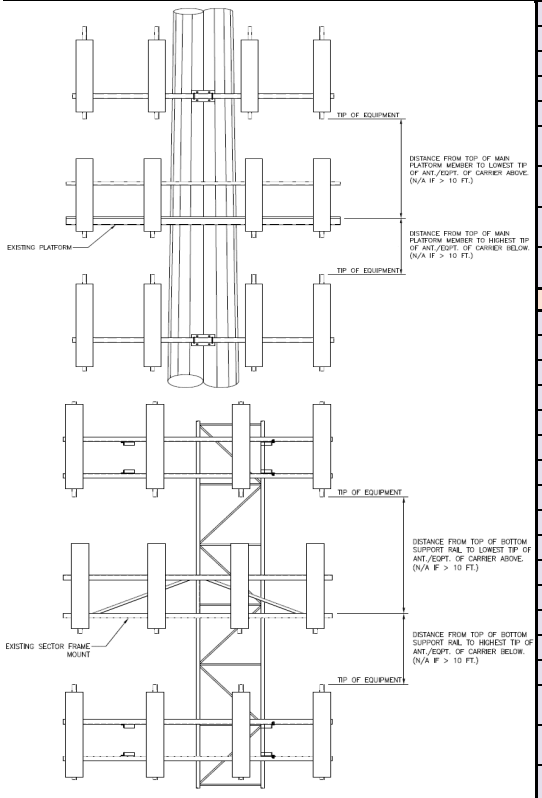


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}	LPA-80080-4CF-EDIN	9.75	8.00	71.00	(1) 1 5/8	133.583	32.00	8.00	69.00	7
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	BXA-70063-6CF-EDIN	11.25	4.50	71.00	(1) 1 5/8	133.75	33.00	9.00	79.00	9
Ant_{2b}	RFS	6.50	0.75	4.00		134.646	22.25	-2.50		9
Ant_{2c}										
Ant_{3a}	BXA-171063-8BF-EDIN	6.25	4.00	72.00	(1) 1 5/8	133.417	37.00	8.00	79.00	11
Ant_{3b}	RFS	6.50	0.75	4.00		134.646	22.25	-2.50		11
Ant_{3c}										
Ant_{4a}	LPA-80080-4CF-EDIN	9.75	8.00	71.00	(1) 1 5/8	133.583	32.00	8.00	79.00	13
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	59.00	Deg	Leg A:		Deg
Sector B:	179.00	Deg	Leg B:		Deg
Sector C:	299.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	SECTOR B	Deg	Sector B
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}	LPA-80080-4CF-EDIN	9.75	8.00	71.00	(1) 1 5/8	133.583	32.00	8.00	189.00	15
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	BXA-70063-6CF-EDIN-	11.25	4.50	71.00	(1) 1 5/8	133.75	33.00	9.00	199.00	17
Ant_{2b}	RFS	6.50	0.75	4.00		134.646	22.25	-2.50		17
Ant_{2c}										
Ant_{3a}	BXA-171063-8BF-EDIN	6.25	4.00	72.00	(1) 1 5/8	133.417	37.00	8.00	199.00	19
Ant_{3b}	RFS	6.50	0.75	4.00		134.646	22.25	-2.50		19
Ant_{3c}										
Ant_{4a}	LPA-80080-4CF-EDIN	9.75	8.00	71.00	(1) 1 5/8	133.583	32.00	8.00	199.00	21
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_{1a}	LPA-80080-4CF-EDIN	9.75	8.00	71.00	(1) 1 5/8	133.583	32.00	8.00	309.00	23
Ant_{1b}										
Ant_{1c}										
Ant_{2a}	BXA-70063-6CF-EDIN-	11.25	4.50	71.00	(1) 1 5/8	133.75	33.00	9.00	319.00	25
Ant_{2b}	RFS	6.50	0.75	4.00		134.646	22.25	-2.50		25
Ant_{2c}										
Ant_{3a}	BXA-171063-8BF-EDIN	6.25	4.00	72.00	(1) 1 5/8	133.417	37.00	8.00	319.00	28
Ant_{3b}	RFS	6.50	0.75	4.00		134.646	22.25	-2.50		28
Ant_{3c}										
Ant_{4a}	LPA-80080-4CF-EDIN	9.75	8.00	71.00	(1) 1 5/8	133.583	32.00	8.00	319.00	30
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.

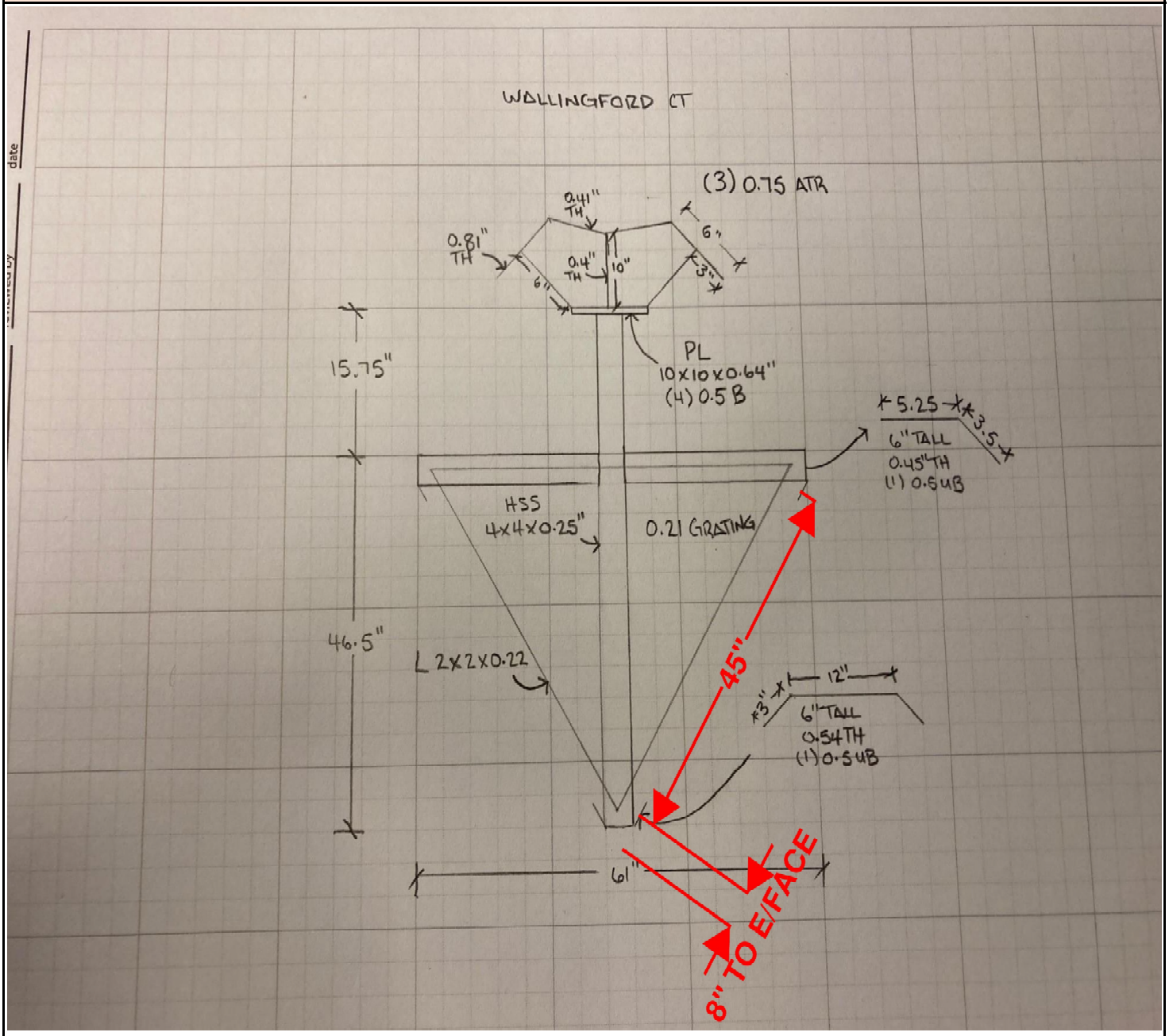
V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

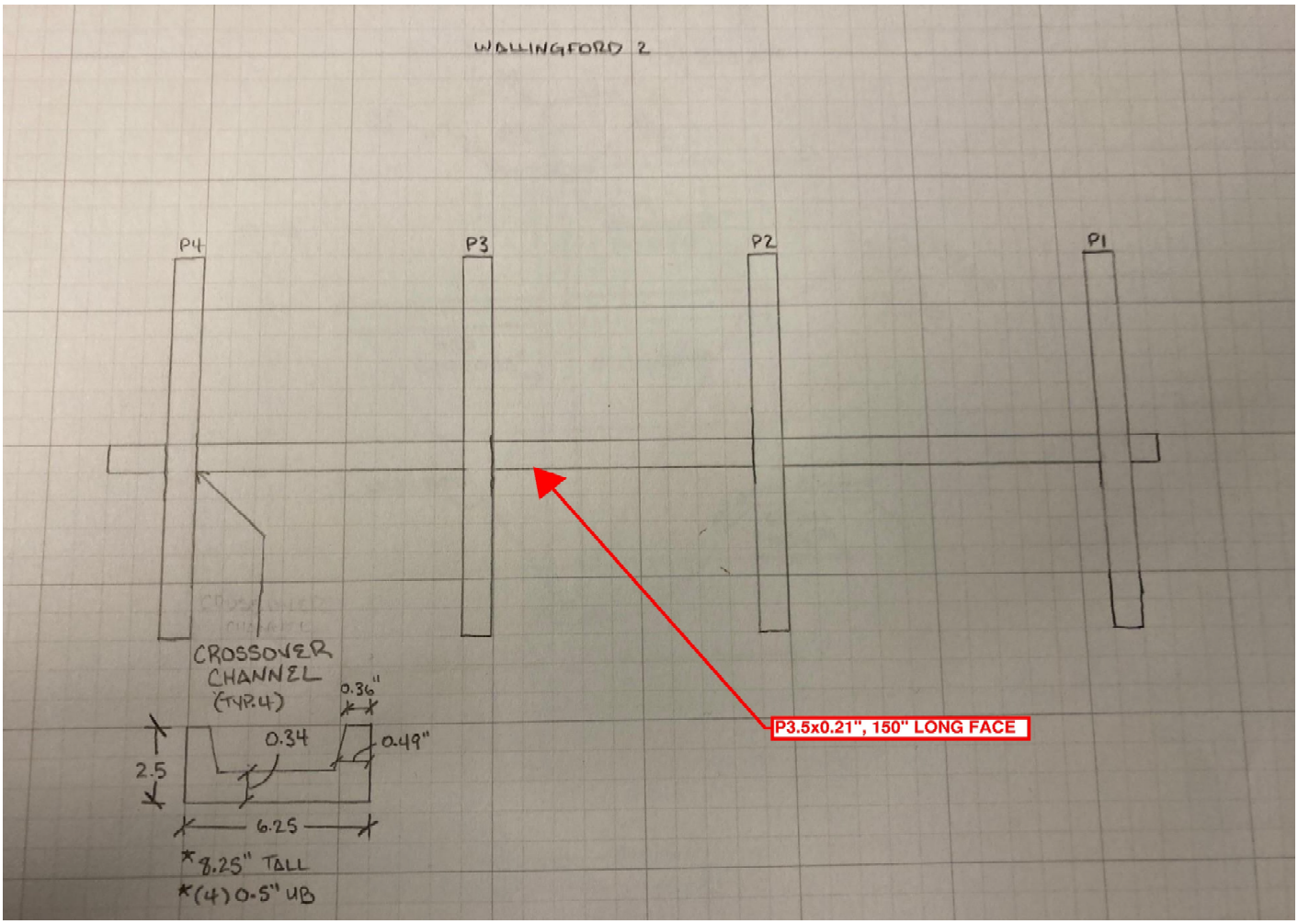
FCC # 1228227

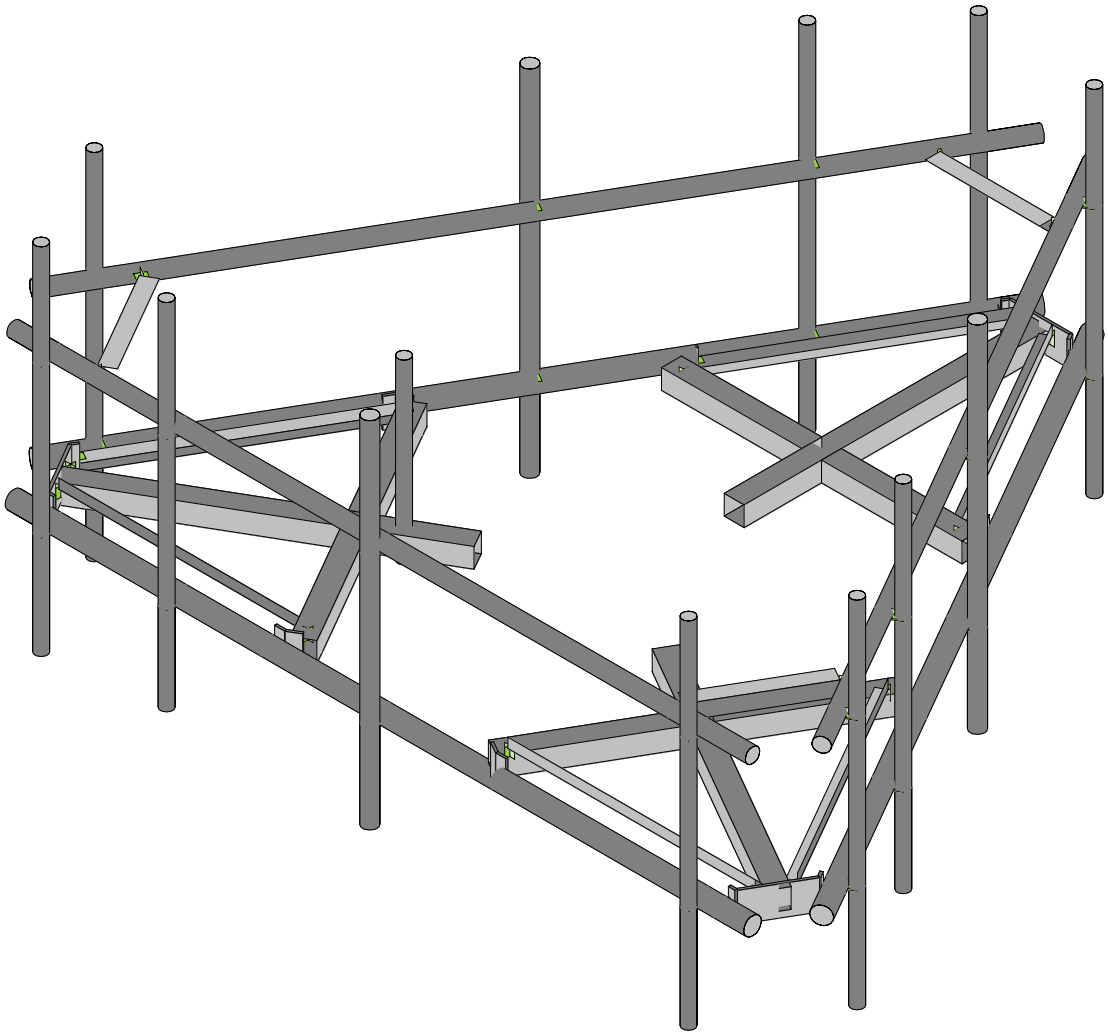
Tower Owner:	SBA TOWERS	**Mapping Date:**	2/20/2021
Site Name:	WALLINGFORD 2	**Tower Type:**	MONOPOLE
Site Number or ID:	CT01698	**Tower Height (Ft.):**	
Mapping Contractor:	LEVEL-UP TOWERS	**Mount Elevation (Ft.):**	132

Please Insert Sketches of the Antenna Mount

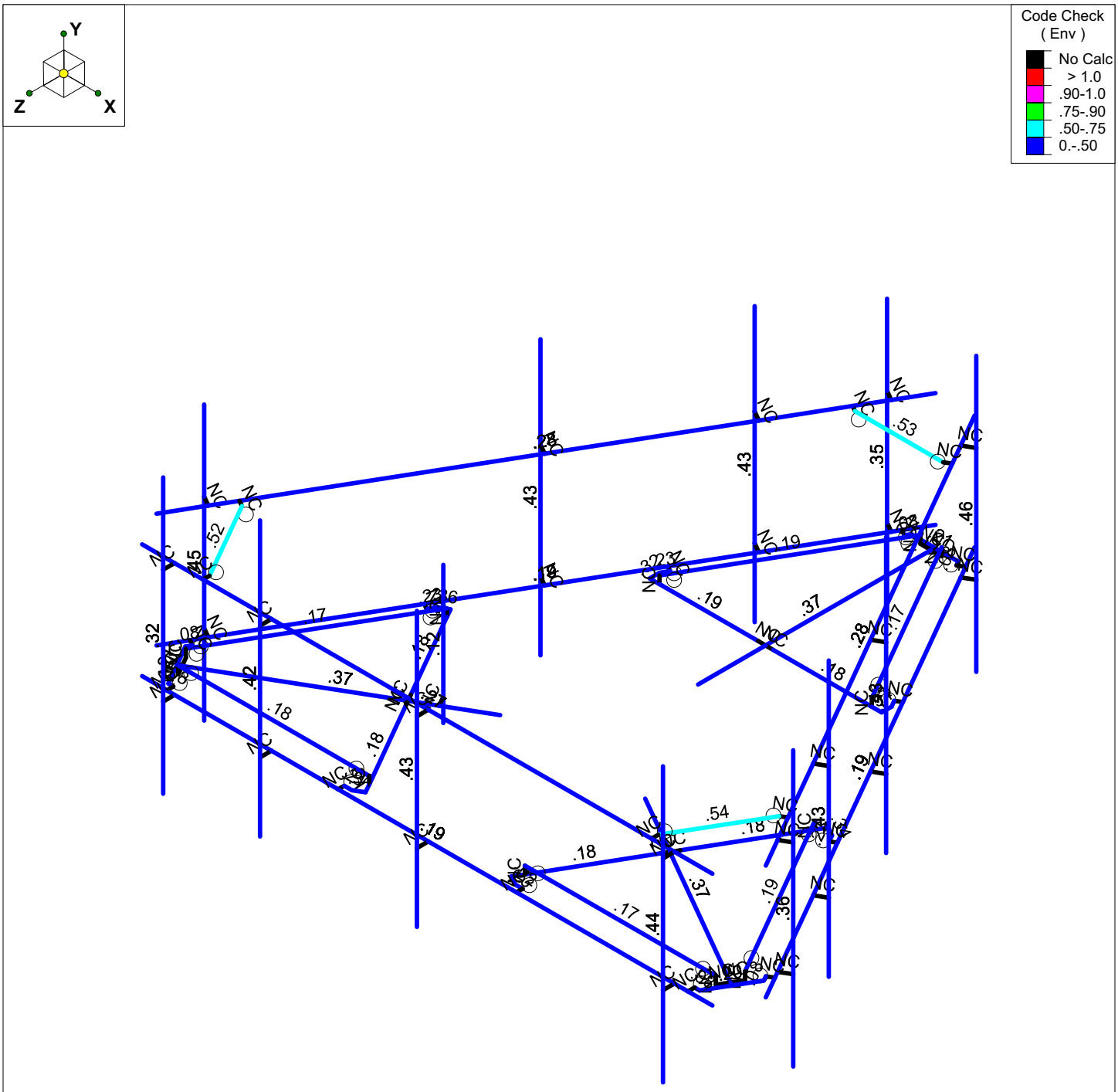


Please Insert Sketches of the Antenna Mount, cont'd



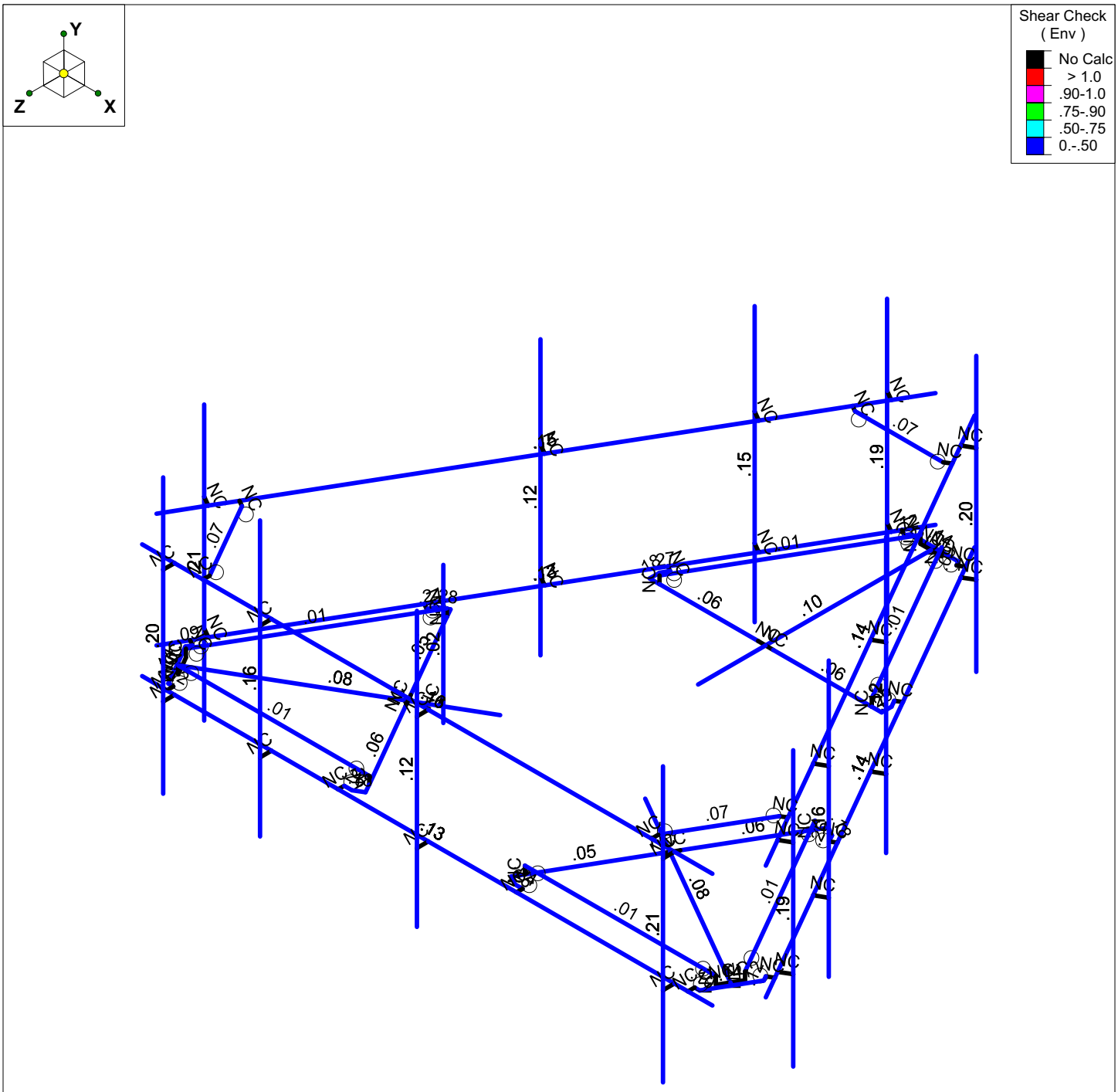


		SK - 1
		June 22, 2021 at 9:01 AM
		467923-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 2
		June 22, 2021 at 9:01 AM
		467923-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

		SK - 3
		June 22, 2021 at 9:01 AM
		467923-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					111			
2	Antenna Di	None					111			
3	Antenna Wo (0 Deg)	None					111			
4	Antenna Wo (30 Deg)	None					111			
5	Antenna Wo (60 Deg)	None					111			
6	Antenna Wo (90 Deg)	None					111			
7	Antenna Wo (120 Deg)	None					111			
8	Antenna Wo (150 Deg)	None					111			
9	Antenna Wo (180 Deg)	None					111			
10	Antenna Wo (210 Deg)	None					111			
11	Antenna Wo (240 Deg)	None					111			
12	Antenna Wo (270 Deg)	None					111			
13	Antenna Wo (300 Deg)	None					111			
14	Antenna Wo (330 Deg)	None					111			
15	Antenna Wi (0 Deg)	None					111			
16	Antenna Wi (30 Deg)	None					111			
17	Antenna Wi (60 Deg)	None					111			
18	Antenna Wi (90 Deg)	None					111			
19	Antenna Wi (120 Deg)	None					111			
20	Antenna Wi (150 Deg)	None					111			
21	Antenna Wi (180 Deg)	None					111			
22	Antenna Wi (210 Deg)	None					111			
23	Antenna Wi (240 Deg)	None					111			
24	Antenna Wi (270 Deg)	None					111			
25	Antenna Wi (300 Deg)	None					111			
26	Antenna Wi (330 Deg)	None					111			
27	Antenna Wm (0 Deg)	None					111			
28	Antenna Wm (30 Deg)	None					111			
29	Antenna Wm (60 Deg)	None					111			
30	Antenna Wm (90 Deg)	None					111			
31	Antenna Wm (120 Deg)	None					111			
32	Antenna Wm (150 Deg)	None					111			
33	Antenna Wm (180 Deg)	None					111			
34	Antenna Wm (210 Deg)	None					111			
35	Antenna Wm (240 Deg)	None					111			
36	Antenna Wm (270 Deg)	None					111			
37	Antenna Wm (300 Deg)	None					111			
38	Antenna Wm (330 Deg)	None					111			
39	Structure D	None		-1					3	
40	Structure Di	None						58	3	
41	Structure Wo (0 Deg)	None						116		
42	Structure Wo (30 Deg)	None						116		
43	Structure Wo (60 Deg)	None						116		
44	Structure Wo (90 Deg)	None						116		
45	Structure Wo (120 D...	None						116		
46	Structure Wo (150 D...	None						116		
47	Structure Wo (180 D...	None						116		
48	Structure Wo (210 D...	None						116		
49	Structure Wo (240 D...	None						116		
50	Structure Wo (270 D...	None						116		
51	Structure Wo (300 D...	None						116		
52	Structure Wo (330 D...	None						116		
53	Structure Wi (0 Deg)	None						116		
54	Structure Wi (30 Deg)	None						116		
55	Structure Wi (60 Deg)	None						116		
56	Structure Wi (90 Deg)	None						116		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						116		
58	Structure Wi (150 De...	None						116		
59	Structure Wi (180 De...	None						116		
60	Structure Wi (210 De...	None						116		
61	Structure Wi (240 De...	None						116		
62	Structure Wi (270 De...	None						116		
63	Structure Wi (300 De...	None						116		
64	Structure Wi (330 De...	None						116		
65	Structure Wm (0 Deg)	None						116		
66	Structure Wm (30 De...	None						116		
67	Structure Wm (60 De...	None						116		
68	Structure Wm (90 De...	None						116		
69	Structure Wm (120 D...	None						116		
70	Structure Wm (150 D...	None						116		
71	Structure Wm (180 D...	None						116		
72	Structure Wm (210 D...	None						116		
73	Structure Wm (240 D...	None						116		
74	Structure Wm (270 D...	None						116		
75	Structure Wm (300 D...	None						116		
76	Structure Wm (330 D...	None						116		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	Sol...	PD...	SR...	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								
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										

Load Combinations (Continued)

	Description	Sol...	PD...	SR...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...	BLC	Fact...
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	Seismic M...		Y		1	1	39	1																
53	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866										
65			Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866										

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	75	0	49.226279	0	
2	N2	-75	0	49.226279	0	
3	N3	-0.	0	-22	0	
4	N5	-30.5	0	-39.75	0	
5	N8	65	0	49.226279	0	
6	N9	65	0	52.226279	0	
7	N12	0.25	0	49.226279	0	
8	N13	.25	0	52.226279	0	
9	N14	-66.5	0	49.226279	0	
10	N15	-66.5	0	52.226279	0	
11	N16	-66.5	-21	52.226279	0	
12	N17	-66.5	51	52.226279	0	
13	N20	.25	-18	52.226279	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
14	N21	.25	54	52.226279	0	
15	N22	65	-21	52.226279	0	
16	N23	65	51	52.226279	0	
17	N24	-0.	0	-39.75	0	
18	N27	-0.	0	-84.25	0	
19	CP	0	0	0	0	
20	N101	30.5	0	-39.75	0	
21	N102	-2	0	-39.75	0	
22	N103A	2	0	-39.75	0	
23	N104A	-30.5	0	-42.375	0	
24	N105	30.5	0	-42.375	0	
25	N131	29.5	0	-44.107051	0	
26	N135	6.859375	0	-83.086278	0	
27	N144	-29.5	0	-44.107051	0	
28	N148	-6.859375	0	-83.086278	0	
29	N86A	30.907295	0	-44.919553	0	
30	N86B	-30.907295	0	-44.919553	0	
31	N86C	-6.1875	0	-84.25	0	
32	N87A	6.1875	0	-84.25	0	
33	N86D	8.368638	0	-83.957652	0	
34	N86E	-8.368638	0	-83.957652	0	
35	N88A	-0.	0	-83.25	0	
36	N87C	2.810851	2	-83.25	0	
37	N86G	2.810851	0	-83.25	0	
38	N87B	-2.810851	2	-83.25	0	
39	N88C	-2.810851	0	-83.25	0	
40	N170B	-41	0	49.226279	0	
41	N171B	-41	0	52.226279	0	
42	N172	-41	-18	52.226279	0	
43	N173	-41	54	52.226279	0	
44	N56	-27.925588	2	-39.75	0	
45	N57	27.925588	2	-39.75	0	
46	N59	27.925588	0	-39.75	0	
47	N56A	-27.925588	0	-39.75	0	
48	N52	5.131208	0	-89.565045	0	
49	N53	80.131208	0	40.338766	0	
50	N55	-80.131208	0	40.338766	0	
51	N56B	-5.131208	0	-89.565045	0	
52	N56C	-19.052559	0	11	0	
53	N57A	-19.17451	0	46.288775	0	
54	N58	-34.42451	0	19.875	0	
55	N59A	-72.96264	0	42.125	0	
56	N61	-49.67451	0	-6.538775	0	
57	N62	-33.42451	0	21.607051	0	
58	N63	-35.42451	0	18.142949	0	
59	N64	-21.447826	0	47.601275	0	
60	N65	-51.947826	0	-5.226275	0	
61	N66	-52.947827	0	-3.494224	0	
62	N67	-75.384515	0	35.602746	0	
63	N68	-23.447826	0	47.601275	0	
64	N69	-68.52514	0	47.483532	0	
65	N70	-54.355121	0	-4.306726	0	
66	N71	-23.447826	0	49.226279	0	
67	N72	-69.86889	0	47.483532	0	
68	N73	-76.05639	0	36.766468	0	
69	N74	-76.893778	0	34.731373	0	
70	N75	-68.52514	0	49.226279	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
71	N76	-72.096615	0	41.625	0	
72	N77	-73.50204	2	39.190732	0	
73	N78	-73.50204	0	39.190732	0	
74	N79	-70.691189	2	44.059268	0	
75	N80	-70.691189	0	44.059268	0	
76	N81	-29.228357	0	16.875	0	
77	N82	-30.728357	0	14.276924	0	
78	N83	-30.728357	-6	14.276924	0	
79	N84	-30.728357	30	14.276924	0	
80	N85	-20.461716	2	44.059268	0	
81	N86	-48.387304	2	-4.309268	0	
82	N87	-48.387304	0	-4.309268	0	
83	N88	-20.461716	0	44.059268	0	
84	N89	19.052559	0	11	0	
85	N90	49.67451	0	-6.538775	0	
86	N91	34.42451	0	19.875	0	
87	N92	72.96264	0	42.125	0	
88	N94	19.17451	0	46.288775	0	
89	N95	35.42451	0	18.142949	0	
90	N96	33.42451	0	21.607051	0	
91	N97	51.947826	0	-5.226275	0	
92	N98	21.447826	0	47.601275	0	
93	N99	23.447827	0	47.601275	0	
94	N100	68.52514	0	47.483532	0	
95	N101A	52.947826	0	-3.494224	0	
96	N102A	75.384515	0	35.602746	0	
97	N103	23.447827	0	49.226279	0	
98	N104	54.355121	0	-4.306726	0	
99	N105A	76.05639	0	36.766468	0	
100	N106	69.86889	0	47.483532	0	
101	N107	68.52514	0	49.226279	0	
102	N108	76.893778	0	34.731373	0	
103	N109	72.096615	0	41.625	0	
104	N110	70.691189	2	44.059268	0	
105	N111	70.691189	0	44.059268	0	
106	N112	73.50204	2	39.190732	0	
107	N113	73.50204	0	39.190732	0	
108	N118	48.387304	2	-4.309268	0	
109	N119	20.461716	2	44.059268	0	
110	N120	20.461716	0	44.059268	0	
111	N121	48.387304	0	-4.309268	0	
112	N120A	10.131208	0	-80.904791	0	
113	N121A	12.729285	0	-82.404791	0	
114	N122	42.506208	0	-24.829646	0	
115	N123	45.104285	0	-26.329646	0	
116	N124	75.881208	0	32.97755	0	
117	N125	78.479285	0	31.47755	0	
118	N126	78.479285	-21	31.47755	0	
119	N127	78.479285	51	31.47755	0	
120	N128	45.104285	-18	-26.329646	0	
121	N129	45.104285	54	-26.329646	0	
122	N130	12.729285	-21	-82.404791	0	
123	N131A	12.729285	51	-82.404791	0	
124	N133	63.131208	0	10.893902	0	
125	N134	65.729285	0	9.393902	0	
126	N135A	65.729285	-18	9.393902	0	
127	N136	65.729285	54	9.393902	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
128	N137	-75.131208	0	31.678512	0	
129	N138	-77.729285	0	30.178512	0	
130	N139	-42.756208	0	-24.396633	0	
131	N140	-45.354285	0	-25.896633	0	
132	N141	-9.381208	0	-82.203829	0	
133	N142	-11.979285	0	-83.703829	0	
134	N143	-11.979285	-21	-83.703829	0	
135	N144A	-11.979285	51	-83.703829	0	
136	N145	-45.354285	-18	-25.896633	0	
137	N146	-45.354285	54	-25.896633	0	
138	N147	-77.729285	-21	30.178512	0	
139	N148A	-77.729285	51	30.178512	0	
140	N150	-22.131208	0	-60.120181	0	
141	N151	-24.729285	0	-61.620181	0	
142	N152	-24.729285	-18	-61.620181	0	
143	N153	-24.729285	54	-61.620181	0	
144	N144B	75	30	49.226279	0	
145	N145A	-75	30	49.226279	0	
146	N146A	65	30	49.226279	0	
147	N147A	65	30	52.226279	0	
148	N148B	0.25	30	49.226279	0	
149	N149	.25	30	52.226279	0	
150	N150A	-66.5	30	49.226279	0	
151	N151A	-66.5	30	52.226279	0	
152	N152A	-41	30	49.226279	0	
153	N153A	-41	30	52.226279	0	
154	N154	5.131208	30	-89.565045	0	
155	N155	80.131208	30	40.338766	0	
156	N156	-80.131208	30	40.338766	0	
157	N157	-5.131208	30	-89.565045	0	
158	N158	10.131208	30	-80.904791	0	
159	N159	12.729285	30	-82.404791	0	
160	N160	42.506208	30	-24.829646	0	
161	N161	45.104285	30	-26.329646	0	
162	N162	75.881208	30	32.97755	0	
163	N163	78.479285	30	31.47755	0	
164	N164	63.131208	30	10.893902	0	
165	N165	65.729285	30	9.393902	0	
166	N166	-75.131208	30	31.678512	0	
167	N167	-77.729285	30	30.178512	0	
168	N168	-42.756208	30	-24.396633	0	
169	N169	-45.354285	30	-25.896633	0	
170	N170	-9.381208	30	-82.203829	0	
171	N171	-11.979285	30	-83.703829	0	
172	N172A	-22.131208	30	-60.120181	0	
173	N173A	-24.729285	30	-61.620181	0	
174	N174	11.621875	30	-74.837386	0	
175	N175	-11.621875	30	-74.837386	0	
176	N176	13.131138	30	-75.70876	0	
177	N177	-13.131138	30	-75.70876	0	
178	N179	-70.622015	30	27.353854	0	
179	N180	-59.	30	47.483532	0	
180	N182	59.00014	30	47.483532	0	
181	N183	70.622015	30	27.353854	0	
182	N185	-72.131278	30	26.482481	0	
183	N186	-59.	30	49.226279	0	
184	N190	59.00014	30	49.226279	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
185	N191	72.131278	30	26.482481	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr....	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmember	HSS4X4X4	Beam	SquareTube	A500 Gr....	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL7/16x6	Column	RECT	A36 Gr.36	Typical	2.625	.042	7.875	.16
8	Equipment Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Support Rail	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
10	Corner Angle	L3X3X4	Column	Pipe	A36 Gr.36	Typical	1.44	1.23	1.23	.031
11	New Mount Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M21	N12	N13			RIGID	None	None	RIGID	Typical
6	M22	N14	N15			RIGID	None	None	RIGID	Typical
7	MP4A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
8	MP2A	N21	N20			New Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
11	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
12	M51B	N87C	N57			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
13	M52B	N87B	N56		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
14	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
15	M58	N102	N24			RIGID	None	None	RIGID	Typical
16	M59	N24	N103A			RIGID	None	None	RIGID	Typical
17	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M79	N131	N86A			RIGID	None	None	RIGID	Typical
20	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M83	N135	N86D			RIGID	None	None	RIGID	Typical
22	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
24	M88	N144	N86B			RIGID	None	None	RIGID	Typical
25	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
26	M92	N148	N86E			RIGID	None	None	RIGID	Typical
27	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
28	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
29	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
30	M121	N170B	N171B			RIGID	None	None	RIGID	Typical
31	MP3A	N173	N172			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
32	M38	N57	N59			RIGID	None	None	RIGID	Typical
33	M37	N56	N56A			RIGID	None	None	RIGID	Typical
34	M36	N52	N53			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
35	M37A	N55	N56B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
36	M38A	N56C	N59A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
37	M39	N61	N63			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
38	M40	N62	N57A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
39	M41	N72	N73			Corner Plate	Beam	BAR	A36 Gr.36	Typical
40	M42	N77	N86			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
41	M43A	N79	N85		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
42	M44	N79	N80			RIGID	None	None	RIGID	Typical
43	M45	N62	N58			RIGID	None	None	RIGID	Typical
44	M46A	N58	N63			RIGID	None	None	RIGID	Typical
45	M47	N61	N65			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M48	N65	N66			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
47	M49	N66	N70			RIGID	None	None	RIGID	Typical
48	M50A	N73	N67			Corner Plate	Beam	BAR	A36 Gr.36	Typical
49	M51C	N67	N74			RIGID	None	None	RIGID	Typical
50	M52A	N57A	N64			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
51	M53	N64	N68			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
52	M54	N68	N71			RIGID	None	None	RIGID	Typical
53	M55	N72	N69			Corner Plate	Beam	BAR	A36 Gr.36	Typical
54	M56	N69	N75			RIGID	None	None	RIGID	Typical
55	M57	N80	N76			RIGID	None	None	RIGID	Typical
56	M58A	N76	N78			RIGID	None	None	RIGID	Typical
57	M59A	N77	N78			RIGID	None	None	RIGID	Typical
58	M60	N84	N83			Equipment Pipe	Column	Pipe	A53 Gr.B	Typical
59	M61	N81	N82			RIGID	None	None	RIGID	Typical
60	M62	N86	N87			RIGID	None	None	RIGID	Typical
61	M63	N85	N88			RIGID	None	None	RIGID	Typical
62	M64	N89	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
63	M65	N94	N96			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
64	M66	N95	N90			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
65	M67	N105A	N106			Corner Plate	Beam	BAR	A36 Gr.36	Typical
66	M68	N110	N119			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
67	M69	N112	N118		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
68	M70	N112	N113			RIGID	None	None	RIGID	Typical
69	M71	N95	N91			RIGID	None	None	RIGID	Typical
70	M72	N91	N96			RIGID	None	None	RIGID	Typical
71	M73	N94	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
72	M74	N98	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
73	M75	N99	N103			RIGID	None	None	RIGID	Typical
74	M76A	N106	N100			Corner Plate	Beam	BAR	A36 Gr.36	Typical
75	M77A	N100	N107			RIGID	None	None	RIGID	Typical
76	M78	N90	N97			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
77	M79A	N97	N101A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
78	M80A	N101A	N104			RIGID	None	None	RIGID	Typical
79	M81	N105A	N102A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
80	M82	N102A	N108			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
81	M83A	N113	N109			RIGID	None	None	RIGID	Typical
82	M84A	N109	N111			RIGID	None	None	RIGID	Typical
83	M85A	N110	N111			RIGID	None	None	RIGID	Typical
84	M88A	N119	N120			RIGID	None	None	RIGID	Typical
85	M89	N118	N121			RIGID	None	None	RIGID	Typical
86	M90	N120A	N121A			RIGID	None	None	RIGID	Typical
87	M91A	N122	N123			RIGID	None	None	RIGID	Typical
88	M92A	N124	N125			RIGID	None	None	RIGID	Typical
89	MP4C	N127	N126			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	MP2C	N129	N128			New Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	MP1C	N131A	N130			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	M96	N133	N134			RIGID	None	None	RIGID	Typical
93	MP3C	N136	N135A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M98	N137	N138			RIGID	None	None	RIGID	Typical
95	M99	N139	N140			RIGID	None	None	RIGID	Typical
96	M100	N141	N142			RIGID	None	None	RIGID	Typical
97	MP4B	N144A	N143			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	MP2B	N146	N145			New Mount Pipe	Column	Pipe	A53 Gr.B	Typical
99	MP1B	N148A	N147			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M104	N150	N151			RIGID	None	None	RIGID	Typical
101	MP3B	N153	N152			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
102	M102	N144B	N145A			Support Rail	Column	Pipe	A53 Gr.B	Typical
103	M103	N146A	N147A			RIGID	None	None	RIGID	Typical
104	M104A	N148B	N149			RIGID	None	None	RIGID	Typical
105	M105	N150A	N151A			RIGID	None	None	RIGID	Typical
106	M106	N152A	N153A			RIGID	None	None	RIGID	Typical
107	M107	N154	N155			Support Rail	Column	Pipe	A53 Gr.B	Typical
108	M108	N156	N157			Support Rail	Column	Pipe	A53 Gr.B	Typical
109	M109	N158	N159			RIGID	None	None	RIGID	Typical
110	M110	N160	N161			RIGID	None	None	RIGID	Typical
111	M111	N162	N163			RIGID	None	None	RIGID	Typical
112	M112	N164	N165			RIGID	None	None	RIGID	Typical
113	M113	N166	N167			RIGID	None	None	RIGID	Typical
114	M114	N168	N169			RIGID	None	None	RIGID	Typical
115	M115	N170	N171			RIGID	None	None	RIGID	Typical
116	M116	N172A	N173A			RIGID	None	None	RIGID	Typical
117	M117	N174	N176			RIGID	None	None	RIGID	Typical
118	M118	N175	N177			RIGID	None	None	RIGID	Typical
119	M119	N175	N174		90	Corner Angle	Column	Pipe	A36 Gr.36	Typical
120	M120	N180	N179		90	Corner Angle	Column	Pipe	A36 Gr.36	Typical
121	M121A	N183	N182		90	Corner Angle	Column	Pipe	A36 Gr.36	Typical
122	M122	N179	N185			RIGID	None	None	RIGID	Typical
123	M123	N180	N186			RIGID	None	None	RIGID	Typical
124	M124	N182	N190			RIGID	None	None	RIGID	Typical
125	M125	N183	N191			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	150			Lbyy						Lateral
2	M4	Standoff Ho...	62.25			Lbyy						Lateral
3	M10	Platform Cr...	28.5			Lbyy						Lateral
4	MP4A	Mount Pipe	72			Lbyy						Lateral
5	MP2A	New Mount ...	72			Lbyy						Lateral
6	MP1A	Mount Pipe	72			Lbyy						Lateral
7	M43	Platform Cr...	28.5			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torqu...	Kyy	Kzz	Cb	Function
8	M46	Corner Plate	12.375			Lbyy						Lateral
9	M51B	Grating Sup...	50.229			Lbyy						Lateral
10	M52B	Grating Sup...	50.229			Lbyy						Lateral
11	M76	Cross Arm ...	2.625									Lateral
12	M77	Cross Arm ...	2									Lateral
13	M80	Corner Plate	1.344			Lbyy						Lateral
14	M84	Cross Arm ...	2.625									Lateral
15	M85	Cross Arm ...	2									Lateral
16	M91	Corner Plate	1.344			Lbyy						Lateral
17	MP3A	Mount Pipe	72			Lbyy						Lateral
18	M36	Face Horizo...	150			Lbyy						Lateral
19	M37A	Face Horizo...	150			Lbyy						Lateral
20	M38A	Standoff Ho...	62.25			Lbyy						Lateral
21	M39	Platform Cr...	28.5			Lbyy						Lateral
22	M40	Platform Cr...	28.5			Lbyy						Lateral
23	M41	Corner Plate	12.375			Lbyy						Lateral
24	M42	Grating Sup...	50.229			Lbyy						Lateral
25	M43A	Grating Sup...	50.229			Lbyy						Lateral
26	M47	Cross Arm ...	2.625									Lateral
27	M48	Cross Arm ...	2									Lateral
28	M50A	Corner Plate	1.344			Lbyy						Lateral
29	M52A	Cross Arm ...	2.625									Lateral
30	M53	Cross Arm ...	2									Lateral
31	M55	Corner Plate	1.344			Lbyy						Lateral
32	M60	Equipment ...	36									Lateral
33	M64	Standoff Ho...	62.25			Lbyy						Lateral
34	M65	Platform Cr...	28.5			Lbyy						Lateral
35	M66	Platform Cr...	28.5			Lbyy						Lateral
36	M67	Corner Plate	12.375			Lbyy						Lateral
37	M68	Grating Sup...	50.229			Lbyy						Lateral
38	M69	Grating Sup...	50.229			Lbyy						Lateral
39	M73	Cross Arm ...	2.625									Lateral
40	M74	Cross Arm ...	2									Lateral
41	M76A	Corner Plate	1.344			Lbyy						Lateral
42	M78	Cross Arm ...	2.625									Lateral
43	M79A	Cross Arm ...	2									Lateral
44	M81	Corner Plate	1.344			Lbyy						Lateral
45	MP4C	Mount Pipe	72			Lbyy						Lateral
46	MP2C	New Mount ...	72			Lbyy						Lateral
47	MP1C	Mount Pipe	72			Lbyy						Lateral
48	MP3C	Mount Pipe	72			Lbyy						Lateral
49	MP4B	Mount Pipe	72			Lbyy						Lateral
50	MP2B	New Mount ...	72			Lbyy						Lateral
51	MP1B	Mount Pipe	72			Lbyy						Lateral
52	MP3B	Mount Pipe	72			Lbyy						Lateral
53	M102	Support Rail	150			Lbyy						Lateral
54	M107	Support Rail	150			Lbyy						Lateral
55	M108	Support Rail	150			Lbyy						Lateral
56	M119	Corner Angle	23.244									Lateral
57	M120	Corner Angle	23.244									Lateral
58	M121A	Corner Angle	23.244									Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Y	-23	12

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
2	MP2A	My	-.011	12
3	MP2A	Mz	.015	12
4	MP2A	Y	-23	60
5	MP2A	My	-.011	60
6	MP2A	Mz	.015	60
7	MP2B	Y	-23	12
8	MP2B	My	-.001	12
9	MP2B	Mz	-.019	12
10	MP2B	Y	-23	60
11	MP2B	My	-.001	60
12	MP2B	Mz	-.019	60
13	MP2C	Y	-23	12
14	MP2C	My	.019	12
15	MP2C	Mz	.002	12
16	MP2C	Y	-23	60
17	MP2C	My	.019	60
18	MP2C	Mz	.002	60
19	MP2A	Y	-23	12
20	MP2A	My	-.011	12
21	MP2A	Mz	-.015	12
22	MP2A	Y	-23	60
23	MP2A	My	-.011	60
24	MP2A	Mz	-.015	60
25	MP2B	Y	-23	12
26	MP2B	My	.019	12
27	MP2B	Mz	.004	12
28	MP2B	Y	-23	60
29	MP2B	My	.019	60
30	MP2B	Mz	.004	60
31	MP2C	Y	-23	12
32	MP2C	My	-.008	12
33	MP2C	Mz	.018	12
34	MP2C	Y	-23	60
35	MP2C	My	-.008	60
36	MP2C	Mz	.018	60
37	MP3A	Y	-43.55	6
38	MP3A	My	-.022	6
39	MP3A	Mz	0	6
40	MP3A	Y	-43.55	30
41	MP3A	My	-.022	30
42	MP3A	Mz	0	30
43	MP3B	Y	-43.55	6
44	MP3B	My	.017	6
45	MP3B	Mz	-.014	6
46	MP3B	Y	-43.55	30
47	MP3B	My	.017	30
48	MP3B	Mz	-.014	30
49	MP3C	Y	-43.55	6
50	MP3C	My	.011	6
51	MP3C	Mz	.019	6
52	MP3C	Y	-43.55	30
53	MP3C	My	.011	30
54	MP3C	Mz	.019	30
55	M60	Y	-32	15
56	M60	My	0	15
57	M60	Mz	0	15
58	MP3A	Y	-84.4	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
59	MP3A	My	.042	36
60	MP3A	Mz	0	36
61	MP3B	Y	-84.4	36
62	MP3B	My	-.032	36
63	MP3B	Mz	.027	36
64	MP3C	Y	-84.4	36
65	MP3C	My	-.021	36
66	MP3C	Mz	-.037	36
67	MP2A	Y	-70.3	36
68	MP2A	My	.035	36
69	MP2A	Mz	0	36
70	MP2B	Y	-70.3	36
71	MP2B	My	-.027	36
72	MP2B	Mz	.023	36
73	MP2C	Y	-70.3	36
74	MP2C	My	-.018	36
75	MP2C	Mz	-.03	36
76	MP1B	Y	-10.5	3
77	MP1B	My	.004	3
78	MP1B	Mz	-.003	3
79	MP1B	Y	-10.5	69
80	MP1B	My	.004	69
81	MP1B	Mz	-.003	69
82	MP1C	Y	-10.5	3
83	MP1C	My	.003	3
84	MP1C	Mz	.005	3
85	MP1C	Y	-10.5	69
86	MP1C	My	.003	69
87	MP1C	Mz	.005	69
88	MP4B	Y	-10.5	3
89	MP4B	My	.004	3
90	MP4B	Mz	-.003	3
91	MP4B	Y	-10.5	69
92	MP4B	My	.004	69
93	MP4B	Mz	-.003	69
94	MP4C	Y	-10.5	3
95	MP4C	My	.003	3
96	MP4C	Mz	.005	3
97	MP4C	Y	-10.5	69
98	MP4C	My	.003	69
99	MP4C	Mz	.005	69
100	MP1A	Y	-6	3
101	MP1A	My	-.003	3
102	MP1A	Mz	0	3
103	MP1A	Y	-6	45
104	MP1A	My	-.003	45
105	MP1A	Mz	0	45
106	MP4A	Y	-6	3
107	MP4A	My	-.003	3
108	MP4A	Mz	0	3
109	MP4A	Y	-6	45
110	MP4A	My	-.003	45
111	MP4A	Mz	0	45

Member Point Loads (BLC 2 : Antenna Di)

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Y	-81.954	12
2	MP2A	My	-.041	12
3	MP2A	Mz	.055	12
4	MP2A	Y	-81.954	60
5	MP2A	My	-.041	60
6	MP2A	Mz	.055	60
7	MP2B	Y	-81.954	12
8	MP2B	My	-.004	12
9	MP2B	Mz	-.068	12
10	MP2B	Y	-81.954	60
11	MP2B	My	-.004	60
12	MP2B	Mz	-.068	60
13	MP2C	Y	-81.954	12
14	MP2C	My	.068	12
15	MP2C	Mz	.008	12
16	MP2C	Y	-81.954	60
17	MP2C	My	.068	60
18	MP2C	Mz	.008	60
19	MP2A	Y	-81.954	12
20	MP2A	My	-.041	12
21	MP2A	Mz	-.055	12
22	MP2A	Y	-81.954	60
23	MP2A	My	-.041	60
24	MP2A	Mz	-.055	60
25	MP2B	Y	-81.954	12
26	MP2B	My	.067	12
27	MP2B	Mz	.016	12
28	MP2B	Y	-81.954	60
29	MP2B	My	.067	60
30	MP2B	Mz	.016	60
31	MP2C	Y	-81.954	12
32	MP2C	My	-.027	12
33	MP2C	Mz	.063	12
34	MP2C	Y	-81.954	60
35	MP2C	My	-.027	60
36	MP2C	Mz	.063	60
37	MP3A	Y	-35.386	6
38	MP3A	My	-.018	6
39	MP3A	Mz	0	6
40	MP3A	Y	-35.386	30
41	MP3A	My	-.018	30
42	MP3A	Mz	0	30
43	MP3B	Y	-35.386	6
44	MP3B	My	.014	6
45	MP3B	Mz	-.011	6
46	MP3B	Y	-35.386	30
47	MP3B	My	.014	30
48	MP3B	Mz	-.011	30
49	MP3C	Y	-35.386	6
50	MP3C	My	.009	6
51	MP3C	Mz	.015	6
52	MP3C	Y	-35.386	30
53	MP3C	My	.009	30
54	MP3C	Mz	.015	30
55	M60	Y	-75.469	15
56	M60	My	0	15
57	M60	Mz	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	Y	-44.609	36
59	MP3A	My	.022	36
60	MP3A	Mz	0	36
61	MP3B	Y	-44.609	36
62	MP3B	My	-.017	36
63	MP3B	Mz	.014	36
64	MP3C	Y	-44.609	36
65	MP3C	My	-.011	36
66	MP3C	Mz	-.019	36
67	MP2A	Y	-40.116	36
68	MP2A	My	.02	36
69	MP2A	Mz	0	36
70	MP2B	Y	-40.116	36
71	MP2B	My	-.015	36
72	MP2B	Mz	.013	36
73	MP2C	Y	-40.116	36
74	MP2C	My	-.01	36
75	MP2C	Mz	-.017	36
76	MP1B	Y	-58.857	3
77	MP1B	My	.023	3
78	MP1B	Mz	-.019	3
79	MP1B	Y	-58.857	69
80	MP1B	My	.023	69
81	MP1B	Mz	-.019	69
82	MP1C	Y	-58.857	3
83	MP1C	My	.015	3
84	MP1C	Mz	.025	3
85	MP1C	Y	-58.857	69
86	MP1C	My	.015	69
87	MP1C	Mz	.025	69
88	MP4B	Y	-58.857	3
89	MP4B	My	.023	3
90	MP4B	Mz	-.019	3
91	MP4B	Y	-58.857	69
92	MP4B	My	.023	69
93	MP4B	Mz	-.019	69
94	MP4C	Y	-58.857	3
95	MP4C	My	.015	3
96	MP4C	Mz	.025	3
97	MP4C	Y	-58.857	69
98	MP4C	My	.015	69
99	MP4C	Mz	.025	69
100	MP1A	Y	-40.038	3
101	MP1A	My	-.02	3
102	MP1A	Mz	0	3
103	MP1A	Y	-40.038	45
104	MP1A	My	-.02	45
105	MP1A	Mz	0	45
106	MP4A	Y	-40.038	3
107	MP4A	My	-.02	3
108	MP4A	Mz	0	3
109	MP4A	Y	-40.038	45
110	MP4A	My	-.02	45
111	MP4A	Mz	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	12
2	MP2A	Z	-205.791	12
3	MP2A	Mx	-.137	12
4	MP2A	X	0	60
5	MP2A	Z	-205.791	60
6	MP2A	Mx	-.137	60
7	MP2B	X	0	12
8	MP2B	Z	-183.978	12
9	MP2B	Mx	.153	12
10	MP2B	X	0	60
11	MP2B	Z	-183.978	60
12	MP2B	Mx	.153	60
13	MP2C	X	0	12
14	MP2C	Z	-166.196	12
15	MP2C	Mx	-.017	12
16	MP2C	X	0	60
17	MP2C	Z	-166.196	60
18	MP2C	Mx	-.017	60
19	MP2A	X	0	12
20	MP2A	Z	-205.791	12
21	MP2A	Mx	.137	12
22	MP2A	X	0	60
23	MP2A	Z	-205.791	60
24	MP2A	Mx	.137	60
25	MP2B	X	0	12
26	MP2B	Z	-183.978	12
27	MP2B	Mx	-.035	12
28	MP2B	X	0	60
29	MP2B	Z	-183.978	60
30	MP2B	Mx	-.035	60
31	MP2C	X	0	12
32	MP2C	Z	-166.196	12
33	MP2C	Mx	-.127	12
34	MP2C	X	0	60
35	MP2C	Z	-166.196	60
36	MP2C	Mx	-.127	60
37	MP3A	X	0	6
38	MP3A	Z	-97.996	6
39	MP3A	Mx	0	6
40	MP3A	X	0	30
41	MP3A	Z	-97.996	30
42	MP3A	Mx	0	30
43	MP3B	X	0	6
44	MP3B	Z	-73.358	6
45	MP3B	Mx	.024	6
46	MP3B	X	0	30
47	MP3B	Z	-73.358	30
48	MP3B	Mx	.024	30
49	MP3C	X	0	6
50	MP3C	Z	-53.273	6
51	MP3C	Mx	-.023	6
52	MP3C	X	0	30
53	MP3C	Z	-53.273	30
54	MP3C	Mx	-.023	30
55	M60	X	0	15
56	M60	Z	-144.687	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	0	36
59	MP3A	Z	-77.98	36
60	MP3A	Mx	0	36
61	MP3B	X	0	36
62	MP3B	Z	-67.297	36
63	MP3B	Mx	-.022	36
64	MP3C	X	0	36
65	MP3C	Z	-58.589	36
66	MP3C	Mx	.025	36
67	MP2A	X	0	36
68	MP2A	Z	-77.98	36
69	MP2A	Mx	0	36
70	MP2B	X	0	36
71	MP2B	Z	-63.205	36
72	MP2B	Mx	-.02	36
73	MP2C	X	0	36
74	MP2C	Z	-51.161	36
75	MP2C	Mx	.022	36
76	MP1B	X	0	3
77	MP1B	Z	-139.312	3
78	MP1B	Mx	.045	3
79	MP1B	X	0	69
80	MP1B	Z	-139.312	69
81	MP1B	Mx	.045	69
82	MP1C	X	0	3
83	MP1C	Z	-133.05	3
84	MP1C	Mx	-.058	3
85	MP1C	X	0	69
86	MP1C	Z	-133.05	69
87	MP1C	Mx	-.058	69
88	MP4B	X	0	3
89	MP4B	Z	-139.312	3
90	MP4B	Mx	.045	3
91	MP4B	X	0	69
92	MP4B	Z	-139.312	69
93	MP4B	Mx	.045	69
94	MP4C	X	0	3
95	MP4C	Z	-133.05	3
96	MP4C	Mx	-.058	3
97	MP4C	X	0	69
98	MP4C	Z	-133.05	69
99	MP4C	Mx	-.058	69
100	MP1A	X	0	3
101	MP1A	Z	-54.419	3
102	MP1A	Mx	0	3
103	MP1A	X	0	45
104	MP1A	Z	-54.419	45
105	MP1A	Mx	0	45
106	MP4A	X	0	3
107	MP4A	Z	-54.419	3
108	MP4A	Mx	0	3
109	MP4A	X	0	45
110	MP4A	Z	-54.419	45
111	MP4A	Mx	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	96.297	12
2	MP2A	Z	-166.791	12
3	MP2A	Mx	-.159	12
4	MP2A	X	96.297	60
5	MP2A	Z	-166.791	60
6	MP2A	Mx	-.159	60
7	MP2B	X	79.587	12
8	MP2B	Z	-137.848	12
9	MP2B	Mx	.111	12
10	MP2B	X	79.587	60
11	MP2B	Z	-137.848	60
12	MP2B	Mx	.111	60
13	MP2C	X	96.297	12
14	MP2C	Z	-166.791	12
15	MP2C	Mx	.063	12
16	MP2C	X	96.297	60
17	MP2C	Z	-166.791	60
18	MP2C	Mx	.063	60
19	MP2A	X	96.297	12
20	MP2A	Z	-166.791	12
21	MP2A	Mx	.063	12
22	MP2A	X	96.297	60
23	MP2A	Z	-166.791	60
24	MP2A	Mx	.063	60
25	MP2B	X	79.587	12
26	MP2B	Z	-137.848	12
27	MP2B	Mx	.038	12
28	MP2B	X	79.587	60
29	MP2B	Z	-137.848	60
30	MP2B	Mx	.038	60
31	MP2C	X	96.297	12
32	MP2C	Z	-166.791	12
33	MP2C	Mx	-.159	12
34	MP2C	X	96.297	60
35	MP2C	Z	-166.791	60
36	MP2C	Mx	-.159	60
37	MP3A	X	41.544	6
38	MP3A	Z	-71.957	6
39	MP3A	Mx	-.021	6
40	MP3A	X	41.544	30
41	MP3A	Z	-71.957	30
42	MP3A	Mx	-.021	30
43	MP3B	X	22.67	6
44	MP3B	Z	-39.266	6
45	MP3B	Mx	.021	6
46	MP3B	X	22.67	30
47	MP3B	Z	-39.266	30
48	MP3B	Mx	.021	30
49	MP3C	X	41.544	6
50	MP3C	Z	-71.957	6
51	MP3C	Mx	-.021	6
52	MP3C	X	41.544	30
53	MP3C	Z	-71.957	30
54	MP3C	Mx	-.021	30
55	M60	X	58.985	15
56	M60	Z	-102.166	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	35.758	36
59	MP3A	Z	-61.935	36
60	MP3A	Mx	.018	36
61	MP3B	X	27.575	36
62	MP3B	Z	-47.761	36
63	MP3B	Mx	-.026	36
64	MP3C	X	35.758	36
65	MP3C	Z	-61.935	36
66	MP3C	Mx	.018	36
67	MP2A	X	34.52	36
68	MP2A	Z	-59.791	36
69	MP2A	Mx	.017	36
70	MP2B	X	23.202	36
71	MP2B	Z	-40.188	36
72	MP2B	Mx	-.022	36
73	MP2C	X	34.52	36
74	MP2C	Z	-59.791	36
75	MP2C	Mx	.017	36
76	MP1B	X	65.289	3
77	MP1B	Z	-113.083	3
78	MP1B	Mx	.061	3
79	MP1B	X	65.289	69
80	MP1B	Z	-113.083	69
81	MP1B	Mx	.061	69
82	MP1C	X	71.173	3
83	MP1C	Z	-123.275	3
84	MP1C	Mx	-.036	3
85	MP1C	X	71.173	69
86	MP1C	Z	-123.275	69
87	MP1C	Mx	-.036	69
88	MP4B	X	65.289	3
89	MP4B	Z	-113.083	3
90	MP4B	Mx	.061	3
91	MP4B	X	65.289	69
92	MP4B	Z	-113.083	69
93	MP4B	Mx	.061	69
94	MP4C	X	71.173	3
95	MP4C	Z	-123.275	3
96	MP4C	Mx	-.036	3
97	MP4C	X	71.173	69
98	MP4C	Z	-123.275	69
99	MP4C	Mx	-.036	69
100	MP1A	X	34.478	3
101	MP1A	Z	-59.718	3
102	MP1A	Mx	-.017	3
103	MP1A	X	34.478	45
104	MP1A	Z	-59.718	45
105	MP1A	Mx	-.017	45
106	MP4A	X	34.478	3
107	MP4A	Z	-59.718	3
108	MP4A	Mx	-.017	3
109	MP4A	X	34.478	45
110	MP4A	Z	-59.718	45
111	MP4A	Mx	-.017	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	143.93	12
2	MP2A	Z	-83.098	12
3	MP2A	Mx	-.127	12
4	MP2A	X	143.93	60
5	MP2A	Z	-83.098	60
6	MP2A	Mx	-.127	60
7	MP2B	X	133.879	12
8	MP2B	Z	-77.295	12
9	MP2B	Mx	.058	12
10	MP2B	X	133.879	60
11	MP2B	Z	-77.295	60
12	MP2B	Mx	.058	60
13	MP2C	X	178.221	12
14	MP2C	Z	-102.896	12
15	MP2C	Mx	.137	12
16	MP2C	X	178.221	60
17	MP2C	Z	-102.896	60
18	MP2C	Mx	.137	60
19	MP2A	X	143.93	12
20	MP2A	Z	-83.098	12
21	MP2A	Mx	-.017	12
22	MP2A	X	143.93	60
23	MP2A	Z	-83.098	60
24	MP2A	Mx	-.017	60
25	MP2B	X	133.879	12
26	MP2B	Z	-77.295	12
27	MP2B	Mx	.094	12
28	MP2B	X	133.879	60
29	MP2B	Z	-77.295	60
30	MP2B	Mx	.094	60
31	MP2C	X	178.221	12
32	MP2C	Z	-102.896	12
33	MP2C	Mx	-.137	12
34	MP2C	X	178.221	60
35	MP2C	Z	-102.896	60
36	MP2C	Mx	-.137	60
37	MP3A	X	46.136	6
38	MP3A	Z	-26.636	6
39	MP3A	Mx	-.023	6
40	MP3A	X	46.136	30
41	MP3A	Z	-26.636	30
42	MP3A	Mx	-.023	30
43	MP3B	X	34.782	6
44	MP3B	Z	-20.082	6
45	MP3B	Mx	.02	6
46	MP3B	X	34.782	30
47	MP3B	Z	-20.082	30
48	MP3B	Mx	.02	30
49	MP3C	X	84.867	6
50	MP3C	Z	-48.998	6
51	MP3C	Mx	0	6
52	MP3C	X	84.867	30
53	MP3C	Z	-48.998	30
54	MP3C	Mx	0	30
55	M60	X	90.598	15
56	M60	Z	-52.306	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	50.74	36
59	MP3A	Z	-29.295	36
60	MP3A	Mx	.025	36
61	MP3B	X	45.817	36
62	MP3B	Z	-26.453	36
63	MP3B	Mx	-.026	36
64	MP3C	X	67.532	36
65	MP3C	Z	-38.99	36
66	MP3C	Mx	0	36
67	MP2A	X	44.307	36
68	MP2A	Z	-25.581	36
69	MP2A	Mx	.022	36
70	MP2B	X	37.499	36
71	MP2B	Z	-21.65	36
72	MP2B	Mx	-.021	36
73	MP2C	X	67.532	36
74	MP2C	Z	-38.99	36
75	MP2C	Mx	0	36
76	MP1B	X	111.685	3
77	MP1B	Z	-64.482	3
78	MP1B	Mx	.064	3
79	MP1B	X	111.685	69
80	MP1B	Z	-64.482	69
81	MP1B	Mx	.064	69
82	MP1C	X	127.3	3
83	MP1C	Z	-73.497	3
84	MP1C	Mx	0	3
85	MP1C	X	127.3	69
86	MP1C	Z	-73.497	69
87	MP1C	Mx	0	69
88	MP4B	X	111.685	3
89	MP4B	Z	-64.482	3
90	MP4B	Mx	.064	3
91	MP4B	X	111.685	69
92	MP4B	Z	-64.482	69
93	MP4B	Mx	.064	69
94	MP4C	X	127.3	3
95	MP4C	Z	-73.497	3
96	MP4C	Mx	0	3
97	MP4C	X	127.3	69
98	MP4C	Z	-73.497	69
99	MP4C	Mx	0	69
100	MP1A	X	84.897	3
101	MP1A	Z	-49.015	3
102	MP1A	Mx	-.042	3
103	MP1A	X	84.897	45
104	MP1A	Z	-49.015	45
105	MP1A	Mx	-.042	45
106	MP4A	X	84.897	3
107	MP4A	Z	-49.015	3
108	MP4A	Mx	-.042	3
109	MP4A	X	84.897	45
110	MP4A	Z	-49.015	45
111	MP4A	Mx	-.042	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	152.998	12
2	MP2A	Z	0	12
3	MP2A	Mx	-.076	12
4	MP2A	X	152.998	60
5	MP2A	Z	0	60
6	MP2A	Mx	-.076	60
7	MP2B	X	174.811	12
8	MP2B	Z	0	12
9	MP2B	Mx	-.008	12
10	MP2B	X	174.811	60
11	MP2B	Z	0	60
12	MP2B	Mx	-.008	60
13	MP2C	X	192.593	12
14	MP2C	Z	0	12
15	MP2C	Mx	.159	12
16	MP2C	X	192.593	60
17	MP2C	Z	0	60
18	MP2C	Mx	.159	60
19	MP2A	X	152.998	12
20	MP2A	Z	0	12
21	MP2A	Mx	-.076	12
22	MP2A	X	152.998	60
23	MP2A	Z	0	60
24	MP2A	Mx	-.076	60
25	MP2B	X	174.811	12
26	MP2B	Z	0	12
27	MP2B	Mx	.142	12
28	MP2B	X	174.811	60
29	MP2B	Z	0	60
30	MP2B	Mx	.142	60
31	MP2C	X	192.593	12
32	MP2C	Z	0	12
33	MP2C	Mx	-.063	12
34	MP2C	X	192.593	60
35	MP2C	Z	0	60
36	MP2C	Mx	-.063	60
37	MP3A	X	38.365	6
38	MP3A	Z	0	6
39	MP3A	Mx	-.019	6
40	MP3A	X	38.365	30
41	MP3A	Z	0	30
42	MP3A	Mx	-.019	30
43	MP3B	X	63.003	6
44	MP3B	Z	0	6
45	MP3B	Mx	.024	6
46	MP3B	X	63.003	30
47	MP3B	Z	0	30
48	MP3B	Mx	.024	30
49	MP3C	X	83.088	6
50	MP3C	Z	0	6
51	MP3C	Mx	.021	6
52	MP3C	X	83.088	30
53	MP3C	Z	0	30
54	MP3C	Mx	.021	30
55	M60	X	117.971	15
56	M60	Z	0	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	52.126	36
59	MP3A	Z	0	36
60	MP3A	Mx	.026	36
61	MP3B	X	62.808	36
62	MP3B	Z	0	36
63	MP3B	Mx	-.024	36
64	MP3C	X	71.516	36
65	MP3C	Z	0	36
66	MP3C	Mx	-.018	36
67	MP2A	X	42.222	36
68	MP2A	Z	0	36
69	MP2A	Mx	.021	36
70	MP2B	X	56.996	36
71	MP2B	Z	0	36
72	MP2B	Mx	-.022	36
73	MP2C	X	69.04	36
74	MP2C	Z	0	36
75	MP2C	Mx	-.017	36
76	MP1B	X	136.084	3
77	MP1B	Z	0	3
78	MP1B	Mx	.052	3
79	MP1B	X	136.084	69
80	MP1B	Z	0	69
81	MP1B	Mx	.052	69
82	MP1C	X	142.346	3
83	MP1C	Z	0	3
84	MP1C	Mx	.036	3
85	MP1C	X	142.346	69
86	MP1C	Z	0	69
87	MP1C	Mx	.036	69
88	MP4B	X	136.084	3
89	MP4B	Z	0	3
90	MP4B	Mx	.052	3
91	MP4B	X	136.084	69
92	MP4B	Z	0	69
93	MP4B	Mx	.052	69
94	MP4C	X	142.346	3
95	MP4C	Z	0	3
96	MP4C	Mx	.036	3
97	MP4C	X	142.346	69
98	MP4C	Z	0	69
99	MP4C	Mx	.036	69
100	MP1A	X	112.567	3
101	MP1A	Z	0	3
102	MP1A	Mx	-.056	3
103	MP1A	X	112.567	45
104	MP1A	Z	0	45
105	MP1A	Mx	-.056	45
106	MP4A	X	112.567	3
107	MP4A	Z	0	3
108	MP4A	Mx	-.056	3
109	MP4A	X	112.567	45
110	MP4A	Z	0	45
111	MP4A	Mx	-.056	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	143.93	12
2	MP2A	Z	83.098	12
3	MP2A	Mx	-.017	12
4	MP2A	X	143.93	60
5	MP2A	Z	83.098	60
6	MP2A	Mx	-.017	60
7	MP2B	X	172.872	12
8	MP2B	Z	99.808	12
9	MP2B	Mx	-.091	12
10	MP2B	X	172.872	60
11	MP2B	Z	99.808	60
12	MP2B	Mx	-.091	60
13	MP2C	X	143.93	12
14	MP2C	Z	83.098	12
15	MP2C	Mx	.127	12
16	MP2C	X	143.93	60
17	MP2C	Z	83.098	60
18	MP2C	Mx	.127	60
19	MP2A	X	143.93	12
20	MP2A	Z	83.098	12
21	MP2A	Mx	-.127	12
22	MP2A	X	143.93	60
23	MP2A	Z	83.098	60
24	MP2A	Mx	-.127	60
25	MP2B	X	172.872	12
26	MP2B	Z	99.808	12
27	MP2B	Mx	.159	12
28	MP2B	X	172.872	60
29	MP2B	Z	99.808	60
30	MP2B	Mx	.159	60
31	MP2C	X	143.93	12
32	MP2C	Z	83.098	12
33	MP2C	Mx	.017	12
34	MP2C	X	143.93	60
35	MP2C	Z	83.098	60
36	MP2C	Mx	.017	60
37	MP3A	X	46.136	6
38	MP3A	Z	26.636	6
39	MP3A	Mx	-.023	6
40	MP3A	X	46.136	30
41	MP3A	Z	26.636	30
42	MP3A	Mx	-.023	30
43	MP3B	X	78.826	6
44	MP3B	Z	45.51	6
45	MP3B	Mx	.016	6
46	MP3B	X	78.826	30
47	MP3B	Z	45.51	30
48	MP3B	Mx	.016	30
49	MP3C	X	46.136	6
50	MP3C	Z	26.636	6
51	MP3C	Mx	.023	6
52	MP3C	X	46.136	30
53	MP3C	Z	26.636	30
54	MP3C	Mx	.023	30
55	M60	X	125.302	15
56	M60	Z	72.343	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	50.74	36
59	MP3A	Z	29.295	36
60	MP3A	Mx	.025	36
61	MP3B	X	64.913	36
62	MP3B	Z	37.478	36
63	MP3B	Mx	-.013	36
64	MP3C	X	50.74	36
65	MP3C	Z	29.295	36
66	MP3C	Mx	-.025	36
67	MP2A	X	44.307	36
68	MP2A	Z	25.581	36
69	MP2A	Mx	.022	36
70	MP2B	X	63.91	36
71	MP2B	Z	36.898	36
72	MP2B	Mx	-.013	36
73	MP2C	X	44.307	36
74	MP2C	Z	25.581	36
75	MP2C	Mx	-.022	36
76	MP1B	X	125.417	3
77	MP1B	Z	72.41	3
78	MP1B	Mx	.025	3
79	MP1B	X	125.417	69
80	MP1B	Z	72.41	69
81	MP1B	Mx	.025	69
82	MP1C	X	115.225	3
83	MP1C	Z	66.525	3
84	MP1C	Mx	.058	3
85	MP1C	X	115.225	69
86	MP1C	Z	66.525	69
87	MP1C	Mx	.058	69
88	MP4B	X	125.417	3
89	MP4B	Z	72.41	3
90	MP4B	Mx	.025	3
91	MP4B	X	125.417	69
92	MP4B	Z	72.41	69
93	MP4B	Mx	.025	69
94	MP4C	X	115.225	3
95	MP4C	Z	66.525	3
96	MP4C	Mx	.058	3
97	MP4C	X	115.225	69
98	MP4C	Z	66.525	69
99	MP4C	Mx	.058	69
100	MP1A	X	84.897	3
101	MP1A	Z	49.015	3
102	MP1A	Mx	-.042	3
103	MP1A	X	84.897	45
104	MP1A	Z	49.015	45
105	MP1A	Mx	-.042	45
106	MP4A	X	84.897	3
107	MP4A	Z	49.015	3
108	MP4A	Mx	-.042	3
109	MP4A	X	84.897	45
110	MP4A	Z	49.015	45
111	MP4A	Mx	-.042	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	96.297	12
2	MP2A	Z	166.791	12
3	MP2A	Mx	.063	12
4	MP2A	X	96.297	60
5	MP2A	Z	166.791	60
6	MP2A	Mx	.063	60
7	MP2B	X	102.1	12
8	MP2B	Z	176.842	12
9	MP2B	Mx	-.152	12
10	MP2B	X	102.1	60
11	MP2B	Z	176.842	60
12	MP2B	Mx	-.152	60
13	MP2C	X	76.499	12
14	MP2C	Z	132.5	12
15	MP2C	Mx	.076	12
16	MP2C	X	76.499	60
17	MP2C	Z	132.5	60
18	MP2C	Mx	.076	60
19	MP2A	X	96.297	12
20	MP2A	Z	166.791	12
21	MP2A	Mx	-.159	12
22	MP2A	X	96.297	60
23	MP2A	Z	166.791	60
24	MP2A	Mx	-.159	60
25	MP2B	X	102.1	12
26	MP2B	Z	176.842	12
27	MP2B	Mx	.116	12
28	MP2B	X	102.1	60
29	MP2B	Z	176.842	60
30	MP2B	Mx	.116	60
31	MP2C	X	76.499	12
32	MP2C	Z	132.5	12
33	MP2C	Mx	.076	12
34	MP2C	X	76.499	60
35	MP2C	Z	132.5	60
36	MP2C	Mx	.076	60
37	MP3A	X	41.544	6
38	MP3A	Z	71.957	6
39	MP3A	Mx	-.021	6
40	MP3A	X	41.544	30
41	MP3A	Z	71.957	30
42	MP3A	Mx	-.021	30
43	MP3B	X	48.099	6
44	MP3B	Z	83.31	6
45	MP3B	Mx	-.008	6
46	MP3B	X	48.099	30
47	MP3B	Z	83.31	30
48	MP3B	Mx	-.008	30
49	MP3C	X	19.183	6
50	MP3C	Z	33.225	6
51	MP3C	Mx	.019	6
52	MP3C	X	19.183	30
53	MP3C	Z	33.225	30
54	MP3C	Mx	.019	30
55	M60	X	79.022	15
56	M60	Z	136.871	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	35.758	36
59	MP3A	Z	61.935	36
60	MP3A	Mx	.018	36
61	MP3B	X	38.6	36
62	MP3B	Z	66.857	36
63	MP3B	Mx	.007	36
64	MP3C	X	26.063	36
65	MP3C	Z	45.142	36
66	MP3C	Mx	-.026	36
67	MP2A	X	34.52	36
68	MP2A	Z	59.791	36
69	MP2A	Mx	.017	36
70	MP2B	X	38.451	36
71	MP2B	Z	66.599	36
72	MP2B	Mx	.007	36
73	MP2C	X	21.111	36
74	MP2C	Z	36.565	36
75	MP2C	Mx	-.021	36
76	MP1B	X	73.217	3
77	MP1B	Z	126.815	3
78	MP1B	Mx	-.013	3
79	MP1B	X	73.217	69
80	MP1B	Z	126.815	69
81	MP1B	Mx	-.013	69
82	MP1C	X	64.201	3
83	MP1C	Z	111.2	3
84	MP1C	Mx	.064	3
85	MP1C	X	64.201	69
86	MP1C	Z	111.2	69
87	MP1C	Mx	.064	69
88	MP4B	X	73.217	3
89	MP4B	Z	126.815	3
90	MP4B	Mx	-.013	3
91	MP4B	X	73.217	69
92	MP4B	Z	126.815	69
93	MP4B	Mx	-.013	69
94	MP4C	X	64.201	3
95	MP4C	Z	111.2	3
96	MP4C	Mx	.064	3
97	MP4C	X	64.201	69
98	MP4C	Z	111.2	69
99	MP4C	Mx	.064	69
100	MP1A	X	34.478	3
101	MP1A	Z	59.718	3
102	MP1A	Mx	-.017	3
103	MP1A	X	34.478	45
104	MP1A	Z	59.718	45
105	MP1A	Mx	-.017	45
106	MP4A	X	34.478	3
107	MP4A	Z	59.718	3
108	MP4A	Mx	-.017	3
109	MP4A	X	34.478	45
110	MP4A	Z	59.718	45
111	MP4A	Mx	-.017	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	12
2	MP2A	Z	205.791	12
3	MP2A	Mx	.137	12
4	MP2A	X	0	60
5	MP2A	Z	205.791	60
6	MP2A	Mx	.137	60
7	MP2B	X	0	12
8	MP2B	Z	183.978	12
9	MP2B	Mx	-.153	12
10	MP2B	X	0	60
11	MP2B	Z	183.978	60
12	MP2B	Mx	-.153	60
13	MP2C	X	0	12
14	MP2C	Z	166.196	12
15	MP2C	Mx	.017	12
16	MP2C	X	0	60
17	MP2C	Z	166.196	60
18	MP2C	Mx	.017	60
19	MP2A	X	0	12
20	MP2A	Z	205.791	12
21	MP2A	Mx	-.137	12
22	MP2A	X	0	60
23	MP2A	Z	205.791	60
24	MP2A	Mx	-.137	60
25	MP2B	X	0	12
26	MP2B	Z	183.978	12
27	MP2B	Mx	.035	12
28	MP2B	X	0	60
29	MP2B	Z	183.978	60
30	MP2B	Mx	.035	60
31	MP2C	X	0	12
32	MP2C	Z	166.196	12
33	MP2C	Mx	.127	12
34	MP2C	X	0	60
35	MP2C	Z	166.196	60
36	MP2C	Mx	.127	60
37	MP3A	X	0	6
38	MP3A	Z	97.996	6
39	MP3A	Mx	0	6
40	MP3A	X	0	30
41	MP3A	Z	97.996	30
42	MP3A	Mx	0	30
43	MP3B	X	0	6
44	MP3B	Z	73.358	6
45	MP3B	Mx	-.024	6
46	MP3B	X	0	30
47	MP3B	Z	73.358	30
48	MP3B	Mx	-.024	30
49	MP3C	X	0	6
50	MP3C	Z	53.273	6
51	MP3C	Mx	.023	6
52	MP3C	X	0	30
53	MP3C	Z	53.273	30
54	MP3C	Mx	.023	30
55	M60	X	0	15
56	M60	Z	144.687	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	0	36
59	MP3A	Z	77.98	36
60	MP3A	Mx	0	36
61	MP3B	X	0	36
62	MP3B	Z	67.297	36
63	MP3B	Mx	.022	36
64	MP3C	X	0	36
65	MP3C	Z	58.589	36
66	MP3C	Mx	-.025	36
67	MP2A	X	0	36
68	MP2A	Z	77.98	36
69	MP2A	Mx	0	36
70	MP2B	X	0	36
71	MP2B	Z	63.205	36
72	MP2B	Mx	.02	36
73	MP2C	X	0	36
74	MP2C	Z	51.161	36
75	MP2C	Mx	-.022	36
76	MP1B	X	0	3
77	MP1B	Z	139.312	3
78	MP1B	Mx	-.045	3
79	MP1B	X	0	69
80	MP1B	Z	139.312	69
81	MP1B	Mx	-.045	69
82	MP1C	X	0	3
83	MP1C	Z	133.05	3
84	MP1C	Mx	.058	3
85	MP1C	X	0	69
86	MP1C	Z	133.05	69
87	MP1C	Mx	.058	69
88	MP4B	X	0	3
89	MP4B	Z	139.312	3
90	MP4B	Mx	-.045	3
91	MP4B	X	0	69
92	MP4B	Z	139.312	69
93	MP4B	Mx	-.045	69
94	MP4C	X	0	3
95	MP4C	Z	133.05	3
96	MP4C	Mx	.058	3
97	MP4C	X	0	69
98	MP4C	Z	133.05	69
99	MP4C	Mx	.058	69
100	MP1A	X	0	3
101	MP1A	Z	54.419	3
102	MP1A	Mx	0	3
103	MP1A	X	0	45
104	MP1A	Z	54.419	45
105	MP1A	Mx	0	45
106	MP4A	X	0	3
107	MP4A	Z	54.419	3
108	MP4A	Mx	0	3
109	MP4A	X	0	45
110	MP4A	Z	54.419	45
111	MP4A	Mx	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-96.297	12
2	MP2A	Z	166.791	12
3	MP2A	Mx	.159	12
4	MP2A	X	-96.297	60
5	MP2A	Z	166.791	60
6	MP2A	Mx	.159	60
7	MP2B	X	-79.587	12
8	MP2B	Z	137.848	12
9	MP2B	Mx	-.111	12
10	MP2B	X	-79.587	60
11	MP2B	Z	137.848	60
12	MP2B	Mx	-.111	60
13	MP2C	X	-96.297	12
14	MP2C	Z	166.791	12
15	MP2C	Mx	-.063	12
16	MP2C	X	-96.297	60
17	MP2C	Z	166.791	60
18	MP2C	Mx	-.063	60
19	MP2A	X	-96.297	12
20	MP2A	Z	166.791	12
21	MP2A	Mx	-.063	12
22	MP2A	X	-96.297	60
23	MP2A	Z	166.791	60
24	MP2A	Mx	-.063	60
25	MP2B	X	-79.587	12
26	MP2B	Z	137.848	12
27	MP2B	Mx	-.038	12
28	MP2B	X	-79.587	60
29	MP2B	Z	137.848	60
30	MP2B	Mx	-.038	60
31	MP2C	X	-96.297	12
32	MP2C	Z	166.791	12
33	MP2C	Mx	.159	12
34	MP2C	X	-96.297	60
35	MP2C	Z	166.791	60
36	MP2C	Mx	.159	60
37	MP3A	X	-41.544	6
38	MP3A	Z	71.957	6
39	MP3A	Mx	.021	6
40	MP3A	X	-41.544	30
41	MP3A	Z	71.957	30
42	MP3A	Mx	.021	30
43	MP3B	X	-22.67	6
44	MP3B	Z	39.266	6
45	MP3B	Mx	-.021	6
46	MP3B	X	-22.67	30
47	MP3B	Z	39.266	30
48	MP3B	Mx	-.021	30
49	MP3C	X	-41.544	6
50	MP3C	Z	71.957	6
51	MP3C	Mx	.021	6
52	MP3C	X	-41.544	30
53	MP3C	Z	71.957	30
54	MP3C	Mx	.021	30
55	M60	X	-58.985	15
56	M60	Z	102.166	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-35.758	36
59	MP3A	Z	61.935	36
60	MP3A	Mx	-.018	36
61	MP3B	X	-27.575	36
62	MP3B	Z	47.761	36
63	MP3B	Mx	.026	36
64	MP3C	X	-35.758	36
65	MP3C	Z	61.935	36
66	MP3C	Mx	-.018	36
67	MP2A	X	-34.52	36
68	MP2A	Z	59.791	36
69	MP2A	Mx	-.017	36
70	MP2B	X	-23.202	36
71	MP2B	Z	40.188	36
72	MP2B	Mx	.022	36
73	MP2C	X	-34.52	36
74	MP2C	Z	59.791	36
75	MP2C	Mx	-.017	36
76	MP1B	X	-65.289	3
77	MP1B	Z	113.083	3
78	MP1B	Mx	-.061	3
79	MP1B	X	-65.289	69
80	MP1B	Z	113.083	69
81	MP1B	Mx	-.061	69
82	MP1C	X	-71.173	3
83	MP1C	Z	123.275	3
84	MP1C	Mx	.036	3
85	MP1C	X	-71.173	69
86	MP1C	Z	123.275	69
87	MP1C	Mx	.036	69
88	MP4B	X	-65.289	3
89	MP4B	Z	113.083	3
90	MP4B	Mx	-.061	3
91	MP4B	X	-65.289	69
92	MP4B	Z	113.083	69
93	MP4B	Mx	-.061	69
94	MP4C	X	-71.173	3
95	MP4C	Z	123.275	3
96	MP4C	Mx	.036	3
97	MP4C	X	-71.173	69
98	MP4C	Z	123.275	69
99	MP4C	Mx	.036	69
100	MP1A	X	-34.478	3
101	MP1A	Z	59.718	3
102	MP1A	Mx	.017	3
103	MP1A	X	-34.478	45
104	MP1A	Z	59.718	45
105	MP1A	Mx	.017	45
106	MP4A	X	-34.478	3
107	MP4A	Z	59.718	3
108	MP4A	Mx	.017	3
109	MP4A	X	-34.478	45
110	MP4A	Z	59.718	45
111	MP4A	Mx	.017	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-143.93	12
2	MP2A	Z	83.098	12
3	MP2A	Mx	.127	12
4	MP2A	X	-143.93	60
5	MP2A	Z	83.098	60
6	MP2A	Mx	.127	60
7	MP2B	X	-133.879	12
8	MP2B	Z	77.295	12
9	MP2B	Mx	-.058	12
10	MP2B	X	-133.879	60
11	MP2B	Z	77.295	60
12	MP2B	Mx	-.058	60
13	MP2C	X	-178.221	12
14	MP2C	Z	102.896	12
15	MP2C	Mx	-.137	12
16	MP2C	X	-178.221	60
17	MP2C	Z	102.896	60
18	MP2C	Mx	-.137	60
19	MP2A	X	-143.93	12
20	MP2A	Z	83.098	12
21	MP2A	Mx	.017	12
22	MP2A	X	-143.93	60
23	MP2A	Z	83.098	60
24	MP2A	Mx	.017	60
25	MP2B	X	-133.879	12
26	MP2B	Z	77.295	12
27	MP2B	Mx	-.094	12
28	MP2B	X	-133.879	60
29	MP2B	Z	77.295	60
30	MP2B	Mx	-.094	60
31	MP2C	X	-178.221	12
32	MP2C	Z	102.896	12
33	MP2C	Mx	.137	12
34	MP2C	X	-178.221	60
35	MP2C	Z	102.896	60
36	MP2C	Mx	.137	60
37	MP3A	X	-46.136	6
38	MP3A	Z	26.636	6
39	MP3A	Mx	.023	6
40	MP3A	X	-46.136	30
41	MP3A	Z	26.636	30
42	MP3A	Mx	.023	30
43	MP3B	X	-34.782	6
44	MP3B	Z	20.082	6
45	MP3B	Mx	-.02	6
46	MP3B	X	-34.782	30
47	MP3B	Z	20.082	30
48	MP3B	Mx	-.02	30
49	MP3C	X	-84.867	6
50	MP3C	Z	48.998	6
51	MP3C	Mx	0	6
52	MP3C	X	-84.867	30
53	MP3C	Z	48.998	30
54	MP3C	Mx	0	30
55	M60	X	-90.598	15
56	M60	Z	52.306	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-50.74	36
59	MP3A	Z	29.295	36
60	MP3A	Mx	-.025	36
61	MP3B	X	-45.817	36
62	MP3B	Z	26.453	36
63	MP3B	Mx	.026	36
64	MP3C	X	-67.532	36
65	MP3C	Z	38.99	36
66	MP3C	Mx	0	36
67	MP2A	X	-44.307	36
68	MP2A	Z	25.581	36
69	MP2A	Mx	-.022	36
70	MP2B	X	-37.499	36
71	MP2B	Z	21.65	36
72	MP2B	Mx	.021	36
73	MP2C	X	-67.532	36
74	MP2C	Z	38.99	36
75	MP2C	Mx	0	36
76	MP1B	X	-111.685	3
77	MP1B	Z	64.482	3
78	MP1B	Mx	-.064	3
79	MP1B	X	-111.685	69
80	MP1B	Z	64.482	69
81	MP1B	Mx	-.064	69
82	MP1C	X	-127.3	3
83	MP1C	Z	73.497	3
84	MP1C	Mx	0	3
85	MP1C	X	-127.3	69
86	MP1C	Z	73.497	69
87	MP1C	Mx	0	69
88	MP4B	X	-111.685	3
89	MP4B	Z	64.482	3
90	MP4B	Mx	-.064	3
91	MP4B	X	-111.685	69
92	MP4B	Z	64.482	69
93	MP4B	Mx	-.064	69
94	MP4C	X	-127.3	3
95	MP4C	Z	73.497	3
96	MP4C	Mx	0	3
97	MP4C	X	-127.3	69
98	MP4C	Z	73.497	69
99	MP4C	Mx	0	69
100	MP1A	X	-84.897	3
101	MP1A	Z	49.015	3
102	MP1A	Mx	.042	3
103	MP1A	X	-84.897	45
104	MP1A	Z	49.015	45
105	MP1A	Mx	.042	45
106	MP4A	X	-84.897	3
107	MP4A	Z	49.015	3
108	MP4A	Mx	.042	3
109	MP4A	X	-84.897	45
110	MP4A	Z	49.015	45
111	MP4A	Mx	.042	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-152.998	12
2	MP2A	Z	0	12
3	MP2A	Mx	.076	12
4	MP2A	X	-152.998	60
5	MP2A	Z	0	60
6	MP2A	Mx	.076	60
7	MP2B	X	-174.811	12
8	MP2B	Z	0	12
9	MP2B	Mx	.008	12
10	MP2B	X	-174.811	60
11	MP2B	Z	0	60
12	MP2B	Mx	.008	60
13	MP2C	X	-192.593	12
14	MP2C	Z	0	12
15	MP2C	Mx	-.159	12
16	MP2C	X	-192.593	60
17	MP2C	Z	0	60
18	MP2C	Mx	-.159	60
19	MP2A	X	-152.998	12
20	MP2A	Z	0	12
21	MP2A	Mx	.076	12
22	MP2A	X	-152.998	60
23	MP2A	Z	0	60
24	MP2A	Mx	.076	60
25	MP2B	X	-174.811	12
26	MP2B	Z	0	12
27	MP2B	Mx	-.142	12
28	MP2B	X	-174.811	60
29	MP2B	Z	0	60
30	MP2B	Mx	-.142	60
31	MP2C	X	-192.593	12
32	MP2C	Z	0	12
33	MP2C	Mx	.063	12
34	MP2C	X	-192.593	60
35	MP2C	Z	0	60
36	MP2C	Mx	.063	60
37	MP3A	X	-38.365	6
38	MP3A	Z	0	6
39	MP3A	Mx	.019	6
40	MP3A	X	-38.365	30
41	MP3A	Z	0	30
42	MP3A	Mx	.019	30
43	MP3B	X	-63.003	6
44	MP3B	Z	0	6
45	MP3B	Mx	-.024	6
46	MP3B	X	-63.003	30
47	MP3B	Z	0	30
48	MP3B	Mx	-.024	30
49	MP3C	X	-83.088	6
50	MP3C	Z	0	6
51	MP3C	Mx	-.021	6
52	MP3C	X	-83.088	30
53	MP3C	Z	0	30
54	MP3C	Mx	-.021	30
55	M60	X	-117.971	15
56	M60	Z	0	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-52.126	36
59	MP3A	Z	0	36
60	MP3A	Mx	-.026	36
61	MP3B	X	-62.808	36
62	MP3B	Z	0	36
63	MP3B	Mx	.024	36
64	MP3C	X	-71.516	36
65	MP3C	Z	0	36
66	MP3C	Mx	.018	36
67	MP2A	X	-42.222	36
68	MP2A	Z	0	36
69	MP2A	Mx	-.021	36
70	MP2B	X	-56.996	36
71	MP2B	Z	0	36
72	MP2B	Mx	.022	36
73	MP2C	X	-69.04	36
74	MP2C	Z	0	36
75	MP2C	Mx	.017	36
76	MP1B	X	-136.084	3
77	MP1B	Z	0	3
78	MP1B	Mx	-.052	3
79	MP1B	X	-136.084	69
80	MP1B	Z	0	69
81	MP1B	Mx	-.052	69
82	MP1C	X	-142.346	3
83	MP1C	Z	0	3
84	MP1C	Mx	-.036	3
85	MP1C	X	-142.346	69
86	MP1C	Z	0	69
87	MP1C	Mx	-.036	69
88	MP4B	X	-136.084	3
89	MP4B	Z	0	3
90	MP4B	Mx	-.052	3
91	MP4B	X	-136.084	69
92	MP4B	Z	0	69
93	MP4B	Mx	-.052	69
94	MP4C	X	-142.346	3
95	MP4C	Z	0	3
96	MP4C	Mx	-.036	3
97	MP4C	X	-142.346	69
98	MP4C	Z	0	69
99	MP4C	Mx	-.036	69
100	MP1A	X	-112.567	3
101	MP1A	Z	0	3
102	MP1A	Mx	.056	3
103	MP1A	X	-112.567	45
104	MP1A	Z	0	45
105	MP1A	Mx	.056	45
106	MP4A	X	-112.567	3
107	MP4A	Z	0	3
108	MP4A	Mx	.056	3
109	MP4A	X	-112.567	45
110	MP4A	Z	0	45
111	MP4A	Mx	.056	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-143.93	12
2	MP2A	Z	-83.098	12
3	MP2A	Mx	.017	12
4	MP2A	X	-143.93	60
5	MP2A	Z	-83.098	60
6	MP2A	Mx	.017	60
7	MP2B	X	-172.872	12
8	MP2B	Z	-99.808	12
9	MP2B	Mx	.091	12
10	MP2B	X	-172.872	60
11	MP2B	Z	-99.808	60
12	MP2B	Mx	.091	60
13	MP2C	X	-143.93	12
14	MP2C	Z	-83.098	12
15	MP2C	Mx	-.127	12
16	MP2C	X	-143.93	60
17	MP2C	Z	-83.098	60
18	MP2C	Mx	-.127	60
19	MP2A	X	-143.93	12
20	MP2A	Z	-83.098	12
21	MP2A	Mx	.127	12
22	MP2A	X	-143.93	60
23	MP2A	Z	-83.098	60
24	MP2A	Mx	.127	60
25	MP2B	X	-172.872	12
26	MP2B	Z	-99.808	12
27	MP2B	Mx	-.159	12
28	MP2B	X	-172.872	60
29	MP2B	Z	-99.808	60
30	MP2B	Mx	-.159	60
31	MP2C	X	-143.93	12
32	MP2C	Z	-83.098	12
33	MP2C	Mx	-.017	12
34	MP2C	X	-143.93	60
35	MP2C	Z	-83.098	60
36	MP2C	Mx	-.017	60
37	MP3A	X	-46.136	6
38	MP3A	Z	-26.636	6
39	MP3A	Mx	.023	6
40	MP3A	X	-46.136	30
41	MP3A	Z	-26.636	30
42	MP3A	Mx	.023	30
43	MP3B	X	-78.826	6
44	MP3B	Z	-45.51	6
45	MP3B	Mx	-.016	6
46	MP3B	X	-78.826	30
47	MP3B	Z	-45.51	30
48	MP3B	Mx	-.016	30
49	MP3C	X	-46.136	6
50	MP3C	Z	-26.636	6
51	MP3C	Mx	-.023	6
52	MP3C	X	-46.136	30
53	MP3C	Z	-26.636	30
54	MP3C	Mx	-.023	30
55	M60	X	-125.302	15
56	M60	Z	-72.343	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-50.74	36
59	MP3A	Z	-29.295	36
60	MP3A	Mx	-.025	36
61	MP3B	X	-64.913	36
62	MP3B	Z	-37.478	36
63	MP3B	Mx	.013	36
64	MP3C	X	-50.74	36
65	MP3C	Z	-29.295	36
66	MP3C	Mx	.025	36
67	MP2A	X	-44.307	36
68	MP2A	Z	-25.581	36
69	MP2A	Mx	-.022	36
70	MP2B	X	-63.91	36
71	MP2B	Z	-36.898	36
72	MP2B	Mx	.013	36
73	MP2C	X	-44.307	36
74	MP2C	Z	-25.581	36
75	MP2C	Mx	.022	36
76	MP1B	X	-125.417	3
77	MP1B	Z	-72.41	3
78	MP1B	Mx	-.025	3
79	MP1B	X	-125.417	69
80	MP1B	Z	-72.41	69
81	MP1B	Mx	-.025	69
82	MP1C	X	-115.225	3
83	MP1C	Z	-66.525	3
84	MP1C	Mx	-.058	3
85	MP1C	X	-115.225	69
86	MP1C	Z	-66.525	69
87	MP1C	Mx	-.058	69
88	MP4B	X	-125.417	3
89	MP4B	Z	-72.41	3
90	MP4B	Mx	-.025	3
91	MP4B	X	-125.417	69
92	MP4B	Z	-72.41	69
93	MP4B	Mx	-.025	69
94	MP4C	X	-115.225	3
95	MP4C	Z	-66.525	3
96	MP4C	Mx	-.058	3
97	MP4C	X	-115.225	69
98	MP4C	Z	-66.525	69
99	MP4C	Mx	-.058	69
100	MP1A	X	-84.897	3
101	MP1A	Z	-49.015	3
102	MP1A	Mx	.042	3
103	MP1A	X	-84.897	45
104	MP1A	Z	-49.015	45
105	MP1A	Mx	.042	45
106	MP4A	X	-84.897	3
107	MP4A	Z	-49.015	3
108	MP4A	Mx	.042	3
109	MP4A	X	-84.897	45
110	MP4A	Z	-49.015	45
111	MP4A	Mx	.042	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-96.297	12
2	MP2A	Z	-166.791	12
3	MP2A	Mx	-.063	12
4	MP2A	X	-96.297	60
5	MP2A	Z	-166.791	60
6	MP2A	Mx	-.063	60
7	MP2B	X	-102.1	12
8	MP2B	Z	-176.842	12
9	MP2B	Mx	.152	12
10	MP2B	X	-102.1	60
11	MP2B	Z	-176.842	60
12	MP2B	Mx	.152	60
13	MP2C	X	-76.499	12
14	MP2C	Z	-132.5	12
15	MP2C	Mx	-.076	12
16	MP2C	X	-76.499	60
17	MP2C	Z	-132.5	60
18	MP2C	Mx	-.076	60
19	MP2A	X	-96.297	12
20	MP2A	Z	-166.791	12
21	MP2A	Mx	.159	12
22	MP2A	X	-96.297	60
23	MP2A	Z	-166.791	60
24	MP2A	Mx	.159	60
25	MP2B	X	-102.1	12
26	MP2B	Z	-176.842	12
27	MP2B	Mx	-.116	12
28	MP2B	X	-102.1	60
29	MP2B	Z	-176.842	60
30	MP2B	Mx	-.116	60
31	MP2C	X	-76.499	12
32	MP2C	Z	-132.5	12
33	MP2C	Mx	-.076	12
34	MP2C	X	-76.499	60
35	MP2C	Z	-132.5	60
36	MP2C	Mx	-.076	60
37	MP3A	X	-41.544	6
38	MP3A	Z	-71.957	6
39	MP3A	Mx	.021	6
40	MP3A	X	-41.544	30
41	MP3A	Z	-71.957	30
42	MP3A	Mx	.021	30
43	MP3B	X	-48.099	6
44	MP3B	Z	-83.31	6
45	MP3B	Mx	.008	6
46	MP3B	X	-48.099	30
47	MP3B	Z	-83.31	30
48	MP3B	Mx	.008	30
49	MP3C	X	-19.183	6
50	MP3C	Z	-33.225	6
51	MP3C	Mx	-.019	6
52	MP3C	X	-19.183	30
53	MP3C	Z	-33.225	30
54	MP3C	Mx	-.019	30
55	M60	X	-79.022	15
56	M60	Z	-136.871	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-35.758	36
59	MP3A	Z	-61.935	36
60	MP3A	Mx	-.018	36
61	MP3B	X	-38.6	36
62	MP3B	Z	-66.857	36
63	MP3B	Mx	-.007	36
64	MP3C	X	-26.063	36
65	MP3C	Z	-45.142	36
66	MP3C	Mx	.026	36
67	MP2A	X	-34.52	36
68	MP2A	Z	-59.791	36
69	MP2A	Mx	-.017	36
70	MP2B	X	-38.451	36
71	MP2B	Z	-66.599	36
72	MP2B	Mx	-.007	36
73	MP2C	X	-21.111	36
74	MP2C	Z	-36.565	36
75	MP2C	Mx	.021	36
76	MP1B	X	-73.217	3
77	MP1B	Z	-126.815	3
78	MP1B	Mx	.013	3
79	MP1B	X	-73.217	69
80	MP1B	Z	-126.815	69
81	MP1B	Mx	.013	69
82	MP1C	X	-64.201	3
83	MP1C	Z	-111.2	3
84	MP1C	Mx	-.064	3
85	MP1C	X	-64.201	69
86	MP1C	Z	-111.2	69
87	MP1C	Mx	-.064	69
88	MP4B	X	-73.217	3
89	MP4B	Z	-126.815	3
90	MP4B	Mx	.013	3
91	MP4B	X	-73.217	69
92	MP4B	Z	-126.815	69
93	MP4B	Mx	.013	69
94	MP4C	X	-64.201	3
95	MP4C	Z	-111.2	3
96	MP4C	Mx	-.064	3
97	MP4C	X	-64.201	69
98	MP4C	Z	-111.2	69
99	MP4C	Mx	-.064	69
100	MP1A	X	-34.478	3
101	MP1A	Z	-59.718	3
102	MP1A	Mx	.017	3
103	MP1A	X	-34.478	45
104	MP1A	Z	-59.718	45
105	MP1A	Mx	.017	45
106	MP4A	X	-34.478	3
107	MP4A	Z	-59.718	3
108	MP4A	Mx	.017	3
109	MP4A	X	-34.478	45
110	MP4A	Z	-59.718	45
111	MP4A	Mx	.017	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	12
2	MP2A	Z	-38.94	12
3	MP2A	Mx	-.026	12
4	MP2A	X	0	60
5	MP2A	Z	-38.94	60
6	MP2A	Mx	-.026	60
7	MP2B	X	0	12
8	MP2B	Z	-35.021	12
9	MP2B	Mx	.029	12
10	MP2B	X	0	60
11	MP2B	Z	-35.021	60
12	MP2B	Mx	.029	60
13	MP2C	X	0	12
14	MP2C	Z	-31.827	12
15	MP2C	Mx	-.003	12
16	MP2C	X	0	60
17	MP2C	Z	-31.827	60
18	MP2C	Mx	-.003	60
19	MP2A	X	0	12
20	MP2A	Z	-38.94	12
21	MP2A	Mx	.026	12
22	MP2A	X	0	60
23	MP2A	Z	-38.94	60
24	MP2A	Mx	.026	60
25	MP2B	X	0	12
26	MP2B	Z	-35.021	12
27	MP2B	Mx	-.007	12
28	MP2B	X	0	60
29	MP2B	Z	-35.021	60
30	MP2B	Mx	-.007	60
31	MP2C	X	0	12
32	MP2C	Z	-31.827	12
33	MP2C	Mx	-.024	12
34	MP2C	X	0	60
35	MP2C	Z	-31.827	60
36	MP2C	Mx	-.024	60
37	MP3A	X	0	6
38	MP3A	Z	-19.207	6
39	MP3A	Mx	0	6
40	MP3A	X	0	30
41	MP3A	Z	-19.207	30
42	MP3A	Mx	0	30
43	MP3B	X	0	6
44	MP3B	Z	-14.65	6
45	MP3B	Mx	.005	6
46	MP3B	X	0	30
47	MP3B	Z	-14.65	30
48	MP3B	Mx	.005	30
49	MP3C	X	0	6
50	MP3C	Z	-10.935	6
51	MP3C	Mx	-.005	6
52	MP3C	X	0	30
53	MP3C	Z	-10.935	30
54	MP3C	Mx	-.005	30
55	M60	X	0	15
56	M60	Z	-28.698	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	0	36
59	MP3A	Z	-16.182	36
60	MP3A	Mx	0	36
61	MP3B	X	0	36
62	MP3B	Z	-14.146	36
63	MP3B	Mx	-.005	36
64	MP3C	X	0	36
65	MP3C	Z	-12.486	36
66	MP3C	Mx	.005	36
67	MP2A	X	0	36
68	MP2A	Z	-16.182	36
69	MP2A	Mx	0	36
70	MP2B	X	0	36
71	MP2B	Z	-13.372	36
72	MP2B	Mx	-.004	36
73	MP2C	X	0	36
74	MP2C	Z	-11.081	36
75	MP2C	Mx	.005	36
76	MP1B	X	0	3
77	MP1B	Z	-27.079	3
78	MP1B	Mx	.009	3
79	MP1B	X	0	69
80	MP1B	Z	-27.079	69
81	MP1B	Mx	.009	69
82	MP1C	X	0	3
83	MP1C	Z	-26.038	3
84	MP1C	Mx	-.011	3
85	MP1C	X	0	69
86	MP1C	Z	-26.038	69
87	MP1C	Mx	-.011	69
88	MP4B	X	0	3
89	MP4B	Z	-27.079	3
90	MP4B	Mx	.009	3
91	MP4B	X	0	69
92	MP4B	Z	-27.079	69
93	MP4B	Mx	.009	69
94	MP4C	X	0	3
95	MP4C	Z	-26.038	3
96	MP4C	Mx	-.011	3
97	MP4C	X	0	69
98	MP4C	Z	-26.038	69
99	MP4C	Mx	-.011	69
100	MP1A	X	0	3
101	MP1A	Z	-11.44	3
102	MP1A	Mx	0	3
103	MP1A	X	0	45
104	MP1A	Z	-11.44	45
105	MP1A	Mx	0	45
106	MP4A	X	0	3
107	MP4A	Z	-11.44	3
108	MP4A	Mx	0	3
109	MP4A	X	0	45
110	MP4A	Z	-11.44	45
111	MP4A	Mx	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	18.284	12
2	MP2A	Z	-31.67	12
3	MP2A	Mx	-.03	12
4	MP2A	X	18.284	60
5	MP2A	Z	-31.67	60
6	MP2A	Mx	-.03	60
7	MP2B	X	15.282	12
8	MP2B	Z	-26.47	12
9	MP2B	Mx	.021	12
10	MP2B	X	15.282	60
11	MP2B	Z	-26.47	60
12	MP2B	Mx	.021	60
13	MP2C	X	18.284	12
14	MP2C	Z	-31.67	12
15	MP2C	Mx	.012	12
16	MP2C	X	18.284	60
17	MP2C	Z	-31.67	60
18	MP2C	Mx	.012	60
19	MP2A	X	18.284	12
20	MP2A	Z	-31.67	12
21	MP2A	Mx	.012	12
22	MP2A	X	18.284	60
23	MP2A	Z	-31.67	60
24	MP2A	Mx	.012	60
25	MP2B	X	15.282	12
26	MP2B	Z	-26.47	12
27	MP2B	Mx	.007	12
28	MP2B	X	15.282	60
29	MP2B	Z	-26.47	60
30	MP2B	Mx	.007	60
31	MP2C	X	18.284	12
32	MP2C	Z	-31.67	12
33	MP2C	Mx	-.03	12
34	MP2C	X	18.284	60
35	MP2C	Z	-31.67	60
36	MP2C	Mx	-.03	60
37	MP3A	X	8.225	6
38	MP3A	Z	-14.246	6
39	MP3A	Mx	-.004	6
40	MP3A	X	8.225	30
41	MP3A	Z	-14.246	30
42	MP3A	Mx	-.004	30
43	MP3B	X	4.734	6
44	MP3B	Z	-8.199	6
45	MP3B	Mx	.004	6
46	MP3B	X	4.734	30
47	MP3B	Z	-8.199	30
48	MP3B	Mx	.004	30
49	MP3C	X	8.225	6
50	MP3C	Z	-14.246	6
51	MP3C	Mx	-.004	6
52	MP3C	X	8.225	30
53	MP3C	Z	-14.246	30
54	MP3C	Mx	-.004	30
55	M60	X	11.886	15
56	M60	Z	-20.588	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	7.475	36
59	MP3A	Z	-12.947	36
60	MP3A	Mx	.004	36
61	MP3B	X	5.915	36
62	MP3B	Z	-10.245	36
63	MP3B	Mx	-.006	36
64	MP3C	X	7.475	36
65	MP3C	Z	-12.947	36
66	MP3C	Mx	.004	36
67	MP2A	X	7.241	36
68	MP2A	Z	-12.542	36
69	MP2A	Mx	.004	36
70	MP2B	X	5.088	36
71	MP2B	Z	-8.813	36
72	MP2B	Mx	-.005	36
73	MP2C	X	7.241	36
74	MP2C	Z	-12.542	36
75	MP2C	Mx	.004	36
76	MP1B	X	12.814	3
77	MP1B	Z	-22.194	3
78	MP1B	Mx	.012	3
79	MP1B	X	12.814	69
80	MP1B	Z	-22.194	69
81	MP1B	Mx	.012	69
82	MP1C	X	13.792	3
83	MP1C	Z	-23.888	3
84	MP1C	Mx	-.007	3
85	MP1C	X	13.792	69
86	MP1C	Z	-23.888	69
87	MP1C	Mx	-.007	69
88	MP4B	X	12.814	3
89	MP4B	Z	-22.194	3
90	MP4B	Mx	.012	3
91	MP4B	X	12.814	69
92	MP4B	Z	-22.194	69
93	MP4B	Mx	.012	69
94	MP4C	X	13.792	3
95	MP4C	Z	-23.888	3
96	MP4C	Mx	-.007	3
97	MP4C	X	13.792	69
98	MP4C	Z	-23.888	69
99	MP4C	Mx	-.007	69
100	MP1A	X	7.023	3
101	MP1A	Z	-12.164	3
102	MP1A	Mx	-.004	3
103	MP1A	X	7.023	45
104	MP1A	Z	-12.164	45
105	MP1A	Mx	-.004	45
106	MP4A	X	7.023	3
107	MP4A	Z	-12.164	3
108	MP4A	Mx	-.004	3
109	MP4A	X	7.023	45
110	MP4A	Z	-12.164	45
111	MP4A	Mx	-.004	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	27.563	12
2	MP2A	Z	-15.913	12
3	MP2A	Mx	-.024	12
4	MP2A	X	27.563	60
5	MP2A	Z	-15.913	60
6	MP2A	Mx	-.024	60
7	MP2B	X	25.757	12
8	MP2B	Z	-14.871	12
9	MP2B	Mx	.011	12
10	MP2B	X	25.757	60
11	MP2B	Z	-14.871	60
12	MP2B	Mx	.011	60
13	MP2C	X	33.723	12
14	MP2C	Z	-19.47	12
15	MP2C	Mx	.026	12
16	MP2C	X	33.723	60
17	MP2C	Z	-19.47	60
18	MP2C	Mx	.026	60
19	MP2A	X	27.563	12
20	MP2A	Z	-15.913	12
21	MP2A	Mx	-.003	12
22	MP2A	X	27.563	60
23	MP2A	Z	-15.913	60
24	MP2A	Mx	-.003	60
25	MP2B	X	25.757	12
26	MP2B	Z	-14.871	12
27	MP2B	Mx	.018	12
28	MP2B	X	25.757	60
29	MP2B	Z	-14.871	60
30	MP2B	Mx	.018	60
31	MP2C	X	33.723	12
32	MP2C	Z	-19.47	12
33	MP2C	Mx	-.026	12
34	MP2C	X	33.723	60
35	MP2C	Z	-19.47	60
36	MP2C	Mx	-.026	60
37	MP3A	X	9.47	6
38	MP3A	Z	-5.467	6
39	MP3A	Mx	-.005	6
40	MP3A	X	9.47	30
41	MP3A	Z	-5.467	30
42	MP3A	Mx	-.005	30
43	MP3B	X	7.37	6
44	MP3B	Z	-4.255	6
45	MP3B	Mx	.004	6
46	MP3B	X	7.37	30
47	MP3B	Z	-4.255	30
48	MP3B	Mx	.004	30
49	MP3C	X	16.634	6
50	MP3C	Z	-9.603	6
51	MP3C	Mx	0	6
52	MP3C	X	16.634	30
53	MP3C	Z	-9.603	30
54	MP3C	Mx	0	30
55	M60	X	18.455	15
56	M60	Z	-10.655	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	10.813	36
59	MP3A	Z	-6.243	36
60	MP3A	Mx	.005	36
61	MP3B	X	9.875	36
62	MP3B	Z	-5.701	36
63	MP3B	Mx	-.006	36
64	MP3C	X	14.014	36
65	MP3C	Z	-8.091	36
66	MP3C	Mx	0	36
67	MP2A	X	9.597	36
68	MP2A	Z	-5.541	36
69	MP2A	Mx	.005	36
70	MP2B	X	8.302	36
71	MP2B	Z	-4.793	36
72	MP2B	Mx	-.005	36
73	MP2C	X	14.014	36
74	MP2C	Z	-8.091	36
75	MP2C	Mx	0	36
76	MP1B	X	21.962	3
77	MP1B	Z	-12.68	3
78	MP1B	Mx	.012	3
79	MP1B	X	21.962	69
80	MP1B	Z	-12.68	69
81	MP1B	Mx	.012	69
82	MP1C	X	24.557	3
83	MP1C	Z	-14.178	3
84	MP1C	Mx	0	3
85	MP1C	X	24.557	69
86	MP1C	Z	-14.178	69
87	MP1C	Mx	0	69
88	MP4B	X	21.962	3
89	MP4B	Z	-12.68	3
90	MP4B	Mx	.012	3
91	MP4B	X	21.962	69
92	MP4B	Z	-12.68	69
93	MP4B	Mx	.012	69
94	MP4C	X	24.557	3
95	MP4C	Z	-14.178	3
96	MP4C	Mx	0	3
97	MP4C	X	24.557	69
98	MP4C	Z	-14.178	69
99	MP4C	Mx	0	69
100	MP1A	X	16.678	3
101	MP1A	Z	-9.629	3
102	MP1A	Mx	-.008	3
103	MP1A	X	16.678	45
104	MP1A	Z	-9.629	45
105	MP1A	Mx	-.008	45
106	MP4A	X	16.678	3
107	MP4A	Z	-9.629	3
108	MP4A	Mx	-.008	3
109	MP4A	X	16.678	45
110	MP4A	Z	-9.629	45
111	MP4A	Mx	-.008	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	29.455	12
2	MP2A	Z	0	12
3	MP2A	Mx	-.015	12
4	MP2A	X	29.455	60
5	MP2A	Z	0	60
6	MP2A	Mx	-.015	60
7	MP2B	X	33.374	12
8	MP2B	Z	0	12
9	MP2B	Mx	-.002	12
10	MP2B	X	33.374	60
11	MP2B	Z	0	60
12	MP2B	Mx	-.002	60
13	MP2C	X	36.569	12
14	MP2C	Z	0	12
15	MP2C	Mx	.03	12
16	MP2C	X	36.569	60
17	MP2C	Z	0	60
18	MP2C	Mx	.03	60
19	MP2A	X	29.455	12
20	MP2A	Z	0	12
21	MP2A	Mx	-.015	12
22	MP2A	X	29.455	60
23	MP2A	Z	0	60
24	MP2A	Mx	-.015	60
25	MP2B	X	33.374	12
26	MP2B	Z	0	12
27	MP2B	Mx	.027	12
28	MP2B	X	33.374	60
29	MP2B	Z	0	60
30	MP2B	Mx	.027	60
31	MP2C	X	36.569	12
32	MP2C	Z	0	12
33	MP2C	Mx	-.012	12
34	MP2C	X	36.569	60
35	MP2C	Z	0	60
36	MP2C	Mx	-.012	60
37	MP3A	X	8.177	6
38	MP3A	Z	0	6
39	MP3A	Mx	-.004	6
40	MP3A	X	8.177	30
41	MP3A	Z	0	30
42	MP3A	Mx	-.004	30
43	MP3B	X	12.734	6
44	MP3B	Z	0	6
45	MP3B	Mx	.005	6
46	MP3B	X	12.734	30
47	MP3B	Z	0	30
48	MP3B	Mx	.005	30
49	MP3C	X	16.449	6
50	MP3C	Z	0	6
51	MP3C	Mx	.004	6
52	MP3C	X	16.449	30
53	MP3C	Z	0	30
54	MP3C	Mx	.004	30
55	M60	X	23.772	15
56	M60	Z	0	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	11.254	36
59	MP3A	Z	0	36
60	MP3A	Mx	.006	36
61	MP3B	X	13.29	36
62	MP3B	Z	0	36
63	MP3B	Mx	-.005	36
64	MP3C	X	14.95	36
65	MP3C	Z	0	36
66	MP3C	Mx	-.004	36
67	MP2A	X	9.381	36
68	MP2A	Z	0	36
69	MP2A	Mx	.005	36
70	MP2B	X	12.191	36
71	MP2B	Z	0	36
72	MP2B	Mx	-.005	36
73	MP2C	X	14.482	36
74	MP2C	Z	0	36
75	MP2C	Mx	-.004	36
76	MP1B	X	26.542	3
77	MP1B	Z	0	3
78	MP1B	Mx	.01	3
79	MP1B	X	26.542	69
80	MP1B	Z	0	69
81	MP1B	Mx	.01	69
82	MP1C	X	27.583	3
83	MP1C	Z	0	3
84	MP1C	Mx	.007	3
85	MP1C	X	27.583	69
86	MP1C	Z	0	69
87	MP1C	Mx	.007	69
88	MP4B	X	26.542	3
89	MP4B	Z	0	3
90	MP4B	Mx	.01	3
91	MP4B	X	26.542	69
92	MP4B	Z	0	69
93	MP4B	Mx	.01	69
94	MP4C	X	27.583	3
95	MP4C	Z	0	3
96	MP4C	Mx	.007	3
97	MP4C	X	27.583	69
98	MP4C	Z	0	69
99	MP4C	Mx	.007	69
100	MP1A	X	21.865	3
101	MP1A	Z	0	3
102	MP1A	Mx	-.011	3
103	MP1A	X	21.865	45
104	MP1A	Z	0	45
105	MP1A	Mx	-.011	45
106	MP4A	X	21.865	3
107	MP4A	Z	0	3
108	MP4A	Mx	-.011	3
109	MP4A	X	21.865	45
110	MP4A	Z	0	45
111	MP4A	Mx	-.011	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	27.563	12
2	MP2A	Z	15.913	12
3	MP2A	Mx	-.003	12
4	MP2A	X	27.563	60
5	MP2A	Z	15.913	60
6	MP2A	Mx	-.003	60
7	MP2B	X	32.762	12
8	MP2B	Z	18.915	12
9	MP2B	Mx	-.017	12
10	MP2B	X	32.762	60
11	MP2B	Z	18.915	60
12	MP2B	Mx	-.017	60
13	MP2C	X	27.563	12
14	MP2C	Z	15.913	12
15	MP2C	Mx	.024	12
16	MP2C	X	27.563	60
17	MP2C	Z	15.913	60
18	MP2C	Mx	.024	60
19	MP2A	X	27.563	12
20	MP2A	Z	15.913	12
21	MP2A	Mx	-.024	12
22	MP2A	X	27.563	60
23	MP2A	Z	15.913	60
24	MP2A	Mx	-.024	60
25	MP2B	X	32.762	12
26	MP2B	Z	18.915	12
27	MP2B	Mx	.03	12
28	MP2B	X	32.762	60
29	MP2B	Z	18.915	60
30	MP2B	Mx	.03	60
31	MP2C	X	27.563	12
32	MP2C	Z	15.913	12
33	MP2C	Mx	.003	12
34	MP2C	X	27.563	60
35	MP2C	Z	15.913	60
36	MP2C	Mx	.003	60
37	MP3A	X	9.47	6
38	MP3A	Z	5.467	6
39	MP3A	Mx	-.005	6
40	MP3A	X	9.47	30
41	MP3A	Z	5.467	30
42	MP3A	Mx	-.005	30
43	MP3B	X	15.516	6
44	MP3B	Z	8.958	6
45	MP3B	Mx	.003	6
46	MP3B	X	15.516	30
47	MP3B	Z	8.958	30
48	MP3B	Mx	.003	30
49	MP3C	X	9.47	6
50	MP3C	Z	5.467	6
51	MP3C	Mx	.005	6
52	MP3C	X	9.47	30
53	MP3C	Z	5.467	30
54	MP3C	Mx	.005	30
55	M60	X	24.853	15
56	M60	Z	14.349	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	10.813	36
59	MP3A	Z	6.243	36
60	MP3A	Mx	.005	36
61	MP3B	X	13.515	36
62	MP3B	Z	7.803	36
63	MP3B	Mx	-.003	36
64	MP3C	X	10.813	36
65	MP3C	Z	6.243	36
66	MP3C	Mx	-.005	36
67	MP2A	X	9.597	36
68	MP2A	Z	5.541	36
69	MP2A	Mx	.005	36
70	MP2B	X	13.325	36
71	MP2B	Z	7.693	36
72	MP2B	Mx	-.003	36
73	MP2C	X	9.597	36
74	MP2C	Z	5.541	36
75	MP2C	Mx	-.005	36
76	MP1B	X	24.244	3
77	MP1B	Z	13.997	3
78	MP1B	Mx	.005	3
79	MP1B	X	24.244	69
80	MP1B	Z	13.997	69
81	MP1B	Mx	.005	69
82	MP1C	X	22.55	3
83	MP1C	Z	13.019	3
84	MP1C	Mx	.011	3
85	MP1C	X	22.55	69
86	MP1C	Z	13.019	69
87	MP1C	Mx	.011	69
88	MP4B	X	24.244	3
89	MP4B	Z	13.997	3
90	MP4B	Mx	.005	3
91	MP4B	X	24.244	69
92	MP4B	Z	13.997	69
93	MP4B	Mx	.005	69
94	MP4C	X	22.55	3
95	MP4C	Z	13.019	3
96	MP4C	Mx	.011	3
97	MP4C	X	22.55	69
98	MP4C	Z	13.019	69
99	MP4C	Mx	.011	69
100	MP1A	X	16.678	3
101	MP1A	Z	9.629	3
102	MP1A	Mx	-.008	3
103	MP1A	X	16.678	45
104	MP1A	Z	9.629	45
105	MP1A	Mx	-.008	45
106	MP4A	X	16.678	3
107	MP4A	Z	9.629	3
108	MP4A	Mx	-.008	3
109	MP4A	X	16.678	45
110	MP4A	Z	9.629	45
111	MP4A	Mx	-.008	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	18.284	12
2	MP2A	Z	31.67	12
3	MP2A	Mx	.012	12
4	MP2A	X	18.284	60
5	MP2A	Z	31.67	60
6	MP2A	Mx	.012	60
7	MP2B	X	19.327	12
8	MP2B	Z	33.476	12
9	MP2B	Mx	-.029	12
10	MP2B	X	19.327	60
11	MP2B	Z	33.476	60
12	MP2B	Mx	-.029	60
13	MP2C	X	14.728	12
14	MP2C	Z	25.509	12
15	MP2C	Mx	.015	12
16	MP2C	X	14.728	60
17	MP2C	Z	25.509	60
18	MP2C	Mx	.015	60
19	MP2A	X	18.284	12
20	MP2A	Z	31.67	12
21	MP2A	Mx	-.03	12
22	MP2A	X	18.284	60
23	MP2A	Z	31.67	60
24	MP2A	Mx	-.03	60
25	MP2B	X	19.327	12
26	MP2B	Z	33.476	12
27	MP2B	Mx	.022	12
28	MP2B	X	19.327	60
29	MP2B	Z	33.476	60
30	MP2B	Mx	.022	60
31	MP2C	X	14.728	12
32	MP2C	Z	25.509	12
33	MP2C	Mx	.015	12
34	MP2C	X	14.728	60
35	MP2C	Z	25.509	60
36	MP2C	Mx	.015	60
37	MP3A	X	8.225	6
38	MP3A	Z	14.246	6
39	MP3A	Mx	-.004	6
40	MP3A	X	8.225	30
41	MP3A	Z	14.246	30
42	MP3A	Mx	-.004	30
43	MP3B	X	9.437	6
44	MP3B	Z	16.346	6
45	MP3B	Mx	-.002	6
46	MP3B	X	9.437	30
47	MP3B	Z	16.346	30
48	MP3B	Mx	-.002	30
49	MP3C	X	4.089	6
50	MP3C	Z	7.082	6
51	MP3C	Mx	.004	6
52	MP3C	X	4.089	30
53	MP3C	Z	7.082	30
54	MP3C	Mx	.004	30
55	M60	X	15.58	15
56	M60	Z	26.986	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	7.475	36
59	MP3A	Z	12.947	36
60	MP3A	Mx	.004	36
61	MP3B	X	8.017	36
62	MP3B	Z	13.886	36
63	MP3B	Mx	.001	36
64	MP3C	X	5.627	36
65	MP3C	Z	9.746	36
66	MP3C	Mx	-.006	36
67	MP2A	X	7.241	36
68	MP2A	Z	12.542	36
69	MP2A	Mx	.004	36
70	MP2B	X	7.989	36
71	MP2B	Z	13.837	36
72	MP2B	Mx	.001	36
73	MP2C	X	4.691	36
74	MP2C	Z	8.124	36
75	MP2C	Mx	-.005	36
76	MP1B	X	14.131	3
77	MP1B	Z	24.476	3
78	MP1B	Mx	-.002	3
79	MP1B	X	14.131	69
80	MP1B	Z	24.476	69
81	MP1B	Mx	-.002	69
82	MP1C	X	12.633	3
83	MP1C	Z	21.881	3
84	MP1C	Mx	.013	3
85	MP1C	X	12.633	69
86	MP1C	Z	21.881	69
87	MP1C	Mx	.013	69
88	MP4B	X	14.131	3
89	MP4B	Z	24.476	3
90	MP4B	Mx	-.002	3
91	MP4B	X	14.131	69
92	MP4B	Z	24.476	69
93	MP4B	Mx	-.002	69
94	MP4C	X	12.633	3
95	MP4C	Z	21.881	3
96	MP4C	Mx	.013	3
97	MP4C	X	12.633	69
98	MP4C	Z	21.881	69
99	MP4C	Mx	.013	69
100	MP1A	X	7.023	3
101	MP1A	Z	12.164	3
102	MP1A	Mx	-.004	3
103	MP1A	X	7.023	45
104	MP1A	Z	12.164	45
105	MP1A	Mx	-.004	45
106	MP4A	X	7.023	3
107	MP4A	Z	12.164	3
108	MP4A	Mx	-.004	3
109	MP4A	X	7.023	45
110	MP4A	Z	12.164	45
111	MP4A	Mx	-.004	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	12
2	MP2A	Z	38.94	12
3	MP2A	Mx	.026	12
4	MP2A	X	0	60
5	MP2A	Z	38.94	60
6	MP2A	Mx	.026	60
7	MP2B	X	0	12
8	MP2B	Z	35.021	12
9	MP2B	Mx	-.029	12
10	MP2B	X	0	60
11	MP2B	Z	35.021	60
12	MP2B	Mx	-.029	60
13	MP2C	X	0	12
14	MP2C	Z	31.827	12
15	MP2C	Mx	.003	12
16	MP2C	X	0	60
17	MP2C	Z	31.827	60
18	MP2C	Mx	.003	60
19	MP2A	X	0	12
20	MP2A	Z	38.94	12
21	MP2A	Mx	-.026	12
22	MP2A	X	0	60
23	MP2A	Z	38.94	60
24	MP2A	Mx	-.026	60
25	MP2B	X	0	12
26	MP2B	Z	35.021	12
27	MP2B	Mx	.007	12
28	MP2B	X	0	60
29	MP2B	Z	35.021	60
30	MP2B	Mx	.007	60
31	MP2C	X	0	12
32	MP2C	Z	31.827	12
33	MP2C	Mx	.024	12
34	MP2C	X	0	60
35	MP2C	Z	31.827	60
36	MP2C	Mx	.024	60
37	MP3A	X	0	6
38	MP3A	Z	19.207	6
39	MP3A	Mx	0	6
40	MP3A	X	0	30
41	MP3A	Z	19.207	30
42	MP3A	Mx	0	30
43	MP3B	X	0	6
44	MP3B	Z	14.65	6
45	MP3B	Mx	-.005	6
46	MP3B	X	0	30
47	MP3B	Z	14.65	30
48	MP3B	Mx	-.005	30
49	MP3C	X	0	6
50	MP3C	Z	10.935	6
51	MP3C	Mx	.005	6
52	MP3C	X	0	30
53	MP3C	Z	10.935	30
54	MP3C	Mx	.005	30
55	M60	X	0	15
56	M60	Z	28.698	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	0	36
59	MP3A	Z	16.182	36
60	MP3A	Mx	0	36
61	MP3B	X	0	36
62	MP3B	Z	14.146	36
63	MP3B	Mx	.005	36
64	MP3C	X	0	36
65	MP3C	Z	12.486	36
66	MP3C	Mx	-.005	36
67	MP2A	X	0	36
68	MP2A	Z	16.182	36
69	MP2A	Mx	0	36
70	MP2B	X	0	36
71	MP2B	Z	13.372	36
72	MP2B	Mx	.004	36
73	MP2C	X	0	36
74	MP2C	Z	11.081	36
75	MP2C	Mx	-.005	36
76	MP1B	X	0	3
77	MP1B	Z	27.079	3
78	MP1B	Mx	-.009	3
79	MP1B	X	0	69
80	MP1B	Z	27.079	69
81	MP1B	Mx	-.009	69
82	MP1C	X	0	3
83	MP1C	Z	26.038	3
84	MP1C	Mx	.011	3
85	MP1C	X	0	69
86	MP1C	Z	26.038	69
87	MP1C	Mx	.011	69
88	MP4B	X	0	3
89	MP4B	Z	27.079	3
90	MP4B	Mx	-.009	3
91	MP4B	X	0	69
92	MP4B	Z	27.079	69
93	MP4B	Mx	-.009	69
94	MP4C	X	0	3
95	MP4C	Z	26.038	3
96	MP4C	Mx	.011	3
97	MP4C	X	0	69
98	MP4C	Z	26.038	69
99	MP4C	Mx	.011	69
100	MP1A	X	0	3
101	MP1A	Z	11.44	3
102	MP1A	Mx	0	3
103	MP1A	X	0	45
104	MP1A	Z	11.44	45
105	MP1A	Mx	0	45
106	MP4A	X	0	3
107	MP4A	Z	11.44	3
108	MP4A	Mx	0	3
109	MP4A	X	0	45
110	MP4A	Z	11.44	45
111	MP4A	Mx	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-18.284	12
2	MP2A	Z	31.67	12
3	MP2A	Mx	.03	12
4	MP2A	X	-18.284	60
5	MP2A	Z	31.67	60
6	MP2A	Mx	.03	60
7	MP2B	X	-15.282	12
8	MP2B	Z	26.47	12
9	MP2B	Mx	-.021	12
10	MP2B	X	-15.282	60
11	MP2B	Z	26.47	60
12	MP2B	Mx	-.021	60
13	MP2C	X	-18.284	12
14	MP2C	Z	31.67	12
15	MP2C	Mx	-.012	12
16	MP2C	X	-18.284	60
17	MP2C	Z	31.67	60
18	MP2C	Mx	-.012	60
19	MP2A	X	-18.284	12
20	MP2A	Z	31.67	12
21	MP2A	Mx	-.012	12
22	MP2A	X	-18.284	60
23	MP2A	Z	31.67	60
24	MP2A	Mx	-.012	60
25	MP2B	X	-15.282	12
26	MP2B	Z	26.47	12
27	MP2B	Mx	-.007	12
28	MP2B	X	-15.282	60
29	MP2B	Z	26.47	60
30	MP2B	Mx	-.007	60
31	MP2C	X	-18.284	12
32	MP2C	Z	31.67	12
33	MP2C	Mx	.03	12
34	MP2C	X	-18.284	60
35	MP2C	Z	31.67	60
36	MP2C	Mx	.03	60
37	MP3A	X	-8.225	6
38	MP3A	Z	14.246	6
39	MP3A	Mx	.004	6
40	MP3A	X	-8.225	30
41	MP3A	Z	14.246	30
42	MP3A	Mx	.004	30
43	MP3B	X	-4.734	6
44	MP3B	Z	8.199	6
45	MP3B	Mx	-.004	6
46	MP3B	X	-4.734	30
47	MP3B	Z	8.199	30
48	MP3B	Mx	-.004	30
49	MP3C	X	-8.225	6
50	MP3C	Z	14.246	6
51	MP3C	Mx	.004	6
52	MP3C	X	-8.225	30
53	MP3C	Z	14.246	30
54	MP3C	Mx	.004	30
55	M60	X	-11.886	15
56	M60	Z	20.588	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-7.475	36
59	MP3A	Z	12.947	36
60	MP3A	Mx	-.004	36
61	MP3B	X	-5.915	36
62	MP3B	Z	10.245	36
63	MP3B	Mx	.006	36
64	MP3C	X	-7.475	36
65	MP3C	Z	12.947	36
66	MP3C	Mx	-.004	36
67	MP2A	X	-7.241	36
68	MP2A	Z	12.542	36
69	MP2A	Mx	-.004	36
70	MP2B	X	-5.088	36
71	MP2B	Z	8.813	36
72	MP2B	Mx	.005	36
73	MP2C	X	-7.241	36
74	MP2C	Z	12.542	36
75	MP2C	Mx	-.004	36
76	MP1B	X	-12.814	3
77	MP1B	Z	22.194	3
78	MP1B	Mx	-.012	3
79	MP1B	X	-12.814	69
80	MP1B	Z	22.194	69
81	MP1B	Mx	-.012	69
82	MP1C	X	-13.792	3
83	MP1C	Z	23.888	3
84	MP1C	Mx	.007	3
85	MP1C	X	-13.792	69
86	MP1C	Z	23.888	69
87	MP1C	Mx	.007	69
88	MP4B	X	-12.814	3
89	MP4B	Z	22.194	3
90	MP4B	Mx	-.012	3
91	MP4B	X	-12.814	69
92	MP4B	Z	22.194	69
93	MP4B	Mx	-.012	69
94	MP4C	X	-13.792	3
95	MP4C	Z	23.888	3
96	MP4C	Mx	.007	3
97	MP4C	X	-13.792	69
98	MP4C	Z	23.888	69
99	MP4C	Mx	.007	69
100	MP1A	X	-7.023	3
101	MP1A	Z	12.164	3
102	MP1A	Mx	.004	3
103	MP1A	X	-7.023	45
104	MP1A	Z	12.164	45
105	MP1A	Mx	.004	45
106	MP4A	X	-7.023	3
107	MP4A	Z	12.164	3
108	MP4A	Mx	.004	3
109	MP4A	X	-7.023	45
110	MP4A	Z	12.164	45
111	MP4A	Mx	.004	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-27.563	12
2	MP2A	Z	15.913	12
3	MP2A	Mx	.024	12
4	MP2A	X	-27.563	60
5	MP2A	Z	15.913	60
6	MP2A	Mx	.024	60
7	MP2B	X	-25.757	12
8	MP2B	Z	14.871	12
9	MP2B	Mx	-.011	12
10	MP2B	X	-25.757	60
11	MP2B	Z	14.871	60
12	MP2B	Mx	-.011	60
13	MP2C	X	-33.723	12
14	MP2C	Z	19.47	12
15	MP2C	Mx	-.026	12
16	MP2C	X	-33.723	60
17	MP2C	Z	19.47	60
18	MP2C	Mx	-.026	60
19	MP2A	X	-27.563	12
20	MP2A	Z	15.913	12
21	MP2A	Mx	.003	12
22	MP2A	X	-27.563	60
23	MP2A	Z	15.913	60
24	MP2A	Mx	.003	60
25	MP2B	X	-25.757	12
26	MP2B	Z	14.871	12
27	MP2B	Mx	-.018	12
28	MP2B	X	-25.757	60
29	MP2B	Z	14.871	60
30	MP2B	Mx	-.018	60
31	MP2C	X	-33.723	12
32	MP2C	Z	19.47	12
33	MP2C	Mx	.026	12
34	MP2C	X	-33.723	60
35	MP2C	Z	19.47	60
36	MP2C	Mx	.026	60
37	MP3A	X	-9.47	6
38	MP3A	Z	5.467	6
39	MP3A	Mx	.005	6
40	MP3A	X	-9.47	30
41	MP3A	Z	5.467	30
42	MP3A	Mx	.005	30
43	MP3B	X	-7.37	6
44	MP3B	Z	4.255	6
45	MP3B	Mx	-.004	6
46	MP3B	X	-7.37	30
47	MP3B	Z	4.255	30
48	MP3B	Mx	-.004	30
49	MP3C	X	-16.634	6
50	MP3C	Z	9.603	6
51	MP3C	Mx	0	6
52	MP3C	X	-16.634	30
53	MP3C	Z	9.603	30
54	MP3C	Mx	0	30
55	M60	X	-18.455	15
56	M60	Z	10.655	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-10.813	36
59	MP3A	Z	6.243	36
60	MP3A	Mx	-.005	36
61	MP3B	X	-9.875	36
62	MP3B	Z	5.701	36
63	MP3B	Mx	.006	36
64	MP3C	X	-14.014	36
65	MP3C	Z	8.091	36
66	MP3C	Mx	0	36
67	MP2A	X	-9.597	36
68	MP2A	Z	5.541	36
69	MP2A	Mx	-.005	36
70	MP2B	X	-8.302	36
71	MP2B	Z	4.793	36
72	MP2B	Mx	.005	36
73	MP2C	X	-14.014	36
74	MP2C	Z	8.091	36
75	MP2C	Mx	0	36
76	MP1B	X	-21.962	3
77	MP1B	Z	12.68	3
78	MP1B	Mx	-.012	3
79	MP1B	X	-21.962	69
80	MP1B	Z	12.68	69
81	MP1B	Mx	-.012	69
82	MP1C	X	-24.557	3
83	MP1C	Z	14.178	3
84	MP1C	Mx	0	3
85	MP1C	X	-24.557	69
86	MP1C	Z	14.178	69
87	MP1C	Mx	0	69
88	MP4B	X	-21.962	3
89	MP4B	Z	12.68	3
90	MP4B	Mx	-.012	3
91	MP4B	X	-21.962	69
92	MP4B	Z	12.68	69
93	MP4B	Mx	-.012	69
94	MP4C	X	-24.557	3
95	MP4C	Z	14.178	3
96	MP4C	Mx	0	3
97	MP4C	X	-24.557	69
98	MP4C	Z	14.178	69
99	MP4C	Mx	0	69
100	MP1A	X	-16.678	3
101	MP1A	Z	9.629	3
102	MP1A	Mx	.008	3
103	MP1A	X	-16.678	45
104	MP1A	Z	9.629	45
105	MP1A	Mx	.008	45
106	MP4A	X	-16.678	3
107	MP4A	Z	9.629	3
108	MP4A	Mx	.008	3
109	MP4A	X	-16.678	45
110	MP4A	Z	9.629	45
111	MP4A	Mx	.008	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-29.455	12
2	MP2A	Z	0	12
3	MP2A	Mx	.015	12
4	MP2A	X	-29.455	60
5	MP2A	Z	0	60
6	MP2A	Mx	.015	60
7	MP2B	X	-33.374	12
8	MP2B	Z	0	12
9	MP2B	Mx	.002	12
10	MP2B	X	-33.374	60
11	MP2B	Z	0	60
12	MP2B	Mx	.002	60
13	MP2C	X	-36.569	12
14	MP2C	Z	0	12
15	MP2C	Mx	-.03	12
16	MP2C	X	-36.569	60
17	MP2C	Z	0	60
18	MP2C	Mx	-.03	60
19	MP2A	X	-29.455	12
20	MP2A	Z	0	12
21	MP2A	Mx	.015	12
22	MP2A	X	-29.455	60
23	MP2A	Z	0	60
24	MP2A	Mx	.015	60
25	MP2B	X	-33.374	12
26	MP2B	Z	0	12
27	MP2B	Mx	-.027	12
28	MP2B	X	-33.374	60
29	MP2B	Z	0	60
30	MP2B	Mx	-.027	60
31	MP2C	X	-36.569	12
32	MP2C	Z	0	12
33	MP2C	Mx	.012	12
34	MP2C	X	-36.569	60
35	MP2C	Z	0	60
36	MP2C	Mx	.012	60
37	MP3A	X	-8.177	6
38	MP3A	Z	0	6
39	MP3A	Mx	.004	6
40	MP3A	X	-8.177	30
41	MP3A	Z	0	30
42	MP3A	Mx	.004	30
43	MP3B	X	-12.734	6
44	MP3B	Z	0	6
45	MP3B	Mx	-.005	6
46	MP3B	X	-12.734	30
47	MP3B	Z	0	30
48	MP3B	Mx	-.005	30
49	MP3C	X	-16.449	6
50	MP3C	Z	0	6
51	MP3C	Mx	-.004	6
52	MP3C	X	-16.449	30
53	MP3C	Z	0	30
54	MP3C	Mx	-.004	30
55	M60	X	-23.772	15
56	M60	Z	0	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-11.254	36
59	MP3A	Z	0	36
60	MP3A	Mx	-.006	36
61	MP3B	X	-13.29	36
62	MP3B	Z	0	36
63	MP3B	Mx	.005	36
64	MP3C	X	-14.95	36
65	MP3C	Z	0	36
66	MP3C	Mx	.004	36
67	MP2A	X	-9.381	36
68	MP2A	Z	0	36
69	MP2A	Mx	-.005	36
70	MP2B	X	-12.191	36
71	MP2B	Z	0	36
72	MP2B	Mx	.005	36
73	MP2C	X	-14.482	36
74	MP2C	Z	0	36
75	MP2C	Mx	.004	36
76	MP1B	X	-26.542	3
77	MP1B	Z	0	3
78	MP1B	Mx	-.01	3
79	MP1B	X	-26.542	69
80	MP1B	Z	0	69
81	MP1B	Mx	-.01	69
82	MP1C	X	-27.583	3
83	MP1C	Z	0	3
84	MP1C	Mx	-.007	3
85	MP1C	X	-27.583	69
86	MP1C	Z	0	69
87	MP1C	Mx	-.007	69
88	MP4B	X	-26.542	3
89	MP4B	Z	0	3
90	MP4B	Mx	-.01	3
91	MP4B	X	-26.542	69
92	MP4B	Z	0	69
93	MP4B	Mx	-.01	69
94	MP4C	X	-27.583	3
95	MP4C	Z	0	3
96	MP4C	Mx	-.007	3
97	MP4C	X	-27.583	69
98	MP4C	Z	0	69
99	MP4C	Mx	-.007	69
100	MP1A	X	-21.865	3
101	MP1A	Z	0	3
102	MP1A	Mx	.011	3
103	MP1A	X	-21.865	45
104	MP1A	Z	0	45
105	MP1A	Mx	.011	45
106	MP4A	X	-21.865	3
107	MP4A	Z	0	3
108	MP4A	Mx	.011	3
109	MP4A	X	-21.865	45
110	MP4A	Z	0	45
111	MP4A	Mx	.011	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-27.563	12
2	MP2A	Z	-15.913	12
3	MP2A	Mx	.003	12
4	MP2A	X	-27.563	60
5	MP2A	Z	-15.913	60
6	MP2A	Mx	.003	60
7	MP2B	X	-32.762	12
8	MP2B	Z	-18.915	12
9	MP2B	Mx	.017	12
10	MP2B	X	-32.762	60
11	MP2B	Z	-18.915	60
12	MP2B	Mx	.017	60
13	MP2C	X	-27.563	12
14	MP2C	Z	-15.913	12
15	MP2C	Mx	-.024	12
16	MP2C	X	-27.563	60
17	MP2C	Z	-15.913	60
18	MP2C	Mx	-.024	60
19	MP2A	X	-27.563	12
20	MP2A	Z	-15.913	12
21	MP2A	Mx	.024	12
22	MP2A	X	-27.563	60
23	MP2A	Z	-15.913	60
24	MP2A	Mx	.024	60
25	MP2B	X	-32.762	12
26	MP2B	Z	-18.915	12
27	MP2B	Mx	-.03	12
28	MP2B	X	-32.762	60
29	MP2B	Z	-18.915	60
30	MP2B	Mx	-.03	60
31	MP2C	X	-27.563	12
32	MP2C	Z	-15.913	12
33	MP2C	Mx	-.003	12
34	MP2C	X	-27.563	60
35	MP2C	Z	-15.913	60
36	MP2C	Mx	-.003	60
37	MP3A	X	-9.47	6
38	MP3A	Z	-5.467	6
39	MP3A	Mx	.005	6
40	MP3A	X	-9.47	30
41	MP3A	Z	-5.467	30
42	MP3A	Mx	.005	30
43	MP3B	X	-15.516	6
44	MP3B	Z	-8.958	6
45	MP3B	Mx	-.003	6
46	MP3B	X	-15.516	30
47	MP3B	Z	-8.958	30
48	MP3B	Mx	-.003	30
49	MP3C	X	-9.47	6
50	MP3C	Z	-5.467	6
51	MP3C	Mx	-.005	6
52	MP3C	X	-9.47	30
53	MP3C	Z	-5.467	30
54	MP3C	Mx	-.005	30
55	M60	X	-24.853	15
56	M60	Z	-14.349	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-10.813	36
59	MP3A	Z	-6.243	36
60	MP3A	Mx	-.005	36
61	MP3B	X	-13.515	36
62	MP3B	Z	-7.803	36
63	MP3B	Mx	.003	36
64	MP3C	X	-10.813	36
65	MP3C	Z	-6.243	36
66	MP3C	Mx	.005	36
67	MP2A	X	-9.597	36
68	MP2A	Z	-5.541	36
69	MP2A	Mx	-.005	36
70	MP2B	X	-13.325	36
71	MP2B	Z	-7.693	36
72	MP2B	Mx	.003	36
73	MP2C	X	-9.597	36
74	MP2C	Z	-5.541	36
75	MP2C	Mx	.005	36
76	MP1B	X	-24.244	3
77	MP1B	Z	-13.997	3
78	MP1B	Mx	-.005	3
79	MP1B	X	-24.244	69
80	MP1B	Z	-13.997	69
81	MP1B	Mx	-.005	69
82	MP1C	X	-22.55	3
83	MP1C	Z	-13.019	3
84	MP1C	Mx	-.011	3
85	MP1C	X	-22.55	69
86	MP1C	Z	-13.019	69
87	MP1C	Mx	-.011	69
88	MP4B	X	-24.244	3
89	MP4B	Z	-13.997	3
90	MP4B	Mx	-.005	3
91	MP4B	X	-24.244	69
92	MP4B	Z	-13.997	69
93	MP4B	Mx	-.005	69
94	MP4C	X	-22.55	3
95	MP4C	Z	-13.019	3
96	MP4C	Mx	-.011	3
97	MP4C	X	-22.55	69
98	MP4C	Z	-13.019	69
99	MP4C	Mx	-.011	69
100	MP1A	X	-16.678	3
101	MP1A	Z	-9.629	3
102	MP1A	Mx	.008	3
103	MP1A	X	-16.678	45
104	MP1A	Z	-9.629	45
105	MP1A	Mx	.008	45
106	MP4A	X	-16.678	3
107	MP4A	Z	-9.629	3
108	MP4A	Mx	.008	3
109	MP4A	X	-16.678	45
110	MP4A	Z	-9.629	45
111	MP4A	Mx	.008	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-18.284	12
2	MP2A	Z	-31.67	12
3	MP2A	Mx	-.012	12
4	MP2A	X	-18.284	60
5	MP2A	Z	-31.67	60
6	MP2A	Mx	-.012	60
7	MP2B	X	-19.327	12
8	MP2B	Z	-33.476	12
9	MP2B	Mx	.029	12
10	MP2B	X	-19.327	60
11	MP2B	Z	-33.476	60
12	MP2B	Mx	.029	60
13	MP2C	X	-14.728	12
14	MP2C	Z	-25.509	12
15	MP2C	Mx	-.015	12
16	MP2C	X	-14.728	60
17	MP2C	Z	-25.509	60
18	MP2C	Mx	-.015	60
19	MP2A	X	-18.284	12
20	MP2A	Z	-31.67	12
21	MP2A	Mx	.03	12
22	MP2A	X	-18.284	60
23	MP2A	Z	-31.67	60
24	MP2A	Mx	.03	60
25	MP2B	X	-19.327	12
26	MP2B	Z	-33.476	12
27	MP2B	Mx	-.022	12
28	MP2B	X	-19.327	60
29	MP2B	Z	-33.476	60
30	MP2B	Mx	-.022	60
31	MP2C	X	-14.728	12
32	MP2C	Z	-25.509	12
33	MP2C	Mx	-.015	12
34	MP2C	X	-14.728	60
35	MP2C	Z	-25.509	60
36	MP2C	Mx	-.015	60
37	MP3A	X	-8.225	6
38	MP3A	Z	-14.246	6
39	MP3A	Mx	.004	6
40	MP3A	X	-8.225	30
41	MP3A	Z	-14.246	30
42	MP3A	Mx	.004	30
43	MP3B	X	-9.437	6
44	MP3B	Z	-16.346	6
45	MP3B	Mx	.002	6
46	MP3B	X	-9.437	30
47	MP3B	Z	-16.346	30
48	MP3B	Mx	.002	30
49	MP3C	X	-4.089	6
50	MP3C	Z	-7.082	6
51	MP3C	Mx	-.004	6
52	MP3C	X	-4.089	30
53	MP3C	Z	-7.082	30
54	MP3C	Mx	-.004	30
55	M60	X	-15.58	15
56	M60	Z	-26.986	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-7.475	36
59	MP3A	Z	-12.947	36
60	MP3A	Mx	-.004	36
61	MP3B	X	-8.017	36
62	MP3B	Z	-13.886	36
63	MP3B	Mx	-.001	36
64	MP3C	X	-5.627	36
65	MP3C	Z	-9.746	36
66	MP3C	Mx	.006	36
67	MP2A	X	-7.241	36
68	MP2A	Z	-12.542	36
69	MP2A	Mx	-.004	36
70	MP2B	X	-7.989	36
71	MP2B	Z	-13.837	36
72	MP2B	Mx	-.001	36
73	MP2C	X	-4.691	36
74	MP2C	Z	-8.124	36
75	MP2C	Mx	.005	36
76	MP1B	X	-14.131	3
77	MP1B	Z	-24.476	3
78	MP1B	Mx	.002	3
79	MP1B	X	-14.131	69
80	MP1B	Z	-24.476	69
81	MP1B	Mx	.002	69
82	MP1C	X	-12.633	3
83	MP1C	Z	-21.881	3
84	MP1C	Mx	-.013	3
85	MP1C	X	-12.633	69
86	MP1C	Z	-21.881	69
87	MP1C	Mx	-.013	69
88	MP4B	X	-14.131	3
89	MP4B	Z	-24.476	3
90	MP4B	Mx	.002	3
91	MP4B	X	-14.131	69
92	MP4B	Z	-24.476	69
93	MP4B	Mx	.002	69
94	MP4C	X	-12.633	3
95	MP4C	Z	-21.881	3
96	MP4C	Mx	-.013	3
97	MP4C	X	-12.633	69
98	MP4C	Z	-21.881	69
99	MP4C	Mx	-.013	69
100	MP1A	X	-7.023	3
101	MP1A	Z	-12.164	3
102	MP1A	Mx	.004	3
103	MP1A	X	-7.023	45
104	MP1A	Z	-12.164	45
105	MP1A	Mx	.004	45
106	MP4A	X	-7.023	3
107	MP4A	Z	-12.164	3
108	MP4A	Mx	.004	3
109	MP4A	X	-7.023	45
110	MP4A	Z	-12.164	45
111	MP4A	Mx	.004	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	12
2	MP2A	Z	-12.862	12
3	MP2A	Mx	-.009	12
4	MP2A	X	0	60
5	MP2A	Z	-12.862	60
6	MP2A	Mx	-.009	60
7	MP2B	X	0	12
8	MP2B	Z	-11.499	12
9	MP2B	Mx	.01	12
10	MP2B	X	0	60
11	MP2B	Z	-11.499	60
12	MP2B	Mx	.01	60
13	MP2C	X	0	12
14	MP2C	Z	-10.387	12
15	MP2C	Mx	-.001	12
16	MP2C	X	0	60
17	MP2C	Z	-10.387	60
18	MP2C	Mx	-.001	60
19	MP2A	X	0	12
20	MP2A	Z	-12.862	12
21	MP2A	Mx	.009	12
22	MP2A	X	0	60
23	MP2A	Z	-12.862	60
24	MP2A	Mx	.009	60
25	MP2B	X	0	12
26	MP2B	Z	-11.499	12
27	MP2B	Mx	-.002	12
28	MP2B	X	0	60
29	MP2B	Z	-11.499	60
30	MP2B	Mx	-.002	60
31	MP2C	X	0	12
32	MP2C	Z	-10.387	12
33	MP2C	Mx	-.008	12
34	MP2C	X	0	60
35	MP2C	Z	-10.387	60
36	MP2C	Mx	-.008	60
37	MP3A	X	0	6
38	MP3A	Z	-6.125	6
39	MP3A	Mx	0	6
40	MP3A	X	0	30
41	MP3A	Z	-6.125	30
42	MP3A	Mx	0	30
43	MP3B	X	0	6
44	MP3B	Z	-4.585	6
45	MP3B	Mx	.001	6
46	MP3B	X	0	30
47	MP3B	Z	-4.585	30
48	MP3B	Mx	.001	30
49	MP3C	X	0	6
50	MP3C	Z	-3.33	6
51	MP3C	Mx	-.001	6
52	MP3C	X	0	30
53	MP3C	Z	-3.33	30
54	MP3C	Mx	-.001	30
55	M60	X	0	15
56	M60	Z	-9.043	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	0	36
59	MP3A	Z	-4.874	36
60	MP3A	Mx	0	36
61	MP3B	X	0	36
62	MP3B	Z	-4.206	36
63	MP3B	Mx	-.001	36
64	MP3C	X	0	36
65	MP3C	Z	-3.662	36
66	MP3C	Mx	.002	36
67	MP2A	X	0	36
68	MP2A	Z	-4.874	36
69	MP2A	Mx	0	36
70	MP2B	X	0	36
71	MP2B	Z	-3.95	36
72	MP2B	Mx	-.001	36
73	MP2C	X	0	36
74	MP2C	Z	-3.198	36
75	MP2C	Mx	.001	36
76	MP1B	X	0	3
77	MP1B	Z	-8.707	3
78	MP1B	Mx	.003	3
79	MP1B	X	0	69
80	MP1B	Z	-8.707	69
81	MP1B	Mx	.003	69
82	MP1C	X	0	3
83	MP1C	Z	-8.316	3
84	MP1C	Mx	-.004	3
85	MP1C	X	0	69
86	MP1C	Z	-8.316	69
87	MP1C	Mx	-.004	69
88	MP4B	X	0	3
89	MP4B	Z	-8.707	3
90	MP4B	Mx	.003	3
91	MP4B	X	0	69
92	MP4B	Z	-8.707	69
93	MP4B	Mx	.003	69
94	MP4C	X	0	3
95	MP4C	Z	-8.316	3
96	MP4C	Mx	-.004	3
97	MP4C	X	0	69
98	MP4C	Z	-8.316	69
99	MP4C	Mx	-.004	69
100	MP1A	X	0	3
101	MP1A	Z	-3.401	3
102	MP1A	Mx	0	3
103	MP1A	X	0	45
104	MP1A	Z	-3.401	45
105	MP1A	Mx	0	45
106	MP4A	X	0	3
107	MP4A	Z	-3.401	3
108	MP4A	Mx	0	3
109	MP4A	X	0	45
110	MP4A	Z	-3.401	45
111	MP4A	Mx	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	6.019	12
2	MP2A	Z	-10.424	12
3	MP2A	Mx	-.01	12
4	MP2A	X	6.019	60
5	MP2A	Z	-10.424	60
6	MP2A	Mx	-.01	60
7	MP2B	X	4.974	12
8	MP2B	Z	-8.616	12
9	MP2B	Mx	.007	12
10	MP2B	X	4.974	60
11	MP2B	Z	-8.616	60
12	MP2B	Mx	.007	60
13	MP2C	X	6.019	12
14	MP2C	Z	-10.424	12
15	MP2C	Mx	.004	12
16	MP2C	X	6.019	60
17	MP2C	Z	-10.424	60
18	MP2C	Mx	.004	60
19	MP2A	X	6.019	12
20	MP2A	Z	-10.424	12
21	MP2A	Mx	.004	12
22	MP2A	X	6.019	60
23	MP2A	Z	-10.424	60
24	MP2A	Mx	.004	60
25	MP2B	X	4.974	12
26	MP2B	Z	-8.616	12
27	MP2B	Mx	.002	12
28	MP2B	X	4.974	60
29	MP2B	Z	-8.616	60
30	MP2B	Mx	.002	60
31	MP2C	X	6.019	12
32	MP2C	Z	-10.424	12
33	MP2C	Mx	-.01	12
34	MP2C	X	6.019	60
35	MP2C	Z	-10.424	60
36	MP2C	Mx	-.01	60
37	MP3A	X	2.597	6
38	MP3A	Z	-4.497	6
39	MP3A	Mx	-.001	6
40	MP3A	X	2.597	30
41	MP3A	Z	-4.497	30
42	MP3A	Mx	-.001	30
43	MP3B	X	1.417	6
44	MP3B	Z	-2.454	6
45	MP3B	Mx	.001	6
46	MP3B	X	1.417	30
47	MP3B	Z	-2.454	30
48	MP3B	Mx	.001	30
49	MP3C	X	2.597	6
50	MP3C	Z	-4.497	6
51	MP3C	Mx	-.001	6
52	MP3C	X	2.597	30
53	MP3C	Z	-4.497	30
54	MP3C	Mx	-.001	30
55	M60	X	3.687	15
56	M60	Z	-6.385	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	2.235	36
59	MP3A	Z	-3.871	36
60	MP3A	Mx	.001	36
61	MP3B	X	1.723	36
62	MP3B	Z	-2.985	36
63	MP3B	Mx	-.002	36
64	MP3C	X	2.235	36
65	MP3C	Z	-3.871	36
66	MP3C	Mx	.001	36
67	MP2A	X	2.158	36
68	MP2A	Z	-3.737	36
69	MP2A	Mx	.001	36
70	MP2B	X	1.45	36
71	MP2B	Z	-2.512	36
72	MP2B	Mx	-.001	36
73	MP2C	X	2.158	36
74	MP2C	Z	-3.737	36
75	MP2C	Mx	.001	36
76	MP1B	X	4.081	3
77	MP1B	Z	-7.068	3
78	MP1B	Mx	.004	3
79	MP1B	X	4.081	69
80	MP1B	Z	-7.068	69
81	MP1B	Mx	.004	69
82	MP1C	X	4.448	3
83	MP1C	Z	-7.705	3
84	MP1C	Mx	-.002	3
85	MP1C	X	4.448	69
86	MP1C	Z	-7.705	69
87	MP1C	Mx	-.002	69
88	MP4B	X	4.081	3
89	MP4B	Z	-7.068	3
90	MP4B	Mx	.004	3
91	MP4B	X	4.081	69
92	MP4B	Z	-7.068	69
93	MP4B	Mx	.004	69
94	MP4C	X	4.448	3
95	MP4C	Z	-7.705	3
96	MP4C	Mx	-.002	3
97	MP4C	X	4.448	69
98	MP4C	Z	-7.705	69
99	MP4C	Mx	-.002	69
100	MP1A	X	2.155	3
101	MP1A	Z	-3.732	3
102	MP1A	Mx	-.001	3
103	MP1A	X	2.155	45
104	MP1A	Z	-3.732	45
105	MP1A	Mx	-.001	45
106	MP4A	X	2.155	3
107	MP4A	Z	-3.732	3
108	MP4A	Mx	-.001	3
109	MP4A	X	2.155	45
110	MP4A	Z	-3.732	45
111	MP4A	Mx	-.001	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	8.996	12
2	MP2A	Z	-5.194	12
3	MP2A	Mx	-.008	12
4	MP2A	X	8.996	60
5	MP2A	Z	-5.194	60
6	MP2A	Mx	-.008	60
7	MP2B	X	8.367	12
8	MP2B	Z	-4.831	12
9	MP2B	Mx	.004	12
10	MP2B	X	8.367	60
11	MP2B	Z	-4.831	60
12	MP2B	Mx	.004	60
13	MP2C	X	11.139	12
14	MP2C	Z	-6.431	12
15	MP2C	Mx	.009	12
16	MP2C	X	11.139	60
17	MP2C	Z	-6.431	60
18	MP2C	Mx	.009	60
19	MP2A	X	8.996	12
20	MP2A	Z	-5.194	12
21	MP2A	Mx	-.001	12
22	MP2A	X	8.996	60
23	MP2A	Z	-5.194	60
24	MP2A	Mx	-.001	60
25	MP2B	X	8.367	12
26	MP2B	Z	-4.831	12
27	MP2B	Mx	.006	12
28	MP2B	X	8.367	60
29	MP2B	Z	-4.831	60
30	MP2B	Mx	.006	60
31	MP2C	X	11.139	12
32	MP2C	Z	-6.431	12
33	MP2C	Mx	-.009	12
34	MP2C	X	11.139	60
35	MP2C	Z	-6.431	60
36	MP2C	Mx	-.009	60
37	MP3A	X	2.883	6
38	MP3A	Z	-1.665	6
39	MP3A	Mx	-.001	6
40	MP3A	X	2.883	30
41	MP3A	Z	-1.665	30
42	MP3A	Mx	-.001	30
43	MP3B	X	2.174	6
44	MP3B	Z	-1.255	6
45	MP3B	Mx	.001	6
46	MP3B	X	2.174	30
47	MP3B	Z	-1.255	30
48	MP3B	Mx	.001	30
49	MP3C	X	5.304	6
50	MP3C	Z	-3.062	6
51	MP3C	Mx	0	6
52	MP3C	X	5.304	30
53	MP3C	Z	-3.062	30
54	MP3C	Mx	0	30
55	M60	X	5.662	15
56	M60	Z	-3.269	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	3.171	36
59	MP3A	Z	-1.831	36
60	MP3A	Mx	.002	36
61	MP3B	X	2.864	36
62	MP3B	Z	-1.653	36
63	MP3B	Mx	-.002	36
64	MP3C	X	4.221	36
65	MP3C	Z	-2.437	36
66	MP3C	Mx	0	36
67	MP2A	X	2.769	36
68	MP2A	Z	-1.599	36
69	MP2A	Mx	.001	36
70	MP2B	X	2.344	36
71	MP2B	Z	-1.353	36
72	MP2B	Mx	-.001	36
73	MP2C	X	4.221	36
74	MP2C	Z	-2.437	36
75	MP2C	Mx	0	36
76	MP1B	X	6.98	3
77	MP1B	Z	-4.03	3
78	MP1B	Mx	.004	3
79	MP1B	X	6.98	69
80	MP1B	Z	-4.03	69
81	MP1B	Mx	.004	69
82	MP1C	X	7.956	3
83	MP1C	Z	-4.594	3
84	MP1C	Mx	0	3
85	MP1C	X	7.956	69
86	MP1C	Z	-4.594	69
87	MP1C	Mx	0	69
88	MP4B	X	6.98	3
89	MP4B	Z	-4.03	3
90	MP4B	Mx	.004	3
91	MP4B	X	6.98	69
92	MP4B	Z	-4.03	69
93	MP4B	Mx	.004	69
94	MP4C	X	7.956	3
95	MP4C	Z	-4.594	3
96	MP4C	Mx	0	3
97	MP4C	X	7.956	69
98	MP4C	Z	-4.594	69
99	MP4C	Mx	0	69
100	MP1A	X	5.306	3
101	MP1A	Z	-3.063	3
102	MP1A	Mx	-.003	3
103	MP1A	X	5.306	45
104	MP1A	Z	-3.063	45
105	MP1A	Mx	-.003	45
106	MP4A	X	5.306	3
107	MP4A	Z	-3.063	3
108	MP4A	Mx	-.003	3
109	MP4A	X	5.306	45
110	MP4A	Z	-3.063	45
111	MP4A	Mx	-.003	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	9.562	12
2	MP2A	Z	0	12
3	MP2A	Mx	-.005	12
4	MP2A	X	9.562	60
5	MP2A	Z	0	60
6	MP2A	Mx	-.005	60
7	MP2B	X	10.926	12
8	MP2B	Z	0	12
9	MP2B	Mx	-.000497	12
10	MP2B	X	10.926	60
11	MP2B	Z	0	60
12	MP2B	Mx	-.000497	60
13	MP2C	X	12.037	12
14	MP2C	Z	0	12
15	MP2C	Mx	.01	12
16	MP2C	X	12.037	60
17	MP2C	Z	0	60
18	MP2C	Mx	.01	60
19	MP2A	X	9.562	12
20	MP2A	Z	0	12
21	MP2A	Mx	-.005	12
22	MP2A	X	9.562	60
23	MP2A	Z	0	60
24	MP2A	Mx	-.005	60
25	MP2B	X	10.926	12
26	MP2B	Z	0	12
27	MP2B	Mx	.009	12
28	MP2B	X	10.926	60
29	MP2B	Z	0	60
30	MP2B	Mx	.009	60
31	MP2C	X	12.037	12
32	MP2C	Z	0	12
33	MP2C	Mx	-.004	12
34	MP2C	X	12.037	60
35	MP2C	Z	0	60
36	MP2C	Mx	-.004	60
37	MP3A	X	2.398	6
38	MP3A	Z	0	6
39	MP3A	Mx	-.001	6
40	MP3A	X	2.398	30
41	MP3A	Z	0	30
42	MP3A	Mx	-.001	30
43	MP3B	X	3.938	6
44	MP3B	Z	0	6
45	MP3B	Mx	.002	6
46	MP3B	X	3.938	30
47	MP3B	Z	0	30
48	MP3B	Mx	.002	30
49	MP3C	X	5.193	6
50	MP3C	Z	0	6
51	MP3C	Mx	.001	6
52	MP3C	X	5.193	30
53	MP3C	Z	0	30
54	MP3C	Mx	.001	30
55	M60	X	7.373	15
56	M60	Z	0	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	3.258	36
59	MP3A	Z	0	36
60	MP3A	Mx	.002	36
61	MP3B	X	3.925	36
62	MP3B	Z	0	36
63	MP3B	Mx	-.002	36
64	MP3C	X	4.47	36
65	MP3C	Z	0	36
66	MP3C	Mx	-.001	36
67	MP2A	X	2.639	36
68	MP2A	Z	0	36
69	MP2A	Mx	.001	36
70	MP2B	X	3.562	36
71	MP2B	Z	0	36
72	MP2B	Mx	-.001	36
73	MP2C	X	4.315	36
74	MP2C	Z	0	36
75	MP2C	Mx	-.001	36
76	MP1B	X	8.505	3
77	MP1B	Z	0	3
78	MP1B	Mx	.003	3
79	MP1B	X	8.505	69
80	MP1B	Z	0	69
81	MP1B	Mx	.003	69
82	MP1C	X	8.897	3
83	MP1C	Z	0	3
84	MP1C	Mx	.002	3
85	MP1C	X	8.897	69
86	MP1C	Z	0	69
87	MP1C	Mx	.002	69
88	MP4B	X	8.505	3
89	MP4B	Z	0	3
90	MP4B	Mx	.003	3
91	MP4B	X	8.505	69
92	MP4B	Z	0	69
93	MP4B	Mx	.003	69
94	MP4C	X	8.897	3
95	MP4C	Z	0	3
96	MP4C	Mx	.002	3
97	MP4C	X	8.897	69
98	MP4C	Z	0	69
99	MP4C	Mx	.002	69
100	MP1A	X	7.035	3
101	MP1A	Z	0	3
102	MP1A	Mx	-.004	3
103	MP1A	X	7.035	45
104	MP1A	Z	0	45
105	MP1A	Mx	-.004	45
106	MP4A	X	7.035	3
107	MP4A	Z	0	3
108	MP4A	Mx	-.004	3
109	MP4A	X	7.035	45
110	MP4A	Z	0	45
111	MP4A	Mx	-.004	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	8.996	12
2	MP2A	Z	5.194	12
3	MP2A	Mx	-.001	12
4	MP2A	X	8.996	60
5	MP2A	Z	5.194	60
6	MP2A	Mx	-.001	60
7	MP2B	X	10.805	12
8	MP2B	Z	6.238	12
9	MP2B	Mx	-.006	12
10	MP2B	X	10.805	60
11	MP2B	Z	6.238	60
12	MP2B	Mx	-.006	60
13	MP2C	X	8.996	12
14	MP2C	Z	5.194	12
15	MP2C	Mx	.008	12
16	MP2C	X	8.996	60
17	MP2C	Z	5.194	60
18	MP2C	Mx	.008	60
19	MP2A	X	8.996	12
20	MP2A	Z	5.194	12
21	MP2A	Mx	-.008	12
22	MP2A	X	8.996	60
23	MP2A	Z	5.194	60
24	MP2A	Mx	-.008	60
25	MP2B	X	10.805	12
26	MP2B	Z	6.238	12
27	MP2B	Mx	.01	12
28	MP2B	X	10.805	60
29	MP2B	Z	6.238	60
30	MP2B	Mx	.01	60
31	MP2C	X	8.996	12
32	MP2C	Z	5.194	12
33	MP2C	Mx	.001	12
34	MP2C	X	8.996	60
35	MP2C	Z	5.194	60
36	MP2C	Mx	.001	60
37	MP3A	X	2.883	6
38	MP3A	Z	1.665	6
39	MP3A	Mx	-.001	6
40	MP3A	X	2.883	30
41	MP3A	Z	1.665	30
42	MP3A	Mx	-.001	30
43	MP3B	X	4.927	6
44	MP3B	Z	2.844	6
45	MP3B	Mx	.000973	6
46	MP3B	X	4.927	30
47	MP3B	Z	2.844	30
48	MP3B	Mx	.000973	30
49	MP3C	X	2.883	6
50	MP3C	Z	1.665	6
51	MP3C	Mx	.001	6
52	MP3C	X	2.883	30
53	MP3C	Z	1.665	30
54	MP3C	Mx	.001	30
55	M60	X	7.831	15
56	M60	Z	4.521	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	3.171	36
59	MP3A	Z	1.831	36
60	MP3A	Mx	.002	36
61	MP3B	X	4.057	36
62	MP3B	Z	2.342	36
63	MP3B	Mx	-.000801	36
64	MP3C	X	3.171	36
65	MP3C	Z	1.831	36
66	MP3C	Mx	-.002	36
67	MP2A	X	2.769	36
68	MP2A	Z	1.599	36
69	MP2A	Mx	.001	36
70	MP2B	X	3.994	36
71	MP2B	Z	2.306	36
72	MP2B	Mx	-.000789	36
73	MP2C	X	2.769	36
74	MP2C	Z	1.599	36
75	MP2C	Mx	-.001	36
76	MP1B	X	7.839	3
77	MP1B	Z	4.526	3
78	MP1B	Mx	.002	3
79	MP1B	X	7.839	69
80	MP1B	Z	4.526	69
81	MP1B	Mx	.002	69
82	MP1C	X	7.202	3
83	MP1C	Z	4.158	3
84	MP1C	Mx	.004	3
85	MP1C	X	7.202	69
86	MP1C	Z	4.158	69
87	MP1C	Mx	.004	69
88	MP4B	X	7.839	3
89	MP4B	Z	4.526	3
90	MP4B	Mx	.002	3
91	MP4B	X	7.839	69
92	MP4B	Z	4.526	69
93	MP4B	Mx	.002	69
94	MP4C	X	7.202	3
95	MP4C	Z	4.158	3
96	MP4C	Mx	.004	3
97	MP4C	X	7.202	69
98	MP4C	Z	4.158	69
99	MP4C	Mx	.004	69
100	MP1A	X	5.306	3
101	MP1A	Z	3.063	3
102	MP1A	Mx	-.003	3
103	MP1A	X	5.306	45
104	MP1A	Z	3.063	45
105	MP1A	Mx	-.003	45
106	MP4A	X	5.306	3
107	MP4A	Z	3.063	3
108	MP4A	Mx	-.003	3
109	MP4A	X	5.306	45
110	MP4A	Z	3.063	45
111	MP4A	Mx	-.003	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	6.019	12
2	MP2A	Z	10.424	12
3	MP2A	Mx	.004	12
4	MP2A	X	6.019	60
5	MP2A	Z	10.424	60
6	MP2A	Mx	.004	60
7	MP2B	X	6.381	12
8	MP2B	Z	11.053	12
9	MP2B	Mx	-.009	12
10	MP2B	X	6.381	60
11	MP2B	Z	11.053	60
12	MP2B	Mx	-.009	60
13	MP2C	X	4.781	12
14	MP2C	Z	8.281	12
15	MP2C	Mx	.005	12
16	MP2C	X	4.781	60
17	MP2C	Z	8.281	60
18	MP2C	Mx	.005	60
19	MP2A	X	6.019	12
20	MP2A	Z	10.424	12
21	MP2A	Mx	-.01	12
22	MP2A	X	6.019	60
23	MP2A	Z	10.424	60
24	MP2A	Mx	-.01	60
25	MP2B	X	6.381	12
26	MP2B	Z	11.053	12
27	MP2B	Mx	.007	12
28	MP2B	X	6.381	60
29	MP2B	Z	11.053	60
30	MP2B	Mx	.007	60
31	MP2C	X	4.781	12
32	MP2C	Z	8.281	12
33	MP2C	Mx	.005	12
34	MP2C	X	4.781	60
35	MP2C	Z	8.281	60
36	MP2C	Mx	.005	60
37	MP3A	X	2.597	6
38	MP3A	Z	4.497	6
39	MP3A	Mx	-.001	6
40	MP3A	X	2.597	30
41	MP3A	Z	4.497	30
42	MP3A	Mx	-.001	30
43	MP3B	X	3.006	6
44	MP3B	Z	5.207	6
45	MP3B	Mx	-.000522	6
46	MP3B	X	3.006	30
47	MP3B	Z	5.207	30
48	MP3B	Mx	-.000522	30
49	MP3C	X	1.199	6
50	MP3C	Z	2.077	6
51	MP3C	Mx	.001	6
52	MP3C	X	1.199	30
53	MP3C	Z	2.077	30
54	MP3C	Mx	.001	30
55	M60	X	4.939	15
56	M60	Z	8.554	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	2.235	36
59	MP3A	Z	3.871	36
60	MP3A	Mx	.001	36
61	MP3B	X	2.413	36
62	MP3B	Z	4.179	36
63	MP3B	Mx	.000419	36
64	MP3C	X	1.629	36
65	MP3C	Z	2.821	36
66	MP3C	Mx	-.002	36
67	MP2A	X	2.158	36
68	MP2A	Z	3.737	36
69	MP2A	Mx	.001	36
70	MP2B	X	2.403	36
71	MP2B	Z	4.162	36
72	MP2B	Mx	.000417	36
73	MP2C	X	1.319	36
74	MP2C	Z	2.285	36
75	MP2C	Mx	-.001	36
76	MP1B	X	4.576	3
77	MP1B	Z	7.926	3
78	MP1B	Mx	-.000795	3
79	MP1B	X	4.576	69
80	MP1B	Z	7.926	69
81	MP1B	Mx	-.000795	69
82	MP1C	X	4.013	3
83	MP1C	Z	6.95	3
84	MP1C	Mx	.004	3
85	MP1C	X	4.013	69
86	MP1C	Z	6.95	69
87	MP1C	Mx	.004	69
88	MP4B	X	4.576	3
89	MP4B	Z	7.926	3
90	MP4B	Mx	-.000795	3
91	MP4B	X	4.576	69
92	MP4B	Z	7.926	69
93	MP4B	Mx	-.000795	69
94	MP4C	X	4.013	3
95	MP4C	Z	6.95	3
96	MP4C	Mx	.004	3
97	MP4C	X	4.013	69
98	MP4C	Z	6.95	69
99	MP4C	Mx	.004	69
100	MP1A	X	2.155	3
101	MP1A	Z	3.732	3
102	MP1A	Mx	-.001	3
103	MP1A	X	2.155	45
104	MP1A	Z	3.732	45
105	MP1A	Mx	-.001	45
106	MP4A	X	2.155	3
107	MP4A	Z	3.732	3
108	MP4A	Mx	-.001	3
109	MP4A	X	2.155	45
110	MP4A	Z	3.732	45
111	MP4A	Mx	-.001	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	12
2	MP2A	Z	12.862	12
3	MP2A	Mx	.009	12
4	MP2A	X	0	60
5	MP2A	Z	12.862	60
6	MP2A	Mx	.009	60
7	MP2B	X	0	12
8	MP2B	Z	11.499	12
9	MP2B	Mx	-.01	12
10	MP2B	X	0	60
11	MP2B	Z	11.499	60
12	MP2B	Mx	-.01	60
13	MP2C	X	0	12
14	MP2C	Z	10.387	12
15	MP2C	Mx	.001	12
16	MP2C	X	0	60
17	MP2C	Z	10.387	60
18	MP2C	Mx	.001	60
19	MP2A	X	0	12
20	MP2A	Z	12.862	12
21	MP2A	Mx	-.009	12
22	MP2A	X	0	60
23	MP2A	Z	12.862	60
24	MP2A	Mx	-.009	60
25	MP2B	X	0	12
26	MP2B	Z	11.499	12
27	MP2B	Mx	.002	12
28	MP2B	X	0	60
29	MP2B	Z	11.499	60
30	MP2B	Mx	.002	60
31	MP2C	X	0	12
32	MP2C	Z	10.387	12
33	MP2C	Mx	.008	12
34	MP2C	X	0	60
35	MP2C	Z	10.387	60
36	MP2C	Mx	.008	60
37	MP3A	X	0	6
38	MP3A	Z	6.125	6
39	MP3A	Mx	0	6
40	MP3A	X	0	30
41	MP3A	Z	6.125	30
42	MP3A	Mx	0	30
43	MP3B	X	0	6
44	MP3B	Z	4.585	6
45	MP3B	Mx	-.001	6
46	MP3B	X	0	30
47	MP3B	Z	4.585	30
48	MP3B	Mx	-.001	30
49	MP3C	X	0	6
50	MP3C	Z	3.33	6
51	MP3C	Mx	.001	6
52	MP3C	X	0	30
53	MP3C	Z	3.33	30
54	MP3C	Mx	.001	30
55	M60	X	0	15
56	M60	Z	9.043	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	0	36
59	MP3A	Z	4.874	36
60	MP3A	Mx	0	36
61	MP3B	X	0	36
62	MP3B	Z	4.206	36
63	MP3B	Mx	.001	36
64	MP3C	X	0	36
65	MP3C	Z	3.662	36
66	MP3C	Mx	-.002	36
67	MP2A	X	0	36
68	MP2A	Z	4.874	36
69	MP2A	Mx	0	36
70	MP2B	X	0	36
71	MP2B	Z	3.95	36
72	MP2B	Mx	.001	36
73	MP2C	X	0	36
74	MP2C	Z	3.198	36
75	MP2C	Mx	-.001	36
76	MP1B	X	0	3
77	MP1B	Z	8.707	3
78	MP1B	Mx	-.003	3
79	MP1B	X	0	69
80	MP1B	Z	8.707	69
81	MP1B	Mx	-.003	69
82	MP1C	X	0	3
83	MP1C	Z	8.316	3
84	MP1C	Mx	.004	3
85	MP1C	X	0	69
86	MP1C	Z	8.316	69
87	MP1C	Mx	.004	69
88	MP4B	X	0	3
89	MP4B	Z	8.707	3
90	MP4B	Mx	-.003	3
91	MP4B	X	0	69
92	MP4B	Z	8.707	69
93	MP4B	Mx	-.003	69
94	MP4C	X	0	3
95	MP4C	Z	8.316	3
96	MP4C	Mx	.004	3
97	MP4C	X	0	69
98	MP4C	Z	8.316	69
99	MP4C	Mx	.004	69
100	MP1A	X	0	3
101	MP1A	Z	3.401	3
102	MP1A	Mx	0	3
103	MP1A	X	0	45
104	MP1A	Z	3.401	45
105	MP1A	Mx	0	45
106	MP4A	X	0	3
107	MP4A	Z	3.401	3
108	MP4A	Mx	0	3
109	MP4A	X	0	45
110	MP4A	Z	3.401	45
111	MP4A	Mx	0	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-6.019	12
2	MP2A	Z	10.424	12
3	MP2A	Mx	.01	12
4	MP2A	X	-6.019	60
5	MP2A	Z	10.424	60
6	MP2A	Mx	.01	60
7	MP2B	X	-4.974	12
8	MP2B	Z	8.616	12
9	MP2B	Mx	-.007	12
10	MP2B	X	-4.974	60
11	MP2B	Z	8.616	60
12	MP2B	Mx	-.007	60
13	MP2C	X	-6.019	12
14	MP2C	Z	10.424	12
15	MP2C	Mx	-.004	12
16	MP2C	X	-6.019	60
17	MP2C	Z	10.424	60
18	MP2C	Mx	-.004	60
19	MP2A	X	-6.019	12
20	MP2A	Z	10.424	12
21	MP2A	Mx	-.004	12
22	MP2A	X	-6.019	60
23	MP2A	Z	10.424	60
24	MP2A	Mx	-.004	60
25	MP2B	X	-4.974	12
26	MP2B	Z	8.616	12
27	MP2B	Mx	-.002	12
28	MP2B	X	-4.974	60
29	MP2B	Z	8.616	60
30	MP2B	Mx	-.002	60
31	MP2C	X	-6.019	12
32	MP2C	Z	10.424	12
33	MP2C	Mx	.01	12
34	MP2C	X	-6.019	60
35	MP2C	Z	10.424	60
36	MP2C	Mx	.01	60
37	MP3A	X	-2.597	6
38	MP3A	Z	4.497	6
39	MP3A	Mx	.001	6
40	MP3A	X	-2.597	30
41	MP3A	Z	4.497	30
42	MP3A	Mx	.001	30
43	MP3B	X	-1.417	6
44	MP3B	Z	2.454	6
45	MP3B	Mx	-.001	6
46	MP3B	X	-1.417	30
47	MP3B	Z	2.454	30
48	MP3B	Mx	-.001	30
49	MP3C	X	-2.597	6
50	MP3C	Z	4.497	6
51	MP3C	Mx	.001	6
52	MP3C	X	-2.597	30
53	MP3C	Z	4.497	30
54	MP3C	Mx	.001	30
55	M60	X	-3.687	15
56	M60	Z	6.385	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-2.235	36
59	MP3A	Z	3.871	36
60	MP3A	Mx	-.001	36
61	MP3B	X	-1.723	36
62	MP3B	Z	2.985	36
63	MP3B	Mx	.002	36
64	MP3C	X	-2.235	36
65	MP3C	Z	3.871	36
66	MP3C	Mx	-.001	36
67	MP2A	X	-2.158	36
68	MP2A	Z	3.737	36
69	MP2A	Mx	-.001	36
70	MP2B	X	-1.45	36
71	MP2B	Z	2.512	36
72	MP2B	Mx	.001	36
73	MP2C	X	-2.158	36
74	MP2C	Z	3.737	36
75	MP2C	Mx	-.001	36
76	MP1B	X	-4.081	3
77	MP1B	Z	7.068	3
78	MP1B	Mx	-.004	3
79	MP1B	X	-4.081	69
80	MP1B	Z	7.068	69
81	MP1B	Mx	-.004	69
82	MP1C	X	-4.448	3
83	MP1C	Z	7.705	3
84	MP1C	Mx	.002	3
85	MP1C	X	-4.448	69
86	MP1C	Z	7.705	69
87	MP1C	Mx	.002	69
88	MP4B	X	-4.081	3
89	MP4B	Z	7.068	3
90	MP4B	Mx	-.004	3
91	MP4B	X	-4.081	69
92	MP4B	Z	7.068	69
93	MP4B	Mx	-.004	69
94	MP4C	X	-4.448	3
95	MP4C	Z	7.705	3
96	MP4C	Mx	.002	3
97	MP4C	X	-4.448	69
98	MP4C	Z	7.705	69
99	MP4C	Mx	.002	69
100	MP1A	X	-2.155	3
101	MP1A	Z	3.732	3
102	MP1A	Mx	.001	3
103	MP1A	X	-2.155	45
104	MP1A	Z	3.732	45
105	MP1A	Mx	.001	45
106	MP4A	X	-2.155	3
107	MP4A	Z	3.732	3
108	MP4A	Mx	.001	3
109	MP4A	X	-2.155	45
110	MP4A	Z	3.732	45
111	MP4A	Mx	.001	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-8.996	12
2	MP2A	Z	5.194	12
3	MP2A	Mx	.008	12
4	MP2A	X	-8.996	60
5	MP2A	Z	5.194	60
6	MP2A	Mx	.008	60
7	MP2B	X	-8.367	12
8	MP2B	Z	4.831	12
9	MP2B	Mx	-.004	12
10	MP2B	X	-8.367	60
11	MP2B	Z	4.831	60
12	MP2B	Mx	-.004	60
13	MP2C	X	-11.139	12
14	MP2C	Z	6.431	12
15	MP2C	Mx	-.009	12
16	MP2C	X	-11.139	60
17	MP2C	Z	6.431	60
18	MP2C	Mx	-.009	60
19	MP2A	X	-8.996	12
20	MP2A	Z	5.194	12
21	MP2A	Mx	.001	12
22	MP2A	X	-8.996	60
23	MP2A	Z	5.194	60
24	MP2A	Mx	.001	60
25	MP2B	X	-8.367	12
26	MP2B	Z	4.831	12
27	MP2B	Mx	-.006	12
28	MP2B	X	-8.367	60
29	MP2B	Z	4.831	60
30	MP2B	Mx	-.006	60
31	MP2C	X	-11.139	12
32	MP2C	Z	6.431	12
33	MP2C	Mx	.009	12
34	MP2C	X	-11.139	60
35	MP2C	Z	6.431	60
36	MP2C	Mx	.009	60
37	MP3A	X	-2.883	6
38	MP3A	Z	1.665	6
39	MP3A	Mx	.001	6
40	MP3A	X	-2.883	30
41	MP3A	Z	1.665	30
42	MP3A	Mx	.001	30
43	MP3B	X	-2.174	6
44	MP3B	Z	1.255	6
45	MP3B	Mx	-.001	6
46	MP3B	X	-2.174	30
47	MP3B	Z	1.255	30
48	MP3B	Mx	-.001	30
49	MP3C	X	-5.304	6
50	MP3C	Z	3.062	6
51	MP3C	Mx	0	6
52	MP3C	X	-5.304	30
53	MP3C	Z	3.062	30
54	MP3C	Mx	0	30
55	M60	X	-5.662	15
56	M60	Z	3.269	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-3.171	36
59	MP3A	Z	1.831	36
60	MP3A	Mx	-.002	36
61	MP3B	X	-2.864	36
62	MP3B	Z	1.653	36
63	MP3B	Mx	.002	36
64	MP3C	X	-4.221	36
65	MP3C	Z	2.437	36
66	MP3C	Mx	0	36
67	MP2A	X	-2.769	36
68	MP2A	Z	1.599	36
69	MP2A	Mx	-.001	36
70	MP2B	X	-2.344	36
71	MP2B	Z	1.353	36
72	MP2B	Mx	.001	36
73	MP2C	X	-4.221	36
74	MP2C	Z	2.437	36
75	MP2C	Mx	0	36
76	MP1B	X	-6.98	3
77	MP1B	Z	4.03	3
78	MP1B	Mx	-.004	3
79	MP1B	X	-6.98	69
80	MP1B	Z	4.03	69
81	MP1B	Mx	-.004	69
82	MP1C	X	-7.956	3
83	MP1C	Z	4.594	3
84	MP1C	Mx	0	3
85	MP1C	X	-7.956	69
86	MP1C	Z	4.594	69
87	MP1C	Mx	0	69
88	MP4B	X	-6.98	3
89	MP4B	Z	4.03	3
90	MP4B	Mx	-.004	3
91	MP4B	X	-6.98	69
92	MP4B	Z	4.03	69
93	MP4B	Mx	-.004	69
94	MP4C	X	-7.956	3
95	MP4C	Z	4.594	3
96	MP4C	Mx	0	3
97	MP4C	X	-7.956	69
98	MP4C	Z	4.594	69
99	MP4C	Mx	0	69
100	MP1A	X	-5.306	3
101	MP1A	Z	3.063	3
102	MP1A	Mx	.003	3
103	MP1A	X	-5.306	45
104	MP1A	Z	3.063	45
105	MP1A	Mx	.003	45
106	MP4A	X	-5.306	3
107	MP4A	Z	3.063	3
108	MP4A	Mx	.003	3
109	MP4A	X	-5.306	45
110	MP4A	Z	3.063	45
111	MP4A	Mx	.003	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-9.562	12
2	MP2A	Z	0	12
3	MP2A	Mx	.005	12
4	MP2A	X	-9.562	60
5	MP2A	Z	0	60
6	MP2A	Mx	.005	60
7	MP2B	X	-10.926	12
8	MP2B	Z	0	12
9	MP2B	Mx	.000497	12
10	MP2B	X	-10.926	60
11	MP2B	Z	0	60
12	MP2B	Mx	.000497	60
13	MP2C	X	-12.037	12
14	MP2C	Z	0	12
15	MP2C	Mx	-.01	12
16	MP2C	X	-12.037	60
17	MP2C	Z	0	60
18	MP2C	Mx	-.01	60
19	MP2A	X	-9.562	12
20	MP2A	Z	0	12
21	MP2A	Mx	.005	12
22	MP2A	X	-9.562	60
23	MP2A	Z	0	60
24	MP2A	Mx	.005	60
25	MP2B	X	-10.926	12
26	MP2B	Z	0	12
27	MP2B	Mx	-.009	12
28	MP2B	X	-10.926	60
29	MP2B	Z	0	60
30	MP2B	Mx	-.009	60
31	MP2C	X	-12.037	12
32	MP2C	Z	0	12
33	MP2C	Mx	.004	12
34	MP2C	X	-12.037	60
35	MP2C	Z	0	60
36	MP2C	Mx	.004	60
37	MP3A	X	-2.398	6
38	MP3A	Z	0	6
39	MP3A	Mx	.001	6
40	MP3A	X	-2.398	30
41	MP3A	Z	0	30
42	MP3A	Mx	.001	30
43	MP3B	X	-3.938	6
44	MP3B	Z	0	6
45	MP3B	Mx	-.002	6
46	MP3B	X	-3.938	30
47	MP3B	Z	0	30
48	MP3B	Mx	-.002	30
49	MP3C	X	-5.193	6
50	MP3C	Z	0	6
51	MP3C	Mx	-.001	6
52	MP3C	X	-5.193	30
53	MP3C	Z	0	30
54	MP3C	Mx	-.001	30
55	M60	X	-7.373	15
56	M60	Z	0	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-3.258	36
59	MP3A	Z	0	36
60	MP3A	Mx	-.002	36
61	MP3B	X	-3.925	36
62	MP3B	Z	0	36
63	MP3B	Mx	.002	36
64	MP3C	X	-4.47	36
65	MP3C	Z	0	36
66	MP3C	Mx	.001	36
67	MP2A	X	-2.639	36
68	MP2A	Z	0	36
69	MP2A	Mx	-.001	36
70	MP2B	X	-3.562	36
71	MP2B	Z	0	36
72	MP2B	Mx	.001	36
73	MP2C	X	-4.315	36
74	MP2C	Z	0	36
75	MP2C	Mx	.001	36
76	MP1B	X	-8.505	3
77	MP1B	Z	0	3
78	MP1B	Mx	-.003	3
79	MP1B	X	-8.505	69
80	MP1B	Z	0	69
81	MP1B	Mx	-.003	69
82	MP1C	X	-8.897	3
83	MP1C	Z	0	3
84	MP1C	Mx	-.002	3
85	MP1C	X	-8.897	69
86	MP1C	Z	0	69
87	MP1C	Mx	-.002	69
88	MP4B	X	-8.505	3
89	MP4B	Z	0	3
90	MP4B	Mx	-.003	3
91	MP4B	X	-8.505	69
92	MP4B	Z	0	69
93	MP4B	Mx	-.003	69
94	MP4C	X	-8.897	3
95	MP4C	Z	0	3
96	MP4C	Mx	-.002	3
97	MP4C	X	-8.897	69
98	MP4C	Z	0	69
99	MP4C	Mx	-.002	69
100	MP1A	X	-7.035	3
101	MP1A	Z	0	3
102	MP1A	Mx	.004	3
103	MP1A	X	-7.035	45
104	MP1A	Z	0	45
105	MP1A	Mx	.004	45
106	MP4A	X	-7.035	3
107	MP4A	Z	0	3
108	MP4A	Mx	.004	3
109	MP4A	X	-7.035	45
110	MP4A	Z	0	45
111	MP4A	Mx	.004	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-8.996	12
2	MP2A	Z	-5.194	12
3	MP2A	Mx	.001	12
4	MP2A	X	-8.996	60
5	MP2A	Z	-5.194	60
6	MP2A	Mx	.001	60
7	MP2B	X	-10.805	12
8	MP2B	Z	-6.238	12
9	MP2B	Mx	.006	12
10	MP2B	X	-10.805	60
11	MP2B	Z	-6.238	60
12	MP2B	Mx	.006	60
13	MP2C	X	-8.996	12
14	MP2C	Z	-5.194	12
15	MP2C	Mx	-.008	12
16	MP2C	X	-8.996	60
17	MP2C	Z	-5.194	60
18	MP2C	Mx	-.008	60
19	MP2A	X	-8.996	12
20	MP2A	Z	-5.194	12
21	MP2A	Mx	.008	12
22	MP2A	X	-8.996	60
23	MP2A	Z	-5.194	60
24	MP2A	Mx	.008	60
25	MP2B	X	-10.805	12
26	MP2B	Z	-6.238	12
27	MP2B	Mx	-.01	12
28	MP2B	X	-10.805	60
29	MP2B	Z	-6.238	60
30	MP2B	Mx	-.01	60
31	MP2C	X	-8.996	12
32	MP2C	Z	-5.194	12
33	MP2C	Mx	-.001	12
34	MP2C	X	-8.996	60
35	MP2C	Z	-5.194	60
36	MP2C	Mx	-.001	60
37	MP3A	X	-2.883	6
38	MP3A	Z	-1.665	6
39	MP3A	Mx	.001	6
40	MP3A	X	-2.883	30
41	MP3A	Z	-1.665	30
42	MP3A	Mx	.001	30
43	MP3B	X	-4.927	6
44	MP3B	Z	-2.844	6
45	MP3B	Mx	-.000973	6
46	MP3B	X	-4.927	30
47	MP3B	Z	-2.844	30
48	MP3B	Mx	-.000973	30
49	MP3C	X	-2.883	6
50	MP3C	Z	-1.665	6
51	MP3C	Mx	-.001	6
52	MP3C	X	-2.883	30
53	MP3C	Z	-1.665	30
54	MP3C	Mx	-.001	30
55	M60	X	-7.831	15
56	M60	Z	-4.521	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-3.171	36
59	MP3A	Z	-1.831	36
60	MP3A	Mx	-.002	36
61	MP3B	X	-4.057	36
62	MP3B	Z	-2.342	36
63	MP3B	Mx	.000801	36
64	MP3C	X	-3.171	36
65	MP3C	Z	-1.831	36
66	MP3C	Mx	.002	36
67	MP2A	X	-2.769	36
68	MP2A	Z	-1.599	36
69	MP2A	Mx	-.001	36
70	MP2B	X	-3.994	36
71	MP2B	Z	-2.306	36
72	MP2B	Mx	.000789	36
73	MP2C	X	-2.769	36
74	MP2C	Z	-1.599	36
75	MP2C	Mx	.001	36
76	MP1B	X	-7.839	3
77	MP1B	Z	-4.526	3
78	MP1B	Mx	-.002	3
79	MP1B	X	-7.839	69
80	MP1B	Z	-4.526	69
81	MP1B	Mx	-.002	69
82	MP1C	X	-7.202	3
83	MP1C	Z	-4.158	3
84	MP1C	Mx	-.004	3
85	MP1C	X	-7.202	69
86	MP1C	Z	-4.158	69
87	MP1C	Mx	-.004	69
88	MP4B	X	-7.839	3
89	MP4B	Z	-4.526	3
90	MP4B	Mx	-.002	3
91	MP4B	X	-7.839	69
92	MP4B	Z	-4.526	69
93	MP4B	Mx	-.002	69
94	MP4C	X	-7.202	3
95	MP4C	Z	-4.158	3
96	MP4C	Mx	-.004	3
97	MP4C	X	-7.202	69
98	MP4C	Z	-4.158	69
99	MP4C	Mx	-.004	69
100	MP1A	X	-5.306	3
101	MP1A	Z	-3.063	3
102	MP1A	Mx	.003	3
103	MP1A	X	-5.306	45
104	MP1A	Z	-3.063	45
105	MP1A	Mx	.003	45
106	MP4A	X	-5.306	3
107	MP4A	Z	-3.063	3
108	MP4A	Mx	.003	3
109	MP4A	X	-5.306	45
110	MP4A	Z	-3.063	45
111	MP4A	Mx	.003	45

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-6.019	12
2	MP2A	Z	-10.424	12
3	MP2A	Mx	-.004	12
4	MP2A	X	-6.019	60
5	MP2A	Z	-10.424	60
6	MP2A	Mx	-.004	60
7	MP2B	X	-6.381	12
8	MP2B	Z	-11.053	12
9	MP2B	Mx	.009	12
10	MP2B	X	-6.381	60
11	MP2B	Z	-11.053	60
12	MP2B	Mx	.009	60
13	MP2C	X	-4.781	12
14	MP2C	Z	-8.281	12
15	MP2C	Mx	-.005	12
16	MP2C	X	-4.781	60
17	MP2C	Z	-8.281	60
18	MP2C	Mx	-.005	60
19	MP2A	X	-6.019	12
20	MP2A	Z	-10.424	12
21	MP2A	Mx	.01	12
22	MP2A	X	-6.019	60
23	MP2A	Z	-10.424	60
24	MP2A	Mx	.01	60
25	MP2B	X	-6.381	12
26	MP2B	Z	-11.053	12
27	MP2B	Mx	-.007	12
28	MP2B	X	-6.381	60
29	MP2B	Z	-11.053	60
30	MP2B	Mx	-.007	60
31	MP2C	X	-4.781	12
32	MP2C	Z	-8.281	12
33	MP2C	Mx	-.005	12
34	MP2C	X	-4.781	60
35	MP2C	Z	-8.281	60
36	MP2C	Mx	-.005	60
37	MP3A	X	-2.597	6
38	MP3A	Z	-4.497	6
39	MP3A	Mx	.001	6
40	MP3A	X	-2.597	30
41	MP3A	Z	-4.497	30
42	MP3A	Mx	.001	30
43	MP3B	X	-3.006	6
44	MP3B	Z	-5.207	6
45	MP3B	Mx	.000522	6
46	MP3B	X	-3.006	30
47	MP3B	Z	-5.207	30
48	MP3B	Mx	.000522	30
49	MP3C	X	-1.199	6
50	MP3C	Z	-2.077	6
51	MP3C	Mx	-.001	6
52	MP3C	X	-1.199	30
53	MP3C	Z	-2.077	30
54	MP3C	Mx	-.001	30
55	M60	X	-4.939	15
56	M60	Z	-8.554	15
57	M60	Mx	0	15

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
58	MP3A	X	-2.235	36
59	MP3A	Z	-3.871	36
60	MP3A	Mx	-.001	36
61	MP3B	X	-2.413	36
62	MP3B	Z	-4.179	36
63	MP3B	Mx	-.000419	36
64	MP3C	X	-1.629	36
65	MP3C	Z	-2.821	36
66	MP3C	Mx	.002	36
67	MP2A	X	-2.158	36
68	MP2A	Z	-3.737	36
69	MP2A	Mx	-.001	36
70	MP2B	X	-2.403	36
71	MP2B	Z	-4.162	36
72	MP2B	Mx	-.000417	36
73	MP2C	X	-1.319	36
74	MP2C	Z	-2.285	36
75	MP2C	Mx	.001	36
76	MP1B	X	-4.576	3
77	MP1B	Z	-7.926	3
78	MP1B	Mx	.000795	3
79	MP1B	X	-4.576	69
80	MP1B	Z	-7.926	69
81	MP1B	Mx	.000795	69
82	MP1C	X	-4.013	3
83	MP1C	Z	-6.95	3
84	MP1C	Mx	-.004	3
85	MP1C	X	-4.013	69
86	MP1C	Z	-6.95	69
87	MP1C	Mx	-.004	69
88	MP4B	X	-4.576	3
89	MP4B	Z	-7.926	3
90	MP4B	Mx	.000795	3
91	MP4B	X	-4.576	69
92	MP4B	Z	-7.926	69
93	MP4B	Mx	.000795	69
94	MP4C	X	-4.013	3
95	MP4C	Z	-6.95	3
96	MP4C	Mx	-.004	3
97	MP4C	X	-4.013	69
98	MP4C	Z	-6.95	69
99	MP4C	Mx	-.004	69
100	MP1A	X	-2.155	3
101	MP1A	Z	-3.732	3
102	MP1A	Mx	.001	3
103	MP1A	X	-2.155	45
104	MP1A	Z	-3.732	45
105	MP1A	Mx	.001	45
106	MP4A	X	-2.155	3
107	MP4A	Z	-3.732	3
108	MP4A	Mx	.001	3
109	MP4A	X	-2.155	45
110	MP4A	Z	-3.732	45
111	MP4A	Mx	.001	45

Member Point Loads (BLC 77 : Lm1)

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M99	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M104	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M37A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M37A	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	Y	-6.515	-6.515	0	%100
2	M4	Y	-9.538	-9.538	0	%100
3	M10	Y	-9.538	-9.538	0	%100
4	MP4A	Y	-4.938	-4.938	0	%100
5	MP2A	Y	-4.938	-4.938	0	%100
6	MP1A	Y	-4.938	-4.938	0	%100
7	M43	Y	-9.538	-9.538	0	%100
8	M46	Y	-10.048	-10.048	0	%100
9	M51B	Y	-5.573	-5.573	0	%100
10	M52B	Y	-5.573	-5.573	0	%100
11	M76	Y	-10.048	-10.048	0	%100
12	M77	Y	-10.048	-10.048	0	%100
13	M80	Y	-10.048	-10.048	0	%100
14	M84	Y	-10.048	-10.048	0	%100
15	M85	Y	-10.048	-10.048	0	%100
16	M91	Y	-10.048	-10.048	0	%100
17	MP3A	Y	-4.938	-4.938	0	%100
18	M36	Y	-6.515	-6.515	0	%100
19	M37A	Y	-6.515	-6.515	0	%100
20	M38A	Y	-9.538	-9.538	0	%100
21	M39	Y	-9.538	-9.538	0	%100
22	M40	Y	-9.538	-9.538	0	%100
23	M41	Y	-10.048	-10.048	0	%100
24	M42	Y	-5.573	-5.573	0	%100
25	M43A	Y	-5.573	-5.573	0	%100
26	M47	Y	-10.048	-10.048	0	%100
27	M48	Y	-10.048	-10.048	0	%100
28	M50A	Y	-10.048	-10.048	0	%100
29	M52A	Y	-10.048	-10.048	0	%100
30	M53	Y	-10.048	-10.048	0	%100
31	M55	Y	-10.048	-10.048	0	%100
32	M60	Y	-4.938	-4.938	0	%100
33	M64	Y	-9.538	-9.538	0	%100
34	M65	Y	-9.538	-9.538	0	%100
35	M66	Y	-9.538	-9.538	0	%100
36	M67	Y	-10.048	-10.048	0	%100
37	M68	Y	-5.573	-5.573	0	%100
38	M69	Y	-5.573	-5.573	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
39	M73	Y	-10.048	-10.048	0	%100
40	M74	Y	-10.048	-10.048	0	%100
41	M76A	Y	-10.048	-10.048	0	%100
42	M78	Y	-10.048	-10.048	0	%100
43	M79A	Y	-10.048	-10.048	0	%100
44	M81	Y	-10.048	-10.048	0	%100
45	MP4C	Y	-4.938	-4.938	0	%100
46	MP2C	Y	-4.938	-4.938	0	%100
47	MP1C	Y	-4.938	-4.938	0	%100
48	MP3C	Y	-4.938	-4.938	0	%100
49	MP4B	Y	-4.938	-4.938	0	%100
50	MP2B	Y	-4.938	-4.938	0	%100
51	MP1B	Y	-4.938	-4.938	0	%100
52	MP3B	Y	-4.938	-4.938	0	%100
53	M102	Y	-6.515	-6.515	0	%100
54	M107	Y	-6.515	-6.515	0	%100
55	M108	Y	-6.515	-6.515	0	%100
56	M119	Y	-7.556	-7.556	0	%100
57	M120	Y	-7.556	-7.556	0	%100
58	M121A	Y	-7.556	-7.556	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-14.139	-14.139	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-12.544	-12.544	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-9.904	-9.904	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-9.904	-9.904	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-9.904	-9.904	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	-12.544	-12.544	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	-25.02	-25.02	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	-3.475	-3.475	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	-3.475	-3.475	0	%100
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	-6.371	-6.371	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	-6.71	-6.71	0	%100
27	M84	X	0	0	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	-6.371	-6.371	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	-6.71	-6.71	0	%100
33	MP3A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
34	MP3A	Z	-9.904	-9.904	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	-3.535	-3.535	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	-3.535	-3.535	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	-11.118	-11.118	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-3.136	-3.136	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-3.136	-3.136	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	-6.255	-6.255	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	-3.475	-3.475	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	-13.9	-13.9	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-18.765	-18.765	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-6.371	-6.371	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	-6.71	-6.71	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	-18.765	-18.765	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-25.484	-25.484	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	-26.841	-26.841	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	-8.099	-8.099	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	-11.118	-11.118	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	-3.136	-3.136	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	-3.136	-3.136	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	-6.255	-6.255	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	-13.9	-13.9	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	-3.475	-3.475	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	-18.765	-18.765	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	-25.484	-25.484	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	-26.841	-26.841	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	-18.765	-18.765	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	-6.371	-6.371	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	-6.71	-6.71	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-9.904	-9.904	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[in,%]	End Location[in,%]
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-9.904	-9.904	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-9.904	-9.904	0	%100
95	MP3C	X	0	0	0	%100
96	MP3C	Z	-9.904	-9.904	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-9.904	-9.904	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-9.904	-9.904	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-9.904	-9.904	0	%100
103	MP3B	X	0	0	0	%100
104	MP3B	Z	-9.904	-9.904	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	-14.139	-14.139	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	-3.535	-3.535	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	-3.535	-3.535	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	-13.471	-13.471	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	-3.368	-3.368	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	-3.368	-3.368	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[in,%]	End Location[in,%]
1	M1	X	5.302	5.302	0	%100
2	M1	Z	-9.184	-9.184	0	%100
3	M4	X	1.853	1.853	0	%100
4	M4	Z	-3.21	-3.21	0	%100
5	M10	X	4.704	4.704	0	%100
6	M10	Z	-8.148	-8.148	0	%100
7	MP4A	X	4.952	4.952	0	%100
8	MP4A	Z	-8.577	-8.577	0	%100
9	MP2A	X	4.952	4.952	0	%100
10	MP2A	Z	-8.577	-8.577	0	%100
11	MP1A	X	4.952	4.952	0	%100
12	MP1A	Z	-8.577	-8.577	0	%100
13	M43	X	4.704	4.704	0	%100
14	M43	Z	-8.148	-8.148	0	%100
15	M46	X	9.383	9.383	0	%100
16	M46	Z	-16.251	-16.251	0	%100
17	M51B	X	5.213	5.213	0	%100
18	M51B	Z	-9.028	-9.028	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	3.128	3.128	0	%100
22	M76	Z	-5.417	-5.417	0	%100
23	M77	X	9.556	9.556	0	%100
24	M77	Z	-16.552	-16.552	0	%100
25	M80	X	10.065	10.065	0	%100
26	M80	Z	-17.434	-17.434	0	%100
27	M84	X	3.128	3.128	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[in,%]	End Location[in,%]
28	M84	Z	-5.417	-5.417	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	4.952	4.952	0	%100
34	MP3A	Z	-8.577	-8.577	0	%100
35	M36	X	5.302	5.302	0	%100
36	M36	Z	-9.184	-9.184	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	1.853	1.853	0	%100
40	M38A	Z	-3.21	-3.21	0	%100
41	M39	X	4.704	4.704	0	%100
42	M39	Z	-8.148	-8.148	0	%100
43	M40	X	4.704	4.704	0	%100
44	M40	Z	-8.148	-8.148	0	%100
45	M41	X	9.383	9.383	0	%100
46	M41	Z	-16.251	-16.251	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	5.213	5.213	0	%100
50	M43A	Z	-9.028	-9.028	0	%100
51	M47	X	3.128	3.128	0	%100
52	M47	Z	-5.417	-5.417	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	3.128	3.128	0	%100
58	M52A	Z	-5.417	-5.417	0	%100
59	M53	X	9.556	9.556	0	%100
60	M53	Z	-16.552	-16.552	0	%100
61	M55	X	10.065	10.065	0	%100
62	M55	Z	-17.434	-17.434	0	%100
63	M60	X	4.049	4.049	0	%100
64	M60	Z	-7.014	-7.014	0	%100
65	M64	X	7.412	7.412	0	%100
66	M64	Z	-12.838	-12.838	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	5.213	5.213	0	%100
74	M68	Z	-9.028	-9.028	0	%100
75	M69	X	5.213	5.213	0	%100
76	M69	Z	-9.028	-9.028	0	%100
77	M73	X	12.51	12.51	0	%100
78	M73	Z	-21.668	-21.668	0	%100
79	M74	X	9.556	9.556	0	%100
80	M74	Z	-16.552	-16.552	0	%100
81	M76A	X	10.065	10.065	0	%100
82	M76A	Z	-17.434	-17.434	0	%100
83	M78	X	12.51	12.51	0	%100
84	M78	Z	-21.668	-21.668	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[in,%]	End Location[in,%]
85	M79A	X	9.556	9.556	0	%100
86	M79A	Z	-16.552	-16.552	0	%100
87	M81	X	10.065	10.065	0	%100
88	M81	Z	-17.434	-17.434	0	%100
89	MP4C	X	4.952	4.952	0	%100
90	MP4C	Z	-8.577	-8.577	0	%100
91	MP2C	X	4.952	4.952	0	%100
92	MP2C	Z	-8.577	-8.577	0	%100
93	MP1C	X	4.952	4.952	0	%100
94	MP1C	Z	-8.577	-8.577	0	%100
95	MP3C	X	4.952	4.952	0	%100
96	MP3C	Z	-8.577	-8.577	0	%100
97	MP4B	X	4.952	4.952	0	%100
98	MP4B	Z	-8.577	-8.577	0	%100
99	MP2B	X	4.952	4.952	0	%100
100	MP2B	Z	-8.577	-8.577	0	%100
101	MP1B	X	4.952	4.952	0	%100
102	MP1B	Z	-8.577	-8.577	0	%100
103	MP3B	X	4.952	4.952	0	%100
104	MP3B	Z	-8.577	-8.577	0	%100
105	M102	X	5.302	5.302	0	%100
106	M102	Z	-9.184	-9.184	0	%100
107	M107	X	5.302	5.302	0	%100
108	M107	Z	-9.184	-9.184	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	5.051	5.051	0	%100
112	M119	Z	-8.749	-8.749	0	%100
113	M120	X	5.051	5.051	0	%100
114	M120	Z	-8.749	-8.749	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	0	0	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[in,%]	End Location[in,%]
1	M1	X	3.061	3.061	0	%100
2	M1	Z	-1.767	-1.767	0	%100
3	M4	X	9.629	9.629	0	%100
4	M4	Z	-5.559	-5.559	0	%100
5	M10	X	2.716	2.716	0	%100
6	M10	Z	-1.568	-1.568	0	%100
7	MP4A	X	8.577	8.577	0	%100
8	MP4A	Z	-4.952	-4.952	0	%100
9	MP2A	X	8.577	8.577	0	%100
10	MP2A	Z	-4.952	-4.952	0	%100
11	MP1A	X	8.577	8.577	0	%100
12	MP1A	Z	-4.952	-4.952	0	%100
13	M43	X	2.716	2.716	0	%100
14	M43	Z	-1.568	-1.568	0	%100
15	M46	X	5.417	5.417	0	%100
16	M46	Z	-3.128	-3.128	0	%100
17	M51B	X	12.038	12.038	0	%100
18	M51B	Z	-6.95	-6.95	0	%100
19	M52B	X	3.009	3.009	0	%100
20	M52B	Z	-1.738	-1.738	0	%100
21	M76	X	16.251	16.251	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[in,%]	End Location[in,%]
22	M76	Z	-9.383	-9.383	0	%100
23	M77	X	22.069	22.069	0	%100
24	M77	Z	-12.742	-12.742	0	%100
25	M80	X	23.245	23.245	0	%100
26	M80	Z	-13.421	-13.421	0	%100
27	M84	X	16.251	16.251	0	%100
28	M84	Z	-9.383	-9.383	0	%100
29	M85	X	5.517	5.517	0	%100
30	M85	Z	-3.185	-3.185	0	%100
31	M91	X	5.811	5.811	0	%100
32	M91	Z	-3.355	-3.355	0	%100
33	MP3A	X	8.577	8.577	0	%100
34	MP3A	Z	-4.952	-4.952	0	%100
35	M36	X	12.245	12.245	0	%100
36	M36	Z	-7.07	-7.07	0	%100
37	M37A	X	3.061	3.061	0	%100
38	M37A	Z	-1.767	-1.767	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	10.863	10.863	0	%100
42	M39	Z	-6.272	-6.272	0	%100
43	M40	X	10.863	10.863	0	%100
44	M40	Z	-6.272	-6.272	0	%100
45	M41	X	21.668	21.668	0	%100
46	M41	Z	-12.51	-12.51	0	%100
47	M42	X	3.009	3.009	0	%100
48	M42	Z	-1.738	-1.738	0	%100
49	M43A	X	3.009	3.009	0	%100
50	M43A	Z	-1.738	-1.738	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	5.517	5.517	0	%100
54	M48	Z	-3.185	-3.185	0	%100
55	M50A	X	5.811	5.811	0	%100
56	M50A	Z	-3.355	-3.355	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	5.517	5.517	0	%100
60	M53	Z	-3.185	-3.185	0	%100
61	M55	X	5.811	5.811	0	%100
62	M55	Z	-3.355	-3.355	0	%100
63	M60	X	7.014	7.014	0	%100
64	M60	Z	-4.049	-4.049	0	%100
65	M64	X	9.629	9.629	0	%100
66	M64	Z	-5.559	-5.559	0	%100
67	M65	X	2.716	2.716	0	%100
68	M65	Z	-1.568	-1.568	0	%100
69	M66	X	2.716	2.716	0	%100
70	M66	Z	-1.568	-1.568	0	%100
71	M67	X	5.417	5.417	0	%100
72	M67	Z	-3.128	-3.128	0	%100
73	M68	X	3.009	3.009	0	%100
74	M68	Z	-1.738	-1.738	0	%100
75	M69	X	12.038	12.038	0	%100
76	M69	Z	-6.95	-6.95	0	%100
77	M73	X	16.251	16.251	0	%100
78	M73	Z	-9.383	-9.383	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[in,%]	End Location[in,%]
79	M74	X	5.517	5.517	0	%100
80	M74	Z	-3.185	-3.185	0	%100
81	M76A	X	5.811	5.811	0	%100
82	M76A	Z	-3.355	-3.355	0	%100
83	M78	X	16.251	16.251	0	%100
84	M78	Z	-9.383	-9.383	0	%100
85	M79A	X	22.069	22.069	0	%100
86	M79A	Z	-12.742	-12.742	0	%100
87	M81	X	23.245	23.245	0	%100
88	M81	Z	-13.421	-13.421	0	%100
89	MP4C	X	8.577	8.577	0	%100
90	MP4C	Z	-4.952	-4.952	0	%100
91	MP2C	X	8.577	8.577	0	%100
92	MP2C	Z	-4.952	-4.952	0	%100
93	MP1C	X	8.577	8.577	0	%100
94	MP1C	Z	-4.952	-4.952	0	%100
95	MP3C	X	8.577	8.577	0	%100
96	MP3C	Z	-4.952	-4.952	0	%100
97	MP4B	X	8.577	8.577	0	%100
98	MP4B	Z	-4.952	-4.952	0	%100
99	MP2B	X	8.577	8.577	0	%100
100	MP2B	Z	-4.952	-4.952	0	%100
101	MP1B	X	8.577	8.577	0	%100
102	MP1B	Z	-4.952	-4.952	0	%100
103	MP3B	X	8.577	8.577	0	%100
104	MP3B	Z	-4.952	-4.952	0	%100
105	M102	X	3.061	3.061	0	%100
106	M102	Z	-1.767	-1.767	0	%100
107	M107	X	12.245	12.245	0	%100
108	M107	Z	-7.07	-7.07	0	%100
109	M108	X	3.061	3.061	0	%100
110	M108	Z	-1.767	-1.767	0	%100
111	M119	X	2.916	2.916	0	%100
112	M119	Z	-1.684	-1.684	0	%100
113	M120	X	11.666	11.666	0	%100
114	M120	Z	-6.735	-6.735	0	%100
115	M121A	X	2.916	2.916	0	%100
116	M121A	Z	-1.684	-1.684	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	14.824	14.824	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	9.904	9.904	0	%100
8	MP4A	Z	0	0	0	%100
9	MP2A	X	9.904	9.904	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	9.904	9.904	0	%100
12	MP1A	Z	0	0	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	0	0	0	%100
15	M46	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
16	M46	Z	0	0	0	%100
17	M51B	X	10.425	10.425	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	10.425	10.425	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	25.02	25.02	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	19.113	19.113	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	20.131	20.131	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	25.02	25.02	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	19.113	19.113	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	20.131	20.131	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	9.904	9.904	0	%100
34	MP3A	Z	0	0	0	%100
35	M36	X	10.604	10.604	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	10.604	10.604	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	3.706	3.706	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	9.408	9.408	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	9.408	9.408	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	18.765	18.765	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	10.425	10.425	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	0	0	0	%100
51	M47	X	6.255	6.255	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	19.113	19.113	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	20.131	20.131	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	6.255	6.255	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	0	0	0	%100
63	M60	X	8.099	8.099	0	%100
64	M60	Z	0	0	0	%100
65	M64	X	3.706	3.706	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	9.408	9.408	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	9.408	9.408	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	18.765	18.765	0	%100
72	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
73	M68	X	0	0	0	%100
74	M68	Z	0	0	0	%100
75	M69	X	10.425	10.425	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	6.255	6.255	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M78	X	6.255	6.255	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	19.113	19.113	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	20.131	20.131	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	9.904	9.904	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	9.904	9.904	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	9.904	9.904	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3C	X	9.904	9.904	0	%100
96	MP3C	Z	0	0	0	%100
97	MP4B	X	9.904	9.904	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	9.904	9.904	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	9.904	9.904	0	%100
102	MP1B	Z	0	0	0	%100
103	MP3B	X	9.904	9.904	0	%100
104	MP3B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	10.604	10.604	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	10.604	10.604	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	10.103	10.103	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	10.103	10.103	0	%100
116	M121A	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[in,%]	End Location[in,%]
1	M1	X	3.061	3.061	0	%100
2	M1	Z	1.767	1.767	0	%100
3	M4	X	9.629	9.629	0	%100
4	M4	Z	5.559	5.559	0	%100
5	M10	X	2.716	2.716	0	%100
6	M10	Z	1.568	1.568	0	%100
7	MP4A	X	8.577	8.577	0	%100
8	MP4A	Z	4.952	4.952	0	%100
9	MP2A	X	8.577	8.577	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[in,%]	End Location[in,%]
10	MP2A	Z	4.952	4.952	0	%100
11	MP1A	X	8.577	8.577	0	%100
12	MP1A	Z	4.952	4.952	0	%100
13	M43	X	2.716	2.716	0	%100
14	M43	Z	1.568	1.568	0	%100
15	M46	X	5.417	5.417	0	%100
16	M46	Z	3.128	3.128	0	%100
17	M51B	X	3.009	3.009	0	%100
18	M51B	Z	1.738	1.738	0	%100
19	M52B	X	12.038	12.038	0	%100
20	M52B	Z	6.95	6.95	0	%100
21	M76	X	16.251	16.251	0	%100
22	M76	Z	9.383	9.383	0	%100
23	M77	X	5.517	5.517	0	%100
24	M77	Z	3.185	3.185	0	%100
25	M80	X	5.811	5.811	0	%100
26	M80	Z	3.355	3.355	0	%100
27	M84	X	16.251	16.251	0	%100
28	M84	Z	9.383	9.383	0	%100
29	M85	X	22.069	22.069	0	%100
30	M85	Z	12.742	12.742	0	%100
31	M91	X	23.245	23.245	0	%100
32	M91	Z	13.421	13.421	0	%100
33	MP3A	X	8.577	8.577	0	%100
34	MP3A	Z	4.952	4.952	0	%100
35	M36	X	3.061	3.061	0	%100
36	M36	Z	1.767	1.767	0	%100
37	M37A	X	12.245	12.245	0	%100
38	M37A	Z	7.07	7.07	0	%100
39	M38A	X	9.629	9.629	0	%100
40	M38A	Z	5.559	5.559	0	%100
41	M39	X	2.716	2.716	0	%100
42	M39	Z	1.568	1.568	0	%100
43	M40	X	2.716	2.716	0	%100
44	M40	Z	1.568	1.568	0	%100
45	M41	X	5.417	5.417	0	%100
46	M41	Z	3.128	3.128	0	%100
47	M42	X	12.038	12.038	0	%100
48	M42	Z	6.95	6.95	0	%100
49	M43A	X	3.009	3.009	0	%100
50	M43A	Z	1.738	1.738	0	%100
51	M47	X	16.251	16.251	0	%100
52	M47	Z	9.383	9.383	0	%100
53	M48	X	22.069	22.069	0	%100
54	M48	Z	12.742	12.742	0	%100
55	M50A	X	23.245	23.245	0	%100
56	M50A	Z	13.421	13.421	0	%100
57	M52A	X	16.251	16.251	0	%100
58	M52A	Z	9.383	9.383	0	%100
59	M53	X	5.517	5.517	0	%100
60	M53	Z	3.185	3.185	0	%100
61	M55	X	5.811	5.811	0	%100
62	M55	Z	3.355	3.355	0	%100
63	M60	X	7.014	7.014	0	%100
64	M60	Z	4.049	4.049	0	%100
65	M64	X	0	0	0	%100
66	M64	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[in,%]	End Location[in,%]
67	M65	X	10.863	10.863	0	%100
68	M65	Z	6.272	6.272	0	%100
69	M66	X	10.863	10.863	0	%100
70	M66	Z	6.272	6.272	0	%100
71	M67	X	21.668	21.668	0	%100
72	M67	Z	12.51	12.51	0	%100
73	M68	X	3.009	3.009	0	%100
74	M68	Z	1.738	1.738	0	%100
75	M69	X	3.009	3.009	0	%100
76	M69	Z	1.738	1.738	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	5.517	5.517	0	%100
80	M74	Z	3.185	3.185	0	%100
81	M76A	X	5.811	5.811	0	%100
82	M76A	Z	3.355	3.355	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	5.517	5.517	0	%100
86	M79A	Z	3.185	3.185	0	%100
87	M81	X	5.811	5.811	0	%100
88	M81	Z	3.355	3.355	0	%100
89	MP4C	X	8.577	8.577	0	%100
90	MP4C	Z	4.952	4.952	0	%100
91	MP2C	X	8.577	8.577	0	%100
92	MP2C	Z	4.952	4.952	0	%100
93	MP1C	X	8.577	8.577	0	%100
94	MP1C	Z	4.952	4.952	0	%100
95	MP3C	X	8.577	8.577	0	%100
96	MP3C	Z	4.952	4.952	0	%100
97	MP4B	X	8.577	8.577	0	%100
98	MP4B	Z	4.952	4.952	0	%100
99	MP2B	X	8.577	8.577	0	%100
100	MP2B	Z	4.952	4.952	0	%100
101	MP1B	X	8.577	8.577	0	%100
102	MP1B	Z	4.952	4.952	0	%100
103	MP3B	X	8.577	8.577	0	%100
104	MP3B	Z	4.952	4.952	0	%100
105	M102	X	3.061	3.061	0	%100
106	M102	Z	1.767	1.767	0	%100
107	M107	X	3.061	3.061	0	%100
108	M107	Z	1.767	1.767	0	%100
109	M108	X	12.245	12.245	0	%100
110	M108	Z	7.07	7.07	0	%100
111	M119	X	2.916	2.916	0	%100
112	M119	Z	1.684	1.684	0	%100
113	M120	X	2.916	2.916	0	%100
114	M120	Z	1.684	1.684	0	%100
115	M121A	X	11.666	11.666	0	%100
116	M121A	Z	6.735	6.735	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[in,%]	End Location[in,%]
1	M1	X	5.302	5.302	0	%100
2	M1	Z	9.184	9.184	0	%100
3	M4	X	1.853	1.853	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[in,%]	End Location[in,%]
4	M4	Z	3.21	3.21	0	%100
5	M10	X	4.704	4.704	0	%100
6	M10	Z	8.148	8.148	0	%100
7	MP4A	X	4.952	4.952	0	%100
8	MP4A	Z	8.577	8.577	0	%100
9	MP2A	X	4.952	4.952	0	%100
10	MP2A	Z	8.577	8.577	0	%100
11	MP1A	X	4.952	4.952	0	%100
12	MP1A	Z	8.577	8.577	0	%100
13	M43	X	4.704	4.704	0	%100
14	M43	Z	8.148	8.148	0	%100
15	M46	X	9.383	9.383	0	%100
16	M46	Z	16.251	16.251	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	5.213	5.213	0	%100
20	M52B	Z	9.028	9.028	0	%100
21	M76	X	3.128	3.128	0	%100
22	M76	Z	5.417	5.417	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	3.128	3.128	0	%100
28	M84	Z	5.417	5.417	0	%100
29	M85	X	9.556	9.556	0	%100
30	M85	Z	16.552	16.552	0	%100
31	M91	X	10.065	10.065	0	%100
32	M91	Z	17.434	17.434	0	%100
33	MP3A	X	4.952	4.952	0	%100
34	MP3A	Z	8.577	8.577	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	5.302	5.302	0	%100
38	M37A	Z	9.184	9.184	0	%100
39	M38A	X	7.412	7.412	0	%100
40	M38A	Z	12.838	12.838	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	5.213	5.213	0	%100
48	M42	Z	9.028	9.028	0	%100
49	M43A	X	5.213	5.213	0	%100
50	M43A	Z	9.028	9.028	0	%100
51	M47	X	12.51	12.51	0	%100
52	M47	Z	21.668	21.668	0	%100
53	M48	X	9.556	9.556	0	%100
54	M48	Z	16.552	16.552	0	%100
55	M50A	X	10.065	10.065	0	%100
56	M50A	Z	17.434	17.434	0	%100
57	M52A	X	12.51	12.51	0	%100
58	M52A	Z	21.668	21.668	0	%100
59	M53	X	9.556	9.556	0	%100
60	M53	Z	16.552	16.552	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[in,%]	End Location[in,%]
61	M55	X	10.065	10.065	0	%100
62	M55	Z	17.434	17.434	0	%100
63	M60	X	4.049	4.049	0	%100
64	M60	Z	7.014	7.014	0	%100
65	M64	X	1.853	1.853	0	%100
66	M64	Z	3.21	3.21	0	%100
67	M65	X	4.704	4.704	0	%100
68	M65	Z	8.148	8.148	0	%100
69	M66	X	4.704	4.704	0	%100
70	M66	Z	8.148	8.148	0	%100
71	M67	X	9.383	9.383	0	%100
72	M67	Z	16.251	16.251	0	%100
73	M68	X	5.213	5.213	0	%100
74	M68	Z	9.028	9.028	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	3.128	3.128	0	%100
78	M73	Z	5.417	5.417	0	%100
79	M74	X	9.556	9.556	0	%100
80	M74	Z	16.552	16.552	0	%100
81	M76A	X	10.065	10.065	0	%100
82	M76A	Z	17.434	17.434	0	%100
83	M78	X	3.128	3.128	0	%100
84	M78	Z	5.417	5.417	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	4.952	4.952	0	%100
90	MP4C	Z	8.577	8.577	0	%100
91	MP2C	X	4.952	4.952	0	%100
92	MP2C	Z	8.577	8.577	0	%100
93	MP1C	X	4.952	4.952	0	%100
94	MP1C	Z	8.577	8.577	0	%100
95	MP3C	X	4.952	4.952	0	%100
96	MP3C	Z	8.577	8.577	0	%100
97	MP4B	X	4.952	4.952	0	%100
98	MP4B	Z	8.577	8.577	0	%100
99	MP2B	X	4.952	4.952	0	%100
100	MP2B	Z	8.577	8.577	0	%100
101	MP1B	X	4.952	4.952	0	%100
102	MP1B	Z	8.577	8.577	0	%100
103	MP3B	X	4.952	4.952	0	%100
104	MP3B	Z	8.577	8.577	0	%100
105	M102	X	5.302	5.302	0	%100
106	M102	Z	9.184	9.184	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	5.302	5.302	0	%100
110	M108	Z	9.184	9.184	0	%100
111	M119	X	5.051	5.051	0	%100
112	M119	Z	8.749	8.749	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	5.051	5.051	0	%100
116	M121A	Z	8.749	8.749	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	14.139	14.139	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	12.544	12.544	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	9.904	9.904	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	9.904	9.904	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	9.904	9.904	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	12.544	12.544	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	25.02	25.02	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	3.475	3.475	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	3.475	3.475	0	%100
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	6.371	6.371	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	6.71	6.71	0	%100
27	M84	X	0	0	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	6.371	6.371	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	6.71	6.71	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	9.904	9.904	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	3.535	3.535	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	3.535	3.535	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	11.118	11.118	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	3.136	3.136	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	3.136	3.136	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	6.255	6.255	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	3.475	3.475	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	13.9	13.9	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	18.765	18.765	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	6.371	6.371	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	6.71	6.71	0	%100
57	M52A	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[in,%]	End Location[in,%]
58	M52A	Z	18.765	18.765	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	25.484	25.484	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	26.841	26.841	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	8.099	8.099	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	11.118	11.118	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	3.136	3.136	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	3.136	3.136	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	6.255	6.255	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	13.9	13.9	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	3.475	3.475	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	18.765	18.765	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	25.484	25.484	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	26.841	26.841	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	18.765	18.765	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	6.371	6.371	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	6.71	6.71	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	9.904	9.904	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	9.904	9.904	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	9.904	9.904	0	%100
95	MP3C	X	0	0	0	%100
96	MP3C	Z	9.904	9.904	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	9.904	9.904	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	9.904	9.904	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	9.904	9.904	0	%100
103	MP3B	X	0	0	0	%100
104	MP3B	Z	9.904	9.904	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	14.139	14.139	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	3.535	3.535	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	3.535	3.535	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	13.471	13.471	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	3.368	3.368	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[in,%]	End Location[in,%]
115	M121A	X	0	0	0	%100
116	M121A	Z	3.368	3.368	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[in,%]	End Location[in,%]
1	M1	X	-5.302	-5.302	0	%100
2	M1	Z	9.184	9.184	0	%100
3	M4	X	-1.853	-1.853	0	%100
4	M4	Z	3.21	3.21	0	%100
5	M10	X	-4.704	-4.704	0	%100
6	M10	Z	8.148	8.148	0	%100
7	MP4A	X	-4.952	-4.952	0	%100
8	MP4A	Z	8.577	8.577	0	%100
9	MP2A	X	-4.952	-4.952	0	%100
10	MP2A	Z	8.577	8.577	0	%100
11	MP1A	X	-4.952	-4.952	0	%100
12	MP1A	Z	8.577	8.577	0	%100
13	M43	X	-4.704	-4.704	0	%100
14	M43	Z	8.148	8.148	0	%100
15	M46	X	-9.383	-9.383	0	%100
16	M46	Z	16.251	16.251	0	%100
17	M51B	X	-5.213	-5.213	0	%100
18	M51B	Z	9.028	9.028	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	-3.128	-3.128	0	%100
22	M76	Z	5.417	5.417	0	%100
23	M77	X	-9.556	-9.556	0	%100
24	M77	Z	16.552	16.552	0	%100
25	M80	X	-10.065	-10.065	0	%100
26	M80	Z	17.434	17.434	0	%100
27	M84	X	-3.128	-3.128	0	%100
28	M84	Z	5.417	5.417	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	-4.952	-4.952	0	%100
34	MP3A	Z	8.577	8.577	0	%100
35	M36	X	-5.302	-5.302	0	%100
36	M36	Z	9.184	9.184	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	-1.853	-1.853	0	%100
40	M38A	Z	3.21	3.21	0	%100
41	M39	X	-4.704	-4.704	0	%100
42	M39	Z	8.148	8.148	0	%100
43	M40	X	-4.704	-4.704	0	%100
44	M40	Z	8.148	8.148	0	%100
45	M41	X	-9.383	-9.383	0	%100
46	M41	Z	16.251	16.251	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	-5.213	-5.213	0	%100
50	M43A	Z	9.028	9.028	0	%100
51	M47	X	-3.128	-3.128	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[in,%]	End Location[in,%]
52	M47	Z	5.417	5.417	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	-3.128	-3.128	0	%100
58	M52A	Z	5.417	5.417	0	%100
59	M53	X	-9.556	-9.556	0	%100
60	M53	Z	16.552	16.552	0	%100
61	M55	X	-10.065	-10.065	0	%100
62	M55	Z	17.434	17.434	0	%100
63	M60	X	-4.049	-4.049	0	%100
64	M60	Z	7.014	7.014	0	%100
65	M64	X	-7.412	-7.412	0	%100
66	M64	Z	12.838	12.838	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	-5.213	-5.213	0	%100
74	M68	Z	9.028	9.028	0	%100
75	M69	X	-5.213	-5.213	0	%100
76	M69	Z	9.028	9.028	0	%100
77	M73	X	-12.51	-12.51	0	%100
78	M73	Z	21.668	21.668	0	%100
79	M74	X	-9.556	-9.556	0	%100
80	M74	Z	16.552	16.552	0	%100
81	M76A	X	-10.065	-10.065	0	%100
82	M76A	Z	17.434	17.434	0	%100
83	M78	X	-12.51	-12.51	0	%100
84	M78	Z	21.668	21.668	0	%100
85	M79A	X	-9.556	-9.556	0	%100
86	M79A	Z	16.552	16.552	0	%100
87	M81	X	-10.065	-10.065	0	%100
88	M81	Z	17.434	17.434	0	%100
89	MP4C	X	-4.952	-4.952	0	%100
90	MP4C	Z	8.577	8.577	0	%100
91	MP2C	X	-4.952	-4.952	0	%100
92	MP2C	Z	8.577	8.577	0	%100
93	MP1C	X	-4.952	-4.952	0	%100
94	MP1C	Z	8.577	8.577	0	%100
95	MP3C	X	-4.952	-4.952	0	%100
96	MP3C	Z	8.577	8.577	0	%100
97	MP4B	X	-4.952	-4.952	0	%100
98	MP4B	Z	8.577	8.577	0	%100
99	MP2B	X	-4.952	-4.952	0	%100
100	MP2B	Z	8.577	8.577	0	%100
101	MP1B	X	-4.952	-4.952	0	%100
102	MP1B	Z	8.577	8.577	0	%100
103	MP3B	X	-4.952	-4.952	0	%100
104	MP3B	Z	8.577	8.577	0	%100
105	M102	X	-5.302	-5.302	0	%100
106	M102	Z	9.184	9.184	0	%100
107	M107	X	-5.302	-5.302	0	%100
108	M107	Z	9.184	9.184	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[in,%]	End Location[in,%]
109	M108	X	0	0	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	-5.051	-5.051	0	%100
112	M119	Z	8.749	8.749	0	%100
113	M120	X	-5.051	-5.051	0	%100
114	M120	Z	8.749	8.749	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	0	0	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[in,%]	End Location[in,%]
1	M1	X	-3.061	-3.061	0	%100
2	M1	Z	1.767	1.767	0	%100
3	M4	X	-9.629	-9.629	0	%100
4	M4	Z	5.559	5.559	0	%100
5	M10	X	-2.716	-2.716	0	%100
6	M10	Z	1.568	1.568	0	%100
7	MP4A	X	-8.577	-8.577	0	%100
8	MP4A	Z	4.952	4.952	0	%100
9	MP2A	X	-8.577	-8.577	0	%100
10	MP2A	Z	4.952	4.952	0	%100
11	MP1A	X	-8.577	-8.577	0	%100
12	MP1A	Z	4.952	4.952	0	%100
13	M43	X	-2.716	-2.716	0	%100
14	M43	Z	1.568	1.568	0	%100
15	M46	X	-5.417	-5.417	0	%100
16	M46	Z	3.128	3.128	0	%100
17	M51B	X	-12.038	-12.038	0	%100
18	M51B	Z	6.95	6.95	0	%100
19	M52B	X	-3.009	-3.009	0	%100
20	M52B	Z	1.738	1.738	0	%100
21	M76	X	-16.251	-16.251	0	%100
22	M76	Z	9.383	9.383	0	%100
23	M77	X	-22.069	-22.069	0	%100
24	M77	Z	12.742	12.742	0	%100
25	M80	X	-23.245	-23.245	0	%100
26	M80	Z	13.421	13.421	0	%100
27	M84	X	-16.251	-16.251	0	%100
28	M84	Z	9.383	9.383	0	%100
29	M85	X	-5.517	-5.517	0	%100
30	M85	Z	3.185	3.185	0	%100
31	M91	X	-5.811	-5.811	0	%100
32	M91	Z	3.355	3.355	0	%100
33	MP3A	X	-8.577	-8.577	0	%100
34	MP3A	Z	4.952	4.952	0	%100
35	M36	X	-12.245	-12.245	0	%100
36	M36	Z	7.07	7.07	0	%100
37	M37A	X	-3.061	-3.061	0	%100
38	M37A	Z	1.767	1.767	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	-10.863	-10.863	0	%100
42	M39	Z	6.272	6.272	0	%100
43	M40	X	-10.863	-10.863	0	%100
44	M40	Z	6.272	6.272	0	%100
45	M41	X	-21.668	-21.668	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[in,%]	End Location[in,%]
46	M41	Z	12.51	12.51	0	%100
47	M42	X	-3.009	-3.009	0	%100
48	M42	Z	1.738	1.738	0	%100
49	M43A	X	-3.009	-3.009	0	%100
50	M43A	Z	1.738	1.738	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-5.517	-5.517	0	%100
54	M48	Z	3.185	3.185	0	%100
55	M50A	X	-5.811	-5.811	0	%100
56	M50A	Z	3.355	3.355	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	-5.517	-5.517	0	%100
60	M53	Z	3.185	3.185	0	%100
61	M55	X	-5.811	-5.811	0	%100
62	M55	Z	3.355	3.355	0	%100
63	M60	X	-7.014	-7.014	0	%100
64	M60	Z	4.049	4.049	0	%100
65	M64	X	-9.629	-9.629	0	%100
66	M64	Z	5.559	5.559	0	%100
67	M65	X	-2.716	-2.716	0	%100
68	M65	Z	1.568	1.568	0	%100
69	M66	X	-2.716	-2.716	0	%100
70	M66	Z	1.568	1.568	0	%100
71	M67	X	-5.417	-5.417	0	%100
72	M67	Z	3.128	3.128	0	%100
73	M68	X	-3.009	-3.009	0	%100
74	M68	Z	1.738	1.738	0	%100
75	M69	X	-12.038	-12.038	0	%100
76	M69	Z	6.95	6.95	0	%100
77	M73	X	-16.251	-16.251	0	%100
78	M73	Z	9.383	9.383	0	%100
79	M74	X	-5.517	-5.517	0	%100
80	M74	Z	3.185	3.185	0	%100
81	M76A	X	-5.811	-5.811	0	%100
82	M76A	Z	3.355	3.355	0	%100
83	M78	X	-16.251	-16.251	0	%100
84	M78	Z	9.383	9.383	0	%100
85	M79A	X	-22.069	-22.069	0	%100
86	M79A	Z	12.742	12.742	0	%100
87	M81	X	-23.245	-23.245	0	%100
88	M81	Z	13.421	13.421	0	%100
89	MP4C	X	-8.577	-8.577	0	%100
90	MP4C	Z	4.952	4.952	0	%100
91	MP2C	X	-8.577	-8.577	0	%100
92	MP2C	Z	4.952	4.952	0	%100
93	MP1C	X	-8.577	-8.577	0	%100
94	MP1C	Z	4.952	4.952	0	%100
95	MP3C	X	-8.577	-8.577	0	%100
96	MP3C	Z	4.952	4.952	0	%100
97	MP4B	X	-8.577	-8.577	0	%100
98	MP4B	Z	4.952	4.952	0	%100
99	MP2B	X	-8.577	-8.577	0	%100
100	MP2B	Z	4.952	4.952	0	%100
101	MP1B	X	-8.577	-8.577	0	%100
102	MP1B	Z	4.952	4.952	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[in,%]	End Location[in,%]
103	MP3B	X	-8.577	-8.577	0	%100
104	MP3B	Z	4.952	4.952	0	%100
105	M102	X	-3.061	-3.061	0	%100
106	M102	Z	1.767	1.767	0	%100
107	M107	X	-12.245	-12.245	0	%100
108	M107	Z	7.07	7.07	0	%100
109	M108	X	-3.061	-3.061	0	%100
110	M108	Z	1.767	1.767	0	%100
111	M119	X	-2.916	-2.916	0	%100
112	M119	Z	1.684	1.684	0	%100
113	M120	X	-11.666	-11.666	0	%100
114	M120	Z	6.735	6.735	0	%100
115	M121A	X	-2.916	-2.916	0	%100
116	M121A	Z	1.684	1.684	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-14.824	-14.824	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	-9.904	-9.904	0	%100
8	MP4A	Z	0	0	0	%100
9	MP2A	X	-9.904	-9.904	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-9.904	-9.904	0	%100
12	MP1A	Z	0	0	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	0	0	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	0	0	0	%100
17	M51B	X	-10.425	-10.425	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	-10.425	-10.425	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	-25.02	-25.02	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	-19.113	-19.113	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	-20.131	-20.131	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	-25.02	-25.02	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	-19.113	-19.113	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	-20.131	-20.131	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	-9.904	-9.904	0	%100
34	MP3A	Z	0	0	0	%100
35	M36	X	-10.604	-10.604	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	-10.604	-10.604	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	-3.706	-3.706	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[in,%]	End Location[in,%]
40	M38A	Z	0	0	0	%100
41	M39	X	-9.408	-9.408	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	-9.408	-9.408	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	-18.765	-18.765	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	-10.425	-10.425	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	0	0	0	%100
51	M47	X	-6.255	-6.255	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-19.113	-19.113	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	-20.131	-20.131	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	-6.255	-6.255	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	0	0	0	%100
63	M60	X	-8.099	-8.099	0	%100
64	M60	Z	0	0	0	%100
65	M64	X	-3.706	-3.706	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	-9.408	-9.408	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-9.408	-9.408	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	-18.765	-18.765	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	0	0	0	%100
75	M69	X	-10.425	-10.425	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	-6.255	-6.255	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M78	X	-6.255	-6.255	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	-19.113	-19.113	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	-20.131	-20.131	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	-9.904	-9.904	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-9.904	-9.904	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-9.904	-9.904	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3C	X	-9.904	-9.904	0	%100
96	MP3C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
97	MP4B	X	-9.904	-9.904	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-9.904	-9.904	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-9.904	-9.904	0	%100
102	MP1B	Z	0	0	0	%100
103	MP3B	X	-9.904	-9.904	0	%100
104	MP3B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	-10.604	-10.604	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	-10.604	-10.604	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	-10.103	-10.103	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	-10.103	-10.103	0	%100
116	M121A	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[in,%]	End Location[in,%]
1	M1	X	-3.061	-3.061	0	%100
2	M1	Z	-1.767	-1.767	0	%100
3	M4	X	-9.629	-9.629	0	%100
4	M4	Z	-5.559	-5.559	0	%100
5	M10	X	-2.716	-2.716	0	%100
6	M10	Z	-1.568	-1.568	0	%100
7	MP4A	X	-8.577	-8.577	0	%100
8	MP4A	Z	-4.952	-4.952	0	%100
9	MP2A	X	-8.577	-8.577	0	%100
10	MP2A	Z	-4.952	-4.952	0	%100
11	MP1A	X	-8.577	-8.577	0	%100
12	MP1A	Z	-4.952	-4.952	0	%100
13	M43	X	-2.716	-2.716	0	%100
14	M43	Z	-1.568	-1.568	0	%100
15	M46	X	-5.417	-5.417	0	%100
16	M46	Z	-3.128	-3.128	0	%100
17	M51B	X	-3.009	-3.009	0	%100
18	M51B	Z	-1.738	-1.738	0	%100
19	M52B	X	-12.038	-12.038	0	%100
20	M52B	Z	-6.95	-6.95	0	%100
21	M76	X	-16.251	-16.251	0	%100
22	M76	Z	-9.383	-9.383	0	%100
23	M77	X	-5.517	-5.517	0	%100
24	M77	Z	-3.185	-3.185	0	%100
25	M80	X	-5.811	-5.811	0	%100
26	M80	Z	-3.355	-3.355	0	%100
27	M84	X	-16.251	-16.251	0	%100
28	M84	Z	-9.383	-9.383	0	%100
29	M85	X	-22.069	-22.069	0	%100
30	M85	Z	-12.742	-12.742	0	%100
31	M91	X	-23.245	-23.245	0	%100
32	M91	Z	-13.421	-13.421	0	%100
33	MP3A	X	-8.577	-8.577	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[in,%]	End Location[in,%]
34	MP3A	Z	-4.952	-4.952	0	%100
35	M36	X	-3.061	-3.061	0	%100
36	M36	Z	-1.767	-1.767	0	%100
37	M37A	X	-12.245	-12.245	0	%100
38	M37A	Z	-7.07	-7.07	0	%100
39	M38A	X	-9.629	-9.629	0	%100
40	M38A	Z	-5.559	-5.559	0	%100
41	M39	X	-2.716	-2.716	0	%100
42	M39	Z	-1.568	-1.568	0	%100
43	M40	X	-2.716	-2.716	0	%100
44	M40	Z	-1.568	-1.568	0	%100
45	M41	X	-5.417	-5.417	0	%100
46	M41	Z	-3.128	-3.128	0	%100
47	M42	X	-12.038	-12.038	0	%100
48	M42	Z	-6.95	-6.95	0	%100
49	M43A	X	-3.009	-3.009	0	%100
50	M43A	Z	-1.738	-1.738	0	%100
51	M47	X	-16.251	-16.251	0	%100
52	M47	Z	-9.383	-9.383	0	%100
53	M48	X	-22.069	-22.069	0	%100
54	M48	Z	-12.742	-12.742	0	%100
55	M50A	X	-23.245	-23.245	0	%100
56	M50A	Z	-13.421	-13.421	0	%100
57	M52A	X	-16.251	-16.251	0	%100
58	M52A	Z	-9.383	-9.383	0	%100
59	M53	X	-5.517	-5.517	0	%100
60	M53	Z	-3.185	-3.185	0	%100
61	M55	X	-5.811	-5.811	0	%100
62	M55	Z	-3.355	-3.355	0	%100
63	M60	X	-7.014	-7.014	0	%100
64	M60	Z	-4.049	-4.049	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	-10.863	-10.863	0	%100
68	M65	Z	-6.272	-6.272	0	%100
69	M66	X	-10.863	-10.863	0	%100
70	M66	Z	-6.272	-6.272	0	%100
71	M67	X	-21.668	-21.668	0	%100
72	M67	Z	-12.51	-12.51	0	%100
73	M68	X	-3.009	-3.009	0	%100
74	M68	Z	-1.738	-1.738	0	%100
75	M69	X	-3.009	-3.009	0	%100
76	M69	Z	-1.738	-1.738	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	-5.517	-5.517	0	%100
80	M74	Z	-3.185	-3.185	0	%100
81	M76A	X	-5.811	-5.811	0	%100
82	M76A	Z	-3.355	-3.355	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	-5.517	-5.517	0	%100
86	M79A	Z	-3.185	-3.185	0	%100
87	M81	X	-5.811	-5.811	0	%100
88	M81	Z	-3.355	-3.355	0	%100
89	MP4C	X	-8.577	-8.577	0	%100
90	MP4C	Z	-4.952	-4.952	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[in,%]	End Location[in,%]
91	MP2C	X	-8.577	-8.577	0	%100
92	MP2C	Z	-4.952	-4.952	0	%100
93	MP1C	X	-8.577	-8.577	0	%100
94	MP1C	Z	-4.952	-4.952	0	%100
95	MP3C	X	-8.577	-8.577	0	%100
96	MP3C	Z	-4.952	-4.952	0	%100
97	MP4B	X	-8.577	-8.577	0	%100
98	MP4B	Z	-4.952	-4.952	0	%100
99	MP2B	X	-8.577	-8.577	0	%100
100	MP2B	Z	-4.952	-4.952	0	%100
101	MP1B	X	-8.577	-8.577	0	%100
102	MP1B	Z	-4.952	-4.952	0	%100
103	MP3B	X	-8.577	-8.577	0	%100
104	MP3B	Z	-4.952	-4.952	0	%100
105	M102	X	-3.061	-3.061	0	%100
106	M102	Z	-1.767	-1.767	0	%100
107	M107	X	-3.061	-3.061	0	%100
108	M107	Z	-1.767	-1.767	0	%100
109	M108	X	-12.245	-12.245	0	%100
110	M108	Z	-7.07	-7.07	0	%100
111	M119	X	-2.916	-2.916	0	%100
112	M119	Z	-1.684	-1.684	0	%100
113	M120	X	-2.916	-2.916	0	%100
114	M120	Z	-1.684	-1.684	0	%100
115	M121A	X	-11.666	-11.666	0	%100
116	M121A	Z	-6.735	-6.735	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[in,%]	End Location[in,%]
1	M1	X	-5.302	-5.302	0	%100
2	M1	Z	-9.184	-9.184	0	%100
3	M4	X	-1.853	-1.853	0	%100
4	M4	Z	-3.21	-3.21	0	%100
5	M10	X	-4.704	-4.704	0	%100
6	M10	Z	-8.148	-8.148	0	%100
7	MP4A	X	-4.952	-4.952	0	%100
8	MP4A	Z	-8.577	-8.577	0	%100
9	MP2A	X	-4.952	-4.952	0	%100
10	MP2A	Z	-8.577	-8.577	0	%100
11	MP1A	X	-4.952	-4.952	0	%100
12	MP1A	Z	-8.577	-8.577	0	%100
13	M43	X	-4.704	-4.704	0	%100
14	M43	Z	-8.148	-8.148	0	%100
15	M46	X	-9.383	-9.383	0	%100
16	M46	Z	-16.251	-16.251	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	-5.213	-5.213	0	%100
20	M52B	Z	-9.028	-9.028	0	%100
21	M76	X	-3.128	-3.128	0	%100
22	M76	Z	-5.417	-5.417	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	-3.128	-3.128	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[in,%]	End Location[in,%]
28	M84	Z	-5.417	-5.417	0	%100
29	M85	X	-9.556	-9.556	0	%100
30	M85	Z	-16.552	-16.552	0	%100
31	M91	X	-10.065	-10.065	0	%100
32	M91	Z	-17.434	-17.434	0	%100
33	MP3A	X	-4.952	-4.952	0	%100
34	MP3A	Z	-8.577	-8.577	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	-5.302	-5.302	0	%100
38	M37A	Z	-9.184	-9.184	0	%100
39	M38A	X	-7.412	-7.412	0	%100
40	M38A	Z	-12.838	-12.838	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	-5.213	-5.213	0	%100
48	M42	Z	-9.028	-9.028	0	%100
49	M43A	X	-5.213	-5.213	0	%100
50	M43A	Z	-9.028	-9.028	0	%100
51	M47	X	-12.51	-12.51	0	%100
52	M47	Z	-21.668	-21.668	0	%100
53	M48	X	-9.556	-9.556	0	%100
54	M48	Z	-16.552	-16.552	0	%100
55	M50A	X	-10.065	-10.065	0	%100
56	M50A	Z	-17.434	-17.434	0	%100
57	M52A	X	-12.51	-12.51	0	%100
58	M52A	Z	-21.668	-21.668	0	%100
59	M53	X	-9.556	-9.556	0	%100
60	M53	Z	-16.552	-16.552	0	%100
61	M55	X	-10.065	-10.065	0	%100
62	M55	Z	-17.434	-17.434	0	%100
63	M60	X	-4.049	-4.049	0	%100
64	M60	Z	-7.014	-7.014	0	%100
65	M64	X	-1.853	-1.853	0	%100
66	M64	Z	-3.21	-3.21	0	%100
67	M65	X	-4.704	-4.704	0	%100
68	M65	Z	-8.148	-8.148	0	%100
69	M66	X	-4.704	-4.704	0	%100
70	M66	Z	-8.148	-8.148	0	%100
71	M67	X	-9.383	-9.383	0	%100
72	M67	Z	-16.251	-16.251	0	%100
73	M68	X	-5.213	-5.213	0	%100
74	M68	Z	-9.028	-9.028	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	-3.128	-3.128	0	%100
78	M73	Z	-5.417	-5.417	0	%100
79	M74	X	-9.556	-9.556	0	%100
80	M74	Z	-16.552	-16.552	0	%100
81	M76A	X	-10.065	-10.065	0	%100
82	M76A	Z	-17.434	-17.434	0	%100
83	M78	X	-3.128	-3.128	0	%100
84	M78	Z	-5.417	-5.417	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[in,%]	End Location[in,%]
85	M79A	X	0	0	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	-4.952	-4.952	0	%100
90	MP4C	Z	-8.577	-8.577	0	%100
91	MP2C	X	-4.952	-4.952	0	%100
92	MP2C	Z	-8.577	-8.577	0	%100
93	MP1C	X	-4.952	-4.952	0	%100
94	MP1C	Z	-8.577	-8.577	0	%100
95	MP3C	X	-4.952	-4.952	0	%100
96	MP3C	Z	-8.577	-8.577	0	%100
97	MP4B	X	-4.952	-4.952	0	%100
98	MP4B	Z	-8.577	-8.577	0	%100
99	MP2B	X	-4.952	-4.952	0	%100
100	MP2B	Z	-8.577	-8.577	0	%100
101	MP1B	X	-4.952	-4.952	0	%100
102	MP1B	Z	-8.577	-8.577	0	%100
103	MP3B	X	-4.952	-4.952	0	%100
104	MP3B	Z	-8.577	-8.577	0	%100
105	M102	X	-5.302	-5.302	0	%100
106	M102	Z	-9.184	-9.184	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	-5.302	-5.302	0	%100
110	M108	Z	-9.184	-9.184	0	%100
111	M119	X	-5.051	-5.051	0	%100
112	M119	Z	-8.749	-8.749	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	-5.051	-5.051	0	%100
116	M121A	Z	-8.749	-8.749	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-4.195	-4.195	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.452	-3.452	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-3.381	-3.381	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-3.381	-3.381	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-3.381	-3.381	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	-3.452	-3.452	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	-5.402	-5.402	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	-.995	-.995	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	-.995	-.995	0	%100
21	M76	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[in,%]	End Location[in,%]
22	M76	Z	0	0	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	-1.348	-1.348	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	-1.407	-1.407	0	%100
27	M84	X	0	0	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	-1.348	-1.348	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	-1.407	-1.407	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-3.381	-3.381	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	-1.049	-1.049	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	-1.049	-1.049	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	-3.176	-3.176	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-.863	-.863	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-.863	-.863	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	-1.35	-1.35	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	-.995	-.995	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	-3.979	-3.979	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-3.985	-3.985	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-1.348	-1.348	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	-1.407	-1.407	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	-3.985	-3.985	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-5.393	-5.393	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	-5.629	-5.629	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	-2.781	-2.781	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	-3.176	-3.176	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	-.863	-.863	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	-.863	-.863	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	-1.35	-1.35	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	-3.979	-3.979	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	-.995	-.995	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	-3.985	-3.985	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[in,%]	End Location[in,%]
79	M74	X	0	0	0	%100
80	M74	Z	-5.393	-5.393	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	-5.629	-5.629	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	-3.985	-3.985	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	-1.348	-1.348	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	-1.407	-1.407	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-3.381	-3.381	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-3.381	-3.381	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-3.381	-3.381	0	%100
95	MP3C	X	0	0	0	%100
96	MP3C	Z	-3.381	-3.381	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-3.381	-3.381	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-3.381	-3.381	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-3.381	-3.381	0	%100
103	MP3B	X	0	0	0	%100
104	MP3B	Z	-3.381	-3.381	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	-4.195	-4.195	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	-1.049	-1.049	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	-1.049	-1.049	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	-3.415	-3.415	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	-.854	-.854	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	-.854	-.854	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[in,%]	End Location[in,%]
1	M1	X	1.573	1.573	0	%100
2	M1	Z	-2.725	-2.725	0	%100
3	M4	X	.529	.529	0	%100
4	M4	Z	-.917	-.917	0	%100
5	M10	X	1.295	1.295	0	%100
6	M10	Z	-2.242	-2.242	0	%100
7	MP4A	X	1.69	1.69	0	%100
8	MP4A	Z	-2.928	-2.928	0	%100
9	MP2A	X	1.69	1.69	0	%100
10	MP2A	Z	-2.928	-2.928	0	%100
11	MP1A	X	1.69	1.69	0	%100
12	MP1A	Z	-2.928	-2.928	0	%100
13	M43	X	1.295	1.295	0	%100
14	M43	Z	-2.242	-2.242	0	%100
15	M46	X	2.026	2.026	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[in,%]	End Location[in,%]
16	M46	Z	-3.509	-3.509	0	%100
17	M51B	X	1.492	1.492	0	%100
18	M51B	Z	-2.584	-2.584	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	.664	.664	0	%100
22	M76	Z	-1.15	-1.15	0	%100
23	M77	X	2.023	2.023	0	%100
24	M77	Z	-3.503	-3.503	0	%100
25	M80	X	2.111	2.111	0	%100
26	M80	Z	-3.656	-3.656	0	%100
27	M84	X	.664	.664	0	%100
28	M84	Z	-1.15	-1.15	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	1.69	1.69	0	%100
34	MP3A	Z	-2.928	-2.928	0	%100
35	M36	X	1.573	1.573	0	%100
36	M36	Z	-2.725	-2.725	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	.529	.529	0	%100
40	M38A	Z	-.917	-.917	0	%100
41	M39	X	1.295	1.295	0	%100
42	M39	Z	-2.242	-2.242	0	%100
43	M40	X	1.295	1.295	0	%100
44	M40	Z	-2.242	-2.242	0	%100
45	M41	X	2.026	2.026	0	%100
46	M41	Z	-3.509	-3.509	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	1.492	1.492	0	%100
50	M43A	Z	-2.584	-2.584	0	%100
51	M47	X	.664	.664	0	%100
52	M47	Z	-1.15	-1.15	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	.664	.664	0	%100
58	M52A	Z	-1.15	-1.15	0	%100
59	M53	X	2.023	2.023	0	%100
60	M53	Z	-3.503	-3.503	0	%100
61	M55	X	2.111	2.111	0	%100
62	M55	Z	-3.656	-3.656	0	%100
63	M60	X	1.39	1.39	0	%100
64	M60	Z	-2.408	-2.408	0	%100
65	M64	X	2.118	2.118	0	%100
66	M64	Z	-3.668	-3.668	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	0	0	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[in,%]	End Location[in,%]
73	M68	X	1.492	1.492	0	%100
74	M68	Z	-2.584	-2.584	0	%100
75	M69	X	1.492	1.492	0	%100
76	M69	Z	-2.584	-2.584	0	%100
77	M73	X	2.656	2.656	0	%100
78	M73	Z	-4.601	-4.601	0	%100
79	M74	X	2.023	2.023	0	%100
80	M74	Z	-3.503	-3.503	0	%100
81	M76A	X	2.111	2.111	0	%100
82	M76A	Z	-3.656	-3.656	0	%100
83	M78	X	2.656	2.656	0	%100
84	M78	Z	-4.601	-4.601	0	%100
85	M79A	X	2.023	2.023	0	%100
86	M79A	Z	-3.503	-3.503	0	%100
87	M81	X	2.111	2.111	0	%100
88	M81	Z	-3.656	-3.656	0	%100
89	MP4C	X	1.69	1.69	0	%100
90	MP4C	Z	-2.928	-2.928	0	%100
91	MP2C	X	1.69	1.69	0	%100
92	MP2C	Z	-2.928	-2.928	0	%100
93	MP1C	X	1.69	1.69	0	%100
94	MP1C	Z	-2.928	-2.928	0	%100
95	MP3C	X	1.69	1.69	0	%100
96	MP3C	Z	-2.928	-2.928	0	%100
97	MP4B	X	1.69	1.69	0	%100
98	MP4B	Z	-2.928	-2.928	0	%100
99	MP2B	X	1.69	1.69	0	%100
100	MP2B	Z	-2.928	-2.928	0	%100
101	MP1B	X	1.69	1.69	0	%100
102	MP1B	Z	-2.928	-2.928	0	%100
103	MP3B	X	1.69	1.69	0	%100
104	MP3B	Z	-2.928	-2.928	0	%100
105	M102	X	1.573	1.573	0	%100
106	M102	Z	-2.725	-2.725	0	%100
107	M107	X	1.573	1.573	0	%100
108	M107	Z	-2.725	-2.725	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	1.281	1.281	0	%100
112	M119	Z	-2.218	-2.218	0	%100
113	M120	X	1.281	1.281	0	%100
114	M120	Z	-2.218	-2.218	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	0	0	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[in,%]	End Location[in,%]
1	M1	X	.908	.908	0	%100
2	M1	Z	-.524	-.524	0	%100
3	M4	X	2.751	2.751	0	%100
4	M4	Z	-1.588	-1.588	0	%100
5	M10	X	.747	.747	0	%100
6	M10	Z	-.432	-.432	0	%100
7	MP4A	X	2.928	2.928	0	%100
8	MP4A	Z	-1.69	-1.69	0	%100
9	MP2A	X	2.928	2.928	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[in,%]	End Location[in,%]
10	MP2A	Z	-1.69	-1.69	0	%100
11	MP1A	X	2.928	2.928	0	%100
12	MP1A	Z	-1.69	-1.69	0	%100
13	M43	X	.747	.747	0	%100
14	M43	Z	-.432	-.432	0	%100
15	M46	X	1.17	1.17	0	%100
16	M46	Z	-.675	-.675	0	%100
17	M51B	X	3.446	3.446	0	%100
18	M51B	Z	-1.989	-1.989	0	%100
19	M52B	X	.861	.861	0	%100
20	M52B	Z	-.497	-.497	0	%100
21	M76	X	3.451	3.451	0	%100
22	M76	Z	-1.992	-1.992	0	%100
23	M77	X	4.671	4.671	0	%100
24	M77	Z	-2.697	-2.697	0	%100
25	M80	X	4.875	4.875	0	%100
26	M80	Z	-2.815	-2.815	0	%100
27	M84	X	3.451	3.451	0	%100
28	M84	Z	-1.992	-1.992	0	%100
29	M85	X	1.168	1.168	0	%100
30	M85	Z	-.674	-.674	0	%100
31	M91	X	1.219	1.219	0	%100
32	M91	Z	-.704	-.704	0	%100
33	MP3A	X	2.928	2.928	0	%100
34	MP3A	Z	-1.69	-1.69	0	%100
35	M36	X	3.633	3.633	0	%100
36	M36	Z	-2.098	-2.098	0	%100
37	M37A	X	.908	.908	0	%100
38	M37A	Z	-.524	-.524	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	2.99	2.99	0	%100
42	M39	Z	-1.726	-1.726	0	%100
43	M40	X	2.99	2.99	0	%100
44	M40	Z	-1.726	-1.726	0	%100
45	M41	X	4.678	4.678	0	%100
46	M41	Z	-2.701	-2.701	0	%100
47	M42	X	.861	.861	0	%100
48	M42	Z	-.497	-.497	0	%100
49	M43A	X	.861	.861	0	%100
50	M43A	Z	-.497	-.497	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	1.168	1.168	0	%100
54	M48	Z	-.674	-.674	0	%100
55	M50A	X	1.219	1.219	0	%100
56	M50A	Z	-.704	-.704	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	1.168	1.168	0	%100
60	M53	Z	-.674	-.674	0	%100
61	M55	X	1.219	1.219	0	%100
62	M55	Z	-.704	-.704	0	%100
63	M60	X	2.408	2.408	0	%100
64	M60	Z	-1.39	-1.39	0	%100
65	M64	X	2.751	2.751	0	%100
66	M64	Z	-1.588	-1.588	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[in,%]	End Location[in,%]
67	M65	X	.747	.747	0	%100
68	M65	Z	-.432	-.432	0	%100
69	M66	X	.747	.747	0	%100
70	M66	Z	-.432	-.432	0	%100
71	M67	X	1.17	1.17	0	%100
72	M67	Z	-.675	-.675	0	%100
73	M68	X	.861	.861	0	%100
74	M68	Z	-.497	-.497	0	%100
75	M69	X	3.446	3.446	0	%100
76	M69	Z	-1.989	-1.989	0	%100
77	M73	X	3.451	3.451	0	%100
78	M73	Z	-1.992	-1.992	0	%100
79	M74	X	1.168	1.168	0	%100
80	M74	Z	-.674	-.674	0	%100
81	M76A	X	1.219	1.219	0	%100
82	M76A	Z	-.704	-.704	0	%100
83	M78	X	3.451	3.451	0	%100
84	M78	Z	-1.992	-1.992	0	%100
85	M79A	X	4.671	4.671	0	%100
86	M79A	Z	-2.697	-2.697	0	%100
87	M81	X	4.875	4.875	0	%100
88	M81	Z	-2.815	-2.815	0	%100
89	MP4C	X	2.928	2.928	0	%100
90	MP4C	Z	-1.69	-1.69	0	%100
91	MP2C	X	2.928	2.928	0	%100
92	MP2C	Z	-1.69	-1.69	0	%100
93	MP1C	X	2.928	2.928	0	%100
94	MP1C	Z	-1.69	-1.69	0	%100
95	MP3C	X	2.928	2.928	0	%100
96	MP3C	Z	-1.69	-1.69	0	%100
97	MP4B	X	2.928	2.928	0	%100
98	MP4B	Z	-1.69	-1.69	0	%100
99	MP2B	X	2.928	2.928	0	%100
100	MP2B	Z	-1.69	-1.69	0	%100
101	MP1B	X	2.928	2.928	0	%100
102	MP1B	Z	-1.69	-1.69	0	%100
103	MP3B	X	2.928	2.928	0	%100
104	MP3B	Z	-1.69	-1.69	0	%100
105	M102	X	.908	.908	0	%100
106	M102	Z	-.524	-.524	0	%100
107	M107	X	3.633	3.633	0	%100
108	M107	Z	-2.098	-2.098	0	%100
109	M108	X	.908	.908	0	%100
110	M108	Z	-.524	-.524	0	%100
111	M119	X	.739	.739	0	%100
112	M119	Z	-.427	-.427	0	%100
113	M120	X	2.957	2.957	0	%100
114	M120	Z	-1.707	-1.707	0	%100
115	M121A	X	.739	.739	0	%100
116	M121A	Z	-.427	-.427	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	4.235	4.235	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[in,%]	End Location[in,%]
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	3.381	3.381	0	%100
8	MP4A	Z	0	0	0	%100
9	MP2A	X	3.381	3.381	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	3.381	3.381	0	%100
12	MP1A	Z	0	0	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	0	0	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	0	0	0	%100
17	M51B	X	2.984	2.984	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	2.984	2.984	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	5.313	5.313	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	4.045	4.045	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	4.222	4.222	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	5.313	5.313	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	4.045	4.045	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	4.222	4.222	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	3.381	3.381	0	%100
34	MP3A	Z	0	0	0	%100
35	M36	X	3.146	3.146	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	3.146	3.146	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	1.059	1.059	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	2.589	2.589	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	2.589	2.589	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	4.051	4.051	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	2.984	2.984	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	0	0	0	%100
51	M47	X	1.328	1.328	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	4.045	4.045	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	4.222	4.222	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	1.328	1.328	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	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[in,%]	End Location[in,%]
61	M55	X	0	0	0	%100
62	M55	Z	0	0	0	%100
63	M60	X	2.781	2.781	0	%100
64	M60	Z	0	0	0	%100
65	M64	X	1.059	1.059	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	2.589	2.589	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	2.589	2.589	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	4.051	4.051	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	0	0	0	%100
75	M69	X	2.984	2.984	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	1.328	1.328	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M78	X	1.328	1.328	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	4.045	4.045	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	4.222	4.222	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	3.381	3.381	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	3.381	3.381	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	3.381	3.381	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3C	X	3.381	3.381	0	%100
96	MP3C	Z	0	0	0	%100
97	MP4B	X	3.381	3.381	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	3.381	3.381	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	3.381	3.381	0	%100
102	MP1B	Z	0	0	0	%100
103	MP3B	X	3.381	3.381	0	%100
104	MP3B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	3.146	3.146	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	3.146	3.146	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	2.561	2.561	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	2.561	2.561	0	%100
116	M121A	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[in,%]	End Location[in,%]
1	M1	X	.908	.908	0	%100
2	M1	Z	.524	.524	0	%100
3	M4	X	2.751	2.751	0	%100
4	M4	Z	1.588	1.588	0	%100
5	M10	X	.747	.747	0	%100
6	M10	Z	.432	.432	0	%100
7	MP4A	X	2.928	2.928	0	%100
8	MP4A	Z	1.69	1.69	0	%100
9	MP2A	X	2.928	2.928	0	%100
10	MP2A	Z	1.69	1.69	0	%100
11	MP1A	X	2.928	2.928	0	%100
12	MP1A	Z	1.69	1.69	0	%100
13	M43	X	.747	.747	0	%100
14	M43	Z	.432	.432	0	%100
15	M46	X	1.17	1.17	0	%100
16	M46	Z	.675	.675	0	%100
17	M51B	X	.861	.861	0	%100
18	M51B	Z	.497	.497	0	%100
19	M52B	X	3.446	3.446	0	%100
20	M52B	Z	1.989	1.989	0	%100
21	M76	X	3.451	3.451	0	%100
22	M76	Z	1.992	1.992	0	%100
23	M77	X	1.168	1.168	0	%100
24	M77	Z	.674	.674	0	%100
25	M80	X	1.219	1.219	0	%100
26	M80	Z	.704	.704	0	%100
27	M84	X	3.451	3.451	0	%100
28	M84	Z	1.992	1.992	0	%100
29	M85	X	4.671	4.671	0	%100
30	M85	Z	2.697	2.697	0	%100
31	M91	X	4.875	4.875	0	%100
32	M91	Z	2.815	2.815	0	%100
33	MP3A	X	2.928	2.928	0	%100
34	MP3A	Z	1.69	1.69	0	%100
35	M36	X	.908	.908	0	%100
36	M36	Z	.524	.524	0	%100
37	M37A	X	3.633	3.633	0	%100
38	M37A	Z	2.098	2.098	0	%100
39	M38A	X	2.751	2.751	0	%100
40	M38A	Z	1.588	1.588	0	%100
41	M39	X	.747	.747	0	%100
42	M39	Z	.432	.432	0	%100
43	M40	X	.747	.747	0	%100
44	M40	Z	.432	.432	0	%100
45	M41	X	1.17	1.17	0	%100
46	M41	Z	.675	.675	0	%100
47	M42	X	3.446	3.446	0	%100
48	M42	Z	1.989	1.989	0	%100
49	M43A	X	.861	.861	0	%100
50	M43A	Z	.497	.497	0	%100
51	M47	X	3.451	3.451	0	%100
52	M47	Z	1.992	1.992	0	%100
53	M48	X	4.671	4.671	0	%100
54	M48	Z	2.697	2.697	0	%100
55	M50A	X	4.875	4.875	0	%100
56	M50A	Z	2.815	2.815	0	%100
57	M52A	X	3.451	3.451	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[in,%]	End Location[in,%]
58	M52A	Z	1.992	1.992	0	%100
59	M53	X	1.168	1.168	0	%100
60	M53	Z	.674	.674	0	%100
61	M55	X	1.219	1.219	0	%100
62	M55	Z	.704	.704	0	%100
63	M60	X	2.408	2.408	0	%100
64	M60	Z	1.39	1.39	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	2.99	2.99	0	%100
68	M65	Z	1.726	1.726	0	%100
69	M66	X	2.99	2.99	0	%100
70	M66	Z	1.726	1.726	0	%100
71	M67	X	4.678	4.678	0	%100
72	M67	Z	2.701	2.701	0	%100
73	M68	X	.861	.861	0	%100
74	M68	Z	.497	.497	0	%100
75	M69	X	.861	.861	0	%100
76	M69	Z	.497	.497	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	1.168	1.168	0	%100
80	M74	Z	.674	.674	0	%100
81	M76A	X	1.219	1.219	0	%100
82	M76A	Z	.704	.704	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	1.168	1.168	0	%100
86	M79A	Z	.674	.674	0	%100
87	M81	X	1.219	1.219	0	%100
88	M81	Z	.704	.704	0	%100
89	MP4C	X	2.928	2.928	0	%100
90	MP4C	Z	1.69	1.69	0	%100
91	MP2C	X	2.928	2.928	0	%100
92	MP2C	Z	1.69	1.69	0	%100
93	MP1C	X	2.928	2.928	0	%100
94	MP1C	Z	1.69	1.69	0	%100
95	MP3C	X	2.928	2.928	0	%100
96	MP3C	Z	1.69	1.69	0	%100
97	MP4B	X	2.928	2.928	0	%100
98	MP4B	Z	1.69	1.69	0	%100
99	MP2B	X	2.928	2.928	0	%100
100	MP2B	Z	1.69	1.69	0	%100
101	MP1B	X	2.928	2.928	0	%100
102	MP1B	Z	1.69	1.69	0	%100
103	MP3B	X	2.928	2.928	0	%100
104	MP3B	Z	1.69	1.69	0	%100
105	M102	X	.908	.908	0	%100
106	M102	Z	.524	.524	0	%100
107	M107	X	.908	.908	0	%100
108	M107	Z	.524	.524	0	%100
109	M108	X	3.633	3.633	0	%100
110	M108	Z	2.098	2.098	0	%100
111	M119	X	.739	.739	0	%100
112	M119	Z	.427	.427	0	%100
113	M120	X	.739	.739	0	%100
114	M120	Z	.427	.427	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[in,%]	End Location[in,%]
115	M121A	X	2.957	2.957	0	%100
116	M121A	Z	1.707	1.707	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[in,%]	End Location[in,%]
1	M1	X	1.573	1.573	0	%100
2	M1	Z	2.725	2.725	0	%100
3	M4	X	.529	.529	0	%100
4	M4	Z	.917	.917	0	%100
5	M10	X	1.295	1.295	0	%100
6	M10	Z	2.242	2.242	0	%100
7	MP4A	X	1.69	1.69	0	%100
8	MP4A	Z	2.928	2.928	0	%100
9	MP2A	X	1.69	1.69	0	%100
10	MP2A	Z	2.928	2.928	0	%100
11	MP1A	X	1.69	1.69	0	%100
12	MP1A	Z	2.928	2.928	0	%100
13	M43	X	1.295	1.295	0	%100
14	M43	Z	2.242	2.242	0	%100
15	M46	X	2.026	2.026	0	%100
16	M46	Z	3.509	3.509	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	1.492	1.492	0	%100
20	M52B	Z	2.584	2.584	0	%100
21	M76	X	.664	.664	0	%100
22	M76	Z	1.15	1.15	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	.664	.664	0	%100
28	M84	Z	1.15	1.15	0	%100
29	M85	X	2.023	2.023	0	%100
30	M85	Z	3.503	3.503	0	%100
31	M91	X	2.111	2.111	0	%100
32	M91	Z	3.656	3.656	0	%100
33	MP3A	X	1.69	1.69	0	%100
34	MP3A	Z	2.928	2.928	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	1.573	1.573	0	%100
38	M37A	Z	2.725	2.725	0	%100
39	M38A	X	2.118	2.118	0	%100
40	M38A	Z	3.668	3.668	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	1.492	1.492	0	%100
48	M42	Z	2.584	2.584	0	%100
49	M43A	X	1.492	1.492	0	%100
50	M43A	Z	2.584	2.584	0	%100
51	M47	X	2.656	2.656	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[in,%]	End Location[in,%]
52	M47	Z	4.601	4.601	0	%100
53	M48	X	2.023	2.023	0	%100
54	M48	Z	3.503	3.503	0	%100
55	M50A	X	2.111	2.111	0	%100
56	M50A	Z	3.656	3.656	0	%100
57	M52A	X	2.656	2.656	0	%100
58	M52A	Z	4.601	4.601	0	%100
59	M53	X	2.023	2.023	0	%100
60	M53	Z	3.503	3.503	0	%100
61	M55	X	2.111	2.111	0	%100
62	M55	Z	3.656	3.656	0	%100
63	M60	X	1.39	1.39	0	%100
64	M60	Z	2.408	2.408	0	%100
65	M64	X	.529	.529	0	%100
66	M64	Z	.917	.917	0	%100
67	M65	X	1.295	1.295	0	%100
68	M65	Z	2.242	2.242	0	%100
69	M66	X	1.295	1.295	0	%100
70	M66	Z	2.242	2.242	0	%100
71	M67	X	2.026	2.026	0	%100
72	M67	Z	3.509	3.509	0	%100
73	M68	X	1.492	1.492	0	%100
74	M68	Z	2.584	2.584	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	.664	.664	0	%100
78	M73	Z	1.15	1.15	0	%100
79	M74	X	2.023	2.023	0	%100
80	M74	Z	3.503	3.503	0	%100
81	M76A	X	2.111	2.111	0	%100
82	M76A	Z	3.656	3.656	0	%100
83	M78	X	.664	.664	0	%100
84	M78	Z	1.15	1.15	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	1.69	1.69	0	%100
90	MP4C	Z	2.928	2.928	0	%100
91	MP2C	X	1.69	1.69	0	%100
92	MP2C	Z	2.928	2.928	0	%100
93	MP1C	X	1.69	1.69	0	%100
94	MP1C	Z	2.928	2.928	0	%100
95	MP3C	X	1.69	1.69	0	%100
96	MP3C	Z	2.928	2.928	0	%100
97	MP4B	X	1.69	1.69	0	%100
98	MP4B	Z	2.928	2.928	0	%100
99	MP2B	X	1.69	1.69	0	%100
100	MP2B	Z	2.928	2.928	0	%100
101	MP1B	X	1.69	1.69	0	%100
102	MP1B	Z	2.928	2.928	0	%100
103	MP3B	X	1.69	1.69	0	%100
104	MP3B	Z	2.928	2.928	0	%100
105	M102	X	1.573	1.573	0	%100
106	M102	Z	2.725	2.725	0	%100
107	M107	X	0	0	0	%100
108	M107	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[in,%]	End Location[in,%]
109	M108	X	1.573	1.573	0	%100
110	M108	Z	2.725	2.725	0	%100
111	M119	X	1.281	1.281	0	%100
112	M119	Z	2.218	2.218	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	1.281	1.281	0	%100
116	M121A	Z	2.218	2.218	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	4.195	4.195	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.452	3.452	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	3.381	3.381	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	3.381	3.381	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	3.381	3.381	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	3.452	3.452	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	5.402	5.402	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	.995	.995	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	.995	.995	0	%100
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	1.348	1.348	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	1.407	1.407	0	%100
27	M84	X	0	0	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	1.348	1.348	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	1.407	1.407	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	3.381	3.381	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	1.049	1.049	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	1.049	1.049	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	3.176	3.176	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	.863	.863	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	.863	.863	0	%100
45	M41	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[in,%]	End Location[in,%]
46	M41	Z	1.35	1.35	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	.995	.995	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	3.979	3.979	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	3.985	3.985	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	1.348	1.348	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	1.407	1.407	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	3.985	3.985	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	5.393	5.393	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	5.629	5.629	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	2.781	2.781	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	3.176	3.176	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	.863	.863	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	.863	.863	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	1.35	1.35	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	3.979	3.979	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	.995	.995	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	3.985	3.985	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	5.393	5.393	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	5.629	5.629	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	3.985	3.985	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	1.348	1.348	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	1.407	1.407	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	3.381	3.381	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	3.381	3.381	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	3.381	3.381	0	%100
95	MP3C	X	0	0	0	%100
96	MP3C	Z	3.381	3.381	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	3.381	3.381	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	3.381	3.381	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	3.381	3.381	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[in,%]	End Location[in,%]
103	MP3B	X	0	0	0	%100
104	MP3B	Z	3.381	3.381	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	4.195	4.195	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	1.049	1.049	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	1.049	1.049	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	3.415	3.415	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	.854	.854	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	.854	.854	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[in,%]	End Location[in,%]
1	M1	X	-1.573	-1.573	0	%100
2	M1	Z	2.725	2.725	0	%100
3	M4	X	-.529	-.529	0	%100
4	M4	Z	.917	.917	0	%100
5	M10	X	-1.295	-1.295	0	%100
6	M10	Z	2.242	2.242	0	%100
7	MP4A	X	-1.69	-1.69	0	%100
8	MP4A	Z	2.928	2.928	0	%100
9	MP2A	X	-1.69	-1.69	0	%100
10	MP2A	Z	2.928	2.928	0	%100
11	MP1A	X	-1.69	-1.69	0	%100
12	MP1A	Z	2.928	2.928	0	%100
13	M43	X	-1.295	-1.295	0	%100
14	M43	Z	2.242	2.242	0	%100
15	M46	X	-2.026	-2.026	0	%100
16	M46	Z	3.509	3.509	0	%100
17	M51B	X	-1.492	-1.492	0	%100
18	M51B	Z	2.584	2.584	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	-.664	-.664	0	%100
22	M76	Z	1.15	1.15	0	%100
23	M77	X	-2.023	-2.023	0	%100
24	M77	Z	3.503	3.503	0	%100
25	M80	X	-2.111	-2.111	0	%100
26	M80	Z	3.656	3.656	0	%100
27	M84	X	-.664	-.664	0	%100
28	M84	Z	1.15	1.15	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	-1.69	-1.69	0	%100
34	MP3A	Z	2.928	2.928	0	%100
35	M36	X	-1.573	-1.573	0	%100
36	M36	Z	2.725	2.725	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	-.529	-.529	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[in,%]	End Location[in,%]
40	M38A	Z	.917	.917	0	%100
41	M39	X	-1.295	-1.295	0	%100
42	M39	Z	2.242	2.242	0	%100
43	M40	X	-1.295	-1.295	0	%100
44	M40	Z	2.242	2.242	0	%100
45	M41	X	-2.026	-2.026	0	%100
46	M41	Z	3.509	3.509	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	-1.492	-1.492	0	%100
50	M43A	Z	2.584	2.584	0	%100
51	M47	X	-.664	-.664	0	%100
52	M47	Z	1.15	1.15	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	-.664	-.664	0	%100
58	M52A	Z	1.15	1.15	0	%100
59	M53	X	-2.023	-2.023	0	%100
60	M53	Z	3.503	3.503	0	%100
61	M55	X	-2.111	-2.111	0	%100
62	M55	Z	3.656	3.656	0	%100
63	M60	X	-1.39	-1.39	0	%100
64	M60	Z	2.408	2.408	0	%100
65	M64	X	-2.118	-2.118	0	%100
66	M64	Z	3.668	3.668	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	-1.492	-1.492	0	%100
74	M68	Z	2.584	2.584	0	%100
75	M69	X	-1.492	-1.492	0	%100
76	M69	Z	2.584	2.584	0	%100
77	M73	X	-2.656	-2.656	0	%100
78	M73	Z	4.601	4.601	0	%100
79	M74	X	-2.023	-2.023	0	%100
80	M74	Z	3.503	3.503	0	%100
81	M76A	X	-2.111	-2.111	0	%100
82	M76A	Z	3.656	3.656	0	%100
83	M78	X	-2.656	-2.656	0	%100
84	M78	Z	4.601	4.601	0	%100
85	M79A	X	-2.023	-2.023	0	%100
86	M79A	Z	3.503	3.503	0	%100
87	M81	X	-2.111	-2.111	0	%100
88	M81	Z	3.656	3.656	0	%100
89	MP4C	X	-1.69	-1.69	0	%100
90	MP4C	Z	2.928	2.928	0	%100
91	MP2C	X	-1.69	-1.69	0	%100
92	MP2C	Z	2.928	2.928	0	%100
93	MP1C	X	-1.69	-1.69	0	%100
94	MP1C	Z	2.928	2.928	0	%100
95	MP3C	X	-1.69	-1.69	0	%100
96	MP3C	Z	2.928	2.928	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[in,%]	End Location[in,%]
97	MP4B	X	-1.69	-1.69	0	%100
98	MP4B	Z	2.928	2.928	0	%100
99	MP2B	X	-1.69	-1.69	0	%100
100	MP2B	Z	2.928	2.928	0	%100
101	MP1B	X	-1.69	-1.69	0	%100
102	MP1B	Z	2.928	2.928	0	%100
103	MP3B	X	-1.69	-1.69	0	%100
104	MP3B	Z	2.928	2.928	0	%100
105	M102	X	-1.573	-1.573	0	%100
106	M102	Z	2.725	2.725	0	%100
107	M107	X	-1.573	-1.573	0	%100
108	M107	Z	2.725	2.725	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	-1.281	-1.281	0	%100
112	M119	Z	2.218	2.218	0	%100
113	M120	X	-1.281	-1.281	0	%100
114	M120	Z	2.218	2.218	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	0	0	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[in,%]	End Location[in,%]
1	M1	X	-.908	-.908	0	%100
2	M1	Z	.524	.524	0	%100
3	M4	X	-2.751	-2.751	0	%100
4	M4	Z	1.588	1.588	0	%100
5	M10	X	-.747	-.747	0	%100
6	M10	Z	.432	.432	0	%100
7	MP4A	X	-2.928	-2.928	0	%100
8	MP4A	Z	1.69	1.69	0	%100
9	MP2A	X	-2.928	-2.928	0	%100
10	MP2A	Z	1.69	1.69	0	%100
11	MP1A	X	-2.928	-2.928	0	%100
12	MP1A	Z	1.69	1.69	0	%100
13	M43	X	-.747	-.747	0	%100
14	M43	Z	.432	.432	0	%100
15	M46	X	-1.17	-1.17	0	%100
16	M46	Z	.675	.675	0	%100
17	M51B	X	-3.446	-3.446	0	%100
18	M51B	Z	1.989	1.989	0	%100
19	M52B	X	-.861	-.861	0	%100
20	M52B	Z	.497	.497	0	%100
21	M76	X	-3.451	-3.451	0	%100
22	M76	Z	1.992	1.992	0	%100
23	M77	X	-4.671	-4.671	0	%100
24	M77	Z	2.697	2.697	0	%100
25	M80	X	-4.875	-4.875	0	%100
26	M80	Z	2.815	2.815	0	%100
27	M84	X	-3.451	-3.451	0	%100
28	M84	Z	1.992	1.992	0	%100
29	M85	X	-1.168	-1.168	0	%100
30	M85	Z	.674	.674	0	%100
31	M91	X	-1.219	-1.219	0	%100
32	M91	Z	.704	.704	0	%100
33	MP3A	X	-2.928	-2.928	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[in,%]	End Location[in,%]
34	MP3A	Z	1.69	1.69	0	%100
35	M36	X	-3.633	-3.633	0	%100
36	M36	Z	2.098	2.098	0	%100
37	M37A	X	-.908	-.908	0	%100
38	M37A	Z	.524	.524	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	-2.99	-2.99	0	%100
42	M39	Z	1.726	1.726	0	%100
43	M40	X	-2.99	-2.99	0	%100
44	M40	Z	1.726	1.726	0	%100
45	M41	X	-4.678	-4.678	0	%100
46	M41	Z	2.701	2.701	0	%100
47	M42	X	-.861	-.861	0	%100
48	M42	Z	.497	.497	0	%100
49	M43A	X	-.861	-.861	0	%100
50	M43A	Z	.497	.497	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-1.168	-1.168	0	%100
54	M48	Z	.674	.674	0	%100
55	M50A	X	-1.219	-1.219	0	%100
56	M50A	Z	.704	.704	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	-1.168	-1.168	0	%100
60	M53	Z	.674	.674	0	%100
61	M55	X	-1.219	-1.219	0	%100
62	M55	Z	.704	.704	0	%100
63	M60	X	-2.408	-2.408	0	%100
64	M60	Z	1.39	1.39	0	%100
65	M64	X	-2.751	-2.751	0	%100
66	M64	Z	1.588	1.588	0	%100
67	M65	X	-.747	-.747	0	%100
68	M65	Z	.432	.432	0	%100
69	M66	X	-.747	-.747	0	%100
70	M66	Z	.432	.432	0	%100
71	M67	X	-1.17	-1.17	0	%100
72	M67	Z	.675	.675	0	%100
73	M68	X	-.861	-.861	0	%100
74	M68	Z	.497	.497	0	%100
75	M69	X	-3.446	-3.446	0	%100
76	M69	Z	1.989	1.989	0	%100
77	M73	X	-3.451	-3.451	0	%100
78	M73	Z	1.992	1.992	0	%100
79	M74	X	-1.168	-1.168	0	%100
80	M74	Z	.674	.674	0	%100
81	M76A	X	-1.219	-1.219	0	%100
82	M76A	Z	.704	.704	0	%100
83	M78	X	-3.451	-3.451	0	%100
84	M78	Z	1.992	1.992	0	%100
85	M79A	X	-4.671	-4.671	0	%100
86	M79A	Z	2.697	2.697	0	%100
87	M81	X	-4.875	-4.875	0	%100
88	M81	Z	2.815	2.815	0	%100
89	MP4C	X	-2.928	-2.928	0	%100
90	MP4C	Z	1.69	1.69	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[in,%]	End Location[in,%]
91	MP2C	X	-2.928	-2.928	0	%100
92	MP2C	Z	1.69	1.69	0	%100
93	MP1C	X	-2.928	-2.928	0	%100
94	MP1C	Z	1.69	1.69	0	%100
95	MP3C	X	-2.928	-2.928	0	%100
96	MP3C	Z	1.69	1.69	0	%100
97	MP4B	X	-2.928	-2.928	0	%100
98	MP4B	Z	1.69	1.69	0	%100
99	MP2B	X	-2.928	-2.928	0	%100
100	MP2B	Z	1.69	1.69	0	%100
101	MP1B	X	-2.928	-2.928	0	%100
102	MP1B	Z	1.69	1.69	0	%100
103	MP3B	X	-2.928	-2.928	0	%100
104	MP3B	Z	1.69	1.69	0	%100
105	M102	X	-.908	-.908	0	%100
106	M102	Z	.524	.524	0	%100
107	M107	X	-3.633	-3.633	0	%100
108	M107	Z	2.098	2.098	0	%100
109	M108	X	-.908	-.908	0	%100
110	M108	Z	.524	.524	0	%100
111	M119	X	-.739	-.739	0	%100
112	M119	Z	.427	.427	0	%100
113	M120	X	-2.957	-2.957	0	%100
114	M120	Z	1.707	1.707	0	%100
115	M121A	X	-.739	-.739	0	%100
116	M121A	Z	.427	.427	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-4.235	-4.235	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	-3.381	-3.381	0	%100
8	MP4A	Z	0	0	0	%100
9	MP2A	X	-3.381	-3.381	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-3.381	-3.381	0	%100
12	MP1A	Z	0	0	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	0	0	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	0	0	0	%100
17	M51B	X	-2.984	-2.984	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	-2.984	-2.984	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	-5.313	-5.313	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	-4.045	-4.045	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	-4.222	-4.222	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	-5.313	-5.313	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[in,%]	End Location[in,%]
28	M84	Z	0	0	0	%100
29	M85	X	-4.045	-4.045	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	-4.222	-4.222	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	-3.381	-3.381	0	%100
34	MP3A	Z	0	0	0	%100
35	M36	X	-3.146	-3.146	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	-3.146	-3.146	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	-1.059	-1.059	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	-2.589	-2.589	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	-2.589	-2.589	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	-4.051	-4.051	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	-2.984	-2.984	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	0	0	0	%100
51	M47	X	-1.328	-1.328	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-4.045	-4.045	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	-4.222	-4.222	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	-1.328	-1.328	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	0	0	0	%100
63	M60	X	-2.781	-2.781	0	%100
64	M60	Z	0	0	0	%100
65	M64	X	-1.059	-1.059	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	-2.589	-2.589	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-2.589	-2.589	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	-4.051	-4.051	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	0	0	0	%100
75	M69	X	-2.984	-2.984	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	-1.328	-1.328	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M78	X	-1.328	-1.328	0	%100
84	M78	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[in,%]	End Location[in,%]
85	M79A	X	-4.045	-4.045	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	-4.222	-4.222	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	-3.381	-3.381	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-3.381	-3.381	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-3.381	-3.381	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3C	X	-3.381	-3.381	0	%100
96	MP3C	Z	0	0	0	%100
97	MP4B	X	-3.381	-3.381	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-3.381	-3.381	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-3.381	-3.381	0	%100
102	MP1B	Z	0	0	0	%100
103	MP3B	X	-3.381	-3.381	0	%100
104	MP3B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	-3.146	-3.146	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	-3.146	-3.146	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	-2.561	-2.561	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	-2.561	-2.561	0	%100
116	M121A	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[in,%]	End Location[in,%]
1	M1	X	-.908	-.908	0	%100
2	M1	Z	-.524	-.524	0	%100
3	M4	X	-2.751	-2.751	0	%100
4	M4	Z	-1.588	-1.588	0	%100
5	M10	X	-.747	-.747	0	%100
6	M10	Z	-.432	-.432	0	%100
7	MP4A	X	-2.928	-2.928	0	%100
8	MP4A	Z	-1.69	-1.69	0	%100
9	MP2A	X	-2.928	-2.928	0	%100
10	MP2A	Z	-1.69	-1.69	0	%100
11	MP1A	X	-2.928	-2.928	0	%100
12	MP1A	Z	-1.69	-1.69	0	%100
13	M43	X	-.747	-.747	0	%100
14	M43	Z	-.432	-.432	0	%100
15	M46	X	-1.17	-1.17	0	%100
16	M46	Z	-.675	-.675	0	%100
17	M51B	X	-.861	-.861	0	%100
18	M51B	Z	-.497	-.497	0	%100
19	M52B	X	-3.446	-3.446	0	%100
20	M52B	Z	-1.989	-1.989	0	%100
21	M76	X	-3.451	-3.451	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[in,%]	End Location[in,%]
22	M76	Z	-1.992	-1.992	0	%100
23	M77	X	-1.168	-1.168	0	%100
24	M77	Z	-.674	-.674	0	%100
25	M80	X	-1.219	-1.219	0	%100
26	M80	Z	-.704	-.704	0	%100
27	M84	X	-3.451	-3.451	0	%100
28	M84	Z	-1.992	-1.992	0	%100
29	M85	X	-4.671	-4.671	0	%100
30	M85	Z	-2.697	-2.697	0	%100
31	M91	X	-4.875	-4.875	0	%100
32	M91	Z	-2.815	-2.815	0	%100
33	MP3A	X	-2.928	-2.928	0	%100
34	MP3A	Z	-1.69	-1.69	0	%100
35	M36	X	-.908	-.908	0	%100
36	M36	Z	-.524	-.524	0	%100
37	M37A	X	-3.633	-3.633	0	%100
38	M37A	Z	-2.098	-2.098	0	%100
39	M38A	X	-2.751	-2.751	0	%100
40	M38A	Z	-1.588	-1.588	0	%100
41	M39	X	-.747	-.747	0	%100
42	M39	Z	-.432	-.432	0	%100
43	M40	X	-.747	-.747	0	%100
44	M40	Z	-.432	-.432	0	%100
45	M41	X	-1.17	-1.17	0	%100
46	M41	Z	-.675	-.675	0	%100
47	M42	X	-3.446	-3.446	0	%100
48	M42	Z	-1.989	-1.989	0	%100
49	M43A	X	-.861	-.861	0	%100
50	M43A	Z	-.497	-.497	0	%100
51	M47	X	-3.451	-3.451	0	%100
52	M47	Z	-1.992	-1.992	0	%100
53	M48	X	-4.671	-4.671	0	%100
54	M48	Z	-2.697	-2.697	0	%100
55	M50A	X	-4.875	-4.875	0	%100
56	M50A	Z	-2.815	-2.815	0	%100
57	M52A	X	-3.451	-3.451	0	%100
58	M52A	Z	-1.992	-1.992	0	%100
59	M53	X	-1.168	-1.168	0	%100
60	M53	Z	-.674	-.674	0	%100
61	M55	X	-1.219	-1.219	0	%100
62	M55	Z	-.704	-.704	0	%100
63	M60	X	-2.408	-2.408	0	%100
64	M60	Z	-1.39	-1.39	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	-2.99	-2.99	0	%100
68	M65	Z	-1.726	-1.726	0	%100
69	M66	X	-2.99	-2.99	0	%100
70	M66	Z	-1.726	-1.726	0	%100
71	M67	X	-4.678	-4.678	0	%100
72	M67	Z	-2.701	-2.701	0	%100
73	M68	X	-.861	-.861	0	%100
74	M68	Z	-.497	-.497	0	%100
75	M69	X	-.861	-.861	0	%100
76	M69	Z	-.497	-.497	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	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[in,%]	End Location[in,%]
79	M74	X	-1.168	-1.168	0	%100
80	M74	Z	-.674	-.674	0	%100
81	M76A	X	-1.219	-1.219	0	%100
82	M76A	Z	-.704	-.704	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	-1.168	-1.168	0	%100
86	M79A	Z	-.674	-.674	0	%100
87	M81	X	-1.219	-1.219	0	%100
88	M81	Z	-.704	-.704	0	%100
89	MP4C	X	-2.928	-2.928	0	%100
90	MP4C	Z	-1.69	-1.69	0	%100
91	MP2C	X	-2.928	-2.928	0	%100
92	MP2C	Z	-1.69	-1.69	0	%100
93	MP1C	X	-2.928	-2.928	0	%100
94	MP1C	Z	-1.69	-1.69	0	%100
95	MP3C	X	-2.928	-2.928	0	%100
96	MP3C	Z	-1.69	-1.69	0	%100
97	MP4B	X	-2.928	-2.928	0	%100
98	MP4B	Z	-1.69	-1.69	0	%100
99	MP2B	X	-2.928	-2.928	0	%100
100	MP2B	Z	-1.69	-1.69	0	%100
101	MP1B	X	-2.928	-2.928	0	%100
102	MP1B	Z	-1.69	-1.69	0	%100
103	MP3B	X	-2.928	-2.928	0	%100
104	MP3B	Z	-1.69	-1.69	0	%100
105	M102	X	-.908	-.908	0	%100
106	M102	Z	-.524	-.524	0	%100
107	M107	X	-.908	-.908	0	%100
108	M107	Z	-.524	-.524	0	%100
109	M108	X	-3.633	-3.633	0	%100
110	M108	Z	-2.098	-2.098	0	%100
111	M119	X	-.739	-.739	0	%100
112	M119	Z	-.427	-.427	0	%100
113	M120	X	-.739	-.739	0	%100
114	M120	Z	-.427	-.427	0	%100
115	M121A	X	-2.957	-2.957	0	%100
116	M121A	Z	-1.707	-1.707	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[in,%]	End Location[in,%]
1	M1	X	-1.573	-1.573	0	%100
2	M1	Z	-2.725	-2.725	0	%100
3	M4	X	-.529	-.529	0	%100
4	M4	Z	-.917	-.917	0	%100
5	M10	X	-1.295	-1.295	0	%100
6	M10	Z	-2.242	-2.242	0	%100
7	MP4A	X	-1.69	-1.69	0	%100
8	MP4A	Z	-2.928	-2.928	0	%100
9	MP2A	X	-1.69	-1.69	0	%100
10	MP2A	Z	-2.928	-2.928	0	%100
11	MP1A	X	-1.69	-1.69	0	%100
12	MP1A	Z	-2.928	-2.928	0	%100
13	M43	X	-1.295	-1.295	0	%100
14	M43	Z	-2.242	-2.242	0	%100
15	M46	X	-2.026	-2.026	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[in,%]	End Location[in,%]
16	M46	Z	-3.509	-3.509	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	-1.492	-1.492	0	%100
20	M52B	Z	-2.584	-2.584	0	%100
21	M76	X	-.664	-.664	0	%100
22	M76	Z	-1.15	-1.15	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	-.664	-.664	0	%100
28	M84	Z	-1.15	-1.15	0	%100
29	M85	X	-2.023	-2.023	0	%100
30	M85	Z	-3.503	-3.503	0	%100
31	M91	X	-2.111	-2.111	0	%100
32	M91	Z	-3.656	-3.656	0	%100
33	MP3A	X	-1.69	-1.69	0	%100
34	MP3A	Z	-2.928	-2.928	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	-1.573	-1.573	0	%100
38	M37A	Z	-2.725	-2.725	0	%100
39	M38A	X	-2.118	-2.118	0	%100
40	M38A	Z	-3.668	-3.668	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	-1.492	-1.492	0	%100
48	M42	Z	-2.584	-2.584	0	%100
49	M43A	X	-1.492	-1.492	0	%100
50	M43A	Z	-2.584	-2.584	0	%100
51	M47	X	-2.656	-2.656	0	%100
52	M47	Z	-4.601	-4.601	0	%100
53	M48	X	-2.023	-2.023	0	%100
54	M48	Z	-3.503	-3.503	0	%100
55	M50A	X	-2.111	-2.111	0	%100
56	M50A	Z	-3.656	-3.656	0	%100
57	M52A	X	-2.656	-2.656	0	%100
58	M52A	Z	-4.601	-4.601	0	%100
59	M53	X	-2.023	-2.023	0	%100
60	M53	Z	-3.503	-3.503	0	%100
61	M55	X	-2.111	-2.111	0	%100
62	M55	Z	-3.656	-3.656	0	%100
63	M60	X	-1.39	-1.39	0	%100
64	M60	Z	-2.408	-2.408	0	%100
65	M64	X	-.529	-.529	0	%100
66	M64	Z	-.917	-.917	0	%100
67	M65	X	-1.295	-1.295	0	%100
68	M65	Z	-2.242	-2.242	0	%100
69	M66	X	-1.295	-1.295	0	%100
70	M66	Z	-2.242	-2.242	0	%100
71	M67	X	-2.026	-2.026	0	%100
72	M67	Z	-3.509	-3.509	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[in,%]	End Location[in,%]
73	M68	X	-1.492	-1.492	0	%100
74	M68	Z	-2.584	-2.584	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	-.664	-.664	0	%100
78	M73	Z	-1.15	-1.15	0	%100
79	M74	X	-2.023	-2.023	0	%100
80	M74	Z	-3.503	-3.503	0	%100
81	M76A	X	-2.111	-2.111	0	%100
82	M76A	Z	-3.656	-3.656	0	%100
83	M78	X	-.664	-.664	0	%100
84	M78	Z	-1.15	-1.15	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	-1.69	-1.69	0	%100
90	MP4C	Z	-2.928	-2.928	0	%100
91	MP2C	X	-1.69	-1.69	0	%100
92	MP2C	Z	-2.928	-2.928	0	%100
93	MP1C	X	-1.69	-1.69	0	%100
94	MP1C	Z	-2.928	-2.928	0	%100
95	MP3C	X	-1.69	-1.69	0	%100
96	MP3C	Z	-2.928	-2.928	0	%100
97	MP4B	X	-1.69	-1.69	0	%100
98	MP4B	Z	-2.928	-2.928	0	%100
99	MP2B	X	-1.69	-1.69	0	%100
100	MP2B	Z	-2.928	-2.928	0	%100
101	MP1B	X	-1.69	-1.69	0	%100
102	MP1B	Z	-2.928	-2.928	0	%100
103	MP3B	X	-1.69	-1.69	0	%100
104	MP3B	Z	-2.928	-2.928	0	%100
105	M102	X	-1.573	-1.573	0	%100
106	M102	Z	-2.725	-2.725	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	-1.573	-1.573	0	%100
110	M108	Z	-2.725	-2.725	0	%100
111	M119	X	-1.281	-1.281	0	%100
112	M119	Z	-2.218	-2.218	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	-1.281	-1.281	0	%100
116	M121A	Z	-2.218	-2.218	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.884	-.884	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.784	-.784	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-.619	-.619	0	%100
9	MP2A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
10	MP2A	Z	-.619	-.619	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-.619	-.619	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	-.784	-.784	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	-1.564	-1.564	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	-.217	-.217	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	-.217	-.217	0	%100
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	-.398	-.398	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	-.419	-.419	0	%100
27	M84	X	0	0	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	-.398	-.398	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	-.419	-.419	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-.619	-.619	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	-.221	-.221	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	-.221	-.221	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	-.695	-.695	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-.196	-.196	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-.196	-.196	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	-.391	-.391	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	-.217	-.217	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	-.869	-.869	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.173	-1.173	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-.398	-.398	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	-.419	-.419	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	-1.173	-1.173	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	-1.593	-1.593	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	-1.678	-1.678	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	-.506	-.506	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	-.695	-.695	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[in,%]	End Location[in,%]
67	M65	X	0	0	0	%100
68	M65	Z	-.196	-.196	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	-.196	-.196	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	-.391	-.391	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	-.869	-.869	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	-.217	-.217	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	-1.173	-1.173	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	-1.593	-1.593	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	-1.678	-1.678	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	-1.173	-1.173	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	-.398	-.398	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	-.419	-.419	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-.619	-.619	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-.619	-.619	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-.619	-.619	0	%100
95	MP3C	X	0	0	0	%100
96	MP3C	Z	-.619	-.619	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-.619	-.619	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-.619	-.619	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-.619	-.619	0	%100
103	MP3B	X	0	0	0	%100
104	MP3B	Z	-.619	-.619	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	-.884	-.884	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	-.221	-.221	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	-.221	-.221	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	-.842	-.842	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	-.21	-.21	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	-.21	-.21	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[in,%]	End Location[in,%]
1	M1	X	.331	.331	0	%100
2	M1	Z	-.574	-.574	0	%100
3	M4	X	.116	.116	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[in,%]	End Location[in,%]
4	M4	Z	-.201	-.201	0	%100
5	M10	X	.294	.294	0	%100
6	M10	Z	-.509	-.509	0	%100
7	MP4A	X	.309	.309	0	%100
8	MP4A	Z	-.536	-.536	0	%100
9	MP2A	X	.309	.309	0	%100
10	MP2A	Z	-.536	-.536	0	%100
11	MP1A	X	.309	.309	0	%100
12	MP1A	Z	-.536	-.536	0	%100
13	M43	X	.294	.294	0	%100
14	M43	Z	-.509	-.509	0	%100
15	M46	X	.586	.586	0	%100
16	M46	Z	-1.016	-1.016	0	%100
17	M51B	X	.326	.326	0	%100
18	M51B	Z	-.564	-.564	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	.195	.195	0	%100
22	M76	Z	-.339	-.339	0	%100
23	M77	X	.597	.597	0	%100
24	M77	Z	-1.035	-1.035	0	%100
25	M80	X	.629	.629	0	%100
26	M80	Z	-1.09	-1.09	0	%100
27	M84	X	.195	.195	0	%100
28	M84	Z	-.339	-.339	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	.309	.309	0	%100
34	MP3A	Z	-.536	-.536	0	%100
35	M36	X	.331	.331	0	%100
36	M36	Z	-.574	-.574	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	.116	.116	0	%100
40	M38A	Z	-.201	-.201	0	%100
41	M39	X	.294	.294	0	%100
42	M39	Z	-.509	-.509	0	%100
43	M40	X	.294	.294	0	%100
44	M40	Z	-.509	-.509	0	%100
45	M41	X	.586	.586	0	%100
46	M41	Z	-1.016	-1.016	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	.326	.326	0	%100
50	M43A	Z	-.564	-.564	0	%100
51	M47	X	.195	.195	0	%100
52	M47	Z	-.339	-.339	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	.195	.195	0	%100
58	M52A	Z	-.339	-.339	0	%100
59	M53	X	.597	.597	0	%100
60	M53	Z	-1.035	-1.035	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[in,%]	End Location[in,%]
61	M55	X	.629	.629	0	%100
62	M55	Z	-1.09	-1.09	0	%100
63	M60	X	.253	.253	0	%100
64	M60	Z	-.438	-.438	0	%100
65	M64	X	.463	.463	0	%100
66	M64	Z	-.802	-.802	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	.326	.326	0	%100
74	M68	Z	-.564	-.564	0	%100
75	M69	X	.326	.326	0	%100
76	M69	Z	-.564	-.564	0	%100
77	M73	X	.782	.782	0	%100
78	M73	Z	-1.354	-1.354	0	%100
79	M74	X	.597	.597	0	%100
80	M74	Z	-1.035	-1.035	0	%100
81	M76A	X	.629	.629	0	%100
82	M76A	Z	-1.09	-1.09	0	%100
83	M78	X	.782	.782	0	%100
84	M78	Z	-1.354	-1.354	0	%100
85	M79A	X	.597	.597	0	%100
86	M79A	Z	-1.035	-1.035	0	%100
87	M81	X	.629	.629	0	%100
88	M81	Z	-1.09	-1.09	0	%100
89	MP4C	X	.309	.309	0	%100
90	MP4C	Z	-.536	-.536	0	%100
91	MP2C	X	.309	.309	0	%100
92	MP2C	Z	-.536	-.536	0	%100
93	MP1C	X	.309	.309	0	%100
94	MP1C	Z	-.536	-.536	0	%100
95	MP3C	X	.309	.309	0	%100
96	MP3C	Z	-.536	-.536	0	%100
97	MP4B	X	.309	.309	0	%100
98	MP4B	Z	-.536	-.536	0	%100
99	MP2B	X	.309	.309	0	%100
100	MP2B	Z	-.536	-.536	0	%100
101	MP1B	X	.309	.309	0	%100
102	MP1B	Z	-.536	-.536	0	%100
103	MP3B	X	.309	.309	0	%100
104	MP3B	Z	-.536	-.536	0	%100
105	M102	X	.331	.331	0	%100
106	M102	Z	-.574	-.574	0	%100
107	M107	X	.331	.331	0	%100
108	M107	Z	-.574	-.574	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	.316	.316	0	%100
112	M119	Z	-.547	-.547	0	%100
113	M120	X	.316	.316	0	%100
114	M120	Z	-.547	-.547	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	0	0	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[in,%]	End Location[in,%]
1	M1	X	.191	.191	0	%100
2	M1	Z	-.11	-.11	0	%100
3	M4	X	.602	.602	0	%100
4	M4	Z	-.347	-.347	0	%100
5	M10	X	.17	.17	0	%100
6	M10	Z	-.098	-.098	0	%100
7	MP4A	X	.536	.536	0	%100
8	MP4A	Z	-.309	-.309	0	%100
9	MP2A	X	.536	.536	0	%100
10	MP2A	Z	-.309	-.309	0	%100
11	MP1A	X	.536	.536	0	%100
12	MP1A	Z	-.309	-.309	0	%100
13	M43	X	.17	.17	0	%100
14	M43	Z	-.098	-.098	0	%100
15	M46	X	.339	.339	0	%100
16	M46	Z	-.195	-.195	0	%100
17	M51B	X	.752	.752	0	%100
18	M51B	Z	-.434	-.434	0	%100
19	M52B	X	.188	.188	0	%100
20	M52B	Z	-.109	-.109	0	%100
21	M76	X	1.016	1.016	0	%100
22	M76	Z	-.586	-.586	0	%100
23	M77	X	1.379	1.379	0	%100
24	M77	Z	-.796	-.796	0	%100
25	M80	X	1.453	1.453	0	%100
26	M80	Z	-.839	-.839	0	%100
27	M84	X	1.016	1.016	0	%100
28	M84	Z	-.586	-.586	0	%100
29	M85	X	.345	.345	0	%100
30	M85	Z	-.199	-.199	0	%100
31	M91	X	.363	.363	0	%100
32	M91	Z	-.21	-.21	0	%100
33	MP3A	X	.536	.536	0	%100
34	MP3A	Z	-.309	-.309	0	%100
35	M36	X	.765	.765	0	%100
36	M36	Z	-.442	-.442	0	%100
37	M37A	X	.191	.191	0	%100
38	M37A	Z	-.11	-.11	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	.679	.679	0	%100
42	M39	Z	-.392	-.392	0	%100
43	M40	X	.679	.679	0	%100
44	M40	Z	-.392	-.392	0	%100
45	M41	X	1.354	1.354	0	%100
46	M41	Z	-.782	-.782	0	%100
47	M42	X	.188	.188	0	%100
48	M42	Z	-.109	-.109	0	%100
49	M43A	X	.188	.188	0	%100
50	M43A	Z	-.109	-.109	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	.345	.345	0	%100
54	M48	Z	-.199	-.199	0	%100
55	M50A	X	.363	.363	0	%100
56	M50A	Z	-.21	-.21	0	%100
57	M52A	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[in,%]	End Location[in,%]
58	M52A	Z	0	0	0	%100
59	M53	X	.345	.345	0	%100
60	M53	Z	-.199	-.199	0	%100
61	M55	X	.363	.363	0	%100
62	M55	Z	-.21	-.21	0	%100
63	M60	X	.438	.438	0	%100
64	M60	Z	-.253	-.253	0	%100
65	M64	X	.602	.602	0	%100
66	M64	Z	-.347	-.347	0	%100
67	M65	X	.17	.17	0	%100
68	M65	Z	-.098	-.098	0	%100
69	M66	X	.17	.17	0	%100
70	M66	Z	-.098	-.098	0	%100
71	M67	X	.339	.339	0	%100
72	M67	Z	-.195	-.195	0	%100
73	M68	X	.188	.188	0	%100
74	M68	Z	-.109	-.109	0	%100
75	M69	X	.752	.752	0	%100
76	M69	Z	-.434	-.434	0	%100
77	M73	X	1.016	1.016	0	%100
78	M73	Z	-.586	-.586	0	%100
79	M74	X	.345	.345	0	%100
80	M74	Z	-.199	-.199	0	%100
81	M76A	X	.363	.363	0	%100
82	M76A	Z	-.21	-.21	0	%100
83	M78	X	1.016	1.016	0	%100
84	M78	Z	-.586	-.586	0	%100
85	M79A	X	1.379	1.379	0	%100
86	M79A	Z	-.796	-.796	0	%100
87	M81	X	1.453	1.453	0	%100
88	M81	Z	-.839	-.839	0	%100
89	MP4C	X	.536	.536	0	%100
90	MP4C	Z	-.309	-.309	0	%100
91	MP2C	X	.536	.536	0	%100
92	MP2C	Z	-.309	-.309	0	%100
93	MP1C	X	.536	.536	0	%100
94	MP1C	Z	-.309	-.309	0	%100
95	MP3C	X	.536	.536	0	%100
96	MP3C	Z	-.309	-.309	0	%100
97	MP4B	X	.536	.536	0	%100
98	MP4B	Z	-.309	-.309	0	%100
99	MP2B	X	.536	.536	0	%100
100	MP2B	Z	-.309	-.309	0	%100
101	MP1B	X	.536	.536	0	%100
102	MP1B	Z	-.309	-.309	0	%100
103	MP3B	X	.536	.536	0	%100
104	MP3B	Z	-.309	-.309	0	%100
105	M102	X	.191	.191	0	%100
106	M102	Z	-.11	-.11	0	%100
107	M107	X	.765	.765	0	%100
108	M107	Z	-.442	-.442	0	%100
109	M108	X	.191	.191	0	%100
110	M108	Z	-.11	-.11	0	%100
111	M119	X	.182	.182	0	%100
112	M119	Z	-.105	-.105	0	%100
113	M120	X	.729	.729	0	%100
114	M120	Z	-.421	-.421	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[in,%]	End Location[in,%]
115	M121A	X	.182	.182	0	%100
116	M121A	Z	-.105	-.105	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.927	.927	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	.619	.619	0	%100
8	MP4A	Z	0	0	0	%100
9	MP2A	X	.619	.619	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	.619	.619	0	%100
12	MP1A	Z	0	0	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	0	0	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	0	0	0	%100
17	M51B	X	.652	.652	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	.652	.652	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	1.564	1.564	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	1.195	1.195	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	1.258	1.258	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	1.564	1.564	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	1.195	1.195	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	1.258	1.258	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	.619	.619	0	%100
34	MP3A	Z	0	0	0	%100
35	M36	X	.663	.663	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	.663	.663	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	.232	.232	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	.588	.588	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	.588	.588	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	1.173	1.173	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	.652	.652	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	0	0	0	%100
51	M47	X	.391	.391	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[in,%]	End Location[in,%]
52	M47	Z	0	0	0	%100
53	M48	X	1.195	1.195	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	1.258	1.258	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	.391	.391	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	0	0	0	%100
63	M60	X	.506	.506	0	%100
64	M60	Z	0	0	0	%100
65	M64	X	.232	.232	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	.588	.588	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	.588	.588	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	1.173	1.173	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	0	0	0	%100
75	M69	X	.652	.652	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	.391	.391	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M78	X	.391	.391	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	1.195	1.195	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	1.258	1.258	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	.619	.619	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	.619	.619	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	.619	.619	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3C	X	.619	.619	0	%100
96	MP3C	Z	0	0	0	%100
97	MP4B	X	.619	.619	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	.619	.619	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	.619	.619	0	%100
102	MP1B	Z	0	0	0	%100
103	MP3B	X	.619	.619	0	%100
104	MP3B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	.663	.663	0	%100
108	M107	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[in,%]	End Location[in,%]
109	M108	X	.663	.663	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	.631	.631	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	.631	.631	0	%100
116	M121A	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[in,%]	End Location[in,%]
1	M1	X	.191	.191	0	%100
2	M1	Z	.11	.11	0	%100
3	M4	X	.602	.602	0	%100
4	M4	Z	.347	.347	0	%100
5	M10	X	.17	.17	0	%100
6	M10	Z	.098	.098	0	%100
7	MP4A	X	.536	.536	0	%100
8	MP4A	Z	.309	.309	0	%100
9	MP2A	X	.536	.536	0	%100
10	MP2A	Z	.309	.309	0	%100
11	MP1A	X	.536	.536	0	%100
12	MP1A	Z	.309	.309	0	%100
13	M43	X	.17	.17	0	%100
14	M43	Z	.098	.098	0	%100
15	M46	X	.339	.339	0	%100
16	M46	Z	.195	.195	0	%100
17	M51B	X	.188	.188	0	%100
18	M51B	Z	.109	.109	0	%100
19	M52B	X	.752	.752	0	%100
20	M52B	Z	.434	.434	0	%100
21	M76	X	1.016	1.016	0	%100
22	M76	Z	.586	.586	0	%100
23	M77	X	.345	.345	0	%100
24	M77	Z	.199	.199	0	%100
25	M80	X	.363	.363	0	%100
26	M80	Z	.21	.21	0	%100
27	M84	X	1.016	1.016	0	%100
28	M84	Z	.586	.586	0	%100
29	M85	X	1.379	1.379	0	%100
30	M85	Z	.796	.796	0	%100
31	M91	X	1.453	1.453	0	%100
32	M91	Z	.839	.839	0	%100
33	MP3A	X	.536	.536	0	%100
34	MP3A	Z	.309	.309	0	%100
35	M36	X	.191	.191	0	%100
36	M36	Z	.11	.11	0	%100
37	M37A	X	.765	.765	0	%100
38	M37A	Z	.442	.442	0	%100
39	M38A	X	.602	.602	0	%100
40	M38A	Z	.347	.347	0	%100
41	M39	X	.17	.17	0	%100
42	M39	Z	.098	.098	0	%100
43	M40	X	.17	.17	0	%100
44	M40	Z	.098	.098	0	%100
45	M41	X	.339	.339	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[in,%]	End Location[in,%]
46	M41	Z	.195	.195	0	%100
47	M42	X	.752	.752	0	%100
48	M42	Z	.434	.434	0	%100
49	M43A	X	.188	.188	0	%100
50	M43A	Z	.109	.109	0	%100
51	M47	X	1.016	1.016	0	%100
52	M47	Z	.586	.586	0	%100
53	M48	X	1.379	1.379	0	%100
54	M48	Z	.796	.796	0	%100
55	M50A	X	1.453	1.453	0	%100
56	M50A	Z	.839	.839	0	%100
57	M52A	X	1.016	1.016	0	%100
58	M52A	Z	.586	.586	0	%100
59	M53	X	.345	.345	0	%100
60	M53	Z	.199	.199	0	%100
61	M55	X	.363	.363	0	%100
62	M55	Z	.21	.21	0	%100
63	M60	X	.438	.438	0	%100
64	M60	Z	.253	.253	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	.679	.679	0	%100
68	M65	Z	.392	.392	0	%100
69	M66	X	.679	.679	0	%100
70	M66	Z	.392	.392	0	%100
71	M67	X	1.354	1.354	0	%100
72	M67	Z	.782	.782	0	%100
73	M68	X	.188	.188	0	%100
74	M68	Z	.109	.109	0	%100
75	M69	X	.188	.188	0	%100
76	M69	Z	.109	.109	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	.345	.345	0	%100
80	M74	Z	.199	.199	0	%100
81	M76A	X	.363	.363	0	%100
82	M76A	Z	.21	.21	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	.345	.345	0	%100
86	M79A	Z	.199	.199	0	%100
87	M81	X	.363	.363	0	%100
88	M81	Z	.21	.21	0	%100
89	MP4C	X	.536	.536	0	%100
90	MP4C	Z	.309	.309	0	%100
91	MP2C	X	.536	.536	0	%100
92	MP2C	Z	.309	.309	0	%100
93	MP1C	X	.536	.536	0	%100
94	MP1C	Z	.309	.309	0	%100
95	MP3C	X	.536	.536	0	%100
96	MP3C	Z	.309	.309	0	%100
97	MP4B	X	.536	.536	0	%100
98	MP4B	Z	.309	.309	0	%100
99	MP2B	X	.536	.536	0	%100
100	MP2B	Z	.309	.309	0	%100
101	MP1B	X	.536	.536	0	%100
102	MP1B	Z	.309	.309	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[in,%]	End Location[in,%]
103	MP3B	X	.536	.536	0	%100
104	MP3B	Z	.309	.309	0	%100
105	M102	X	.191	.191	0	%100
106	M102	Z	.11	.11	0	%100
107	M107	X	.191	.191	0	%100
108	M107	Z	.11	.11	0	%100
109	M108	X	.765	.765	0	%100
110	M108	Z	.442	.442	0	%100
111	M119	X	.182	.182	0	%100
112	M119	Z	.105	.105	0	%100
113	M120	X	.182	.182	0	%100
114	M120	Z	.105	.105	0	%100
115	M121A	X	.729	.729	0	%100
116	M121A	Z	.421	.421	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[in,%]	End Location[in,%]
1	M1	X	.331	.331	0	%100
2	M1	Z	.574	.574	0	%100
3	M4	X	.116	.116	0	%100
4	M4	Z	.201	.201	0	%100
5	M10	X	.294	.294	0	%100
6	M10	Z	.509	.509	0	%100
7	MP4A	X	.309	.309	0	%100
8	MP4A	Z	.536	.536	0	%100
9	MP2A	X	.309	.309	0	%100
10	MP2A	Z	.536	.536	0	%100
11	MP1A	X	.309	.309	0	%100
12	MP1A	Z	.536	.536	0	%100
13	M43	X	.294	.294	0	%100
14	M43	Z	.509	.509	0	%100
15	M46	X	.586	.586	0	%100
16	M46	Z	1.016	1.016	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	.326	.326	0	%100
20	M52B	Z	.564	.564	0	%100
21	M76	X	.195	.195	0	%100
22	M76	Z	.339	.339	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	.195	.195	0	%100
28	M84	Z	.339	.339	0	%100
29	M85	X	.597	.597	0	%100
30	M85	Z	1.035	1.035	0	%100
31	M91	X	.629	.629	0	%100
32	M91	Z	1.09	1.09	0	%100
33	MP3A	X	.309	.309	0	%100
34	MP3A	Z	.536	.536	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	.331	.331	0	%100
38	M37A	Z	.574	.574	0	%100
39	M38A	X	.463	.463	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[in,%]	End Location[in,%]
40	M38A	Z	.802	.802	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	.326	.326	0	%100
48	M42	Z	.564	.564	0	%100
49	M43A	X	.326	.326	0	%100
50	M43A	Z	.564	.564	0	%100
51	M47	X	.782	.782	0	%100
52	M47	Z	1.354	1.354	0	%100
53	M48	X	.597	.597	0	%100
54	M48	Z	1.035	1.035	0	%100
55	M50A	X	.629	.629	0	%100
56	M50A	Z	1.09	1.09	0	%100
57	M52A	X	.782	.782	0	%100
58	M52A	Z	1.354	1.354	0	%100
59	M53	X	.597	.597	0	%100
60	M53	Z	1.035	1.035	0	%100
61	M55	X	.629	.629	0	%100
62	M55	Z	1.09	1.09	0	%100
63	M60	X	.253	.253	0	%100
64	M60	Z	.438	.438	0	%100
65	M64	X	.116	.116	0	%100
66	M64	Z	.201	.201	0	%100
67	M65	X	.294	.294	0	%100
68	M65	Z	.509	.509	0	%100
69	M66	X	.294	.294	0	%100
70	M66	Z	.509	.509	0	%100
71	M67	X	.586	.586	0	%100
72	M67	Z	1.016	1.016	0	%100
73	M68	X	.326	.326	0	%100
74	M68	Z	.564	.564	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	.195	.195	0	%100
78	M73	Z	.339	.339	0	%100
79	M74	X	.597	.597	0	%100
80	M74	Z	1.035	1.035	0	%100
81	M76A	X	.629	.629	0	%100
82	M76A	Z	1.09	1.09	0	%100
83	M78	X	.195	.195	0	%100
84	M78	Z	.339	.339	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	.309	.309	0	%100
90	MP4C	Z	.536	.536	0	%100
91	MP2C	X	.309	.309	0	%100
92	MP2C	Z	.536	.536	0	%100
93	MP1C	X	.309	.309	0	%100
94	MP1C	Z	.536	.536	0	%100
95	MP3C	X	.309	.309	0	%100
96	MP3C	Z	.536	.536	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[in,%]	End Location[in,%]
97	MP4B	X	.309	.309	0	%100
98	MP4B	Z	.536	.536	0	%100
99	MP2B	X	.309	.309	0	%100
100	MP2B	Z	.536	.536	0	%100
101	MP1B	X	.309	.309	0	%100
102	MP1B	Z	.536	.536	0	%100
103	MP3B	X	.309	.309	0	%100
104	MP3B	Z	.536	.536	0	%100
105	M102	X	.331	.331	0	%100
106	M102	Z	.574	.574	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	.331	.331	0	%100
110	M108	Z	.574	.574	0	%100
111	M119	X	.316	.316	0	%100
112	M119	Z	.547	.547	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	.316	.316	0	%100
116	M121A	Z	.547	.547	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[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	.884	.884	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.784	.784	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	.619	.619	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.619	.619	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.619	.619	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	.784	.784	0	%100
15	M46	X	0	0	0	%100
16	M46	Z	1.564	1.564	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	.217	.217	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	.217	.217	0	%100
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	.398	.398	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	.419	.419	0	%100
27	M84	X	0	0	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	.398	.398	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	.419	.419	0	%100
33	MP3A	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[in,%]	End Location[in,%]
34	MP3A	Z	.619	.619	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	.221	.221	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	.221	.221	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	.695	.695	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	.196	.196	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	.196	.196	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	.391	.391	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	.217	.217	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	.869	.869	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.173	1.173	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	.398	.398	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	.419	.419	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	1.173	1.173	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	1.593	1.593	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	1.678	1.678	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	.506	.506	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	.695	.695	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	.196	.196	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	.196	.196	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	.391	.391	0	%100
73	M68	X	0	0	0	%100
74	M68	Z	.869	.869	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	.217	.217	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	1.173	1.173	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	1.593	1.593	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	1.678	1.678	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	1.173	1.173	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	.398	.398	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	.419	.419	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	.619	.619	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[in,%]	End Location[in,%]
91	MP2C	X	0	0	0	%100
92	MP2C	Z	.619	.619	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	.619	.619	0	%100
95	MP3C	X	0	0	0	%100
96	MP3C	Z	.619	.619	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	.619	.619	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	.619	.619	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	.619	.619	0	%100
103	MP3B	X	0	0	0	%100
104	MP3B	Z	.619	.619	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	.884	.884	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	.221	.221	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	.221	.221	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	.842	.842	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	.21	.21	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	.21	.21	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[in,%]	End Location[in,%]
1	M1	X	-.331	-.331	0	%100
2	M1	Z	.574	.574	0	%100
3	M4	X	-.116	-.116	0	%100
4	M4	Z	.201	.201	0	%100
5	M10	X	-.294	-.294	0	%100
6	M10	Z	.509	.509	0	%100
7	MP4A	X	-.309	-.309	0	%100
8	MP4A	Z	.536	.536	0	%100
9	MP2A	X	-.309	-.309	0	%100
10	MP2A	Z	.536	.536	0	%100
11	MP1A	X	-.309	-.309	0	%100
12	MP1A	Z	.536	.536	0	%100
13	M43	X	-.294	-.294	0	%100
14	M43	Z	.509	.509	0	%100
15	M46	X	-.586	-.586	0	%100
16	M46	Z	1.016	1.016	0	%100
17	M51B	X	-.326	-.326	0	%100
18	M51B	Z	.564	.564	0	%100
19	M52B	X	0	0	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	-.195	-.195	0	%100
22	M76	Z	.339	.339	0	%100
23	M77	X	-.597	-.597	0	%100
24	M77	Z	1.035	1.035	0	%100
25	M80	X	-.629	-.629	0	%100
26	M80	Z	1.09	1.09	0	%100
27	M84	X	-.195	-.195	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[in,%]	End Location[in,%]
28	M84	Z	.339	.339	0	%100
29	M85	X	0	0	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	0	0	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	-.309	-.309	0	%100
34	MP3A	Z	.536	.536	0	%100
35	M36	X	-.331	-.331	0	%100
36	M36	Z	.574	.574	0	%100
37	M37A	X	0	0	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	-.116	-.116	0	%100
40	M38A	Z	.201	.201	0	%100
41	M39	X	-.294	-.294	0	%100
42	M39	Z	.509	.509	0	%100
43	M40	X	-.294	-.294	0	%100
44	M40	Z	.509	.509	0	%100
45	M41	X	-.586	-.586	0	%100
46	M41	Z	1.016	1.016	0	%100
47	M42	X	0	0	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	-.326	-.326	0	%100
50	M43A	Z	.564	.564	0	%100
51	M47	X	-.195	-.195	0	%100
52	M47	Z	.339	.339	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	0	0	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	-.195	-.195	0	%100
58	M52A	Z	.339	.339	0	%100
59	M53	X	-.597	-.597	0	%100
60	M53	Z	1.035	1.035	0	%100
61	M55	X	-.629	-.629	0	%100
62	M55	Z	1.09	1.09	0	%100
63	M60	X	-.253	-.253	0	%100
64	M60	Z	.438	.438	0	%100
65	M64	X	-.463	-.463	0	%100
66	M64	Z	.802	.802	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	0	0	0	%100
72	M67	Z	0	0	0	%100
73	M68	X	-.326	-.326	0	%100
74	M68	Z	.564	.564	0	%100
75	M69	X	-.326	-.326	0	%100
76	M69	Z	.564	.564	0	%100
77	M73	X	-.782	-.782	0	%100
78	M73	Z	1.354	1.354	0	%100
79	M74	X	-.597	-.597	0	%100
80	M74	Z	1.035	1.035	0	%100
81	M76A	X	-.629	-.629	0	%100
82	M76A	Z	1.09	1.09	0	%100
83	M78	X	-.782	-.782	0	%100
84	M78	Z	1.354	1.354	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[in,%]	End Location[in,%]
85	M79A	X	-.597	-.597	0	%100
86	M79A	Z	1.035	1.035	0	%100
87	M81	X	-.629	-.629	0	%100
88	M81	Z	1.09	1.09	0	%100
89	MP4C	X	-.309	-.309	0	%100
90	MP4C	Z	.536	.536	0	%100
91	MP2C	X	-.309	-.309	0	%100
92	MP2C	Z	.536	.536	0	%100
93	MP1C	X	-.309	-.309	0	%100
94	MP1C	Z	.536	.536	0	%100
95	MP3C	X	-.309	-.309	0	%100
96	MP3C	Z	.536	.536	0	%100
97	MP4B	X	-.309	-.309	0	%100
98	MP4B	Z	.536	.536	0	%100
99	MP2B	X	-.309	-.309	0	%100
100	MP2B	Z	.536	.536	0	%100
101	MP1B	X	-.309	-.309	0	%100
102	MP1B	Z	.536	.536	0	%100
103	MP3B	X	-.309	-.309	0	%100
104	MP3B	Z	.536	.536	0	%100
105	M102	X	-.331	-.331	0	%100
106	M102	Z	.574	.574	0	%100
107	M107	X	-.331	-.331	0	%100
108	M107	Z	.574	.574	0	%100
109	M108	X	0	0	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	-.316	-.316	0	%100
112	M119	Z	.547	.547	0	%100
113	M120	X	-.316	-.316	0	%100
114	M120	Z	.547	.547	0	%100
115	M121A	X	0	0	0	%100
116	M121A	Z	0	0	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[in,%]	End Location[in,%]
1	M1	X	-.191	-.191	0	%100
2	M1	Z	.11	.11	0	%100
3	M4	X	-.602	-.602	0	%100
4	M4	Z	.347	.347	0	%100
5	M10	X	-.17	-.17	0	%100
6	M10	Z	.098	.098	0	%100
7	MP4A	X	-.536	-.536	0	%100
8	MP4A	Z	.309	.309	0	%100
9	MP2A	X	-.536	-.536	0	%100
10	MP2A	Z	.309	.309	0	%100
11	MP1A	X	-.536	-.536	0	%100
12	MP1A	Z	.309	.309	0	%100
13	M43	X	-.17	-.17	0	%100
14	M43	Z	.098	.098	0	%100
15	M46	X	-.339	-.339	0	%100
16	M46	Z	.195	.195	0	%100
17	M51B	X	-.752	-.752	0	%100
18	M51B	Z	.434	.434	0	%100
19	M52B	X	-.188	-.188	0	%100
20	M52B	Z	.109	.109	0	%100
21	M76	X	-1.016	-1.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M76	Z	.586	.586	0	%100
23	M77	X	-1.379	-1.379	0	%100
24	M77	Z	.796	.796	0	%100
25	M80	X	-1.453	-1.453	0	%100
26	M80	Z	.839	.839	0	%100
27	M84	X	-1.016	-1.016	0	%100
28	M84	Z	.586	.586	0	%100
29	M85	X	-.345	-.345	0	%100
30	M85	Z	.199	.199	0	%100
31	M91	X	-.363	-.363	0	%100
32	M91	Z	.21	.21	0	%100
33	MP3A	X	-.536	-.536	0	%100
34	MP3A	Z	.309	.309	0	%100
35	M36	X	-.765	-.765	0	%100
36	M36	Z	.442	.442	0	%100
37	M37A	X	-.191	-.191	0	%100
38	M37A	Z	.11	.11	0	%100
39	M38A	X	0	0	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	-.679	-.679	0	%100
42	M39	Z	.392	.392	0	%100
43	M40	X	-.679	-.679	0	%100
44	M40	Z	.392	.392	0	%100
45	M41	X	-1.354	-1.354	0	%100
46	M41	Z	.782	.782	0	%100
47	M42	X	-.188	-.188	0	%100
48	M42	Z	.109	.109	0	%100
49	M43A	X	-.188	-.188	0	%100
50	M43A	Z	.109	.109	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-.345	-.345	0	%100
54	M48	Z	.199	.199	0	%100
55	M50A	X	-.363	-.363	0	%100
56	M50A	Z	.21	.21	0	%100
57	M52A	X	0	0	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	-.345	-.345	0	%100
60	M53	Z	.199	.199	0	%100
61	M55	X	-.363	-.363	0	%100
62	M55	Z	.21	.21	0	%100
63	M60	X	-.438	-.438	0	%100
64	M60	Z	.253	.253	0	%100
65	M64	X	-.602	-.602	0	%100
66	M64	Z	.347	.347	0	%100
67	M65	X	-.17	-.17	0	%100
68	M65	Z	.098	.098	0	%100
69	M66	X	-.17	-.17	0	%100
70	M66	Z	.098	.098	0	%100
71	M67	X	-.339	-.339	0	%100
72	M67	Z	.195	.195	0	%100
73	M68	X	-.188	-.188	0	%100
74	M68	Z	.109	.109	0	%100
75	M69	X	-.752	-.752	0	%100
76	M69	Z	.434	.434	0	%100
77	M73	X	-1.016	-1.016	0	%100
78	M73	Z	.586	.586	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
79	M74	X	-.345	-.345	0	%100
80	M74	Z	.199	.199	0	%100
81	M76A	X	-.363	-.363	0	%100
82	M76A	Z	.21	.21	0	%100
83	M78	X	-1.016	-1.016	0	%100
84	M78	Z	.586	.586	0	%100
85	M79A	X	-1.379	-1.379	0	%100
86	M79A	Z	.796	.796	0	%100
87	M81	X	-1.453	-1.453	0	%100
88	M81	Z	.839	.839	0	%100
89	MP4C	X	-.536	-.536	0	%100
90	MP4C	Z	.309	.309	0	%100
91	MP2C	X	-.536	-.536	0	%100
92	MP2C	Z	.309	.309	0	%100
93	MP1C	X	-.536	-.536	0	%100
94	MP1C	Z	.309	.309	0	%100
95	MP3C	X	-.536	-.536	0	%100
96	MP3C	Z	.309	.309	0	%100
97	MP4B	X	-.536	-.536	0	%100
98	MP4B	Z	.309	.309	0	%100
99	MP2B	X	-.536	-.536	0	%100
100	MP2B	Z	.309	.309	0	%100
101	MP1B	X	-.536	-.536	0	%100
102	MP1B	Z	.309	.309	0	%100
103	MP3B	X	-.536	-.536	0	%100
104	MP3B	Z	.309	.309	0	%100
105	M102	X	-.191	-.191	0	%100
106	M102	Z	.11	.11	0	%100
107	M107	X	-.765	-.765	0	%100
108	M107	Z	.442	.442	0	%100
109	M108	X	-.191	-.191	0	%100
110	M108	Z	.11	.11	0	%100
111	M119	X	-.182	-.182	0	%100
112	M119	Z	.105	.105	0	%100
113	M120	X	-.729	-.729	0	%100
114	M120	Z	.421	.421	0	%100
115	M121A	X	-.182	-.182	0	%100
116	M121A	Z	.105	.105	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.927	-.927	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP4A	X	-.619	-.619	0	%100
8	MP4A	Z	0	0	0	%100
9	MP2A	X	-.619	-.619	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-.619	-.619	0	%100
12	MP1A	Z	0	0	0	%100
13	M43	X	0	0	0	%100
14	M43	Z	0	0	0	%100
15	M46	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
16	M46	Z	0	0	0	%100
17	M51B	X	-.652	-.652	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	-.652	-.652	0	%100
20	M52B	Z	0	0	0	%100
21	M76	X	-1.564	-1.564	0	%100
22	M76	Z	0	0	0	%100
23	M77	X	-1.195	-1.195	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	-1.258	-1.258	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	-1.564	-1.564	0	%100
28	M84	Z	0	0	0	%100
29	M85	X	-1.195	-1.195	0	%100
30	M85	Z	0	0	0	%100
31	M91	X	-1.258	-1.258	0	%100
32	M91	Z	0	0	0	%100
33	MP3A	X	-.619	-.619	0	%100
34	MP3A	Z	0	0	0	%100
35	M36	X	-.663	-.663	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	-.663	-.663	0	%100
38	M37A	Z	0	0	0	%100
39	M38A	X	-.232	-.232	0	%100
40	M38A	Z	0	0	0	%100
41	M39	X	-.588	-.588	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	-.588	-.588	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	-1.173	-1.173	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	-.652	-.652	0	%100
48	M42	Z	0	0	0	%100
49	M43A	X	0	0	0	%100
50	M43A	Z	0	0	0	%100
51	M47	X	-.391	-.391	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-1.195	-1.195	0	%100
54	M48	Z	0	0	0	%100
55	M50A	X	-1.258	-1.258	0	%100
56	M50A	Z	0	0	0	%100
57	M52A	X	-.391	-.391	0	%100
58	M52A	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M55	X	0	0	0	%100
62	M55	Z	0	0	0	%100
63	M60	X	-.506	-.506	0	%100
64	M60	Z	0	0	0	%100
65	M64	X	-.232	-.232	0	%100
66	M64	Z	0	0	0	%100
67	M65	X	-.588	-.588	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-.588	-.588	0	%100
70	M66	Z	0	0	0	%100
71	M67	X	-1.173	-1.173	0	%100
72	M67	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
73	M68	X	0	0	0	%100
74	M68	Z	0	0	0	%100
75	M69	X	-.652	-.652	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	-.391	-.391	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	0	0	0	%100
80	M74	Z	0	0	0	%100
81	M76A	X	0	0	0	%100
82	M76A	Z	0	0	0	%100
83	M78	X	-.391	-.391	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	-1.195	-1.195	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	-1.258	-1.258	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	-.619	-.619	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-.619	-.619	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-.619	-.619	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3C	X	-.619	-.619	0	%100
96	MP3C	Z	0	0	0	%100
97	MP4B	X	-.619	-.619	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-.619	-.619	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.619	-.619	0	%100
102	MP1B	Z	0	0	0	%100
103	MP3B	X	-.619	-.619	0	%100
104	MP3B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	-.663	-.663	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	-.663	-.663	0	%100
110	M108	Z	0	0	0	%100
111	M119	X	0	0	0	%100
112	M119	Z	0	0	0	%100
113	M120	X	-.631	-.631	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	-.631	-.631	0	%100
116	M121A	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[in,%]	End Location[in,%]
1	M1	X	-.191	-.191	0	%100
2	M1	Z	-.11	-.11	0	%100
3	M4	X	-.602	-.602	0	%100
4	M4	Z	-.347	-.347	0	%100
5	M10	X	-.17	-.17	0	%100
6	M10	Z	-.098	-.098	0	%100
7	MP4A	X	-.536	-.536	0	%100
8	MP4A	Z	-.309	-.309	0	%100
9	MP2A	X	-.536	-.536	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[in,%]	End Location[in,%]
10	MP2A	Z	-.309	-.309	0	%100
11	MP1A	X	-.536	-.536	0	%100
12	MP1A	Z	-.309	-.309	0	%100
13	M43	X	-.17	-.17	0	%100
14	M43	Z	-.098	-.098	0	%100
15	M46	X	-.339	-.339	0	%100
16	M46	Z	-.195	-.195	0	%100
17	M51B	X	-.188	-.188	0	%100
18	M51B	Z	-.109	-.109	0	%100
19	M52B	X	-.752	-.752	0	%100
20	M52B	Z	-.434	-.434	0	%100
21	M76	X	-1.016	-1.016	0	%100
22	M76	Z	-.586	-.586	0	%100
23	M77	X	-.345	-.345	0	%100
24	M77	Z	-.199	-.199	0	%100
25	M80	X	-.363	-.363	0	%100
26	M80	Z	-.21	-.21	0	%100
27	M84	X	-1.016	-1.016	0	%100
28	M84	Z	-.586	-.586	0	%100
29	M85	X	-1.379	-1.379	0	%100
30	M85	Z	-.796	-.796	0	%100
31	M91	X	-1.453	-1.453	0	%100
32	M91	Z	-.839	-.839	0	%100
33	MP3A	X	-.536	-.536	0	%100
34	MP3A	Z	-.309	-.309	0	%100
35	M36	X	-.191	-.191	0	%100
36	M36	Z	-.11	-.11	0	%100
37	M37A	X	-.765	-.765	0	%100
38	M37A	Z	-.442	-.442	0	%100
39	M38A	X	-.602	-.602	0	%100
40	M38A	Z	-.347	-.347	0	%100
41	M39	X	-.17	-.17	0	%100
42	M39	Z	-.098	-.098	0	%100
43	M40	X	-.17	-.17	0	%100
44	M40	Z	-.098	-.098	0	%100
45	M41	X	-.339	-.339	0	%100
46	M41	Z	-.195	-.195	0	%100
47	M42	X	-.752	-.752	0	%100
48	M42	Z	-.434	-.434	0	%100
49	M43A	X	-.188	-.188	0	%100
50	M43A	Z	-.109	-.109	0	%100
51	M47	X	-1.016	-1.016	0	%100
52	M47	Z	-.586	-.586	0	%100
53	M48	X	-1.379	-1.379	0	%100
54	M48	Z	-.796	-.796	0	%100
55	M50A	X	-1.453	-1.453	0	%100
56	M50A	Z	-.839	-.839	0	%100
57	M52A	X	-1.016	-1.016	0	%100
58	M52A	Z	-.586	-.586	0	%100
59	M53	X	-.345	-.345	0	%100
60	M53	Z	-.199	-.199	0	%100
61	M55	X	-.363	-.363	0	%100
62	M55	Z	-.21	-.21	0	%100
63	M60	X	-.438	-.438	0	%100
64	M60	Z	-.253	-.253	0	%100
65	M64	X	0	0	0	%100
66	M64	Z	0	0	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[in,%]	End Location[in,%]
67	M65	X	-.679	-.679	0	%100
68	M65	Z	-.392	-.392	0	%100
69	M66	X	-.679	-.679	0	%100
70	M66	Z	-.392	-.392	0	%100
71	M67	X	-1.354	-1.354	0	%100
72	M67	Z	-.782	-.782	0	%100
73	M68	X	-.188	-.188	0	%100
74	M68	Z	-.109	-.109	0	%100
75	M69	X	-.188	-.188	0	%100
76	M69	Z	-.109	-.109	0	%100
77	M73	X	0	0	0	%100
78	M73	Z	0	0	0	%100
79	M74	X	-.345	-.345	0	%100
80	M74	Z	-.199	-.199	0	%100
81	M76A	X	-.363	-.363	0	%100
82	M76A	Z	-.21	-.21	0	%100
83	M78	X	0	0	0	%100
84	M78	Z	0	0	0	%100
85	M79A	X	-.345	-.345	0	%100
86	M79A	Z	-.199	-.199	0	%100
87	M81	X	-.363	-.363	0	%100
88	M81	Z	-.21	-.21	0	%100
89	MP4C	X	-.536	-.536	0	%100
90	MP4C	Z	-.309	-.309	0	%100
91	MP2C	X	-.536	-.536	0	%100
92	MP2C	Z	-.309	-.309	0	%100
93	MP1C	X	-.536	-.536	0	%100
94	MP1C	Z	-.309	-.309	0	%100
95	MP3C	X	-.536	-.536	0	%100
96	MP3C	Z	-.309	-.309	0	%100
97	MP4B	X	-.536	-.536	0	%100
98	MP4B	Z	-.309	-.309	0	%100
99	MP2B	X	-.536	-.536	0	%100
100	MP2B	Z	-.309	-.309	0	%100
101	MP1B	X	-.536	-.536	0	%100
102	MP1B	Z	-.309	-.309	0	%100
103	MP3B	X	-.536	-.536	0	%100
104	MP3B	Z	-.309	-.309	0	%100
105	M102	X	-.191	-.191	0	%100
106	M102	Z	-.11	-.11	0	%100
107	M107	X	-.191	-.191	0	%100
108	M107	Z	-.11	-.11	0	%100
109	M108	X	-.765	-.765	0	%100
110	M108	Z	-.442	-.442	0	%100
111	M119	X	-.182	-.182	0	%100
112	M119	Z	-.105	-.105	0	%100
113	M120	X	-.182	-.182	0	%100
114	M120	Z	-.105	-.105	0	%100
115	M121A	X	-.729	-.729	0	%100
116	M121A	Z	-.421	-.421	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[in,%]	End Location[in,%]
1	M1	X	-.331	-.331	0	%100
2	M1	Z	-.574	-.574	0	%100
3	M4	X	-.116	-.116	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[in,%]	End Location[in,%]
4	M4	Z	-.201	-.201	0	%100
5	M10	X	-.294	-.294	0	%100
6	M10	Z	-.509	-.509	0	%100
7	MP4A	X	-.309	-.309	0	%100
8	MP4A	Z	-.536	-.536	0	%100
9	MP2A	X	-.309	-.309	0	%100
10	MP2A	Z	-.536	-.536	0	%100
11	MP1A	X	-.309	-.309	0	%100
12	MP1A	Z	-.536	-.536	0	%100
13	M43	X	-.294	-.294	0	%100
14	M43	Z	-.509	-.509	0	%100
15	M46	X	-.586	-.586	0	%100
16	M46	Z	-1.016	-1.016	0	%100
17	M51B	X	0	0	0	%100
18	M51B	Z	0	0	0	%100
19	M52B	X	-.326	-.326	0	%100
20	M52B	Z	-.564	-.564	0	%100
21	M76	X	-.195	-.195	0	%100
22	M76	Z	-.339	-.339	0	%100
23	M77	X	0	0	0	%100
24	M77	Z	0	0	0	%100
25	M80	X	0	0	0	%100
26	M80	Z	0	0	0	%100
27	M84	X	-.195	-.195	0	%100
28	M84	Z	-.339	-.339	0	%100
29	M85	X	-.597	-.597	0	%100
30	M85	Z	-1.035	-1.035	0	%100
31	M91	X	-.629	-.629	0	%100
32	M91	Z	-1.09	-1.09	0	%100
33	MP3A	X	-.309	-.309	0	%100
34	MP3A	Z	-.536	-.536	0	%100
35	M36	X	0	0	0	%100
36	M36	Z	0	0	0	%100
37	M37A	X	-.331	-.331	0	%100
38	M37A	Z	-.574	-.574	0	%100
39	M38A	X	-.463	-.463	0	%100
40	M38A	Z	-.802	-.802	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M41	X	0	0	0	%100
46	M41	Z	0	0	0	%100
47	M42	X	-.326	-.326	0	%100
48	M42	Z	-.564	-.564	0	%100
49	M43A	X	-.326	-.326	0	%100
50	M43A	Z	-.564	-.564	0	%100
51	M47	X	-.782	-.782	0	%100
52	M47	Z	-1.354	-1.354	0	%100
53	M48	X	-.597	-.597	0	%100
54	M48	Z	-1.035	-1.035	0	%100
55	M50A	X	-.629	-.629	0	%100
56	M50A	Z	-1.09	-1.09	0	%100
57	M52A	X	-.782	-.782	0	%100
58	M52A	Z	-1.354	-1.354	0	%100
59	M53	X	-.597	-.597	0	%100
60	M53	Z	-1.035	-1.035	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[in,%]	End Location[in,%]
61	M55	X	-.629	-.629	0	%100
62	M55	Z	-1.09	-1.09	0	%100
63	M60	X	-.253	-.253	0	%100
64	M60	Z	-.438	-.438	0	%100
65	M64	X	-.116	-.116	0	%100
66	M64	Z	-.201	-.201	0	%100
67	M65	X	-.294	-.294	0	%100
68	M65	Z	-.509	-.509	0	%100
69	M66	X	-.294	-.294	0	%100
70	M66	Z	-.509	-.509	0	%100
71	M67	X	-.586	-.586	0	%100
72	M67	Z	-1.016	-1.016	0	%100
73	M68	X	-.326	-.326	0	%100
74	M68	Z	-.564	-.564	0	%100
75	M69	X	0	0	0	%100
76	M69	Z	0	0	0	%100
77	M73	X	-.195	-.195	0	%100
78	M73	Z	-.339	-.339	0	%100
79	M74	X	-.597	-.597	0	%100
80	M74	Z	-1.035	-1.035	0	%100
81	M76A	X	-.629	-.629	0	%100
82	M76A	Z	-1.09	-1.09	0	%100
83	M78	X	-.195	-.195	0	%100
84	M78	Z	-.339	-.339	0	%100
85	M79A	X	0	0	0	%100
86	M79A	Z	0	0	0	%100
87	M81	X	0	0	0	%100
88	M81	Z	0	0	0	%100
89	MP4C	X	-.309	-.309	0	%100
90	MP4C	Z	-.536	-.536	0	%100
91	MP2C	X	-.309	-.309	0	%100
92	MP2C	Z	-.536	-.536	0	%100
93	MP1C	X	-.309	-.309	0	%100
94	MP1C	Z	-.536	-.536	0	%100
95	MP3C	X	-.309	-.309	0	%100
96	MP3C	Z	-.536	-.536	0	%100
97	MP4B	X	-.309	-.309	0	%100
98	MP4B	Z	-.536	-.536	0	%100
99	MP2B	X	-.309	-.309	0	%100
100	MP2B	Z	-.536	-.536	0	%100
101	MP1B	X	-.309	-.309	0	%100
102	MP1B	Z	-.536	-.536	0	%100
103	MP3B	X	-.309	-.309	0	%100
104	MP3B	Z	-.536	-.536	0	%100
105	M102	X	-.331	-.331	0	%100
106	M102	Z	-.574	-.574	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M108	X	-.331	-.331	0	%100
110	M108	Z	-.574	-.574	0	%100
111	M119	X	-.316	-.316	0	%100
112	M119	Z	-.547	-.547	0	%100
113	M120	X	0	0	0	%100
114	M120	Z	0	0	0	%100
115	M121A	X	-.316	-.316	0	%100
116	M121A	Z	-.547	-.547	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M68	Y	-1.875	-4.439	0	10.046
2	M68	Y	-4.439	-7.072	10.046	20.092
3	M68	Y	-7.072	-8.299	20.092	30.138
4	M68	Y	-8.299	-6.617	30.138	40.184
5	M68	Y	-6.617	-3.497	40.184	50.229
6	M69	Y	-1.662	-4.238	0	10.046
7	M69	Y	-4.238	-6.93	10.046	20.092
8	M69	Y	-6.93	-8.232	20.092	30.138
9	M69	Y	-8.232	-6.584	30.138	40.184
10	M69	Y	-6.584	-3.49	40.184	50.229
11	M51B	Y	-1.662	-4.238	0	10.046
12	M51B	Y	-4.238	-6.93	10.046	20.092
13	M51B	Y	-6.93	-8.232	20.092	30.138
14	M51B	Y	-8.232	-6.584	30.138	40.184
15	M51B	Y	-6.584	-3.49	40.184	50.229
16	M52B	Y	-1.875	-4.439	0	10.046
17	M52B	Y	-4.439	-7.072	10.046	20.092
18	M52B	Y	-7.072	-8.299	20.092	30.138
19	M52B	Y	-8.299	-6.617	30.138	40.184
20	M52B	Y	-6.617	-3.497	40.184	50.229
21	M42	Y	-1.662	-4.238	0	10.046
22	M42	Y	-4.238	-6.93	10.046	20.092
23	M42	Y	-6.93	-8.232	20.092	30.138
24	M42	Y	-8.232	-6.584	30.138	40.184
25	M42	Y	-6.584	-3.49	40.184	50.229
26	M43A	Y	-1.875	-4.439	0	10.046
27	M43A	Y	-4.439	-7.072	10.046	20.092
28	M43A	Y	-7.072	-8.299	20.092	30.138
29	M43A	Y	-8.299	-6.617	30.138	40.184
30	M43A	Y	-6.617	-3.497	40.184	50.229

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M68	Y	-3.613	-8.555	0	10.046
2	M68	Y	-8.555	-13.628	10.046	20.092
3	M68	Y	-13.628	-15.994	20.092	30.138
4	M68	Y	-15.994	-12.752	30.138	40.184
5	M68	Y	-12.752	-6.74	40.184	50.229
6	M69	Y	-3.202	-8.167	0	10.046
7	M69	Y	-8.167	-13.355	10.046	20.092
8	M69	Y	-13.355	-15.864	20.092	30.138
9	M69	Y	-15.864	-12.688	30.138	40.184
10	M69	Y	-12.688	-6.726	40.184	50.229
11	M51B	Y	-3.202	-8.167	0	10.046
12	M51B	Y	-8.167	-13.355	10.046	20.092
13	M51B	Y	-13.355	-15.864	20.092	30.138
14	M51B	Y	-15.864	-12.688	30.138	40.184
15	M51B	Y	-12.688	-6.726	40.184	50.229
16	M52B	Y	-3.613	-8.555	0	10.046
17	M52B	Y	-8.555	-13.628	10.046	20.092
18	M52B	Y	-13.628	-15.994	20.092	30.138
19	M52B	Y	-15.994	-12.752	30.138	40.184
20	M52B	Y	-12.752	-6.74	40.184	50.229
21	M42	Y	-3.202	-8.167	0	10.046
22	M42	Y	-8.167	-13.355	10.046	20.092
23	M42	Y	-13.355	-15.864	20.092	30.138

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
24	M42	Y	-15.864	-12.688	30.138	40.184
25	M42	Y	-12.688	-6.726	40.184	50.229
26	M43A	Y	-3.613	-8.555	0	10.046
27	M43A	Y	-8.555	-13.628	10.046	20.092
28	M43A	Y	-13.628	-15.994	20.092	30.138
29	M43A	Y	-15.994	-12.752	30.138	40.184
30	M43A	Y	-12.752	-6.74	40.184	50.229

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N119	N118	N112	N110	Y	Two Way	-.005
2	N57	N87C	N87B	N56	Y	Two Way	-.005
3	N85	N86	N77	N79	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N119	N118	N112	N110	Y	Two Way	-.01
2	N57	N87C	N87B	N56	Y	Two Way	-.01
3	N85	N86	N77	N79	Y	Two Way	-.01

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	N3	max	1235.296	10	2615.318	13	2905.716	1	5.715	1	1.491	4	.117	12
2		min	-1247.487	4	-257.353	7	-3088.726	7	-1.901	7	-1.513	10	-.71	42
3	N56C	max	2506.578	9	2630.299	21	1915.281	1	.736	3	1.402	12	1.904	3
4		min	-2662.703	3	-211.479	3	-1813.468	7	-2.817	9	-1.427	6	-5.068	9
5	N89	max	2640.267	11	2512.17	17	1524.83	12	1.26	11	1.228	8	4.906	5
6		min	-2472.42	5	-280.591	11	-1440.598	6	-2.884	5	-1.248	2	-1.578	11
7	Totals:	max	6250.101	10	6906.822	13	6283.914	1						
8		min	-6250.102	4	3083.028	7	-6283.911	7						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	PIPE_3.0	.192	73.438	3	.130	51.563		6	28250.5...	65205	5.749	5.749	1....	H1-1b
2	M4	HSS4X4X4	.371	0	1	.100	0	y	38	124657....	139518	16.181	16.181	2....	H1-1b
3	M10	HSS4X4X4	.184	28.5	1	.056	2.375	z	1	136263....	139518	16.181	16.181	1....	H1-1b
4	MP4A	PIPE_2.0	.318	21	7	.198	21		7	20866.7...	32130	1.872	1.872	4....	H1-1b
5	MP2A	PIPE_2.5	.428	54	4	.117	54		4	37773.8...	50715	3.596	3.596	2....	H1-1b
6	MP1A	PIPE_2.0	.438	51	9	.209	44.25		8	20866.7...	32130	1.872	1.872	3....	H1-1b
7	M43	HSS4X4X4	.185	0	12	.061	26.125	z	1	136263....	139518	16.181	16.181	1....	H1-1b
8	M46	PL1/2x6	.209	6.188	1	.139	6.188	y	3	66009.2...	97200	1.012	12.15	1....	H1-1b
9	M51B	L2x2x3	.173	50.229	1	.012	50.229	y	16	9724.796	23392.8	.558	1.076	1....	H2-1
10	M52B	L2x2x3	.189	19.359	12	.012	0	z	22	9724.796	23392.8	.558	1.185	1....	H2-1
11	M76	PL7/16x6	.339	0	11	.287	0	y	17	83137.5...	85050	.775	10.631	1....	H1-1b
12	M77	PL7/16x6	.229	2	7	.254	0	y	13	83934.5...	85050	.775	10.631	1....	H1-1b
13	M80	PL1/2x6	.083	1.344	1	.093	1.344	y	5	96757.5...	97200	1.012	12.15	1....	H1-1b
14	M84	PL7/16x6	.319	0	10	.180	0	y	21	83137.5...	85050	.775	10.631	1....	H1-1b
15	M85	PL7/16x6	.226	2	7	.270	0	y	24	83934.5...	85050	.775	10.631	1....	H1-1b
16	M91	PL1/2x6	.081	1.344	1	.119	0	y	3	96757.5...	97200	1.012	12.15	1....	H1-1b
17	MP3A	PIPE_2.0	.416	54	5	.158	54		7	20866.7...	32130	1.872	1.872	1....	H1-1b
18	M36	PIPE_3.0	.189	73.437	11	.140	51.562		2	28250.5...	65205	5.749	5.749	1....	H1-1b
19	M37A	PIPE_3.0	.191	73.437	7	.133	51.562		10	28250.5...	65205	5.749	5.749	1....	H1-1b

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

	Member	Shape	Code Check	Loc[in]	LC	Shear ..	Loc[in]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y..	phi*Mn z..	Cb	Eqn
20	M38A	HSS4X4X4	.369	0	9	.079	0	y	21	124657....	139518	16.181	16.181	2....	H1-1b
21	M39	HSS4X4X4	.183	28.5	9	.055	2.375	z	9	136263....	139518	16.181	16.181	1....	H1-1b
22	M40	HSS4X4X4	.178	0	8	.057	26.125	z	9	136263....	139518	16.181	16.181	1....	H1-1b
23	M41	PL1/2x6	.211	6.188	9	.139	6.188	y	11	66009.2...	97200	1.012	12.15	1....	H1-1b
24	M42	L2x2x3	.170	50.229	9	.012	50.229	y	24	9724.796	23392.8	.558	1.076	1....	H2-1
25	M43A	L2x2x3	.176	19.882	8	.013	0	z	18	9724.796	23392.8	.558	1.185	1....	H2-1
26	M47	PL7/16x6	.360	0	7	.279	0	y	13	83137.5...	85050	.775	10.631	1....	H1-1b
27	M48	PL7/16x6	.229	2	3	.243	0	y	21	83934.5...	85050	.775	10.631	1....	H1-1b
28	M50A	PL1/2x6	.083	1.344	9	.092	1.344	y	1	96757.5...	97200	1.012	12.15	1....	H1-1b
29	M52A	PL7/16x6	.343	0	6	.177	0	y	17	83137.5...	85050	.775	10.631	1....	H1-1b
30	M53	PL7/16x6	.209	2	3	.258	0	y	20	83934.5...	85050	.775	10.631	1....	H1-1b
31	M55	PL1/2x6	.080	1.344	9	.121	0	y	11	96757.5...	97200	1.012	12.15	1....	H1-1b
32	M60	PIPE_2.0	.120	30	6	.019	30		6	28843.4...	32130	1.872	1.872	2....	H1-1b
33	M64	HSS4X4X4	.370	0	5	.082	0	y	18	124657....	139518	16.181	16.181	2....	H1-1b
34	M65	HSS4X4X4	.181	28.5	6	.052	2.375	z	5	136263....	139518	16.181	16.181	1....	H1-1b
35	M66	HSS4X4X4	.184	0	4	.061	26.125	z	5	136263....	139518	16.181	16.181	1....	H1-1b
36	M67	PL1/2x6	.203	6.188	5	.142	6.188	y	8	66009.2...	97200	1.012	12.15	1....	H1-1b
37	M68	L2x2x3	.167	50.229	5	.012	50.229	y	20	9724.796	23392.8	.558	1.076	1....	H2-1
38	M69	L2x2x3	.186	18.836	4	.012	0	z	14	9724.796	23392.8	.558	1.188	1....	H2-1
39	M73	PL7/16x6	.330	0	3	.280	0	y	21	83137.5...	85050	.775	10.631	1....	H1-1b
40	M74	PL7/16x6	.217	2	11	.244	0	y	17	83934.5...	85050	.775	10.631	1....	H1-1b
41	M76A	PL1/2x6	.083	1.344	5	.099	1.344	y	9	96757.5...	97200	1.012	12.15	1....	H1-1b
42	M78	PL7/16x6	.337	0	2	.177	0	y	13	83137.5...	85050	.775	10.631	1....	H1-1b
43	M79A	PL7/16x6	.229	2	11	.261	0	y	16	83934.5...	85050	.775	10.631	1	H1-1b
44	M81	PL1/2x6	.081	1.344	5	.121	0	y	7	96757.5...	97200	1.012	12.15	1....	H1-1b
45	MP4C	PIPE_2.0	.358	21	3	.192	21		3	20866.7...	32130	1.872	1.872	2....	H1-1b
46	MP2C	PIPE_2.5	.431	54	12	.125	35.25		12	37773.8...	50715	3.596	3.596	2....	H1-1b
47	MP1C	PIPE_2.0	.457	51	5	.199	51		4	20866.7...	32130	1.872	1.872	2....	H1-1b
48	MP3C	PIPE_2.0	.431	54	1	.156	54		3	20866.7...	32130	1.872	1.872	2....	H1-1b
49	MP4B	PIPE_2.0	.349	21	11	.188	21		11	20866.7...	32130	1.872	1.872	2....	H1-1b
50	MP2B	PIPE_2.5	.430	54	7	.122	35.25		8	37773.8...	50715	3.596	3.596	2....	H1-1b
51	MP1B	PIPE_2.0	.455	51	1	.207	51		12	20866.7...	32130	1.872	1.872	4....	H1-1b
52	MP3B	PIPE_2.0	.429	54	9	.155	54		11	20866.7...	32130	1.872	1.872	2....	H1-1b
53	M102	PIPE_2.5	.275	17.188	9	.159	134....		7	14558.7...	50715	3.596	3.596	2....	H1-1b
54	M107	PIPE_2.5	.282	17.187	6	.143	134....		3	14558.7...	50715	3.596	3.596	1....	H1-1b
55	M108	PIPE_2.5	.277	17.187	1	.149	134....		12	14558.7...	50715	3.596	3.596	2....	H1-1b
56	M119	L3X3X4	.527	23.244	11	.067	0	y	4	42935.1...	46656	1.688	3.756	2....	H2-1
57	M120	L3X3X4	.519	23.244	7	.067	4.358	y	12	42935.16	46656	1.688	3.756	2....	H2-1
58	M121A	L3X3X4	.541	23.244	3	.066	.242	y	8	42935.1...	46656	1.688	3.756	2....	H2-1

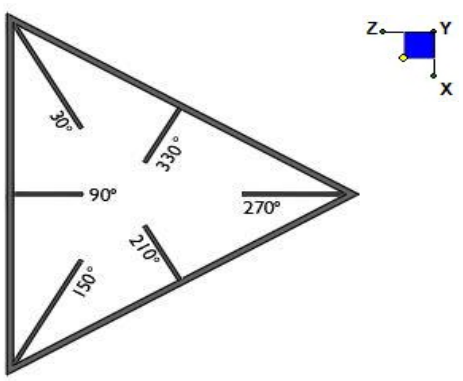
Client:	Verizon Wireless	Date:	6/22/2021
Site Name:	WALLINGFORD 2 CT		
Project No.	21777048A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

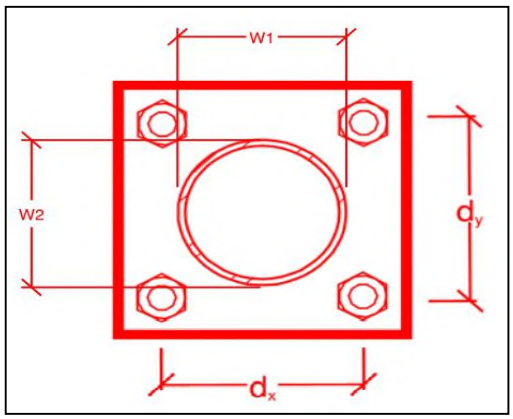
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N3	270
N56C	30
N89	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	7.5
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	7.5
Bolt Type:	A325N
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	21.5
Required Shear Strength (kips):	4.1
Tensile Strength / bolt (kips):	13.3
Shear Strength / bolt (kips):	8.0
Tensile Capacity Overall:	**40.5%***
Shear Capacity Overall:	**12.8%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	10
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.625
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	3.45
Plate Bending Capacity:	**59.7%**
Weld Capacity:	**82.6%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)*:	18.5
Phi*Mn_{xx} *(kip-in)*:	31.6
Mu_{yy} *(kip-in)*:	0.4
Phi*Mn_{yy} *(kip-in)*:	31.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

---

Purpose – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.

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

Base Requirements:

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

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

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

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

Each photo should be time and date stamped

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

Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.

The photos in the file structure should be uploaded **to** https://pmi.vzwsmart.com as depicted on the drawings

Photo Requirements:

Base and "During Installation Photos"

- Base pictures include
  - Photo of Gate Signs showing the tower owner, site name, and number
  - Photo of carrier shelter showing the carrier site name and number if available
  - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
- "During Installation Photos if provided - must be placed only in this folder

Photos taken at ground level

- Overall tower structure before and after installation of the modifications
- Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
    - Photos showing the safety climb wire rope above and below the mount prior to modification.
    - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
    - If the drawings are as specified on the drawings
        - The contractor should provide the packing list or the materials utilized to perform the mount modification
    - If an equivalent is utilized
        - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

☐ The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

☐ The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Contractor to install 36" long P2.0 STD mount pipe on standoff horizontal between Alpha & Beta sector. Attach proposed mount pipe to the standoff with crossover plate (Site Pro 1 – SQCX4-K, or EOR approved equivalent). Contractor shall attach proposed OVP 12" from top of mount pipe.

Prior to the removal of any antennas and associated equipment, the contractor shall verify which existing antennas are serving CDMA technology. The CDMA antennas SHALL NOT be removed. For the purpose of this analysis, the CDMA antennas are assumed to be located in position 1 & 4 (looking from behind the antennas left to right). If actual site conditions differ from this assumption, the contractor is required to notify both Verizon and Maser Consulting before proceeding with their scope of work. Changes in proposed antenna placement and/or mount reanalysis may be required based on in-field location of CDMA antennas.

Contractor to Install safety climb wire clip on existing mount collar such that the existing safety climb wire does not contact the existing mount members.

Response:

Schedule A – Photo & Document File Structure

- VzW Site Number / Name
  - Base & “During Installation” Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety climb – If Present
  - Certifications – Submission of this document including certifications
  - Specific Required Additional Photos

Structure: 467923-VZW - WALLINGFORD 2 CT

Sector: **A** 6/22/2021

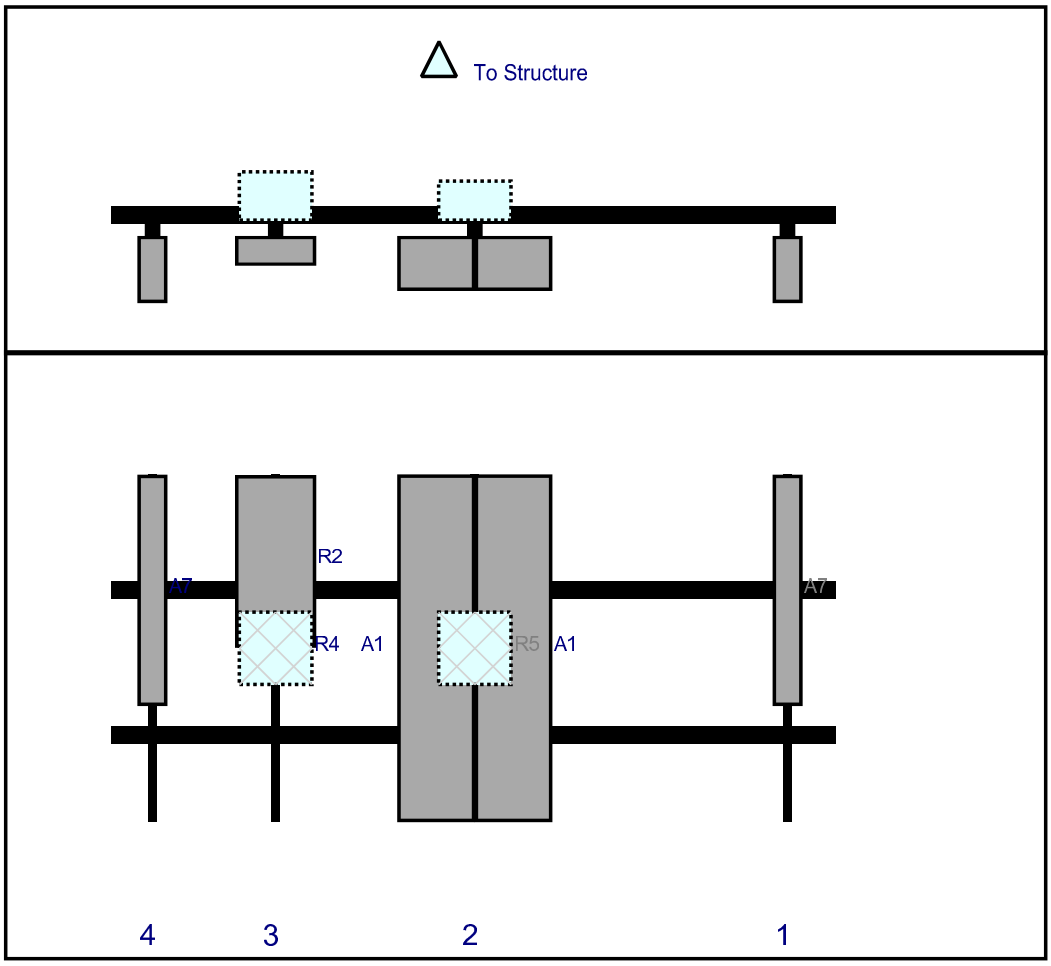
Structure Type: Monopole 10037854

Mount Elev: 130.50 Page: 1

MASER CONSULTING CONNECTICUT

Plan View

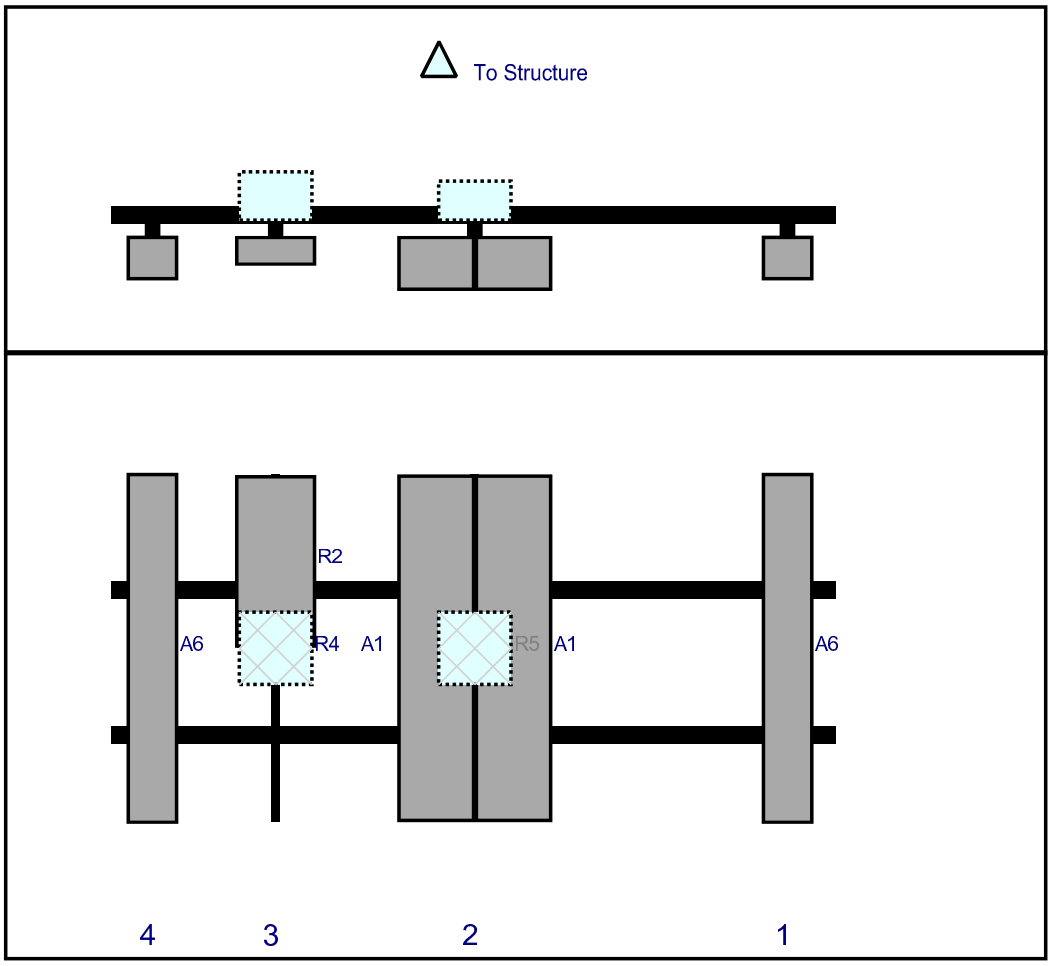
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80080-4CF	47.2	5.5	140	1	a	Front	24	0	Retained	02/20/2021
A1	MX06FRO660-02	71.3	15.4	75.25	2	a	Front	36	8	Added	
A1	MX06FRO660-02	71.3	15.4	75.25	2	b	Front	36	-8	Added	
R5	B5/B13 RRH-BR04C	15	15	75.25	2	a	Behind	36	0	Added	
R2	MT6407-77A	35.1	16.1	34	3	a	Front	18	0	Added	
R4	B2/B66A RRH-BR049	15	15	34	3	a	Behind	36	0	Added	
A7	LPA-80080-4CF	47.2	5.5	8.5	4	a	Front	24	0	Retained	02/20/2021

Plan View

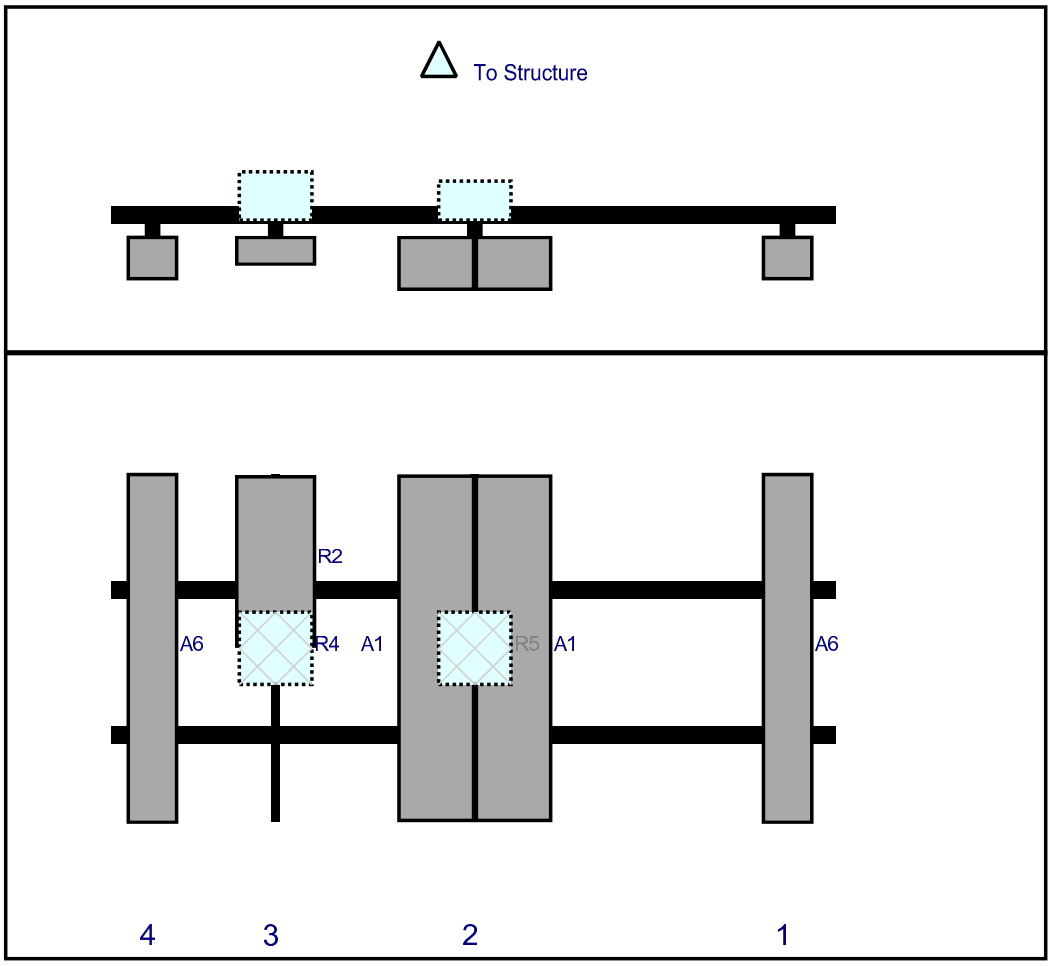
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	DB846F65ZAXY	72	10	140	1	a	Front	36	0	Retained	02/20/2021
A1	MX06FRO660-02	71.3	15.4	75.25	2	a	Front	36	8	Added	
A1	MX06FRO660-02	71.3	15.4	75.25	2	b	Front	36	-8	Added	
R5	B5/B13 RRH-BR04C	15	15	75.25	2	a	Behind	36	0	Added	
R2	MT6407-77A	35.1	16.1	34	3	a	Front	18	0	Added	
R4	B2/B66A RRH-BR049	15	15	34	3	a	Behind	36	0	Added	
A6	DB846F65ZAXY	72	10	8.5	4	a	Front	36	0	Retained	02/20/2021

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	DB846F65ZAXY	72	10	140	1	a	Front	36	0	Retained	02/20/2021
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R2	MT6407-77A	35.1	16.1	34	3	a	Front	18	0	Added	
R4	B2/B66A RRH-BR049	15	15	34	3	a	Behind	36	0	Added	
A6	DB846F65ZAXY	72	10	8.5	4	a	Front	36	0	Retained	02/20/2021

Maser Consulting Connecticut

Subject	*TIA-222-H Usage*	
Site Information	*Site ID:*	*467923-VZW / WALLINGFORD 2 CT*
	Site Name:	*WALLINGFORD 2 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*1605 Durham Road* *Wallingford, Connecticut 06492* *New Haven County*
	Latitude:	*41.469547°*
	Longitude:	*-72.742178°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.50-Ft Platform*

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Taqi Khawaja , PE
Technical Manager

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.50' PLATFORM

SITE NAME: WALLINGFORD 2 CT
SITE NUMBER: 467923

1605 DURHAM ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE:	41.469547° N
LONGITUDE:	72.742178° W
JURISDICTION:	NEW HAVEN COUNTY

APPLICANT/LESSEE

COMPANY:	VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY:	VERIZON WIRELESS
ADDRESS:	118 FLANDERS ROAD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDIELLO@VERIZONWIRELESS.COM

PROJECT MANAGER

COMPANY:	MASER CONSULTING CONNECTICUT
CONTACT:	PETER ALBANO
PHONE:	856-797-0412
E-MAIL:	PETER.ALBANO@COLLIERSENGINEERING.COM

SHEET INDEX

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10074256
VZW LOCATION CODE (PSLC):	467923
FUZE ID:	16272056

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #:	10037854
MASER CONSULTING PROJECT #:	21777084A
ANALYSIS DATE:	5/28/2021

MASER CONSULTING CONNECTICUT
(WILL BE KNOWN AS MASER CONSULTING P.A. EFFECTIVE 7/1/2021)
Customer Loyalty through Client Satisfaction
www.maserconsulting.com
Office Locations:
NEW JERSEY, NEW YORK, PENNSYLVANIA, VIRGINIA, FLORIDA, NORTH CAROLINA, SOUTH CAROLINA, NEW MEXICO, MARYLAND, GEORGIA, TEXAS, TENNESSEE, COLORADO

verizon

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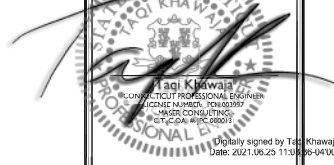
SCALE:	JOB NUMBER:
AS SHOWN	21777084A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK



Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:0[illegible]-04'00'

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

SITE NAME:

WALLINGFORD 2 CT
467923

1605 DURHAM ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

101 LAUREL OFFICE
2000 Atlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
3		VZWSMART-MSK2	CROSSOVER PLATE	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	-	-	36" LONG, P2.0 STD	GALVANIZED
1	SITE PRO 1	SQCX4-K	CROSSOVER PLATE KIT W/ SQUARE U-BOLTS AND STD. U-BOLTS	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION
3	-	-	72" LONG, P2.5 STD	GALVANIZED

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI

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SCALE:	JOB NUMBER:
AS SHOWN	21777084A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031997
MASER CONSULTING
CT. C.O.A. # PEC.0000131
Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:08:42-04'00'

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SITE NAME:
WALLINGFORD 2 CT
467923
1605 DURHAM ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
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Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: S-1

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH

b. EXPOSURE CATEGORY C

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 322.54'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH

b. ICE THICKNESS = 1.00 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B

b. SHORT TERM MCER GROUND MOTION, S_S = .208

c. LONG TERM MCER GROUND MOTION, S_1 = .055

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031997
MASER CONSULTING
CT C.O.A. # PEC.0000013

Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:08:52-04'00'

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2000 Midlantic Drive
Suite 100
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Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: MODIFICATION NOTES

SHEET NUMBER: S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
	CONSTRUCTION
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
	POST-CONSTRUCTION
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

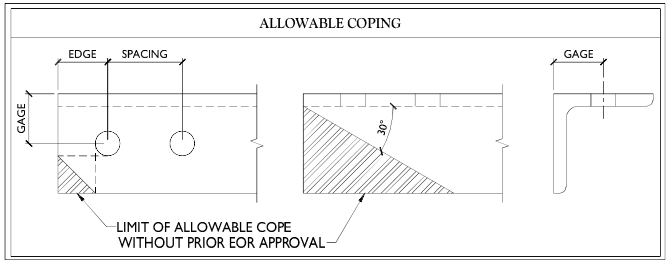
REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - FOUNDATION MODIFICATIONS
  - WELD PREPARATION
  - BOLT INSTALLATION
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
  - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING

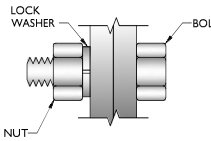


BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031909
MASER CONSULTING P.A.
CT-C-0416-PEC.0000121

Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:08:42-04'00'

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467923

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NEW HAVEN COUNTY

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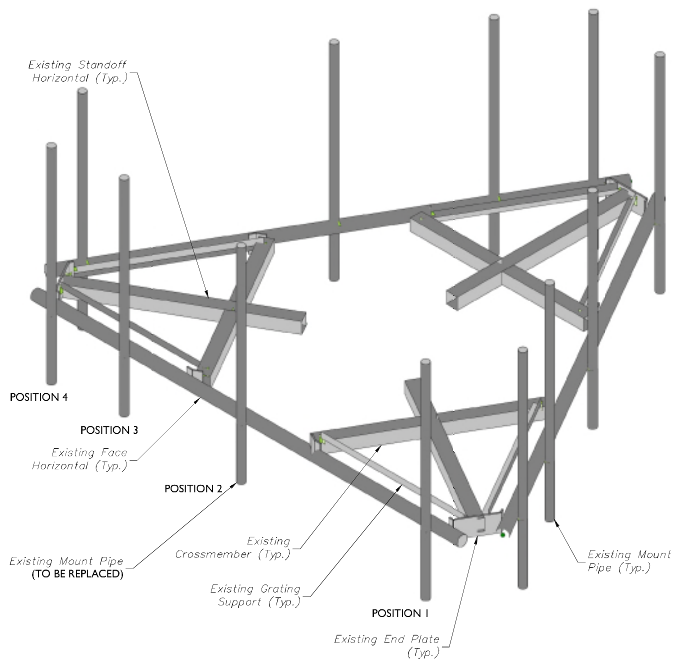
SHEET TITLE: MODIFICATION NOTES

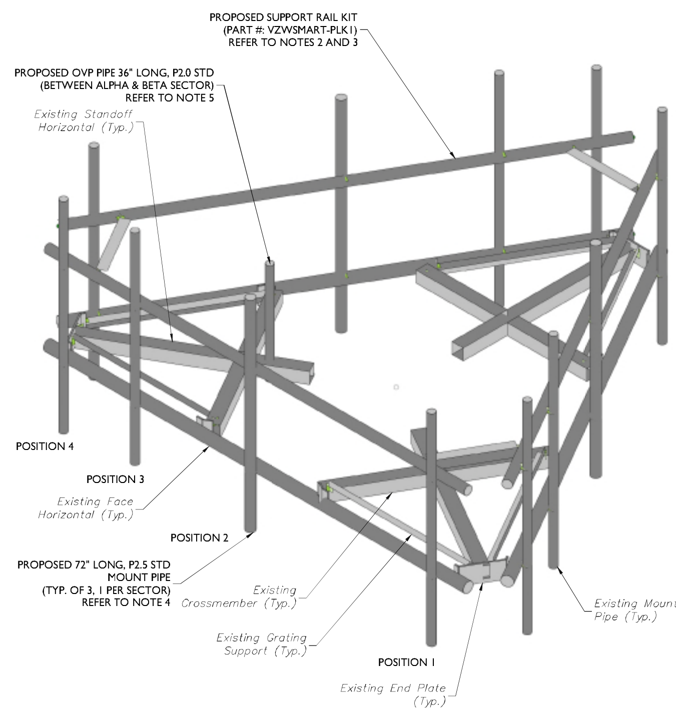
SHEET NUMBER: S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



① EXISTING PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.



② PROPOSED PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY LEVEL-UP TOWERS ON 2/20/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (130'-6") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
5. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).

MASER CONSULTING CONNECTICUT
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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE:	JOB NUMBER:
AS SHOWN	21777084A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK

STATE OF CONNECTICUT
Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.003997
MASER CONSULTING
CT C.O.A. # PEC.0000013
Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:08:42-04'00'

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

SITE NAME:

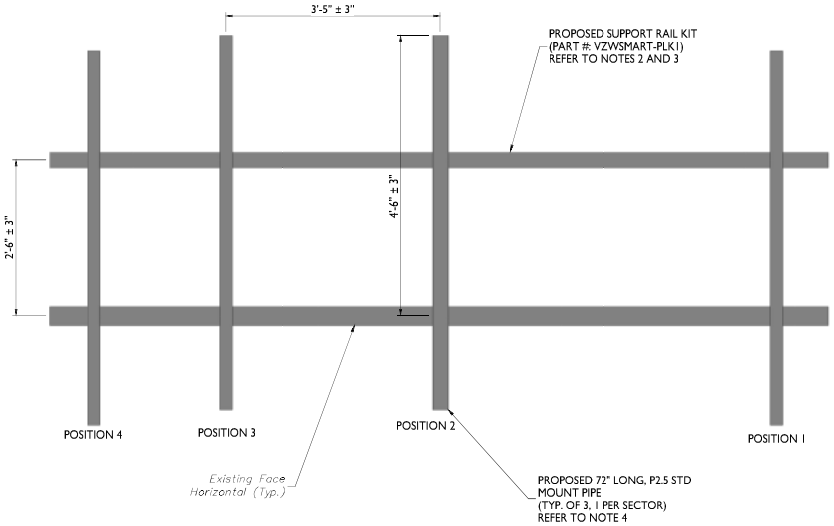
WALLINGFORD 2 CT
467923

1605 DURHAM ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

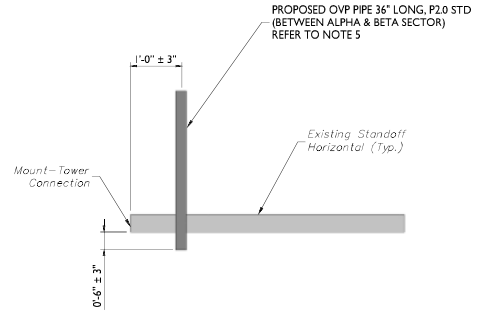
SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-4



1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION

SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
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SCALE:	JOB NUMBER:
AS SHOWN	21777084A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031957
MASER CONSULTING
CT C.O.A. #PSC.0000113
Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:0[illegible]

SITE NAME:

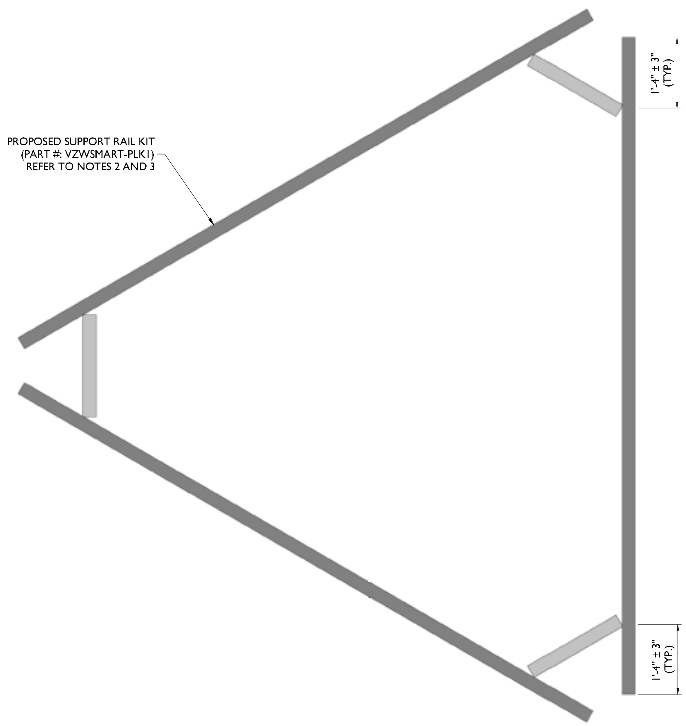
WALLINGFORD 2 CT
467923

1605 DURHAM ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

101 LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

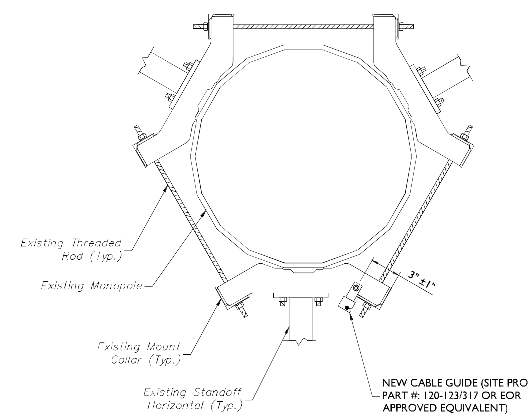
SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-5



4 PROPOSED PLAN VIEW

SCALE : N.T.S.



3 PROPOSED CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW

SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
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SCALE:	JOB NUMBER:
AS SHOWN	21777084A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK

STATE OF CONNECTICUT
TAQI KHAWAJA
PROFESSIONAL ENGINEER
Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.0031997
MASER CONSULTING
CT C.O.A. #: PEC.0000131
Digitally signed by Taqi Khawaja
Date: 2021.06.25 11:08:43-04'00'

SITE NAME:

WALLINGFORD 2 CT
467923

1605 DURHAM ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-6

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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SCALE:	JOB NUMBER:
AS SHOWN	21777084A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	6/24/2021	ISSUED FOR CONSTRUCTION	SC	TK

Taqi Khawaja
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: PEN.003997
MASER CONSULTING
CT. C.O.A. # PEC.0000131
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467923
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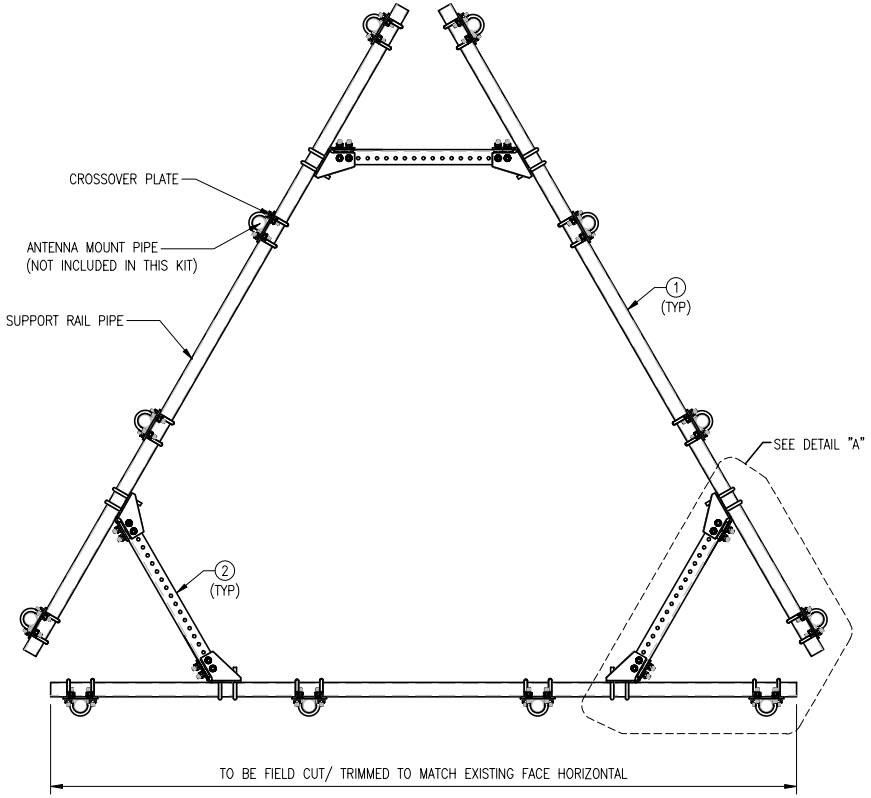
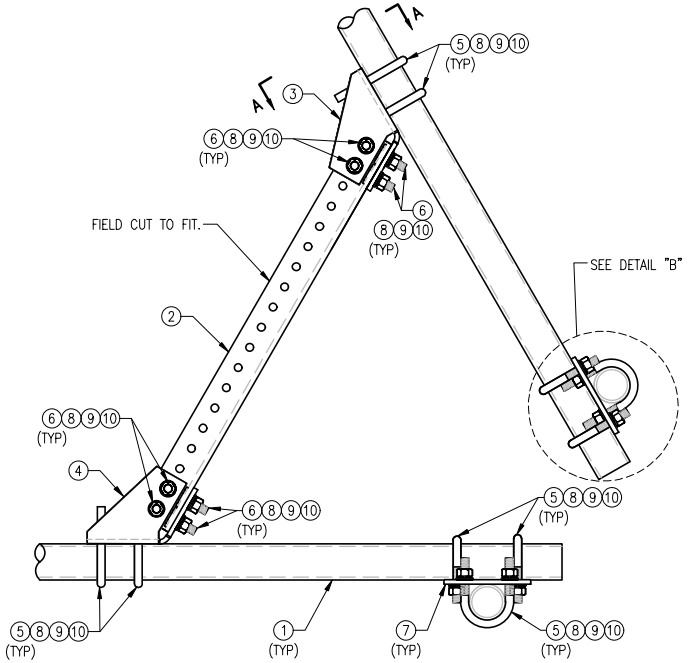
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MOUNT PHOTOS

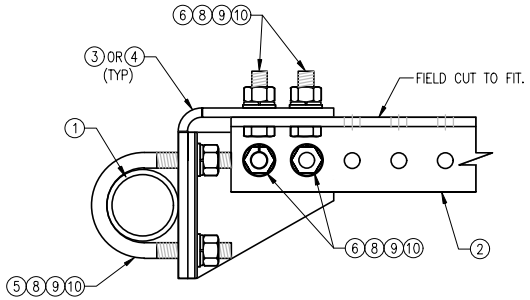
SHEET NUMBER:
S-7



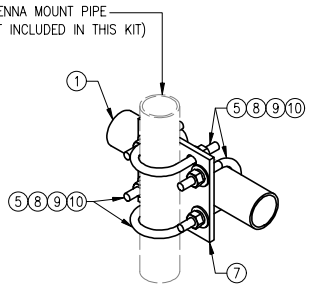
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
				GALVANIZED WT	504

VzW SMART Tool© Vendor

verizon

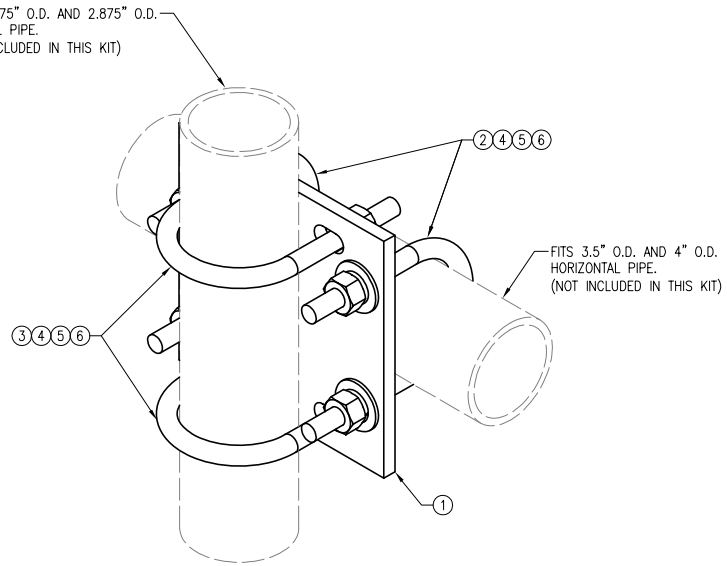
DRAWN BY: H.R	CHECKED BY: HMA

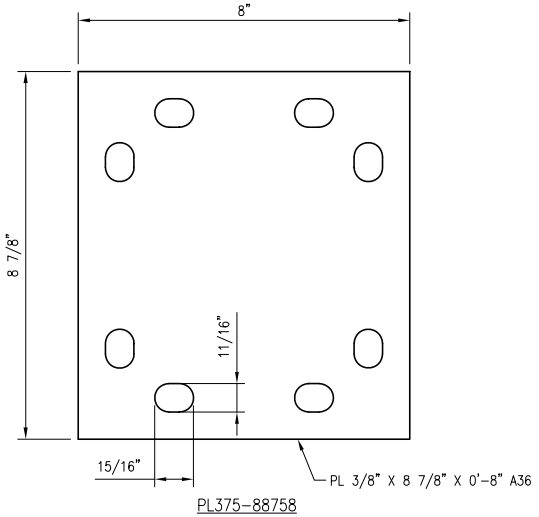
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1

REV #: 0





PL375-88758

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-MSK2 (CROSSOVER PLATE)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
5	8	LW-625	5/8" HDG LOCK WASHER	---	0
6	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	15

VzW SMART Tool© Vendor

verizon

DRAWN BY: H.R | CHECKED BY: HMA

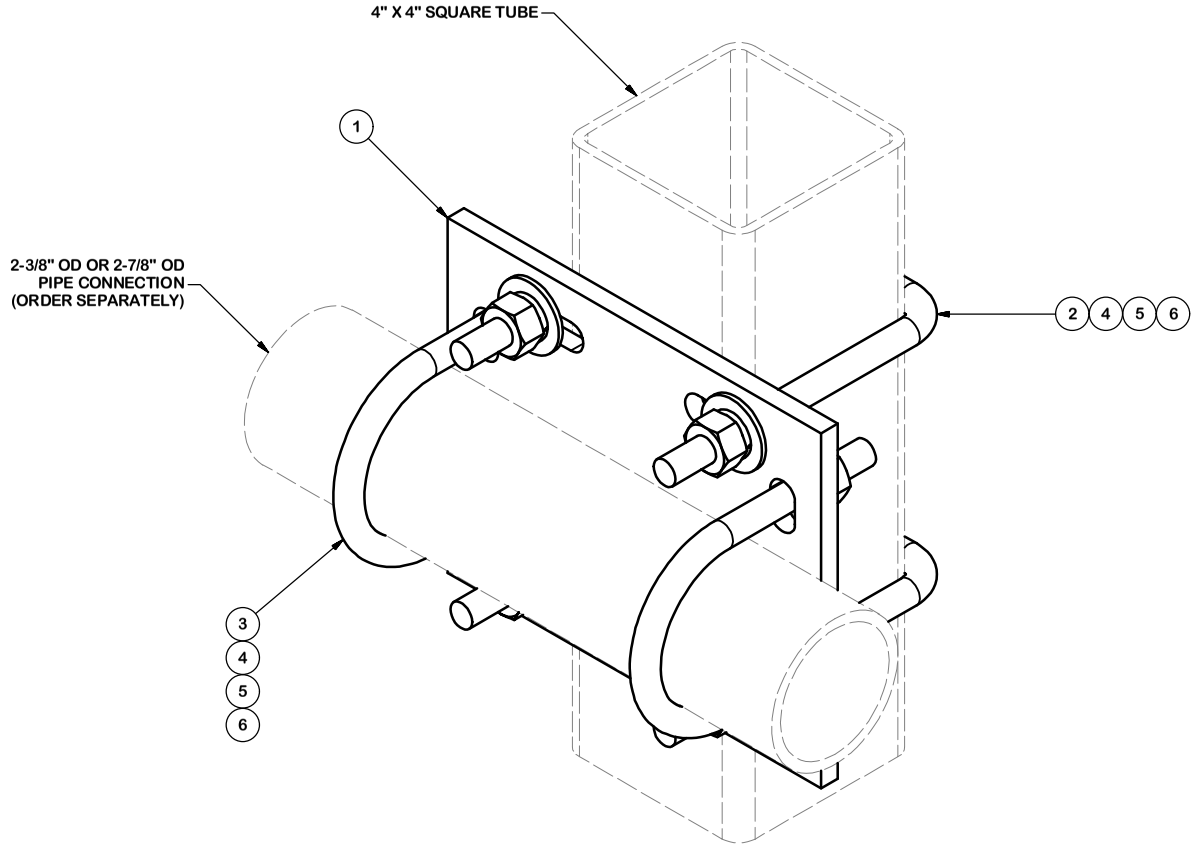
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-MSK2
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK2

REV #: 0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2 in	6.02	6.02
2	2	X-SUB1418	SQUARE U-BOLT 0.5" DIA. X 4.125" IW X 6" IL X 3" TR		0.98	1.95
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	1.19
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.67	1.34
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	11.35



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION
CROSSOVER PLATE KIT
W/ SQUARE U-BOLTS AND STD. U-BOLTS

SITE PRO 1
A valmont COMPANY

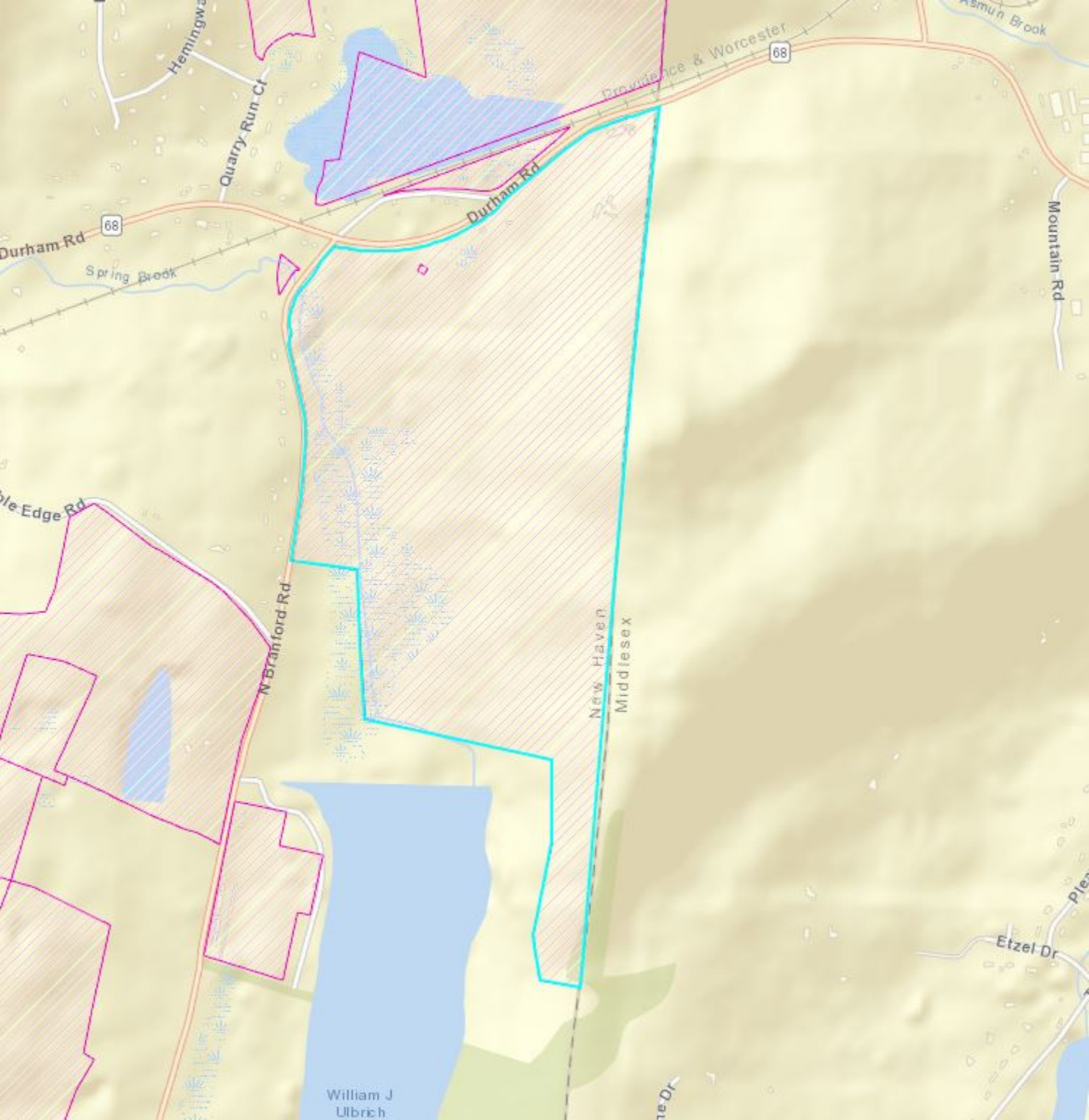
Engineering Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CSL 9/18/2018	3RD PARTY	SQCX4-K

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
87	02	CUSTOMER	BMC 11/12/2018	SQCX4-K

ATTACHMENT 5


Hemingway Ln
Quarry Run Ct
Providence & Worcester
68
Asmun Brook
Durham Rd
Durham Rd
68
Spring Brook
Mountain Rd
ole Edge Rd
N Branford Rd
New Haven
Middlesex
Etzel Dr
William J
Ulbrich

Property Location: 1600 DURHAM RD | MAP ID: 98/ / 3/ / | Bldg Name: | State Use: 4100
Vision ID: 16164 | Account #20010500 | Bldg #: 1 of 8 | Sec #: 1 of 1 | Card 1 of 1 | Print Date: 07/03/2019 12:52

CURRENT OWNER	TOPO.	UTILITIES	STRT./ROAD	LOCATION
TILCON MINERALS INC	2 Above Street	2 Public Water	1 Paved	2 Suburban
301 HARTFORD AVE	7 Swampy			
PO BOX 310903	8 Ledge			
NEWINGTON, CT 06131-0903				
Additional Owners:				

SUPPLEMENTAL DATA

Other ID:	203002010	P/Z MAP #	
Census:	1760	ENG MAP #	
Old MBLU		Easement	
TC MAP #		Town Line?	TL1
TC MAP #		IND PARKS	
Record Lot			
GIS ID: 98/3		ASSOC PID#	

CURRENT ASSESSMENT

Description	Code	Appraised Value	Assessed Value
IND LAND	3-1	1,504,900	1,053,400
IND BLDG	3-2	561,600	393,200
IND IMPR	3-3	1,337,100	936,100
UTL LAND	4-1	200,000	140,000
	Total	3,603,600	2,522,700

6148
WALLINGFORD, CT

VISION

RECORD OF OWNERSHIP

	BK-VOL/PAGE	SALE DATE	q/u	v/i	SALE PRICE	V.C.
TILCON MINERALS INC	507/ 608	07/30/1981			0	

PREVIOUS ASSESSMENTS (HISTORY)

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
2018	3-1	1,053,400	2017	3-1	1,053,400	2016	3-1	1,053,400
2018	3-2	393,200	2017	3-2	393,200	2016	3-2	393,200
2018	3-3	936,100	2017	3-3	936,100	2016	3-3	936,100
2018	4-1	140,000	2017	4-1	140,000	2016	4-1	140,000
Total:		2,522,700	Total:		2,522,700	Total:		2,522,700

EXEMPTIONS

Year	Type	Description	Amount
		Total:	

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm. Int.

This signature acknowledges a visit by a Data Collector or Assessor

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	181,400
Appraised XF (B) Value (Bldg)	9,900
Appraised OB (L) Value (Bldg)	1,209,300
Appraised Land Value (Bldg)	1,704,900
Special Land Value	0
Total Appraised Parcel Value	3,603,600
Valuation Method:	C
Adjustment:	0
Net Total Appraised Parcel Value	3,603,600

ASSESSING NEIGHBORHOOD

NBHD/ SUB	NBHD Name	Street Index Name	Tracing	Batch
I3/A				

NOTES

COURT JUDGEMENT 1/21/04
SEE NO. CV-02-0464833S
PERMIT 19378-EQUIPMENT BLDG & PERMIT
17813-TRUCK SCALE ASSESSED AS P/P
PERMIT 22849-NEW TANKS & PUMPS ASSESSED
AS PERSONAL PROPERTY

BUILDING PERMIT RECORD

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments
22849	06/17/2008	CM	Commercial	26,200	04/08/2009	100	04/08/2009	storage tanks & pads
21442	02/28/2007	CM	Commercial	135,000	05/14/2007	100	05/14/2007	Machinery Foundations
19378	07/08/2005	CM	Commercial	100,000	09/28/2005	100	09/28/2005	New Equipment Room (1
17813	05/21/2004	CM	Commercial	26,200	09/28/2005	100	09/28/2005	Truck Scale/1000 gal Sep
17568	03/26/2004	CM	Commercial	53,488	06/28/2004	100	06/14/2004	New Bldg-Test Lab 15x2
17568	03/24/2004	CC	C of C	0	06/28/2004	100	06/14/2004	Certificate of Completio
16621	06/11/2003	CM	Commercial	18,900	07/25/2003	100	07/25/2003	Footings for Conveyor

VISIT/ CHANGE HISTORY

Date	Type	IS	ID	Cd.	Purpose/Result
08/14/2015	07	7	KC	19	Map Correction-No Value
01/04/2011			DT	40	No change
05/20/2010	03		DT	29	Field Review
11/25/2009	03		TH	00	Measur+Listed
04/08/2009	02		DH	63	Permit Check - No Measu

LAND LINE VALUATION SECTION

B #	Use Code	Use Description	Zone	D	Front	Depth	Units		Unit Price	I. Factor	S.A.	Acre Disc	C. Factor	ST. Idx	Adj.	Notes- Adj	Special Pricing		S Adj Fact	Adj. Unit Price	Land Value
1	4100	SAND&GRAVL M96	RU40				43,560	SF	2.76	1.0000	C	1.0000	1.00	C50	0.75				1.00	2.07	90,200
1	4100	SAND&GRAVL M96	RU40				10.92	AC	120,200.00	1.0000	0	1.0000	0.40	C50	0.75				1.00	36,060.00	393,800
1	4100	SAND&GRAVL M96	RU40				255.22	AC	10,000.00	1.0000	0	1.0000	0.40		0.00				1.00	4,000.00	1,020,900
1	4310	TEL REL TW M96	RU40				1.00	BL	200,000.00	1.0000	0	1.0000	1.00		0.00	3500 SQ FT			1.00	200,000.00	200,000
1	4310	TEL REL TW M96					3,500	SF	0.00	1.0000	0	1.0000	1.00		0.00	CELL SITE AREA			.00	0.00	0

Total Card Land Units: 267.22 AC | Parcel Total Land Area: 267.22 AC | Total Land Value: 1,704,900

Property Location: 1600 DURHAM RD **MAP ID:** 98/ / 3/ / **Bldg Name:** **State Use:** 4100

Vision ID: 16164 **Account #**20010500 **Bldg #:** 1 of 8 **Sec #:** 1 of 1 **Card** 1 of 1 **Print Date:** 07/03/2019 12:52

CONSTRUCTION DETAIL

Element	Cd.	Ch.	Description
Style	414		Warehouse
Model	96		Ind/Comm
Grade	C-		
Stories	1		
Occupancy	1		
Exterior Wall 1	27		Pre-finsh Metl
Exterior Wall 2			
Roof Structure	03		Gable
Roof Cover	01		Metal/Tin
Interior Wall 1	01		Minim/Masonry
Interior Wall 2			
Interior Floor 1	03		Concr-Finished
Interior Floor 2			
Heating Fuel	02		Oil
Heating Type	03		Hot Air-no Duc
AC Type	01		None
Bldg Use	4100		SAND&GRAVL M96
Total Rooms			
Total Bedrms	00		
Total Baths	0		
Heat/AC	00		Heat/Min
Frame Type	05		Steel
Baths/Plumbing	02		Average
Ceiling/Wall	04		Ceil & Min WL
Rooms/Prtns	02		Average
Wall Height	28		
% Comn Wall	0		

CONSTRUCTION DETAIL (CONTINUED)

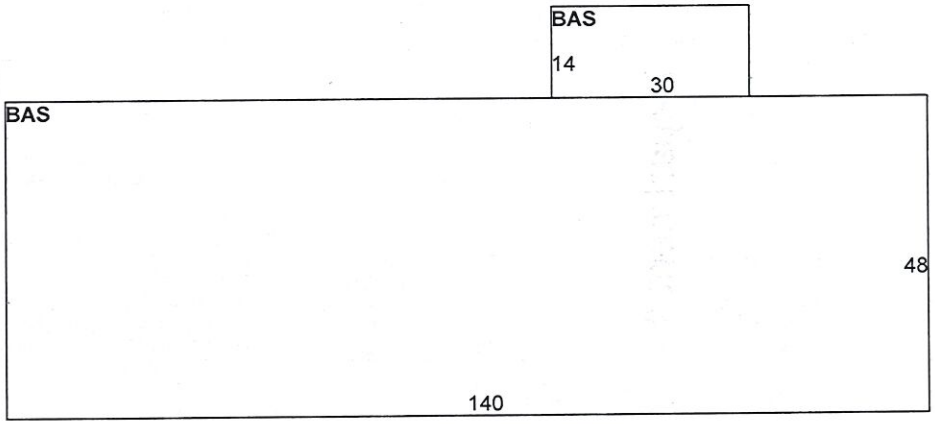
Element	Cd.	Ch.	Description

MIXED USE

Code	Description	Percentage
4100	SAND&GRAVL M96	100

COST/MARKET VALUATION

Adj. Base Rate:	38.49
	274,840
Net Other Adj:	0.00
Replace Cost	274,840
AYB	1979
Dep Code	F
Remodel Rating	
Year Remodeled	
Dep %	34
Functional Obslnc	0
External Obslnc	0
Cost Trend Factor	
Condition	
% Complete	
Overall % Cond	66
Apprais Val	181,400
Dep % Ovr	0
Dep Ovr Comment	
Misc Imp Ovr	0
Misc Imp Ovr Comment	
Cost to Cure Ovr	0
Cost to Cure Ovr Comment	



OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)

Code	Description	Sub	Sub Descript	L/B	Units	Unit Price	Yr	Gde	Dp Rt	Cnd	%Cnd	Apr Value
FGR1	Garage-Avg			L	320	30.00	1990	C		A	50	4,800
PAV2	Paving-Conc			L	1,344	3.50	1969	C		A	50	2,400
RR1	RR Spur			L	5,255	83.00	2009	C		A	50	218,100
SCL2	Scales-Elec			L	450	960.00	2009	C		A	50	216,000
SCL2	Scales-Elec			L	200	960.00	2009	C		A	50	96,000
SCL2	Scales-Elec			L	200	960.00	2009	C		A	50	96,000
SCL2	Scales-Elec			L	1,200	960.00	2009	C		A	50	576,000
MEZ2	Mezz Finished			B	1,000	15.00	1981		1		100	9,900

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	7,140	7,140	7,140	38.49	274,840
	Ttl. Gross Liv/Lease Area:	7,140	7,140	7,140		274,840

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

WALLINGFORD 2

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103		3	neopost 09/30/2021 US POSTAGE $002.99⁰ ZIP 06103 041L12203937
	Postmaster, per *(name of receiving employee)*		

OLD STATE HOUSE STATION SEP 30 2021 USPS

	USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.		William W. Dickinson, Jr., Mayor Town of Wallingford 45 South Main Street Wallingford, CT 06492				
2.		Kevin Pagini, Town Planner Town of Wallingford 45 South Main Street Wallingford, CT 06492				
3.		Tilcon Minerals, Inc. 301 Hartford Avenue Newington, CT 06131				
4.						
5.						
6.						