NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

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

October 27, 2021

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

RE: Exempt Modification Application
75 Roberts Road, Groton CT 06340
Latitude: 41.360222
Longitude: -72.048639
Site#: 881533_ Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 75 Roberts Road, Groton CT 06340. Verizon Wireless currently maintains nine (9) antennas at the 135-foot level of the existing 145-foot tower. The property is owned by Daniel & Stacey Perrotta and the tower is owned by Crown Castle. Verizon now intends to replace six (6) of the existing antenna and add three (3) new antenna. The new antennas would be installed at the 135-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and **5G** capable. Antenna mount modifications will be completed as per the attached Maser mount analysis dated May 11, 2021.

Verizon Planned Modifications:
Remove: (2) Coax

Remove and Replace:
(3) QUAD656C0000X Antenna (REMOVE) – (3)) MX06FR0660 Antenna (REPLACE)
(3) HBXX6517DS Antenna (REMOVE) – (3) MT6407-77A Antenna (REPLACE)
(3) Nokia B13 RRH (REMOVE) - (3) Samsung B2/B66A -BRO49 – RFV01U-D1A RRH (REPLACE)
(3) Nokia B25 RRH (REMOVE) - (3) Samsung B5/B13 -BRO4C – RFV01U-D2A RRH (REPLACE)

Install New:
(2) Hybrid lines
(3) JMA MX06FR0660 Antenna

Existing to Remain:
(3) LNX6512DS Antenna
(6) 1-5/8" Coax

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The facility was approved by the Town of Groton Planning and Zoning on March 1, 2000. Please see attached.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to John Burt, Town Manager, and Jonathan Reiner, Director of Planning for the Town of Groton. A copy is also being sent to the tower owner, and property owner.

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

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

2. The proposed modifications will not require the extension of the site boundary.

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

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

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

6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

Denise Sabo
Mobile: 203-435-3640
Fax: 413-521-0558
Office: 4 Angela's Way, Burlington CT 06013
Email: denise@northeastsitesolutions.com

Attachments

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

cc: John Burt, Town Manager
Town of Groton
45 Fort Hill Road, Groton CT 06340

Jonathan Reiner, AICP – Director of Planning
Town of Groton
134 Groton Long Point Road, Groton CT 06340

Daniel & Stacey Perrotta, Property Owner
75 Roberts Road, Groton CT 06340

Crown Castle, Tower Owner

NORTHEAST SITE SOLUTIONS, LLC
1053 FARMINGTON AVE STE G
FARMINGTON, CT 06032

WEBSTER BANK
51-7010/2111

4640

08/13/2021

PAY TO THE ORDER OF Connecticut Siting Council $ *625.00

EXACTLY SIX HUNDRED TWENTY-FIVE DOLLARS DOLLARS

Connecticut Siting Council
10 Franklin Square
New Britain CT 06051

MEMO

AUTHORIZED SIGNATURE

⑈004640⑈ ⑆211170101⑆10 0010608887⑈

NORTHEAST SITE SOLUTIONS, LLC 4640

Check#: 4640 **Date: 08/13/2021** **Vendor#: 10023 Connecticut Siting Council** **Check Total: *625.00**

Invoice#	*Invoice Date*	*Job/Description*	*Balance*	*Retain*	*Discount*	*This Check*
881533 Crown Direct	08/13/2021	117 Crown Direct Z/P	625.00			625.00

NORTHEAST SITE SOLUTIONS, LLC 4640

Check#: 4640 **Date: 08/13/2021** **Vendor#: 10023 Connecticut Siting Council** **Check Total: *625.00**

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881533 Crown Direct	08/13/2021	117 Crown Direct Z/P	625.00			625.00

Exhibit A

Original Facility Approval

TOWN OF GROTON

PLANNING AND DEVELOPMENT SERVICES
Planning Department

134 Groton Long Point Road
Groton, Connecticut 06340-4873

March 1, 2000

Gerald Longobardi
Candid Communications of Groton, LLC
110 Washington Avenue
North Haven, Connecticut 06473

Dear Mr. Longobardi:

The Town of Groton Planning Commission, at its meeting on February 22, 2000, approved with modifications your site plan entitled Candid Communications Telecommunications Tower and Facilities, Roberts Road (see attachment).

If your plan was approved with modifications, you should submit two paper check prints of the revised plan for final review to insure compliance with the Commission's approval. Following this review, two mylars and eight paper prints of the entire plan must be submitted for the Chairman's signature.

Please note that this plan, after being signed by the Chairman of the Commission, must be filed by you or your representative in the Land Records Office at Town Hall, **and until such filing has been done, no building permit can be issued and no construction shall commence.** Please note as per the Zoning Regulations, "any approved site plan for which construction has not commenced or which is not otherwise put into effect within a period of one year shall become null and void, unless an extension of time is applied for by the applicant and granted by the Planning Commission."

If a building permit is involved, "Post Site Plan Approval Requirements and Procedures" and "Contractor's Punch List for Site Work" have been enclosed to assist you in the construction phase of your project.

Please note that any modification to this plan subsequent to Planning Commission approval requires resubmission of an application for site plan modification approval in the same manner as the original application. Failure to submit requisite modification applications could result in delays in issuance of Certificates of Site Plan Compliance and Certificates of Occupancy.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Michael J. Murphy, AICP
Assistant Director of
Planning and Development

MJM:nb
Certified # Z 414 682 282

Exhibit B

Property Card

Residential Property Card

Print Date: 6/11/2019

Card 1 Of 1

Account	Location	Grand List Code	Zoning	Acres
169914226707	75 ROBERTS RD	RESIDENTIAL	RU-20	3.18

District	Neighborhood	Deed Book/Page	Use Code
POQUONNOCK BRIDGE	1031	1206/918	SINGLE FAMILY

Current Owner

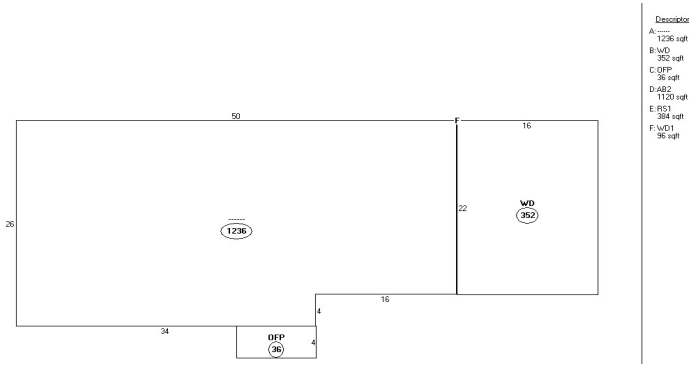
PERROTTA DANIEL J & STACEY A
75 ROBERTS RD
GROTON CT 06340

Property Picture

Building Information

Style:	RAISED RANCH
Exterior:	ALUM/VINYL
Attic:	NONE
Stories:	1
Basement:	FULL
Year Built:	1977
Tot Living Area:	2120 SqFt.
Fuel:	ELECTRIC
Heating:	BASIC
System:	ELECTRIC
Bedrooms:	4
Full Baths:	2
Half Baths:	

Building Sketch



Valuation

Land:	$94,000
Building:	$200,500
Total:	$294,500
Assessed Value:	$206,150

Recent Sales

Book/Page	Date	Price
1206/918	10/15/2018	$0
1091/1053	5/4/2012	$300,000
1091/1050	5/3/2012	$0

Sketch Legend

----	Main Living Area	1SMA	Masonry	GRHS	Attached Greenhouse
1FR	Frame	OMP	Open Masonry Porch	CAT	Cathedral Ceiling
OFP	Open Frame Porch	EMP	Enclosed Msry Porch	SOP	Screen Open Frame Prch
EFP	Enclosed Frame Porch	MUB	Masonry Utility	SMP	Screen Open Msnry Prch
FUB	Frame Utility Building	MB	Masonry Bay	CPAT	Concrete Patio
FB	Frame Bay	MOH	Masonry Overhang	B	Basement
FG	Frame Garage	.5MA	1/2 Story Masonry		
FOH	Frame Overhang	MP	Masonry Patio		
.5FR	1/2 Story Frame	WD	Wood Deck		
A(U)	Attic (Unfinished)	CPY	Canopy		
A(F)	Attic (Finished)				

Town of Groton

GIS Map

N
W E
S

1 inch = 104 feet

Date: June 11, 2019

Disclaimer:

The planimetric and topographic information depicted on this map was compiled by The Sanborn Map Company based on an aerial flight performed in April 2009. The parcel and property line information depicted on this map has been compiled from recorded deeds, maps, assessor records, and other sources of information in the Town of Groton. The intent of this map is to depict a graphical representation of real property information relative to the planimetric features for the Town of Groton and is subject to change as a more accurate survey may disclose. The Town of Groton and the mapping companies assume no legal responsibility for the information contained in this data.
THIS MAP ISNOT TO BE USED FOR THE TRANSFER OF PROPERTY.

Horizontal Datum:
Connecticut State Plane Coordinates, North American Datum of 1983 (NAD83 Feet).

Vertical Datum:
North American Vertical Datum of 1988 (NAVD88).

Map Created using Town of Groton GIS Viewer

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 535824
VERIZON SITE NAME: GROTON TOWER
SITE TYPE: MONOPOLE
TOWER HEIGHT: 145'-0"

BUSINESS UNIT #: 881533
SITE ADDRESS: 75 ROBERTS ROAD GROTOB, CT 06340
COUNTY: NEW LONDON
JURISDICTION: TOWNSHIP OF GROTON

VERIZON FUZE PROJECT #: 16227586

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	GROTON 5 CT
SITE ADDRESS:	75 ROBERTS ROAD GROTOB, CT 06340
COUNTY:	NEW LONDON
MAP/PARCEL #:	VERIFY
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 21' 36.80" N (41.360222°)
LONGITUDE:	-72° 2' 55.10" W (-72.048639°)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	125.0'
CURRENT ZONING:	N/A
JURISDICTION:	TOWNSHIP OF GROTON
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TBD -- --
TOWER OWNER:	CCATT LLC 1500 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	TBD --
TELCO PROVIDER:	TBD --

PROJECT TEAM

A&E FIRM:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWNAE.APPROVAL@CROWNCASTLE.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 TBD - PROJECT MANAGER -- TBD - CONSTRUCTION MANAGER --
VERIZON CONTACT:	ANDREW LEONE ALEONE@STRUCTURECONSULTING.NET

DRAWING INDEX

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

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

APPROVALS

SIGNATURE	DATE

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	6039-Z0001-C
VzW LOCATION CODE (PSLC)	535824

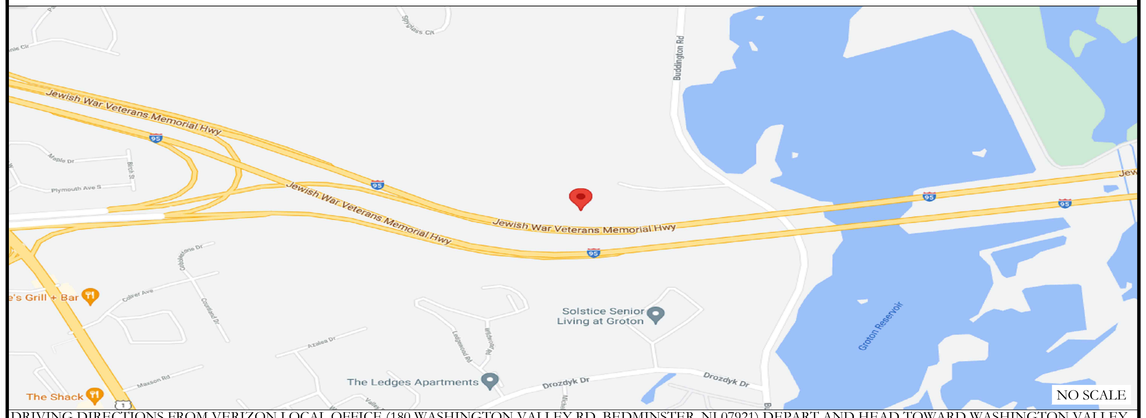
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	**N**

VzW APPROVED SMART KIT VENDORS

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

LOCATION MAP



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY RD, BEDMINSTER, NJ 07921) DEPART AND HEAD TOWARD WASHINGTON VALLEY RD / COUNTY HWY-620, TURN LEFT ONTO WASHINGTON VALLEY RD / COUNTY HWY-620, BEAR RIGHT ONTO US-206 N / US-202 N / US HIGHWAY 202 206, BEAR RIGHT ONTO US-202 N / US-206 N / US HIGHWAY 202 206, TURN RIGHT ONTO SCHLEY MOUNTAIN RD, TAKE THE RAMP ON THE RIGHT FOR I-287 N, TAKE THE RAMP ON THE RIGHT FOR I-287 / I-87 SOUTH AND HEAD TOWARD NEW YORK CITY / TAPPAN ZEE BR, TAKE THE RAMP FOR I-95 N / NEW ENGLAND THROUGHWAY N, HEAD LEFT ON THE RAMP FOR CT-184 TOWARD GALES FERRY / US SUB BASE, TURN RIGHT ONTO BUDDINGTON RD, TURN RIGHT ONTO ROBERTS RD, TURN LEFT, ARRIVE AT 75 ROBERTS ROAD, GROTOB, CT 06340.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: DATED:	BY OTHERS
MOUNT ANALYSIS: DATED:	MASER CONSULTING CONNECTICUT 05/11/2021
RFDS REVISION: DATED:	TBD 02/05/2021
ORDER ID: REVISION:	552643 0

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

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (6) ANTENNAS
- REMOVE (9) RRHs
- REMOVE (2) OVPs
- REMOVE (2) HYBRID CABLES
- INSTALL(9) ANTENNAS
- INSTALL (3) ANTENNA MOUNTS
- INSTALL (6) RRHs
- INSTALL (2) OVPs
- INSTALL (2) HYBRID CABLES

GROUND SCOPE OF WORK:
- N/A

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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

VERIZON SITE NUMBER:
535824

BU #: **881533**
GROTON 5 CT

75 ROBERTS ROAD
GROTOB, CT 06340

EXISTING 145'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	07/01/2021	PEG	FINAL CD'S	--

STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
7/1/2021

SHEET NUMBER: T-1
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
   THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
   CARRIER: VERIZON
   TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
   #4 BARS AND SMALLER..40 ksi
   #5 BARS AND LARGER..60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH......................3"
   CONCRETE EXPOSED TO EARTH OR WEATHER:
      #6 BARS AND LARGER..2"
      #5 BARS AND SMALLER..1–1/2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
      SLAB AND WALLS..3/4"
      BEAMS AND COLUMNS..1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
   - 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
   - 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE

SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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

VERIZON SITE NUMBER:
535824

BU #: **881533**
GROTON 5 CT

75 ROBERTS ROAD
GROTOB, CT 06340

EXISTING 145'-0" MONOPOLE

ISSUED FOR:

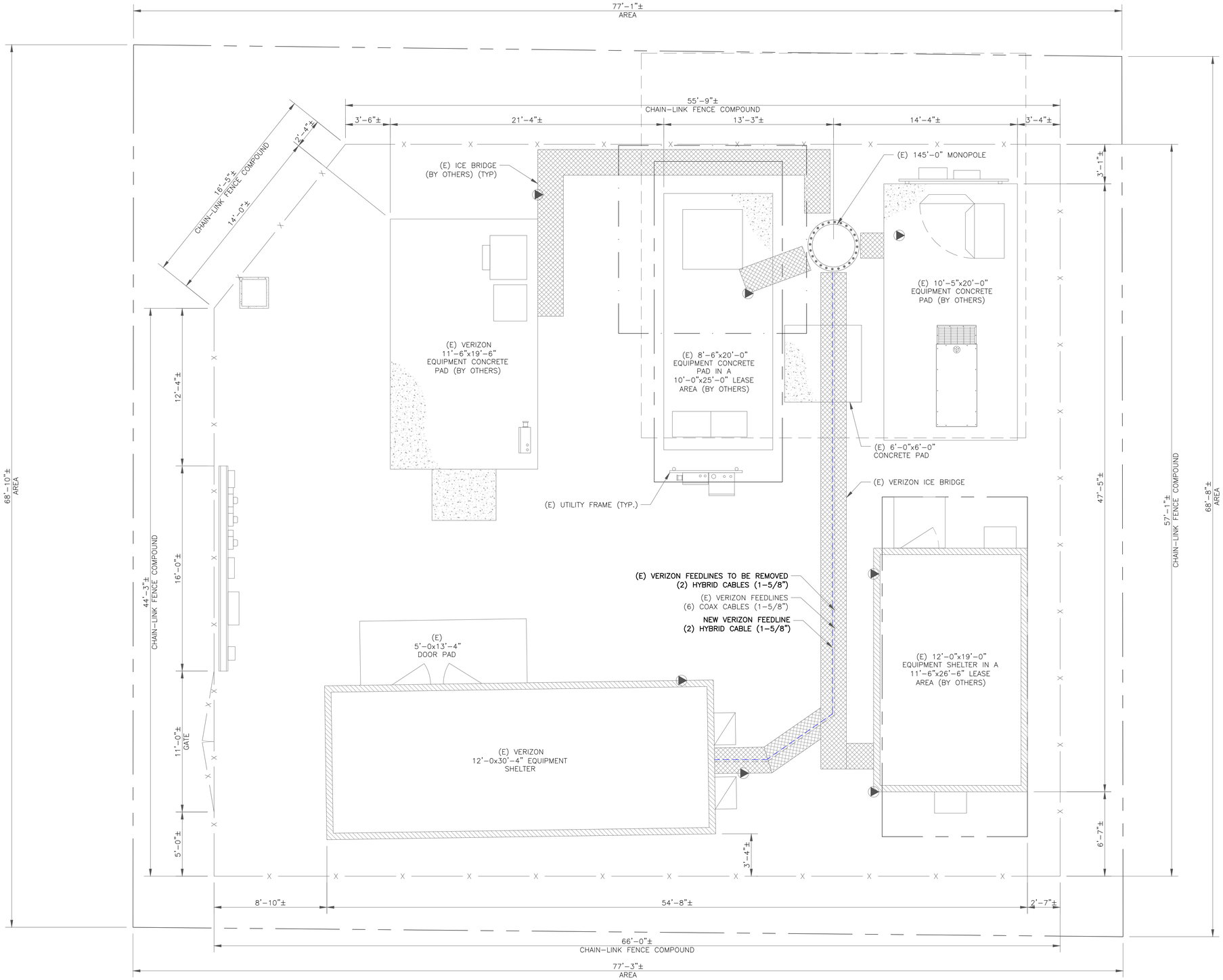
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	07/01/2021	PEG	FINAL CD'S	--

SHUHEI SAKANOUE
34916
7/1/2021

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

SHEET NUMBER: T-2

REVISION: 0



1 SITE PLAN

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

N

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180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE

1500 CORPORATE DRIVE
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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER

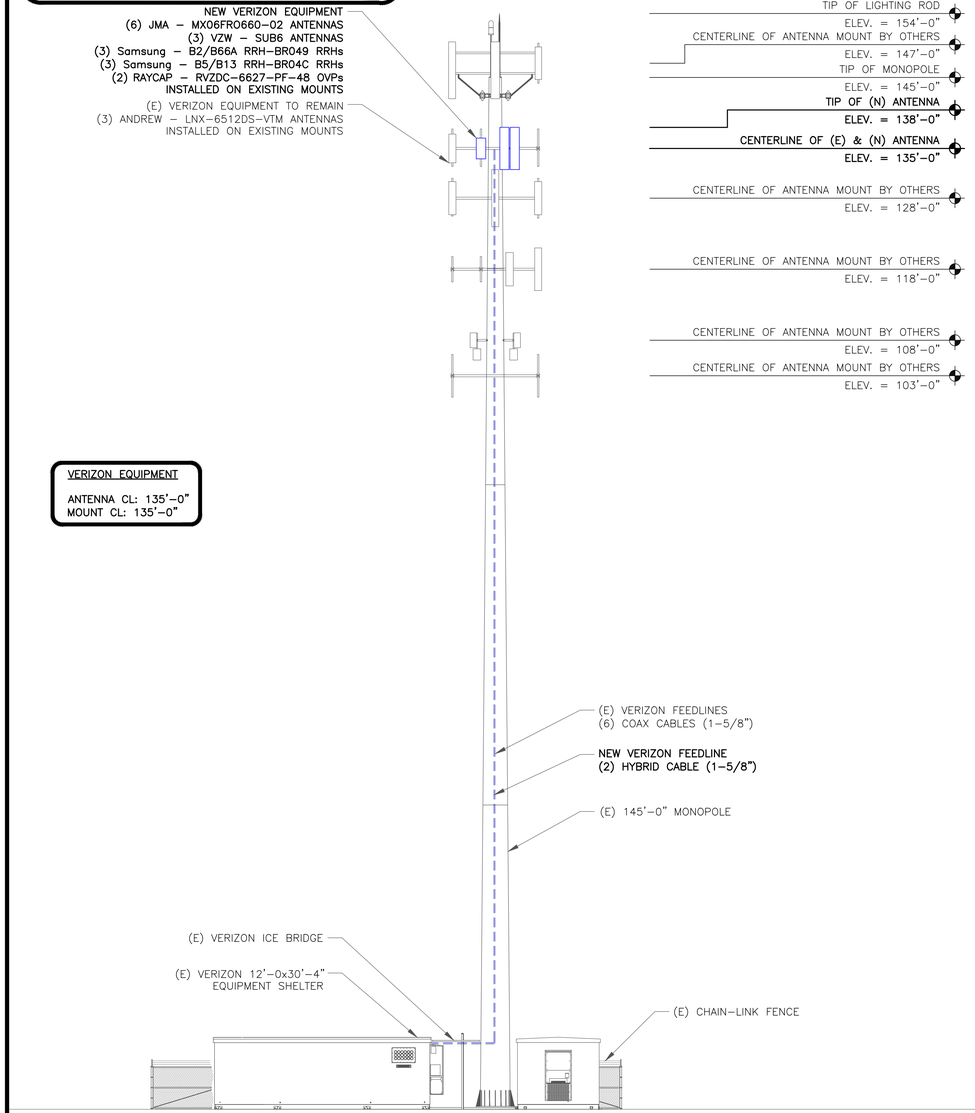
7/1/2021

SHEET NUMBER: C-1

REVISION: 0

NOTES:

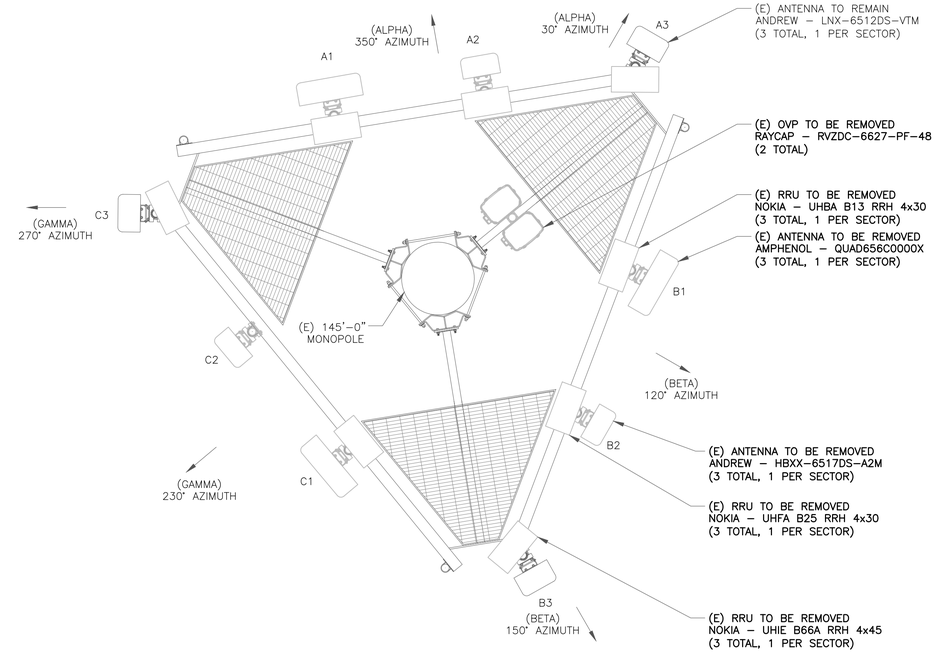
1. ELEVATION BASED ON DRAWING PROVIDED BY TOWER OWNER. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATION/ORIENTATION OF EXISTING EQUIPMENT.
2. INFINIGY HAS NOT EVALUATED THE TOWER STRUCTURE AND ASSUMES NO RESPONSIBILITY FOR THEIR STRUCTURAL INTEGRITY REGARDING PROPOSED LOADINGS. FINAL INSTALLATION SHALL COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSES PERFORMED BY OTHERS.
3. FOR ADDITIONAL INFORMATION PERTAINING TO THE ANTENNA MOUNTS, SEE 'POST-MOD ANTENNA MOUNT ANALYSIS REPORT AND PMI REQUIREMENTS' AND MODIFICATION DESIGN DRAWINGS COMPLETED BY MASER CO, DATED 5/11/21



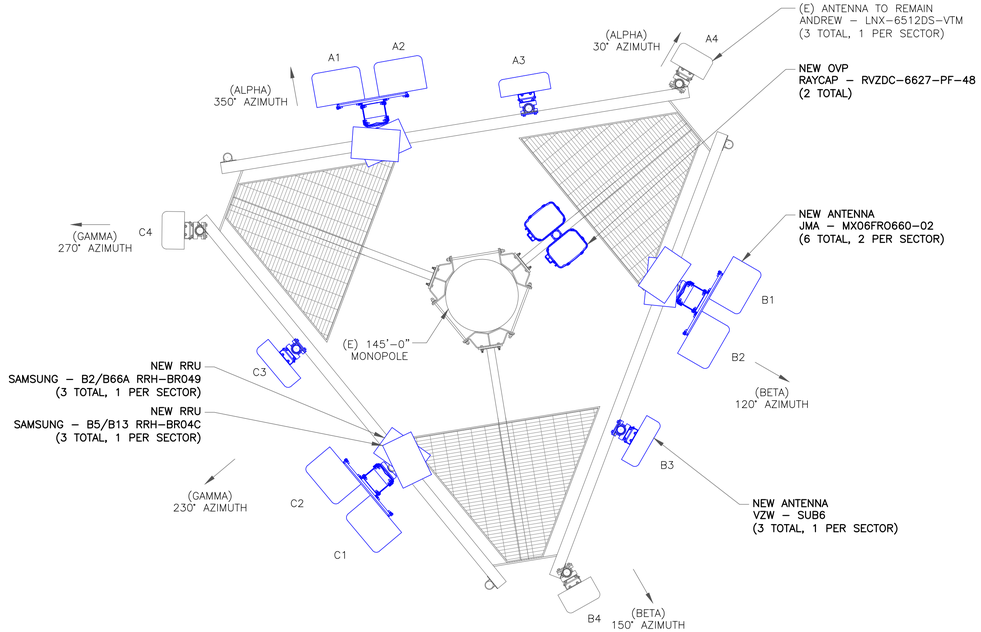
VERIZON EQUIPMENT

ANTENNA CL: 135'-0"
MOUNT CL: 135'-0"

1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

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180 WASHINGTON VALLEY ROAD
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CROWN CASTLE
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GROTON 5 CT

75 ROBERTS ROAD
GROTOB, CT 06340

EXISTING 145'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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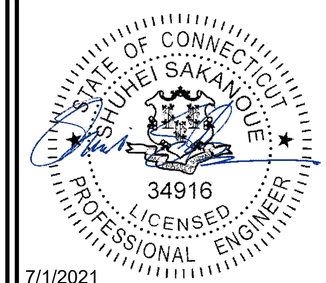


7/1/2021

SHEET NUMBER: C-2

REVISION: 0

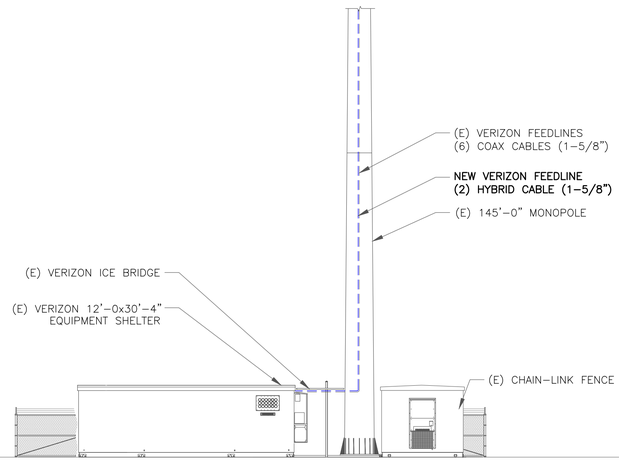
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	JMA	MX06FRO660-02	135'-0"	350°	0°	6°/6°/2°/2°	SAMSUNG RAYCAP	(1) B5/B13 RRH-BR04C (1) RVZDC-6627-PF-48
A2	NEW	JMA	MX06FRO660-02	135'-0"	350°	0°	6°/6°/2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049
A3	NEW	VZW	SUB6	135'-0"	350°	0°	3°	–	–
A3	EXISTING	ANDREW	LNX-6512DS-VTM	135'-0"	30°	0°	0°	–	–
B1	NEW	JMA	MX06FRO660-02	135'-0"	120°	0°	6°/6°/2°/2°	SAMSUNG RAYCAP	(1) B5/B13 RRH-BR04C (1) RVZDC-6627-PF-48
B2	NEW	JMA	MX06FRO660-02	135'-0"	120°	0°	6°/6°/2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049
B3	NEW	VZW	SUB6	135'-0"	120°	0°	3°	–	–
B4	EXISTING	ANDREW	LNX-6512DS-VTM	135'-0"	150°	0°	0°	–	–
C1	NEW	JMA	MX06FRO660-02	135'-0"	230°	0°	6°/6°/2°/2°	SAMSUNG	(1) B5/B13 RRH-BR04C
C2	NEW	JMA	MX06FRO660-02	135'-0"	230°	0°	6°/6°/2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049
C3	NEW	VZW	SUB6	135'-0"	230°	0°	3°	–	–
C4	EXISTING	ANDREW	LNX-6512DS-VTM	135'-0"	270°	0°	0°	–	–

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	185'-0"±	6
NEW	HYBRID	1-5/8"	185'-0"±	2
TOTAL CABLE QTY:				8



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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VERIZON SITE NUMBER:
535824

BU #: **881533**
GROTON 5 CT

75 ROBERTS ROAD
GROTOB, CT 06340

EXISTING 145'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	07/01/2021	PEG	FINAL CD'S	--

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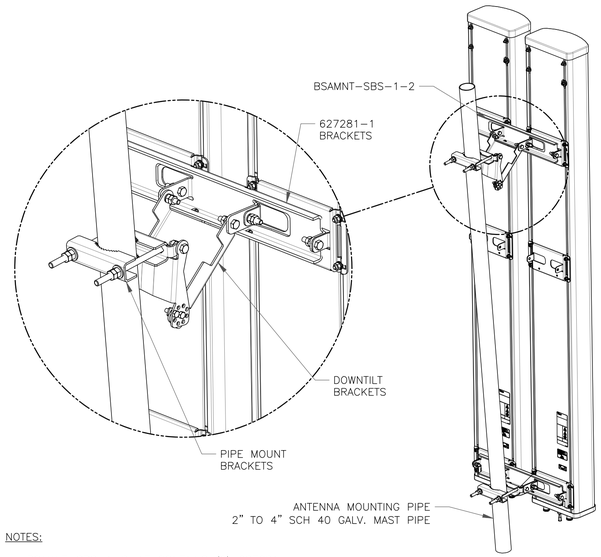
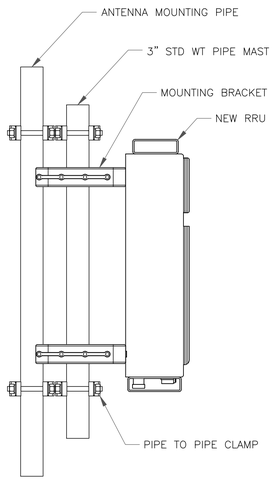


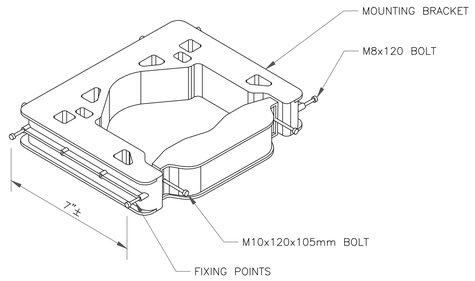
NOTES:

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

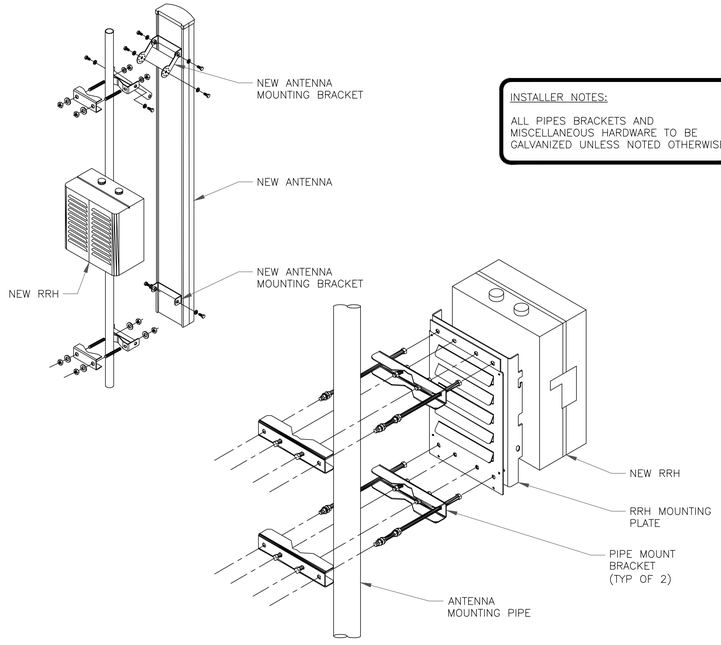
1 COMMSCOPE – BSAMNT-SBS-1-2
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE





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



INSTALLER NOTES:

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

4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
535824

BU #: **881533**
GROTON 5 CT

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GROTOB, CT 06340

EXISTING 145'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	07/01/2021	PEG	FINAL CD'S	--

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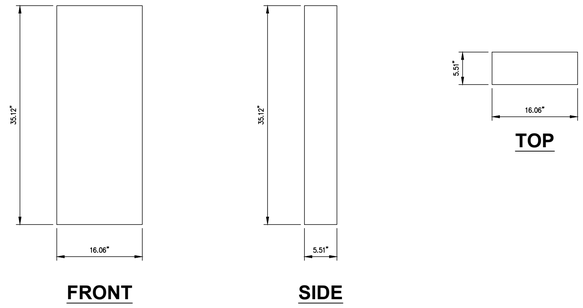
SHEET NUMBER: C-4

REVISION: 0

VZW PANEL ANTENNA (SUB6)

DIMENSIONS, HxWxD: 35.12"x16.06"x5.51"

WEIGHT, W/O BRACKETS: 81.57 lbs

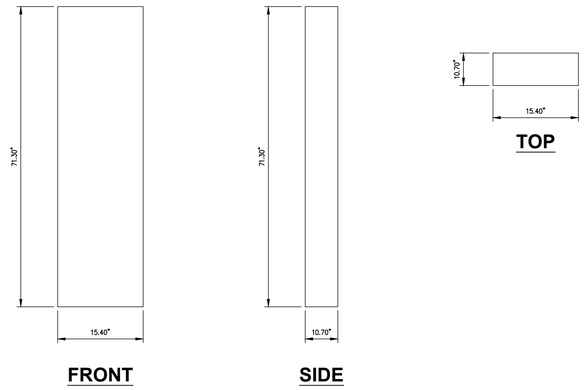


1 VZW SUB6 ANTENNA DETAIL
SCALE: NOT TO SCALE

JMA PANEL ANTENNA (MX06FRO660-02)

DIMENSIONS, HxWxD: 71.30"x15.40"x10.70"

WEIGHT, W/O BRACKETS: 57.0 lbs



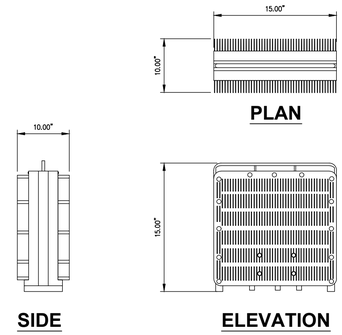
2 JMA MX06FRO660-02 ANTENNA DETAIL
SCALE: NOT TO SCALE

SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)

DIMENSIONS, WxDxH: 15.00" X 15.00" X 10.00"

TOTAL WEIGHT: 84.40 lbs

TEMPERATURE: -40° TO 55° C



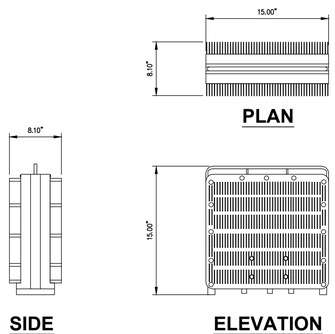
3 SAMSUNG B2/B66A RRH-BR049 DETAIL
SCALE: NOT TO SCALE

SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)

DIMENSIONS, WxDxH: 15.00" X 15.00" X 8.10"

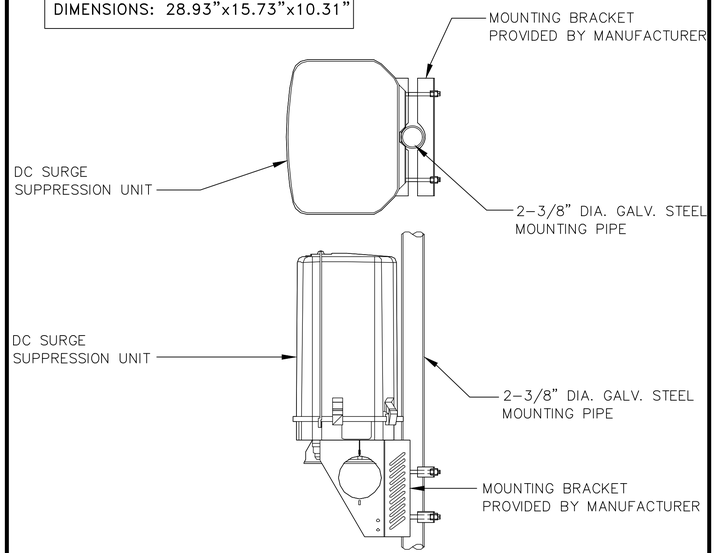
TOTAL WEIGHT: 70.30 lbs

TEMPERATURE: -40° TO 55° C



4 SAMSUNG B5/B13 RRH-BR04C DETAIL
SCALE: NOT TO SCALE

MANUFACTURER: RAYCAP
MODEL: RVZDC-6627-PF-48
DIMENSIONS: 28.93"x15.73"x10.31"



5 RAYCAP RVZDC-6627--PF-48 RAYCAP DETAIL
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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EXISTING 145'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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PLUMBING DIAGRAM PENDING

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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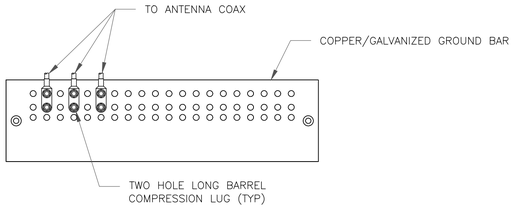
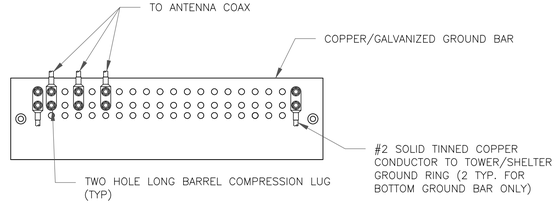
SHEET NUMBER:	REVISION:
C-6	0



NOTES:

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

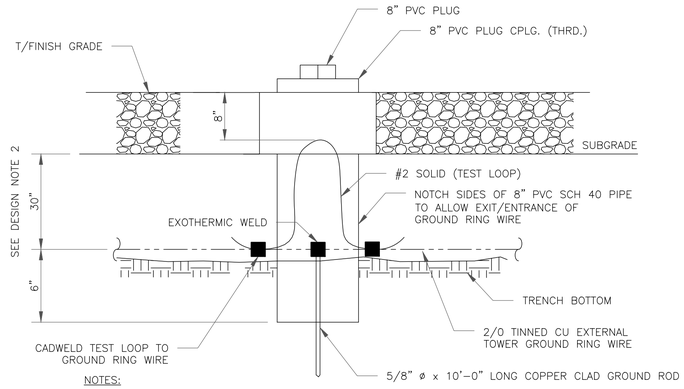
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

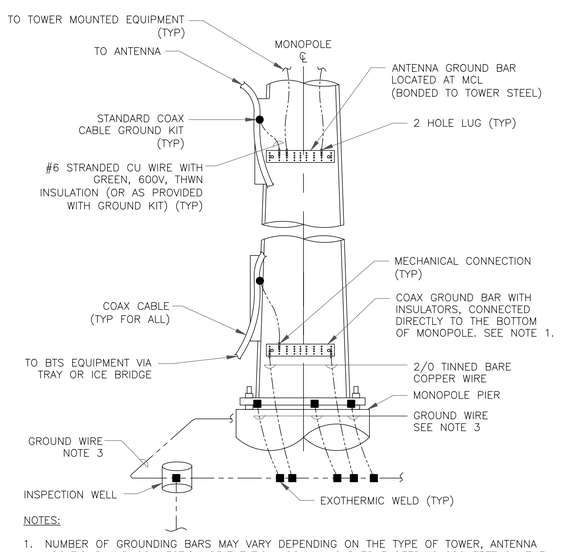
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

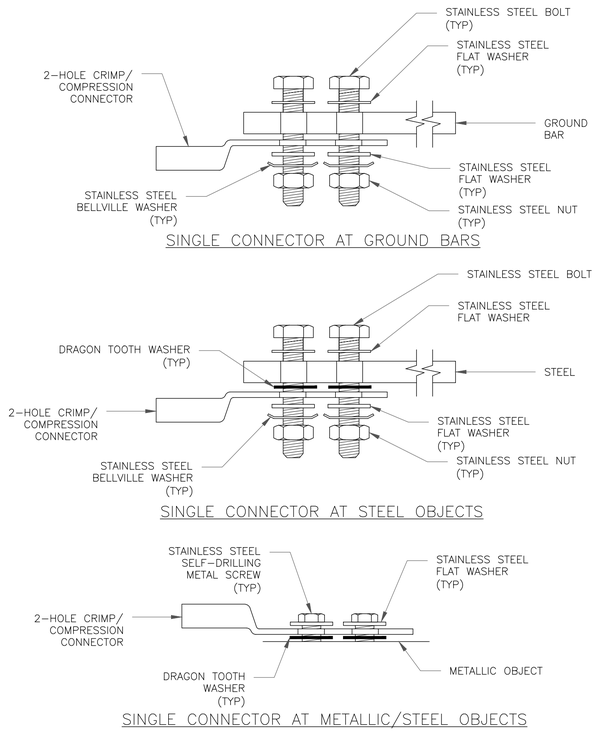
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



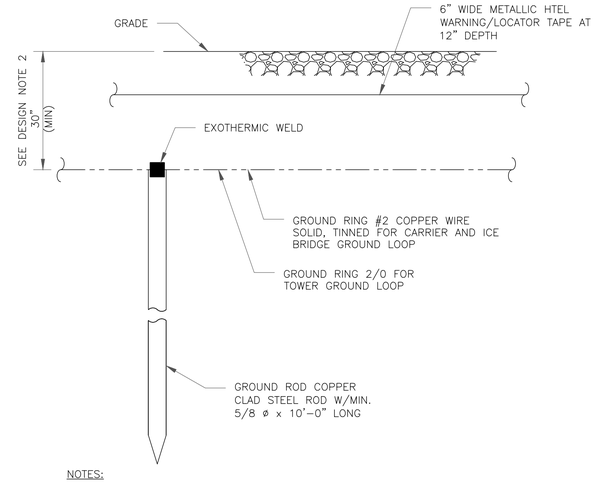
NOTES:

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

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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EXISTING 145'-0" MONOPOLE

ISSUED FOR:

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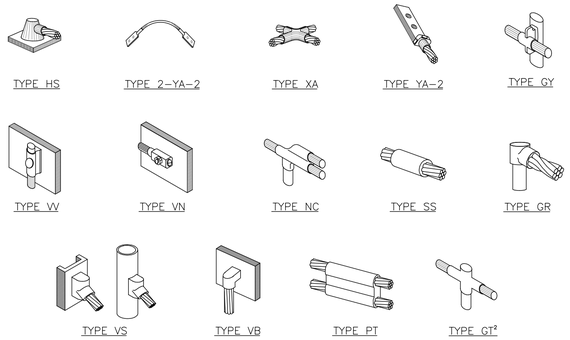
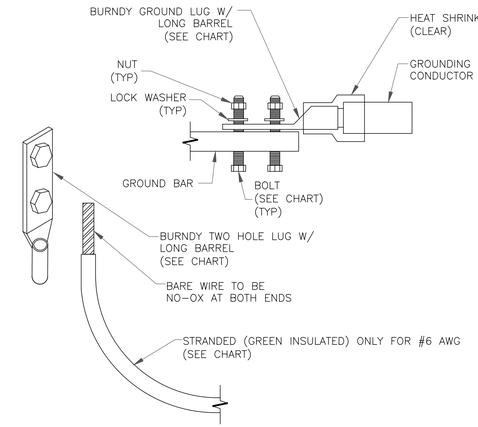


NOTE:

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

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

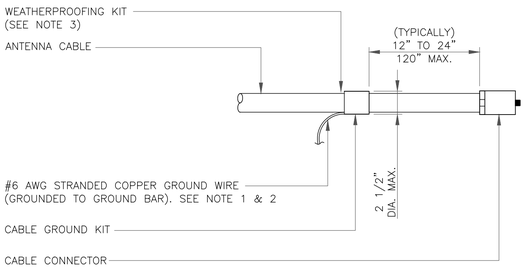
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

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

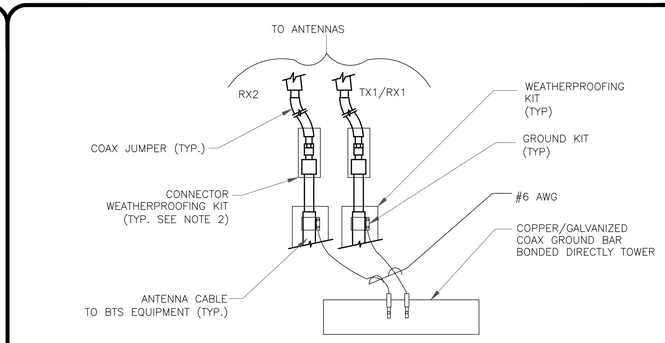
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

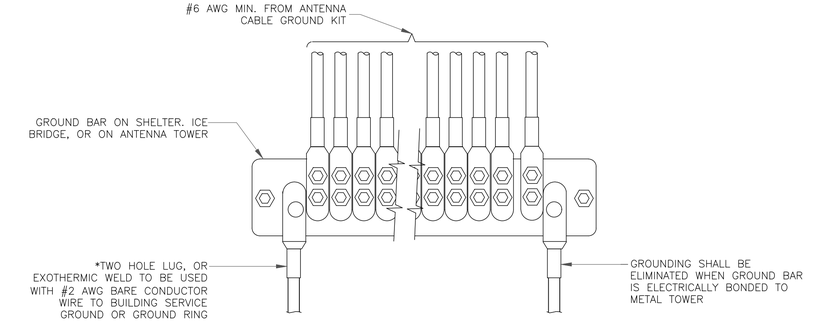
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



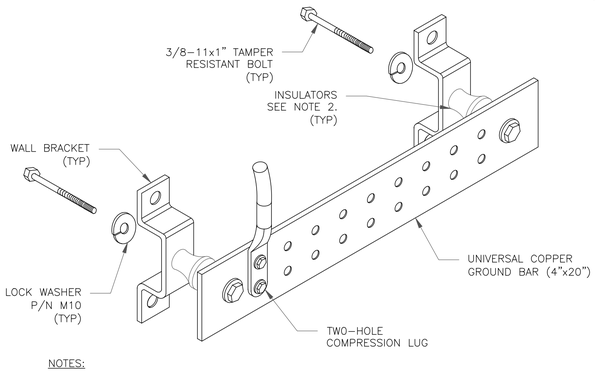
NOTES:

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

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



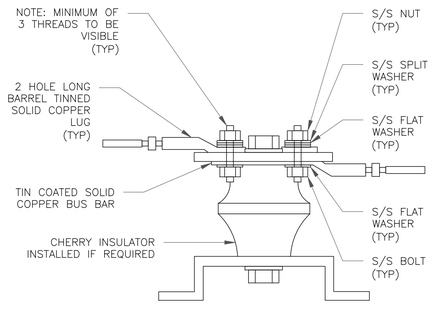
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



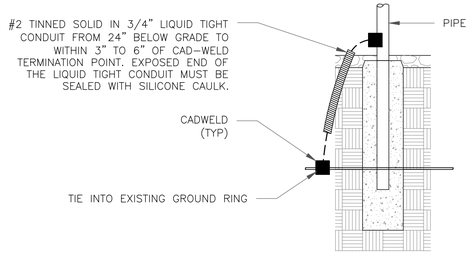
NOTES:

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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT
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7/1/2021

SHEET NUMBER: G-2
REVISION: 0

Exhibit D

Structural Analysis Report

Date: **May 09, 2021**

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

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	535824
	Site Name:	Groton 5 CT
Crown Castle Designation:	**BU Number:**	881533
	Site Name:	Groton Tower
	JDE Job Number:	644672
	Work Order Number:	1957176
	Order Number:	552643 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	92739.018.01
Site Data:	**75 Roberts Road, Groton, New London County, CT**	
	Latitude *41° 21' 36.8"*, Longitude *-72° 2' 55.1"*	
	144.5 Foot - Monopole	

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

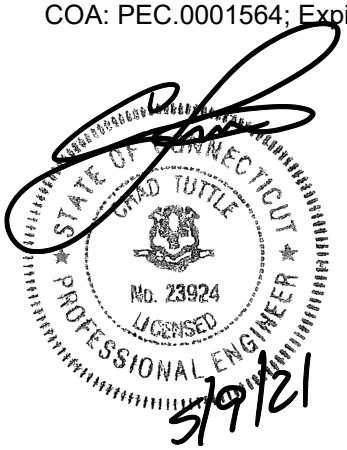
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity - 90.5%**

This analysis has been performed in accordance with the 2018 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 135 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Angela Ashwood

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



Chad E. Tuttle, P.E.

tnxTower Report - version 8.0.9.0

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1) INTRODUCTION

This tower is a 144.5 ft Monopole designed by Engineered Endeavors, Inc. in January of 2001.

This monopole has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	135 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
135.0	135.0	3	Andrew	LNX-6512DS-VTM	8	1-5/8
		6	JMA Wireless	MX06FRO660-02		
		2	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecom	RFV01U-D1A		
		3	Samsung Telecom	RFV01U-D2A		
		3	VZW	Sub6 Antenna - VZS01		
		1	--	Platform Mount [LP 601-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
147.0	147.0	6	Ericsson	RRUS 11	12 6 2	1-5/8 3/4 3/8
		3	Ericsson	RRUS 32		
		3	Ericsson	RRUS 32 B2		
		3	Ericsson	RRUS 4478 B14		
		3	Ericsson	RRUS 4478 B5		
		6	Kaelus	DBCT108F1V92-1		
		6	Powerwave Tech	7020.00		
		3	Powerwave Tech	7770.00		
		6	Powerwave Tech	LGP21401		
		1	--	Platform Mount [LP 602-1_KCKR]		
	146.0	1	Andrew	SBNH-1D6565C		
		3	Kathrein	840370799		
		2	KMW Comm.	AM-X-CD-17-65-00T-RET		
		1	Raycap	DC6-48-60-0-8F		
		2	Raycap	DC6-48-60-18-8F		
128.0	128.0	3	Ericsson	AIR 32 B2A B66AA_T-MOBILE	3	1-5/8

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	Ericsson	AIR6449 B41_T-MOBILE		
		3	Ericsson	RADIO 4415 B25_TMO		
		3	Ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	RFS Celwave	APXVAALL24_43-U-NA20_TMO		
		1	--	Platform Mount [LP 601-1]		
		1	--	Miscellaneous [NA 507-1]		
118.0	118.0	3	Alcatel Lucent	TD-RRH8X20-25	3 1	1-1/4 5/8
		3	RFS Celwave	APXVSPP18-C-A20		
		3	RFS Celwave	APXVTM14-C-120		
		1	--	Platform Mount [LP 601-1]		
108.0	108.0	3	Alcatel Lucent	TME-PCS 1900MHz 4x45W-65MHz	--	--
		1	--	Side Arm Mount [SO 102-3]		
	106.0	3	Alcatel Lucent	TME-800MHz 2X50W RRH W/FILTER		
103.0	103.0	1	--	Platform Mount [LP 601-1]	--	--

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	1405782	CCI Sites
Mount Analysis Report	9628252	CCI Sites
Tower Modification Drawing	2048224	CCI Sites
Post Modification Inspection	2304223	CCI Sites
Tower Modification Drawing	2353860	CCI Sites
Post Modification Inspection	2435103	CCI Sites
Tower Modification Drawing	4491288	CCI Sites
Post Modification Inspection	5246681	CCI Sites
Tower Modification Drawing	5795331	CCI Sites
Post Modification Inspection	6017666	CCI Sites
Tower Modification Drawing	5944786	CCI Sites
Post Modification Inspection	6089847	CCI Sites
Tower Modification Drawing	6708152	CCI Sites
Post Modification Inspection	7137178	CCI Sites
Tower Modification Drawing	7042669	CCI Sites
Post Modification Inspection	7262385	CCI Sites
Foundation Drawing	1405796	CCI Sites
Geotech Report	1406209	CCI Sites
Crown CAD Package	Date: 04/18/2021	CCI Sites

3.1) Analysis Method

tnxTower (version 8.0.9.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

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

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	144.5 - 139.5	Pole	TP22.092x21x0.1875	1	-4.203	800.733	20.3	Pass
L2	139.5 - 134.5	Pole	TP23.184x22.092x0.1875	2	-7.106	840.654	33.2	Pass
L3	134.5 - 129.5	Pole	TP24.276x23.184x0.1875	3	-7.835	880.574	49.5	Pass
L4	129.5 - 124.5	Pole	TP25.368x24.276x0.1875	4	-11.527	920.495	68.5	Pass
L5	124.5 - 121.41	Pole	TP26.882x25.368x0.1875	5	-11.938	945.175	79.6	Pass
L6	121.41 - 116.41	Pole	TP26.737x25.668x0.25	6	-14.880	1290.996	68.5	Pass
L7	116.41 - 112.58	Pole	TP27.555x26.737x0.25	7	-15.531	1330.843	77.8	Pass
L8	112.58 - 112.33	Pole	TP27.608x27.555x0.25	8	-15.601	1333.447	78.4	Pass
L9	112.33 - 107.33	Pole	TP28.677x27.608x0.25	9	-16.940	1385.538	89.3	Pass
L10	107.33 - 106.92	Pole	TP28.765x28.677x0.25	10	-17.035	1389.843	90.2	Pass
L11	106.92 - 106.67	Pole + Reinf.	TP28.818x28.765x0.5375	11	-17.106	2963.625	75.1	Pass
L12	106.67 - 103.5	Pole + Reinf.	TP29.496x28.818x0.525	12	-17.887	2965.326	81.0	Pass
L13	103.5 - 103.25	Pole + Reinf.	TP29.549x29.496x0.525	13	-17.963	2970.796	81.4	Pass
L14	103.25 - 98.5	Pole + Reinf.	TP30.564x29.549x0.5125	14	-20.663	3002.748	90.5	Pass
L15	98.5 - 98.25	Pole + Reinf.	TP30.618x30.564x0.675	15	-20.759	3940.482	69.8	Pass
L16	98.25 - 97.58	Pole + Reinf.	TP30.761x30.618x0.675	16	-20.960	3959.329	70.8	Pass
L17	97.58 - 97.33	Pole + Reinf.	TP30.815x30.761x0.5625	17	-21.035	3317.643	80.5	Pass
L18	97.33 - 92.33	Pole + Reinf.	TP31.883x30.815x0.55	18	-22.429	3359.842	88.1	Pass
L19	92.33 - 91.74	Pole + Reinf.	TP32.997x31.883x0.55	19	-22.604	3373.293	88.9	Pass
L20	91.74 - 86.12	Pole	TP32.72x31.509x0.375	20	-24.823	2364.810	81.9	Pass
L21	86.12 - 83	Pole	TP33.392x32.72x0.375	21	-25.617	2413.918	84.2	Pass
L22	83 - 82.75	Pole	TP33.446x33.392x0.375	22	-25.705	2417.856	84.4	Pass
L23	82.75 - 77.75	Pole	TP34.523x33.446x0.375	23	-26.989	2496.606	87.7	Pass
L24	77.75 - 77.25	Pole	TP34.631x34.523x0.375	24	-27.137	2504.481	88.0	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L25	77.25 - 77	Pole + Reinf.	TP34.685x34.631x0.825	25	-27.250	5446.129	65.1	Pass
L26	77 - 76.75	Pole + Reinf.	TP34.738x34.685x0.6375	26	-27.334	4238.367	83.0	Pass
L27	76.75 - 71.75	Pole + Reinf.	TP35.816x34.738x0.625	27	-29.040	4288.042	86.6	Pass
L28	71.75 - 69	Pole + Reinf.	TP36.408x35.816x0.625	28	-29.994	4360.230	88.5	Pass
L29	69 - 68.75	Pole + Reinf.	TP36.462x36.408x0.8	29	-30.121	5562.196	70.3	Pass
L30	68.75 - 63.75	Pole + Reinf.	TP37.539x36.462x0.7875	30	-32.204	5642.584	73.1	Pass
L31	63.75 - 60	Pole + Reinf.	TP38.347x37.539x0.775	31	-33.795	5676.961	75.1	Pass
L32	60 - 59.75	Pole + Reinf.	TP38.401x38.347x0.775	32	-33.918	5685.099	75.3	Pass
L33	59.75 - 58.5	Pole + Reinf.	TP38.67x38.401x0.775	33	-34.439	5725.786	75.9	Pass
L34	58.5 - 58.25	Pole + Reinf.	TP38.724x38.67x0.775	34	-34.563	5733.924	76.0	Pass
L35	58.25 - 58	Pole + Reinf.	TP38.778x38.724x0.775	35	-34.670	5742.061	76.1	Pass
L36	58 - 57.75	Pole + Reinf.	TP38.832x38.778x0.6125	36	-34.772	4563.919	86.8	Pass
L37	57.75 - 56.75	Pole + Reinf.	TP39.047x38.832x0.6125	37	-35.167	4589.644	87.3	Pass
L38	56.75 - 56.5	Pole + Reinf.	TP39.101x39.047x0.7375	38	-35.291	5516.080	79.3	Pass
L39	56.5 - 51.5	Pole + Reinf.	TP40.178x39.101x0.725	39	-37.474	5576.602	81.5	Pass
L40	51.5 - 47.82	Pole + Reinf.	TP42.216x40.178x0.7125	40	-39.110	5592.384	83.1	Pass
L41	47.82 - 41.04	Pole + Reinf.	TP41.678x40.221x0.7875	41	-44.446	6278.013	80.8	Pass
L42	41.04 - 36.04	Pole + Reinf.	TP42.753x41.678x0.7875	42	-46.876	6443.031	82.4	Pass
L43	36.04 - 31.25	Pole + Reinf.	TP43.783x42.753x0.7625	43	-49.236	6395.329	83.8	Pass
L44	31.25 - 31	Pole + Reinf.	TP43.836x43.783x0.65	44	-49.374	5472.820	82.5	Pass
L45	31 - 27.75	Pole + Reinf.	TP44.535x43.836x0.65	45	-50.958	5561.356	80.2	Pass
L46	27.75 - 27.5	Pole + Reinf.	TP44.589x44.535x0.65	46	-51.098	5568.171	80.2	Pass
L47	27.5 - 27.25	Pole + Reinf.	TP44.642x44.589x0.65	47	-51.222	5574.975	80.3	Pass
L48	27.25 - 27	Pole + Reinf.	TP44.696x44.642x0.725	48	-51.346	6215.244	81.9	Pass
L49	27 - 22	Pole + Reinf.	TP45.771x44.696x0.7125	49	-53.806	6259.113	83.0	Pass
L50	22 - 17	Pole + Reinf.	TP46.846x45.771x0.7125	50	-56.312	6408.412	84.1	Pass
L51	17 - 12	Pole + Reinf.	TP47.921x46.846x0.7125	51	-58.849	6557.712	85.1	Pass
L52	12 - 7	Pole + Reinf.	TP48.995x47.921x0.7125	52	-61.417	6707.022	86.0	Pass
L53	7 - 2	Pole + Reinf.	TP50.07x48.995x0.7	53	-64.018	6737.734	86.8	Pass
L54	2 - 0	Pole + Reinf.	TP50.5x50.07x0.7	54	-65.070	6796.408	87.1	Pass
							Summary	
						Pole (L10)	90.2	Pass
						Reinforcement	90.5	Pass
						Rating =	90.5	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rod Brackets	Base	49.8	Pass
1,2	Anchor Rods	Base	80.7	Pass
1,2	Base Plate	Base	79.3	Pass
1,2	Base Foundation (Structure)	Base	27.2	Pass
1,2	Base Foundation (Soil Interaction)	Base	58.0	Pass
1,2	Concrete Breakout	Base	89.3	Pass

Structure Rating (max from all components) =	90.5%

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

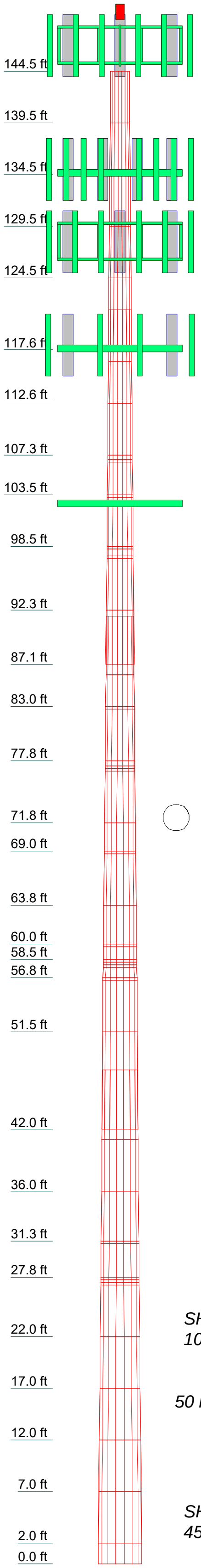
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.000	18	0.188		21.000	22.092	A572-65	0.2
2	5.000	18	0.188		22.092	23.184		0.2
3	5.000	18	0.188		23.184	24.276		0.2
4	5.000	18	0.188		24.276	25.368		0.2
5	5.000 / 6.932	18	0.188	3.841	25.368	26.882		0.4
6	[illegible]	18	0.250		[illegible]	[illegible]		0.4
7	[illegible]	18	[illegible]		[illegible]	[illegible]		0.3
8–13	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
14	[illegible]	18	[illegible]		[illegible]	[illegible]		0.7
15–17	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
18	5.000	18	0.550		[illegible]	[illegible]		0.9
19	[illegible]	18	0.550	4.625	[illegible]	32.997		0.9
20–26	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
27	5.000	18	[illegible]		[illegible]	[illegible]		1.1
28–29	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
30	5.000	18	[illegible]		[illegible]	[illegible]		1.5
31–38	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
39	5.000	18	[illegible]		[illegible]	[illegible]		1.5
40	[illegible]	18	0.713	5.776	40.178	42.215		3.0
41	[illegible]	18	0.787		[illegible]	[illegible]		2.3
42	5.000	18	0.787		[illegible]	[illegible]		1.7
43	[illegible]	18	0.762		42.753	43.783		1.7
44–48	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
49	5.000	18	[illegible]		[illegible]	[illegible]		1.7
50	5.000	18	0.713		45.771	46.846		1.8
51	5.000	18	0.713		46.846	47.921		1.8
52	5.000	18	0.713		47.921	48.995		1.8
53	5.000	18	0.700		48.995	50.070		1.8
54	2.000	18	0.700		50.070	50.505		0.7
								34.4



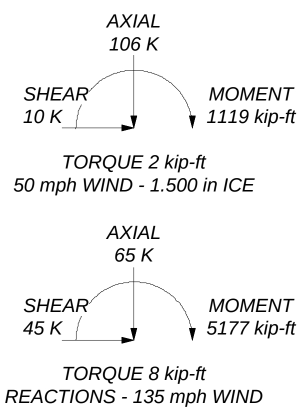
MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in New London County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 135 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 90.5%

ALL REACTIONS ARE FACTORED



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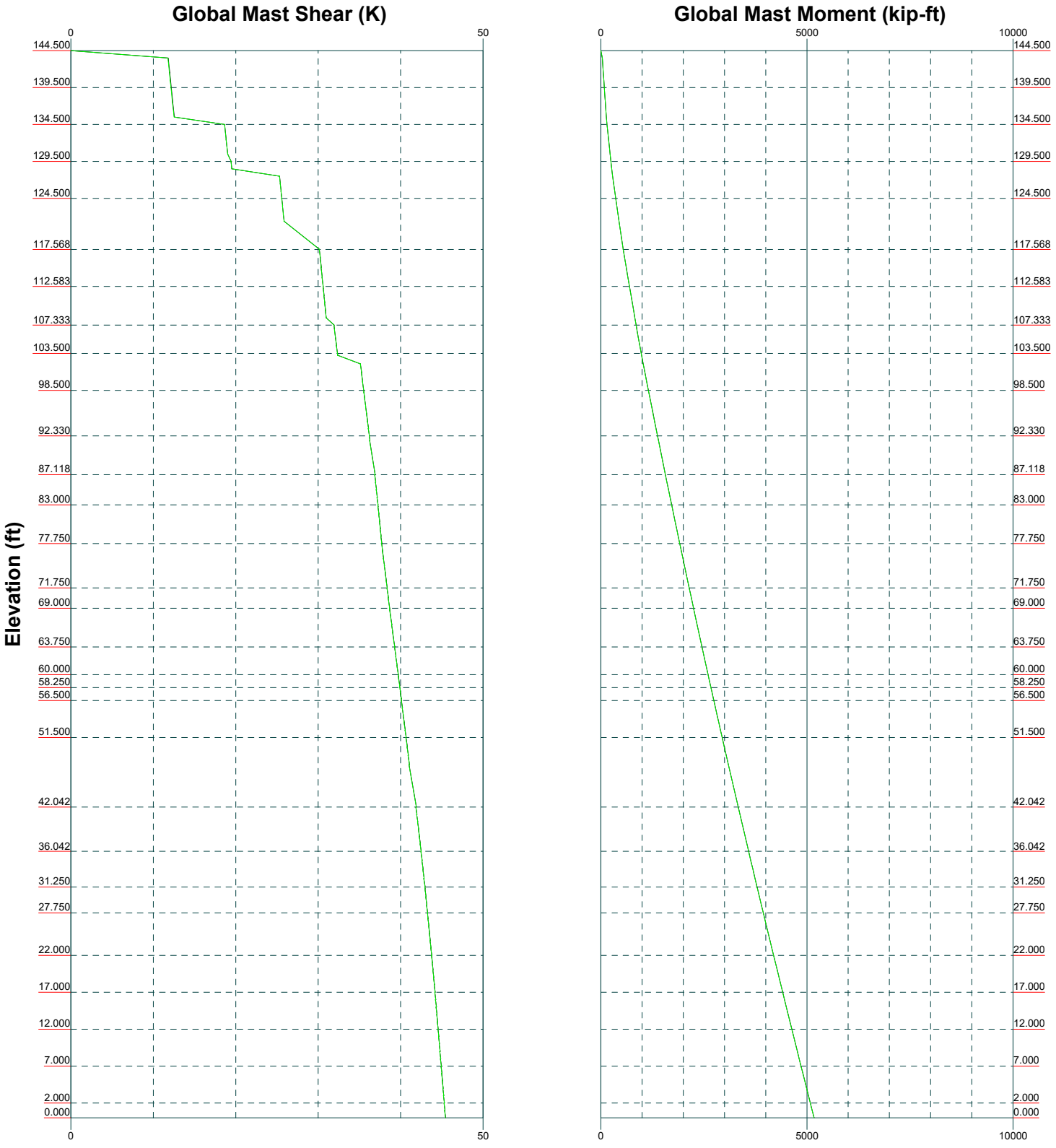
Job:	92739.018.01 - GROTON TOWER, CT (BU# 88153
Project:	
Client: Crown Castle	Drawn by: JD Prabhu	App'd:
Code: TIA-222-H	Date: 05/07/21	Scale: NTS
Path:	Dwg No. E-1

TIA-222-H - 135 mph/50 mph 1.500 in Ice Exposure C

Maximum Values

Vx Vz Mx Mz



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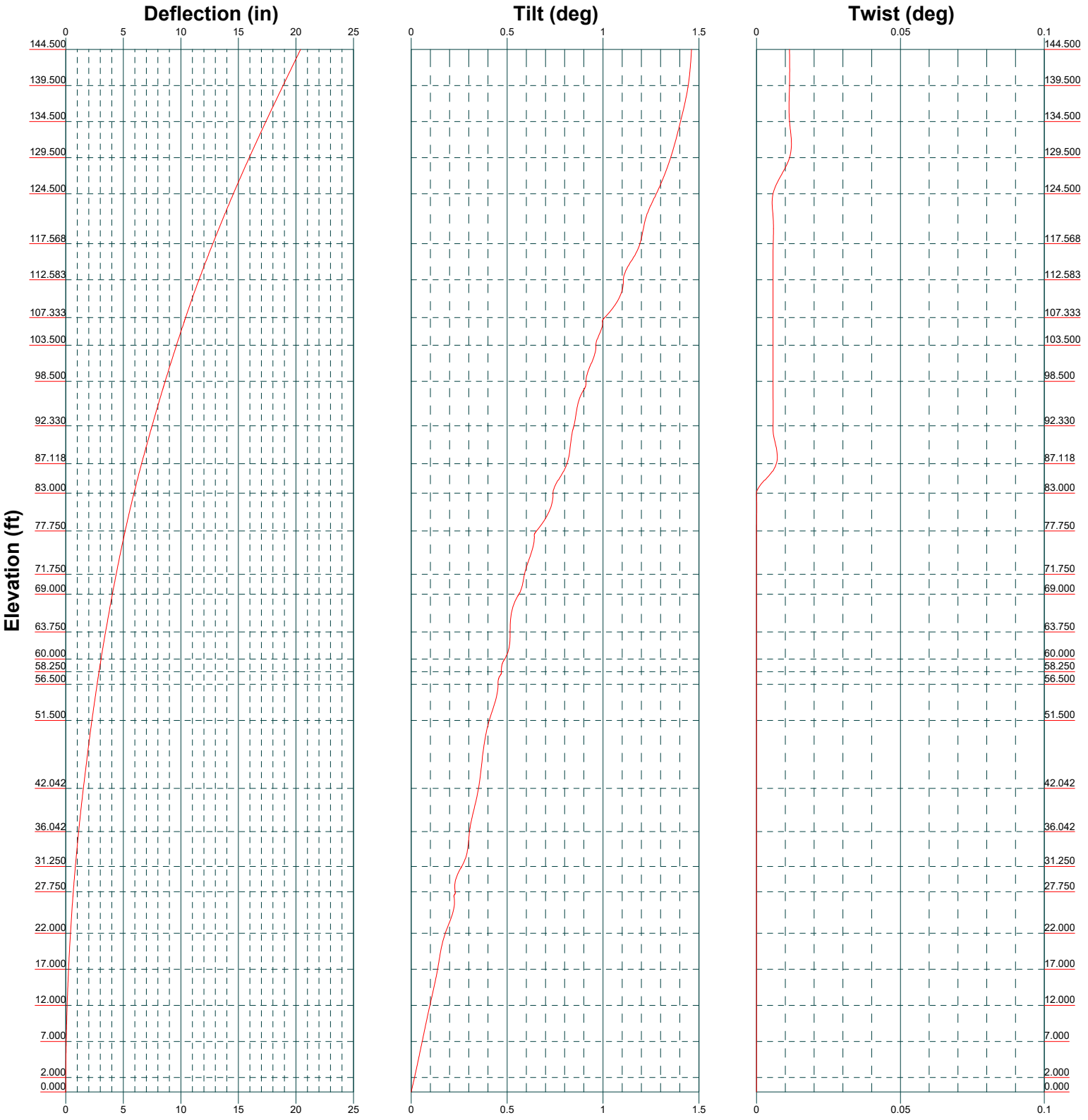
Job: 92739.018.01 - GROTON TOWER, CT (BU# 881533			
Project:			
Client: Crown Castle	Drawn by: JD Prabhu	App'd:	
Code: TIA-222-H	Date: 05/07/21	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-H - Service - 60 mph

Maximum Values



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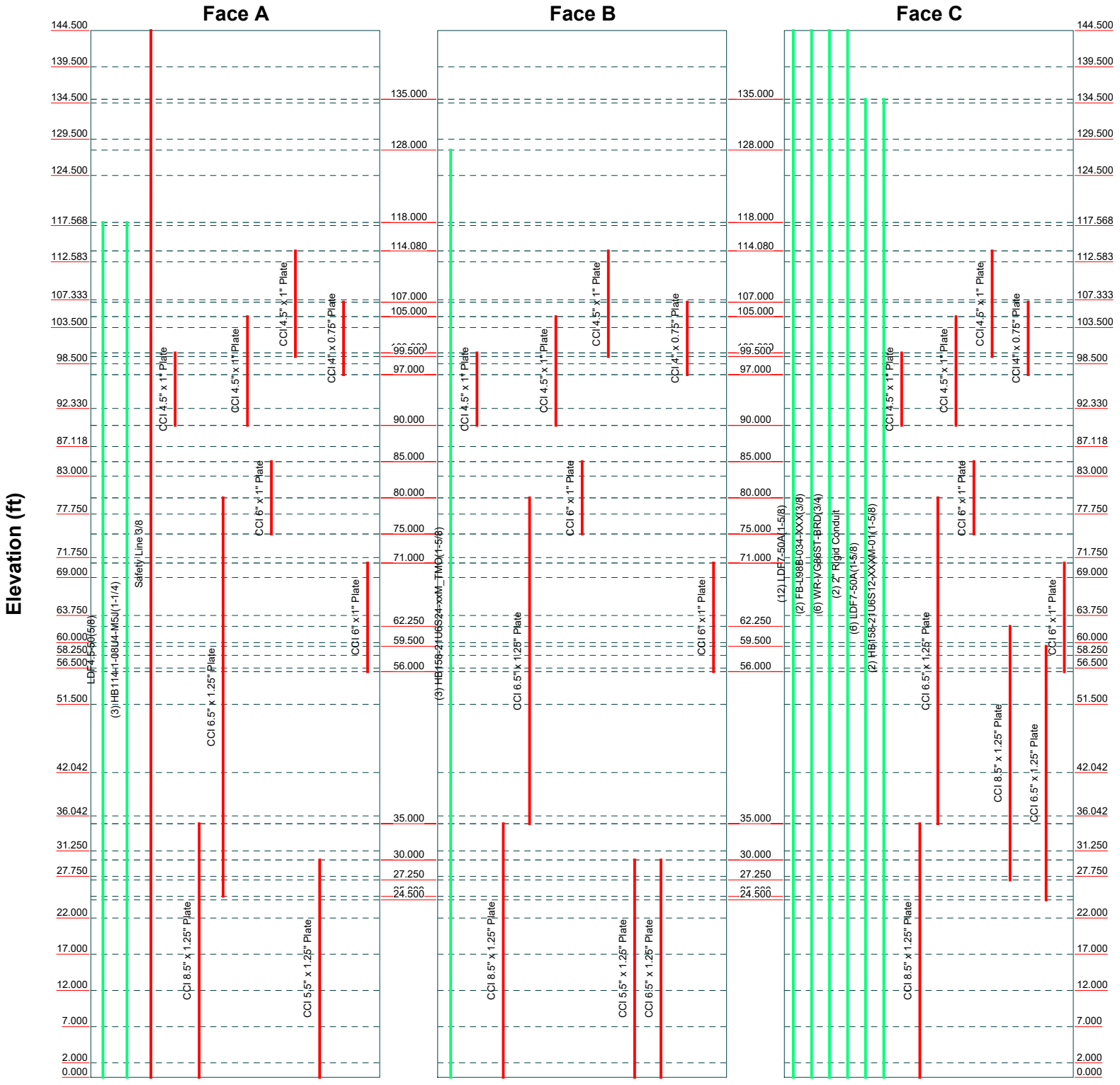
Job: 92739.018.01 - GROTON TOWER, CT (BU# 881533			
Project:			
Client: Crown Castle	Drawn by: JD Prabhu	App'd:	
Code: TIA-222-H	Date: 05/07/21	Scale: NTS	
Path:		Dwg No. E-5	

Feed Line Distribution Chart
0' - 144'6"

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



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Job: 92739.018.01 - GROTON TOWER, CT (BU# 881533			
Project:			
Client: Crown Castle	Drawn by: JD Prabhu	App'd:	
Code: TIA-222-H	Date: 05/07/21	Scale: NTS	
Path:		Dwg No. E-7	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in New London County, Connecticut.
Tower base elevation above sea level: 128.000 ft.
Basic wind speed of 135 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
TOWER RATING: 90.5%.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	144.500-139.500	5.000	0.000	18	21.000	22.092	0.188	0.750	A572-65 (65 ksi)
L2	139.500-134.500	5.000	0.000	18	22.092	23.184	0.188	0.750	A572-65 (65 ksi)
L3	134.500-129.500	5.000	0.000	18	23.184	24.276	0.188	0.750	A572-65 (65 ksi)
L4	129.500-124.500	5.000	0.000	18	24.276	25.368	0.188	0.750	A572-65 (65 ksi)
L5	124.500-117.568	6.932	3.841	18	25.368	26.882	0.188	0.750	A572-65 (65 ksi)
L6	117.568-116.409	5.000	0.000	18	25.668	26.737	0.250	1.000	A572-65 (65 ksi)
L7	116.409-112.583	3.826	0.000	18	26.737	27.555	0.250	1.000	A572-65 (65 ksi)
L8	112.583-112.333	0.250	0.000	18	27.555	27.608	0.250	1.000	A572-65 (65 ksi)
L9	112.333-107.333	5.000	0.000	18	27.608	28.677	0.250	1.000	A572-65 (65 ksi)
L10	107.333-106.920	0.413	0.000	18	28.677	28.765	0.250	1.000	A572-65 (65 ksi)
L11	106.920-106.670	0.250	0.000	18	28.765	28.818	0.537	2.150	A572-65 (65 ksi)
L12	106.670-103.500	3.170	0.000	18	28.818	29.496	0.525	2.100	A572-65 (65 ksi)
L13	103.500-103.250	0.250	0.000	18	29.496	29.549	0.525	2.100	A572-65 (65 ksi)
L14	103.250-98.500	4.750	0.000	18	29.549	30.564	0.512	2.050	A572-65 (65 ksi)
L15	98.500-98.250	0.250	0.000	18	30.564	30.618	0.675	2.700	A572-65 (65 ksi)
L16	98.250-97.580	0.670	0.000	18	30.618	30.761	0.675	2.700	A572-65 (65 ksi)
L17	97.580-97.330	0.250	0.000	18	30.761	30.815	0.563	2.250	A572-65 (65 ksi)
L18	97.330-92.330	5.000	0.000	18	30.815	31.883	0.550	2.200	A572-65 (65 ksi)
L19	92.330-87.118	5.212	4.625	18	31.883	32.997	0.550	2.200	A572-65 (65 ksi)
L20	87.118-86.118	5.625	0.000	18	31.509	32.720	0.375	1.500	A572-65 (65 ksi)
L21	86.118-83.000	3.118	0.000	18	32.720	33.392	0.375	1.500	A572-65 (65 ksi)
L22	83.000-82.750	0.250	0.000	18	33.392	33.446	0.375	1.500	A572-65 (65 ksi)
L23	82.750-77.750	5.000	0.000	18	33.446	34.523	0.375	1.500	A572-65 (65 ksi)
L24	77.750-77.250	0.500	0.000	18	34.523	34.631	0.375	1.500	A572-65 (65 ksi)
L25	77.250-77.000	0.250	0.000	18	34.631	34.685	0.825	3.300	A572-65 (65 ksi)
L26	77.000-76.750	0.250	0.000	18	34.685	34.738	0.637	2.550	A572-65 (65 ksi)
L27	76.750-71.750	5.000	0.000	18	34.738	35.816	0.625	2.500	A572-65 (65 ksi)
L28	71.750-69.000	2.750	0.000	18	35.816	36.408	0.625	2.500	A572-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L29	69.000-68.750	0.250	0.000	18	36.408	36.462	0.800	3.200	A572-65 (65 ksi)
L30	68.750-63.750	5.000	0.000	18	36.462	37.539	0.787	3.150	A572-65 (65 ksi)
L31	63.750-60.000	3.750	0.000	18	37.539	38.347	0.775	3.100	A572-65 (65 ksi)
L32	60.000-59.750	0.250	0.000	18	38.347	38.401	0.775	3.100	A572-65 (65 ksi)
L33	59.750-58.500	1.250	0.000	18	38.401	38.670	0.775	3.100	A572-65 (65 ksi)
L34	58.500-58.250	0.250	0.000	18	38.670	38.724	0.775	3.100	A572-65 (65 ksi)
L35	58.250-58.000	0.250	0.000	18	38.724	38.778	0.775	3.100	A572-65 (65 ksi)
L36	58.000-57.750	0.250	0.000	18	38.778	38.832	0.613	2.450	A572-65 (65 ksi)
L37	57.750-56.750	1.000	0.000	18	38.832	39.047	0.613	2.450	A572-65 (65 ksi)
L38	56.750-56.500	0.250	0.000	18	39.047	39.101	0.738	2.950	A572-65 (65 ksi)
L39	56.500-51.500	5.000	0.000	18	39.101	40.178	0.725	2.900	A572-65 (65 ksi)
L40	51.500-42.042	9.458	5.776	18	40.178	42.215	0.713	2.850	A572-65 (65 ksi)
L41	42.042-41.042	6.776	0.000	18	40.221	41.678	0.787	3.150	A572-65 (65 ksi)
L42	41.042-36.042	5.000	0.000	18	41.678	42.753	0.787	3.150	A572-65 (65 ksi)
L43	36.042-31.250	4.792	0.000	18	42.753	43.783	0.762	3.050	A572-65 (65 ksi)
L44	31.250-31.000	0.250	0.000	18	43.783	43.836	0.650	2.600	A572-65 (65 ksi)
L45	31.000-27.750	3.250	0.000	18	43.836	44.535	0.650	2.600	A572-65 (65 ksi)
L46	27.750-27.500	0.250	0.000	18	44.535	44.589	0.650	2.600	A572-65 (65 ksi)
L47	27.500-27.250	0.250	0.000	18	44.589	44.642	0.650	2.600	A572-65 (65 ksi)
L48	27.250-27.000	0.250	0.000	18	44.642	44.696	0.725	2.900	A572-65 (65 ksi)
L49	27.000-22.000	5.000	0.000	18	44.696	45.771	0.713	2.850	A572-65 (65 ksi)
L50	22.000-17.000	5.000	0.000	18	45.771	46.846	0.713	2.850	A572-65 (65 ksi)
L51	17.000-12.000	5.000	0.000	18	46.846	47.921	0.713	2.850	A572-65 (65 ksi)
L52	12.000-7.000	5.000	0.000	18	47.921	48.995	0.713	2.850	A572-65 (65 ksi)
L53	7.000-2.000	5.000	0.000	18	48.995	50.070	0.700	2.800	A572-65 (65 ksi)
L54	2.000-0.000	2.000		18	50.070	50.500	0.700	2.800	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	21.295	12.386	677.826	7.388	10.668	63.538	1356.544	6.194	3.366	17.952
	22.404	13.036	790.221	7.776	11.223	70.412	1581.483	6.519	3.558	18.977
L2	22.404	13.036	790.221	7.776	11.223	70.412	1581.483	6.519	3.558	18.977
	23.513	13.686	914.401	8.164	11.778	77.640	1830.006	6.844	3.750	20.002
L3	23.513	13.686	914.401	8.164	11.778	77.640	1830.006	6.844	3.750	20.002
	24.622	14.336	1050.954	8.551	12.332	85.220	2103.290	7.169	3.943	21.027
L4	24.622	14.336	1050.954	8.551	12.332	85.220	2103.290	7.169	3.943	21.027
	25.731	14.986	1200.465	8.939	12.887	93.153	2402.511	7.494	4.135	22.052
L5	25.731	14.986	1200.465	8.939	12.887	93.153	2402.511	7.494	4.135	22.052
	27.268	15.887	1430.295	9.477	13.656	104.736	2862.472	7.945	4.401	23.474
L6	26.859	20.169	1646.369	9.024	13.040	126.260	3294.904	10.087	4.078	16.311
	27.111	21.017	1862.865	9.403	13.582	137.153	3728.181	10.511	4.266	17.063
L7	27.111	21.017	1862.865	9.403	13.582	137.153	3728.181	10.511	4.266	17.063
	27.941	21.666	2040.766	9.693	13.998	145.792	4084.218	10.835	4.410	17.638
L8	27.941	21.666	2040.766	9.693	13.998	145.792	4084.218	10.835	4.410	17.638
	27.995	21.709	2052.770	9.712	14.025	146.366	4108.241	10.856	4.419	17.676
L9	27.995	21.709	2052.770	9.712	14.025	146.366	4108.241	10.856	4.419	17.676
	29.080	22.557	2302.832	10.091	14.568	158.077	4608.695	11.280	4.607	18.428
L10	29.080	22.557	2302.832	10.091	14.568	158.077	4608.695	11.280	4.607	18.428
	29.170	22.627	2324.350	10.123	14.613	159.065	4651.759	11.315	4.623	18.491
L11	29.126	48.157	4847.716	10.021	14.613	331.749	9701.811	24.083	4.117	7.659
	29.180	48.248	4875.296	10.040	14.640	333.018	9757.007	24.129	4.126	7.676
L12	29.182	47.147	4768.234	10.044	14.640	325.705	9542.743	23.578	4.148	7.901
	29.870	48.276	5119.035	10.285	14.984	341.636	10244.805	24.142	4.267	8.128
L13	29.870	48.276	5119.035	10.285	14.984	341.636	10244.805	24.142	4.267	8.128
	29.924	48.365	5147.410	10.304	15.011	342.908	10301.593	24.187	4.277	8.146
L14	29.926	47.233	5031.348	10.308	15.011	335.176	10069.315	23.621	4.299	8.388
	30.957	48.885	5577.727	10.668	15.527	359.233	11162.794	24.447	4.477	8.736
L15	30.932	64.037	7227.748	10.611	15.527	465.503	14465.006	32.024	4.191	6.209
	30.986	64.151	7266.578	10.630	15.554	467.187	14542.718	32.082	4.201	6.223
L16	30.986	64.151	7266.578	10.630	15.554	467.187	14542.718	32.082	4.201	6.223
	31.132	64.458	7371.329	10.681	15.627	471.716	14752.357	32.235	4.226	6.261
L17	31.149	53.916	6211.940	10.721	15.627	397.523	12432.055	26.963	4.424	7.865
	31.203	54.011	6244.971	10.739	15.654	398.943	12498.160	27.011	4.433	7.882
L18	31.205	52.833	6113.766	10.744	15.654	390.562	12235.577	26.421	4.455	8.101
	32.290	54.698	6784.514	11.123	16.197	418.884	13577.956	27.354	4.643	8.443
L19	32.290	54.698	6784.514	11.123	16.197	418.884	13577.956	27.354	4.643	8.443
	33.421	56.643	7534.158	11.519	16.763	449.464	15078.230	28.327	4.839	8.799
L20	32.949	37.057	4538.007	11.052	16.006	283.512	9081.986	18.532	4.886	13.028
	33.167	38.499	5088.777	11.483	16.622	306.148	10184.250	19.253	5.099	13.597
L21	33.167	38.499	5088.777	11.483	16.622	306.148	10184.250	19.253	5.099	13.597
	33.849	39.299	5412.411	11.721	16.963	319.068	10831.944	19.653	5.217	13.912
L22	33.849	39.299	5412.411	11.721	16.963	319.068	10831.944	19.653	5.217	13.912
	33.904	39.363	5438.940	11.740	16.991	320.116	10885.037	19.685	5.226	13.937
L23	33.904	39.363	5438.940	11.740	16.991	320.116	10885.037	19.685	5.226	13.937
	34.998	40.645	5987.880	12.123	17.538	341.429	11983.639	20.326	5.416	14.443
L24	34.998	40.645	5987.880	12.123	17.538	341.429	11983.639	20.326	5.416	14.443
	35.107	40.773	6044.721	12.161	17.592	343.598	12097.396	20.390	5.435	14.493
L25	35.038	88.522	12781.159	12.001	17.592	726.515	25579.137	44.269	4.643	5.628
	35.092	88.663	12842.342	12.020	17.620	728.859	25701.583	44.340	4.652	5.639
L26	35.121	68.892	10089.401	12.087	17.620	572.618	20192.078	34.452	4.982	7.816
	35.176	69.001	10137.356	12.106	17.647	574.447	20288.050	34.507	4.992	7.831
L27	35.178	67.673	9949.517	12.110	17.647	563.803	19912.126	33.843	5.014	8.022
	36.272	69.809	10922.052	12.493	18.194	600.300	21858.476	34.911	5.204	8.326
L28	36.272	69.809	10922.052	12.493	18.194	600.300	21858.476	34.911	5.204	8.326
	36.873	70.985	11482.996	12.703	18.495	620.861	22981.101	35.499	5.308	8.492
L29	36.846	90.416	14483.639	12.641	18.495	783.100	28986.335	45.217	5.000	6.25
	36.901	90.553	14549.457	12.660	18.523	785.496	29118.058	45.285	5.009	6.262
L30	36.903	89.169	14337.187	12.664	18.523	774.036	28693.239	44.593	5.031	6.389
	37.997	91.861	15675.454	13.047	19.070	822.004	31371.535	45.939	5.221	6.63
L31	37.999	90.434	15442.384	13.051	19.070	809.782	30905.087	45.226	5.243	6.765
	38.819	92.421	16482.901	13.338	19.480	846.136	32987.491	46.219	5.385	6.948

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L32	38.819	92.421	16482.901	13.338	19.480	846.136	32987.491	46.219	5.385	6.948
	38.874	92.554	16553.884	13.357	19.508	848.588	33129.550	46.286	5.395	6.961
L33	38.874	92.554	16553.884	13.357	19.508	848.588	33129.550	46.286	5.395	6.961
	39.147	93.216	16911.855	13.453	19.644	860.902	33845.963	46.617	5.442	7.022
L34	39.147	93.216	16911.855	13.453	19.644	860.902	33845.963	46.617	5.442	7.022
	39.202	93.348	16984.063	13.472	19.672	863.375	33990.474	46.683	5.451	7.034
L35	39.202	93.348	16984.063	13.472	19.672	863.375	33990.474	46.683	5.451	7.034
	39.256	93.481	17056.476	13.491	19.699	865.852	34135.396	46.749	5.461	7.046
L36	39.281	74.196	13653.782	13.549	19.699	693.118	27325.531	37.105	5.747	9.383
	39.336	74.301	13711.666	13.568	19.726	695.091	27441.374	37.157	5.756	9.398
L37	39.336	74.301	13711.666	13.568	19.726	695.091	27441.374	37.157	5.756	9.398
	39.555	74.720	13944.837	13.644	19.836	703.011	27908.023	37.367	5.794	9.46
L38	39.536	89.676	16627.429	13.600	19.836	838.251	33276.738	44.846	5.574	7.558
	39.590	89.802	16697.654	13.619	19.863	840.632	33417.279	44.909	5.584	7.571
L39	39.592	88.309	16430.693	13.623	19.863	827.192	32883.006	44.163	5.606	7.732
	40.686	90.787	17853.412	14.006	20.410	874.721	35730.317	45.402	5.795	7.994
L40	40.688	89.250	17562.277	14.010	20.410	860.457	35147.663	44.634	5.817	8.165
	42.757	93.858	20425.266	14.734	21.445	952.428	40877.407	46.938	6.176	8.668
L41	41.981	98.566	19364.112	13.999	20.432	947.717	38753.704	49.292	5.693	7.229
	42.199	102.206	21590.086	14.516	21.172	1019.733	43208.582	51.113	5.949	7.555
L42	42.199	102.206	21590.086	14.516	21.172	1019.733	43208.582	51.113	5.949	7.555
	43.291	104.893	23337.694	14.898	21.718	1074.564	46706.096	52.456	6.138	7.795
L43	43.294	101.623	22637.224	14.906	21.718	1042.311	45304.234	50.821	6.182	8.108
	44.340	104.116	24344.325	15.272	22.242	1094.543	48720.684	52.068	6.364	8.346
L44	44.358	88.987	20915.773	15.312	22.242	940.392	41859.068	44.502	6.562	10.095
	44.412	89.098	20994.048	15.331	22.269	942.754	42015.721	44.557	6.571	10.11
L45	44.412	89.098	20994.048	15.331	22.269	942.754	42015.721	44.557	6.571	10.11
	45.122	90.539	22029.462	15.579	22.624	973.732	44087.911	45.278	6.694	10.299
L46	45.122	90.539	22029.462	15.579	22.624	973.732	44087.911	45.278	6.694	10.299
	45.176	90.650	22110.490	15.598	22.651	976.136	44250.073	45.334	6.704	10.313
L47	45.176	90.650	22110.490	15.598	22.651	976.136	44250.073	45.334	6.704	10.313
	45.231	90.761	22191.716	15.617	22.678	978.542	44412.632	45.389	6.713	10.328
L48	45.219	101.061	24625.918	15.591	22.678	1085.878	49284.240	50.540	6.581	9.077
	45.274	101.184	24716.429	15.610	22.706	1088.559	49465.381	50.602	6.591	9.09
L49	45.276	99.468	24311.005	15.614	22.706	1070.703	48653.999	49.743	6.613	9.281
	46.367	101.899	26137.107	15.996	23.252	1124.098	52308.605	50.959	6.802	9.546
L50	46.367	101.899	26137.107	15.996	23.252	1124.098	52308.605	50.959	6.802	9.546
	47.458	104.329	28052.436	16.377	23.798	1178.791	56141.785	52.174	6.991	9.812
L51	47.458	104.329	28052.436	16.377	23.798	1178.791	56141.785	52.174	6.991	9.812
	48.550	106.760	30059.123	16.759	24.344	1234.784	60157.798	53.390	7.180	10.077
L52	48.550	106.760	30059.123	16.759	24.344	1234.784	60157.798	53.390	7.180	10.077
	49.641	109.190	32159.294	17.140	24.890	1292.077	64360.904	54.606	7.369	10.343
L53	49.643	107.302	31619.641	17.145	24.890	1270.395	63280.888	53.661	7.391	10.559
	50.735	109.690	33778.008	17.526	25.436	1327.981	67600.462	54.856	7.580	10.829
L54	50.735	109.690	33778.008	17.526	25.436	1327.981	67600.462	54.856	7.580	10.829
	51.171	110.646	34668.132	17.679	25.654	1351.373	69381.881	55.333	7.656	10.937

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 144.500-139.500				1	1	1			
L2 139.500-134.500				1	1	1			
L3 134.500-129.500				1	1	1			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L4 129.500-124.500				1	1	1			
L5 124.500-117.568				1	1	1			
L6 117.568-116.409				1	1	1			
L7 116.409-112.583				1	1	1			
L8 112.583-112.333				1	1	1			
L9 112.333-107.333				1	1	1			
L10 107.333-106.920				1	1	1			
L11 106.920-106.670				1	1	0.936203			
L12 106.670-103.500				1	1	0.946801			
L13 103.500-103.250				1	1	0.945935			
L14 103.250-98.500				1	1	0.952348			
L15 98.500-98.250				1	1	0.936822			
L16 98.250-97.580				1	1	0.934126			
L17 97.580-97.330				1	1	0.94895			
L18 97.330-92.330				1	1	0.952532			
L19 92.330-87.118				1	1	0.950546			
L20 87.118-86.118				1	1	1			
L21 86.118-83.000				1	1	1			
L22 83.000-82.750				1	1	1			
L23 82.750-77.750				1	1	1			
L24 77.750-77.250				1	1	1			
L25 77.250-77.000				1	1	0.938536			
L26 77.000-76.750				1	1	0.946033			
L27 76.750-71.750				1	1	0.95344			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L28 71.750-69.000				1	1	0.947589			
L29 69.000-68.750				1	1	0.942313			
L30 68.750-63.750				1	1	0.942845			
L31 63.750-60.000				1	1	0.947538			
L32 60.000-59.750				1	1	0.946874			
L33 59.750-58.500				1	1	0.943584			
L34 58.500-58.250				1	1	0.942932			
L35 58.250-58.000				1	1	0.942281			
L36 58.000-57.750				1	1	1.08713			
L37 57.750-56.750				1	1	1.08446			
L38 56.750-56.500				1	1	0.99352			
L39 56.500-51.500				1	1	0.996859			
L40 51.500-42.042				1	1	1.00442			
L41 42.042-41.042				1	1	0.982267			
L42 41.042-36.042				1	1	0.971338			
L43 36.042-31.250				1	1	0.992321			
L44 31.250-31.000				1	1	1.12535			
L45 31.000-27.750				1	1	1.11815			
L46 27.750-27.500				1	1	1.11761			
L47 27.500-27.250				1	1	1.11706			
L48 27.250-27.000				1	1	1.00273			
L49 27.000-22.000				1	1	1.01034			
L50 22.000-17.000				1	1	1.00111			
L51 17.000-12.000				1	1	0.992299			
L52 12.000-7.000				1	1	0.983878			
L53 7.000-2.000				1	1	0.992999			
L54 2.000-0.000				1	1	0.989822			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
*										
Safety Line 3/8	A	No	Surface Ar (CaAa)	144.500 - 0.000	1	1	0.490 0.500	0.375		0.000
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	100.000 - 90.000	1	1	0.100 0.100	4.500	11.000	0.000
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	100.000 - 90.000	1	1	0.100 0.100	4.500	11.000	0.000
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	100.000 - 90.000	1	1	0.100 0.100	4.500	11.000	0.000
*										
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	35.000 - 0.000	1	1	0.100 0.100	8.500	19.500	0.000
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	35.000 - 0.000	1	1	-0.250 -0.250	8.500	19.500	0.000
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	35.000 - 0.000	1	1	-0.250 -0.250	8.500	19.500	0.000
*										
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	80.000 - 25.000	1	1	-0.250 -0.250	6.500	15.500	0.000
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	80.000 - 35.000	1	1	-0.250 -0.250	6.500	15.500	0.000
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	80.000 - 35.000	1	1	-0.250 -0.250	6.500	15.500	0.000
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	105.000 - 90.000	1	1	-0.100 -0.100	4.500	11.000	0.000
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	105.000 - 90.000	1	1	-0.100 -0.100	4.500	11.000	0.000
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	105.000 - 90.000	1	1	-0.100 -0.100	4.500	11.000	0.000
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	85.000 - 75.000	1	1	0.100 0.100	6.000	14.000	0.000
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	85.000 - 75.000	1	1	0.100 0.100	6.000	14.000	0.000
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	85.000 - 75.000	1	1	0.100 0.100	6.000	14.000	0.000
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	114.080 - 99.500	1	1	0.450 0.450	4.500	11.000	0.000
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	114.080 - 99.500	1	1	0.450 0.450	4.500	11.000	0.000
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	114.080 - 99.500	1	1	0.450 0.450	4.500	11.000	0.000
*										
CCI 5.5" x 1.25" Plate	A	No	Surface Af (CaAa)	30.000 - 0.000	1	1	-0.450 -0.450	5.500	13.500	0.000
CCI 5.5" x 1.25" Plate	B	No	Surface Af (CaAa)	30.000 - 0.000	1	1	0.450 0.450	5.500	13.500	0.000
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	30.000 - 0.000	1	1	-0.150 -0.150	6.500	15.500	0.000
*										
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	62.250 - 27.250	1	1	0.250 0.250	8.500	19.500	0.000
*										
CCI 4" x 0.75" Plate	A	No	Surface Af	107.000 -	1	1	-0.250	4.000	9.500	0.000

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
			(CaAa)	97.000			-0.250			
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	107.000 - 97.000	1	1	-0.250 -0.250	4.000	9.500	0.000
CCI 4" x 0.75" Plate	C	No	Surface Af (CaAa)	107.000 - 97.000	1	1	-0.250 -0.250	4.000	9.500	0.000
*										
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	59.500 - 24.500	1	1	0.000 0.000	6.500	15.500	0.000
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	71.000 - 56.000	1	1	0.000 0.000	6.000	14.000	0.000
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	71.000 - 56.000	1	1	0.000 0.000	6.000	14.000	0.000
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	71.000 - 56.000	1	1	0.000 0.000	6.000	14.000	0.000
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
LDF7-50A(1-5/8)	C	No	No	Inside Pole	144.500 - 0.000	12	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	144.500 - 0.000	2	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	144.500 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
2" Rigid Conduit	C	No	No	Inside Pole	144.500 - 0.000	2	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
*									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	135.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
HB158-21U6S12-XXXM-01(1-5/8)	C	No	No	Inside Pole	135.000 - 0.000	2	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
							2" Ice	0.000	0.002
*									
HB158-21U6S24-xxM_TMO(1-5/8)	B	No	No	Inside Pole	128.000 - 0.000	3	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
*									
LDF4.5-50(5/8)	A	No	No	Inside Pole	118.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
HB114-1-08U4-M5J (1-1/4) *	A	No	No	Inside Pole	118.000 - 0.000	3	2" Ice	0.000	0.000
							No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	144.500-139.500	A	0.000	0.000	0.188	0.000	0.001
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.095
L2	139.500-134.500	A	0.000	0.000	0.188	0.000	0.001
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.100
L3	134.500-129.500	A	0.000	0.000	0.188	0.000	0.001
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.139
L4	129.500-124.500	A	0.000	0.000	0.188	0.000	0.001
		B	0.000	0.000	0.000	0.000	0.026
		C	0.000	0.000	0.000	0.000	0.139
L5	124.500-117.568	A	0.000	0.000	0.260	0.000	0.003
		B	0.000	0.000	0.000	0.000	0.052
		C	0.000	0.000	0.000	0.000	0.193
L6	117.568-116.409	A	0.000	0.000	0.043	0.000	0.004
		B	0.000	0.000	0.000	0.000	0.009
		C	0.000	0.000	0.000	0.000	0.032
L7	116.409-112.583	A	0.000	0.000	1.266	0.000	0.014
		B	0.000	0.000	1.123	0.000	0.029
		C	0.000	0.000	1.123	0.000	0.106
L8	112.583-112.333	A	0.000	0.000	0.197	0.000	0.001
		B	0.000	0.000	0.188	0.000	0.002
		C	0.000	0.000	0.188	0.000	0.007
L9	112.333-107.333	A	0.000	0.000	3.938	0.000	0.018
		B	0.000	0.000	3.750	0.000	0.037
		C	0.000	0.000	3.750	0.000	0.139
L10	107.333-106.920	A	0.000	0.000	0.379	0.000	0.001
		B	0.000	0.000	0.363	0.000	0.003
		C	0.000	0.000	0.363	0.000	0.011
L11	106.920-106.670	A	0.000	0.000	0.364	0.000	0.001
		B	0.000	0.000	0.354	0.000	0.002
		C	0.000	0.000	0.354	0.000	0.007
L12	106.670-103.500	A	0.000	0.000	5.735	0.000	0.011
		B	0.000	0.000	5.616	0.000	0.024
		C	0.000	0.000	5.616	0.000	0.088
L13	103.500-103.250	A	0.000	0.000	0.551	0.000	0.001
		B	0.000	0.000	0.542	0.000	0.002
		C	0.000	0.000	0.542	0.000	0.007
L14	103.250-98.500	A	0.000	0.000	10.845	0.000	0.017
		B	0.000	0.000	10.667	0.000	0.036
		C	0.000	0.000	10.667	0.000	0.132

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L15	98.500-98.250	A	0.000	0.000	0.551	0.000	0.001
		B	0.000	0.000	0.542	0.000	0.002
		C	0.000	0.000	0.542	0.000	0.007
L16	98.250-97.580	A	0.000	0.000	1.477	0.000	0.002
		B	0.000	0.000	1.452	0.000	0.005
		C	0.000	0.000	1.452	0.000	0.019
L17	97.580-97.330	A	0.000	0.000	0.551	0.000	0.001
		B	0.000	0.000	0.542	0.000	0.002
		C	0.000	0.000	0.542	0.000	0.007
L18	97.330-92.330	A	0.000	0.000	7.907	0.000	0.018
		B	0.000	0.000	7.720	0.000	0.037
		C	0.000	0.000	7.720	0.000	0.139
L19	92.330-87.118	A	0.000	0.000	3.690	0.000	0.019
		B	0.000	0.000	3.495	0.000	0.039
		C	0.000	0.000	3.495	0.000	0.145
L20	87.118-86.118	A	0.000	0.000	0.037	0.000	0.004
		B	0.000	0.000	0.000	0.000	0.007
		C	0.000	0.000	0.000	0.000	0.028
L21	86.118-83.000	A	0.000	0.000	1.941	0.000	0.011
		B	0.000	0.000	1.824	0.000	0.023
		C	0.000	0.000	1.824	0.000	0.087
L22	83.000-82.750	A	0.000	0.000	0.237	0.000	0.001
		B	0.000	0.000	0.228	0.000	0.002
		C	0.000	0.000	0.228	0.000	0.007
L23	82.750-77.750	A	0.000	0.000	7.186	0.000	0.018
		B	0.000	0.000	6.998	0.000	0.037
		C	0.000	0.000	6.998	0.000	0.139
L24	77.750-77.250	A	0.000	0.000	1.016	0.000	0.002
		B	0.000	0.000	0.998	0.000	0.004
		C	0.000	0.000	0.998	0.000	0.014
L25	77.250-77.000	A	0.000	0.000	0.508	0.000	0.001
		B	0.000	0.000	0.499	0.000	0.002
		C	0.000	0.000	0.499	0.000	0.007
L26	77.000-76.750	A	0.000	0.000	0.508	0.000	0.001
		B	0.000	0.000	0.499	0.000	0.002
		C	0.000	0.000	0.499	0.000	0.007
L27	76.750-71.750	A	0.000	0.000	7.200	0.000	0.018
		B	0.000	0.000	7.013	0.000	0.037
		C	0.000	0.000	7.013	0.000	0.139
L28	71.750-69.000	A	0.000	0.000	5.082	0.000	0.010
		B	0.000	0.000	4.979	0.000	0.021
		C	0.000	0.000	4.979	0.000	0.076
L29	69.000-68.750	A	0.000	0.000	0.530	0.000	0.001
		B	0.000	0.000	0.521	0.000	0.002
		C	0.000	0.000	0.521	0.000	0.007
L30	68.750-63.750	A	0.000	0.000	10.604	0.000	0.018
		B	0.000	0.000	10.417	0.000	0.037
		C	0.000	0.000	10.417	0.000	0.139
L31	63.750-60.000	A	0.000	0.000	7.953	0.000	0.014
		B	0.000	0.000	7.813	0.000	0.028
		C	0.000	0.000	11.000	0.000	0.104
L32	60.000-59.750	A	0.000	0.000	0.530	0.000	0.001
		B	0.000	0.000	0.521	0.000	0.002
		C	0.000	0.000	0.875	0.000	0.007
L33	59.750-58.500	A	0.000	0.000	2.651	0.000	0.005
		B	0.000	0.000	2.604	0.000	0.009
		C	0.000	0.000	5.458	0.000	0.035
L34	58.500-58.250	A	0.000	0.000	0.530	0.000	0.001
		B	0.000	0.000	0.521	0.000	0.002
		C	0.000	0.000	1.146	0.000	0.007
L35	58.250-58.000	A	0.000	0.000	0.530	0.000	0.001

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	0.521	0.000	0.002
		C	0.000	0.000	1.146	0.000	0.007
L36	58.000-57.750	A	0.000	0.000	0.530	0.000	0.001
		B	0.000	0.000	0.521	0.000	0.002
		C	0.000	0.000	1.146	0.000	0.007
L37	57.750-56.750	A	0.000	0.000	2.121	0.000	0.004
		B	0.000	0.000	2.083	0.000	0.007
		C	0.000	0.000	4.583	0.000	0.028
L38	56.750-56.500	A	0.000	0.000	0.530	0.000	0.001
		B	0.000	0.000	0.521	0.000	0.002
		C	0.000	0.000	1.146	0.000	0.007
L39	56.500-51.500	A	0.000	0.000	6.104	0.000	0.018
		B	0.000	0.000	5.917	0.000	0.037
		C	0.000	0.000	18.417	0.000	0.139
L40	51.500-42.042	A	0.000	0.000	10.601	0.000	0.034
		B	0.000	0.000	10.246	0.000	0.071
		C	0.000	0.000	33.892	0.000	0.263
L41	42.042-41.042	A	0.000	0.000	1.121	0.000	0.004
		B	0.000	0.000	1.083	0.000	0.007
		C	0.000	0.000	3.583	0.000	0.028
L42	41.042-36.042	A	0.000	0.000	5.604	0.000	0.018
		B	0.000	0.000	5.417	0.000	0.037
		C	0.000	0.000	17.917	0.000	0.139
L43	36.042-31.250	A	0.000	0.000	10.683	0.000	0.017
		B	0.000	0.000	6.441	0.000	0.036
		C	0.000	0.000	18.421	0.000	0.133
L44	31.250-31.000	A	0.000	0.000	0.634	0.000	0.001
		B	0.000	0.000	0.354	0.000	0.002
		C	0.000	0.000	0.979	0.000	0.007
L45	31.000-27.750	A	0.000	0.000	10.309	0.000	0.012
		B	0.000	0.000	9.104	0.000	0.024
		C	0.000	0.000	12.729	0.000	0.090
L46	27.750-27.500	A	0.000	0.000	0.864	0.000	0.001
		B	0.000	0.000	0.854	0.000	0.002
		C	0.000	0.000	0.979	0.000	0.007
L47	27.500-27.250	A	0.000	0.000	0.864	0.000	0.001
		B	0.000	0.000	0.854	0.000	0.002
		C	0.000	0.000	0.979	0.000	0.007
L48	27.250-27.000	A	0.000	0.000	0.864	0.000	0.001
		B	0.000	0.000	0.854	0.000	0.002
		C	0.000	0.000	0.625	0.000	0.007
L49	27.000-22.000	A	0.000	0.000	14.021	0.000	0.018
		B	0.000	0.000	17.083	0.000	0.037
		C	0.000	0.000	9.792	0.000	0.139
L50	22.000-17.000	A	0.000	0.000	11.854	0.000	0.018
		B	0.000	0.000	17.083	0.000	0.037
		C	0.000	0.000	7.083	0.000	0.139
L51	17.000-12.000	A	0.000	0.000	11.854	0.000	0.018
		B	0.000	0.000	17.083	0.000	0.037
		C	0.000	0.000	7.083	0.000	0.139
L52	12.000-7.000	A	0.000	0.000	11.854	0.000	0.018
		B	0.000	0.000	17.083	0.000	0.037
		C	0.000	0.000	7.083	0.000	0.139
L53	7.000-2.000	A	0.000	0.000	11.854	0.000	0.018
		B	0.000	0.000	17.083	0.000	0.037
		C	0.000	0.000	7.083	0.000	0.139
L54	2.000-0.000	A	0.000	0.000	4.742	0.000	0.007
		B	0.000	0.000	6.833	0.000	0.015
		C	0.000	0.000	2.833	0.000	0.056

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	144.500-139.500	A	1.475	0.000	0.000	1.663	0.000	0.018
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.095
L2	139.500-134.500	A	1.470	0.000	0.000	1.658	0.000	0.018
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.100
L3	134.500-129.500	A	1.465	0.000	0.000	1.652	0.000	0.018
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.139
L4	129.500-124.500	A	1.459	0.000	0.000	1.646	0.000	0.017
		B		0.000	0.000	0.000	0.000	0.026
		C		0.000	0.000	0.000	0.000	0.139
L5	124.500-117.568	A	1.452	0.000	0.000	2.273	0.000	0.025
		B		0.000	0.000	0.000	0.000	0.052
		C		0.000	0.000	0.000	0.000	0.193
L6	117.568-116.409	A	1.447	0.000	0.000	0.380	0.000	0.008
		B		0.000	0.000	0.000	0.000	0.009
		C		0.000	0.000	0.000	0.000	0.032
L7	116.409-112.583	A	1.444	0.000	0.000	2.793	0.000	0.040
		B		0.000	0.000	1.545	0.000	0.043
		C		0.000	0.000	1.545	0.000	0.120
L8	112.583-112.333	A	1.441	0.000	0.000	0.339	0.000	0.004
		B		0.000	0.000	0.258	0.000	0.004
		C		0.000	0.000	0.258	0.000	0.009
L9	112.333-107.333	A	1.438	0.000	0.000	6.780	0.000	0.080
		B		0.000	0.000	5.155	0.000	0.083
		C		0.000	0.000	5.155	0.000	0.185
L10	107.333-106.920	A	1.434	0.000	0.000	0.629	0.000	0.007
		B		0.000	0.000	0.495	0.000	0.008
		C		0.000	0.000	0.495	0.000	0.016
L11	106.920-106.670	A	1.434	0.000	0.000	0.554	0.000	0.006
		B		0.000	0.000	0.473	0.000	0.006
		C		0.000	0.000	0.473	0.000	0.011
L12	106.670-103.500	A	1.432	0.000	0.000	8.578	0.000	0.090
		B		0.000	0.000	7.551	0.000	0.093
		C		0.000	0.000	7.551	0.000	0.157
L13	103.500-103.250	A	1.429	0.000	0.000	0.812	0.000	0.008
		B		0.000	0.000	0.731	0.000	0.009
		C		0.000	0.000	0.731	0.000	0.014
L14	103.250-98.500	A	1.426	0.000	0.000	15.761	0.000	0.162
		B		0.000	0.000	14.228	0.000	0.166
		C		0.000	0.000	14.228	0.000	0.262
L15	98.500-98.250	A	1.422	0.000	0.000	0.782	0.000	0.008
		B		0.000	0.000	0.701	0.000	0.008
		C		0.000	0.000	0.701	0.000	0.014
L16	98.250-97.580	A	1.421	0.000	0.000	2.095	0.000	0.022
		B		0.000	0.000	1.879	0.000	0.023
		C		0.000	0.000	1.879	0.000	0.036
L17	97.580-97.330	A	1.421	0.000	0.000	0.782	0.000	0.008
		B		0.000	0.000	0.701	0.000	0.008
		C		0.000	0.000	0.701	0.000	0.014
L18	97.330-92.330	A	1.417	0.000	0.000	11.598	0.000	0.126
		B		0.000	0.000	9.993	0.000	0.130
		C		0.000	0.000	9.993	0.000	0.232
L19	92.330-87.118	A	1.409	0.000	0.000	6.184	0.000	0.077
		B		0.000	0.000	4.520	0.000	0.081

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	4.520	0.000	0.186
L20	87.118-86.118	A	1.404	0.000	0.000	0.319	0.000	0.007
		B		0.000	0.000	0.000	0.000	0.007
		C		0.000	0.000	0.000	0.000	0.028
L21	86.118-83.000	A	1.401	0.000	0.000	3.112	0.000	0.042
		B		0.000	0.000	2.122	0.000	0.044
		C		0.000	0.000	2.122	0.000	0.108
L22	83.000-82.750	A	1.398	0.000	0.000	0.344	0.000	0.004
		B		0.000	0.000	0.265	0.000	0.004
		C		0.000	0.000	0.265	0.000	0.010
L23	82.750-77.750	A	1.393	0.000	0.000	9.947	0.000	0.111
		B		0.000	0.000	8.366	0.000	0.115
		C		0.000	0.000	8.366	0.000	0.216
L24	77.750-77.250	A	1.389	0.000	0.000	1.368	0.000	0.014
		B		0.000	0.000	1.210	0.000	0.015
		C		0.000	0.000	1.210	0.000	0.025
L25	77.250-77.000	A	1.388	0.000	0.000	0.684	0.000	0.007
		B		0.000	0.000	0.605	0.000	0.007
		C		0.000	0.000	0.605	0.000	0.012
L26	77.000-76.750	A	1.388	0.000	0.000	0.684	0.000	0.007
		B		0.000	0.000	0.605	0.000	0.007
		C		0.000	0.000	0.605	0.000	0.012
L27	76.750-71.750	A	1.383	0.000	0.000	10.223	0.000	0.107
		B		0.000	0.000	8.653	0.000	0.111
		C		0.000	0.000	8.653	0.000	0.213
L28	71.750-69.000	A	1.375	0.000	0.000	7.034	0.000	0.069
		B		0.000	0.000	6.174	0.000	0.072
		C		0.000	0.000	6.174	0.000	0.127
L29	69.000-68.750	A	1.372	0.000	0.000	0.722	0.000	0.007
		B		0.000	0.000	0.644	0.000	0.007
		C		0.000	0.000	0.644	0.000	0.012
L30	68.750-63.750	A	1.367	0.000	0.000	14.430	0.000	0.139
		B		0.000	0.000	12.876	0.000	0.143
		C		0.000	0.000	12.876	0.000	0.245
L31	63.750-60.000	A	1.358	0.000	0.000	10.805	0.000	0.103
		B		0.000	0.000	9.646	0.000	0.107
		C		0.000	0.000	13.445	0.000	0.212
L32	60.000-59.750	A	1.353	0.000	0.000	0.720	0.000	0.007
		B		0.000	0.000	0.643	0.000	0.007
		C		0.000	0.000	1.065	0.000	0.015
L33	59.750-58.500	A	1.352	0.000	0.000	3.598	0.000	0.034
		B		0.000	0.000	3.213	0.000	0.035
		C		0.000	0.000	6.676	0.000	0.088
L34	58.500-58.250	A	1.350	0.000	0.000	0.719	0.000	0.007
		B		0.000	0.000	0.643	0.000	0.007
		C		0.000	0.000	1.402	0.000	0.018
L35	58.250-58.000	A	1.349	0.000	0.000	0.719	0.000	0.007
		B		0.000	0.000	0.642	0.000	0.007
		C		0.000	0.000	1.402	0.000	0.018
L36	58.000-57.750	A	1.349	0.000	0.000	0.719	0.000	0.007
		B		0.000	0.000	0.642	0.000	0.007
		C		0.000	0.000	1.402	0.000	0.018
L37	57.750-56.750	A	1.347	0.000	0.000	2.876	0.000	0.027
		B		0.000	0.000	2.569	0.000	0.028
		C		0.000	0.000	5.608	0.000	0.072
L38	56.750-56.500	A	1.346	0.000	0.000	0.719	0.000	0.007
		B		0.000	0.000	0.642	0.000	0.007
		C		0.000	0.000	1.402	0.000	0.018
L39	56.500-51.500	A	1.339	0.000	0.000	8.891	0.000	0.091
		B		0.000	0.000	7.364	0.000	0.096
		C		0.000	0.000	22.543	0.000	0.315

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L40	51.500-42.042	A	1.320	0.000	0.000	15.596	0.000	0.160
		B		0.000	0.000	12.744	0.000	0.170
		C		0.000	0.000	41.384	0.000	0.581
L41	42.042-41.042	A	1.305	0.000	0.000	1.649	0.000	0.017
		B		0.000	0.000	1.347	0.000	0.018
		C		0.000	0.000	4.375	0.000	0.061
L42	41.042-36.042	A	1.295	0.000	0.000	8.194	0.000	0.083
		B		0.000	0.000	6.712	0.000	0.089
		C		0.000	0.000	21.801	0.000	0.303
L43	36.042-31.250	A	1.277	0.000	0.000	14.090	0.000	0.123
		B		0.000	0.000	7.665	0.000	0.092
		C		0.000	0.000	22.093	0.000	0.295
L44	31.250-31.000	A	1.268	0.000	0.000	0.825	0.000	0.007
		B		0.000	0.000	0.418	0.000	0.005
		C		0.000	0.000	1.169	0.000	0.015
L45	31.000-27.750	A	1.260	0.000	0.000	13.334	0.000	0.111
		B		0.000	0.000	11.058	0.000	0.106
		C		0.000	0.000	15.187	0.000	0.200
L46	27.750-27.500	A	1.253	0.000	0.000	1.114	0.000	0.009
		B		0.000	0.000	1.042	0.000	0.010
		C		0.000	0.000	1.167	0.000	0.015
L47	27.500-27.250	A	1.251	0.000	0.000	1.114	0.000	0.009
		B		0.000	0.000	1.042	0.000	0.010
		C		0.000	0.000	1.167	0.000	0.015
L48	27.250-27.000	A	1.250	0.000	0.000	1.114	0.000	0.009
		B		0.000	0.000	1.042	0.000	0.009
		C		0.000	0.000	0.750	0.000	0.012
L49	27.000-22.000	A	1.238	0.000	0.000	18.228	0.000	0.152
		B		0.000	0.000	20.796	0.000	0.188
		C		0.000	0.000	11.648	0.000	0.221
L50	22.000-17.000	A	1.210	0.000	0.000	15.483	0.000	0.129
		B		0.000	0.000	20.712	0.000	0.184
		C		0.000	0.000	8.293	0.000	0.196
L51	17.000-12.000	A	1.174	0.000	0.000	15.377	0.000	0.125
		B		0.000	0.000	20.606	0.000	0.179
		C		0.000	0.000	8.258	0.000	0.194
L52	12.000-7.000	A	1.126	0.000	0.000	15.231	0.000	0.119
		B		0.000	0.000	20.460	0.000	0.172
		C		0.000	0.000	8.209	0.000	0.191
L53	7.000-2.000	A	1.044	0.000	0.000	14.988	0.000	0.110
		B		0.000	0.000	20.217	0.000	0.160
		C		0.000	0.000	8.128	0.000	0.187
L54	2.000-0.000	A	0.899	0.000	0.000	5.820	0.000	0.038
		B		0.000	0.000	7.912	0.000	0.056
		C		0.000	0.000	3.193	0.000	0.072

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	144.500-139.500	-0.003	-0.301	-0.014	-1.296
L2	139.500-134.500	-0.003	-0.301	-0.014	-1.306
L3	134.500-129.500	-0.003	-0.301	-0.014	-1.314
L4	129.500-124.500	-0.003	-0.301	-0.014	-1.322
L5	124.500-117.568	-0.003	-0.301	-0.014	-1.329
L6	117.568-116.409	-0.003	-0.301	-0.014	-1.334

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L7	116.409-112.583	-0.002	-0.199	-0.010	-0.980
L8	112.583-112.333	-0.001	-0.131	-0.007	-0.700
L9	112.333-107.333	-0.001	-0.133	-0.007	-0.707
L10	107.333-106.920	-0.001	-0.123	-0.007	-0.663
L11	106.920-106.670	-0.001	-0.090	-0.005	-0.514
L12	106.670-103.500	-0.001	-0.077	-0.005	-0.446
L13	103.500-103.250	-0.001	-0.067	-0.004	-0.391
L14	103.250-98.500	-0.001	-0.066	-0.004	-0.388
L15	98.500-98.250	-0.001	-0.069	-0.004	-0.411
L16	98.250-97.580	-0.001	-0.069	-0.004	-0.412
L17	97.580-97.330	-0.001	-0.069	-0.004	-0.413
L18	97.330-92.330	-0.001	-0.090	-0.005	-0.521
L19	92.330-87.118	-0.002	-0.152	-0.008	-0.807
L20	87.118-86.118	-0.003	-0.302	-0.014	-1.348
L21	86.118-83.000	-0.002	-0.164	-0.009	-0.886
L22	83.000-82.750	-0.001	-0.131	-0.008	-0.748
L23	82.750-77.750	-0.001	-0.102	-0.006	-0.600
L24	77.750-77.250	-0.001	-0.080	-0.005	-0.485
L25	77.250-77.000	-0.001	-0.081	-0.005	-0.486
L26	77.000-76.750	-0.001	-0.081	-0.005	-0.486
L27	76.750-71.750	-0.001	-0.104	-0.006	-0.598
L28	71.750-69.000	-0.001	-0.089	-0.005	-0.519
L29	69.000-68.750	-0.001	-0.081	-0.005	-0.478
L30	68.750-63.750	-0.001	-0.082	-0.005	-0.482
L31	63.750-60.000	-1.624	1.026	-1.398	0.495
L32	60.000-59.750	-2.564	1.667	-2.221	1.074
L33	59.750-58.500	-2.368	3.116	-2.067	2.440
L34	58.500-58.250	-2.330	3.452	-2.036	2.758
L35	58.250-58.000	-2.332	3.455	-2.038	2.760
L36	58.000-57.750	-2.334	3.458	-2.040	2.763
L37	57.750-56.750	-2.341	3.467	-2.045	2.770
L38	56.750-56.500	-2.347	3.477	-2.050	2.777
L39	56.500-51.500	-3.124	4.627	-2.636	3.571
L40	51.500-42.042	-3.324	4.919	-2.786	3.774
L41	42.042-41.042	-3.345	4.949	-2.802	3.796
L42	41.042-36.042	-3.380	4.999	-2.829	3.836
L43	36.042-31.250	-3.807	1.982	-3.367	1.451
L44	31.250-31.000	-3.922	1.309	-3.507	0.897
L45	31.000-27.750	-2.702	2.600	-2.433	2.228
L46	27.750-27.500	-2.286	3.062	-2.060	2.709
L47	27.500-27.250	-2.288	3.065	-2.062	2.711
L48	27.250-27.000	-0.086	1.756	-0.124	1.536
L49	27.000-22.000	1.288	0.137	1.110	0.056
L50	22.000-17.000	2.454	-1.614	2.129	-1.509
L51	17.000-12.000	2.493	-1.640	2.159	-1.527
L52	12.000-7.000	2.531	-1.665	2.187	-1.543
L53	7.000-2.000	2.569	-1.689	2.213	-1.555
L54	2.000-0.000	2.595	-1.706	2.226	-1.551

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	18	Safety Line 3/8	139.50 - 144.50	1.0000	1.0000
L2	18	Safety Line 3/8	134.50 - 139.50	1.0000	1.0000
L3	18	Safety Line 3/8	129.50 - 134.50	1.0000	1.0000
L4	18	Safety Line 3/8	124.50 - 129.50	1.0000	1.0000
L5	18	Safety Line 3/8	117.57 - 124.50	1.0000	1.0000
L6	18	Safety Line 3/8	116.41 - 117.57	1.0000	1.0000
L7	18	Safety Line 3/8	112.58 - 116.41	1.0000	1.0000
L7	40	CCI 4.5" x 1" Plate	112.58 - 114.08	1.0000	1.0000
L7	41	CCI 4.5" x 1" Plate	112.58 - 114.08	1.0000	1.0000
L7	42	CCI 4.5" x 1" Plate	112.58 - 114.08	1.0000	1.0000
L8	18	Safety Line 3/8	112.33 - 112.58	1.0000	1.0000
L8	40	CCI 4.5" x 1" Plate	112.33 - 112.58	1.0000	1.0000
L8	41	CCI 4.5" x 1" Plate	112.33 - 112.58	1.0000	1.0000
L8	42	CCI 4.5" x 1" Plate	112.33 - 112.58	1.0000	1.0000
L9	18	Safety Line 3/8	107.33 - 112.33	1.0000	1.0000
L9	40	CCI 4.5" x 1" Plate	107.33 - 112.33	1.0000	1.0000
L9	41	CCI 4.5" x 1" Plate	107.33 - 112.33	1.0000	1.0000
L9	42	CCI 4.5" x 1" Plate	107.33 - 112.33	1.0000	1.0000
L10	18	Safety Line 3/8	106.92 - 107.33	1.0000	1.0000
L10	40	CCI 4.5" x 1" Plate	106.92 - 107.33	1.0000	1.0000
L10	41	CCI 4.5" x 1" Plate	106.92 - 107.33	1.0000	1.0000
L10	42	CCI 4.5" x 1" Plate	106.92 - 107.33	1.0000	1.0000
L10	50	CCI 4" x 0.75" Plate	106.92 - 107.00	1.0000	1.0000
L10	51	CCI 4" x 0.75" Plate	106.92 - 107.00	1.0000	1.0000
L10	52	CCI 4" x 0.75" Plate	106.92 - 107.00	1.0000	1.0000
L11	18	Safety Line 3/8	106.67 - 106.92	1.0000	1.0000
L11	40	CCI 4.5" x 1" Plate	106.67 - 106.92	1.0000	1.0000
L11	41	CCI 4.5" x 1" Plate	106.67 - 106.92	1.0000	1.0000
L11	42	CCI 4.5" x 1" Plate	106.67 - 106.92	1.0000	1.0000
L11	50	CCI 4" x 0.75" Plate	106.67 - 106.92	1.0000	1.0000
L11	51	CCI 4" x 0.75" Plate	106.67 - 106.92	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L11	52	CCI 4" x 0.75" Plate	106.67 - 106.92	1.0000	1.0000
L12	18	Safety Line 3/8	103.50 - 106.67	1.0000	1.0000
L12	32	CCI 4.5" x 1" Plate	103.50 - 105.00	1.0000	1.0000
L12	33	CCI 4.5" x 1" Plate	103.50 - 105.00	1.0000	1.0000
L12	34	CCI 4.5" x 1" Plate	103.50 - 105.00	1.0000	1.0000
L12	40	CCI 4.5" x 1" Plate	103.50 - 106.67	1.0000	1.0000
L12	41	CCI 4.5" x 1" Plate	103.50 - 106.67	1.0000	1.0000
L12	42	CCI 4.5" x 1" Plate	103.50 - 106.67	1.0000	1.0000
L12	50	CCI 4" x 0.75" Plate	103.50 - 106.67	1.0000	1.0000
L12	51	CCI 4" x 0.75" Plate	103.50 - 106.67	1.0000	1.0000
L12	52	CCI 4" x 0.75" Plate	103.50 - 106.67	1.0000	1.0000
L13	18	Safety Line 3/8	103.25 - 103.50	1.0000	1.0000
L13	32	CCI 4.5" x 1" Plate	103.25 - 103.50	1.0000	1.0000
L13	33	CCI 4.5" x 1" Plate	103.25 - 103.50	1.0000	1.0000
L13	34	CCI 4.5" x 1" Plate	103.25 - 103.50	1.0000	1.0000
L13	40	CCI 4.5" x 1" Plate	103.25 - 103.50	1.0000	1.0000
L13	41	CCI 4.5" x 1" Plate	103.25 - 103.50	1.0000	1.0000
L13	42	CCI 4.5" x 1" Plate	103.25 - 103.50	1.0000	1.0000
L13	50	CCI 4" x 0.75" Plate	103.25 - 103.50	1.0000	1.0000
L13	51	CCI 4" x 0.75" Plate	103.25 - 103.50	1.0000	1.0000
L13	52	CCI 4" x 0.75" Plate	103.25 - 103.50	1.0000	1.0000
L14	18	Safety Line 3/8	98.50 - 103.25	1.0000	1.0000
L14	20	CCI 4.5" x 1" Plate	98.50 - 100.00	1.0000	1.0000
L14	21	CCI 4.5" x 1" Plate	98.50 - 100.00	1.0000	1.0000
L14	22	CCI 4.5" x 1" Plate	98.50 - 100.00	1.0000	1.0000
L14	32	CCI 4.5" x 1" Plate	98.50 - 103.25	1.0000	1.0000
L14	33	CCI 4.5" x 1" Plate	98.50 - 103.25	1.0000	1.0000
L14	34	CCI 4.5" x 1" Plate	98.50 - 103.25	1.0000	1.0000
L14	40	CCI 4.5" x 1" Plate	99.50 - 103.25	1.0000	1.0000
L14	41	CCI 4.5" x 1" Plate	99.50 - 103.25	1.0000	1.0000
L14	42	CCI 4.5" x 1" Plate	99.50 - 103.25	1.0000	1.0000
L14	50	CCI 4" x 0.75" Plate	98.50 - 103.25	1.0000	1.0000
L14	51	CCI 4" x 0.75" Plate	98.50 - 103.25	1.0000	1.0000
L14	52	CCI 4" x 0.75" Plate	98.50 - 103.25	1.0000	1.0000
L15	18	Safety Line 3/8	98.25 - 98.50	1.0000	1.0000
L15	20	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L15	21	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L15	22	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L15	32	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L15	33	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000
L15	34	CCI 4.5" x 1" Plate	98.25 - 98.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L15	50	CCI 4" x 0.75" Plate	98.25 - 98.50	1.0000	1.0000
L15	51	CCI 4" x 0.75" Plate	98.25 - 98.50	1.0000	1.0000
L15	52	CCI 4" x 0.75" Plate	98.25 - 98.50	1.0000	1.0000
L16	18	Safety Line 3/8	97.58 - 98.25	1.0000	1.0000
L16	20	CCI 4.5" x 1" Plate	97.58 - 98.25	1.0000	1.0000
L16	21	CCI 4.5" x 1" Plate	97.58 - 98.25	1.0000	1.0000
L16	22	CCI 4.5" x 1" Plate	97.58 - 98.25	1.0000	1.0000
L16	32	CCI 4.5" x 1" Plate	97.58 - 98.25	1.0000	1.0000
L16	33	CCI 4.5" x 1" Plate	97.58 - 98.25	1.0000	1.0000
L16	34	CCI 4.5" x 1" Plate	97.58 - 98.25	1.0000	1.0000
L16	50	CCI 4" x 0.75" Plate	97.58 - 98.25	1.0000	1.0000
L16	51	CCI 4" x 0.75" Plate	97.58 - 98.25	1.0000	1.0000
L16	52	CCI 4" x 0.75" Plate	97.58 - 98.25	1.0000	1.0000
L17	18	Safety Line 3/8	97.33 - 97.58	1.0000	1.0000
L17	20	CCI 4.5" x 1" Plate	97.33 - 97.58	1.0000	1.0000
L17	21	CCI 4.5" x 1" Plate	97.33 - 97.58	1.0000	1.0000
L17	22	CCI 4.5" x 1" Plate	97.33 - 97.58	1.0000	1.0000
L17	32	CCI 4.5" x 1" Plate	97.33 - 97.58	1.0000	1.0000
L17	33	CCI 4.5" x 1" Plate	97.33 - 97.58	1.0000	1.0000
L17	34	CCI 4.5" x 1" Plate	97.33 - 97.58	1.0000	1.0000
L17	50	CCI 4" x 0.75" Plate	97.33 - 97.58	1.0000	1.0000
L17	51	CCI 4" x 0.75" Plate	97.33 - 97.58	1.0000	1.0000
L17	52	CCI 4" x 0.75" Plate	97.33 - 97.58	1.0000	1.0000
L18	18	Safety Line 3/8	92.33 - 97.33	1.0000	1.0000
L18	20	CCI 4.5" x 1" Plate	92.33 - 97.33	1.0000	1.0000
L18	21	CCI 4.5" x 1" Plate	92.33 - 97.33	1.0000	1.0000
L18	22	CCI 4.5" x 1" Plate	92.33 - 97.33	1.0000	1.0000
L18	32	CCI 4.5" x 1" Plate	92.33 - 97.33	1.0000	1.0000
L18	33	CCI 4.5" x 1" Plate	92.33 - 97.33	1.0000	1.0000
L18	34	CCI 4.5" x 1" Plate	92.33 - 97.33	1.0000	1.0000
L18	50	CCI 4" x 0.75" Plate	97.00 - 97.33	1.0000	1.0000
L18	51	CCI 4" x 0.75" Plate	97.00 - 97.33	1.0000	1.0000
L18	52	CCI 4" x 0.75" Plate	97.00 - 97.33	1.0000	1.0000
L19	18	Safety Line 3/8	87.12 - 92.33	1.0000	1.0000
L19	20	CCI 4.5" x 1" Plate	90.00 - 92.33	1.0000	1.0000
L19	21	CCI 4.5" x 1" Plate	90.00 - 92.33	1.0000	1.0000
L19	22	CCI 4.5" x 1" Plate	90.00 - 92.33	1.0000	1.0000
L19	32	CCI 4.5" x 1" Plate	90.00 - 92.33	1.0000	1.0000
L19	33	CCI 4.5" x 1" Plate	90.00 - 92.33	1.0000	1.0000
L19	34	CCI 4.5" x 1" Plate	90.00 - 92.33	1.0000	1.0000
L20	18	Safety Line 3/8	86.12 - 87.12	1.0000	1.0000
L21	18	Safety Line 3/8	83.00 - 86.12	1.0000	1.0000
L21	36	CCI 6" x 1" Plate	83.00 - 85.00	1.0000	1.0000
L21	37	CCI 6" x 1" Plate	83.00 - 85.00	1.0000	1.0000
L21	38	CCI 6" x 1" Plate	83.00 - 85.00	1.0000	1.0000
L22	18	Safety Line 3/8	82.75 - 83.00	1.0000	1.0000
L22	36	CCI 6" x 1" Plate	82.75 - 83.00	1.0000	1.0000
L22	37	CCI 6" x 1" Plate	82.75 - 83.00	1.0000	1.0000
L22	38	CCI 6" x 1" Plate	82.75 - 83.00	1.0000	1.0000
L23	18	Safety Line 3/8	77.75 - 82.75	1.0000	1.0000
L23	28	CCI 6.5" x 1.25" Plate	77.75 - 80.00	1.0000	1.0000
L23	29	CCI 6.5" x 1.25" Plate	77.75 - 80.00	1.0000	1.0000
L23	30	CCI 6.5" x 1.25" Plate	77.75 - 80.00	1.0000	1.0000
L23	36	CCI 6" x 1" Plate	77.75 - 82.75	1.0000	1.0000
L23	37	CCI 6" x 1" Plate	77.75 - 82.75	1.0000	1.0000
L23	38	CCI 6" x 1" Plate	77.75 - 82.75	1.0000	1.0000
L24	18	Safety Line 3/8	77.25 - 77.75	1.0000	1.0000
L24	28	CCI 6.5" x 1.25" Plate	77.25 - 77.75	1.0000	1.0000
L24	29	CCI 6.5" x 1.25" Plate	77.25 - 77.75	1.0000	1.0000
L24	30	CCI 6.5" x 1.25" Plate	77.25 - 77.75	1.0000	1.0000
L24	36	CCI 6" x 1" Plate	77.25 - 77.75	1.0000	1.0000
L24	37	CCI 6" x 1" Plate	77.25 - 77.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L24	38	CCI 6" x 1" Plate	77.25 - 77.75	1.0000	1.0000
L25	18	Safety Line 3/8	77.00 - 77.25	1.0000	1.0000
L25	28	CCI 6.5" x 1.25" Plate	77.00 - 77.25	1.0000	1.0000
L25	29	CCI 6.5" x 1.25" Plate	77.00 - 77.25	1.0000	1.0000
L25	30	CCI 6.5" x 1.25" Plate	77.00 - 77.25	1.0000	1.0000
L25	36	CCI 6" x 1" Plate	77.00 - 77.25	1.0000	1.0000
L25	37	CCI 6" x 1" Plate	77.00 - 77.25	1.0000	1.0000
L25	38	CCI 6" x 1" Plate	77.00 - 77.25	1.0000	1.0000
L26	18	Safety Line 3/8	76.75 - 77.00	1.0000	1.0000
L26	28	CCI 6.5" x 1.25" Plate	76.75 - 77.00	1.0000	1.0000
L26	29	CCI 6.5" x 1.25" Plate	76.75 - 77.00	1.0000	1.0000
L26	30	CCI 6.5" x 1.25" Plate	76.75 - 77.00	1.0000	1.0000
L26	36	CCI 6" x 1" Plate	76.75 - 77.00	1.0000	1.0000
L26	37	CCI 6" x 1" Plate	76.75 - 77.00	1.0000	1.0000
L26	38	CCI 6" x 1" Plate	76.75 - 77.00	1.0000	1.0000
L27	18	Safety Line 3/8	71.75 - 76.75	1.0000	1.0000
L27	28	CCI 6.5" x 1.25" Plate	71.75 - 76.75	1.0000	1.0000
L27	29	CCI 6.5" x 1.25" Plate	71.75 - 76.75	1.0000	1.0000
L27	30	CCI 6.5" x 1.25" Plate	71.75 - 76.75	1.0000	1.0000
L27	36	CCI 6" x 1" Plate	75.00 - 76.75	1.0000	1.0000
L27	37	CCI 6" x 1" Plate	75.00 - 76.75	1.0000	1.0000
L27	38	CCI 6" x 1" Plate	75.00 - 76.75	1.0000	1.0000
L28	18	Safety Line 3/8	69.00 - 71.75	1.0000	1.0000
L28	28	CCI 6.5" x 1.25" Plate	69.00 - 71.75	1.0000	1.0000
L28	29	CCI 6.5" x 1.25" Plate	69.00 - 71.75	1.0000	1.0000
L28	30	CCI 6.5" x 1.25" Plate	69.00 - 71.75	1.0000	1.0000
L28	56	CCI 6" x 1" Plate	69.00 - 71.00	1.0000	1.0000
L28	57	CCI 6" x 1" Plate	69.00 - 71.00	1.0000	1.0000
L28	58	CCI 6" x 1" Plate	69.00 - 71.00	1.0000	1.0000
L29	18	Safety Line 3/8	68.75 - 69.00	1.0000	1.0000
L29	28	CCI 6.5" x 1.25" Plate	68.75 - 69.00	1.0000	1.0000
L29	29	CCI 6.5" x 1.25" Plate	68.75 - 69.00	1.0000	1.0000
L29	30	CCI 6.5" x 1.25" Plate	68.75 - 69.00	1.0000	1.0000
L29	56	CCI 6" x 1" Plate	68.75 - 69.00	1.0000	1.0000
L29	57	CCI 6" x 1" Plate	68.75 - 69.00	1.0000	1.0000
L29	58	CCI 6" x 1" Plate	68.75 - 69.00	1.0000	1.0000
L30	18	Safety Line 3/8	63.75 - 68.75	1.0000	1.0000
L30	28	CCI 6.5" x 1.25" Plate	63.75 - 68.75	1.0000	1.0000
L30	29	CCI 6.5" x 1.25" Plate	63.75 - 68.75	1.0000	1.0000
L30	30	CCI 6.5" x 1.25" Plate	63.75 - 68.75	1.0000	1.0000
L30	56	CCI 6" x 1" Plate	63.75 - 68.75	1.0000	1.0000
L30	57	CCI 6" x 1" Plate	63.75 - 68.75	1.0000	1.0000
L30	58	CCI 6" x 1" Plate	63.75 - 68.75	1.0000	1.0000
L31	18	Safety Line 3/8	60.00 - 63.75	1.0000	1.0000
L31	28	CCI 6.5" x 1.25" Plate	60.00 - 63.75	1.0000	1.0000
L31	29	CCI 6.5" x 1.25" Plate	60.00 - 63.75	1.0000	1.0000
L31	30	CCI 6.5" x 1.25" Plate	60.00 - 63.75	1.0000	1.0000
L31	48	CCI 8.5" x 1.25" Plate	60.00 - 62.25	1.0000	1.0000
L31	56	CCI 6" x 1" Plate	60.00 - 63.75	1.0000	1.0000
L31	57	CCI 6" x 1" Plate	60.00 - 63.75	1.0000	1.0000
L31	58	CCI 6" x 1" Plate	60.00 - 63.75	1.0000	1.0000
L32	18	Safety Line 3/8	59.75 - 60.00	1.0000	1.0000
L32	28	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L32	29	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L32	30	CCI 6.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L32	48	CCI 8.5" x 1.25" Plate	59.75 - 60.00	1.0000	1.0000
L32	56	CCI 6" x 1" Plate	59.75 - 60.00	1.0000	1.0000
L32	57	CCI 6" x 1" Plate	59.75 - 60.00	1.0000	1.0000
L32	58	CCI 6" x 1" Plate	59.75 - 60.00	1.0000	1.0000
L33	18	Safety Line 3/8	58.50 - 59.75	1.0000	1.0000
L33	28	CCI 6.5" x 1.25" Plate	58.50 - 59.75	1.0000	1.0000
L33	29	CCI 6.5" x 1.25" Plate	58.50 - 59.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L33	30	CCI 6.5" x 1.25" Plate	58.50 - 59.75	1.0000	1.0000
L33	48	CCI 8.5" x 1.25" Plate	58.50 - 59.75	1.0000	1.0000
L33	54	CCI 6.5" x 1.25" Plate	58.50 - 59.50	1.0000	1.0000
L33	56	CCI 6" x 1" Plate	58.50 - 59.75	1.0000	1.0000
L33	57	CCI 6" x 1" Plate	58.50 - 59.75	1.0000	1.0000
L33	58	CCI 6" x 1" Plate	58.50 - 59.75	1.0000	1.0000
L34	18	Safety Line 3/8	58.25 - 58.50	1.0000	1.0000
L34	28	CCI 6.5" x 1.25" Plate	58.25 - 58.50	1.0000	1.0000
L34	29	CCI 6.5" x 1.25" Plate	58.25 - 58.50	1.0000	1.0000
L34	30	CCI 6.5" x 1.25" Plate	58.25 - 58.50	1.0000	1.0000
L34	48	CCI 8.5" x 1.25" Plate	58.25 - 58.50	1.0000	1.0000
L34	54	CCI 6.5" x 1.25" Plate	58.25 - 58.50	1.0000	1.0000
L34	56	CCI 6" x 1" Plate	58.25 - 58.50	1.0000	1.0000
L34	57	CCI 6" x 1" Plate	58.25 - 58.50	1.0000	1.0000
L34	58	CCI 6" x 1" Plate	58.25 - 58.50	1.0000	1.0000
L35	18	Safety Line 3/8	58.00 - 58.25	1.0000	1.0000
L35	28	CCI 6.5" x 1.25" Plate	58.00 - 58.25	1.0000	1.0000
L35	29	CCI 6.5" x 1.25" Plate	58.00 - 58.25	1.0000	1.0000
L35	30	CCI 6.5" x 1.25" Plate	58.00 - 58.25	1.0000	1.0000
L35	48	CCI 8.5" x 1.25" Plate	58.00 - 58.25	1.0000	1.0000
L35	54	CCI 6.5" x 1.25" Plate	58.00 - 58.25	1.0000	1.0000
L35	56	CCI 6" x 1" Plate	58.00 - 58.25	1.0000	1.0000
L35	57	CCI 6" x 1" Plate	58.00 - 58.25	1.0000	1.0000
L35	58	CCI 6" x 1" Plate	58.00 - 58.25	1.0000	1.0000
L36	18	Safety Line 3/8	57.75 - 58.00	1.0000	1.0000
L36	28	CCI 6.5" x 1.25" Plate	57.75 - 58.00	1.0000	1.0000
L36	29	CCI 6.5" x 1.25" Plate	57.75 - 58.00	1.0000	1.0000
L36	30	CCI 6.5" x 1.25" Plate	57.75 - 58.00	1.0000	1.0000
L36	48	CCI 8.5" x 1.25" Plate	57.75 - 58.00	1.0000	1.0000
L36	54	CCI 6.5" x 1.25" Plate	57.75 - 58.00	1.0000	1.0000
L36	56	CCI 6" x 1" Plate	57.75 - 58.00	1.0000	1.0000
L36	57	CCI 6" x 1" Plate	57.75 - 58.00	1.0000	1.0000
L36	58	CCI 6" x 1" Plate	57.75 - 58.00	1.0000	1.0000
L37	18	Safety Line 3/8	56.75 - 57.75	1.0000	1.0000
L37	28	CCI 6.5" x 1.25" Plate	56.75 - 57.75	1.0000	1.0000
L37	29	CCI 6.5" x 1.25" Plate	56.75 - 57.75	1.0000	1.0000
L37	30	CCI 6.5" x 1.25" Plate	56.75 - 57.75	1.0000	1.0000
L37	48	CCI 8.5" x 1.25" Plate	56.75 - 57.75	1.0000	1.0000
L37	54	CCI 6.5" x 1.25" Plate	56.75 - 57.75	1.0000	1.0000
L37	56	CCI 6" x 1" Plate	56.75 - 57.75	1.0000	1.0000
L37	57	CCI 6" x 1" Plate	56.75 - 57.75	1.0000	1.0000
L37	58	CCI 6" x 1" Plate	56.75 - 57.75	1.0000	1.0000
L38	18	Safety Line 3/8	56.50 - 56.75	1.0000	1.0000
L38	28	CCI 6.5" x 1.25" Plate	56.50 - 56.75	1.0000	1.0000
L38	29	CCI 6.5" x 1.25" Plate	56.50 - 56.75	1.0000	1.0000
L38	30	CCI 6.5" x 1.25" Plate	56.50 - 56.75	1.0000	1.0000
L38	48	CCI 8.5" x 1.25" Plate	56.50 - 56.75	1.0000	1.0000
L38	54	CCI 6.5" x 1.25" Plate	56.50 - 56.75	1.0000	1.0000
L38	56	CCI 6" x 1" Plate	56.50 - 56.75	1.0000	1.0000
L38	57	CCI 6" x 1" Plate	56.50 - 56.75	1.0000	1.0000
L38	58	CCI 6" x 1" Plate	56.50 - 56.75	1.0000	1.0000
L39	18	Safety Line 3/8	51.50 - 56.50	1.0000	1.0000
L39	28	CCI 6.5" x 1.25" Plate	51.50 - 56.50	1.0000	1.0000
L39	29	CCI 6.5" x 1.25" Plate	51.50 - 56.50	1.0000	1.0000
L39	30	CCI 6.5" x 1.25" Plate	51.50 - 56.50	1.0000	1.0000
L39	48	CCI 8.5" x 1.25" Plate	51.50 - 56.50	1.0000	1.0000
L39	54	CCI 6.5" x 1.25" Plate	51.50 - 56.50	1.0000	1.0000
L39	56	CCI 6" x 1" Plate	56.00 - 56.50	1.0000	1.0000
L39	57	CCI 6" x 1" Plate	56.00 - 56.50	1.0000	1.0000
L39	58	CCI 6" x 1" Plate	56.00 - 56.50	1.0000	1.0000
L40	18	Safety Line 3/8	42.04 - 51.50	1.0000	1.0000
L40	28	CCI 6.5" x 1.25" Plate	42.04 - 51.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L40	29	CCI 6.5" x 1.25" Plate	42.04 - 51.50	1.0000	1.0000
L40	30	CCI 6.5" x 1.25" Plate	42.04 - 51.50	1.0000	1.0000
L40	48	CCI 8.5" x 1.25" Plate	42.04 - 51.50	1.0000	1.0000
L40	54	CCI 6.5" x 1.25" Plate	42.04 - 51.50	1.0000	1.0000
L41	18	Safety Line 3/8	41.04 - 42.04	1.0000	1.0000
L41	28	CCI 6.5" x 1.25" Plate	41.04 - 42.04	1.0000	1.0000
L41	29	CCI 6.5" x 1.25" Plate	41.04 - 42.04	1.0000	1.0000
L41	30	CCI 6.5" x 1.25" Plate	41.04 - 42.04	1.0000	1.0000
L41	48	CCI 8.5" x 1.25" Plate	41.04 - 42.04	1.0000	1.0000
L41	54	CCI 6.5" x 1.25" Plate	41.04 - 42.04	1.0000	1.0000
L42	18	Safety Line 3/8	36.04 - 41.04	1.0000	1.0000
L42	28	CCI 6.5" x 1.25" Plate	36.04 - 41.04	1.0000	1.0000
L42	29	CCI 6.5" x 1.25" Plate	36.04 - 41.04	1.0000	1.0000
L42	30	CCI 6.5" x 1.25" Plate	36.04 - 41.04	1.0000	1.0000
L42	48	CCI 8.5" x 1.25" Plate	36.04 - 41.04	1.0000	1.0000
L42	54	CCI 6.5" x 1.25" Plate	36.04 - 41.04	1.0000	1.0000
L43	18	Safety Line 3/8	31.25 - 36.04	1.0000	1.0000
L43	24	CCI 8.5" x 1.25" Plate	31.25 - 35.00	1.0000	1.0000
L43	25	CCI 8.5" x 1.25" Plate	31.25 - 35.00	1.0000	1.0000
L43	26	CCI 8.5" x 1.25" Plate	31.25 - 35.00	1.0000	1.0000
L43	28	CCI 6.5" x 1.25" Plate	31.25 - 36.04	1.0000	1.0000
L43	29	CCI 6.5" x 1.25" Plate	35.00 - 36.04	1.0000	1.0000
L43	30	CCI 6.5" x 1.25" Plate	35.00 - 36.04	1.0000	1.0000
L43	48	CCI 8.5" x 1.25" Plate	31.25 - 36.04	1.0000	1.0000
L43	54	CCI 6.5" x 1.25" Plate	31.25 - 36.04	1.0000	1.0000
L44	18	Safety Line 3/8	31.00 - 31.25	1.0000	1.0000
L44	24	CCI 8.5" x 1.25" Plate	31.00 - 31.25	1.0000	1.0000
L44	25	CCI 8.5" x 1.25" Plate	31.00 - 31.25	1.0000	1.0000
L44	26	CCI 8.5" x 1.25" Plate	31.00 - 31.25	1.0000	1.0000
L44	28	CCI 6.5" x 1.25" Plate	31.00 - 31.25	1.0000	1.0000
L44	48	CCI 8.5" x 1.25" Plate	31.00 - 31.25	1.0000	1.0000
L44	54	CCI 6.5" x 1.25" Plate	31.00 - 31.25	1.0000	1.0000
L45	18	Safety Line 3/8	27.75 - 31.00	1.0000	1.0000
L45	24	CCI 8.5" x 1.25" Plate	27.75 - 31.00	1.0000	1.0000
L45	25	CCI 8.5" x 1.25" Plate	27.75 - 31.00	1.0000	1.0000
L45	26	CCI 8.5" x 1.25" Plate	27.75 - 31.00	1.0000	1.0000
L45	28	CCI 6.5" x 1.25" Plate	27.75 - 31.00	1.0000	1.0000
L45	44	CCI 5.5" x 1.25" Plate	27.75 - 30.00	1.0000	1.0000
L45	45	CCI 5.5" x 1.25" Plate	27.75 - 30.00	1.0000	1.0000
L45	46	CCI 6.5" x 1.25" Plate	27.75 - 30.00	1.0000	1.0000
L45	48	CCI 8.5" x 1.25" Plate	27.75 - 31.00	1.0000	1.0000
L45	54	CCI 6.5" x 1.25" Plate	27.75 - 31.00	1.0000	1.0000
L46	18	Safety Line 3/8	27.50 - 27.75	1.0000	1.0000
L46	24	CCI 8.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	25	CCI 8.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	26	CCI 8.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	28	CCI 6.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	44	CCI 5.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	45	CCI 5.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	46	CCI 6.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	48	CCI 8.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L46	54	CCI 6.5" x 1.25" Plate	27.50 - 27.75	1.0000	1.0000
L47	18	Safety Line 3/8	27.25 - 27.50	1.0000	1.0000
L47	24	CCI 8.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	25	CCI 8.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	26	CCI 8.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	28	CCI 6.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	44	CCI 5.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	45	CCI 5.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	46	CCI 6.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	48	CCI 8.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000
L47	54	CCI 6.5" x 1.25" Plate	27.25 - 27.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L48	18	Safety Line 3/8	27.00 - 27.25	1.0000	1.0000
L48	24	CCI 8.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	25	CCI 8.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	26	CCI 8.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	28	CCI 6.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	44	CCI 5.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	45	CCI 5.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	46	CCI 6.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L48	54	CCI 6.5" x 1.25" Plate	27.00 - 27.25	1.0000	1.0000
L49	18	Safety Line 3/8	22.00 - 27.00	1.0000	1.0000
L49	24	CCI 8.5" x 1.25" Plate	22.00 - 27.00	1.0000	1.0000
L49	25	CCI 8.5" x 1.25" Plate	22.00 - 27.00	1.0000	1.0000
L49	26	CCI 8.5" x 1.25" Plate	22.00 - 27.00	1.0000	1.0000
L49	28	CCI 6.5" x 1.25" Plate	25.00 - 27.00	1.0000	1.0000
L49	44	CCI 5.5" x 1.25" Plate	22.00 - 27.00	1.0000	1.0000
L49	45	CCI 5.5" x 1.25" Plate	22.00 - 27.00	1.0000	1.0000
L49	46	CCI 6.5" x 1.25" Plate	22.00 - 27.00	1.0000	1.0000
L49	54	CCI 6.5" x 1.25" Plate	24.50 - 27.00	1.0000	1.0000
L50	18	Safety Line 3/8	17.00 - 22.00	1.0000	1.0000
L50	24	CCI 8.5" x 1.25" Plate	17.00 - 22.00	1.0000	1.0000
L50	25	CCI 8.5" x 1.25" Plate	17.00 - 22.00	1.0000	1.0000
L50	26	CCI 8.5" x 1.25" Plate	17.00 - 22.00	1.0000	1.0000
L50	44	CCI 5.5" x 1.25" Plate	17.00 - 22.00	1.0000	1.0000
L50	45	CCI 5.5" x 1.25" Plate	17.00 - 22.00	1.0000	1.0000
L50	46	CCI 6.5" x 1.25" Plate	17.00 - 22.00	1.0000	1.0000
L51	18	Safety Line 3/8	12.00 - 17.00	1.0000	1.0000
L51	24	CCI 8.5" x 1.25" Plate	12.00 - 17.00	1.0000	1.0000
L51	25	CCI 8.5" x 1.25" Plate	12.00 - 17.00	1.0000	1.0000
L51	26	CCI 8.5" x 1.25" Plate	12.00 - 17.00	1.0000	1.0000
L51	44	CCI 5.5" x 1.25" Plate	12.00 - 17.00	1.0000	1.0000
L51	45	CCI 5.5" x 1.25" Plate	12.00 - 17.00	1.0000	1.0000
L51	46	CCI 6.5" x 1.25" Plate	12.00 - 17.00	1.0000	1.0000
L52	18	Safety Line 3/8	7.00 - 12.00	1.0000	1.0000
L52	24	CCI 8.5" x 1.25" Plate	7.00 - 12.00	1.0000	1.0000
L52	25	CCI 8.5" x 1.25" Plate	7.00 - 12.00	1.0000	1.0000
L52	26	CCI 8.5" x 1.25" Plate	7.00 - 12.00	1.0000	1.0000
L52	44	CCI 5.5" x 1.25" Plate	7.00 - 12.00	1.0000	1.0000
L52	45	CCI 5.5" x 1.25" Plate	7.00 - 12.00	1.0000	1.0000
L52	46	CCI 6.5" x 1.25" Plate	7.00 - 12.00	1.0000	1.0000
L53	18	Safety Line 3/8	2.00 - 7.00	1.0000	1.0000
L53	24	CCI 8.5" x 1.25" Plate	2.00 - 7.00	1.0000	1.0000
L53	25	CCI 8.5" x 1.25" Plate	2.00 - 7.00	1.0000	1.0000
L53	26	CCI 8.5" x 1.25" Plate	2.00 - 7.00	1.0000	1.0000
L53	44	CCI 5.5" x 1.25" Plate	2.00 - 7.00	1.0000	1.0000
L53	45	CCI 5.5" x 1.25" Plate	2.00 - 7.00	1.0000	1.0000
L53	46	CCI 6.5" x 1.25" Plate	2.00 - 7.00	1.0000	1.0000
L54	18	Safety Line 3/8	0.00 - 2.00	1.0000	1.0000
L54	24	CCI 8.5" x 1.25" Plate	0.00 - 2.00	1.0000	1.0000
L54	25	CCI 8.5" x 1.25" Plate	0.00 - 2.00	1.0000	1.0000
L54	26	CCI 8.5" x 1.25" Plate	0.00 - 2.00	1.0000	1.0000
L54	44	CCI 5.5" x 1.25" Plate	0.00 - 2.00	1.0000	1.0000
L54	45	CCI 5.5" x 1.25" Plate	0.00 - 2.00	1.0000	1.0000
L54	46	CCI 6.5" x 1.25" Plate	0.00 - 2.00	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L7	40	CCI 4.5" x 1" Plate	112.58 - 114.08	Auto	0.0263
L7	41	CCI 4.5" x 1" Plate	112.58 - 114.08	Auto	0.0263
L7	42	CCI 4.5" x 1" Plate	112.58 - 114.08	Auto	0.0263
L8	40	CCI 4.5" x 1" Plate	112.33 - 112.58	Auto	0.0190
L8	41	CCI 4.5" x 1" Plate	112.33 - 112.58	Auto	0.0190
L8	42	CCI 4.5" x 1" Plate	112.33 - 112.58	Auto	0.0190
L9	40	CCI 4.5" x 1" Plate	107.33 - 112.33	Auto	0.0039
L9	41	CCI 4.5" x 1" Plate	107.33 - 112.33	Auto	0.0039
L9	42	CCI 4.5" x 1" Plate	107.33 - 112.33	Auto	0.0039
L10	40	CCI 4.5" x 1" Plate	106.92 - 107.33	Auto	0.0000
L10	41	CCI 4.5" x 1" Plate	106.92 - 107.33	Auto	0.0000
L10	42	CCI 4.5" x 1" Plate	106.92 - 107.33	Auto	0.0000
L10	50	CCI 4" x 0.75" Plate	106.92 - 107.00	Auto	0.0000
L10	51	CCI 4" x 0.75" Plate	106.92 - 107.00	Auto	0.0000
L10	52	CCI 4" x 0.75" Plate	106.92 - 107.00	Auto	0.0000
L11	40	CCI 4.5" x 1" Plate	106.67 - 106.92	Auto	0.0841
L11	41	CCI 4.5" x 1" Plate	106.67 - 106.92	Auto	0.0841
L11	42	CCI 4.5" x 1" Plate	106.67 - 106.92	Auto	0.0841
L11	50	CCI 4" x 0.75" Plate	106.67 - 106.92	Auto	0.0000
L11	51	CCI 4" x 0.75" Plate	106.67 - 106.92	Auto	0.0000
L11	52	CCI 4" x 0.75" Plate	106.67 - 106.92	Auto	0.0000
L12	32	CCI 4.5" x 1" Plate	103.50 - 105.00	Auto	0.0580
L12	33	CCI 4.5" x 1" Plate	103.50 - 105.00	Auto	0.0580
L12	34	CCI 4.5" x 1" Plate	103.50 - 105.00	Auto	0.0580
L12	40	CCI 4.5" x 1" Plate	103.50 - 106.67	Auto	0.0650
L12	41	CCI 4.5" x 1" Plate	103.50 - 106.67	Auto	0.0650
L12	42	CCI 4.5" x 1" Plate	103.50 - 106.67	Auto	0.0650
L12	50	CCI 4" x 0.75" Plate	103.50 - 106.67	Auto	0.0000
L12	51	CCI 4" x 0.75" Plate	103.50 - 106.67	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L12	52	CCI 4" x 0.75" Plate	103.50 - 106.67	Auto	0.0000
L13	32	CCI 4.5" x 1" Plate	103.25 - 103.50	Auto	0.0507
L13	33	CCI 4.5" x 1" Plate	103.25 - 103.50	Auto	0.0507
L13	34	CCI 4.5" x 1" Plate	103.25 - 103.50	Auto	0.0507
L13	40	CCI 4.5" x 1" Plate	103.25 - 103.50	Auto	0.0507
L13	41	CCI 4.5" x 1" Plate	103.25 - 103.50	Auto	0.0507
L13	42	CCI 4.5" x 1" Plate	103.25 - 103.50	Auto	0.0507
L13	50	CCI 4" x 0.75" Plate	103.25 - 103.50	Auto	0.0000
L13	51	CCI 4" x 0.75" Plate	103.25 - 103.50	Auto	0.0000
L13	52	CCI 4" x 0.75" Plate	103.25 - 103.50	Auto	0.0000
L14	20	CCI 4.5" x 1" Plate	98.50 - 100.00	Auto	0.0113
L14	21	CCI 4.5" x 1" Plate	98.50 - 100.00	Auto	0.0113
L14	22	CCI 4.5" x 1" Plate	98.50 - 100.00	Auto	0.0113
L14	32	CCI 4.5" x 1" Plate	98.50 - 103.25	Auto	0.0249
L14	33	CCI 4.5" x 1" Plate	98.50 - 103.25	Auto	0.0249
L14	34	CCI 4.5" x 1" Plate	98.50 - 103.25	Auto	0.0249
L14	40	CCI 4.5" x 1" Plate	99.50 - 103.25	Auto	0.0291
L14	41	CCI 4.5" x 1" Plate	99.50 - 103.25	Auto	0.0291
L14	42	CCI 4.5" x 1" Plate	99.50 - 103.25	Auto	0.0291
L14	50	CCI 4" x 0.75" Plate	98.50 - 103.25	Auto	0.0000
L14	51	CCI 4" x 0.75" Plate	98.50 - 103.25	Auto	0.0000
L14	52	CCI 4" x 0.75" Plate	98.50 - 103.25	Auto	0.0000
L15	20	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0675
L15	21	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0675
L15	22	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0675
L15	32	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0675
L15	33	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0675
L15	34	CCI 4.5" x 1" Plate	98.25 - 98.50	Auto	0.0675
L15	50	CCI 4" x 0.75" Plate	98.25 - 98.50	Auto	0.0000
L15	51	CCI 4" x 0.75" Plate	98.25 - 98.50	Auto	0.0000
L15	52	CCI 4" x 0.75" Plate	98.25 - 98.50	Auto	0.0000
L16	20	CCI 4.5" x 1" Plate	97.58 - 98.25	Auto	0.0637
L16	21	CCI 4.5" x 1" Plate	97.58 - 98.25	Auto	0.0637
L16	22	CCI 4.5" x 1" Plate	97.58 - 98.25	Auto	0.0637
L16	32	CCI 4.5" x 1" Plate	97.58 - 98.25	Auto	0.0637
L16	33	CCI 4.5" x 1" Plate	97.58 - 98.25	Auto	0.0637
L16	34	CCI 4.5" x 1" Plate	97.58 - 98.25	Auto	0.0637
L16	50	CCI 4" x 0.75" Plate	97.58 - 98.25	Auto	0.0000
L16	51	CCI 4" x 0.75" Plate	97.58 - 98.25	Auto	0.0000
L16	52	CCI 4" x 0.75" Plate	97.58 - 98.25	Auto	0.0000
L17	20	CCI 4.5" x 1" Plate	97.33 - 97.58	Auto	0.0159
L17	21	CCI 4.5" x 1" Plate	97.33 - 97.58	Auto	0.0159
L17	22	CCI 4.5" x 1" Plate	97.33 - 97.58	Auto	0.0159
L17	32	CCI 4.5" x 1" Plate	97.33 - 97.58	Auto	0.0159
L17	33	CCI 4.5" x 1" Plate	97.33 - 97.58	Auto	0.0159
L17	34	CCI 4.5" x 1" Plate	97.33 - 97.58	Auto	0.0159
L17	50	CCI 4" x 0.75" Plate	97.33 - 97.58	Auto	0.0000
L17	51	CCI 4" x 0.75" Plate	97.33 - 97.58	Auto	0.0000
L17	52	CCI 4" x 0.75" Plate	97.33 - 97.58	Auto	0.0000
L18	20	CCI 4.5" x 1" Plate	92.33 - 97.33	Auto	0.0012
L18	21	CCI 4.5" x 1" Plate	92.33 - 97.33	Auto	0.0012

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L18	22	CCI 4.5" x 1" Plate	92.33 - 97.33	Auto	0.0012
L18	32	CCI 4.5" x 1" Plate	92.33 - 97.33	Auto	0.0012
L18	33	CCI 4.5" x 1" Plate	92.33 - 97.33	Auto	0.0012
L18	34	CCI 4.5" x 1" Plate	92.33 - 97.33	Auto	0.0012
L18	50	CCI 4" x 0.75" Plate	97.00 - 97.33	Auto	0.0000
L18	51	CCI 4" x 0.75" Plate	97.00 - 97.33	Auto	0.0000
L18	52	CCI 4" x 0.75" Plate	97.00 - 97.33	Auto	0.0000
L19	20	CCI 4.5" x 1" Plate	90.00 - 92.33	Auto	0.0000
L19	21	CCI 4.5" x 1" Plate	90.00 - 92.33	Auto	0.0000
L19	22	CCI 4.5" x 1" Plate	90.00 - 92.33	Auto	0.0000
L19	32	CCI 4.5" x 1" Plate	90.00 - 92.33	Auto	0.0000
L19	33	CCI 4.5" x 1" Plate	90.00 - 92.33	Auto	0.0000
L19	34	CCI 4.5" x 1" Plate	90.00 - 92.33	Auto	0.0000
L21	36	CCI 6" x 1" Plate	83.00 - 85.00	Auto	0.1368
L21	37	CCI 6" x 1" Plate	83.00 - 85.00	Auto	0.1368
L21	38	CCI 6" x 1" Plate	83.00 - 85.00	Auto	0.1368
L22	36	CCI 6" x 1" Plate	82.75 - 83.00	Auto	0.1297
L22	37	CCI 6" x 1" Plate	82.75 - 83.00	Auto	0.1297
L22	38	CCI 6" x 1" Plate	82.75 - 83.00	Auto	0.1297
L23	28	CCI 6.5" x 1.25" Plate	77.75 - 80.00	Auto	0.1733
L23	29	CCI 6.5" x 1.25" Plate	77.75 - 80.00	Auto	0.1733
L23	30	CCI 6.5" x 1.25" Plate	77.75 - 80.00	Auto	0.1733
L23	36	CCI 6" x 1" Plate	77.75 - 82.75	Auto	0.1131
L23	37	CCI 6" x 1" Plate	77.75 - 82.75	Auto	0.1131
L23	38	CCI 6" x 1" Plate	77.75 - 82.75	Auto	0.1131
L24	28	CCI 6.5" x 1.25" Plate	77.25 - 77.75	Auto	0.1653
L24	29	CCI 6.5" x 1.25" Plate	77.25 - 77.75	Auto	0.1653
L24	30	CCI 6.5" x 1.25" Plate	77.25 - 77.75	Auto	0.1653
L24	36	CCI 6" x 1" Plate	77.25 - 77.75	Auto	0.0957
L24	37	CCI 6" x 1" Plate	77.25 - 77.75	Auto	0.0957
L24	38	CCI 6" x 1" Plate	77.25 - 77.75	Auto	0.0957
L25	28	CCI 6.5" x 1.25" Plate	77.00 - 77.25	Auto	0.2850
L25	29	CCI 6.5" x 1.25" Plate	77.00 - 77.25	Auto	0.2850
L25	30	CCI 6.5" x 1.25" Plate	77.00 - 77.25	Auto	0.2850
L25	36	CCI 6" x 1" Plate	77.00 - 77.25	Auto	0.2254
L25	37	CCI 6" x 1" Plate	77.00 - 77.25	Auto	0.2254
L25	38	CCI 6" x 1" Plate	77.00 - 77.25	Auto	0.2254
L26	28	CCI 6.5" x 1.25" Plate	76.75 - 77.00	Auto	0.2327
L26	29	CCI 6.5" x 1.25" Plate	76.75 - 77.00	Auto	0.2327
L26	30	CCI 6.5" x 1.25" Plate	76.75 - 77.00	Auto	0.2327
L26	36	CCI 6" x 1" Plate	76.75 - 77.00	Auto	0.1688
L26	37	CCI 6" x 1" Plate	76.75 - 77.00	Auto	0.1688
L26	38	CCI 6" x 1" Plate	76.75 - 77.00	Auto	0.1688
L27	28	CCI 6.5" x 1.25" Plate	71.75 - 76.75	Auto	0.2140
L27	29	CCI 6.5" x 1.25" Plate	71.75 - 76.75	Auto	0.2140
L27	30	CCI 6.5" x 1.25" Plate	71.75 - 76.75	Auto	0.2140
L27	36	CCI 6" x 1" Plate	75.00 - 76.75	Auto	0.1588
L27	37	CCI 6" x 1" Plate	75.00 - 76.75	Auto	0.1588
L27	38	CCI 6" x 1" Plate	75.00 - 76.75	Auto	0.1588
L28	28	CCI 6.5" x 1.25" Plate	69.00 - 71.75	Auto	0.1914
L28	29	CCI 6.5" x 1.25" Plate	69.00 - 71.75	Auto	0.1914
L28	30	CCI 6.5" x 1.25" Plate	69.00 - 71.75	Auto	0.1914
L28	56	CCI 6" x 1" Plate	69.00 - 71.00	Auto	0.1217
L28	57	CCI 6" x 1" Plate	69.00 - 71.00	Auto	0.1217
L28	58	CCI 6" x 1" Plate	69.00 - 71.00	Auto	0.1217
L29	28	CCI 6.5" x 1.25" Plate	68.75 - 69.00	Auto	0.2301
L29	29	CCI 6.5" x 1.25" Plate	68.75 - 69.00	Auto	0.2301
L29	30	CCI 6.5" x 1.25" Plate	68.75 - 69.00	Auto	0.2301
L29	56	CCI 6" x 1" Plate	68.75 - 69.00	Auto	0.1659
L29	57	CCI 6" x 1" Plate	68.75 - 69.00	Auto	0.1659
L29	58	CCI 6" x 1" Plate	68.75 - 69.00	Auto	0.1659

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L30	28	CCI 6.5" x 1.25" Plate	63.75 - 68.75	Auto	0.2114
L30	29	CCI 6.5" x 1.25" Plate	63.75 - 68.75	Auto	0.2114
L30	30	CCI 6.5" x 1.25" Plate	63.75 - 68.75	Auto	0.2114
L30	56	CCI 6" x 1" Plate	63.75 - 68.75	Auto	0.1457
L30	57	CCI 6" x 1" Plate	63.75 - 68.75	Auto	0.1457
L30	58	CCI 6" x 1" Plate	63.75 - 68.75	Auto	0.1457
L31	28	CCI 6.5" x 1.25" Plate	60.00 - 63.75	Auto	0.1825
L31	29	CCI 6.5" x 1.25" Plate	60.00 - 63.75	Auto	0.1825
L31	30	CCI 6.5" x 1.25" Plate	60.00 - 63.75	Auto	0.1825
L31	48	CCI 8.5" x 1.25" Plate	60.00 - 62.25	Auto	0.3715
L31	56	CCI 6" x 1" Plate	60.00 - 63.75	Auto	0.1143
L31	57	CCI 6" x 1" Plate	60.00 - 63.75	Auto	0.1143
L31	58	CCI 6" x 1" Plate	60.00 - 63.75	Auto	0.1143
L32	28	CCI 6.5" x 1.25" Plate	59.75 - 60.00	Auto	0.1708
L32	29	CCI 6.5" x 1.25" Plate	59.75 - 60.00	Auto	0.1708
L32	30	CCI 6.5" x 1.25" Plate	59.75 - 60.00	Auto	0.1708
L32	48	CCI 8.5" x 1.25" Plate	59.75 - 60.00	Auto	0.3659
L32	56	CCI 6" x 1" Plate	59.75 - 60.00	Auto	0.1017
L32	57	CCI 6" x 1" Plate	59.75 - 60.00	Auto	0.1017
L32	58	CCI 6" x 1" Plate	59.75 - 60.00	Auto	0.1017
L33	28	CCI 6.5" x 1.25" Plate	58.50 - 59.75	Auto	0.1664
L33	29	CCI 6.5" x 1.25" Plate	58.50 - 59.75	Auto	0.1664
L33	30	CCI 6.5" x 1.25" Plate	58.50 - 59.75	Auto	0.1664
L33	48	CCI 8.5" x 1.25" Plate	58.50 - 59.75	Auto	0.3626
L33	54	CCI 6.5" x 1.25" Plate	58.50 - 59.50	Auto	0.1657
L33	56	CCI 6" x 1" Plate	58.50 - 59.75	Auto	0.0970
L33	57	CCI 6" x 1" Plate	58.50 - 59.75	Auto	0.0970
L33	58	CCI 6" x 1" Plate	58.50 - 59.75	Auto	0.0970
L34	28	CCI 6.5" x 1.25" Plate	58.25 - 58.50	Auto	0.1621
L34	29	CCI 6.5" x 1.25" Plate	58.25 - 58.50	Auto	0.1621
L34	30	CCI 6.5" x 1.25" Plate	58.25 - 58.50	Auto	0.1621
L34	48	CCI 8.5" x 1.25" Plate	58.25 - 58.50	Auto	0.3592
L34	54	CCI 6.5" x 1.25" Plate	58.25 - 58.50	Auto	0.1621
L34	56	CCI 6" x 1" Plate	58.25 - 58.50	Auto	0.0922
L34	57	CCI 6" x 1" Plate	58.25 - 58.50	Auto	0.0922
L34	58	CCI 6" x 1" Plate	58.25 - 58.50	Auto	0.0922
L35	28	CCI 6.5" x 1.25" Plate	58.00 - 58.25	Auto	0.1606
L35	29	CCI 6.5" x 1.25" Plate	58.00 - 58.25	Auto	0.1606
L35	30	CCI 6.5" x 1.25" Plate	58.00 - 58.25	Auto	0.1606
L35	48	CCI 8.5" x 1.25" Plate	58.00 - 58.25	Auto	0.3581
L35	54	CCI 6.5" x 1.25" Plate	58.00 - 58.25	Auto	0.1606
L35	56	CCI 6" x 1" Plate	58.00 - 58.25	Auto	0.0906
L35	57	CCI 6" x 1" Plate	58.00 - 58.25	Auto	0.0906
L35	58	CCI 6" x 1" Plate	58.00 - 58.25	Auto	0.0906
L36	28	CCI 6.5" x 1.25" Plate	57.75 - 58.00	Auto	0.1151
L36	29	CCI 6.5" x 1.25" Plate	57.75 - 58.00	Auto	0.1151
L36	30	CCI 6.5" x 1.25" Plate	57.75 - 58.00	Auto	0.1151
L36	48	CCI 8.5" x 1.25" Plate	57.75 - 58.00	Auto	0.3233
L36	54	CCI 6.5" x 1.25" Plate	57.75 - 58.00	Auto	0.1151
L36	56	CCI 6" x 1" Plate	57.75 - 58.00	Auto	0.0414
L36	57	CCI 6" x 1" Plate	57.75 - 58.00	Auto	0.0414
L36	58	CCI 6" x 1" Plate	57.75 - 58.00	Auto	0.0414
L37	28	CCI 6.5" x 1.25" Plate	56.75 - 57.75	Auto	0.1115
L37	29	CCI 6.5" x 1.25" Plate	56.75 - 57.75	Auto	0.1115
L37	30	CCI 6.5" x 1.25" Plate	56.75 - 57.75	Auto	0.1115
L37	48	CCI 8.5" x 1.25" Plate	56.75 - 57.75	Auto	0.3206
L37	54	CCI 6.5" x 1.25" Plate	56.75 - 57.75	Auto	0.1115
L37	56	CCI 6" x 1" Plate	56.75 - 57.75	Auto	0.0374
L37	57	CCI 6" x 1" Plate	56.75 - 57.75	Auto	0.0374
L37	58	CCI 6" x 1" Plate	56.75 - 57.75	Auto	0.0374
L38	28	CCI 6.5" x 1.25" Plate	56.50 - 56.75	Auto	0.1417

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L38	29	CCI 6.5" x 1.25" Plate	56.50 - 56.75	Auto	0.1417
L38	30	CCI 6.5" x 1.25" Plate	56.50 - 56.75	Auto	0.1417
L38	48	CCI 8.5" x 1.25" Plate	56.50 - 56.75	Auto	0.3436
L38	54	CCI 6.5" x 1.25" Plate	56.50 - 56.75	Auto	0.1417
L38	56	CCI 6" x 1" Plate	56.50 - 56.75	Auto	0.0702
L38	57	CCI 6" x 1" Plate	56.50 - 56.75	Auto	0.0702
L38	58	CCI 6" x 1" Plate	56.50 - 56.75	Auto	0.0702
L39	28	CCI 6.5" x 1.25" Plate	51.50 - 56.50	Auto	0.1230
L39	29	CCI 6.5" x 1.25" Plate	51.50 - 56.50	Auto	0.1230
L39	30	CCI 6.5" x 1.25" Plate	51.50 - 56.50	Auto	0.1230
L39	48	CCI 8.5" x 1.25" Plate	51.50 - 56.50	Auto	0.3293
L39	54	CCI 6.5" x 1.25" Plate	51.50 - 56.50	Auto	0.1230
L39	56	CCI 6" x 1" Plate	56.00 - 56.50	Auto	0.0641
L39	57	CCI 6" x 1" Plate	56.00 - 56.50	Auto	0.0641
L39	58	CCI 6" x 1" Plate	56.00 - 56.50	Auto	0.0641
L40	28	CCI 6.5" x 1.25" Plate	42.04 - 51.50	Auto	0.0774
L40	29	CCI 6.5" x 1.25" Plate	42.04 - 51.50	Auto	0.0774
L40	30	CCI 6.5" x 1.25" Plate	42.04 - 51.50	Auto	0.0774
L40	48	CCI 8.5" x 1.25" Plate	42.04 - 51.50	Auto	0.2945
L40	54	CCI 6.5" x 1.25" Plate	42.04 - 51.50	Auto	0.0774
L41	28	CCI 6.5" x 1.25" Plate	41.04 - 42.04	Auto	0.0876
L41	29	CCI 6.5" x 1.25" Plate	41.04 - 42.04	Auto	0.0876
L41	30	CCI 6.5" x 1.25" Plate	41.04 - 42.04	Auto	0.0876
L41	48	CCI 8.5" x 1.25" Plate	41.04 - 42.04	Auto	0.3023
L41	54	CCI 6.5" x 1.25" Plate	41.04 - 42.04	Auto	0.0876
L42	28	CCI 6.5" x 1.25" Plate	36.04 - 41.04	Auto	0.0702
L42	29	CCI 6.5" x 1.25" Plate	36.04 - 41.04	Auto	0.0702
L42	30	CCI 6.5" x 1.25" Plate	36.04 - 41.04	Auto	0.0702
L42	48	CCI 8.5" x 1.25" Plate	36.04 - 41.04	Auto	0.2890
L42	54	CCI 6.5" x 1.25" Plate	36.04 - 41.04	Auto	0.0702
L43	24	CCI 8.5" x 1.25" Plate	31.25 - 35.00	Auto	0.2597
L43	25	CCI 8.5" x 1.25" Plate	31.25 - 35.00	Auto	0.2597
L43	26	CCI 8.5" x 1.25" Plate	31.25 - 35.00	Auto	0.2597
L43	28	CCI 6.5" x 1.25" Plate	31.25 - 36.04	Auto	0.0349
L43	29	CCI 6.5" x 1.25" Plate	35.00 - 36.04	Auto	0.0458
L43	30	CCI 6.5" x 1.25" Plate	35.00 - 36.04	Auto	0.0458
L43	48	CCI 8.5" x 1.25" Plate	31.25 - 36.04	Auto	0.2620
L43	54	CCI 6.5" x 1.25" Plate	31.25 - 36.04	Auto	0.0349
L44	24	CCI 8.5" x 1.25" Plate	31.00 - 31.25	Auto	0.2275
L44	25	CCI 8.5" x 1.25" Plate	31.00 - 31.25	Auto	0.2275
L44	26	CCI 8.5" x 1.25" Plate	31.00 - 31.25	Auto	0.2275
L44	28	CCI 6.5" x 1.25" Plate	31.00 - 31.25	Auto	0.0000
L44	48	CCI 8.5" x 1.25" Plate	31.00 - 31.25	Auto	0.2275
L44	54	CCI 6.5" x 1.25" Plate	31.00 - 31.25	Auto	0.0000
L45	24	CCI 8.5" x 1.25" Plate	27.75 - 31.00	Auto	0.2197
L45	25	CCI 8.5" x 1.25" Plate	27.75 - 31.00	Auto	0.2197
L45	26	CCI 8.5" x 1.25" Plate	27.75 - 31.00	Auto	0.2197
L45	28	CCI 6.5" x 1.25" Plate	27.75 - 31.00	Auto	0.0000
L45	44	CCI 5.5" x 1.25" Plate	27.75 - 30.00	Auto	0.0000
L45	45	CCI 5.5" x 1.25" Plate	27.75 - 30.00	Auto	0.0000
L45	46	CCI 6.5" x 1.25" Plate	27.75 - 30.00	Auto	0.0000
L45	48	CCI 8.5" x 1.25" Plate	27.75 - 31.00	Auto	0.2197
L45	54	CCI 6.5" x 1.25" Plate	27.75 - 31.00	Auto	0.0000
L46	24	CCI 8.5" x 1.25" Plate	27.50 - 27.75	Auto	0.2119
L46	25	CCI 8.5" x 1.25" Plate	27.50 - 27.75	Auto	0.2119
L46	26	CCI 8.5" x 1.25" Plate	27.50 - 27.75	Auto	0.2119
L46	28	CCI 6.5" x 1.25" Plate	27.50 - 27.75	Auto	0.0000
L46	44	CCI 5.5" x 1.25" Plate	27.50 - 27.75	Auto	0.0000
L46	45	CCI 5.5" x 1.25" Plate	27.50 - 27.75	Auto	0.0000
L46	46	CCI 6.5" x 1.25" Plate	27.50 - 27.75	Auto	0.0000
L46	48	CCI 8.5" x 1.25" Plate	27.50 - 27.75	Auto	0.2119

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L46	54	CCI 6.5" x 1.25" Plate	27.50 - 27.75	Auto	0.0000
L47	24	CCI 8.5" x 1.25" Plate	27.25 - 27.50	Auto	0.2108
L47	25	CCI 8.5" x 1.25" Plate	27.25 - 27.50	Auto	0.2108
L47	26	CCI 8.5" x 1.25" Plate	27.25 - 27.50	Auto	0.2108
L47	28	CCI 6.5" x 1.25" Plate	27.25 - 27.50	Auto	0.0000
L47	44	CCI 5.5" x 1.25" Plate	27.25 - 27.50	Auto	0.0000
L47	45	CCI 5.5" x 1.25" Plate	27.25 - 27.50	Auto	0.0000
L47	46	CCI 6.5" x 1.25" Plate	27.25 - 27.50	Auto	0.0000
L47	48	CCI 8.5" x 1.25" Plate	27.25 - 27.50	Auto	0.2108
L47	54	CCI 6.5" x 1.25" Plate	27.25 - 27.50	Auto	0.0000
L48	24	CCI 8.5" x 1.25" Plate	27.00 - 27.25	Auto	0.2252
L48	25	CCI 8.5" x 1.25" Plate	27.00 - 27.25	Auto	0.2252
L48	26	CCI 8.5" x 1.25" Plate	27.00 - 27.25	Auto	0.2252
L48	28	CCI 6.5" x 1.25" Plate	27.00 - 27.25	Auto	0.0000
L48	44	CCI 5.5" x 1.25" Plate	27.00 - 27.25	Auto	0.0000
L48	45	CCI 5.5" x 1.25" Plate	27.00 - 27.25	Auto	0.0000
L48	46	CCI 6.5" x 1.25" Plate	27.00 - 27.25	Auto	0.0000
L48	54	CCI 6.5" x 1.25" Plate	27.00 - 27.25	Auto	0.0000
L49	24	CCI 8.5" x 1.25" Plate	22.00 - 27.00	Auto	0.2109
L49	25	CCI 8.5" x 1.25" Plate	22.00 - 27.00	Auto	0.2109
L49	26	CCI 8.5" x 1.25" Plate	22.00 - 27.00	Auto	0.2109
L49	28	CCI 6.5" x 1.25" Plate	25.00 - 27.00	Auto	0.0000
L49	44	CCI 5.5" x 1.25" Plate	22.00 - 27.00	Auto	0.0000
L49	45	CCI 5.5" x 1.25" Plate	22.00 - 27.00	Auto	0.0000
L49	46	CCI 6.5" x 1.25" Plate	22.00 - 27.00	Auto	0.0000
L49	54	CCI 6.5" x 1.25" Plate	24.50 - 27.00	Auto	0.0000
L50	24	CCI 8.5" x 1.25" Plate	17.00 - 22.00	Auto	0.1887
L50	25	CCI 8.5" x 1.25" Plate	17.00 - 22.00	Auto	0.1887
L50	26	CCI 8.5" x 1.25" Plate	17.00 - 22.00	Auto	0.1887
L50	44	CCI 5.5" x 1.25" Plate	17.00 - 22.00	Auto	0.0000
L50	45	CCI 5.5" x 1.25" Plate	17.00 - 22.00	Auto	0.0000
L50	46	CCI 6.5" x 1.25" Plate	17.00 - 22.00	Auto	0.0000
L51	24	CCI 8.5" x 1.25" Plate	12.00 - 17.00	Auto	0.1664
L51	25	CCI 8.5" x 1.25" Plate	12.00 - 17.00	Auto	0.1664
L51	26	CCI 8.5" x 1.25" Plate	12.00 - 17.00	Auto	0.1664
L51	44	CCI 5.5" x 1.25" Plate	12.00 - 17.00	Auto	0.0000
L51	45	CCI 5.5" x 1.25" Plate	12.00 - 17.00	Auto	0.0000
L51	46	CCI 6.5" x 1.25" Plate	12.00 - 17.00	Auto	0.0000
L52	24	CCI 8.5" x 1.25" Plate	7.00 - 12.00	Auto	0.1442
L52	25	CCI 8.5" x 1.25" Plate	7.00 - 12.00	Auto	0.1442
L52	26	CCI 8.5" x 1.25" Plate	7.00 - 12.00	Auto	0.1442
L52	44	CCI 5.5" x 1.25" Plate	7.00 - 12.00	Auto	0.0000
L52	45	CCI 5.5" x 1.25" Plate	7.00 - 12.00	Auto	0.0000
L52	46	CCI 6.5" x 1.25" Plate	7.00 - 12.00	Auto	0.0000
L53	24	CCI 8.5" x 1.25" Plate	2.00 - 7.00	Auto	0.1193
L53	25	CCI 8.5" x 1.25" Plate	2.00 - 7.00	Auto	0.1193
L53	26	CCI 8.5" x 1.25" Plate	2.00 - 7.00	Auto	0.1193
L53	44	CCI 5.5" x 1.25" Plate	2.00 - 7.00	Auto	0.0000
L53	45	CCI 5.5" x 1.25" Plate	2.00 - 7.00	Auto	0.0000
L53	46	CCI 6.5" x 1.25" Plate	2.00 - 7.00	Auto	0.0000
L54	24	CCI 8.5" x 1.25" Plate	0.00 - 2.00	Auto	0.1037
L54	25	CCI 8.5" x 1.25" Plate	0.00 - 2.00	Auto	0.1037
L54	26	CCI 8.5" x 1.25" Plate	0.00 - 2.00	Auto	0.1037
L54	44	CCI 5.5" x 1.25" Plate	0.00 - 2.00	Auto	0.0000
L54	45	CCI 5.5" x 1.25" Plate	0.00 - 2.00	Auto	0.0000
L54	46	CCI 6.5" x 1.25" Plate	0.00 - 2.00	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 5/8" x 5'	C	None		0.000	147.000	No Ice	0.313	0.313	0.006
						1/2" Ice	0.826	0.826	0.010
						1" Ice	1.322	1.322	0.016
						2" Ice	1.957	1.957	0.040
Strobe	C	None		0.000	149.500	No Ice	4.500	3.000	0.020
						1/2" Ice	4.770	3.237	0.058
						1" Ice	5.048	3.481	0.100
						2" Ice	5.626	3.993	0.198
5' x 2" Pipe Mount	C	None		0.000	147.000	No Ice	1.188	1.188	0.018
						1/2" Ice	1.496	1.496	0.027
						1" Ice	1.807	1.807	0.040
						2" Ice	2.458	2.458	0.076
Top Hat	C	None		0.000	146.000	No Ice	3.000	3.000	0.081
						1/2" Ice	3.480	3.480	0.111
						1" Ice	3.960	3.960	0.141
						2" Ice	4.920	4.920	0.201
*									
7770.00 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice	5.746	4.254	0.055
						1/2" Ice	6.179	5.014	0.103
						1" Ice	6.607	5.711	0.157
						2" Ice	7.488	7.155	0.287
7770.00 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice	5.746	4.254	0.055
						1/2" Ice	6.179	5.014	0.103
						1" Ice	6.607	5.711	0.157
						2" Ice	7.488	7.155	0.287
7770.00 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice	5.746	4.254	0.055
						1/2" Ice	6.179	5.014	0.103
						1" Ice	6.607	5.711	0.157
						2" Ice	7.488	7.155	0.287
840370799 w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice	12.880	7.800	0.168
						1/2" Ice	13.850	8.710	0.258
						1" Ice	14.840	9.640	0.361
						2" Ice	16.860	11.560	0.610
840370799 w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice	12.880	7.800	0.168
						1/2" Ice	13.850	8.710	0.258
						1" Ice	14.840	9.640	0.361
						2" Ice	16.860	11.560	0.610
840370799 w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice	12.880	7.800	0.168
						1/2" Ice	13.850	8.710	0.258
						1" Ice	14.840	9.640	0.361
						2" Ice	16.860	11.560	0.610
SBNH-1D6565C w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice	5.560	4.470	0.085
						1/2" Ice	6.070	4.970	0.167
						1" Ice	6.590	5.470	0.262
						2" Ice	7.650	6.520	0.495
AM-X-CD-17-65-00T-RET w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice	6.090	4.310	0.092
						1/2" Ice	6.660	4.860	0.170
						1" Ice	7.240	5.420	0.261
						2" Ice	8.430	6.570	0.484
AM-X-CD-17-65-00T-RET w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice	6.090	4.310	0.092
						1/2" Ice	6.660	4.860	0.170
						1" Ice	7.240	5.420	0.261

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	8.430	6.570	0.484
(2) RRUS 11	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.784 2.992 3.207 3.658	1.187 1.334 1.490 1.833	0.048 0.068 0.092 0.150
(2) RRUS 11	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.784 2.992 3.207 3.658	1.187 1.334 1.490 1.833	0.048 0.068 0.092 0.150
(2) RRUS 11	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.784 2.992 3.207 3.658	1.187 1.334 1.490 1.833	0.048 0.068 0.092 0.150
RRUS 32	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.857 3.083 3.316 3.805	1.777 1.968 2.166 2.583	0.055 0.077 0.103 0.165
RRUS 32	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.857 3.083 3.316 3.805	1.777 1.968 2.166 2.583	0.055 0.077 0.103 0.165
RRUS 32	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.857 3.083 3.316 3.805	1.777 1.968 2.166 2.583	0.055 0.077 0.103 0.165
RRUS 32 B2	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.731 2.953 3.182 3.663	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157
RRUS 32 B2	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.731 2.953 3.182 3.663	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157
RRUS 32 B2	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.731 2.953 3.182 3.663	1.668 1.855 2.049 2.458	0.053 0.074 0.098 0.157
RRUS 4478 B5	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.843 2.012 2.190 2.566	1.059 1.197 1.342 1.656	0.060 0.076 0.094 0.140
RRUS 4478 B5	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.843 2.012 2.190 2.566	1.059 1.197 1.342 1.656	0.060 0.076 0.094 0.140
RRUS 4478 B5	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.843 2.012 2.190 2.566	1.059 1.197 1.342 1.656	0.060 0.076 0.094 0.140
RRUS 4478 B14	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.843 2.012 2.190 2.566	1.059 1.197 1.342 1.656	0.060 0.076 0.094 0.140
RRUS 4478 B14	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.843 2.012 2.190 2.566	1.059 1.197 1.342 1.656	0.060 0.076 0.094 0.140

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RRUS 4478 B14	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.843 2.012 2.190 2.566	1.059 1.197 1.342 1.656	0.060 0.076 0.094 0.140
(2) 7020.00	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.102 0.147 0.199 0.326	0.175 0.239 0.311 0.476	0.002 0.005 0.009 0.022
(2) 7020.00	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.102 0.147 0.199 0.326	0.175 0.239 0.311 0.476	0.002 0.005 0.009 0.022
(2) 7020.00	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.102 0.147 0.199 0.326	0.175 0.239 0.311 0.476	0.002 0.005 0.009 0.022
(2) LGP21401	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.104 1.239 1.381 1.688	0.207 0.274 0.348 0.521	0.014 0.021 0.030 0.055
(2) LGP21401	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.104 1.239 1.381 1.688	0.207 0.274 0.348 0.521	0.014 0.021 0.030 0.055
(2) LGP21401	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.104 1.239 1.381 1.688	0.207 0.274 0.348 0.521	0.014 0.021 0.030 0.055
(2) DBCT108F1V92-1	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.637 0.740 0.850 1.093	0.604 0.705 0.813 1.052	0.029 0.036 0.045 0.069
(2) DBCT108F1V92-1	B	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.637 0.740 0.850 1.093	0.604 0.705 0.813 1.052	0.029 0.036 0.045 0.069
(2) DBCT108F1V92-1	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.637 0.740 0.850 1.093	0.604 0.705 0.813 1.052	0.029 0.036 0.045 0.069
DC6-48-60-18-8F	A	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.212 1.892 2.105 2.570	1.212 1.892 2.105 2.570	0.033 0.055 0.080 0.138
DC6-48-60-0-8F	B	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.917 1.458 1.643 2.042	0.917 1.458 1.643 2.042	0.033 0.051 0.071 0.119
DC6-48-60-18-8F	C	From Leg	4.000 0.000 -1.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.212 1.892 2.105 2.570	1.212 1.892 2.105 2.570	0.033 0.055 0.080 0.138
8' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.900 2.728 3.401 4.396	1.900 2.728 3.401 4.396	0.029 0.044 0.063 0.119
8' x 2" Pipe Mount	B	From Leg	4.000	0.000	147.000	No Ice	1.900	1.900	0.029

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000 0.000			1/2" Ice 1" Ice 2" Ice	2.728 3.401 4.396	2.728 3.401 4.396	0.044 0.063 0.119
8' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.900 2.728 3.401 4.396	1.900 2.728 3.401 4.396	0.029 0.044 0.063 0.119
Platform Mount [LP 602-1_KCKR]	C	None		0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	42.300 49.040 55.870 69.850	42.300 49.040 55.870 69.850	1.618 2.384 3.267 5.398
Transition Ladder	A	From Leg	3.000 0.000 -2.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.000 8.000 10.000 14.000	6.000 8.000 10.000 14.000	0.160 0.240 0.320 0.480
Miscellaneous [NA 507-1]	C	None		0.000	146.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.560 6.390 8.180 11.660	4.560 6.390 8.180 11.660	0.245 0.311 0.402 0.657
*									
(2) MX06FRO660-02 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.540 7.060 7.600 8.700	5.540 6.050 6.570 7.640	0.082 0.164 0.256 0.475
(2) MX06FRO660-02 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.540 7.060 7.600 8.700	5.540 6.050 6.570 7.640	0.082 0.164 0.256 0.475
(2) MX06FRO660-02 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.540 7.060 7.600 8.700	5.540 6.050 6.570 7.640	0.082 0.164 0.256 0.475
Sub6 Antenna - VZS01 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.915 5.264 5.623 6.371	2.687 3.151 3.631 4.639	0.101 0.141 0.186 0.294
Sub6 Antenna - VZS01 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.915 5.264 5.623 6.371	2.687 3.151 3.631 4.639	0.101 0.141 0.186 0.294
Sub6 Antenna - VZS01 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.915 5.264 5.623 6.371	2.687 3.151 3.631 4.639	0.101 0.141 0.186 0.294
RFV01U-D1A	A	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.875 2.045 2.223 2.601	1.250 1.393 1.543 1.865	0.084 0.103 0.124 0.175
RFV01U-D1A	B	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.875 2.045 2.223 2.601	1.250 1.393 1.543 1.865	0.084 0.103 0.124 0.175
RFV01U-D1A	C	From Leg	4.000 0.000 0.000	0.000	135.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.875 2.045 2.223 2.601	1.250 1.393 1.543 1.865	0.084 0.103 0.124 0.175
RFV01U-D2A	A	From Leg	4.000	0.000	135.000	No Ice	1.875	1.013	0.070

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1/2" Ice	2.045	1.145	0.087
			0.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
RFV01U-D2A	B	From Leg	4.000	0.000	135.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			0.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
RFV01U-D2A	C	From Leg	4.000	0.000	135.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			0.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
RVZDC-6627-PF-48	A	From Leg	4.000	0.000	135.000	No Ice	3.792	2.514	0.032
			0.000			1/2" Ice	4.044	2.727	0.063
			0.000			1" Ice	4.303	2.947	0.099
						2" Ice	4.844	3.417	0.181
RVZDC-6627-PF-48	B	From Leg	4.000	0.000	135.000	No Ice	3.792	2.514	0.032
			0.000			1/2" Ice	4.044	2.727	0.063
			0.000			1" Ice	4.303	2.947	0.099
						2" Ice	4.844	3.417	0.181
LNX-6512DS-VTM w/ Mount Pipe	A	From Leg	4.000	0.000	135.000	No Ice	2.670	2.150	0.047
			0.000			1/2" Ice	2.940	2.420	0.091
			0.000			1" Ice	3.220	2.690	0.143
						2" Ice	3.810	3.250	0.272
LNX-6512DS-VTM w/ Mount Pipe	B	From Leg	4.000	0.000	135.000	No Ice	2.670	2.150	0.047
			0.000			1/2" Ice	2.940	2.420	0.091
			0.000			1" Ice	3.220	2.690	0.143
						2" Ice	3.810	3.250	0.272
LNX-6512DS-VTM w/ Mount Pipe	C	From Leg	4.000	0.000	135.000	No Ice	2.670	2.150	0.047
			0.000			1/2" Ice	2.940	2.420	0.091
			0.000			1" Ice	3.220	2.690	0.143
						2" Ice	3.810	3.250	0.272
Platform Mount [LP 601-1]	C	None		0.000	135.000	No Ice	28.500	28.500	1.122
						1/2" Ice	31.690	31.690	1.676
						1" Ice	34.870	34.870	2.282
						2" Ice	41.230	41.230	3.653
Transition Ladder	A	From Leg	3.000	0.000	135.000	No Ice	6.000	6.000	0.160
			0.000			1/2" Ice	8.000	8.000	0.240
			-2.000			1" Ice	10.000	10.000	0.320
						2" Ice	14.000	14.000	0.480
*									
AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	A	From Leg	4.000	0.000	128.000	No Ice	3.760	3.150	0.194
			0.000			1/2" Ice	4.120	3.490	0.252
			0.000			1" Ice	4.480	3.840	0.320
						2" Ice	5.240	4.580	0.485
AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	B	From Leg	4.000	0.000	128.000	No Ice	3.760	3.150	0.194
			0.000			1/2" Ice	4.120	3.490	0.252
			0.000			1" Ice	4.480	3.840	0.320
						2" Ice	5.240	4.580	0.485
AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	C	From Leg	4.000	0.000	128.000	No Ice	3.760	3.150	0.194
			0.000			1/2" Ice	4.120	3.490	0.252
			0.000			1" Ice	4.480	3.840	0.320
						2" Ice	5.240	4.580	0.485
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Leg	4.000	0.000	128.000	No Ice	14.690	6.870	0.183
			0.000			1/2" Ice	15.460	7.550	0.311
			0.000			1" Ice	16.230	8.250	0.453
						2" Ice	17.820	9.670	0.782
APXVAALL24_43-U-NA20	B	From Leg	4.000	0.000	128.000	No Ice	14.690	6.870	0.183

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
_TMO w/ Mount Pipe			0.000 0.000			1/2" Ice 1" Ice 2" Ice	15.460 16.230 17.820	7.550 8.250 9.670	0.311 0.453 0.782
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.183 0.311 0.453 0.782
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.190 5.590 6.020 6.900	2.710 3.040 3.380 4.120	0.128 0.174 0.227 0.354
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.190 5.590 6.020 6.900	2.710 3.040 3.380 4.120	0.128 0.174 0.227 0.354
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.190 5.590 6.020 6.900	2.710 3.040 3.380 4.120	0.128 0.174 0.227 0.354
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.970 2.147 2.331 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.970 2.147 2.331 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.970 2.147 2.331 2.721	1.587 1.749 1.918 2.280	0.073 0.093 0.116 0.170
RADIO 4415 B25_TMO	A	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.856 2.027 2.204 2.582	0.870 0.997 1.134 1.432	0.047 0.062 0.079 0.122
RADIO 4415 B25_TMO	B	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.856 2.027 2.204 2.582	0.870 0.997 1.134 1.432	0.047 0.062 0.079 0.122
RADIO 4415 B25_TMO	C	From Leg	4.000 0.000 0.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.856 2.027 2.204 2.582	0.870 0.997 1.134 1.432	0.047 0.062 0.079 0.122
Platform Mount [LP 601-1]	C	None		0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	28.500 31.690 34.870 41.230	28.500 31.690 34.870 41.230	1.122 1.676 2.282 3.653
Transition Ladder	A	From Leg	3.000 0.000 -2.000	0.000	128.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.000 8.000 10.000 14.000	6.000 8.000 10.000 14.000	0.160 0.240 0.320 0.480
Miscellaneous [NA 507-1]	C	None		0.000	130.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.560 6.390 8.180 11.660	4.560 6.390 8.180 11.660	0.245 0.311 0.402 0.657
* APXVSPP18-C-A20 w/	A	From Leg	4.000	0.000	118.000	No Ice	4.600	4.010	0.095

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Mount Pipe			0.000 0.000			1/2" Ice 1" Ice 2" Ice	5.050 5.500 6.440	4.450 4.890 5.820	0.160 0.235 0.419
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.600 5.050 5.500 6.440	4.010 4.450 4.890 5.820	0.095 0.160 0.235 0.419
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.600 5.050 5.500 6.440	4.010 4.450 4.890 5.820	0.095 0.160 0.235 0.419
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
TD-RRH8X20-25	A	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.045 4.298 4.557 5.098	1.535 1.714 1.901 2.295	0.070 0.097 0.128 0.201
TD-RRH8X20-25	B	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.045 4.298 4.557 5.098	1.535 1.714 1.901 2.295	0.070 0.097 0.128 0.201
TD-RRH8X20-25	C	From Leg	4.000 0.000 0.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.045 4.298 4.557 5.098	1.535 1.714 1.901 2.295	0.070 0.097 0.128 0.201
Platform Mount [LP 601-1]	C	None		0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	28.500 31.690 34.870 41.230	28.500 31.690 34.870 41.230	1.122 1.676 2.282 3.653
Transition Ladder	A	From Leg	3.000 0.000 -2.000	0.000	118.000	No Ice 1/2" Ice 1" Ice 2" Ice	6.000 8.000 10.000 14.000	6.000 8.000 10.000 14.000	0.160 0.240 0.320 0.480
*									
TME-PCS 1900MHz 4x45W-65MHz	A	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.322 2.527 2.739 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
TME-PCS 1900MHz 4x45W-65MHz	B	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.322 2.527 2.739 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
TME-PCS 1900MHz 4x45W-65MHz	C	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.322 2.527 2.739 3.185	2.238 2.441 2.651 3.093	0.060 0.083 0.110 0.173
TME-800MHz 2X50W RRH	A	From Leg	4.000	0.000	108.000	No Ice	2.058	1.932	0.064

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
W/FILTER			0.000			1/2" Ice	2.240	2.109	0.086
			-2.000			1" Ice	2.429	2.293	0.111
						2" Ice	2.829	2.684	0.172
TME-800MHz 2X50W RRH W/FILTER	B	From Leg	4.000 0.000	0.000	108.000	No Ice 1/2" Ice	2.058 2.240	1.932 2.109	0.064 0.086
			-2.000			1" Ice	2.429	2.293	0.111
						2" Ice	2.829	2.684	0.172
TME-800MHz 2X50W RRH W/FILTER	C	From Leg	4.000 0.000	0.000	108.000	No Ice 1/2" Ice	2.058 2.240	1.932 2.109	0.064 0.086
			-2.000			1" Ice	2.429	2.293	0.111
						2" Ice	2.829	2.684	0.172
Side Arm Mount [SO 102-3]	C	None		0.000	108.000	No Ice	3.600	3.600	0.075
						1/2" Ice	4.180	4.180	0.105
						1" Ice	4.750	4.750	0.135
						2" Ice	5.900	5.900	0.195
*									
6' x 2" Mount Pipe	A	From Leg	4.000 0.000	0.000	103.000	No Ice 1/2" Ice	1.425 1.925	1.425 1.925	0.022 0.033
			0.000			1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
6' x 2" Mount Pipe	B	From Leg	4.000 0.000	0.000	103.000	No Ice 1/2" Ice	1.425 1.925	1.425 1.925	0.022 0.033
			0.000			1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
6' x 2" Mount Pipe	C	From Leg	4.000 0.000	0.000	103.000	No Ice 1/2" Ice	1.425 1.925	1.425 1.925	0.022 0.033
			0.000			1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
8' x 2" Pipe Mount	A	From Leg	4.000 0.000	0.000	103.000	No Ice 1/2" Ice	1.900 2.728	1.900 2.728	0.029 0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
8' x 2" Pipe Mount	B	From Leg	4.000 0.000	0.000	103.000	No Ice 1/2" Ice	1.900 2.728	1.900 2.728	0.029 0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
8' x 2" Pipe Mount	C	From Leg	4.000 0.000	0.000	103.000	No Ice 1/2" Ice	1.900 2.728	1.900 2.728	0.029 0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
Platform Mount [LP 601-1]	C	None		0.000	103.000	No Ice	28.500	28.500	1.122
						1/2" Ice	31.690	31.690	1.676
						1" Ice	34.870	34.870	2.282
						2" Ice	41.230	41.230	3.653
Transition Ladder	A	From Leg	3.000 0.000	0.000	103.000	No Ice 1/2" Ice	6.000 8.000	6.000 8.000	0.160 0.240
			-2.000			1" Ice	10.000	10.000	0.320
						2" Ice	14.000	14.000	0.480
*									

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	144.5 - 139.5	Pole	Max Tension	26	0.000	0.000	-0.000
			Max. Compression	26	-13.784	0.069	1.796

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	20	-4.201	83.785	0.580
			Max. My	2	-4.203	-0.013	84.209
			Max. Vy	8	12.180	-83.783	0.574
			Max. Vx	2	-12.138	-0.013	84.209
			Max. Torque	8			1.639
L2	139.5 - 134.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-22.853	-0.539	3.925
			Max. Mx	8	-7.105	-148.273	1.252
			Max. My	2	-7.102	-0.096	149.189
			Max. Vy	8	18.651	-148.273	1.252
			Max. Vx	2	-18.641	-0.096	149.189
			Max. Torque	8			3.349
L3	134.5 - 129.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-24.120	-0.529	4.040
			Max. Mx	8	-7.843	-242.845	1.201
			Max. My	2	-7.840	0.041	243.713
			Max. Vy	8	19.439	-242.845	1.201
			Max. Vx	2	-19.429	0.041	243.713
			Max. Torque	8			3.349
L4	129.5 - 124.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-33.383	-0.519	5.883
			Max. Mx	8	-11.536	-360.379	1.748
			Max. My	2	-11.532	0.180	361.965
			Max. Vy	8	25.596	-360.379	1.748
			Max. Vx	2	-25.587	0.180	361.965
			Max. Torque	9			4.772
L5	124.5 - 117.568	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-33.870	-0.512	5.962
			Max. Mx	8	-11.946	-439.901	1.716
			Max. My	2	-11.942	0.267	441.459
			Max. Vy	8	25.874	-439.901	1.716
			Max. Vx	2	-25.864	0.267	441.459
			Max. Torque	9			4.768
L6	117.568 - 116.409	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-41.085	-0.500	7.832
			Max. Mx	8	-14.889	-576.015	2.286
			Max. My	2	-14.885	0.407	578.314
			Max. Vy	8	30.267	-576.015	2.286
			Max. Vx	2	-30.257	0.407	578.314
			Max. Torque	8			6.267
L7	116.409 - 112.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-41.846	-0.490	7.930
			Max. Mx	8	-15.539	-692.414	2.240
			Max. My	2	-15.536	0.516	694.679
			Max. Vy	8	30.613	-692.414	2.240
			Max. Vx	2	-30.603	0.516	694.679
			Max. Torque	8			6.266
L8	112.583 - 112.333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-41.900	-0.489	7.936
			Max. Mx	8	-15.609	-700.066	2.235
			Max. My	2	-15.606	0.523	702.328
			Max. Vy	8	30.622	-700.066	2.235
			Max. Vx	2	-30.613	0.523	702.328
			Max. Torque	8			6.261
L9	112.333 - 107.333	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.076	-0.475	8.048

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	8	-16.947	-854.273	2.160
			Max. My	2	-16.944	0.666	856.489
			Max. Vy	8	31.941	-854.273	2.160
			Max. Vx	2	-31.931	0.666	856.489
			Max. Torque	8			6.260
L10	107.333 - 106.92	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.170	-0.474	8.057
			Max. Mx	8	-17.042	-867.466	2.153
			Max. My	2	-17.039	0.678	869.678
			Max. Vy	8	31.967	-867.466	2.153
			Max. Vx	2	-31.958	0.678	869.678
			Max. Torque	8			6.252
L11	106.92 - 106.67	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.255	-0.473	8.063
			Max. Mx	8	-17.112	-875.459	2.149
			Max. My	2	-17.110	0.685	877.669
			Max. Vy	8	31.991	-875.459	2.149
			Max. Vx	2	-31.982	0.685	877.669
			Max. Torque	8			6.251
L12	106.67 - 103.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.376	-0.463	8.128
			Max. Mx	8	-17.893	-977.416	2.101
			Max. My	2	-17.891	0.775	979.596
			Max. Vy	8	32.347	-977.416	2.101
			Max. Vx	2	-32.337	0.775	979.596
			Max. Torque	8			6.251
L13	103.5 - 103.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.469	-0.462	8.133
			Max. Mx	8	-17.969	-985.504	2.096
			Max. My	2	-17.967	0.783	987.681
			Max. Vy	8	32.368	-985.504	2.096
			Max. Vx	2	-32.359	0.783	987.681
			Max. Torque	8			6.248
L14	103.25 - 98.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.251	-0.447	10.011
			Max. Mx	8	-20.670	-1151.629	2.701
			Max. My	2	-20.667	0.919	1154.572
			Max. Vy	8	35.530	-1151.629	2.701
			Max. Vx	2	-35.520	0.919	1154.572
			Max. Torque	8			7.727
L15	98.5 - 98.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.358	-0.446	10.017
			Max. Mx	8	-20.765	-1160.512	2.696
			Max. My	2	-20.763	0.926	1163.452
			Max. Vy	8	35.549	-1160.512	2.696
			Max. Vx	2	-35.540	0.926	1163.452
			Max. Torque	8			7.723
L16	98.25 - 97.58	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.647	-0.443	10.030
			Max. Mx	8	-20.967	-1184.355	2.686
			Max. My	2	-20.964	0.945	1187.289
			Max. Vy	8	35.631	-1184.355	2.686
			Max. Vx	2	-35.622	0.945	1187.289
			Max. Torque	8			7.723
L17	97.58 - 97.33	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.745	-0.443	10.036
			Max. Mx	8	-21.042	-1193.265	2.681
			Max. My	2	-21.040	0.953	1196.196
			Max. Vy	8	35.656	-1193.265	2.681

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-35.647	0.953	1196.196
			Max. Torque	8			7.722
L18	97.33 - 92.33	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-53.605	-0.425	10.132
			Max. Mx	8	-22.434	-1372.910	2.595
			Max. My	2	-22.432	1.097	1375.794
			Max. Vy	8	36.217	-1372.910	2.595
			Max. Vx	2	-36.207	1.097	1375.794
			Max. Torque	8			7.722
L19	92.33 - 87.1178	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-53.808	-0.423	10.143
			Max. Mx	8	-22.610	-1394.189	2.584
			Max. My	2	-22.608	1.114	1397.067
			Max. Vy	8	36.277	-1394.189	2.584
			Max. Vx	2	-36.267	1.114	1397.067
			Max. Torque	8			7.717
L20	87.1178 - 86.1178	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.671	-0.403	10.247
			Max. Mx	8	-24.829	-1600.271	2.483
			Max. My	2	-24.827	1.276	1603.096
			Max. Vy	8	36.989	-1600.271	2.483
			Max. Vx	2	-36.979	1.276	1603.096
			Max. Torque	8			7.713
L21	86.1178 - 83	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.570	-0.391	10.300
			Max. Mx	8	-25.622	-1715.970	2.418
			Max. My	2	-25.621	1.366	1718.764
			Max. Vy	8	37.270	-1715.970	2.418
			Max. Vx	2	-37.260	1.366	1718.764
			Max. Torque	8			7.711
L22	83 - 82.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.646	-0.390	10.304
			Max. Mx	8	-25.710	-1725.285	2.411
			Max. My	2	-25.708	1.374	1728.077
			Max. Vy	8	37.276	-1725.285	2.411
			Max. Vx	2	-37.268	1.374	1728.077
			Max. Torque	8			7.707
L23	82.75 - 77.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-59.248	-0.371	10.379
			Max. Mx	8	-26.993	-1912.746	2.301
			Max. My	2	-26.992	1.519	1915.488
			Max. Vy	8	37.735	-1912.746	2.301
			Max. Vx	2	-37.725	1.519	1915.488
			Max. Torque	8			7.706
L24	77.75 - 77.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-59.419	-0.369	10.386
			Max. Mx	8	-27.141	-1931.614	2.288
			Max. My	2	-27.140	1.533	1934.351
			Max. Vy	8	37.768	-1931.614	2.288
			Max. Vx	2	-37.758	1.533	1934.351
			Max. Torque	8			7.700
L25	77.25 - 77	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-59.548	-0.368	10.390
			Max. Mx	8	-27.254	-1941.057	2.283
			Max. My	2	-27.253	1.540	1943.792
			Max. Vy	8	37.790	-1941.057	2.283
			Max. Vx	2	-37.781	1.540	1943.792
			Max. Torque	8			7.699
L26	77 - 76.75	Pole	Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-59.659	-0.367	10.394
			Max. Mx	8	-27.338	-1950.507	2.277
			Max. My	2	-27.337	1.548	1953.239
			Max. Vy	8	37.819	-1950.507	2.277
			Max. Vx	2	-37.810	1.548	1953.239
			Max. Torque	8			7.699
L27	76.75 - 71.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-61.779	-0.346	10.459
			Max. Mx	8	-29.044	-2140.950	2.165
			Max. My	2	-29.043	1.692	2143.632
			Max. Vy	8	38.377	-2140.950	2.165
			Max. Vx	2	-38.367	1.692	2143.632
			Max. Torque	8			7.699
L28	71.75 - 69	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.993	-0.335	10.492
			Max. Mx	8	-29.998	-2246.859	2.102
			Max. My	2	-29.997	1.772	2249.513
			Max. Vy	8	38.682	-2246.859	2.102
			Max. Vx	2	-38.672	1.772	2249.513
			Max. Torque	8			7.694
L29	69 - 68.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.124	-0.334	10.496
			Max. Mx	8	-30.125	-2256.528	2.095
			Max. My	2	-30.124	1.779	2259.180
			Max. Vy	8	38.695	-2256.528	2.095
			Max. Vx	2	-38.685	1.779	2259.180
			Max. Torque	8			7.693
L30	68.75 - 63.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-65.756	-0.312	10.554
			Max. Mx	8	-32.207	-2451.451	1.979
			Max. My	2	-32.207	1.924	2454.051
			Max. Vy	8	39.291	-2451.451	1.979
			Max. Vx	2	-39.280	1.924	2454.051
			Max. Torque	8			7.693
L31	63.75 - 60	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.781	-0.273	10.547
			Max. Mx	8	-33.798	-2599.558	1.890
			Max. My	2	-33.797	2.032	2602.120
			Max. Vy	8	39.730	-2599.558	1.890
			Max. Vx	2	-39.719	2.032	2602.120
			Max. Torque	8			7.690
L32	60 - 59.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.918	-0.269	10.545
			Max. Mx	8	-33.921	-2609.490	1.884
			Max. My	2	-33.920	2.039	2612.049
			Max. Vy	8	39.746	-2609.490	1.884
			Max. Vx	2	-39.736	2.039	2612.049
			Max. Torque	8			7.688
L33	59.75 - 58.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.616	-0.251	10.513
			Max. Mx	8	-34.442	-2659.258	1.854
			Max. My	2	-34.442	2.075	2661.804
			Max. Vy	8	39.903	-2659.258	1.854
			Max. Vx	2	-39.892	2.075	2661.804
			Max. Torque	8			7.687
L34	58.5 - 58.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.756	-0.247	10.506
			Max. Mx	8	-34.565	-2669.233	1.847
			Max. My	2	-34.565	2.083	2671.776
			Max. Vy	8	39.919	-2669.233	1.847
			Max. Vx	2	-39.909	2.083	2671.776

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	8			7.687
L35	58.25 - 58	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.897	-0.243	10.499
			Max. Mx	8	-34.673	-2679.215	1.841
			Max. My	2	-34.673	2.090	2681.756
			Max. Vy	8	39.947	-2679.215	1.841
			Max. Vx	2	-39.938	2.090	2681.756
			Max. Torque	8			7.687
L36	58 - 57.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.030	-0.240	10.491
			Max. Mx	8	-34.775	-2689.204	1.835
			Max. My	2	-34.774	2.097	2691.743
			Max. Vy	8	39.975	-2689.204	1.835
			Max. Vx	2	-39.966	2.097	2691.743
			Max. Torque	8			7.687
L37	57.75 - 56.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.562	-0.225	10.461
			Max. Mx	8	-35.169	-2729.228	1.811
			Max. My	2	-35.169	2.126	2731.756
			Max. Vy	8	40.095	-2729.228	1.811
			Max. Vx	2	-40.084	2.126	2731.756
			Max. Torque	8			7.686
L38	56.75 - 56.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.704	-0.221	10.455
			Max. Mx	8	-35.294	-2739.251	1.804
			Max. My	2	-35.294	2.133	2741.777
			Max. Vy	8	40.110	-2739.251	1.804
			Max. Vx	2	-40.100	2.133	2741.777
			Max. Torque	8			7.686
L39	56.5 - 51.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-72.406	-0.146	10.289
			Max. Mx	8	-37.477	-2941.174	1.681
			Max. My	2	-37.476	2.278	2943.648
			Max. Vy	8	40.680	-2941.174	1.681
			Max. Vx	2	-40.669	2.278	2943.648
			Max. Torque	8			7.686
L40	51.5 - 42.0418	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-74.406	-0.089	10.148
			Max. Mx	8	-39.112	-3091.638	1.588
			Max. My	2	-39.112	2.384	3094.073
			Max. Vy	8	41.081	-3091.638	1.588
			Max. Vx	2	-41.070	2.384	3094.073
			Max. Torque	8			7.683
L41	42.0418 - 41.0418	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-80.897	0.014	9.888
			Max. Mx	8	-44.448	-3373.047	1.420
			Max. My	2	-44.447	2.580	3375.411
			Max. Vy	8	41.986	-3373.047	1.420
			Max. Vx	2	-41.975	2.580	3375.411
			Max. Torque	8			7.680
L42	41.0418 - 36.0418	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-83.812	0.091	9.697
			Max. Mx	8	-46.877	-3584.172	1.291
			Max. My	2	-46.877	2.725	3586.484
			Max. Vy	8	42.500	-3584.172	1.291
			Max. Vx	2	-42.489	2.725	3586.484
			Max. Torque	8			7.679
L43	36.0418 - 31.25	Pole	Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-86.694	0.214	9.567
			Max. Mx	8	-49.238	-3788.868	1.165
			Max. My	2	-49.237	2.863	3791.129
			Max. Vy	8	42.977	-3788.868	1.165
			Max. Vx	2	-42.966	2.863	3791.129
			Max. Torque	8			7.677
L44	31.25 - 31	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.843	0.221	9.562
			Max. Mx	8	-49.376	-3799.609	1.157
			Max. My	2	-49.375	2.870	3801.868
			Max. Vy	8	42.982	-3799.609	1.157
			Max. Vx	2	-42.972	2.870	3801.868
			Max. Torque	8			7.676
L45	31 - 27.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-88.847	0.283	9.495
			Max. Mx	8	-50.960	-3939.749	1.071
			Max. My	2	-50.959	2.964	3941.974
			Max. Vy	8	43.289	-3939.749	1.071
			Max. Vx	2	-43.277	2.964	3941.974
			Max. Torque	8			7.676
L46	27.75 - 27.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-89.004	0.287	9.491
			Max. Mx	8	-51.100	-3950.568	1.063
			Max. My	2	-51.099	2.971	3952.790
			Max. Vy	8	43.291	-3950.568	1.063
			Max. Vx	2	-43.281	2.971	3952.790
			Max. Torque	8			7.675
L47	27.5 - 27.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-89.161	0.291	9.486
			Max. Mx	8	-51.224	-3961.392	1.056
			Max. My	2	-51.223	2.978	3963.611
			Max. Vy	8	43.313	-3961.392	1.056
			Max. Vx	2	-43.303	2.978	3963.611
			Max. Torque	8			7.674
L48	27.25 - 27	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-89.315	0.292	9.488
			Max. Mx	8	-51.347	-3972.221	1.049
			Max. My	2	-51.347	2.985	3974.438
			Max. Vy	8	43.335	-3972.221	1.049
			Max. Vx	2	-43.325	2.985	3974.438
			Max. Torque	8			7.674
L49	27 - 22	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-92.347	0.250	9.550
			Max. Mx	8	-53.807	-4189.962	0.914
			Max. My	2	-53.807	3.129	4192.125
			Max. Vy	8	43.788	-4189.962	0.914
			Max. Vx	2	-43.777	3.129	4192.125
			Max. Torque	8			7.674
L50	22 - 17	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-95.357	0.166	9.655
			Max. Mx	8	-56.313	-4409.815	0.776
			Max. My	2	-56.313	3.272	4411.924
			Max. Vy	8	44.197	-4409.815	0.776
			Max. Vx	2	-44.185	3.272	4411.924
			Max. Torque	8			7.673
L51	17 - 12	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-98.383	0.083	9.760
			Max. Mx	8	-58.850	-4631.626	0.636
			Max. My	2	-58.850	3.414	4633.681
			Max. Vy	8	44.573	-4631.626	0.636
			Max. Vx	2	-44.561	3.414	4633.681

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	8			7.672
L52	12 - 7	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-101.417	0.002	9.861
			Max. Mx	8	-61.417	-4855.313	0.495
			Max. My	2	-61.417	3.556	4857.313
			Max. Vy	8	44.948	-4855.313	0.495
			Max. Vx	2	-44.936	3.556	4857.313
			Max. Torque	8			7.671
L53	7 - 2	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-104.438	-0.074	9.955
			Max. Mx	8	-64.018	-5080.860	0.351
			Max. My	2	-64.018	3.697	5082.806
			Max. Vy	8	45.319	-5080.860	0.351
			Max. Vx	2	-45.307	3.697	5082.806
			Max. Torque	8			7.671
L54	2 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-105.623	-0.100	9.987
			Max. Mx	8	-65.070	-5171.597	0.294
			Max. My	2	-65.070	3.754	5173.520
			Max. Vy	8	45.467	-5171.597	0.294
			Max. Vx	2	-45.455	3.754	5173.520
			Max. Torque	8			7.670

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	105.623	-0.000	0.000
	Max. H_x	21	48.815	45.442	0.028
	Max. H_z	2	65.087	0.028	45.431
	Max. M_x	2	5173.520	0.028	45.431
	Max. M_z	8	5171.597	-45.442	-0.028
	Max. Torsion	8	7.670	-45.442	-0.028
	Min. Vert	25	48.815	22.745	39.358
	Min. H_x	8	65.087	-45.442	-0.028
	Min. H_z	14	65.087	-0.028	-45.431
	Min. M_x	14	-5165.088	-0.028	-45.431
	Min. M_z	20	-5171.349	45.442	0.028
	Min. Torsion	20	-7.665	45.442	0.028

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	54.239	0.000	-0.000	-3.429	-0.102	-0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	65.087	-0.028	-45.431	-5173.520	3.754	0.440
0.9 Dead+1.0 Wind 0 deg - No Ice	48.815	-0.028	-45.431	-5119.491	3.743	0.444
1.2 Dead+1.0 Wind 30 deg - No Ice	65.087	22.697	-39.330	-4479.029	-2582.538	-3.451

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 30 deg - No Ice	48.815	22.697	-39.330	-4432.112	-2556.064	-3.448
1.2 Dead+1.0 Wind 60 deg - No Ice	65.087	39.340	-22.691	-2585.481	-4476.851	-6.420
0.9 Dead+1.0 Wind 60 deg - No Ice	48.815	39.340	-22.691	-2557.954	-4430.983	-6.419
1.2 Dead+1.0 Wind 90 deg - No Ice	65.087	45.442	0.028	-0.293	-5171.597	-7.670
0.9 Dead+1.0 Wind 90 deg - No Ice	48.815	45.442	0.028	0.767	-5118.620	-7.670
1.2 Dead+1.0 Wind 120 deg - No Ice	65.087	39.368	22.739	2583.817	-4480.654	-6.863
0.9 Dead+1.0 Wind 120 deg - No Ice	48.815	39.368	22.739	2558.429	-4434.756	-6.865
1.2 Dead+1.0 Wind 150 deg - No Ice	65.087	22.745	39.358	4474.467	-2589.188	-4.214
0.9 Dead+1.0 Wind 150 deg - No Ice	48.815	22.745	39.358	4429.734	-2562.652	-4.217
1.2 Dead+1.0 Wind 180 deg - No Ice	65.087	0.028	45.431	5165.088	-3.994	-0.435
0.9 Dead+1.0 Wind 180 deg - No Ice	48.815	0.028	45.431	5113.291	-3.918	-0.438
1.2 Dead+1.0 Wind 210 deg - No Ice	65.087	-22.697	39.330	4470.618	2582.253	3.459
0.9 Dead+1.0 Wind 210 deg - No Ice	48.815	-22.697	39.330	4425.927	2555.856	3.456
1.2 Dead+1.0 Wind 240 deg - No Ice	65.087	-39.340	22.691	2577.120	4476.563	6.423
0.9 Dead+1.0 Wind 240 deg - No Ice	48.815	-39.340	22.691	2551.807	4430.772	6.421
1.2 Dead+1.0 Wind 270 deg - No Ice	65.087	-45.442	-0.028	-8.040	5171.349	7.665
0.9 Dead+1.0 Wind 270 deg - No Ice	48.815	-45.442	-0.028	-6.894	5118.439	7.665
1.2 Dead+1.0 Wind 300 deg - No Ice	65.087	-39.368	-22.739	-2592.171	4480.451	6.855
0.9 Dead+1.0 Wind 300 deg - No Ice	48.815	-39.368	-22.739	-2564.571	4434.608	6.857
1.2 Dead+1.0 Wind 330 deg - No Ice	65.087	-22.745	-39.358	-4482.871	2588.989	4.211
0.9 Dead+1.0 Wind 330 deg - No Ice	48.815	-22.745	-39.358	-4435.913	2562.507	4.214
1.2 Dead+1.0 Ice+1.0 Temp	105.623	0.000	-0.000	-9.987	-0.100	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	105.623	-0.004	-9.579	-1119.466	0.512	0.064
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	105.623	4.787	-8.294	-970.546	-554.359	-0.980
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	105.623	8.295	-4.786	-564.297	-960.712	-1.760
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	105.623	9.581	0.004	-9.578	-1109.668	-2.070
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	105.623	8.299	4.793	544.975	-961.314	-1.825
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	105.623	4.794	8.298	950.770	-555.405	-1.091
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	105.623	0.004	9.579	1099.079	-0.705	-0.064
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	105.623	-4.787	8.294	950.162	554.159	0.979
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	105.623	-8.295	4.786	543.921	960.512	1.760

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	105.623	-9.581	-0.004	-10.794	1109.474	2.069
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	105.623	-8.299	-4.793	-565.351	961.127	1.824
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	105.623	-4.794	-8.298	-971.154	555.219	1.090
Dead+Wind 0 deg - Service	54.239	-0.005	-8.456	-961.141	0.612	0.082
Dead+Wind 30 deg - Service	54.239	4.225	-7.320	-832.488	-478.496	-0.655
Dead+Wind 60 deg - Service	54.239	7.322	-4.223	-481.712	-829.419	-1.217
Dead+Wind 90 deg - Service	54.239	8.458	0.005	-2.806	-958.127	-1.453
Dead+Wind 120 deg - Service	54.239	7.327	4.232	475.907	-830.134	-1.299
Dead+Wind 150 deg - Service	54.239	4.233	7.325	826.157	-479.736	-0.797
Dead+Wind 180 deg - Service	54.239	0.005	8.456	954.092	-0.822	-0.082
Dead+Wind 210 deg - Service	54.239	-4.225	7.320	825.440	478.285	0.655
Dead+Wind 240 deg - Service	54.239	-7.322	4.223	474.665	829.208	1.217
Dead+Wind 270 deg - Service	54.239	-8.458	-0.005	-4.240	957.918	1.452
Dead+Wind 300 deg - Service	54.239	-7.327	-4.232	-482.954	829.926	1.299
Dead+Wind 330 deg - Service	54.239	-4.233	-7.325	-833.205	479.528	0.797

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.000	-54.239	0.000	0.000	54.239	0.000	0.000%
2	-0.028	-65.087	-45.431	0.028	65.087	45.431	0.000%
3	-0.028	-48.815	-45.431	0.028	48.815	45.431	0.000%
4	22.697	-65.087	-39.330	-22.697	65.087	39.330	0.000%
5	22.697	-48.815	-39.330	-22.697	48.815	39.330	0.000%
6	39.340	-65.087	-22.691	-39.340	65.087	22.691	0.000%
7	39.340	-48.815	-22.691	-39.340	48.815	22.691	0.000%
8	45.442	-65.087	0.028	-45.442	65.087	-0.028	0.000%
9	45.442	-48.815	0.028	-45.442	48.815	-0.028	0.000%
10	39.368	-65.087	22.739	-39.368	65.087	-22.739	0.000%
11	39.368	-48.815	22.739	-39.368	48.815	-22.739	0.000%
12	22.745	-65.087	39.358	-22.745	65.087	-39.358	0.000%
13	22.745	-48.815	39.358	-22.745	48.815	-39.358	0.000%
14	0.028	-65.087	45.431	-0.028	65.087	-45.431	0.000%
15	0.028	-48.815	45.431	-0.028	48.815	-45.431	0.000%
16	-22.697	-65.087	39.330	22.697	65.087	-39.330	0.000%
17	-22.697	-48.815	39.330	22.697	48.815	-39.330	0.000%
18	-39.340	-65.087	22.691	39.340	65.087	-22.691	0.000%
19	-39.340	-48.815	22.691	39.340	48.815	-22.691	0.000%
20	-45.442	-65.087	-0.028	45.442	65.087	0.028	0.000%
21	-45.442	-48.815	-0.028	45.442	48.815	0.028	0.000%
22	-39.368	-65.087	-22.739	39.368	65.087	22.739	0.000%
23	-39.368	-48.815	-22.739	39.368	48.815	22.739	0.000%
24	-22.745	-65.087	-39.358	22.745	65.087	39.358	0.000%
25	-22.745	-48.815	-39.358	22.745	48.815	39.358	0.000%
26	0.000	-105.623	0.000	-0.000	105.623	0.000	0.000%
27	-0.004	-105.623	-9.579	0.004	105.623	9.579	0.000%
28	4.787	-105.623	-8.294	-4.787	105.623	8.294	0.000%
29	8.295	-105.623	-4.786	-8.295	105.623	4.786	0.000%
30	9.581	-105.623	0.004	-9.581	105.623	-0.004	0.000%
31	8.299	-105.623	4.793	-8.299	105.623	-4.793	0.000%
32	4.794	-105.623	8.298	-4.794	105.623	-8.298	0.000%
33	0.004	-105.623	9.579	-0.004	105.623	-9.579	0.000%
34	-4.787	-105.623	8.294	4.787	105.623	-8.294	0.000%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
35	-8.295	-105.623	4.786	8.295	105.623	-4.786	0.000%
36	-9.581	-105.623	-0.004	9.581	105.623	0.004	0.000%
37	-8.299	-105.623	-4.793	8.299	105.623	4.793	0.000%
38	-4.794	-105.623	-8.298	4.794	105.623	8.298	0.000%
39	-0.005	-54.239	-8.456	0.005	54.239	8.456	0.000%
40	4.225	-54.239	-7.320	-4.225	54.239	7.320	0.000%
41	7.322	-54.239	-4.223	-7.322	54.239	4.223	0.000%
42	8.458	-54.239	0.005	-8.458	54.239	-0.005	0.000%
43	7.327	-54.239	4.232	-7.327	54.239	-4.232	0.000%
44	4.233	-54.239	7.325	-4.233	54.239	-7.325	0.000%
45	0.005	-54.239	8.456	-0.005	54.239	-8.456	0.000%
46	-4.225	-54.239	7.320	4.225	54.239	-7.320	0.000%
47	-7.322	-54.239	4.223	7.322	54.239	-4.223	0.000%
48	-8.458	-54.239	-0.005	8.458	54.239	0.005	0.000%
49	-7.327	-54.239	-4.232	7.327	54.239	4.232	0.000%
50	-4.233	-54.239	-7.325	4.233	54.239	7.325	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000525
2	Yes	5	0.00000001	0.00023718
3	Yes	5	0.00000001	0.00008608
4	Yes	6	0.00000001	0.00094986
5	Yes	6	0.00000001	0.00026822
6	Yes	7	0.00000001	0.00004581
7	Yes	6	0.00000001	0.00030697
8	Yes	6	0.00000001	0.00013752
9	Yes	6	0.00000001	0.00004247
10	Yes	6	0.00000001	0.00091807
11	Yes	6	0.00000001	0.00025760
12	Yes	7	0.00000001	0.00004450
13	Yes	6	0.00000001	0.00029768
14	Yes	5	0.00000001	0.00029875
15	Yes	5	0.00000001	0.00011655
16	Yes	7	0.00000001	0.00004400
17	Yes	6	0.00000001	0.00029423
18	Yes	6	0.00000001	0.00091978
19	Yes	6	0.00000001	0.00025862
20	Yes	6	0.00000001	0.00014178
21	Yes	6	0.00000001	0.00004376
22	Yes	7	0.00000001	0.00004614
23	Yes	6	0.00000001	0.00030920
24	Yes	6	0.00000001	0.00094448
25	Yes	6	0.00000001	0.00026595
26	Yes	5	0.00000001	0.00025306
27	Yes	7	0.00000001	0.00012701
28	Yes	7	0.00000001	0.00014991
29	Yes	7	0.00000001	0.00015331
30	Yes	7	0.00000001	0.00012640
31	Yes	7	0.00000001	0.00014420
32	Yes	7	0.00000001	0.00014615
33	Yes	7	0.00000001	0.00012152
34	Yes	7	0.00000001	0.00014557
35	Yes	7	0.00000001	0.00014377

36	Yes	7	0.00000001	0.00012623
37	Yes	7	0.00000001	0.00015348
38	Yes	7	0.00000001	0.00014993
39	Yes	4	0.00000001	0.00097288
40	Yes	5	0.00000001	0.00022537
41	Yes	5	0.00000001	0.00031290
42	Yes	5	0.00000001	0.00014438
43	Yes	5	0.00000001	0.00021458
44	Yes	5	0.00000001	0.00027979
45	Yes	4	0.00000001	0.00096006
46	Yes	5	0.00000001	0.00027020
47	Yes	5	0.00000001	0.00021289
48	Yes	5	0.00000001	0.00014501
49	Yes	5	0.00000001	0.00031913
50	Yes	5	0.00000001	0.00022375

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	144.5 - 139.5	20.401	39	1.463	0.012
L2	139.5 - 134.5	18.879	39	1.443	0.011
L3	134.5 - 129.5	17.386	39	1.406	0.010
L4	129.5 - 124.5	15.940	39	1.352	0.009
L5	124.5 - 117.568	14.561	39	1.280	0.008
L6	121.409 - 116.409	13.749	39	1.226	0.007
L7	116.409 - 112.583	12.488	39	1.175	0.006
L8	112.583 - 112.333	11.573	39	1.108	0.006
L9	112.333 - 107.333	11.515	39	1.103	0.006
L10	107.333 - 106.92	10.410	39	1.007	0.005
L11	106.92 - 106.67	10.323	39	0.999	0.005
L12	106.67 - 103.5	10.271	39	0.997	0.004
L13	103.5 - 103.25	9.619	39	0.965	0.004
L14	103.25 - 98.5	9.569	39	0.962	0.004
L15	98.5 - 98.25	8.637	39	0.911	0.004
L16	98.25 - 97.58	8.589	39	0.909	0.004
L17	97.58 - 97.33	8.462	39	0.903	0.004
L18	97.33 - 92.33	8.415	39	0.901	0.004
L19	92.33 - 87.1178	7.499	39	0.848	0.003
L20	91.7428 - 86.1178	7.395	39	0.841	0.003
L21	86.1178 - 83	6.427	50	0.794	0.003
L22	83 - 82.75	5.925	50	0.742	0.003
L23	82.75 - 77.75	5.886	50	0.738	0.003
L24	77.75 - 77.25	5.158	50	0.653	0.002
L25	77.25 - 77	5.090	50	0.644	0.002
L26	77 - 76.75	5.057	50	0.642	0.002
L27	76.75 - 71.75	5.023	50	0.640	0.002
L28	71.75 - 69	4.380	50	0.588	0.002
L29	69 - 68.75	4.050	50	0.559	0.002
L30	68.75 - 63.75	4.021	50	0.557	0.002
L31	63.75 - 60	3.459	50	0.516	0.001
L32	60 - 59.75	3.066	50	0.484	0.001
L33	59.75 - 58.5	3.041	50	0.482	0.001
L34	58.5 - 58.25	2.916	50	0.472	0.001
L35	58.25 - 58	2.892	50	0.470	0.001
L36	58 - 57.75	2.867	50	0.468	0.001
L37	57.75 - 56.75	2.843	50	0.465	0.001
L38	56.75 - 56.5	2.746	50	0.455	0.001
L39	56.5 - 51.5	2.723	50	0.453	0.001

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L40	51.5 - 42.0418	2.272	50	0.409	0.001
L41	47.8178 - 41.0418	1.969	50	0.376	0.001
L42	41.0418 - 36.0418	1.456	50	0.343	0.001
L43	36.0418 - 31.25	1.118	50	0.302	0.001
L44	31.25 - 31	0.835	50	0.262	0.001
L45	31 - 27.75	0.821	50	0.260	0.001
L46	27.75 - 27.5	0.655	50	0.229	0.001
L47	27.5 - 27.25	0.643	50	0.227	0.001
L48	27.25 - 27	0.631	50	0.224	0.001
L49	27 - 22	0.619	50	0.222	0.000
L50	22 - 17	0.409	50	0.179	0.000
L51	17 - 12	0.243	50	0.138	0.000
L52	12 - 7	0.121	50	0.096	0.000
L53	7 - 2	0.041	50	0.056	0.000
L54	2 - 0	0.003	50	0.016	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
149.500	Strobe	39	20.401	1.463	0.012	10007
147.000	Lightning Rod 5/8" x 5'	39	20.401	1.463	0.012	10007
146.000	Top Hat	39	20.401	1.463	0.012	10007
135.000	(2) MX06FRO660-02 w/ Mount Pipe	39	17.533	1.411	0.010	6579
130.000	Miscellaneous [NA 507-1]	39	16.082	1.358	0.009	4725
128.000	AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	39	15.519	1.333	0.009	4110
118.000	APXVSPP18-C-A20 w/ Mount Pipe	39	12.882	1.192	0.007	4331
108.000	TME-PCS 1900MHz 4x45W-65MHz	39	10.551	1.022	0.005	3478
103.000	6' x 2" Mount Pipe	39	9.519	0.960	0.004	5396

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	144.5 - 139.5	109.244	2	7.810	0.063
L2	139.5 - 134.5	101.140	2	7.706	0.059
L3	134.5 - 129.5	93.191	2	7.515	0.055
L4	129.5 - 124.5	85.486	2	7.231	0.049
L5	124.5 - 117.568	78.125	2	6.854	0.042
L6	121.409 - 116.409	73.790	2	6.571	0.038
L7	116.409 - 112.583	67.048	2	6.297	0.034
L8	112.583 - 112.333	62.156	24	5.942	0.030
L9	112.333 - 107.333	61.846	24	5.918	0.029
L10	107.333 - 106.92	55.929	24	5.408	0.024
L11	106.92 - 106.67	55.465	24	5.365	0.024
L12	106.67 - 103.5	55.185	24	5.352	0.024
L13	103.5 - 103.25	51.696	24	5.183	0.022

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L14	103.25 - 98.5	51.425	24	5.169	0.022
L15	98.5 - 98.25	46.429	24	4.896	0.020
L16	98.25 - 97.58	46.173	24	4.885	0.020
L17	97.58 - 97.33	45.492	24	4.854	0.019
L18	97.33 - 92.33	45.238	24	4.841	0.019
L19	92.33 - 87.1178	40.326	24	4.557	0.017
L20	91.7428 - 86.1178	39.769	24	4.523	0.017
L21	86.1178 - 83	34.571	24	4.270	0.015
L22	83 - 82.75	31.878	24	3.990	0.014
L23	82.75 - 77.75	31.670	24	3.967	0.013
L24	77.75 - 77.25	27.758	24	3.513	0.011
L25	77.25 - 77	27.393	24	3.468	0.011
L26	77 - 76.75	27.212	24	3.457	0.011
L27	76.75 - 71.75	27.031	24	3.443	0.011
L28	71.75 - 69	23.575	24	3.164	0.009
L29	69 - 68.75	21.798	24	3.010	0.009
L30	68.75 - 63.75	21.641	24	2.999	0.009
L31	63.75 - 60	18.620	24	2.776	0.008
L32	60 - 59.75	16.508	24	2.607	0.007
L33	59.75 - 58.5	16.372	24	2.595	0.007
L34	58.5 - 58.25	15.700	24	2.540	0.007
L35	58.25 - 58	15.567	24	2.529	0.007
L36	58 - 57.75	15.435	24	2.518	0.007
L37	57.75 - 56.75	15.304	24	2.504	0.007
L38	56.75 - 56.5	14.785	24	2.448	0.006
L39	56.5 - 51.5	14.658	24	2.437	0.006
L40	51.5 - 42.0418	12.231	24	2.200	0.005
L41	47.8178 - 41.0418	10.602	24	2.026	0.005
L42	41.0418 - 36.0418	7.840	24	1.848	0.004
L43	36.0418 - 31.25	6.021	24	1.628	0.004
L44	31.25 - 31	4.496	24	1.413	0.003
L45	31 - 27.75	4.422	24	1.401	0.003
L46	27.75 - 27.5	3.526	24	1.234	0.003
L47	27.5 - 27.25	3.461	24	1.221	0.003
L48	27.25 - 27	3.398	24	1.209	0.003
L49	27 - 22	3.335	24	1.197	0.003
L50	22 - 17	2.202	24	0.967	0.002
L51	17 - 12	1.309	24	0.741	0.002
L52	12 - 7	0.650	24	0.519	0.001
L53	7 - 2	0.220	24	0.302	0.001
L54	2 - 0	0.018	24	0.085	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
149.500	Strobe	2	109.244	7.810	0.063	1984
147.000	Lightning Rod 5/8" x 5'	2	109.244	7.810	0.063	1984
146.000	Top Hat	2	109.244	7.810	0.063	1984
135.000	(2) MX06FRO660-02 w/ Mount Pipe	2	93.976	7.538	0.056	1300
130.000	Miscellaneous [NA 507-1]	2	86.243	7.263	0.050	928
128.000	AIR 32 B2A B66AA_T-MOBILE w/ Mount Pipe	2	83.236	7.132	0.047	806
118.000	APXVSPP18-C-A20 w/ Mount Pipe	2	69.156	6.389	0.035	838
108.000	TME-PCS 1900MHz	24	56.688	5.487	0.025	665

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
103.000	4x45W-65MHz 6' x 2" Mount Pipe	24	51.156	5.155	0.022	1029

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	144.5 - 139.5 (1)	TP22.092x21x0.188	5.000	0.000	0.0	13.036	-4.203	762.603	0.006
L2	139.5 - 134.5 (2)	TP23.184x22.092x0.188	5.000	0.000	0.0	13.686	-7.106	800.623	0.009
L3	134.5 - 129.5 (3)	TP24.276x23.184x0.188	5.000	0.000	0.0	14.336	-7.835	838.642	0.009
L4	129.5 - 124.5 (4)	TP25.368x24.276x0.188	5.000	0.000	0.0	14.986	-11.527	876.662	0.013
L5	124.5 - 117.568 (5)	TP26.882x25.368x0.188	6.932	0.000	0.0	15.387	-11.938	900.167	0.013
L6	117.568 - 116.409 (6)	TP26.737x25.668x0.25	5.000	0.000	0.0	21.017	-14.880	1229.520	0.012
L7	116.409 - 112.583 (7)	TP27.555x26.737x0.25	3.826	0.000	0.0	21.666	-15.531	1267.470	0.012
L8	112.583 - 112.333 (8)	TP27.608x27.555x0.25	0.250	0.000	0.0	21.709	-15.601	1269.950	0.012
L9	112.333 - 107.333 (9)	TP28.677x27.608x0.25	5.000	0.000	0.0	22.557	-16.940	1319.560	0.013
L10	107.333 - 106.92 (10)	TP28.765x28.677x0.25	0.413	0.000	0.0	22.627	-17.035	1323.660	0.013
L11	106.92 - 106.67 (11)	TP28.818x28.765x0.538	0.250	0.000	0.0	48.248	-17.106	2822.500	0.006
L12	106.67 - 103.5 (12)	TP29.496x28.818x0.525	3.170	0.000	0.0	48.276	-17.887	2824.120	0.006
L13	103.5 - 103.25 (13)	TP29.549x29.496x0.525	0.250	0.000	0.0	48.365	-17.963	2829.330	0.006
L14	103.25 - 98.5 (14)	TP30.564x29.549x0.513	4.750	0.000	0.0	48.885	-20.663	2859.760	0.007
L15	98.5 - 98.25 (15)	TP30.618x30.564x0.675	0.250	0.000	0.0	64.151	-20.759	3752.840	0.006
L16	98.25 - 97.58 (16)	TP30.761x30.618x0.675	0.670	0.000	0.0	64.458	-20.960	3770.790	0.006
L17	97.58 - 97.33 (17)	TP30.815x30.761x0.563	0.250	0.000	0.0	54.011	-21.035	3159.660	0.007
L18	97.33 - 92.33 (18)	TP31.883x30.815x0.55	5.000	0.000	0.0	54.698	-22.429	3199.850	0.007
L19	92.33 - 87.1178 (19)	TP32.997x31.883x0.55	5.212	0.000	0.0	54.917	-22.604	3212.660	0.007
L20	87.1178 - 86.1178 (20)	TP32.72x31.509x0.375	5.625	0.000	0.0	38.499	-24.823	2252.200	0.011
L21	86.1178 - 83 (21)	TP33.392x32.72x0.375	3.118	0.000	0.0	39.299	-25.617	2298.970	0.011
L22	83 - 82.75 (22)	TP33.446x33.392x0.375	0.250	0.000	0.0	39.363	-25.705	2302.720	0.011
L23	82.75 - 77.75	TP34.523x33.446x0.375	5.000	0.000	0.0	40.645	-26.989	2377.720	0.011

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	(23)								
L24	77.75 - 77.25 (24)	TP34.631x34.523x0.375	0.500	0.000	0.0	40.773	-27.137	2385.220	0.011
L25	77.25 - 77 (25)	TP34.685x34.631x0.825	0.250	0.000	0.0	88.663	-27.250	5186.790	0.005
L26	77 - 76.75 (26)	TP34.738x34.685x0.638	0.250	0.000	0.0	69.001	-27.334	4036.540	0.007
L27	76.75 - 71.75 (27)	TP35.816x34.738x0.625	5.000	0.000	0.0	69.809	-29.040	4083.850	0.007
L28	71.75 - 69 (28)	TP36.408x35.816x0.625	2.750	0.000	0.0	70.985	-29.994	4152.600	0.007
L29	69 - 68.75 (29)	TP36.462x36.408x0.8	0.250	0.000	0.0	90.553	-30.121	5297.330	0.006
L30	68.75 - 63.75 (30)	TP37.539x36.462x0.788	5.000	0.000	0.0	91.861	-32.204	5373.890	0.006
L31	63.75 - 60 (31)	TP38.347x37.539x0.775	3.750	0.000	0.0	92.421	-33.795	5406.630	0.006
L32	60 - 59.75 (32)	TP38.401x38.347x0.775	0.250	0.000	0.0	92.554	-33.918	5414.380	0.006
L33	59.75 - 58.5 (33)	TP38.67x38.401x0.775	1.250	0.000	0.0	93.216	-34.439	5453.130	0.006
L34	58.5 - 58.25 (34)	TP38.724x38.67x0.775	0.250	0.000	0.0	93.349	-34.563	5460.880	0.006
L35	58.25 - 58 (35)	TP38.778x38.724x0.775	0.250	0.000	0.0	93.481	-34.670	5468.630	0.006
L36	58 - 57.75 (36)	TP38.832x38.778x0.613	0.250	0.000	0.0	74.301	-34.772	4346.590	0.008
L37	57.75 - 56.75 (37)	TP39.047x38.832x0.613	1.000	0.000	0.0	74.719	-35.167	4371.090	0.008
L38	56.75 - 56.5 (38)	TP39.101x39.047x0.738	0.250	0.000	0.0	89.802	-35.291	5253.410	0.007
L39	56.5 - 51.5 (39)	TP40.178x39.101x0.725	5.000	0.000	0.0	90.787	-37.474	5311.050	0.007
L40	51.5 - 42.0418 (40)	TP42.216x40.178x0.713	9.458	0.000	0.0	91.044	-39.110	5326.080	0.007
L41	42.0418 - 41.0418 (41)	TP41.678x40.221x0.788	6.776	0.000	0.0	102.206	-44.446	5979.060	0.007
L42	41.0418 - 36.0418 (42)	TP42.753x41.678x0.788	5.000	0.000	0.0	104.893	-46.876	6136.220	0.008
L43	36.0418 - 31.25 (43)	TP43.783x42.753x0.763	4.792	0.000	0.0	104.116	-49.236	6090.790	0.008
L44	31.25 - 31 (44)	TP43.836x43.783x0.65	0.250	0.000	0.0	89.098	-49.374	5212.210	0.009
L45	31 - 27.75 (45)	TP44.535x43.836x0.65	3.250	0.000	0.0	90.539	-50.958	5296.530	0.010
L46	27.75 - 27.5 (46)	TP44.589x44.535x0.65	0.250	0.000	0.0	90.650	-51.098	5303.020	0.010
L47	27.5 - 27.25 (47)	TP44.642x44.589x0.65	0.250	0.000	0.0	90.761	-51.222	5309.500	0.010
L48	27.25 - 27 (48)	TP44.696x44.642x0.725	0.250	0.000	0.0	101.184	-51.346	5919.280	0.009
L49	27 - 22 (49)	TP45.771x44.696x0.713	5.000	0.000	0.0	101.899	-53.806	5961.060	0.009
L50	22 - 17 (50)	TP46.846x45.771x0.713	5.000	0.000	0.0	104.329	-56.312	6103.250	0.009
L51	17 - 12 (51)	TP47.921x46.846x0.713	5.000	0.000	0.0	106.760	-58.849	6245.440	0.009
L52	12 - 7 (52)	TP48.995x47.921x0.713	5.000	0.000	0.0	109.190	-61.417	6387.640	0.010
L53	7 - 2 (53)	TP50.07x48.995x0.7	5.000	0.000	0.0	109.690	-64.018	6416.890	0.010
L54	2 - 0 (54)	TP50.5x50.07x0.7	2.000	0.000	0.0	110.646	-65.070	6472.770	0.010

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	144.5 - 139.5 (1)	TP22.092x21x0.188	84.183	412.151	0.204	0.000	412.151	0.000
L2	139.5 - 134.5 (2)	TP23.184x22.092x0.188	149.167	447.433	0.333	0.000	447.433	0.000
L3	134.5 - 129.5	TP24.276x23.184x0.188	243.696	483.412	0.504	0.000	483.412	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L4	129.5 - 124.5 (3)	TP25.368x24.276x0.188	361.983	519.990	0.696	0.000	519.990	0.000
L5	124.5 - 117.568 (4)	TP26.882x25.368x0.188	441.562	542.862	0.813	0.000	542.862	0.000
L6	117.568 - 116.409 (5)	TP26.737x25.668x0.25	578.449	825.969	0.700	0.000	825.969	0.000
L7	116.409 - 112.583 (6)	TP27.555x26.737x0.25	694.920	870.592	0.798	0.000	870.592	0.000
L8	112.583 - 112.333 (7)	TP27.608x27.555x0.25	702.577	873.533	0.804	0.000	873.533	0.000
L9	112.333 - 107.333 (8)	TP28.677x27.608x0.25	856.875	932.942	0.918	0.000	932.942	0.000
L10	107.333 - 106.92 (9)	TP28.765x28.677x0.25	870.075	937.892	0.928	0.000	937.892	0.000
L11	106.92 - 106.67 (10)	TP28.818x28.765x0.538	878.075	2061.800	0.426	0.000	2061.800	0.000
L12	106.67 - 103.5 (11)	TP29.496x28.818x0.525	980.092	2115.150	0.463	0.000	2115.150	0.000
L13	103.5 - 103.25 (12)	TP29.549x29.496x0.525	988.183	2123.033	0.465	0.000	2123.033	0.000
L14	103.25 - 98.5 (13)	TP30.564x29.549x0.513	1155.092	2224.100	0.519	0.000	2224.100	0.000
L15	98.5 - 98.25 (14)	TP30.618x30.564x0.675	1163.983	2892.475	0.402	0.000	2892.475	0.000
L16	98.25 - 97.58 (15)	TP30.761x30.618x0.675	1187.842	2920.508	0.407	0.000	2920.508	0.000
L17	97.58 - 97.33 (16)	TP30.815x30.761x0.563	1196.750	2469.958	0.485	0.000	2469.958	0.000
L18	97.33 - 92.33 (17)	TP31.883x30.815x0.55	1376.492	2593.417	0.531	0.000	2593.417	0.000
L19	92.33 - 87.1178 (18)	TP32.997x31.883x0.55	1397.783	2614.417	0.535	0.000	2614.417	0.000
L20	87.1178 - 86.1178 (19)	TP32.72x31.509x0.375	1603.967	1895.433	0.846	0.000	1895.433	0.000
L21	86.1178 - 83 (20)	TP33.392x32.72x0.375	1719.717	1975.433	0.871	0.000	1975.433	0.000
L22	83 - 82.75 (21)	TP33.446x33.392x0.375	1729.042	1981.917	0.872	0.000	1981.917	0.000
L23	82.75 - 77.75 (22)	TP34.523x33.446x0.375	1916.592	2113.875	0.907	0.000	2113.875	0.000
L24	77.75 - 77.25 (23)	TP34.631x34.523x0.375	1935.467	2127.300	0.910	0.000	2127.300	0.000
L25	77.25 - 77 (24)	TP34.685x34.631x0.825	1944.917	4512.550	0.431	0.000	4512.550	0.000
L26	77 - 76.75 (25)	TP34.738x34.685x0.638	1954.367	3556.550	0.550	0.000	3556.550	0.000
L27	76.75 - 71.75 (26)	TP35.816x34.738x0.625	2144.900	3716.608	0.577	0.000	3716.608	0.000
L28	71.75 - 69 (27)	TP36.408x35.816x0.625	2250.858	3843.908	0.586	0.000	3843.908	0.000
L29	69 - 68.75 (28)	TP36.462x36.408x0.8	2260.533	4863.200	0.465	0.000	4863.200	0.000
L30	68.75 - 63.75 (29)	TP37.539x36.462x0.788	2455.542	5089.233	0.482	0.000	5089.233	0.000
L31	63.75 - 60 (30)	TP38.347x37.539x0.775	2603.717	5238.642	0.497	0.000	5238.642	0.000
L32	60 - 59.75 (31)	TP38.401x38.347x0.775	2613.658	5253.825	0.497	0.000	5253.825	0.000
L33	59.75 - 58.5 (32)	TP38.67x38.401x0.775	2663.442	5330.058	0.500	0.000	5330.058	0.000
L34	58.5 - 58.25 (33)	TP38.724x38.67x0.775	2673.425	5345.367	0.500	0.000	5345.367	0.000
L35	58.25 - 58 (34)	TP38.778x38.724x0.775	2683.408	5360.708	0.501	0.000	5360.708	0.000
L36	58 - 57.75 (35)	TP38.832x38.778x0.613	2693.400	4303.483	0.626	0.000	4303.483	0.000
L37	57.75 - 56.75 (36)	TP39.047x38.832x0.613	2733.442	4352.517	0.628	0.000	4352.517	0.000
		(37)						

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L38	56.75 - 56.5 (38)	TP39.101x39.047x0.738	2743.475	5204.558	0.527	0.000	5204.558	0.000
L39	56.5 - 51.5 (39)	TP40.178x39.101x0.725	2945.483	5415.617	0.544	0.000	5415.617	0.000
L40	51.5 - 42.0418 (40)	TP42.216x40.178x0.713	3096.008	5545.550	0.558	0.000	5545.550	0.000
L41	42.0418 - 41.0418 (41)	TP41.678x40.221x0.788	3377.533	6313.417	0.535	0.000	6313.417	0.000
L42	41.0418 - 36.0418 (42)	TP42.753x41.678x0.788	3588.750	6652.891	0.539	0.000	6652.891	0.000
L43	36.0418 - 31.25 (43)	TP43.783x42.753x0.763	3793.525	6776.591	0.560	0.000	6776.591	0.000
L44	31.25 - 31 (44)	TP43.836x43.783x0.65	3804.275	5836.825	0.652	0.000	5836.825	0.000
L45	31 - 27.75 (45)	TP44.535x43.836x0.65	3944.467	6028.617	0.654	0.000	6028.617	0.000
L46	27.75 - 27.5 (46)	TP44.589x44.535x0.65	3955.292	6043.500	0.654	0.000	6043.500	0.000
L47	27.5 - 27.25 (47)	TP44.642x44.589x0.65	3966.117	6058.400	0.655	0.000	6058.400	0.000
L48	27.25 - 27 (48)	TP44.696x44.642x0.725	3976.950	6739.541	0.590	0.000	6739.541	0.000
L49	27 - 22 (49)	TP45.771x44.696x0.713	4194.775	6959.567	0.603	0.000	6959.567	0.000
L50	22 - 17 (50)	TP46.846x45.771x0.713	4414.717	7298.191	0.605	0.000	7298.191	0.000
L51	17 - 12 (51)	TP47.921x46.846x0.713	4636.608	7644.858	0.607	0.000	7644.858	0.000
L52	12 - 7 (52)	TP48.995x47.921x0.713	4860.375	7999.575	0.608	0.000	7999.575	0.000
L53	7 - 2 (53)	TP50.07x48.995x0.7	5086.008	8221.867	0.619	0.000	8221.867	0.000
L54	2 - 0 (54)	TP50.5x50.07x0.7	5176.775	8366.667	0.619	0.000	8366.667	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	144.5 - 139.5 (1)	TP22.092x21x0.188	12.149	228.781	0.053	0.882	438.868	0.002
L2	139.5 - 134.5 (2)	TP23.184x22.092x0.188	18.620	240.187	0.078	1.286	483.718	0.003
L3	134.5 - 129.5 (3)	TP24.276x23.184x0.188	19.457	251.593	0.077	2.055	530.751	0.004
L4	129.5 - 124.5 (4)	TP25.368x24.276x0.188	25.614	262.999	0.097	2.762	579.964	0.005
L5	124.5 - 117.568 (5)	TP26.882x25.368x0.188	25.892	270.050	0.096	2.760	611.482	0.005
L6	117.568 - 116.409 (6)	TP26.737x25.668x0.25	30.285	368.856	0.082	3.514	855.600	0.004
L7	116.409 - 112.583 (7)	TP27.555x26.737x0.25	30.631	380.242	0.081	3.511	909.233	0.004
L8	112.583 - 112.333 (8)	TP27.608x27.555x0.25	30.644	380.986	0.080	3.510	912.800	0.004
L9	112.333 - 107.333 (9)	TP28.677x27.608x0.25	31.959	395.868	0.081	3.506	985.500	0.004
L10	107.333 - 106.92 (10)	TP28.765x28.677x0.25	31.986	397.097	0.081	3.505	991.625	0.004
L11	106.92 - 106.67 (11)	TP28.818x28.765x0.538	32.016	846.750	0.038	3.505	2097.142	0.002
L12	106.67 - 103.5 (12)	TP29.496x28.818x0.525	32.365	847.237	0.038	3.504	2149.542	0.002
L13	103.5 - 103.25 (13)	TP29.549x29.496x0.525	32.394	848.799	0.038	3.503	2157.483	0.002

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L14	103.25 - 98.5 (14)	TP30.564x29.549x0.513	35.548	857.928	0.041	4.241	2257.900	0.002
L15	98.5 - 98.25 (15)	TP30.618x30.564x0.675	35.576	1125.850	0.032	4.240	2952.267	0.001
L16	98.25 - 97.58 (16)	TP30.761x30.618x0.675	35.650	1131.240	0.032	4.240	2980.575	0.001
L17	97.58 - 97.33 (17)	TP30.815x30.761x0.563	35.682	947.897	0.038	4.240	2511.283	0.002
L18	97.33 - 92.33 (18)	TP31.883x30.815x0.55	36.236	959.955	0.038	4.238	2634.117	0.002
L19	92.33 - 87.1178 (19)	TP32.997x31.883x0.55	36.296	963.799	0.038	4.237	2655.258	0.002
L20	87.1178 - 86.1178 (20)	TP32.72x31.509x0.375	37.007	675.660	0.055	4.235	1913.908	0.002
L21	86.1178 - 83 (21)	TP33.392x32.72x0.375	37.288	689.690	0.054	4.232	1994.217	0.002
L22	83 - 82.75 (22)	TP33.446x33.392x0.375	37.298	690.815	0.054	4.232	2000.725	0.002
L23	82.75 - 77.75 (23)	TP34.523x33.446x0.375	37.753	713.315	0.053	4.228	2133.175	0.002
L24	77.75 - 77.25 (24)	TP34.631x34.523x0.375	37.786	715.565	0.053	4.228	2146.658	0.002
L25	77.25 - 77 (25)	TP34.685x34.631x0.825	37.813	1556.040	0.024	4.227	4614.050	0.001
L26	77 - 76.75 (26)	TP34.738x34.685x0.638	37.840	1210.960	0.031	4.227	3616.408	0.001
L27	76.75 - 71.75 (27)	TP35.816x34.738x0.625	38.395	1225.150	0.031	4.225	3775.700	0.001
L28	71.75 - 69 (28)	TP36.408x35.816x0.625	38.700	1245.780	0.031	4.224	3903.892	0.001
L29	69 - 68.75 (29)	TP36.462x36.408x0.8	38.716	1589.200	0.024	4.224	4963.208	0.001
L30	68.75 - 63.75 (30)	TP37.539x36.462x0.788	39.308	1612.170	0.024	4.222	5188.775	0.001
L31	63.75 - 60 (31)	TP38.347x37.539x0.775	39.747	1621.990	0.025	4.221	5336.925	0.001
L32	60 - 59.75 (32)	TP38.401x38.347x0.775	39.765	1624.320	0.024	4.221	5352.233	0.001
L33	59.75 - 58.5 (33)	TP38.67x38.401x0.775	39.920	1635.940	0.024	4.221	5429.117	0.001
L34	58.5 - 58.25 (34)	TP38.724x38.67x0.775	39.938	1638.270	0.024	4.220	5444.558	0.001
L35	58.25 - 58 (35)	TP38.778x38.724x0.775	39.967	1640.590	0.024	4.220	5460.025	0.001
L36	58 - 57.75 (36)	TP38.832x38.778x0.613	39.994	1303.980	0.031	4.220	4364.458	0.001
L37	57.75 - 56.75 (37)	TP39.047x38.832x0.613	40.112	1311.330	0.031	4.220	4413.792	0.001
L38	56.75 - 56.5 (38)	TP39.101x39.047x0.738	40.129	1576.020	0.025	4.220	5294.908	0.001
L39	56.5 - 51.5 (39)	TP40.178x39.101x0.725	40.697	1593.320	0.026	4.219	5505.050	0.001
L40	51.5 - 42.0418 (40)	TP42.216x40.178x0.713	41.098	1597.820	0.026	4.218	5633.375	0.001
L41	42.0418 - 41.0418 (41)	TP41.678x40.221x0.788	42.003	1793.720	0.023	4.217	6423.241	0.001
L42	41.0418 - 36.0418 (42)	TP42.753x41.678x0.788	42.517	1840.870	0.023	4.215	6765.341	0.001
L43	36.0418 - 31.25 (43)	TP43.783x42.753x0.763	42.993	1827.240	0.024	4.215	6884.083	0.001
L44	31.25 - 31 (44)	TP43.836x43.783x0.65	42.999	1563.660	0.027	4.214	5913.841	0.001
L45	31 - 27.75 (45)	TP44.535x43.836x0.65	43.305	1588.960	0.027	4.214	6106.725	0.001
L46	27.75 - 27.5 (46)	TP44.589x44.535x0.65	43.308	1590.910	0.027	4.214	6121.683	0.001
L47	27.5 - 27.25 (47)	TP44.642x44.589x0.65	43.330	1592.850	0.027	4.214	6136.675	0.001
L48	27.25 - 27 (48)	TP44.696x44.642x0.725	43.352	1775.780	0.024	4.214	6838.133	0.001
L49	27 - 22 (49)	TP45.771x44.696x0.713	43.804	1788.320	0.024	4.213	7056.691	0.001
L50	22 - 17 (50)	TP46.846x45.771x0.713	44.213	1830.980	0.024	4.212	7397.358	0.001
L51	17 - 12 (51)	TP47.921x46.846x0.713	44.589	1873.630	0.024	4.212	7746.050	0.001

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L52	12 - 7 (52)	TP48.995x47.921x0.713	44.963	1916.290	0.023	4.211	8102.775	0.001
L53	7 - 2 (53)	TP50.07x48.995x0.7	45.334	1925.070	0.024	4.211	8323.191	0.001
L54	2 - 0 (54)	TP50.5x50.07x0.7	45.481	1941.830	0.023	4.211	8468.750	0.000

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Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	144.5 - 139.5 (1)	0.006	0.204	0.000	0.053	0.002	0.213 ✔	1.050	4.8.2 ✔
L2	139.5 - 134.5 (2)	0.009	0.333	0.000	0.078	0.003	0.349 ✔	1.050	4.8.2 ✔
L3	134.5 - 129.5 (3)	0.009	0.504	0.000	0.077	0.004	0.520 ✔	1.050	4.8.2 ✔
L4	129.5 - 124.5 (4)	0.013	0.696	0.000	0.097	0.005	0.720 ✔	1.050	4.8.2 ✔
L5	124.5 - 117.568 (5)	0.013	0.813	0.000	0.096	0.005	0.837 ✔	1.050	4.8.2 ✔
L6	117.568 - 116.409 (6)	0.012	0.700	0.000	0.082	0.004	0.720 ✔	1.050	4.8.2 ✔
L7	116.409 - 112.583 (7)	0.012	0.798	0.000	0.081	0.004	0.818 ✔	1.050	4.8.2 ✔
L8	112.583 - 112.333 (8)	0.012	0.804	0.000	0.080	0.004	0.824 ✔	1.050	4.8.2 ✔
L9	112.333 - 107.333 (9)	0.013	0.918	0.000	0.081	0.004	0.938 ✔	1.050	4.8.2 ✔
L10	107.333 - 106.92 (10)	0.013	0.928	0.000	0.081	0.004	0.948 ✔	1.050	4.8.2 ✔
L11	106.92 - 106.67 (11)	0.006	0.426	0.000	0.038	0.002	0.433 ✔	1.050	4.8.2 ✔
L12	106.67 - 103.5 (12)	0.006	0.463	0.000	0.038	0.002	0.471 ✔	1.050	4.8.2 ✔
L13	103.5 - 103.25 (13)	0.006	0.465	0.000	0.038	0.002	0.473 ✔	1.050	4.8.2 ✔
L14	103.25 - 98.5 (14)	0.007	0.519	0.000	0.041	0.002	0.528 ✔	1.050	4.8.2 ✔
L15	98.5 - 98.25 (15)	0.006	0.402	0.000	0.032	0.001	0.409 ✔	1.050	4.8.2 ✔
L16	98.25 - 97.58 (16)	0.006	0.407	0.000	0.032	0.001	0.413 ✔	1.050	4.8.2 ✔
L17	97.58 - 97.33 (17)	0.007	0.485	0.000	0.038	0.002	0.493 ✔	1.050	4.8.2 ✔
L18	97.33 - 92.33 (18)	0.007	0.531	0.000	0.038	0.002	0.539 ✔	1.050	4.8.2 ✔
L19	92.33 - 87.1178 (19)	0.007	0.535	0.000	0.038	0.002	0.543 ✔	1.050	4.8.2 ✔
L20	87.1178 - 86.1178 (20)	0.011	0.846	0.000	0.055	0.002	0.860 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio P_u / ϕP_n	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio V_u / ϕV_n	Ratio T_u / ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L21	86.1178 - 83 (21)	0.011	0.871	0.000	0.054	0.002	0.885 ✔	1.050	4.8.2 ✔
L22	83 - 82.75 (22)	0.011	0.872	0.000	0.054	0.002	0.887 ✔	1.050	4.8.2 ✔
L23	82.75 - 77.75 (23)	0.011	0.907	0.000	0.053	0.002	0.921 ✔	1.050	4.8.2 ✔
L24	77.75 - 77.25 (24)	0.011	0.910	0.000	0.053	0.002	0.924 ✔	1.050	4.8.2 ✔
L25	77.25 - 77 (25)	0.005	0.431	0.000	0.024	0.001	0.437 ✔	1.050	4.8.2 ✔
L26	77 - 76.75 (26)	0.007	0.550	0.000	0.031	0.001	0.557 ✔	1.050	4.8.2 ✔
L27	76.75 - 71.75 (27)	0.007	0.577	0.000	0.031	0.001	0.585 ✔	1.050	4.8.2 ✔
L28	71.75 - 69 (28)	0.007	0.586	0.000	0.031	0.001	0.594 ✔	1.050	4.8.2 ✔
L29	69 - 68.75 (29)	0.006	0.465	0.000	0.024	0.001	0.471 ✔	1.050	4.8.2 ✔
L30	68.75 - 63.75 (30)	0.006	0.482	0.000	0.024	0.001	0.489 ✔	1.050	4.8.2 ✔
L31	63.75 - 60 (31)	0.006	0.497	0.000	0.025	0.001	0.504 ✔	1.050	4.8.2 ✔
L32	60 - 59.75 (32)	0.006	0.497	0.000	0.024	0.001	0.504 ✔	1.050	4.8.2 ✔
L33	59.75 - 58.5 (33)	0.006	0.500	0.000	0.024	0.001	0.507 ✔	1.050	4.8.2 ✔
L34	58.5 - 58.25 (34)	0.006	0.500	0.000	0.024	0.001	0.507 ✔	1.050	4.8.2 ✔
L35	58.25 - 58 (35)	0.006	0.501	0.000	0.024	0.001	0.508 ✔	1.050	4.8.2 ✔
L36	58 - 57.75 (36)	0.008	0.626	0.000	0.031	0.001	0.635 ✔	1.050	4.8.2 ✔
L37	57.75 - 56.75 (37)	0.008	0.628	0.000	0.031	0.001	0.637 ✔	1.050	4.8.2 ✔
L38	56.75 - 56.5 (38)	0.007	0.527	0.000	0.025	0.001	0.535 ✔	1.050	4.8.2 ✔
L39	56.5 - 51.5 (39)	0.007	0.544	0.000	0.026	0.001	0.552 ✔	1.050	4.8.2 ✔
L40	51.5 - 42.0418 (40)	0.007	0.558	0.000	0.026	0.001	0.566 ✔	1.050	4.8.2 ✔
L41	42.0418 - 41.0418 (41)	0.007	0.535	0.000	0.023	0.001	0.543 ✔	1.050	4.8.2 ✔
L42	41.0418 - 36.0418 (42)	0.008	0.539	0.000	0.023	0.001	0.548 ✔	1.050	4.8.2 ✔
L43	36.0418 - 31.25 (43)	0.008	0.560	0.000	0.024	0.001	0.568 ✔	1.050	4.8.2 ✔
L44	31.25 - 31 (44)	0.009	0.652	0.000	0.027	0.001	0.662 ✔	1.050	4.8.2 ✔
L45	31 - 27.75 (45)	0.010	0.654	0.000	0.027	0.001	0.665 ✔	1.050	4.8.2 ✔
L46	27.75 - 27.5 (46)	0.010	0.654	0.000	0.027	0.001	0.665 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L47	27.5 - 27.25 (47)	0.010	0.655	0.000	0.027	0.001	0.665 ✔	1.050	4.8.2 ✔
L48	27.25 - 27 (48)	0.009	0.590	0.000	0.024	0.001	0.599 ✔	1.050	4.8.2 ✔
L49	27 - 22 (49)	0.009	0.603	0.000	0.024	0.001	0.612 ✔	1.050	4.8.2 ✔
L50	22 - 17 (50)	0.009	0.605	0.000	0.024	0.001	0.615 ✔	1.050	4.8.2 ✔
L51	17 - 12 (51)	0.009	0.607	0.000	0.024	0.001	0.617 ✔	1.050	4.8.2 ✔
L52	12 - 7 (52)	0.010	0.608	0.000	0.023	0.001	0.618 ✔	1.050	4.8.2 ✔
L53	7 - 2 (53)	0.010	0.619	0.000	0.024	0.001	0.629 ✔	1.050	4.8.2 ✔
L54	2 - 0 (54)	0.010	0.619	0.000	0.023	0.000	0.629 ✔	1.050	4.8.2 ✔

Section Capacity Table

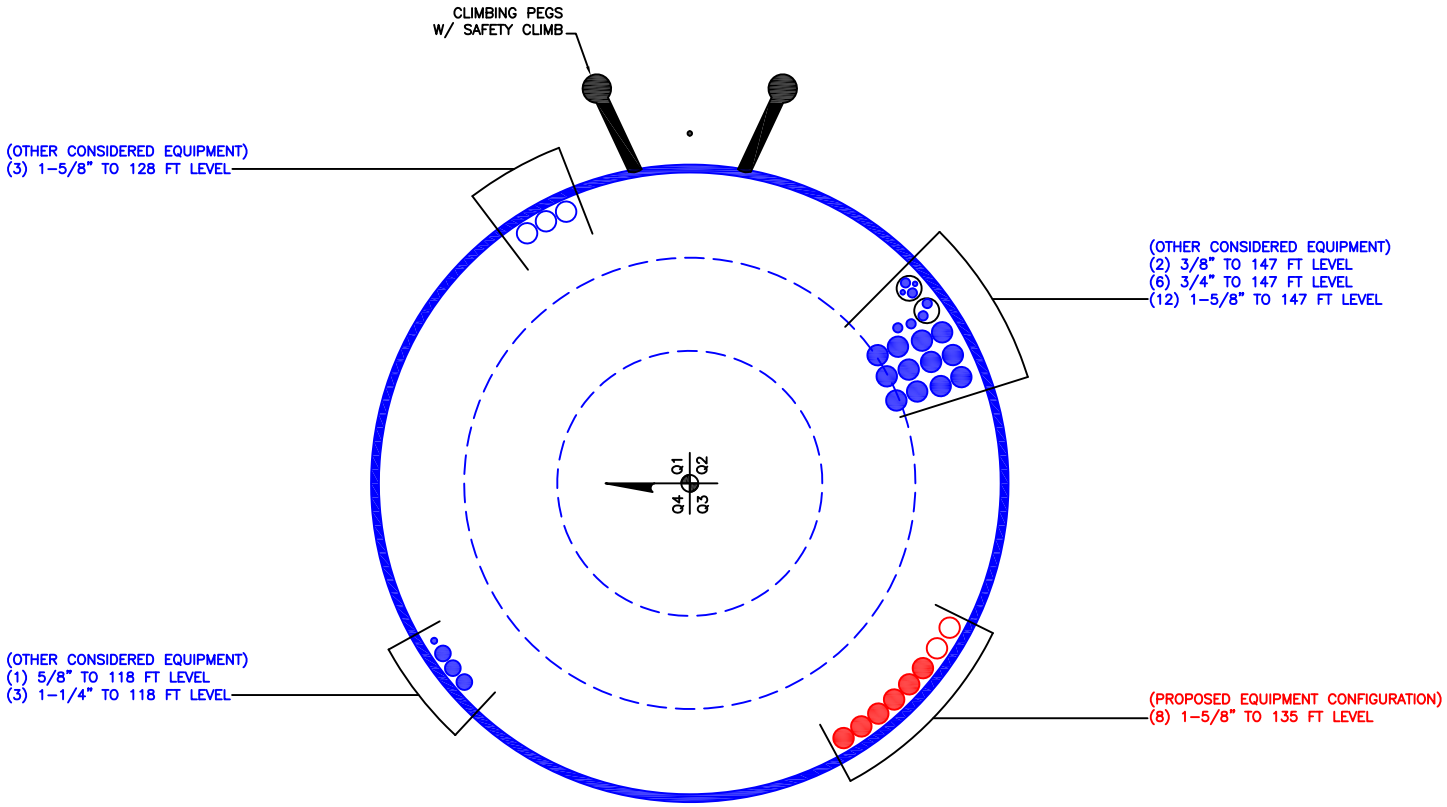
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	144.5 - 139.5	Pole	TP22.092x21x0.188	1	-4.203	800.733	**	**
L2	139.5 - 134.5	Pole	TP23.184x22.092x0.188	2	-7.106	840.654	**	**
L3	134.5 - 129.5	Pole	TP24.276x23.184x0.188	3	-7.835	880.574	**	**
L4	129.5 - 124.5	Pole	TP25.368x24.276x0.188	4	-11.527	920.495	**	**
L5	124.5 - 117.568	Pole	TP26.882x25.368x0.188	5	-11.938	945.175	**	**
L6	117.568 - 116.409	Pole	TP26.737x25.668x0.25	6	-14.880	1290.996	**	**
L7	116.409 - 112.583	Pole	TP27.555x26.737x0.25	7	-15.531	1330.843	**	**
L8	112.583 - 112.333	Pole	TP27.608x27.555x0.25	8	-15.601	1333.447	**	**
L9	112.333 - 107.333	Pole	TP28.677x27.608x0.25	9	-16.940	1385.538	**	**
L10	107.333 - 106.92	Pole	TP28.765x28.677x0.25	10	-17.035	1389.843	**	**
L11	106.92 - 106.67	Pole	TP28.818x28.765x0.538	11	-17.106	2963.625	**	**
L12	106.67 - 103.5	Pole	TP29.496x28.818x0.525	12	-17.887	2965.326	**	**
L13	103.5 - 103.25	Pole	TP29.549x29.496x0.525	13	-17.963	2970.796	**	**
L14	103.25 - 98.5	Pole	TP30.564x29.549x0.513	14	-20.663	3002.748	**	**
L15	98.5 - 98.25	Pole	TP30.618x30.564x0.675	15	-20.759	3940.482	**	**
L16	98.25 - 97.58	Pole	TP30.761x30.618x0.675	16	-20.960	3959.329	**	**
L17	97.58 - 97.33	Pole	TP30.815x30.761x0.563	17	-21.035	3317.643	**	**
L18	97.33 - 92.33	Pole	TP31.883x30.815x0.55	18	-22.429	3359.842	**	**
L19	92.33 - 87.1178	Pole	TP32.997x31.883x0.55	19	-22.604	3373.293	**	**
L20	87.1178 - 86.1178	Pole	TP32.72x31.509x0.375	20	-24.823	2364.810	**	**
L21	86.1178 - 83	Pole	TP33.392x32.72x0.375	21	-25.617	2413.918	**	**
L22	83 - 82.75	Pole	TP33.446x33.392x0.375	22	-25.705	2417.856	**	**
L23	82.75 - 77.75	Pole	TP34.523x33.446x0.375	23	-26.989	2496.606	**	**
L24	77.75 - 77.25	Pole	TP34.631x34.523x0.375	24	-27.137	2504.481	**	**
L25	77.25 - 77	Pole	TP34.685x34.631x0.825	25	-27.250	5446.129	**	**
L26	77 - 76.75	Pole	TP34.738x34.685x0.638	26	-27.334	4238.367	**	**
L27	76.75 - 71.75	Pole	TP35.816x34.738x0.625	27	-29.040	4288.042	**	**
L28	71.75 - 69	Pole	TP36.408x35.816x0.625	28	-29.994	4360.230	**	**
L29	69 - 68.75	Pole	TP36.462x36.408x0.8	29	-30.121	5562.196	**	**
L30	68.75 - 63.75	Pole	TP37.539x36.462x0.788	30	-32.204	5642.584	**	**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L31	63.75 - 60	Pole	TP38.347x37.539x0.775	31	-33.795	5676.961	**	**
L32	60 - 59.75	Pole	TP38.401x38.347x0.775	32	-33.918	5685.099	**	**
L33	59.75 - 58.5	Pole	TP38.67x38.401x0.775	33	-34.439	5725.786	**	**
L34	58.5 - 58.25	Pole	TP38.724x38.67x0.775	34	-34.563	5733.924	**	**
L35	58.25 - 58	Pole	TP38.778x38.724x0.775	35	-34.670	5742.061	**	**
L36	58 - 57.75	Pole	TP38.832x38.778x0.613	36	-34.772	4563.919	**	**
L37	57.75 - 56.75	Pole	TP39.047x38.832x0.613	37	-35.167	4589.644	**	**
L38	56.75 - 56.5	Pole	TP39.101x39.047x0.738	38	-35.291	5516.080	**	**
L39	56.5 - 51.5	Pole	TP40.178x39.101x0.725	39	-37.474	5576.602	**	**
L40	51.5 - 42.0418	Pole	TP42.216x40.178x0.713	40	-39.110	5592.384	**	**
L41	42.0418 - 41.0418	Pole	TP41.678x40.221x0.788	41	-44.446	6278.013	**	**
L42	41.0418 - 36.0418	Pole	TP42.753x41.678x0.788	42	-46.876	6443.031	**	**
L43	36.0418 - 31.25	Pole	TP43.783x42.753x0.763	43	-49.236	6395.329	**	**
L44	31.25 - 31	Pole	TP43.836x43.783x0.65	44	-49.374	5472.820	**	**
L45	31 - 27.75	Pole	TP44.535x43.836x0.65	45	-50.958	5561.356	**	**
L46	27.75 - 27.5	Pole	TP44.589x44.535x0.65	46	-51.098	5568.171	**	**
L47	27.5 - 27.25	Pole	TP44.642x44.589x0.65	47	-51.222	5574.975	**	**
L48	27.25 - 27	Pole	TP44.696x44.642x0.725	48	-51.346	6215.244	**	**
L49	27 - 22	Pole	TP45.771x44.696x0.713	49	-53.806	6259.113	**	**
L50	22 - 17	Pole	TP46.846x45.771x0.713	50	-56.312	6408.412	**	**
L51	17 - 12	Pole	TP47.921x46.846x0.713	51	-58.849	6557.712	**	**
L52	12 - 7	Pole	TP48.995x47.921x0.713	52	-61.417	6707.022	**	**
L53	7 - 2	Pole	TP50.07x48.995x0.7	53	-64.018	6737.734	**	**
L54	2 - 0	Pole	TP50.5x50.07x0.7	54	-65.070	6796.408	**	**
							Summary	
						Pole (L10)	**	**
						RATING =	**	**

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

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 881533

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 881533

Work Order: 1957176

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	144.5	26.9323	3.8411	18	21	26.8823	0.1875	Auto	A572-65
2	121.4088	34.291	4.625	18	25.67	32.9971	0.25	Auto	A572-65
3	91.7428	49.701	5.776	18	31.51	42.2155	0.375	Auto	A572-65
4	47.8178	47.8178	0	18	40.22	50.5	0.4375	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	91.48	98.5	plate	CCI-SFP-045100	3		E3						E3						E3				
2	0	31.25	plate	CCI-WSFP-085125	3		E4								E4						E4		
3	31.25	60	plate	CCI-SFP-065125	3				E4						E4						E4		
4	60	77.25	plate	CCI-SFP-065125	3				E4						E4						E4		
5	91.48	103.5	plate	CCI-SFP-045100	3			E4						E4						E4			
6	77	83	plate	CCI-SFP-060100	3		E5						E5						E5				
7	103.5	112.583	plate	CCI-SFP-045100	3						E5						E5						E5
8	0	27.75	plate	WCFP-5.5x1.25	2					E6							E6						
9	0	27.25	plate	CCI-WSFP-065125	1															E6			
10	31.25	58.5	plate	CCI-SFP-085125	1							E6											
11	97.58	106.92	plate	CCI-SFP-040075	3	E6						E6						E6					
12	27.25	56.75	plate	CCI-SFP-065125	1													E7					
13	58	69	plate	CCI-SFP-060100	3						E7						E7						E7
14																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
2	8.5	1.25	10.625	0.625	Welded	n/a	PC 8.8 - M20 (100)	45.000	17.000	9.063	1.1875	A572-65
3	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
4	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
5	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
6	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
7	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
8	5.5	1.25	6.875	0.625	Welded	n/a	PC 8.8 - M20 (100)	27.000	21.000	5.313	1.1875	A572-65
9	6.5	1.25	8.125	0.625	Welded	n/a	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
10	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	45	PC 8.8 - M20 (100)	45.000	17.000	9.063	1.1875	A572-65
11	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.000	2.063	1.1875	A572-65
12	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
13	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
WCFP-5.5x1.25	Top	9	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	CJP Groove	5.5	1.25	45	0.25	-	-	-

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	144.5 - 139.5	5		18	21.000	22.092	0.1875	A572-65	1.000
2	139.5 - 134.5	5		18	22.092	23.184	0.1875	A572-65	1.000
3	134.5 - 129.5	5		18	23.184	24.276	0.1875	A572-65	1.000
4	129.5 - 124.5	5		18	24.276	25.368	0.1875	A572-65	1.000
5	124.5 - 121.4088	6.9323	3.8411	18	25.368	26.882	0.1875	A572-65	1.000
6	121.4088 - 116.4088	5		18	25.668	26.737	0.25	A572-65	1.000
7	116.4088 - 112.583	3.8258		18	26.737	27.555	0.25	A572-65	1.000
8	112.583 - 112.333	0.25		18	27.555	27.608	0.25	A572-65	1.000
9	112.333 - 107.333	5		18	27.608	28.677	0.25	A572-65	1.000
10	107.333 - 106.92	0.413		18	28.677	28.765	0.25	A572-65	1.000
11	106.92 - 106.67	0.25		18	28.765	28.818	0.5375	A572-65	0.936
12	106.67 - 103.5	3.17		18	28.818	29.496	0.525	A572-65	0.947
13	103.5 - 103.25	0.25		18	29.496	29.549	0.525	A572-65	0.946
14	103.25 - 98.5	4.75		18	29.549	30.564	0.5125	A572-65	0.952
15	98.5 - 98.25	0.25		18	30.564	30.618	0.675	A572-65	0.937
16	98.25 - 97.58	0.67		18	30.618	30.761	0.675	A572-65	0.934
17	97.58 - 97.33	0.25		18	30.761	30.815	0.5625	A572-65	0.949
18	97.33 - 92.33	5		18	30.815	31.883	0.55	A572-65	0.953
19	92.33 - 91.7428	5.2122	4.625	18	31.883	32.997	0.55	A572-65	0.951
20	91.7428 - 86.1178	5.625		18	31.509	32.720	0.375	A572-65	1.000
21	86.1178 - 83	3.1178		18	32.720	33.392	0.375	A572-65	1.000
22	83 - 82.75	0.25		18	33.392	33.446	0.375	A572-65	1.000
23	82.75 - 77.75	5		18	33.446	34.523	0.375	A572-65	1.000
24	77.75 - 77.25	0.5		18	34.523	34.631	0.375	A572-65	1.000
25	77.25 - 77	0.25		18	34.631	34.685	0.825	A572-65	0.939
26	77 - 76.75	0.25		18	34.685	34.738	0.6375	A572-65	0.946
27	76.75 - 71.75	5		18	34.738	35.816	0.625	A572-65	0.953
28	71.75 - 69	2.75		18	35.816	36.408	0.625	A572-65	0.948
29	69 - 68.75	0.25		18	36.408	36.462	0.8	A572-65	0.942
30	68.75 - 63.75	5		18	36.462	37.539	0.7875	A572-65	0.943
31	63.75 - 60	3.75		18	37.539	38.347	0.775	A572-65	0.948
32	60 - 59.75	0.25		18	38.347	38.401	0.775	A572-65	0.947
33	59.75 - 58.5	1.25		18	38.401	38.670	0.775	A572-65	0.944
34	58.5 - 58.25	0.25		18	38.670	38.724	0.775	A572-65	0.943
35	58.25 - 58	0.25		18	38.724	38.778	0.775	A572-65	0.942
36	58 - 57.75	0.25		18	38.778	38.832	0.6125	A572-65	1.087
37	57.75 - 56.75	1		18	38.832	39.047	0.6125	A572-65	1.084
38	56.75 - 56.5	0.25		18	39.047	39.101	0.7375	A572-65	0.994
39	56.5 - 51.5	5		18	39.101	40.178	0.725	A572-65	0.997
40	51.5 - 47.8178	9.4582	5.776	18	40.178	42.216	0.7125	A572-65	1.004
41	47.8178 - 41.0418	6.776		18	40.221	41.678	0.7875	A572-65	0.982
42	41.0418 - 36.0418	5		18	41.678	42.753	0.7875	A572-65	0.971
43	36.0418 - 31.25	4.7918		18	42.753	43.783	0.7625	A572-65	0.992
44	31.25 - 31	0.25		18	43.783	43.836	0.65	A572-65	1.125
45	31 - 27.75	3.25		18	43.836	44.535	0.65	A572-65	1.118
46	27.75 - 27.5	0.25		18	44.535	44.589	0.65	A572-65	1.118
47	27.5 - 27.25	0.25		18	44.589	44.642	0.65	A572-65	1.117
48	27.25 - 27	0.25		18	44.642	44.696	0.725	A572-65	1.003
49	27 - 22	5		18	44.696	45.771	0.7125	A572-65	1.010
50	22 - 17	5		18	45.771	46.846	0.7125	A572-65	1.001
51	17 - 12	5		18	46.846	47.921	0.7125	A572-65	0.992
52	12 - 7	5		18	47.921	48.995	0.7125	A572-65	0.984
53	7 - 2	5		18	48.995	50.070	0.7	A572-65	0.993
54	2 - 0	2		18	50.070	50.500	0.7	A572-65	0.990

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	144.5 - 139.5	4.20	84.21	12.14
2	139.5 - 134.5	7.10	149.19	18.64
3	134.5 - 129.5	7.84	243.71	19.43
4	129.5 - 124.5	11.53	361.98	25.61
5	124.5 - 121.4088	11.94	441.56	25.89
6	121.4088 - 116.4088	14.88	578.45	30.28
7	116.4088 - 112.583	15.53	694.92	30.63
8	112.583 - 112.333	15.60	702.58	30.64
9	112.333 - 107.333	16.94	856.88	31.96
10	107.333 - 106.92	17.03	870.08	31.99
11	106.92 - 106.67	17.11	878.07	32.02
12	106.67 - 103.5	17.89	980.09	32.37
13	103.5 - 103.25	17.96	988.18	32.39
14	103.25 - 98.5	20.66	1155.10	35.55
15	98.5 - 98.25	20.76	1163.98	35.58
16	98.25 - 97.58	20.96	1187.84	35.65
17	97.58 - 97.33	21.04	1196.75	35.68
18	97.33 - 92.33	22.43	1376.49	36.24
19	92.33 - 91.7428	22.60	1397.78	36.30
20	91.7428 - 86.1178	24.82	1603.96	37.01
21	86.1178 - 83	25.62	1719.72	37.29
22	83 - 82.75	25.70	1729.04	37.30
23	82.75 - 77.75	26.99	1916.59	37.75
24	77.75 - 77.25	27.14	1935.47	37.79
25	77.25 - 77	27.25	1944.92	37.81
26	77 - 76.75	27.33	1954.37	37.84
27	76.75 - 71.75	29.04	2144.90	38.39
28	71.75 - 69	29.99	2250.86	38.70
29	69 - 68.75	30.12	2260.53	38.72
30	68.75 - 63.75	32.20	2455.54	39.31
31	63.75 - 60	33.79	2603.72	39.75
32	60 - 59.75	33.92	2613.65	39.77
33	59.75 - 58.5	34.44	2663.44	39.92
34	58.5 - 58.25	34.56	2673.42	39.94
35	58.25 - 58	34.67	2683.41	39.97
36	58 - 57.75	34.77	2693.40	39.99
37	57.75 - 56.75	35.17	2733.44	40.11
38	56.75 - 56.5	35.29	2743.47	40.13
39	56.5 - 51.5	37.47	2945.48	40.70
40	51.5 - 47.8178	39.11	3096.01	41.10
41	47.8178 - 41.0418	44.45	3377.54	42.00
42	41.0418 - 36.0418	46.88	3588.75	42.52
43	36.0418 - 31.25	49.24	3793.53	42.99
44	31.25 - 31	49.37	3804.27	43.00
45	31 - 27.75	50.96	3944.47	43.30
46	27.75 - 27.5	51.10	3955.29	43.31
47	27.5 - 27.25	51.22	3966.12	43.33
48	27.25 - 27	51.35	3976.95	43.35
49	27 - 22	53.81	4194.78	43.80
50	22 - 17	56.31	4414.72	44.21
51	17 - 12	58.85	4636.61	44.59
52	12 - 7	61.42	4860.38	44.96
53	7 - 2	64.02	5086.01	45.33
54	2 - 0	65.07	5176.77	45.48

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
144.5 - 139.5	Pole	TP22.092x21x0.1875	Pole	20.3%	Pass
139.5 - 134.5	Pole	TP23.184x22.092x0.1875	Pole	33.2%	Pass
134.5 - 129.5	Pole	TP24.276x23.184x0.1875	Pole	49.5%	Pass
129.5 - 124.5	Pole	TP25.368x24.276x0.1875	Pole	68.5%	Pass
124.5 - 121.41	Pole	TP26.882x25.368x0.1875	Pole	79.6%	Pass
121.41 - 116.41	Pole	TP26.737x25.668x0.25	Pole	68.5%	Pass
116.41 - 112.58	Pole	TP27.555x26.737x0.25	Pole	77.8%	Pass
112.58 - 112.33	Pole	TP27.608x27.555x0.25	Pole	78.4%	Pass
112.33 - 107.33	Pole	TP28.677x27.608x0.25	Pole	89.3%	Pass
107.33 - 106.92	Pole	TP28.765x28.677x0.25	Pole	90.2%	Pass
106.92 - 106.67	Pole + Reinf.	TP28.818x28.765x0.5375	Reinf. 11 Tension Rupture	75.1%	Pass
106.67 - 103.5	Pole + Reinf.	TP29.496x28.818x0.525	Reinf. 11 Tension Rupture	81.0%	Pass
103.5 - 103.25	Pole + Reinf.	TP29.549x29.496x0.525	Reinf. 11 Tension Rupture	81.4%	Pass
103.25 - 98.5	Pole + Reinf.	TP30.564x29.549x0.5125	Reinf. 11 Tension Rupture	90.5%	Pass
98.5 - 98.25	Pole + Reinf.	TP30.618x30.564x0.675	Reinf. 11 Tension Rupture	69.8%	Pass
98.25 - 97.58	Pole + Reinf.	TP30.761x30.618x0.675	Reinf. 11 Tension Rupture	70.8%	Pass
97.58 - 97.33	Pole + Reinf.	TP30.815x30.761x0.5625	Reinf. 1 Tension Rupture	80.5%	Pass
97.33 - 92.33	Pole + Reinf.	TP31.883x30.815x0.55	Reinf. 1 Tension Rupture	88.1%	Pass
92.33 - 91.74	Pole + Reinf.	TP32.997x31.883x0.55	Reinf. 1 Tension Rupture	88.9%	Pass
91.74 - 86.12	Pole	TP32.72x31.509x0.375	Pole	81.9%	Pass
86.12 - 83	Pole	TP33.392x32.72x0.375	Pole	84.2%	Pass
83 - 82.75	Pole	TP33.446x33.392x0.375	Pole	84.4%	Pass
82.75 - 77.75	Pole	TP34.523x33.446x0.375	Pole	87.7%	Pass
77.75 - 77.25	Pole	TP34.631x34.523x0.375	Pole	88.0%	Pass
77.25 - 77	Pole + Reinf.	TP34.685x34.631x0.825	Reinf. 6 Tension Rupture	65.1%	Pass
77 - 76.75	Pole + Reinf.	TP34.738x34.685x0.6375	Reinf. 4 Tension Rupture	83.0%	Pass
76.75 - 71.75	Pole + Reinf.	TP35.816x34.738x0.625	Reinf. 4 Tension Rupture	86.6%	Pass
71.75 - 69	Pole + Reinf.	TP36.408x35.816x0.625	Reinf. 4 Tension Rupture	88.5%	Pass
69 - 68.75	Pole + Reinf.	TP36.462x36.408x0.8	Reinf. 13 Tension Rupture	70.3%	Pass
68.75 - 63.75	Pole + Reinf.	TP37.539x36.462x0.7875	Reinf. 13 Tension Rupture	73.1%	Pass
63.75 - 60	Pole + Reinf.	TP38.347x37.539x0.775	Reinf. 13 Tension Rupture	75.1%	Pass
60 - 59.75	Pole + Reinf.	TP38.401x38.347x0.775	Reinf. 13 Tension Rupture	75.3%	Pass
59.75 - 58.5	Pole + Reinf.	TP38.67x38.401x0.775	Reinf. 13 Tension Rupture	75.9%	Pass
58.5 - 58.25	Pole + Reinf.	TP38.724x38.67x0.775	Reinf. 13 Tension Rupture	76.0%	Pass
58.25 - 58	Pole + Reinf.	TP38.778x38.724x0.775	Reinf. 13 Tension Rupture	76.1%	Pass
58 - 57.75	Pole + Reinf.	TP38.832x38.778x0.6125	Reinf. 3 Tension Rupture	86.8%	Pass
57.75 - 56.75	Pole + Reinf.	TP39.047x38.832x0.6125	Reinf. 3 Tension Rupture	87.3%	Pass
56.75 - 56.5	Pole + Reinf.	TP39.101x39.047x0.7375	Reinf. 3 Tension Rupture	79.3%	Pass
56.5 - 51.5	Pole + Reinf.	TP40.178x39.101x0.725	Reinf. 3 Tension Rupture	81.5%	Pass
51.5 - 47.82	Pole + Reinf.	TP42.216x40.178x0.7125	Reinf. 3 Tension Rupture	83.1%	Pass
47.82 - 41.04	Pole + Reinf.	TP41.678x40.221x0.7875	Reinf. 3 Tension Rupture	80.8%	Pass
41.04 - 36.04	Pole + Reinf.	TP42.753x41.678x0.7875	Reinf. 3 Tension Rupture	82.4%	Pass
36.04 - 31.25	Pole + Reinf.	TP43.783x42.753x0.7625	Reinf. 3 Tension Rupture	83.8%	Pass
31.25 - 31	Pole + Reinf.	TP43.836x43.783x0.65	Reinf. 2 Bolt Shear	82.5%	Pass
31 - 27.75	Pole + Reinf.	TP44.535x43.836x0.65	Reinf. 2 Compression	80.2%	Pass
27.75 - 27.5	Pole + Reinf.	TP44.589x44.535x0.65	Reinf. 2 Compression	80.2%	Pass
27.5 - 27.25	Pole + Reinf.	TP44.642x44.589x0.65	Reinf. 2 Compression	80.3%	Pass
27.25 - 27	Pole + Reinf.	TP44.696x44.642x0.725	Reinf. 2 Compression	81.9%	Pass
27 - 22	Pole + Reinf.	TP45.771x44.696x0.7125	Reinf. 2 Compression	83.0%	Pass
22 - 17	Pole + Reinf.	TP46.846x45.771x0.7125	Reinf. 2 Compression	84.1%	Pass
17 - 12	Pole + Reinf.	TP47.921x46.846x0.7125	Reinf. 2 Compression	85.1%	Pass
12 - 7	Pole + Reinf.	TP48.995x47.921x0.7125	Reinf. 2 Compression	86.0%	Pass
7 - 2	Pole + Reinf.	TP50.07x48.995x0.7	Reinf. 2 Compression	86.8%	Pass
2 - 0	Pole + Reinf.	TP50.5x50.07x0.7	Reinf. 2 Compression	87.1%	Pass
				Summary	
			Pole	90.2%	Pass
			Reinforcement	90.5%	Pass
			Overall	90.5%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity*												
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13
144.5 - 139.5	790	n/a	790	13.04	n/a	13.04	20.3%													
139.5 - 134.5	914	n/a	914	13.69	n/a	13.69	33.2%													
134.5 - 129.5	1051	n/a	1051	14.34	n/a	14.34	49.5%													
129.5 - 124.5	1200	n/a	1200	14.99	n/a	14.99	68.5%													
124.5 - 121.41	1299	n/a	1299	15.39	n/a	15.39	79.6%													
121.41 - 116.41	1862	n/a	1862	21.02	n/a	21.02	68.5%													
116.41 - 112.58	2040	n/a	2040	21.67	n/a	21.67	77.8%													
112.58 - 112.33	2052	n/a	2052	21.71	n/a	21.71	78.4%													
112.33 - 107.33	2302	n/a	2302	22.56	n/a	22.56	89.3%													
107.33 - 106.92	2324	n/a	2324	22.63	n/a	22.63	90.2%													
106.92 - 106.67	2337	2502	4839	22.67	22.50	45.17	43.1%							72.2%				75.1%		
106.67 - 103.5	2507	2617	5124	23.21	22.50	45.71	46.8%							77.7%				81.0%		
103.5 - 103.25	2521	2626	5146	23.25	22.50	45.75	47.1%					78.2%						81.4%		
103.25 - 98.5	2792	2803	5594	24.05	22.50	46.55	52.9%					86.9%						90.5%		
98.5 - 98.25	2807	4511	7318	24.10	36.00	60.10	40.9%	67.0%				67.0%						69.8%		
98.25 - 97.58	2846	4552	7398	24.21	36.00	60.21	41.5%	68.0%				68.0%						70.8%		
97.58 - 97.33	2861	3440	6301	24.25	27.00	51.25	49.2%	80.5%				80.5%								
97.33 - 92.33	3172	3673	6845	25.10	27.00	52.10	54.5%	88.1%				88.1%								
92.33 - 91.74	3210	3701	6911	25.20	27.00	52.20	55.1%	88.9%				88.9%								
91.74 - 86.12	5087	n/a	5087	38.50	n/a	38.50	81.9%													
86.12 - 83	5411	n/a	5411	39.30	n/a	39.30	84.2%													
83 - 82.75	5437	n/a	5437	39.36	n/a	39.36	84.4%													
82.75 - 77.75	5986	n/a	5986	40.64	n/a	40.64	87.7%													
77.75 - 77.25	6043	n/a	6043	40.77	n/a	40.77	88.0%													
77.25 - 77	6071	6872	12943	40.84	42.38	83.21	40.7%				64.3%		65.1%							
77 - 76.75	6100	3991	10091	40.90	24.38	65.27	52.5%				83.0%									
76.75 - 71.75	6692	4230	10922	42.18	24.38	66.56	54.9%				86.6%									
71.75 - 69	7033	4365	11398	42.89	24.38	67.26	56.3%				88.5%									
69 - 68.75	7064	7563	14627	42.95	42.38	85.33	44.1%				69.4%									70.3%
68.75 - 63.75	7716	7998	15714	44.23	42.38	86.61	46.3%				72.2%									73.1%
63.75 - 60	8230	8333	16563	45.19	42.38	87.57	47.8%				74.1%									75.1%
60 - 59.75	8265	8355	16621	45.26	42.38	87.63	47.9%			74.2%										75.3%
59.75 - 58.5	8442	8469	16911	45.58	42.38	87.95	48.4%			74.9%										75.9%
58.5 - 58.25	8478	8491	16969	45.64	42.38	88.02	48.5%			75.0%										76.0%
58.25 - 58	8514	8514	17028	45.71	42.38	88.08	48.6%			75.1%										76.1%
58 - 57.75	8571	5226	13797	45.77	35.00	80.77	63.0%			86.8%							61.7%			
57.75 - 56.75	8715	5281	13997	46.03	35.00	81.03	63.5%			87.3%							62.2%			
56.75 - 56.5	8809	7891	16700	46.09	43.13	89.22	54.6%			79.3%							62.3%		70.9%	
56.5 - 51.5	9562	8314	17876	47.37	43.13	90.50	56.6%			81.5%							64.3%		73.1%	
51.5 - 47.82	10144	8633	18776	48.32	43.13	91.44	58.1%			83.1%							65.7%		74.7%	
47.82 - 41.04	12369	9355	21724	57.27	43.13	100.39	53.8%			80.8%							65.2%		73.6%	
41.04 - 36.04	13359	9826	23185	58.76	43.13	101.88	55.2%			82.4%							66.7%		75.2%	
36.04 - 31.25	14356	10288	24645	60.19	43.13	103.31	56.5%			83.8%							70.7%		76.7%	
31.25 - 31	14751	6753	21504	60.26	40.00	100.26	69.1%		82.5%										77.7%	
31 - 27.75	15466	6968	22434	61.23	40.00	101.23	70.0%		80.2%										78.6%	
27.75 - 27.5	15522	6984	22506	61.31	40.00	101.31	70.0%		80.2%										78.6%	
27.5 - 27.25	15578	7001	22579	61.38	40.00	101.38	70.1%		80.3%										78.7%	
27.25 - 27	15256	9465	24721	61.46	40.00	101.46	59.4%		81.9%							79.2%				
27 - 22	16393	9909	26302	62.95	40.00	102.95	60.7%		83.0%							80.5%				
22 - 17	17556	10786	28342	64.44	40.00	104.44	61.0%		84.1%							81.6%				
17 - 12	18803	11269	30072	65.93	40.00	105.93	62.1%		85.1%							82.7%				
12 - 7	20108	11763	31871	67.43	40.00	107.43	63.2%		86.0%							83.7%				
7 - 2	21472	12268	33740	68.92	40.00	108.92	64.2%		86.8%							84.5%				
2 - 0	22035	12472	34507	69.52	40.00	109.52	64.6%		87.1%							84.9%				

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

PROJECT	**92739.018.01 - GROTON TOWER, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
DATE	**05/07/21**

v4.6.1

TIA-222 Rev.	H
Apply TIA-222-H Section 15.5?	Yes

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

Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	130.44	kips
AR Capacity	227.3	kips

Tower Type	Monopole	

Manufacturers Tower Prop.		
Pole Thickness	0.4375	in
Pole Grade	A572-65	
Fy	65	ksi
Fu	80	ksi
Base Plate Gr.	A572-60	
Fy	60	ksi
Fu	75	ksi

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

Anchor Rod Bracket Analysis Checks		
Tube Bearing	33.2%	-
Tube Compression	49.8%	-
Gusset Shear	11.5%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	28.9%	-
Welds: Gusset to Tube	37.2%	-
Welds: Geometry	N/A	
Tower Punching	12.5%	-
Tube Punching	9.9%	-
Utilization	**49.8%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	HSS4x4x1/2		FEXX	70	ksi
Width at Tube	2.75	in	Total Length	27	in	Weld Type	Double Fillet	
Height at Pole	30	in	Length above Gusset	3	in	Fillet Size	5/16	in
Height at Tube	24	in	Length below Gusset	0	in			
Grade	A572-65		Grade	A500 Grade B (Square)				
Fy	65	ksi	Fy	46	ksi			
Fu	80	ksi	Fu	58	ksi			

Weld - Gusset to Tower			Weld - Gusset to Base Plate		
FEXX	70	ksi	FEXX	70	ksi
Weld Type	Double Fillet		Weld Type	CJP - Double Bevel	
Fillet Size	5/16	in	Fillet Size	9/16	in
			Bevel Depth	9/16	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	Yes	
			Fillet Size	1/2	in

PROJECT	**92739.018.01 - GROTON TOWER, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
DATE	**05/07/21**
v4.6.1	

TIA-222 Rev.	H
Apply TIA-222-H Section 15.5?	Yes

B+T GRP
1717 S. Boulder, Suite 300
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Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	130.44	kips
AR Capacity	227.3	kips

Tower Type	Monopole	

Manufacturers Tower Prop.		
Pole Thickness	0.4375	in
Pole Grade	A572-65	
Fy	65	ksi
Fu	80	ksi
Base Plate Gr.	A572-60	
Fy	60	ksi
Fu	75	ksi

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

Anchor Rod Bracket Analysis Checks		
Tube Bearing	33.2%	-
Tube Compression	49.8%	-
Gusset Shear	11.5%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	27.4%	-
Welds: Gusset to Tube	37.2%	-
Welds: Geometry	N/A	
Tower Punching	15.8%	-
Tube Punching	9.9%	-
Utilization	**49.8%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	HSS4x4x1/2		FEXX	70	ksi
Width at Tube	4	in	Total Length	27	in	Weld Type	Double Fillet	
Height at Pole	30	in	Length above Gusset	3	in	Fillet Size	5/16	in
Height at Tube	24	in	Length below Gusset	0	in			
Grade	A572-65		Grade	A500 Grade B (Square)				
Fy	65	ksi	Fy	46	ksi			
Fu	80	ksi	Fu	58	ksi			

Weld - Gusset to Tower			Weld - Gusset to Base Plate		
FEXX	70	ksi	FEXX	70	ksi
Weld Type	Double Fillet		Weld Type	CJP - Double Bevel	
Fillet Size	5/16	in	Fillet Size	9/16	in
			Bevel Depth	9/16	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	Yes	
			Fillet Size	1/2	in

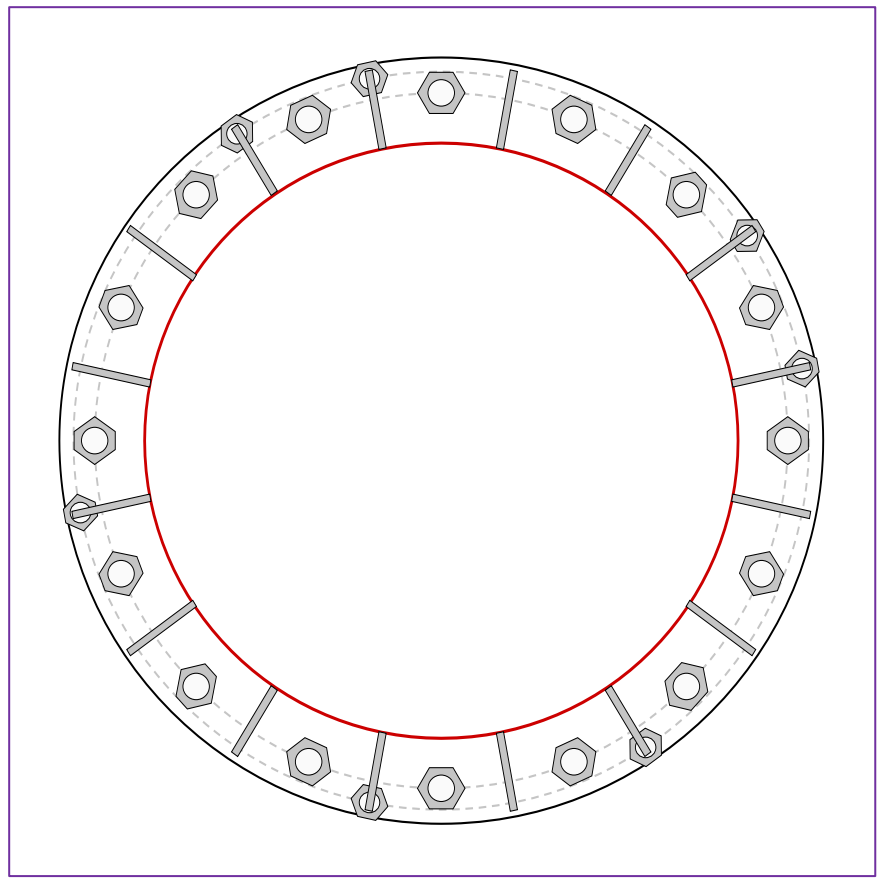
Monopole Base Plate Connection

Site Info	
BU #	881533
Site Name	GROTON TOWER, CT
Order #	552643, Rev. 0

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

Applied Loads	
Moment (kip-ft)	5176.77
Axial Force (kips)	65.07
Shear Force (kips)	45.48

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (16) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 59" BC

GROUP 2: (7) 1-3/4" ø bolts (F1554-105 N; Fy=105 ksi, Fu=125 ksi) on 62.61" BC

pos. (deg): 11.2, 33.8, 101.2, 123.8, 191.2, 258.8, 303.8

Base Plate Data

65" OD x 2" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

(16) 17.75"H x 6.75"W x 0.625"T, Notch: 0.75"

plate: Fy= 50 ksi ; weld: Fy= 70 ksi

horiz. weld: 0.625" fillet

vert. weld: 0.375" fillet

Pole Data

50.5" x 0.4375" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

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

GROUP 1:

Pu_t = 206.63	ϕPn_t = 243.75	**Stress Rating**
Vu = 2.84	ϕVn = 149.1	**80.7%**
Mu = n/a	ϕMn = n/a	**Pass**

GROUP 2:

Pu_t = 130.44	ϕPn_t = 178.13	**Stress Rating**
Vu = 0	ϕVn = 112.75	**69.7%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	36.18	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**63.8%**	**Pass**

Stiffener Summary

Horizontal Weld:	**68.4%**	**Pass**
Vertical Weld:	**44.9%**	**Pass**
Plate Flexure+Shear:	**26.1%**	**Pass**
Plate Tension+Shear:	**74.4%**	**Pass**
Plate Compression:	**79.3%**	**Pass**

Pole Summary

Punching Shear:	**11.4%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

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

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

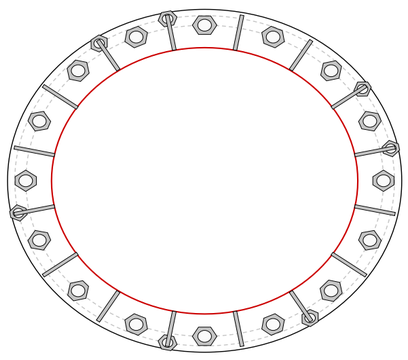
Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	l_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	2.25	A615-75	59	0.5	0	N-Included		No
2	1	22.5	2.25	A615-75	59	0.5	0	N-Included		No
3	1	45	2.25	A615-75	59	0.5	0	N-Included		No
4	1	67.5	2.25	A615-75	59	0.5	0	N-Included		No
5	1	90	2.25	A615-75	59	0.5	0	N-Included		No
6	1	112.5	2.25	A615-75	59	0.5	0	N-Included		No
7	1	135	2.25	A615-75	59	0.5	0	N-Included		No
8	1	157.5	2.25	A615-75	59	0.5	0	N-Included		No
9	1	180	2.25	A615-75	59	0.5	0	N-Included		No
10	1	202.5	2.25	A615-75	59	0.5	0	N-Included		No
11	1	225	2.25	A615-75	59	0.5	0	N-Included		No
12	1	247.5	2.25	A615-75	59	0.5	0	N-Included		No
13	1	270	2.25	A615-75	59	0.5	0	N-Included		No
14	1	292.5	2.25	A615-75	59	0.5	0	N-Included		No
15	1	315	2.25	A615-75	59	0.5	0	N-Included		No
16	1	337.5	2.25	A615-75	59	0.5	0	N-Included		No
17	2	11.25	1.75	F1554-105	62.61	0.5	0	N-Included		No
18	2	33.75	1.75	F1554-105	62.61	0.5	0	N-Included		No
19	2	101.25	1.75	F1554-105	62.61	0.5	0	N-Included		No
20	2	123.75	1.75	F1554-105	62.61	0.5	0	N-Included		No
21	2	191.25	1.75	F1554-105	62.61	0.5	0	N-Included		No
22	2	258.75	1.75	F1554-105	62.61	0.5	0	N-Included		No
23	2	303.75	1.75	F1554-105	62.61	0.5	0	N-Included		No

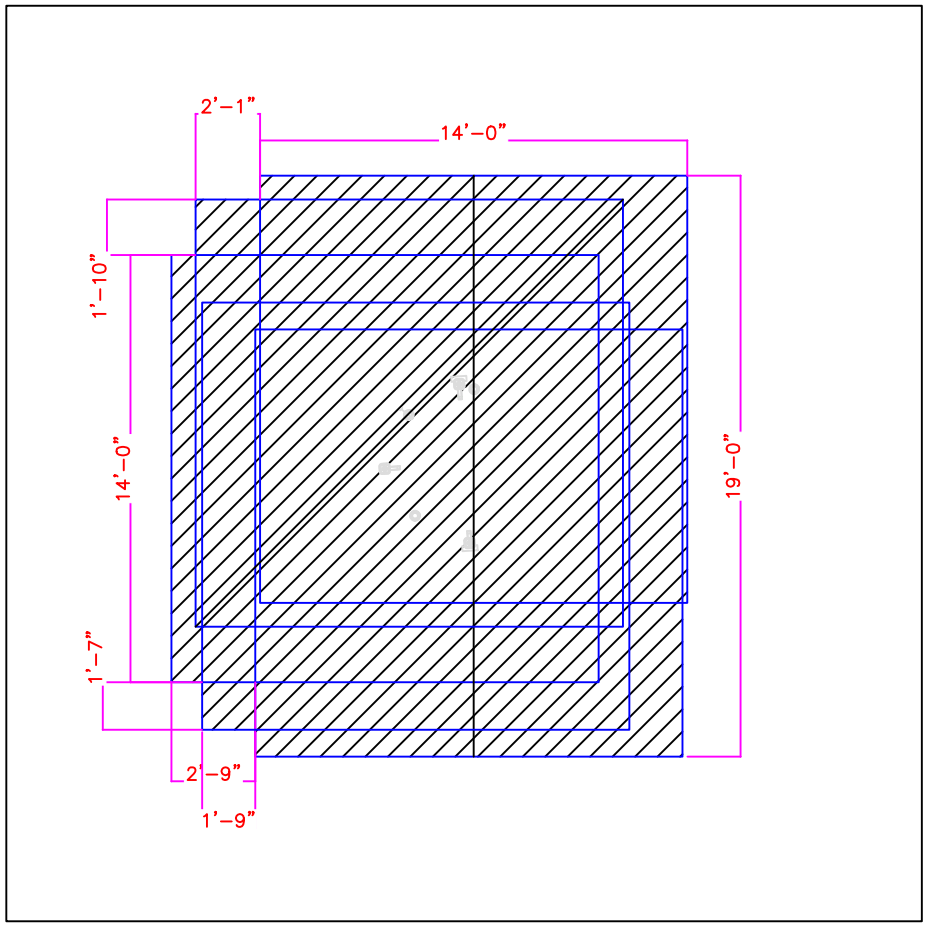
Custom Stiffener Connection

Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	11.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
2	1	33.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
3	1	56.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
4	1	78.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
5	1	101.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
6	1	123.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
7	1	146.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
8	1	168.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
9	1	191.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
10	1	213.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
11	1	236.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
12	1	258.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
13	1	281.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
14	1	303.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
15	1	326.25	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70
16	1	348.75	6.75	17.75	0.625	0.75	0.75	50	Fillet			0.625	0.375	70

Plot Graphic



Anco = 14'X19'+2.75'X14'+2.083'X1.83'+1.583'x1.75'
= 44795.83 in^2



Company:	B+T Group	Page:	1
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone I Fax:	918-587-4630 |	E-Mail:	
Design:	92739.018.01 - GROTON TOWER, CT	Date:	5/7/2021
Fastening point:			

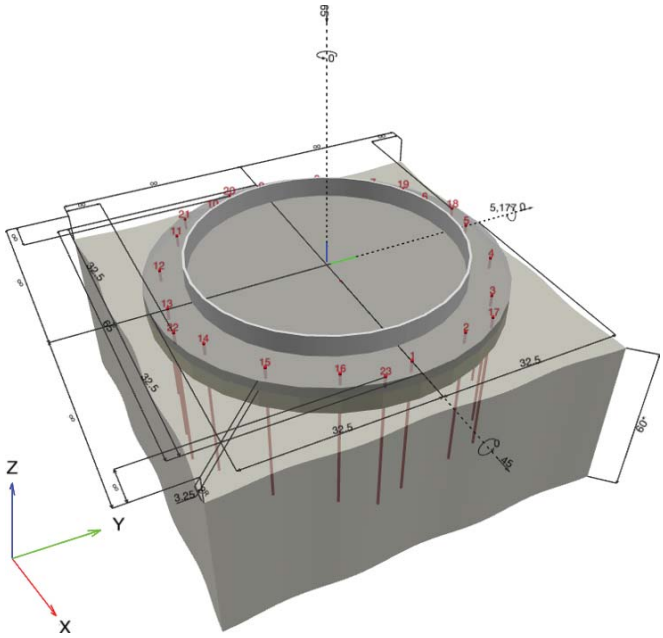
Specifier's comments:

1 Input data

Anchor type and diameter:	**Heavy Hex Head** 2.25 dia AR
Item number:	not available
Effective embedment depth:	h_{ef} = 56 in
Material:	ASTM F 1554
Evaluation Service Report:	Hilti Technical Data
Issued I Valid:	- | -
Proof:	Design Method ACI 318-14 / CIP
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 2.00; e_b = 3.250 in.; t = 2.000 in.
	Hilti Grout: CB-G EG, epoxy, $f_{c,Grout}$ = 14,939 psi
Anchor plate[R] :	l_x x l_y x t = 65.000 in. x 65.000 in. x 2.000 in.; (Recommended plate thickness: not calculated)
Profile:	Steel pipe, ; (L x W x T) = 50.500 in. x 50.500 in. x 0.437 in.
Base material:	cracked concrete, 4000, f_c' = 4,000 psi; h = 60.000 in.
Reinforcement:	tension: condition B, shear: condition B;
	edge reinforcement: none or < No. 4 bar

[R] - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [kip, ft.kip]

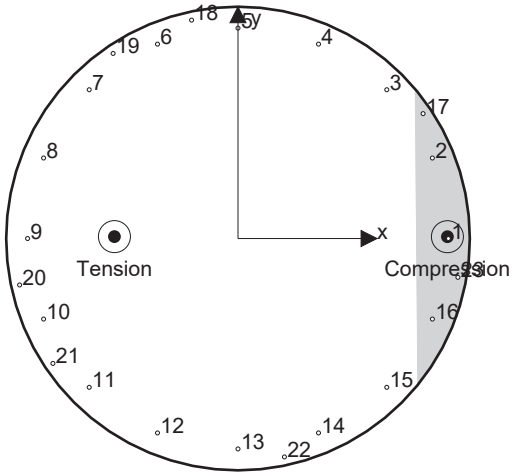


Company:	B+T Group	Page:	2
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone I Fax:	918-587-4630 |	E-Mail:	
Design:	92739.018.01 - GROTON TOWER, CT	Date:	5/7/2021
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = -65.000; V_x = 45.000; V_y = 0.000; M_x = 0.00000; M_y = 5,177.00000; M_z = 0.00000;	no	∞

2 Load case/Resulting anchor forces



Anchor reactions [kip]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	0.000	1.958	1.957	0.040
2	0.000	1.943	1.942	0.037
3	8.688	1.930	1.930	0.029
4	28.778	1.921	1.921	0.016
5	52.572	1.918	1.918	0.001
6	76.449	1.921	1.921	-0.014
7	96.774	1.930	1.930	-0.027
8	110.452	1.943	1.942	-0.035
9	115.401	1.958	1.957	-0.038
10	110.867	1.973	1.972	-0.035
11	97.542	1.985	1.985	-0.027
12	77.452	1.993	1.993	-0.014
13	53.658	1.996	1.996	0.001
14	29.782	1.993	1.993	0.016
15	9.456	1.985	1.985	0.029
16	0.000	1.973	1.972	0.037
17	0.000	1.935	1.934	0.035
18	66.297	1.917	1.917	-0.008
19	89.608	1.923	1.923	-0.022
20	117.885	1.966	1.966	-0.039
21	108.228	1.981	1.980	-0.033
22	39.934	1.998	1.998	0.010
23	0.000	1.965	1.965	0.042

max. concrete compressive strain:	3.76 [‰]
max. concrete compressive stress:	16,378 [psi]
resulting tension force in (x/y)=(-17.325/0.269):	1,289.823 [kip]
resulting compression force in (x/y)=(29.360/0.256):	1,354.823 [kip]

Anchor forces are calculated based on the assumption of a rigid anchor plate.

Company:	B+T Group	Page:	3
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone I Fax:	918-587-4630 |	E-Mail:	
Design:	92739.018.01 - GROTON TOWER, CT	Date:	5/7/2021
Fastening point:			

3 Tension load

	Load N_{ua} [kip]	Capacity ϕ N_n [kip]	Utilization $\beta_N = N_{ua}/\phi$ N_n	RevH
Steel Strength*	117.885	234.375	50.29%	47.9%
Concrete Breakout Failure**	1,289.823	1021.706	93.71%	89.25%

nended

Governing rating

3.1 Steel Strength

$N_{sa} = A_{se,N} f_{uta}$ ACI 318-14 Eq. (17.4.1.2)
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
2.5	125000

Calculations

N_{sa} [kip]
312.5

Results

N_{sa} [kip]	ϕ_{steel}	ϕ N_{sa} [kip]	N_{ua} [kip]
312.5	0.750	234.375	117.885

Company:	B+T Group	Page:	4
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone I Fax:	918-587-4630 |	E-Mail:	
Design:	92739.018.01 - GROTON TOWER, CT	Date:	5/7/2021
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ec,N}\ \psi_{ed,N}\ \psi_{c,N}\ \psi_{cp,N}\ N_b$ — ACI 318-14 Eq. (17.4.2.1b)

$\phi\ N_{cbg} \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9\ h_{ef}^2$ — ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2\ e'_N}{3\ h_{ef}}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.4)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.7b)

$N_b = 16\ \lambda_a\ \sqrt{f'_c}\ h_{ef}^{5/3}$ — ACI 318-14 Eq. (17.4.2.2b)

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
56	8.542	0.162	∞	1.000

c_{ac} [in.]	k_c	λ_a	f'_c [psi]
-	16	1.000	4,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
44795.83	28224	0.808	0.996	1.000	1.000	865.526

Results

N_{cbg} [kip]	$\phi_{concrete}$	$\phi\ N_{cbg}$ [kip]	N_{ua} [kip]
1459.58	0.700	1021.706	1,289.823

****Please Refer Excel tool for calculations**

Pier and Pad Foundation

BU # :	881533
Site Name:	GROTON TOWER
App. Number:	552643, Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp}:	65	kips
Base Shear, Vu_comp:	45	kips
Moment, M_u:	5177	ft-kips
Tower Height, **H**:	145	ft
BP Dist. Above Fdn, bp_{dist}:	3.25	in
Bolt Circle / Bearing Plate Width, **BC**:	59	in

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	256.61	45.00	**16.7%**	**Pass**
Bearing Pressure (ksf)	18.00	2.89	**16.0%**	**Pass**
*Overturning (kip*ft)*	9338.36	5414.19	**58.0%**	**Pass**
*Pad Flexure (kip*ft)*	8579.25	2452.60	**27.2%**	**Pass**
Pad Shear - 1-way (kips)	1861.32	254.10	**13.0%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.003	**1.3%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	8603.29	0.00	**0.0%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Soil Rating*:	**58.0%**
Structural Rating*:	**27.2%**

Pad Properties		
Depth, **D**:	5	ft
Pad Width, W_1:	30	ft
Pad Thickness, **T**:	5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	45	
Pad Clear Cover, cc_{pad}:	4	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δ**c**:	150	pcf

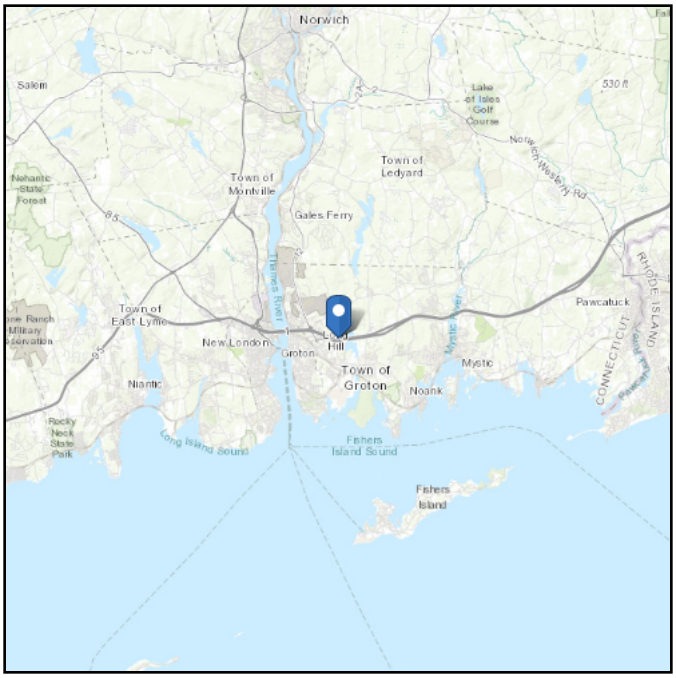
Soil Properties		
Total Soil Unit Weight, γ:	165	pcf
Ultimate Gross Bearing, Qult:	24.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	30	degrees
SPT Blow Count, N_{blows}:	0	
Base Friction, μ:		
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-10	**Elevation:**	128.26 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.360222
Soil Class:	D - Stiff Soil	**Longitude:**	-72.048639



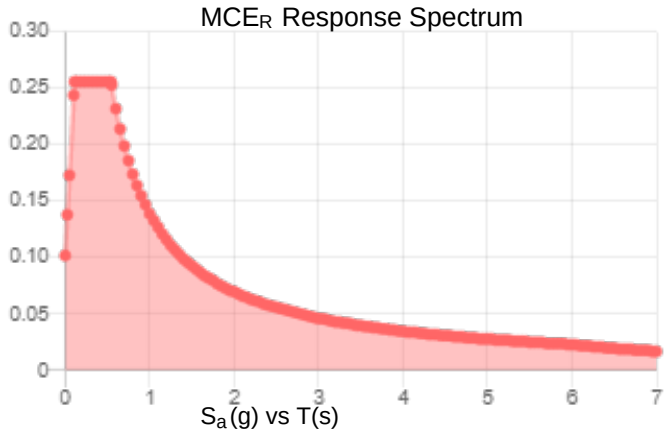
Seismic

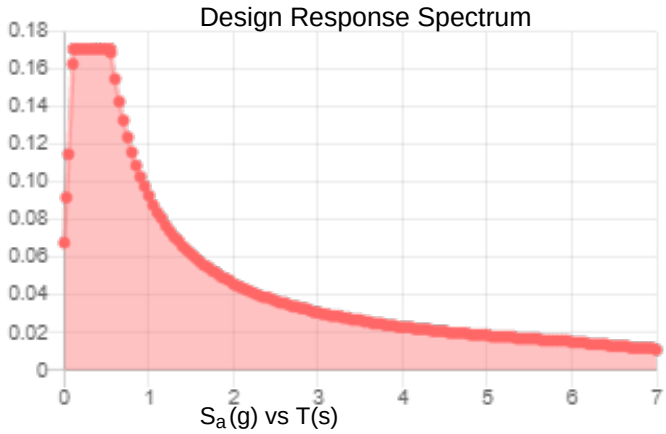
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.16	S_{DS} :	0.171
S_1 :	0.058	S_{D1} :	0.093
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.08
S_{MS} :	0.256	PGA_M :	0.128
S_{M1} :	0.139	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Wed Apr 28 2021

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Wed Apr 28 2021

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Exhibit E

Mount Analysis

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
peter.albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10044580
Maser Consulting Connecticut Project #: 21777231A

May 11, 2021

Site Information	*Site ID:*	*535824-VZW / GROTON 5 CT*
	Site Name:	*GROTON 5 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*75 Roberts Road* *Groton, Connecticut 06430* *New London County*
	Latitude:	*41.360222°*
	Longitude:	*-72.048639°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*10.83-Ft Platform*

FUZE ID # 16227586

Analysis Results

Platform: **71.4% Pass**

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

Report Prepared By: Andy Hanes

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 323995, dated February 5, 2021*
Mount Mapping Report	*Roaming Networks Inc., Site ID: CCI:881553, VZW:535824, dated March 30, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	127 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:	0.995
Seismic Parameters:	S_S:	0.189
	S_1:	0.052
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
134.50	135.00	6	JMA Wireless	MX06FRO660-02	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	RFS	DB-B1-6C-12AB-0Z	
		3	Andrew	LNX-6512DS-VTM	Retained

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 and field observations. 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 Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Connection	37.1%	Pass
Standoff	27.0%	Pass
Standoff Bracing	11.0%	Pass
Ladder	18.0%	Pass
Face Horizontal	71.4%	Pass
Mount Pipe	38.0%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**71.4%**

Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

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

Attachments:

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


03/26/2021 12:50:04
-72.04857597222222, 41.360264972222225
GROTON 5 CT


03/26/2021 15:52:20
-72.04859997222222, 41.360199
GROTON 5 CT

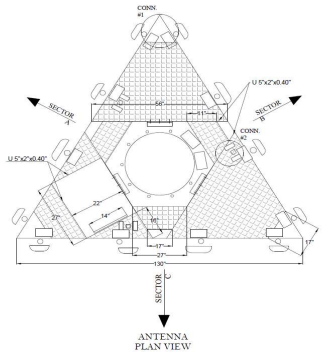
V3.0 Updated on 8-31-2020

PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1219825

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/30/2021
Site Name:	CCI:Groton Tower, VZW:GROTON 5 CT	**Tower Type:**	Monopole
Site Number or ID:	CCI:881533, VZW:535824	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	134.94



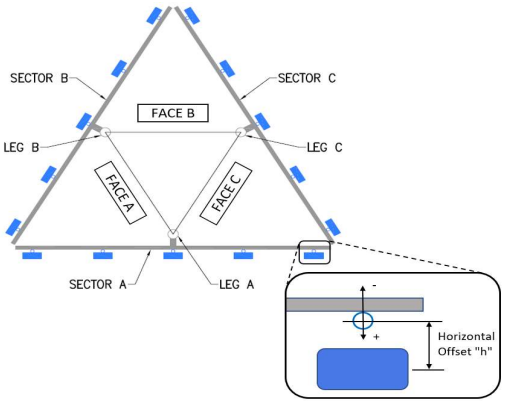
Mount Pipe Configuration and Geometries [Unit = Inches]

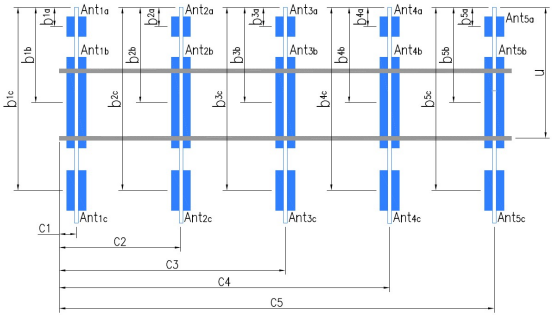
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	8.00	C1	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	8.00
A2	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	60.50	C2	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	60.50
A3	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	98.00	C3	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	98.00
A4	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	122.00	C4	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	122.00
A5				C5			
A6				C6			
B1	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	8.00	D1			
B2	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	60.50	D2			
B3	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	98.00	D3			
B4	PIPE 2.4"Ø X 0.15" X 102" LONG	47.00	122.00	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. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	5.1
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	5.96

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.):	22.3



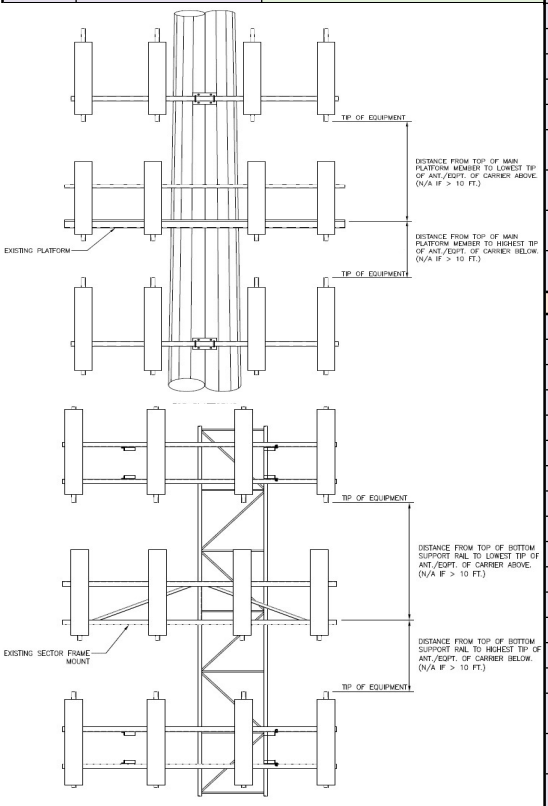


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}	HBXX-6517DS-A2M	12.00	6.53	75.03		135.19	44.00	7.00	24.00	165
Ant_{1b}	B66A RRH4x45	11.80	7.20	25.80		138.857				165
Ant_{1c}										
Ant_{2a}	QUAD656C0000G	20.50	7.20	74.40		135.773	37.00	11.00	24.00	165
Ant_{2b}	B13 RRH 4x30	12.00	9.00	21.60		138.857				165
Ant_{2c}										
Ant_{3a}	HBXX-6517DS-A2M	12.00	6.53	75.03		135.398	41.50	8.00	24.00	166
Ant_{3b}	B25 RRH 4x30	11.97	7.18	21.20		138.857				166
Ant_{3c}										
Ant_{4a}	LNX-6512DS-A1M	11.90	7.10	48.50		135.523	40.00	7.00	24.00	166
Ant_{4b}	B25 RRH 4x30	11.97	7.18	21.20		138.857				166
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.73	10.30	28.93						212
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	20.00	Deg	Leg A:	Deg
Sector B:	140.00	Deg	Leg B:	Deg
Sector C:	260.00	Deg	Leg C:	Deg
Sector D:		Deg	Leg D:	Deg

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



Sector B										
Ant_{1a}	HBXX-6517DS-A2M	12.00	6.53	75.03		135.19	44.00	7.00	133.00	176
Ant_{1b}	B66A RRH4x45	11.80	7.20	25.80		138.857				176
Ant_{1c}										
Ant_{2a}	QUAD656C0000G	20.50	7.20	74.40			37.00	11.00	133.00	176
Ant_{2b}	B13 RRH 4x30	12.00	9.00	21.60		138.857				176
Ant_{2c}										
Ant_{3a}	HBXX-6517DS-A2M	12.00	6.53	75.03		135.398	41.50	8.00	133.00	177
Ant_{3b}	B25 RRH 4x30	11.97	7.18	21.20		138.857				177
Ant_{3c}										
Ant_{4a}	LNX-6512DS-A1M	11.90	7.10	48.50		135.523	40.00	7.00	133.00	177
Ant_{4b}	B25 RRH 4x30	11.97	7.18	21.20		138.857				177
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}						#REF!				
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.73	10.30	28.93						212
Ant on Tower										
Sector C										
Ant_{1a}	HBXX-6517DS-A2M	12.00	6.53	75.03		135.19	44.00	7.00	264.00	185
Ant_{1b}	B66A RRH4x45	11.80	7.20	25.80		138.857				185
Ant_{1c}										
Ant_{2a}	QUAD656C0000G	20.50	7.20	74.40		135.773	37.00	11.00	264.00	185
Ant_{2b}	B13 RRH 4x30	12.00	9.00	21.60		138.857				185
Ant_{2c}										
Ant_{3a}	HBXX-6517DS-A2M	12.00	6.53	75.03		135.398	41.50	8.00	264.00	186
Ant_{3b}	B25 RRH 4x30	11.97	7.18	21.20		138.857				186
Ant_{3c}										
Ant_{4a}	LNX-6512DS-A1M	11.90	7.10	48.50		135.523	40.00	7.00	264.00	186
Ant_{4b}	B25 RRH 4x30	11.97	7.18	21.20		138.857				186
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.

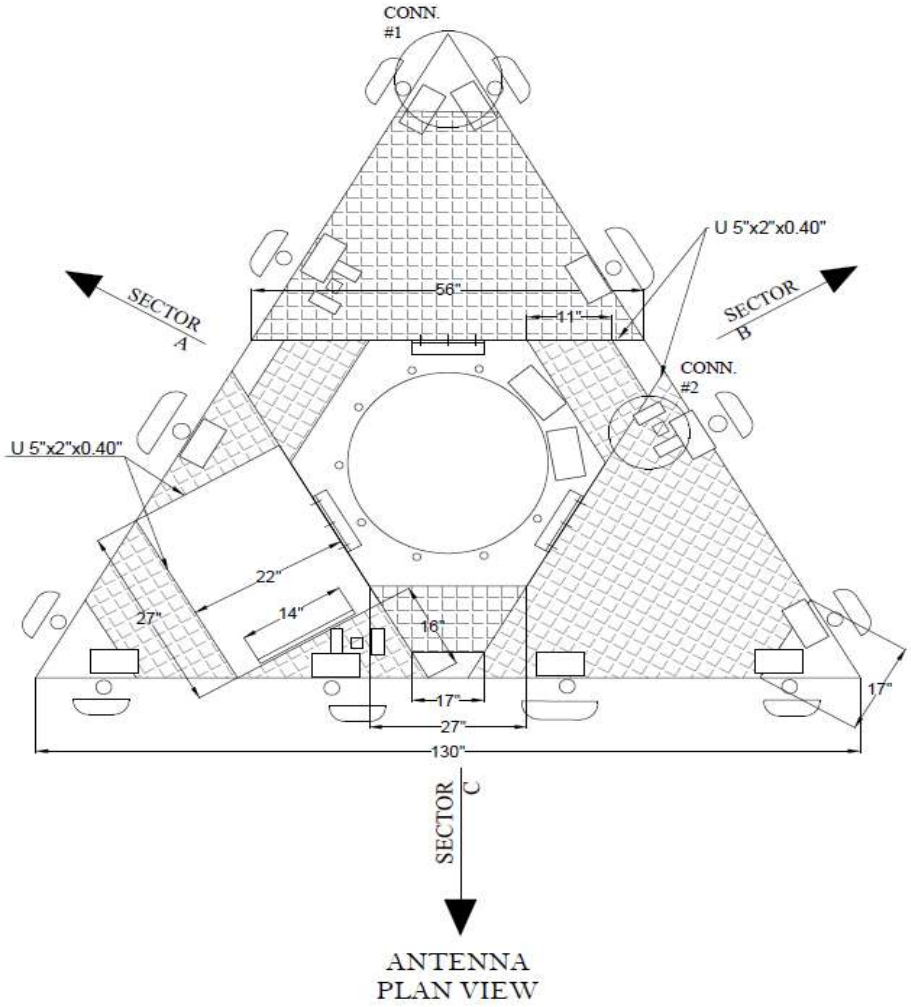
PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

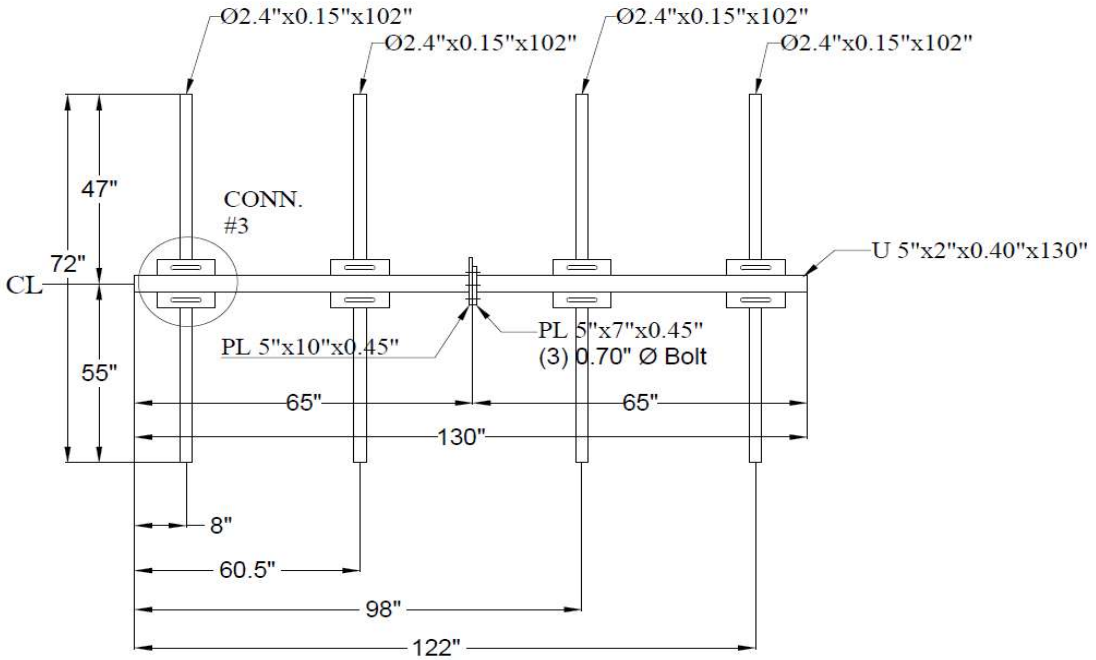
FCC # 1219825

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/30/2021
Site Name:	CCI:Groton Tower, VZW:GROTON 5 CT	**Tower Type:**	Monopole
Site Number or ID:	CCI:881533, VZW:535824	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	134.94

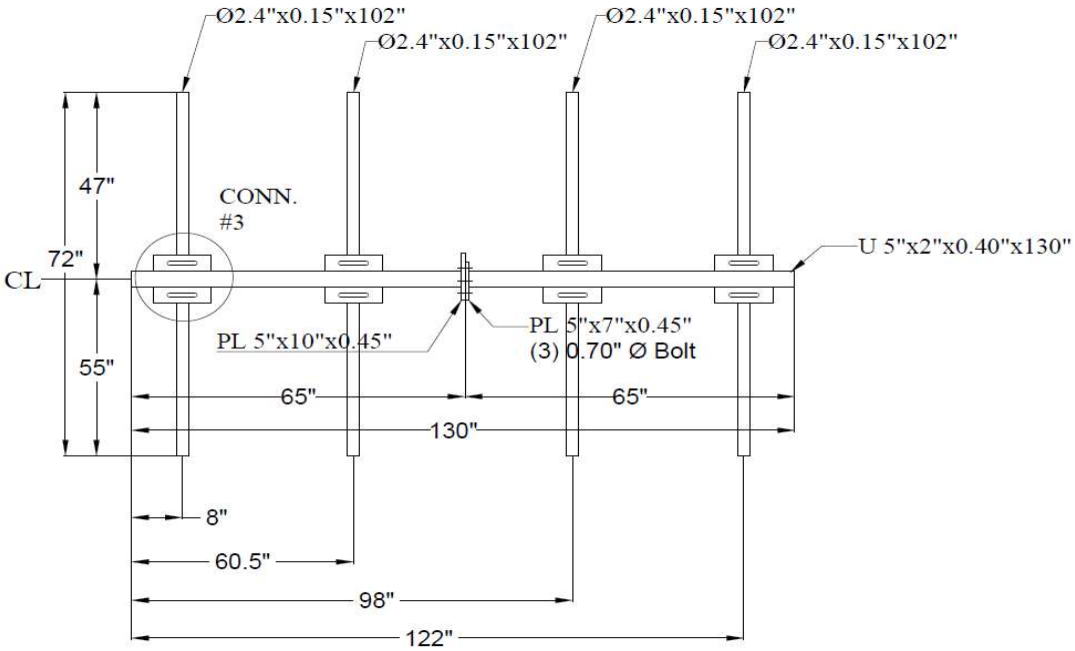
Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd

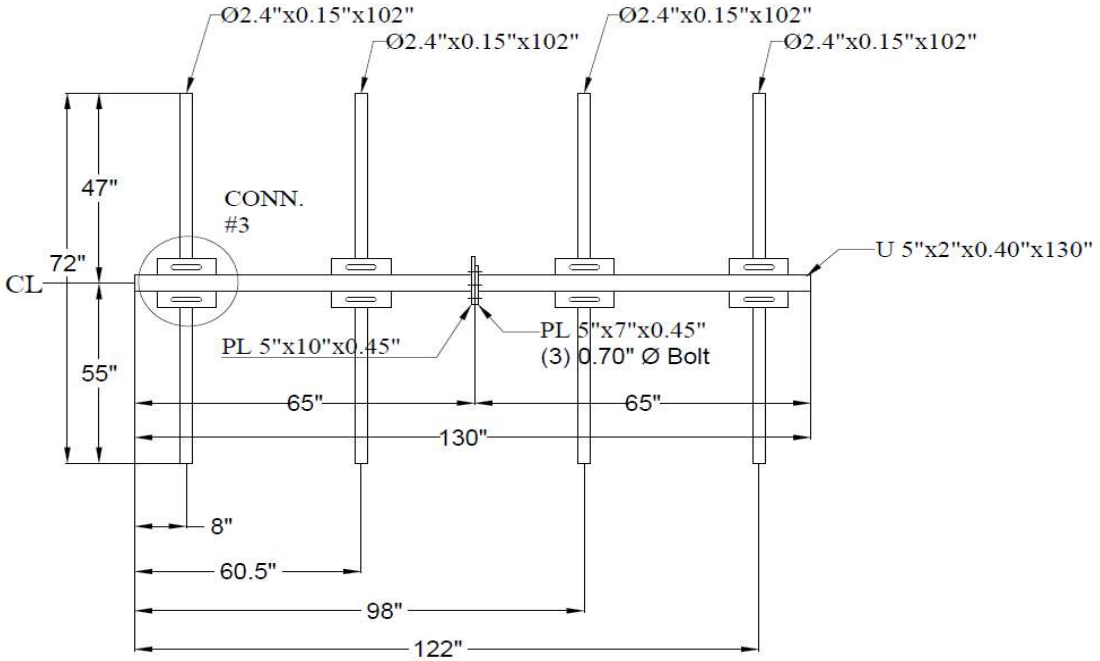


SECTOR A



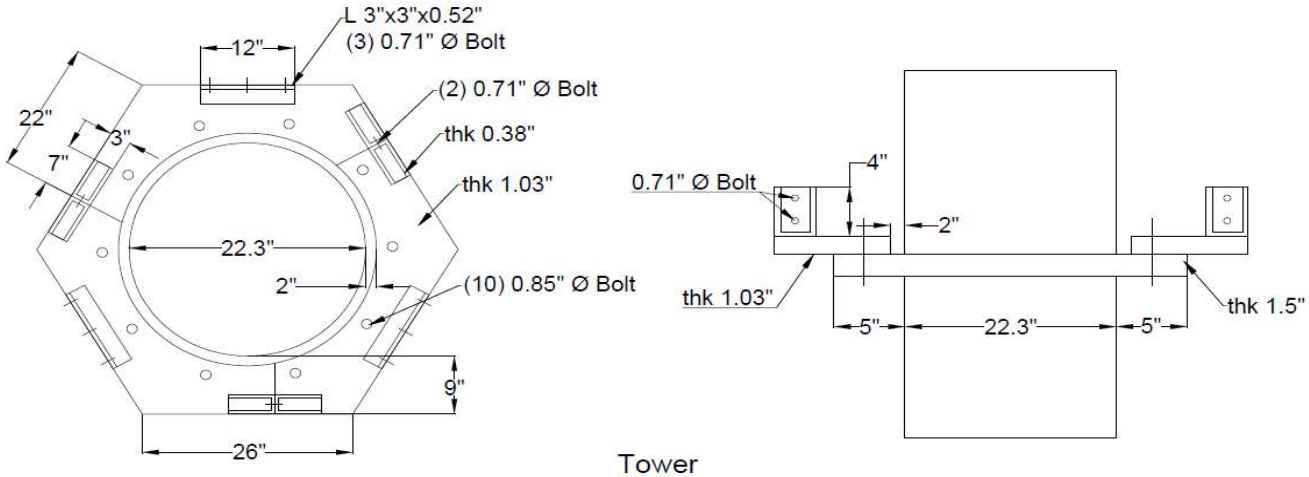
SECTOR B

Please Insert Sketches of the Antenna Mount, cont'd



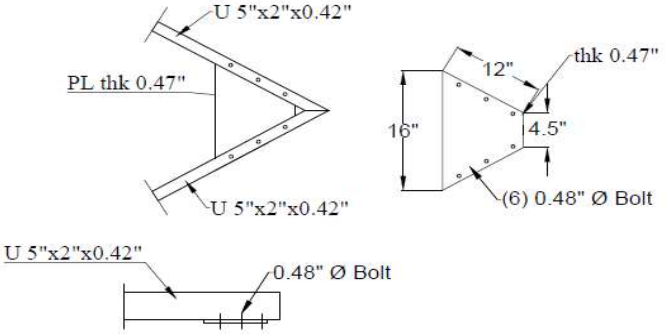
SECTOR C

Please Insert Sketches of the Antenna Mount, cont'd

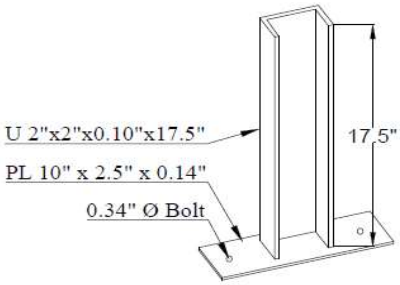


Tower Connection

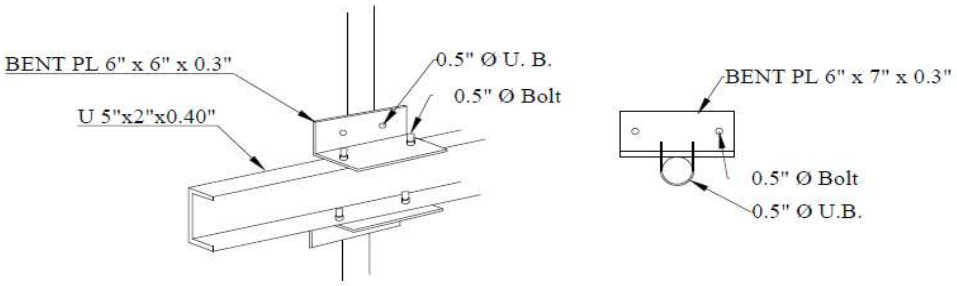
Please Insert Sketches of the Antenna Mount, cont'd



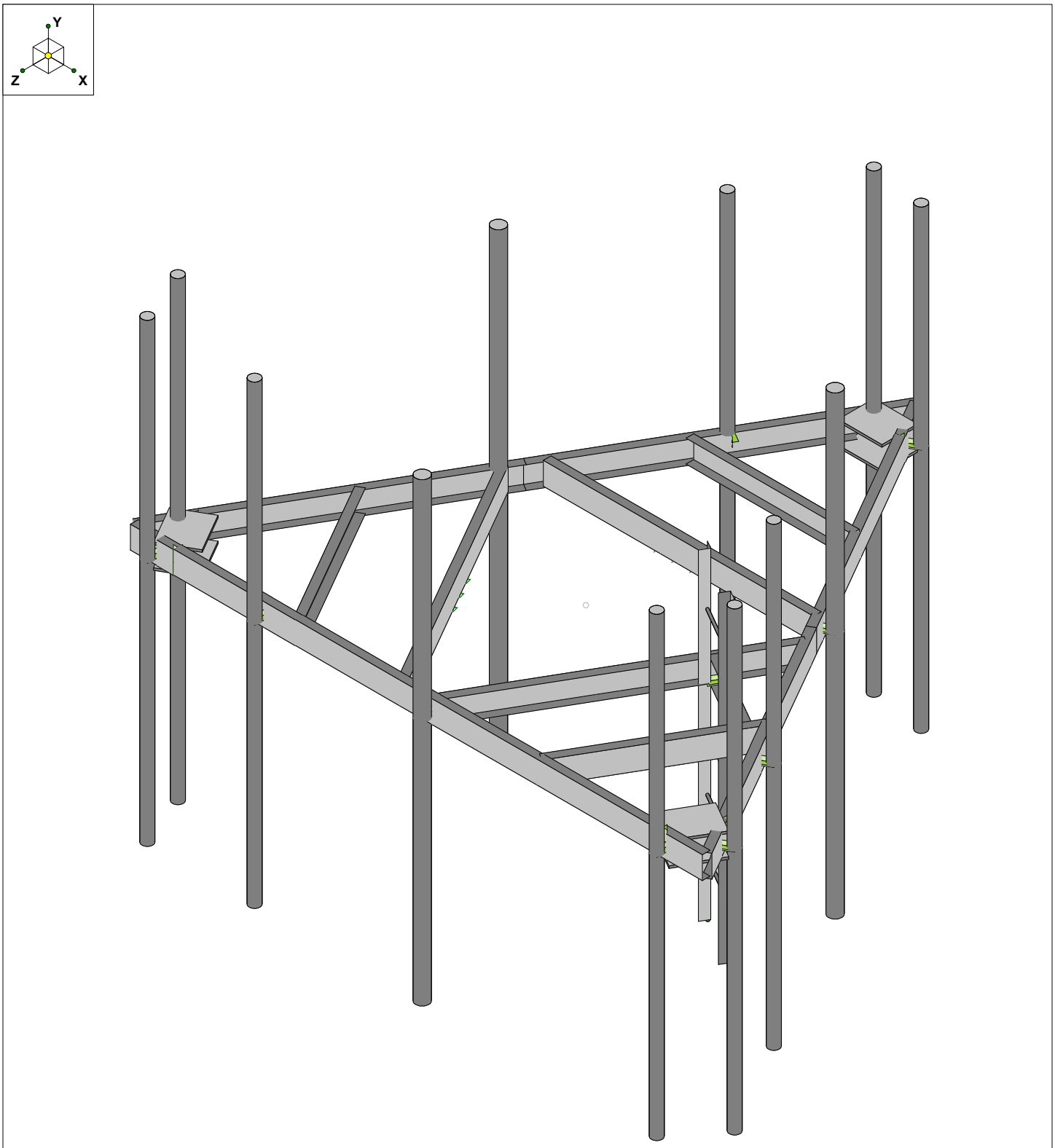
CONN. #1



CONN. #2

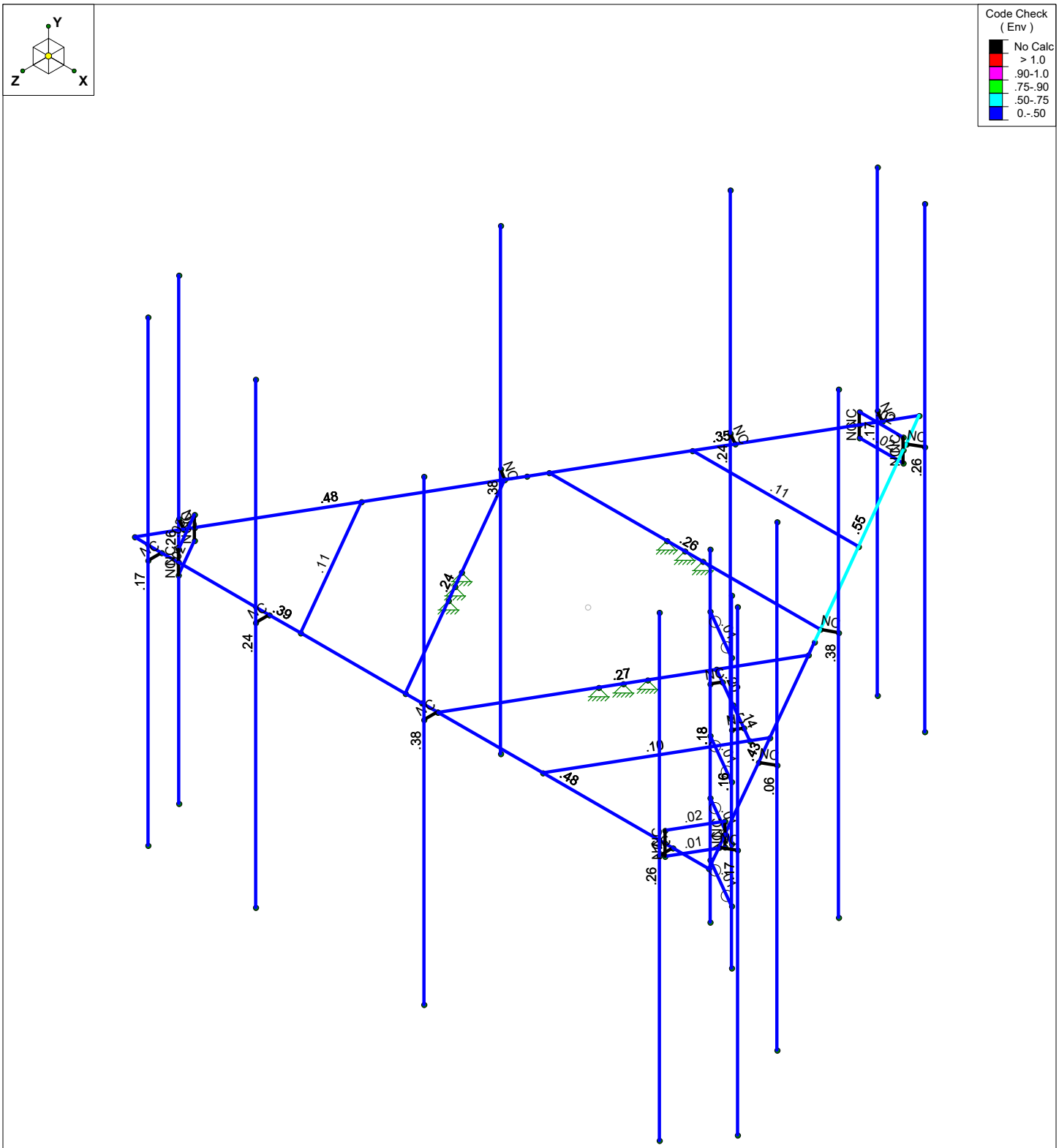


CONN. #3



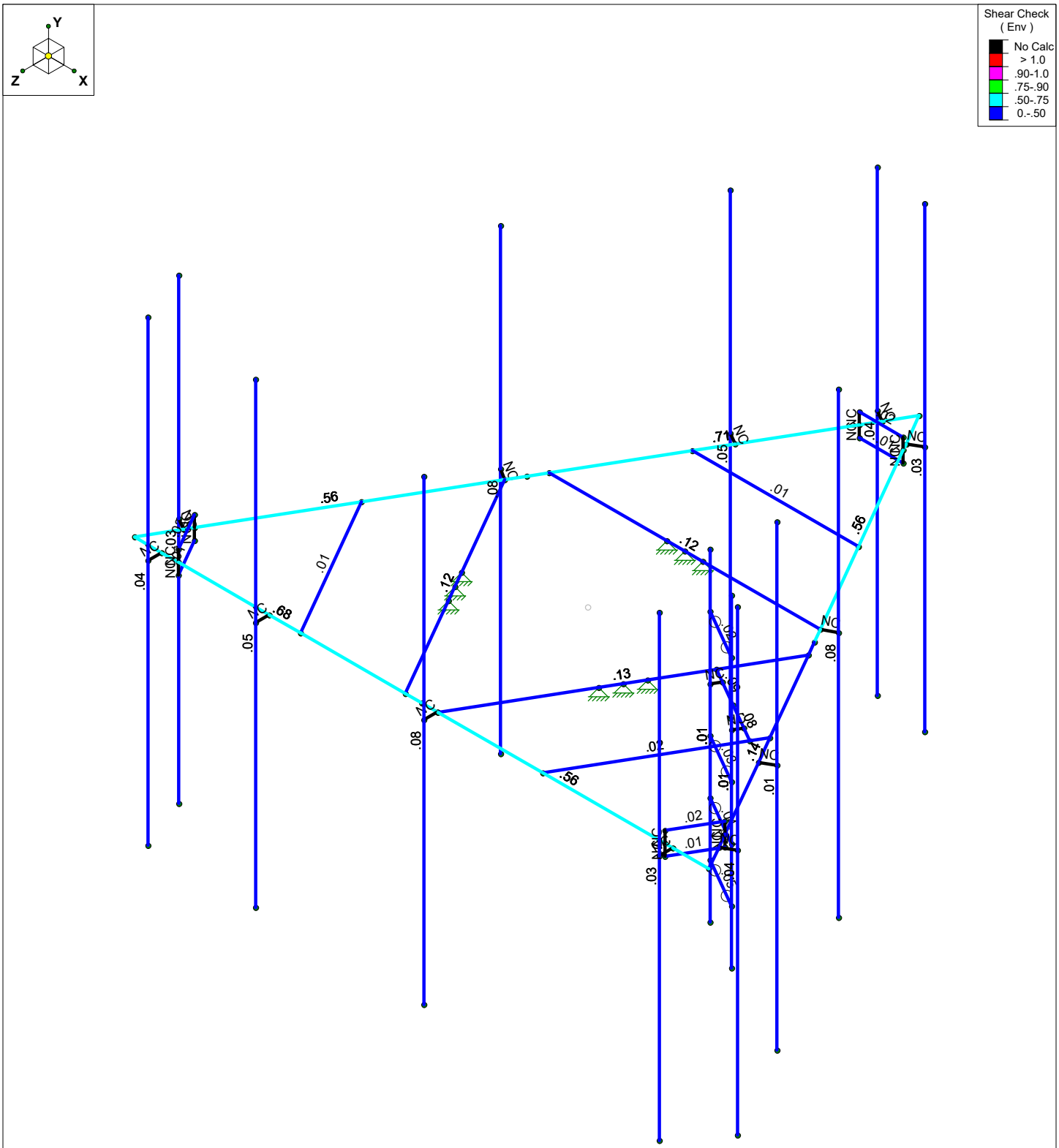
Envelope Only Solution

Maser Consulting	535824-VZW_MT_LO_H	SK - 1
AJH		May 11, 2021 at 6:18 PM
Project No. 10044580		535824-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	535824-VZW_MT_LO_H	SK - 2
AJH		May 11, 2021 at 6:19 PM
Project No. 10044580		535824-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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AJH		May 11, 2021 at 6:20 PM
Project No. 10044580		535824-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					96			
2	Antenna Di	None					96			
3	Antenna Wo (0 Deg)	None					96			
4	Antenna Wo (30 Deg)	None					96			
5	Antenna Wo (60 Deg)	None					96			
6	Antenna Wo (90 Deg)	None					96			
7	Antenna Wo (120 Deg)	None					96			
8	Antenna Wo (150 Deg)	None					96			
9	Antenna Wo (180 Deg)	None					96			
10	Antenna Wo (210 Deg)	None					96			
11	Antenna Wo (240 Deg)	None					96			
12	Antenna Wo (270 Deg)	None					96			
13	Antenna Wo (300 Deg)	None					96			
14	Antenna Wo (330 Deg)	None					96			
15	Antenna Wi (0 Deg)	None					96			
16	Antenna Wi (30 Deg)	None					96			
17	Antenna Wi (60 Deg)	None					96			
18	Antenna Wi (90 Deg)	None					96			
19	Antenna Wi (120 Deg)	None					96			
20	Antenna Wi (150 Deg)	None					96			
21	Antenna Wi (180 Deg)	None					96			
22	Antenna Wi (210 Deg)	None					96			
23	Antenna Wi (240 Deg)	None					96			
24	Antenna Wi (270 Deg)	None					96			
25	Antenna Wi (300 Deg)	None					96			
26	Antenna Wi (330 Deg)	None					96			
27	Antenna Wm (0 Deg)	None					96			
28	Antenna Wm (30 Deg)	None					96			
29	Antenna Wm (60 Deg)	None					96			
30	Antenna Wm (90 Deg)	None					96			
31	Antenna Wm (120 Deg)	None					96			
32	Antenna Wm (150 Deg)	None					96			
33	Antenna Wm (180 Deg)	None					96			
34	Antenna Wm (210 Deg)	None					96			
35	Antenna Wm (240 Deg)	None					96			
36	Antenna Wm (270 Deg)	None					96			
37	Antenna Wm (300 Deg)	None					96			
38	Antenna Wm (330 Deg)	None					96			
39	Structure D	None		-1					5	
40	Structure Di	None						38	5	
41	Structure Wo (0 Deg)	None						76		
42	Structure Wo (30 Deg)	None						76		
43	Structure Wo (60 Deg)	None						76		
44	Structure Wo (90 Deg)	None						76		
45	Structure Wo (120 D...	None						76		
46	Structure Wo (150 D...	None						76		
47	Structure Wo (180 D...	None						76		
48	Structure Wo (210 D...	None						76		
49	Structure Wo (240 D...	None						76		
50	Structure Wo (270 D...	None						76		
51	Structure Wo (300 D...	None						76		
52	Structure Wo (330 D...	None						76		
53	Structure Wi (0 Deg)	None						76		
54	Structure Wi (30 Deg)	None						76		
55	Structure Wi (60 Deg)	None						76		
56	Structure Wi (90 Deg)	None						76		

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						76		
58	Structure Wi (150 De...	None						76		
59	Structure Wi (180 De...	None						76		
60	Structure Wi (210 De...	None						76		
61	Structure Wi (240 De...	None						76		
62	Structure Wi (270 De...	None						76		
63	Structure Wi (300 De...	None						76		
64	Structure Wi (330 De...	None						76		
65	Structure Wm (0 Deg)	None						76		
66	Structure Wm (30 De...	None						76		
67	Structure Wm (60 De...	None						76		
68	Structure Wm (90 De...	None						76		
69	Structure Wm (120 D...	None						76		
70	Structure Wm (150 D...	None						76		
71	Structure Wm (180 D...	None						76		
72	Structure Wm (210 D...	None						76		
73	Structure Wm (240 D...	None						76		
74	Structure Wm (270 D...	None						76		
75	Structure Wm (300 D...	None						76		
76	Structure Wm (330 D...	None						76		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						71		
82	BLC 40 Transient Are...	None						71		

Load Combinations

	Description	Sol...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 D...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 ...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 ...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 ...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (12...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (15...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (18...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (21...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (24...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (27...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (33...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										

Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N20A	1.562454	0	0.902083	0	
3	N28	-1.562454	0	0.902083	0	
4	N32	-2.67073	0	-1.541947	0	
5	N33	-5.337397	0	3.076855	0	
6	N34	-0.004064	0	-6.160749	0	
7	N35	0.	0	3.083894	0	
8	N36	5.333333	0	3.083894	0	
9	N38	2.67073	0	-1.541947	0	
10	N21	0.302785	0	3.083894	0	
11	N22A	2.821892	0	-1.279327	0	
12	N15	2.518876	0	-1.804167	0	
13	N16	-2.519338	0	-1.804167	0	
14	N17	-2.822123	0	-1.279727	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N18	-0.303016	0	3.083494	0	
16	N19	-0.	0	-1.804167	0	
17	N20	1.395787	0	1.190758	0	
18	N21A	1.729121	0	0.613408	0	
19	N23	0.333333	0	-1.804167	0	
20	N24	-0.333333	0	-1.804167	0	
21	N26	-1.729121	0	0.613408	0	
22	N27	-1.395787	0	1.190758	0	
23	N29	2.196892	0	-0.196796	0	
24	N24A	-3.79573	0	0.40661	0	
25	N25	-1.54573	0	-3.490504	0	
26	N27A	2.25	0	3.083894	0	
27	N28A	-2.251714	0	3.080924	0	
28	N30	1.542302	0	-3.490504	0	
29	N31	3.794016	0	0.40958	0	
30	N31A	3.657303	0	0.646373	0	
31	N31B	2.927098	0	0.224789	0	
32	N32A	2.458001	0	-0.046045	0	
33	N33A	3.396195	0	0.495622	0	
34	N34A	2.374667	0	0.098293	0	
35	N35A	3.312861	0	0.63996	0	
36	N36A	2.374667	2.166667	0.098293	0	
37	N37	3.312861	2.166667	0.63996	0	
38	N38A	2.374667	-3.833333	0.098293	0	
39	N39	3.312861	-3.833333	0.63996	0	
40	N40	2.374667	1.166667	0.098293	0	
41	N42	2.374667	-0.833333	0.098293	0	
42	N43	2.374667	-1.833333	0.098293	0	
43	N44	3.312861	1.166667	0.63996	0	
44	N46	3.312861	-0.833333	0.63996	0	
45	N47	3.312861	-1.833333	0.63996	0	
46	N46A	2.374667	-2.833333	0.098293	0	
47	N47A	3.312861	-2.833333	0.63996	0	
48	N50	-0.410314	0.208333	-5.457103	0	
49	N49	-4.931147	0.208333	2.37321	0	
50	N50A	-4.524278	0.208333	3.077928	0	
51	N51	4.520833	0.208333	3.083894	0	
52	N52	4.927702	0.208333	2.379176	0	
53	N53	0.403425	0.208333	-5.457103	0	
54	N54	4.666667	0	3.083894	0	
55	N55	4.666667	0	3.333894	0	
56	N56	4.666667	3.916667	3.333894	0	
57	N57	4.666667	-4.583333	3.333894	0	
58	N58	0.291667	0	3.083894	0	
59	N59	0.291667	0	3.333894	0	
60	N60	0.291667	3.916667	3.333894	0	
61	N61	0.291667	-4.583333	3.333894	0	
62	N62	-2.833333	0	3.083894	0	
63	N63	-2.833333	0	3.333894	0	
64	N64	-2.833333	3.916667	3.333894	0	
65	N65	-2.833333	-4.583333	3.333894	0	
66	N66	-4.833333	0	3.083894	0	
67	N67	-4.833333	0	3.333894	0	
68	N68	-4.833333	3.916667	3.333894	0	
69	N69	-4.833333	-4.583333	3.333894	0	
70	N71	0.337397	0	-5.583399	0	
71	N72	0.553903	0	-5.708399	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N73	0.553903	3.916667	-5.708399	0	
73	N74	0.553903	-4.583333	-5.708399	0	
74	N76	2.741403	0	-1.919538	0	
75	N77	2.741403	3.916667	-1.919538	0	
76	N78	2.741403	-4.583333	-1.919538	0	
77	N79	4.087397	0	0.911792	0	
78	N80	4.303903	0	0.786792	0	
79	N81	4.303903	3.916667	0.786792	0	
80	N82	4.303903	-4.583333	0.786792	0	
81	N83	5.087397	0	2.643843	0	
82	N84	5.303903	0	2.518843	0	
83	N85	5.303903	3.916667	2.518843	0	
84	N86	5.303903	-4.583333	2.518843	0	
85	N88	-5.004064	0	2.499505	0	
86	N89	-5.22057	0	2.374505	0	
87	N90	-5.22057	3.916667	2.374505	0	
88	N91	-5.22057	-4.583333	2.374505	0	
89	N93	-3.03307	0	-1.414356	0	
90	N94	-3.03307	3.916667	-1.414356	0	
91	N95	-3.03307	-4.583333	-1.414356	0	
92	N96	-1.254064	0	-3.995685	0	
93	N97	-1.47057	0	-4.120685	0	
94	N98	-1.47057	3.916667	-4.120685	0	
95	N99	-1.47057	-4.583333	-4.120685	0	
96	N100	-0.254064	0	-5.727736	0	
97	N101	-0.47057	0	-5.852736	0	
98	N102	-0.47057	3.916667	-5.852736	0	
99	N103	-0.47057	-4.583333	-5.852736	0	
100	N100A	-0.410314	-0.208333	-5.457103	0	
101	N101A	-4.931147	-0.208333	2.37321	0	
102	N102A	-4.524278	-0.208333	3.077928	0	
103	N103A	4.520833	-0.208333	3.083894	0	
104	N104	4.927702	-0.208333	2.379176	0	
105	N105	0.403425	-0.208333	-5.457103	0	
106	N106	-0.410314	0	-5.457103	0	
107	N107	-4.931147	0	2.37321	0	
108	N108	-4.524278	0	3.077928	0	
109	N109	4.520833	0	3.083894	0	
110	N110	4.927702	0	2.379176	0	
111	N111	0.403425	0	-5.457103	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE_2.0	Column	Wide Flange	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	C5X6.7	Beam	Channel	A500 Gr. B 42	Typical	1.97	.47	7.48	.055
3	Standoff_Horizontal	C5X6.7	Beam	Channel	A500 Gr. B 42	Typical	1.97	.47	7.48	.055
4	Ladder	L2x2x4	Column	Single Angle	A36 Gr.36	Typical	.944	.346	.346	.021
5	Ladder Rung	SR_0.5	Beam	BAR	A36 Gr.36	Typical	.196	.003	.003	.006
6	Corner Plate	PL1/2X8	Beam	RECT	A36 Gr.36	Typical	4	.083	21.333	.32
7	Dual Antenna	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	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M12	N34	N32		180	Face Horizontal	Beam	Channel	A500 Gr. ...	Typical
2	M13	N32	N33		180	Face Horizontal	Beam	Channel	A500 Gr. ...	Typical
3	M7	N22A	N21		180	Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
4	M8	N16	N15		180	Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
5	M9	N18	N17		180	Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
6	M9A	N33	N35		180	Face Horizontal	Beam	Channel	A500 Gr. ...	Typical
7	M10A	N35	N36		180	Face Horizontal	Beam	Channel	A500 Gr. ...	Typical
8	M11A	N36	N38		180	Face Horizontal	Beam	Channel	A500 Gr. ...	Typical
9	M12B	N38	N34		180	Face Horizontal	Beam	Channel	A500 Gr. ...	Typical
10	M10	N31	N27A			Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
11	M11	N25	N30			Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
12	M12A	N28A	N24A			Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
13	M13A	N29	N31B			Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
14	M14	N31B	N31A			Standoff Horiz...	Beam	Channel	A500 Gr. ...	Typical
15	M15	N34A	N32A			RIGID	None	None	RIGID	Typical
16	M16	N35A	N33A			RIGID	None	None	RIGID	Typical
17	M17	N36A	N38A	N44	90	Ladder	Column	Single Angle	A36 Gr.36	Typical
18	M18	N37	N39	N40	180	Ladder	Column	Single Angle	A36 Gr.36	Typical
19	M19	N40	N44			Ladder Rung	Beam	BAR	A36 Gr.36	Typical
20	M20	N42	N46			Ladder Rung	Beam	BAR	A36 Gr.36	Typical
21	M21	N43	N47			Ladder Rung	Beam	BAR	A36 Gr.36	Typical
22	M22	N46A	N47A			Ladder Rung	Beam	BAR	A36 Gr.36	Typical
23	M23	N52	N51		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
24	M24	N50	N53		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
25	M25	N50A	N49		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
26	M26	N54	N55			RIGID	None	None	RIGID	Typical
27	MP1A	N56	N57			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
28	M28	N58	N59			RIGID	None	None	RIGID	Typical
29	MP2A	N60	N61			Dual Antenna	Column	Pipe	A53 Gr. B	Typical
30	M30	N62	N63			RIGID	None	None	RIGID	Typical
31	MP3A	N64	N65			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
32	M32	N66	N67			RIGID	None	None	RIGID	Typical
33	MP4A	N68	N69			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
34	M34	N71	N72			RIGID	None	None	RIGID	Typical
35	MP1C	N73	N74			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
36	M36	N15	N76			RIGID	None	None	RIGID	Typical
37	MP2C	N77	N78			Dual Antenna	Column	Pipe	A53 Gr. B	Typical
38	M38	N79	N80			RIGID	None	None	RIGID	Typical
39	MP3C	N81	N82			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
40	M40	N83	N84			RIGID	None	None	RIGID	Typical
41	MP4C	N85	N86			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
42	M42	N88	N89			RIGID	None	None	RIGID	Typical
43	MP1B	N90	N91			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
44	M44	N17	N93			RIGID	None	None	RIGID	Typical
45	MP2B	N94	N95			Dual Antenna	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
46	M46	N96	N97			RIGID	None	None	RIGID	Typical
47	MP3B	N98	N99			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
48	M48	N100	N101			RIGID	None	None	RIGID	Typical
49	MP4B	N102	N103			Mount Pipe	Column	Wide Flange	A53 Gr. B	Typical
50	M50	N104	N103A		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
51	M51	N100A	N105		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
52	M52	N102A	N101A		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
53	M53	N51	N109			RIGID	None	None	RIGID	Typical
54	M54	N109	N103A			RIGID	None	None	RIGID	Typical
55	M55	N52	N110			RIGID	None	None	RIGID	Typical
56	M56	N110	N104			RIGID	None	None	RIGID	Typical
57	M57	N50A	N108			RIGID	None	None	RIGID	Typical
58	M58	N108	N102A			RIGID	None	None	RIGID	Typical
59	M59	N49	N107			RIGID	None	None	RIGID	Typical
60	M60	N107	N101A			RIGID	None	None	RIGID	Typical
61	M61	N50	N106			RIGID	None	None	RIGID	Typical
62	M62	N106	N100A			RIGID	None	None	RIGID	Typical
63	M63	N53	N111			RIGID	None	None	RIGID	Typical
64	M64	N111	N105			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M12						Yes				None
2	M13						Yes				None
3	M7						Yes				None
4	M8						Yes				None
5	M9						Yes				None
6	M9A						Yes				None
7	M10A						Yes				None
8	M11A						Yes				None
9	M12B						Yes				None
10	M10						Yes				None
11	M11						Yes				None
12	M12A						Yes				None
13	M13A						Yes				None
14	M14						Yes				None
15	M15						Yes	** NA **			None
16	M16						Yes	** NA **			None
17	M17						Yes	** NA **			None
18	M18						Yes	** NA **			None
19	M19	BenPIN	BenPIN				Yes				None
20	M20	BenPIN	BenPIN				Yes				None
21	M21	BenPIN	BenPIN				Yes				None
22	M22	BenPIN	BenPIN				Yes				None
23	M23						Yes				None
24	M24						Yes				None
25	M25						Yes				None
26	M26						Yes	** NA **			None
27	MP1A						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	MP2A						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	MP3A						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	MP4A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
34	M34						Yes	** NA **			None
35	MP1C						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	MP2C						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP3C						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP4C						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	MP1B						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	MP2B						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	MP3B						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	MP4B						Yes	** NA **			None
50	M50						Yes				None
51	M51						Yes				None
52	M52						Yes				None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-23	1.5
2	MP2A	My	-.01	1.5
3	MP2A	Mz	.016	1.5
4	MP2A	Y	-23	5.5
5	MP2A	My	-.01	5.5
6	MP2A	Mz	.016	5.5
7	MP2B	Y	-23	1.5
8	MP2B	My	-.006	1.5
9	MP2B	Mz	-.018	1.5
10	MP2B	Y	-23	5.5
11	MP2B	My	-.006	5.5
12	MP2B	Mz	-.018	5.5
13	MP2C	Y	-23	1.5
14	MP2C	My	.019	1.5
15	MP2C	Mz	.00096	1.5
16	MP2C	Y	-23	5.5
17	MP2C	My	.019	5.5
18	MP2C	Mz	.00096	5.5
19	MP2A	Y	-23	1.5
20	MP2A	My	-.013	1.5
21	MP2A	Mz	-.014	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	Y	-23	5.5
23	MP2A	My	-.013	5.5
24	MP2A	Mz	-.014	5.5
25	MP2B	Y	-23	1.5
26	MP2B	My	.019	1.5
27	MP2B	Mz	-.000291	1.5
28	MP2B	Y	-23	5.5
29	MP2B	My	.019	5.5
30	MP2B	Mz	-.000291	5.5
31	MP2C	Y	-23	1.5
32	MP2C	My	-.006	1.5
33	MP2C	Mz	.018	1.5
34	MP2C	Y	-23	5.5
35	MP2C	My	-.006	5.5
36	MP2C	Mz	.018	5.5
37	MP1A	Y	-43.55	2.5
38	MP1A	My	-.022	2.5
39	MP1A	Mz	.002	2.5
40	MP1A	Y	-43.55	4.5
41	MP1A	My	-.022	4.5
42	MP1A	Mz	.002	4.5
43	MP1B	Y	-43.55	2.5
44	MP1B	My	.013	2.5
45	MP1B	Mz	-.018	2.5
46	MP1B	Y	-43.55	4.5
47	MP1B	My	.013	4.5
48	MP1B	Mz	-.018	4.5
49	MP1C	Y	-43.55	2.5
50	MP1C	My	.012	2.5
51	MP1C	Mz	.018	2.5
52	MP1C	Y	-43.55	4.5
53	MP1C	My	.012	4.5
54	MP1C	Mz	.018	4.5
55	MP2A	Y	-84.4	2.5
56	MP2A	My	.042	2.5
57	MP2A	Mz	-.003	2.5
58	MP2B	Y	-84.4	2.5
59	MP2B	My	-.025	2.5
60	MP2B	Mz	.034	2.5
61	MP2C	Y	-84.4	2.5
62	MP2C	My	-.024	2.5
63	MP2C	Mz	-.035	2.5
64	MP1A	Y	-70.3	1.5
65	MP1A	My	.035	1.5
66	MP1A	Mz	-.002	1.5
67	MP1B	Y	-70.3	1.5
68	MP1B	My	-.021	1.5
69	MP1B	Mz	.028	1.5
70	MP1C	Y	-70.3	1.5
71	MP1C	My	-.02	1.5
72	MP1C	Mz	-.029	1.5
73	MP3A	Y	-32	2
74	MP3A	My	.016	2
75	MP3A	Mz	-.001	2
76	MP3B	Y	-32	2
77	MP3B	My	-.009	2
78	MP3B	Mz	.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP4A	Y	-13.9	2
80	MP4A	My	-.007	2
81	MP4A	Mz	.000485	2
82	MP4A	Y	-13.9	5
83	MP4A	My	-.007	5
84	MP4A	Mz	.000485	5
85	MP4B	Y	-13.9	2
86	MP4B	My	.004	2
87	MP4B	Mz	-.006	2
88	MP4B	Y	-13.9	5
89	MP4B	My	.004	5
90	MP4B	Mz	-.006	5
91	MP4C	Y	-13.9	2
92	MP4C	My	.004	2
93	MP4C	Mz	.006	2
94	MP4C	Y	-13.9	5
95	MP4C	My	.004	5
96	MP4C	Mz	.006	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-82.222	1.5
2	MP2A	My	-.037	1.5
3	MP2A	Mz	.058	1.5
4	MP2A	Y	-82.222	5.5
5	MP2A	My	-.037	5.5
6	MP2A	Mz	.058	5.5
7	MP2B	Y	-82.222	1.5
8	MP2B	My	-.02	1.5
9	MP2B	Mz	-.065	1.5
10	MP2B	Y	-82.222	5.5
11	MP2B	My	-.02	5.5
12	MP2B	Mz	-.065	5.5
13	MP2C	Y	-82.222	1.5
14	MP2C	My	.068	1.5
15	MP2C	Mz	.003	1.5
16	MP2C	Y	-82.222	5.5
17	MP2C	My	.068	5.5
18	MP2C	Mz	.003	5.5
19	MP2A	Y	-82.222	1.5
20	MP2A	My	-.045	1.5
21	MP2A	Mz	-.052	1.5
22	MP2A	Y	-82.222	5.5
23	MP2A	My	-.045	5.5
24	MP2A	Mz	-.052	5.5
25	MP2B	Y	-82.222	1.5
26	MP2B	My	.069	1.5
27	MP2B	Mz	-.001	1.5
28	MP2B	Y	-82.222	5.5
29	MP2B	My	.069	5.5
30	MP2B	Mz	-.001	5.5
31	MP2C	Y	-82.222	1.5
32	MP2C	My	-.022	1.5
33	MP2C	Mz	.065	1.5
34	MP2C	Y	-82.222	5.5
35	MP2C	My	-.022	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mz	.065	5.5
37	MP1A	Y	-35.505	2.5
38	MP1A	My	-.018	2.5
39	MP1A	Mz	.001	2.5
40	MP1A	Y	-35.505	4.5
41	MP1A	My	-.018	4.5
42	MP1A	Mz	.001	4.5
43	MP1B	Y	-35.505	2.5
44	MP1B	My	.01	2.5
45	MP1B	Mz	-.014	2.5
46	MP1B	Y	-35.505	4.5
47	MP1B	My	.01	4.5
48	MP1B	Mz	-.014	4.5
49	MP1C	Y	-35.505	2.5
50	MP1C	My	.01	2.5
51	MP1C	Mz	.015	2.5
52	MP1C	Y	-35.505	4.5
53	MP1C	My	.01	4.5
54	MP1C	Mz	.015	4.5
55	MP2A	Y	-44.762	2.5
56	MP2A	My	.022	2.5
57	MP2A	Mz	-.002	2.5
58	MP2B	Y	-44.762	2.5
59	MP2B	My	-.013	2.5
60	MP2B	Mz	.018	2.5
61	MP2C	Y	-44.762	2.5
62	MP2C	My	-.013	2.5
63	MP2C	Mz	-.019	2.5
64	MP1A	Y	-40.254	1.5
65	MP1A	My	.02	1.5
66	MP1A	Mz	-.001	1.5
67	MP1B	Y	-40.254	1.5
68	MP1B	My	-.012	1.5
69	MP1B	Mz	.016	1.5
70	MP1C	Y	-40.254	1.5
71	MP1C	My	-.011	1.5
72	MP1C	Mz	-.017	1.5
73	MP3A	Y	-75.721	2
74	MP3A	My	.038	2
75	MP3A	Mz	-.003	2
76	MP3B	Y	-75.721	2
77	MP3B	My	-.022	2
78	MP3B	Mz	.031	2
79	MP4A	Y	-42.174	2
80	MP4A	My	-.021	2
81	MP4A	Mz	.001	2
82	MP4A	Y	-42.174	5
83	MP4A	My	-.021	5
84	MP4A	Mz	.001	5
85	MP4B	Y	-42.174	2
86	MP4B	My	.012	2
87	MP4B	Mz	-.017	2
88	MP4B	Y	-42.174	5
89	MP4B	My	.012	5
90	MP4B	Mz	-.017	5
91	MP4C	Y	-42.174	2
92	MP4C	My	.012	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP4C	Mz	.017	2
94	MP4C	Y	-42.174	5
95	MP4C	My	.012	5
96	MP4C	Mz	.017	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-233.316	1.5
3	MP2A	Mx	-.163	1.5
4	MP2A	X	0	5.5
5	MP2A	Z	-233.316	5.5
6	MP2A	Mx	-.163	5.5
7	MP2B	X	0	1.5
8	MP2B	Z	-194.383	1.5
9	MP2B	Mx	.155	1.5
10	MP2B	X	0	5.5
11	MP2B	Z	-194.383	5.5
12	MP2B	Mx	.155	5.5
13	MP2C	X	0	1.5
14	MP2C	Z	-192.418	1.5
15	MP2C	Mx	-.008	1.5
16	MP2C	X	0	5.5
17	MP2C	Z	-192.418	5.5
18	MP2C	Mx	-.008	5.5
19	MP2A	X	0	1.5
20	MP2A	Z	-233.316	1.5
21	MP2A	Mx	.147	1.5
22	MP2A	X	0	5.5
23	MP2A	Z	-233.316	5.5
24	MP2A	Mx	.147	5.5
25	MP2B	X	0	1.5
26	MP2B	Z	-194.383	1.5
27	MP2B	Mx	.002	1.5
28	MP2B	X	0	5.5
29	MP2B	Z	-194.383	5.5
30	MP2B	Mx	.002	5.5
31	MP2C	X	0	1.5
32	MP2C	Z	-192.418	1.5
33	MP2C	Mx	-.151	1.5
34	MP2C	X	0	5.5
35	MP2C	Z	-192.418	5.5
36	MP2C	Mx	-.151	5.5
37	MP1A	X	0	2.5
38	MP1A	Z	-110.912	2.5
39	MP1A	Mx	-.004	2.5
40	MP1A	X	0	4.5
41	MP1A	Z	-110.912	4.5
42	MP1A	Mx	-.004	4.5
43	MP1B	X	0	2.5
44	MP1B	Z	-66.937	2.5
45	MP1B	Mx	.027	2.5
46	MP1B	X	0	4.5
47	MP1B	Z	-66.937	4.5
48	MP1B	Mx	.027	4.5
49	MP1C	X	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1C	Z	-64.718	2.5
51	MP1C	Mx	-.027	2.5
52	MP1C	X	0	4.5
53	MP1C	Z	-64.718	4.5
54	MP1C	Mx	-.027	4.5
55	MP2A	X	0	2.5
56	MP2A	Z	-88.377	2.5
57	MP2A	Mx	.003	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	-69.311	2.5
60	MP2B	Mx	-.028	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	-68.348	2.5
63	MP2C	Mx	.028	2.5
64	MP1A	X	0	1.5
65	MP1A	Z	-88.322	1.5
66	MP1A	Mx	.003	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-61.953	1.5
69	MP1B	Mx	-.025	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-60.621	1.5
72	MP1C	Mx	.025	1.5
73	MP3A	X	0	2
74	MP3A	Z	-179.112	2
75	MP3A	Mx	.006	2
76	MP3B	X	0	2
77	MP3B	Z	-139.708	2
78	MP3B	Mx	-.057	2
79	MP4A	X	0	2
80	MP4A	Z	-120.27	2
81	MP4A	Mx	-.004	2
82	MP4A	X	0	5
83	MP4A	Z	-120.27	5
84	MP4A	Mx	-.004	5
85	MP4B	X	0	2
86	MP4B	Z	-93.206	2
87	MP4B	Mx	.038	2
88	MP4B	X	0	5
89	MP4B	Z	-93.206	5
90	MP4B	Mx	.038	5
91	MP4C	X	0	2
92	MP4C	Z	-91.84	2
93	MP4C	Mx	-.038	2
94	MP4C	X	0	5
95	MP4C	Z	-91.84	5
96	MP4C	Mx	-.038	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	107.434	1.5
2	MP2A	Z	-186.081	1.5
3	MP2A	Mx	-.179	1.5
4	MP2A	X	107.434	5.5
5	MP2A	Z	-186.081	5.5
6	MP2A	Mx	-.179	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2B	X	87.166	1.5
8	MP2B	Z	-150.977	1.5
9	MP2B	Mx	.099	1.5
10	MP2B	X	87.166	5.5
11	MP2B	Z	-150.977	5.5
12	MP2B	Mx	.099	5.5
13	MP2C	X	111.045	1.5
14	MP2C	Z	-192.336	1.5
15	MP2C	Mx	.084	1.5
16	MP2C	X	111.045	5.5
17	MP2C	Z	-192.336	5.5
18	MP2C	Mx	.084	5.5
19	MP2A	X	107.434	1.5
20	MP2A	Z	-186.081	1.5
21	MP2A	Mx	.059	1.5
22	MP2A	X	107.434	5.5
23	MP2A	Z	-186.081	5.5
24	MP2A	Mx	.059	5.5
25	MP2B	X	87.166	1.5
26	MP2B	Z	-150.977	1.5
27	MP2B	Mx	.075	1.5
28	MP2B	X	87.166	5.5
29	MP2B	Z	-150.977	5.5
30	MP2B	Mx	.075	5.5
31	MP2C	X	111.045	1.5
32	MP2C	Z	-192.336	1.5
33	MP2C	Mx	-.182	1.5
34	MP2C	X	111.045	5.5
35	MP2C	Z	-192.336	5.5
36	MP2C	Mx	-.182	5.5
37	MP1A	X	45.037	2.5
38	MP1A	Z	-78.007	2.5
39	MP1A	Mx	-.025	2.5
40	MP1A	X	45.037	4.5
41	MP1A	Z	-78.007	4.5
42	MP1A	Mx	-.025	4.5
43	MP1B	X	22.145	2.5
44	MP1B	Z	-38.357	2.5
45	MP1B	Mx	.022	2.5
46	MP1B	X	22.145	4.5
47	MP1B	Z	-38.357	4.5
48	MP1B	Mx	.022	4.5
49	MP1C	X	49.117	2.5
50	MP1C	Z	-85.073	2.5
51	MP1C	Mx	-.022	2.5
52	MP1C	X	49.117	4.5
53	MP1C	Z	-85.073	4.5
54	MP1C	Mx	-.022	4.5
55	MP2A	X	39.671	2.5
56	MP2A	Z	-68.713	2.5
57	MP2A	Mx	.022	2.5
58	MP2B	X	29.746	2.5
59	MP2B	Z	-51.521	2.5
60	MP2B	Mx	-.03	2.5
61	MP2C	X	41.44	2.5
62	MP2C	Z	-71.776	2.5
63	MP2C	Mx	.018	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1A	X	37.914	1.5
65	MP1A	Z	-65.668	1.5
66	MP1A	Mx	.021	1.5
67	MP1B	X	24.186	1.5
68	MP1B	Z	-41.891	1.5
69	MP1B	Mx	-.024	1.5
70	MP1C	X	40.36	1.5
71	MP1C	Z	-69.905	1.5
72	MP1C	Mx	.018	1.5
73	MP3A	X	80.22	2
74	MP3A	Z	-138.946	2
75	MP3A	Mx	.045	2
76	MP3B	X	59.708	2
77	MP3B	Z	-103.417	2
78	MP3B	Mx	-.059	2
79	MP4A	X	53.723	2
80	MP4A	Z	-93.051	2
81	MP4A	Mx	-.03	2
82	MP4A	X	53.723	5
83	MP4A	Z	-93.051	5
84	MP4A	Mx	-.03	5
85	MP4B	X	39.634	2
86	MP4B	Z	-68.648	2
87	MP4B	Mx	.039	2
88	MP4B	X	39.634	5
89	MP4B	Z	-68.648	5
90	MP4B	Mx	.039	5
91	MP4C	X	56.233	2
92	MP4C	Z	-97.399	2
93	MP4C	Mx	-.025	2
94	MP4C	X	56.233	5
95	MP4C	Z	-97.399	5
96	MP4C	Mx	-.025	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	160.383	1.5
2	MP2A	Z	-92.597	1.5
3	MP2A	Mx	-.137	1.5
4	MP2A	X	160.383	5.5
5	MP2A	Z	-92.597	5.5
6	MP2A	Mx	-.137	5.5
7	MP2B	X	158.996	1.5
8	MP2B	Z	-91.796	1.5
9	MP2B	Mx	.034	1.5
10	MP2B	X	158.996	5.5
11	MP2B	Z	-91.796	5.5
12	MP2B	Mx	.034	5.5
13	MP2C	X	202.057	1.5
14	MP2C	Z	-116.658	1.5
15	MP2C	Mx	.163	1.5
16	MP2C	X	202.057	5.5
17	MP2C	Z	-116.658	5.5
18	MP2C	Mx	.163	5.5
19	MP2A	X	160.383	1.5
20	MP2A	Z	-92.597	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.029	1.5
22	MP2A	X	160.383	5.5
23	MP2A	Z	-92.597	5.5
24	MP2A	Mx	-.029	5.5
25	MP2B	X	158.996	1.5
26	MP2B	Z	-91.796	1.5
27	MP2B	Mx	.134	1.5
28	MP2B	X	158.996	5.5
29	MP2B	Z	-91.796	5.5
30	MP2B	Mx	.134	5.5
31	MP2C	X	202.057	1.5
32	MP2C	Z	-116.658	1.5
33	MP2C	Mx	-.147	1.5
34	MP2C	X	202.057	5.5
35	MP2C	Z	-116.658	5.5
36	MP2C	Mx	-.147	5.5
37	MP1A	X	48.982	2.5
38	MP1A	Z	-28.279	2.5
39	MP1A	Mx	-.025	2.5
40	MP1A	X	48.982	4.5
41	MP1A	Z	-28.279	4.5
42	MP1A	Mx	-.025	4.5
43	MP1B	X	47.414	2.5
44	MP1B	Z	-27.375	2.5
45	MP1B	Mx	.025	2.5
46	MP1B	X	47.414	4.5
47	MP1B	Z	-27.375	4.5
48	MP1B	Mx	.025	4.5
49	MP1C	X	96.053	2.5
50	MP1C	Z	-55.456	2.5
51	MP1C	Mx	.004	2.5
52	MP1C	X	96.053	4.5
53	MP1C	Z	-55.456	4.5
54	MP1C	Mx	.004	4.5
55	MP2A	X	56.128	2.5
56	MP2A	Z	-32.406	2.5
57	MP2A	Mx	.029	2.5
58	MP2B	X	55.449	2.5
59	MP2B	Z	-32.013	2.5
60	MP2B	Mx	-.029	2.5
61	MP2C	X	76.537	2.5
62	MP2C	Z	-44.189	2.5
63	MP2C	Mx	-.003	2.5
64	MP1A	X	48.263	1.5
65	MP1A	Z	-27.865	1.5
66	MP1A	Mx	.025	1.5
67	MP1B	X	47.323	1.5
68	MP1B	Z	-27.322	1.5
69	MP1B	Mx	-.025	1.5
70	MP1C	X	76.489	1.5
71	MP1C	Z	-44.161	1.5
72	MP1C	Mx	-.003	1.5
73	MP3A	X	112.937	2
74	MP3A	Z	-65.204	2
75	MP3A	Mx	.059	2
76	MP3B	X	111.533	2
77	MP3B	Z	-64.394	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3B	Mx	-.059	2
79	MP4A	X	75.187	2
80	MP4A	Z	-43.409	2
81	MP4A	Mx	-.039	2
82	MP4A	X	75.187	5
83	MP4A	Z	-43.409	5
84	MP4A	Mx	-.039	5
85	MP4B	X	74.223	2
86	MP4B	Z	-42.853	2
87	MP4B	Mx	.039	2
88	MP4B	X	74.223	5
89	MP4B	Z	-42.853	5
90	MP4B	Mx	.039	5
91	MP4C	X	104.157	2
92	MP4C	Z	-60.135	2
93	MP4C	Mx	.004	2
94	MP4C	X	104.157	5
95	MP4C	Z	-60.135	5
96	MP4C	Mx	.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	173.97	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.079	1.5
4	MP2A	X	173.97	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.079	5.5
7	MP2B	X	212.902	1.5
8	MP2B	Z	0	1.5
9	MP2B	Mx	-.052	1.5
10	MP2B	X	212.902	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.052	5.5
13	MP2C	X	214.868	1.5
14	MP2C	Z	0	1.5
15	MP2C	Mx	.179	1.5
16	MP2C	X	214.868	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.179	5.5
19	MP2A	X	173.97	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	-.095	1.5
22	MP2A	X	173.97	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.095	5.5
25	MP2B	X	212.902	1.5
26	MP2B	Z	0	1.5
27	MP2B	Mx	.177	1.5
28	MP2B	X	212.902	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.177	5.5
31	MP2C	X	214.868	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	-.059	1.5
34	MP2C	X	214.868	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.059	5.5
37	MP1A	X	43.88	2.5
38	MP1A	Z	0	2.5
39	MP1A	Mx	-.022	2.5
40	MP1A	X	43.88	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	-.022	4.5
43	MP1B	X	87.855	2.5
44	MP1B	Z	0	2.5
45	MP1B	Mx	.026	2.5
46	MP1B	X	87.855	4.5
47	MP1B	Z	0	4.5
48	MP1B	Mx	.026	4.5
49	MP1C	X	90.075	2.5
50	MP1C	Z	0	2.5
51	MP1C	Mx	.025	2.5
52	MP1C	X	90.075	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	.025	4.5
55	MP2A	X	59.314	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	.03	2.5
58	MP2B	X	78.38	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	-.023	2.5
61	MP2C	X	79.343	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	-.022	2.5
64	MP1A	X	48.126	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.024	1.5
67	MP1B	X	74.496	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.022	1.5
70	MP1C	X	75.827	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.021	1.5
73	MP3A	X	119.048	2
74	MP3A	Z	0	2
75	MP3A	Mx	.059	2
76	MP3B	X	158.451	2
77	MP3B	Z	0	2
78	MP3B	Mx	-.047	2
79	MP4A	X	79.016	2
80	MP4A	Z	0	2
81	MP4A	Mx	-.039	2
82	MP4A	X	79.016	5
83	MP4A	Z	0	5
84	MP4A	Mx	-.039	5
85	MP4B	X	106.079	2
86	MP4B	Z	0	2
87	MP4B	Mx	.031	2
88	MP4B	X	106.079	5
89	MP4B	Z	0	5
90	MP4B	Mx	.031	5
91	MP4C	X	107.446	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4C	Z	0	2
93	MP4C	Mx	.03	2
94	MP4C	X	107.446	5
95	MP4C	Z	0	5
96	MP4C	Mx	.03	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	166.639	1.5
2	MP2A	Z	96.209	1.5
3	MP2A	Mx	-.008	1.5
4	MP2A	X	166.639	5.5
5	MP2A	Z	96.209	5.5
6	MP2A	Mx	-.008	5.5
7	MP2B	X	201.743	1.5
8	MP2B	Z	116.476	1.5
9	MP2B	Mx	-.142	1.5
10	MP2B	X	201.743	5.5
11	MP2B	Z	116.476	5.5
12	MP2B	Mx	-.142	5.5
13	MP2C	X	160.383	1.5
14	MP2C	Z	92.597	1.5
15	MP2C	Mx	.137	1.5
16	MP2C	X	160.383	5.5
17	MP2C	Z	92.597	5.5
18	MP2C	Mx	.137	5.5
19	MP2A	X	166.639	1.5
20	MP2A	Z	96.209	1.5
21	MP2A	Mx	-.151	1.5
22	MP2A	X	166.639	5.5
23	MP2A	Z	96.209	5.5
24	MP2A	Mx	-.151	5.5
25	MP2B	X	201.743	1.5
26	MP2B	Z	116.476	1.5
27	MP2B	Mx	.167	1.5
28	MP2B	X	201.743	5.5
29	MP2B	Z	116.476	5.5
30	MP2B	Mx	.167	5.5
31	MP2C	X	160.383	1.5
32	MP2C	Z	92.597	1.5
33	MP2C	Mx	.029	1.5
34	MP2C	X	160.383	5.5
35	MP2C	Z	92.597	5.5
36	MP2C	Mx	.029	5.5
37	MP1A	X	56.047	2.5
38	MP1A	Z	32.359	2.5
39	MP1A	Mx	-.027	2.5
40	MP1A	X	56.047	4.5
41	MP1A	Z	32.359	4.5
42	MP1A	Mx	-.027	4.5
43	MP1B	X	95.698	2.5
44	MP1B	Z	55.251	2.5
45	MP1B	Mx	.006	2.5
46	MP1B	X	95.698	4.5
47	MP1B	Z	55.251	4.5
48	MP1B	Mx	.006	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	48.982	2.5
50	MP1C	Z	28.279	2.5
51	MP1C	Mx	.025	2.5
52	MP1C	X	48.982	4.5
53	MP1C	Z	28.279	4.5
54	MP1C	Mx	.025	4.5
55	MP2A	X	59.191	2.5
56	MP2A	Z	34.174	2.5
57	MP2A	Mx	.028	2.5
58	MP2B	X	76.383	2.5
59	MP2B	Z	44.1	2.5
60	MP2B	Mx	-.005	2.5
61	MP2C	X	56.128	2.5
62	MP2C	Z	32.406	2.5
63	MP2C	Mx	-.029	2.5
64	MP1A	X	52.5	1.5
65	MP1A	Z	30.311	1.5
66	MP1A	Mx	.025	1.5
67	MP1B	X	76.276	1.5
68	MP1B	Z	44.038	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	48.263	1.5
71	MP1C	Z	27.865	1.5
72	MP1C	Mx	-.025	1.5
73	MP3A	X	119.268	2
74	MP3A	Z	68.86	2
75	MP3A	Mx	.057	2
76	MP3B	X	154.797	2
77	MP3B	Z	89.372	2
78	MP3B	Mx	-.009	2
79	MP4A	X	79.536	2
80	MP4A	Z	45.92	2
81	MP4A	Mx	-.038	2
82	MP4A	X	79.536	5
83	MP4A	Z	45.92	5
84	MP4A	Mx	-.038	5
85	MP4B	X	103.938	2
86	MP4B	Z	60.009	2
87	MP4B	Mx	.006	2
88	MP4B	X	103.938	5
89	MP4B	Z	60.009	5
90	MP4B	Mx	.006	5
91	MP4C	X	75.187	2
92	MP4C	Z	43.409	2
93	MP4C	Mx	.039	2
94	MP4C	X	75.187	5
95	MP4C	Z	43.409	5
96	MP4C	Mx	.039	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	111.045	1.5
2	MP2A	Z	192.336	1.5
3	MP2A	Mx	.084	1.5
4	MP2A	X	111.045	5.5
5	MP2A	Z	192.336	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.084	5.5
7	MP2B	X	111.847	1.5
8	MP2B	Z	193.724	1.5
9	MP2B	Mx	-.182	1.5
10	MP2B	X	111.847	5.5
11	MP2B	Z	193.724	5.5
12	MP2B	Mx	-.182	5.5
13	MP2C	X	86.985	1.5
14	MP2C	Z	150.662	1.5
15	MP2C	Mx	.079	1.5
16	MP2C	X	86.985	5.5
17	MP2C	Z	150.662	5.5
18	MP2C	Mx	.079	5.5
19	MP2A	X	111.045	1.5
20	MP2A	Z	192.336	1.5
21	MP2A	Mx	-.182	1.5
22	MP2A	X	111.045	5.5
23	MP2A	Z	192.336	5.5
24	MP2A	Mx	-.182	5.5
25	MP2B	X	111.847	1.5
26	MP2B	Z	193.724	1.5
27	MP2B	Mx	.091	1.5
28	MP2B	X	111.847	5.5
29	MP2B	Z	193.724	5.5
30	MP2B	Mx	.091	5.5
31	MP2C	X	86.985	1.5
32	MP2C	Z	150.662	1.5
33	MP2C	Mx	.095	1.5
34	MP2C	X	86.985	5.5
35	MP2C	Z	150.662	5.5
36	MP2C	Mx	.095	5.5
37	MP1A	X	49.117	2.5
38	MP1A	Z	85.073	2.5
39	MP1A	Mx	-.022	2.5
40	MP1A	X	49.117	4.5
41	MP1A	Z	85.073	4.5
42	MP1A	Mx	-.022	4.5
43	MP1B	X	50.022	2.5
44	MP1B	Z	86.64	2.5
45	MP1B	Mx	-.02	2.5
46	MP1B	X	50.022	4.5
47	MP1B	Z	86.64	4.5
48	MP1B	Mx	-.02	4.5
49	MP1C	X	21.94	2.5
50	MP1C	Z	38.001	2.5
51	MP1C	Mx	.022	2.5
52	MP1C	X	21.94	4.5
53	MP1C	Z	38.001	4.5
54	MP1C	Mx	.022	4.5
55	MP2A	X	41.44	2.5
56	MP2A	Z	71.776	2.5
57	MP2A	Mx	.018	2.5
58	MP2B	X	41.832	2.5
59	MP2B	Z	72.456	2.5
60	MP2B	Mx	.017	2.5
61	MP2C	X	29.657	2.5
62	MP2C	Z	51.367	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	-.03	2.5
64	MP1A	X	40.36	1.5
65	MP1A	Z	69.905	1.5
66	MP1A	Mx	.018	1.5
67	MP1B	X	40.902	1.5
68	MP1B	Z	70.845	1.5
69	MP1B	Mx	.017	1.5
70	MP1C	X	24.063	1.5
71	MP1C	Z	41.678	1.5
72	MP1C	Mx	-.024	1.5
73	MP3A	X	83.876	2
74	MP3A	Z	145.277	2
75	MP3A	Mx	.037	2
76	MP3B	X	84.686	2
77	MP3B	Z	146.681	2
78	MP3B	Mx	.034	2
79	MP4A	X	56.233	2
80	MP4A	Z	97.399	2
81	MP4A	Mx	-.025	2
82	MP4A	X	56.233	5
83	MP4A	Z	97.399	5
84	MP4A	Mx	-.025	5
85	MP4B	X	56.79	2
86	MP4B	Z	98.364	2
87	MP4B	Mx	-.023	2
88	MP4B	X	56.79	5
89	MP4B	Z	98.364	5
90	MP4B	Mx	-.023	5
91	MP4C	X	39.508	2
92	MP4C	Z	68.43	2
93	MP4C	Mx	.039	2
94	MP4C	X	39.508	5
95	MP4C	Z	68.43	5
96	MP4C	Mx	.039	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	233.316	1.5
3	MP2A	Mx	.163	1.5
4	MP2A	X	0	5.5
5	MP2A	Z	233.316	5.5
6	MP2A	Mx	.163	5.5
7	MP2B	X	0	1.5
8	MP2B	Z	194.383	1.5
9	MP2B	Mx	-.155	1.5
10	MP2B	X	0	5.5
11	MP2B	Z	194.383	5.5
12	MP2B	Mx	-.155	5.5
13	MP2C	X	0	1.5
14	MP2C	Z	192.418	1.5
15	MP2C	Mx	.008	1.5
16	MP2C	X	0	5.5
17	MP2C	Z	192.418	5.5
18	MP2C	Mx	.008	5.5
19	MP2A	X	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	233.316	1.5
21	MP2A	Mx	-.147	1.5
22	MP2A	X	0	5.5
23	MP2A	Z	233.316	5.5
24	MP2A	Mx	-.147	5.5
25	MP2B	X	0	1.5
26	MP2B	Z	194.383	1.5
27	MP2B	Mx	-.002	1.5
28	MP2B	X	0	5.5
29	MP2B	Z	194.383	5.5
30	MP2B	Mx	-.002	5.5
31	MP2C	X	0	1.5
32	MP2C	Z	192.418	1.5
33	MP2C	Mx	.151	1.5
34	MP2C	X	0	5.5
35	MP2C	Z	192.418	5.5
36	MP2C	Mx	.151	5.5
37	MP1A	X	0	2.5
38	MP1A	Z	110.912	2.5
39	MP1A	Mx	.004	2.5
40	MP1A	X	0	4.5
41	MP1A	Z	110.912	4.5
42	MP1A	Mx	.004	4.5
43	MP1B	X	0	2.5
44	MP1B	Z	66.937	2.5
45	MP1B	Mx	-.027	2.5
46	MP1B	X	0	4.5
47	MP1B	Z	66.937	4.5
48	MP1B	Mx	-.027	4.5
49	MP1C	X	0	2.5
50	MP1C	Z	64.718	2.5
51	MP1C	Mx	.027	2.5
52	MP1C	X	0	4.5
53	MP1C	Z	64.718	4.5
54	MP1C	Mx	.027	4.5
55	MP2A	X	0	2.5
56	MP2A	Z	88.377	2.5
57	MP2A	Mx	-.003	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	69.311	2.5
60	MP2B	Mx	.028	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	68.348	2.5
63	MP2C	Mx	-.028	2.5
64	MP1A	X	0	1.5
65	MP1A	Z	88.322	1.5
66	MP1A	Mx	-.003	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	61.953	1.5
69	MP1B	Mx	.025	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	60.621	1.5
72	MP1C	Mx	-.025	1.5
73	MP3A	X	0	2
74	MP3A	Z	179.112	2
75	MP3A	Mx	-.006	2
76	MP3B	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP3B	Z	139.708	2
78	MP3B	Mx	.057	2
79	MP4A	X	0	2
80	MP4A	Z	120.27	2
81	MP4A	Mx	.004	2
82	MP4A	X	0	5
83	MP4A	Z	120.27	5
84	MP4A	Mx	.004	5
85	MP4B	X	0	2
86	MP4B	Z	93.206	2
87	MP4B	Mx	-.038	2
88	MP4B	X	0	5
89	MP4B	Z	93.206	5
90	MP4B	Mx	-.038	5
91	MP4C	X	0	2
92	MP4C	Z	91.84	2
93	MP4C	Mx	.038	2
94	MP4C	X	0	5
95	MP4C	Z	91.84	5
96	MP4C	Mx	.038	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-107.434	1.5
2	MP2A	Z	186.081	1.5
3	MP2A	Mx	.179	1.5
4	MP2A	X	-107.434	5.5
5	MP2A	Z	186.081	5.5
6	MP2A	Mx	.179	5.5
7	MP2B	X	-87.166	1.5
8	MP2B	Z	150.977	1.5
9	MP2B	Mx	-.099	1.5
10	MP2B	X	-87.166	5.5
11	MP2B	Z	150.977	5.5
12	MP2B	Mx	-.099	5.5
13	MP2C	X	-111.045	1.5
14	MP2C	Z	192.336	1.5
15	MP2C	Mx	-.084	1.5
16	MP2C	X	-111.045	5.5
17	MP2C	Z	192.336	5.5
18	MP2C	Mx	-.084	5.5
19	MP2A	X	-107.434	1.5
20	MP2A	Z	186.081	1.5
21	MP2A	Mx	-.059	1.5
22	MP2A	X	-107.434	5.5
23	MP2A	Z	186.081	5.5
24	MP2A	Mx	-.059	5.5
25	MP2B	X	-87.166	1.5
26	MP2B	Z	150.977	1.5
27	MP2B	Mx	-.075	1.5
28	MP2B	X	-87.166	5.5
29	MP2B	Z	150.977	5.5
30	MP2B	Mx	-.075	5.5
31	MP2C	X	-111.045	1.5
32	MP2C	Z	192.336	1.5
33	MP2C	Mx	.182	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2C	X	-111.045	5.5
35	MP2C	Z	192.336	5.5
36	MP2C	Mx	.182	5.5
37	MP1A	X	-45.037	2.5
38	MP1A	Z	78.007	2.5
39	MP1A	Mx	.025	2.5
40	MP1A	X	-45.037	4.5
41	MP1A	Z	78.007	4.5
42	MP1A	Mx	.025	4.5
43	MP1B	X	-22.145	2.5
44	MP1B	Z	38.357	2.5
45	MP1B	Mx	-.022	2.5
46	MP1B	X	-22.145	4.5
47	MP1B	Z	38.357	4.5
48	MP1B	Mx	-.022	4.5
49	MP1C	X	-49.117	2.5
50	MP1C	Z	85.073	2.5
51	MP1C	Mx	.022	2.5
52	MP1C	X	-49.117	4.5
53	MP1C	Z	85.073	4.5
54	MP1C	Mx	.022	4.5
55	MP2A	X	-39.671	2.5
56	MP2A	Z	68.713	2.5
57	MP2A	Mx	-.022	2.5
58	MP2B	X	-29.746	2.5
59	MP2B	Z	51.521	2.5
60	MP2B	Mx	.03	2.5
61	MP2C	X	-41.44	2.5
62	MP2C	Z	71.776	2.5
63	MP2C	Mx	-.018	2.5
64	MP1A	X	-37.914	1.5
65	MP1A	Z	65.668	1.5
66	MP1A	Mx	-.021	1.5
67	MP1B	X	-24.186	1.5
68	MP1B	Z	41.891	1.5
69	MP1B	Mx	.024	1.5
70	MP1C	X	-40.36	1.5
71	MP1C	Z	69.905	1.5
72	MP1C	Mx	-.018	1.5
73	MP3A	X	-80.22	2
74	MP3A	Z	138.946	2
75	MP3A	Mx	-.045	2
76	MP3B	X	-59.708	2
77	MP3B	Z	103.417	2
78	MP3B	Mx	.059	2
79	MP4A	X	-53.723	2
80	MP4A	Z	93.051	2
81	MP4A	Mx	.03	2
82	MP4A	X	-53.723	5
83	MP4A	Z	93.051	5
84	MP4A	Mx	.03	5
85	MP4B	X	-39.634	2
86	MP4B	Z	68.648	2
87	MP4B	Mx	-.039	2
88	MP4B	X	-39.634	5
89	MP4B	Z	68.648	5
90	MP4B	Mx	-.039	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP4C	X	-56.233	2
92	MP4C	Z	97.399	2
93	MP4C	Mx	.025	2
94	MP4C	X	-56.233	5
95	MP4C	Z	97.399	5
96	MP4C	Mx	.025	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-160.383	1.5
2	MP2A	Z	92.597	1.5
3	MP2A	Mx	.137	1.5
4	MP2A	X	-160.383	5.5
5	MP2A	Z	92.597	5.5
6	MP2A	Mx	.137	5.5
7	MP2B	X	-158.996	1.5
8	MP2B	Z	91.796	1.5
9	MP2B	Mx	-.034	1.5
10	MP2B	X	-158.996	5.5
11	MP2B	Z	91.796	5.5
12	MP2B	Mx	-.034	5.5
13	MP2C	X	-202.057	1.5
14	MP2C	Z	116.658	1.5
15	MP2C	Mx	-.163	1.5
16	MP2C	X	-202.057	5.5
17	MP2C	Z	116.658	5.5
18	MP2C	Mx	-.163	5.5
19	MP2A	X	-160.383	1.5
20	MP2A	Z	92.597	1.5
21	MP2A	Mx	.029	1.5
22	MP2A	X	-160.383	5.5
23	MP2A	Z	92.597	5.5
24	MP2A	Mx	.029	5.5
25	MP2B	X	-158.996	1.5
26	MP2B	Z	91.796	1.5
27	MP2B	Mx	-.134	1.5
28	MP2B	X	-158.996	5.5
29	MP2B	Z	91.796	5.5
30	MP2B	Mx	-.134	5.5
31	MP2C	X	-202.057	1.5
32	MP2C	Z	116.658	1.5
33	MP2C	Mx	.147	1.5
34	MP2C	X	-202.057	5.5
35	MP2C	Z	116.658	5.5
36	MP2C	Mx	.147	5.5
37	MP1A	X	-48.982	2.5
38	MP1A	Z	28.279	2.5
39	MP1A	Mx	.025	2.5
40	MP1A	X	-48.982	4.5
41	MP1A	Z	28.279	4.5
42	MP1A	Mx	.025	4.5
43	MP1B	X	-47.414	2.5
44	MP1B	Z	27.375	2.5
45	MP1B	Mx	-.025	2.5
46	MP1B	X	-47.414	4.5
47	MP1B	Z	27.375	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP1B	Mx	-.025	4.5
49	MP1C	X	-96.053	2.5
50	MP1C	Z	55.456	2.5
51	MP1C	Mx	-.004	2.5
52	MP1C	X	-96.053	4.5
53	MP1C	Z	55.456	4.5
54	MP1C	Mx	-.004	4.5
55	MP2A	X	-56.128	2.5
56	MP2A	Z	32.406	2.5
57	MP2A	Mx	-.029	2.5
58	MP2B	X	-55.449	2.5
59	MP2B	Z	32.013	2.5
60	MP2B	Mx	.029	2.5
61	MP2C	X	-76.537	2.5
62	MP2C	Z	44.189	2.5
63	MP2C	Mx	.003	2.5
64	MP1A	X	-48.263	1.5
65	MP1A	Z	27.865	1.5
66	MP1A	Mx	-.025	1.5
67	MP1B	X	-47.323	1.5
68	MP1B	Z	27.322	1.5
69	MP1B	Mx	.025	1.5
70	MP1C	X	-76.489	1.5
71	MP1C	Z	44.161	1.5
72	MP1C	Mx	.003	1.5
73	MP3A	X	-112.937	2
74	MP3A	Z	65.204	2
75	MP3A	Mx	-.059	2
76	MP3B	X	-111.533	2
77	MP3B	Z	64.394	2
78	MP3B	Mx	.059	2
79	MP4A	X	-75.187	2
80	MP4A	Z	43.409	2
81	MP4A	Mx	.039	2
82	MP4A	X	-75.187	5
83	MP4A	Z	43.409	5
84	MP4A	Mx	.039	5
85	MP4B	X	-74.223	2
86	MP4B	Z	42.853	2
87	MP4B	Mx	-.039	2
88	MP4B	X	-74.223	5
89	MP4B	Z	42.853	5
90	MP4B	Mx	-.039	5
91	MP4C	X	-104.157	2
92	MP4C	Z	60.135	2
93	MP4C	Mx	-.004	2
94	MP4C	X	-104.157	5
95	MP4C	Z	60.135	5
96	MP4C	Mx	-.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-173.97	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.079	1.5
4	MP2A	X	-173.97	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	0	5.5
6	MP2A	Mx	.079	5.5
7	MP2B	X	-212.902	1.5
8	MP2B	Z	0	1.5
9	MP2B	Mx	.052	1.5
10	MP2B	X	-212.902	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.052	5.5
13	MP2C	X	-214.868	1.5
14	MP2C	Z	0	1.5
15	MP2C	Mx	-.179	1.5
16	MP2C	X	-214.868	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.179	5.5
19	MP2A	X	-173.97	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	.095	1.5
22	MP2A	X	-173.97	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.095	5.5
25	MP2B	X	-212.902	1.5
26	MP2B	Z	0	1.5
27	MP2B	Mx	-.177	1.5
28	MP2B	X	-212.902	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.177	5.5
31	MP2C	X	-214.868	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	.059	1.5
34	MP2C	X	-214.868	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.059	5.5
37	MP1A	X	-43.88	2.5
38	MP1A	Z	0	2.5
39	MP1A	Mx	.022	2.5
40	MP1A	X	-43.88	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	.022	4.5
43	MP1B	X	-87.855	2.5
44	MP1B	Z	0	2.5
45	MP1B	Mx	-.026	2.5
46	MP1B	X	-87.855	4.5
47	MP1B	Z	0	4.5
48	MP1B	Mx	-.026	4.5
49	MP1C	X	-90.075	2.5
50	MP1C	Z	0	2.5
51	MP1C	Mx	-.025	2.5
52	MP1C	X	-90.075	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	-.025	4.5
55	MP2A	X	-59.314	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	-.03	2.5
58	MP2B	X	-78.38	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	.023	2.5
61	MP2C	X	-79.343	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP2C	Z	0	2.5
63	MP2C	Mx	.022	2.5
64	MP1A	X	-48.126	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.024	1.5
67	MP1B	X	-74.496	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.022	1.5
70	MP1C	X	-75.827	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	.021	1.5
73	MP3A	X	-119.048	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.059	2
76	MP3B	X	-158.451	2
77	MP3B	Z	0	2
78	MP3B	Mx	.047	2
79	MP4A	X	-79.016	2
80	MP4A	Z	0	2
81	MP4A	Mx	.039	2
82	MP4A	X	-79.016	5
83	MP4A	Z	0	5
84	MP4A	Mx	.039	5
85	MP4B	X	-106.079	2
86	MP4B	Z	0	2
87	MP4B	Mx	-.031	2
88	MP4B	X	-106.079	5
89	MP4B	Z	0	5
90	MP4B	Mx	-.031	5
91	MP4C	X	-107.446	2
92	MP4C	Z	0	2
93	MP4C	Mx	-.03	2
94	MP4C	X	-107.446	5
95	MP4C	Z	0	5
96	MP4C	Mx	-.03	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-166.639	1.5
2	MP2A	Z	-96.209	1.5
3	MP2A	Mx	.008	1.5
4	MP2A	X	-166.639	5.5
5	MP2A	Z	-96.209	5.5
6	MP2A	Mx	.008	5.5
7	MP2B	X	-201.743	1.5
8	MP2B	Z	-116.476	1.5
9	MP2B	Mx	.142	1.5
10	MP2B	X	-201.743	5.5
11	MP2B	Z	-116.476	5.5
12	MP2B	Mx	.142	5.5
13	MP2C	X	-160.383	1.5
14	MP2C	Z	-92.597	1.5
15	MP2C	Mx	-.137	1.5
16	MP2C	X	-160.383	5.5
17	MP2C	Z	-92.597	5.5
18	MP2C	Mx	-.137	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP2A	X	-166.639	1.5
20	MP2A	Z	-96.209	1.5
21	MP2A	Mx	.151	1.5
22	MP2A	X	-166.639	5.5
23	MP2A	Z	-96.209	5.5
24	MP2A	Mx	.151	5.5
25	MP2B	X	-201.743	1.5
26	MP2B	Z	-116.476	1.5
27	MP2B	Mx	-.167	1.5
28	MP2B	X	-201.743	5.5
29	MP2B	Z	-116.476	5.5
30	MP2B	Mx	-.167	5.5
31	MP2C	X	-160.383	1.5
32	MP2C	Z	-92.597	1.5
33	MP2C	Mx	-.029	1.5
34	MP2C	X	-160.383	5.5
35	MP2C	Z	-92.597	5.5
36	MP2C	Mx	-.029	5.5
37	MP1A	X	-56.047	2.5
38	MP1A	Z	-32.359	2.5
39	MP1A	Mx	.027	2.5
40	MP1A	X	-56.047	4.5
41	MP1A	Z	-32.359	4.5
42	MP1A	Mx	.027	4.5
43	MP1B	X	-95.698	2.5
44	MP1B	Z	-55.251	2.5
45	MP1B	Mx	-.006	2.5
46	MP1B	X	-95.698	4.5
47	MP1B	Z	-55.251	4.5
48	MP1B	Mx	-.006	4.5
49	MP1C	X	-48.982	2.5
50	MP1C	Z	-28.279	2.5
51	MP1C	Mx	-.025	2.5
52	MP1C	X	-48.982	4.5
53	MP1C	Z	-28.279	4.5
54	MP1C	Mx	-.025	4.5
55	MP2A	X	-59.191	2.5
56	MP2A	Z	-34.174	2.5
57	MP2A	Mx	-.028	2.5
58	MP2B	X	-76.383	2.5
59	MP2B	Z	-44.1	2.5
60	MP2B	Mx	.005	2.5
61	MP2C	X	-56.128	2.5
62	MP2C	Z	-32.406	2.5
63	MP2C	Mx	.029	2.5
64	MP1A	X	-52.5	1.5
65	MP1A	Z	-30.311	1.5
66	MP1A	Mx	-.025	1.5
67	MP1B	X	-76.276	1.5
68	MP1B	Z	-44.038	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	-48.263	1.5
71	MP1C	Z	-27.865	1.5
72	MP1C	Mx	.025	1.5
73	MP3A	X	-119.268	2
74	MP3A	Z	-68.86	2
75	MP3A	Mx	-.057	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP3B	X	-154.797	2
77	MP3B	Z	-89.372	2
78	MP3B	Mx	.009	2
79	MP4A	X	-79.536	2
80	MP4A	Z	-45.92	2
81	MP4A	Mx	.038	2
82	MP4A	X	-79.536	5
83	MP4A	Z	-45.92	5
84	MP4A	Mx	.038	5
85	MP4B	X	-103.938	2
86	MP4B	Z	-60.009	2
87	MP4B	Mx	-.006	2
88	MP4B	X	-103.938	5
89	MP4B	Z	-60.009	5
90	MP4B	Mx	-.006	5
91	MP4C	X	-75.187	2
92	MP4C	Z	-43.409	2
93	MP4C	Mx	-.039	2
94	MP4C	X	-75.187	5
95	MP4C	Z	-43.409	5
96	MP4C	Mx	-.039	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-111.045	1.5
2	MP2A	Z	-192.336	1.5
3	MP2A	Mx	-.084	1.5
4	MP2A	X	-111.045	5.5
5	MP2A	Z	-192.336	5.5
6	MP2A	Mx	-.084	5.5
7	MP2B	X	-111.847	1.5
8	MP2B	Z	-193.724	1.5
9	MP2B	Mx	.182	1.5
10	MP2B	X	-111.847	5.5
11	MP2B	Z	-193.724	5.5
12	MP2B	Mx	.182	5.5
13	MP2C	X	-86.985	1.5
14	MP2C	Z	-150.662	1.5
15	MP2C	Mx	-.079	1.5
16	MP2C	X	-86.985	5.5
17	MP2C	Z	-150.662	5.5
18	MP2C	Mx	-.079	5.5
19	MP2A	X	-111.045	1.5
20	MP2A	Z	-192.336	1.5
21	MP2A	Mx	.182	1.5
22	MP2A	X	-111.045	5.5
23	MP2A	Z	-192.336	5.5
24	MP2A	Mx	.182	5.5
25	MP2B	X	-111.847	1.5
26	MP2B	Z	-193.724	1.5
27	MP2B	Mx	-.091	1.5
28	MP2B	X	-111.847	5.5
29	MP2B	Z	-193.724	5.5
30	MP2B	Mx	-.091	5.5
31	MP2C	X	-86.985	1.5
32	MP2C	Z	-150.662	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	-.095	1.5
34	MP2C	X	-86.985	5.5
35	MP2C	Z	-150.662	5.5
36	MP2C	Mx	-.095	5.5
37	MP1A	X	-49.117	2.5
38	MP1A	Z	-85.073	2.5
39	MP1A	Mx	.022	2.5
40	MP1A	X	-49.117	4.5
41	MP1A	Z	-85.073	4.5
42	MP1A	Mx	.022	4.5
43	MP1B	X	-50.022	2.5
44	MP1B	Z	-86.64	2.5
45	MP1B	Mx	.02	2.5
46	MP1B	X	-50.022	4.5
47	MP1B	Z	-86.64	4.5
48	MP1B	Mx	.02	4.5
49	MP1C	X	-21.94	2.5
50	MP1C	Z	-38.001	2.5
51	MP1C	Mx	-.022	2.5
52	MP1C	X	-21.94	4.5
53	MP1C	Z	-38.001	4.5
54	MP1C	Mx	-.022	4.5
55	MP2A	X	-41.44	2.5
56	MP2A	Z	-71.776	2.5
57	MP2A	Mx	-.018	2.5
58	MP2B	X	-41.832	2.5
59	MP2B	Z	-72.456	2.5
60	MP2B	Mx	-.017	2.5
61	MP2C	X	-29.657	2.5
62	MP2C	Z	-51.367	2.5
63	MP2C	Mx	.03	2.5
64	MP1A	X	-40.36	1.5
65	MP1A	Z	-69.905	1.5
66	MP1A	Mx	-.018	1.5
67	MP1B	X	-40.902	1.5
68	MP1B	Z	-70.845	1.5
69	MP1B	Mx	-.017	1.5
70	MP1C	X	-24.063	1.5
71	MP1C	Z	-41.678	1.5
72	MP1C	Mx	.024	1.5
73	MP3A	X	-83.876	2
74	MP3A	Z	-145.277	2
75	MP3A	Mx	-.037	2
76	MP3B	X	-84.686	2
77	MP3B	Z	-146.681	2
78	MP3B	Mx	-.034	2
79	MP4A	X	-56.233	2
80	MP4A	Z	-97.399	2
81	MP4A	Mx	.025	2
82	MP4A	X	-56.233	5
83	MP4A	Z	-97.399	5
84	MP4A	Mx	.025	5
85	MP4B	X	-56.79	2
86	MP4B	Z	-98.364	2
87	MP4B	Mx	.023	2
88	MP4B	X	-56.79	5
89	MP4B	Z	-98.364	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP4B	Mx	.023	5
91	MP4C	X	-39.508	2
92	MP4C	Z	-68.43	2
93	MP4C	Mx	-.039	2
94	MP4C	X	-39.508	5
95	MP4C	Z	-68.43	5
96	MP4C	Mx	-.039	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-39.428	1.5
3	MP2A	Mx	-.028	1.5
4	MP2A	X	0	5.5
5	MP2A	Z	-39.428	5.5
6	MP2A	Mx	-.028	5.5
7	MP2B	X	0	1.5
8	MP2B	Z	-33.183	1.5
9	MP2B	Mx	.026	1.5
10	MP2B	X	0	5.5
11	MP2B	Z	-33.183	5.5
12	MP2B	Mx	.026	5.5
13	MP2C	X	0	1.5
14	MP2C	Z	-32.868	1.5
15	MP2C	Mx	-.001	1.5
16	MP2C	X	0	5.5
17	MP2C	Z	-32.868	5.5
18	MP2C	Mx	-.001	5.5
19	MP2A	X	0	1.5
20	MP2A	Z	-39.428	1.5
21	MP2A	Mx	.025	1.5
22	MP2A	X	0	5.5
23	MP2A	Z	-39.428	5.5
24	MP2A	Mx	.025	5.5
25	MP2B	X	0	1.5
26	MP2B	Z	-33.183	1.5
27	MP2B	Mx	.00042	1.5
28	MP2B	X	0	5.5
29	MP2B	Z	-33.183	5.5
30	MP2B	Mx	.00042	5.5
31	MP2C	X	0	1.5
32	MP2C	Z	-32.868	1.5
33	MP2C	Mx	-.026	1.5
34	MP2C	X	0	5.5
35	MP2C	Z	-32.868	5.5
36	MP2C	Mx	-.026	5.5
37	MP1A	X	0	2.5
38	MP1A	Z	-19.418	2.5
39	MP1A	Mx	-.000677	2.5
40	MP1A	X	0	4.5
41	MP1A	Z	-19.418	4.5
42	MP1A	Mx	-.000677	4.5
43	MP1B	X	0	2.5
44	MP1B	Z	-12.155	2.5
45	MP1B	Mx	.005	2.5
46	MP1B	X	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP1B	Z	-12.155	4.5
48	MP1B	Mx	.005	4.5
49	MP1C	X	0	2.5
50	MP1C	Z	-11.789	2.5
51	MP1C	Mx	-.005	2.5
52	MP1C	X	0	4.5
53	MP1C	Z	-11.789	4.5
54	MP1C	Mx	-.005	4.5
55	MP2A	X	0	2.5
56	MP2A	Z	-16.385	2.5
57	MP2A	Mx	.000571	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	-13.139	2.5
60	MP2B	Mx	-.005	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	-12.975	2.5
63	MP2C	Mx	.005	2.5
64	MP1A	X	0	1.5
65	MP1A	Z	-16.376	1.5
66	MP1A	Mx	.000571	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-11.896	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-11.67	1.5
72	MP1C	Mx	.005	1.5
73	MP3A	X	0	2
74	MP3A	Z	-31.545	2
75	MP3A	Mx	.001	2
76	MP3B	X	0	2
77	MP3B	Z	-25.058	2
78	MP3B	Mx	-.01	2
79	MP4A	X	0	2
80	MP4A	Z	-20.977	2
81	MP4A	Mx	-.000732	2
82	MP4A	X	0	5
83	MP4A	Z	-20.977	5
84	MP4A	Mx	-.000732	5
85	MP4B	X	0	2
86	MP4B	Z	-16.589	2
87	MP4B	Mx	.007	2
88	MP4B	X	0	5
89	MP4B	Z	-16.589	5
90	MP4B	Mx	.007	5
91	MP4C	X	0	2
92	MP4C	Z	-16.368	2
93	MP4C	Mx	-.007	2
94	MP4C	X	0	5
95	MP4C	Z	-16.368	5
96	MP4C	Mx	-.007	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	18.235	1.5
2	MP2A	Z	-31.583	1.5
3	MP2A	Mx	-.03	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	18.235	5.5
5	MP2A	Z	-31.583	5.5
6	MP2A	Mx	-.03	5.5
7	MP2B	X	14.983	1.5
8	MP2B	Z	-25.952	1.5
9	MP2B	Mx	.017	1.5
10	MP2B	X	14.983	5.5
11	MP2B	Z	-25.952	5.5
12	MP2B	Mx	.017	5.5
13	MP2C	X	18.814	1.5
14	MP2C	Z	-32.587	1.5
15	MP2C	Mx	.014	1.5
16	MP2C	X	18.814	5.5
17	MP2C	Z	-32.587	5.5
18	MP2C	Mx	.014	5.5
19	MP2A	X	18.235	1.5
20	MP2A	Z	-31.583	1.5
21	MP2A	Mx	.01	1.5
22	MP2A	X	18.235	5.5
23	MP2A	Z	-31.583	5.5
24	MP2A	Mx	.01	5.5
25	MP2B	X	14.983	1.5
26	MP2B	Z	-25.952	1.5
27	MP2B	Mx	.013	1.5
28	MP2B	X	14.983	5.5
29	MP2B	Z	-25.952	5.5
30	MP2B	Mx	.013	5.5
31	MP2C	X	18.814	1.5
32	MP2C	Z	-32.587	1.5
33	MP2C	Mx	-.031	1.5
34	MP2C	X	18.814	5.5
35	MP2C	Z	-32.587	5.5
36	MP2C	Mx	-.031	5.5
37	MP1A	X	7.988	2.5
38	MP1A	Z	-13.836	2.5
39	MP1A	Mx	-.004	2.5
40	MP1A	X	7.988	4.5
41	MP1A	Z	-13.836	4.5
42	MP1A	Mx	-.004	4.5
43	MP1B	X	4.207	2.5
44	MP1B	Z	-7.287	2.5
45	MP1B	Mx	.004	2.5
46	MP1B	X	4.207	4.5
47	MP1B	Z	-7.287	4.5
48	MP1B	Mx	.004	4.5
49	MP1C	X	8.662	2.5
50	MP1C	Z	-15.003	2.5
51	MP1C	Mx	-.004	2.5
52	MP1C	X	8.662	4.5
53	MP1C	Z	-15.003	4.5
54	MP1C	Mx	-.004	4.5
55	MP2A	X	7.423	2.5
56	MP2A	Z	-12.858	2.5
57	MP2A	Mx	.004	2.5
58	MP2B	X	5.734	2.5
59	MP2B	Z	-9.931	2.5
60	MP2B	Mx	-.006	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2C	X	7.725	2.5
62	MP2C	Z	-13.379	2.5
63	MP2C	Mx	.003	2.5
64	MP1A	X	7.127	1.5
65	MP1A	Z	-12.344	1.5
66	MP1A	Mx	.004	1.5
67	MP1B	X	4.795	1.5
68	MP1B	Z	-8.305	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	7.542	1.5
71	MP1C	Z	-13.063	1.5
72	MP1C	Mx	.003	1.5
73	MP3A	X	14.235	2
74	MP3A	Z	-24.656	2
75	MP3A	Mx	.008	2
76	MP3B	X	10.858	2
77	MP3B	Z	-18.807	2
78	MP3B	Mx	-.011	2
79	MP4A	X	9.449	2
80	MP4A	Z	-16.366	2
81	MP4A	Mx	-.005	2
82	MP4A	X	9.449	5
83	MP4A	Z	-16.366	5
84	MP4A	Mx	-.005	5
85	MP4B	X	7.165	2
86	MP4B	Z	-12.409	2
87	MP4B	Mx	.007	2
88	MP4B	X	7.165	5
89	MP4B	Z	-12.409	5
90	MP4B	Mx	.007	5
91	MP4C	X	9.856	2
92	MP4C	Z	-17.071	2
93	MP4C	Mx	-.004	2
94	MP4C	X	9.856	5
95	MP4C	Z	-17.071	5
96	MP4C	Mx	-.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	27.461	1.5
2	MP2A	Z	-15.855	1.5
3	MP2A	Mx	-.024	1.5
4	MP2A	X	27.461	5.5
5	MP2A	Z	-15.855	5.5
6	MP2A	Mx	-.024	5.5
7	MP2B	X	27.238	1.5
8	MP2B	Z	-15.726	1.5
9	MP2B	Mx	.006	1.5
10	MP2B	X	27.238	5.5
11	MP2B	Z	-15.726	5.5
12	MP2B	Mx	.006	5.5
13	MP2C	X	34.146	1.5
14	MP2C	Z	-19.714	1.5
15	MP2C	Mx	.028	1.5
16	MP2C	X	34.146	5.5
17	MP2C	Z	-19.714	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	.028	5.5
19	MP2A	X	27.461	1.5
20	MP2A	Z	-15.855	1.5
21	MP2A	Mx	-.005	1.5
22	MP2A	X	27.461	5.5
23	MP2A	Z	-15.855	5.5
24	MP2A	Mx	-.005	5.5
25	MP2B	X	27.238	1.5
26	MP2B	Z	-15.726	1.5
27	MP2B	Mx	.023	1.5
28	MP2B	X	27.238	5.5
29	MP2B	Z	-15.726	5.5
30	MP2B	Mx	.023	5.5
31	MP2C	X	34.146	1.5
32	MP2C	Z	-19.714	1.5
33	MP2C	Mx	-.025	1.5
34	MP2C	X	34.146	5.5
35	MP2C	Z	-19.714	5.5
36	MP2C	Mx	-.025	5.5
37	MP1A	X	9.042	2.5
38	MP1A	Z	-5.221	2.5
39	MP1A	Mx	-.005	2.5
40	MP1A	X	9.042	4.5
41	MP1A	Z	-5.221	4.5
42	MP1A	Mx	-.005	4.5
43	MP1B	X	8.783	2.5
44	MP1B	Z	-5.071	2.5
45	MP1B	Mx	.005	2.5
46	MP1B	X	8.783	4.5
47	MP1B	Z	-5.071	4.5
48	MP1B	Mx	.005	4.5
49	MP1C	X	16.817	2.5
50	MP1C	Z	-9.709	2.5
51	MP1C	Mx	.000677	2.5
52	MP1C	X	16.817	4.5
53	MP1C	Z	-9.709	4.5
54	MP1C	Mx	.000677	4.5
55	MP2A	X	10.715	2.5
56	MP2A	Z	-6.187	2.5
57	MP2A	Mx	.006	2.5
58	MP2B	X	10.6	2.5
59	MP2B	Z	-6.12	2.5
60	MP2B	Mx	-.006	2.5
61	MP2C	X	14.19	2.5
62	MP2C	Z	-8.192	2.5
63	MP2C	Mx	-.000572	2.5
64	MP1A	X	9.387	1.5
65	MP1A	Z	-5.42	1.5
66	MP1A	Mx	.005	1.5
67	MP1B	X	9.227	1.5
68	MP1B	Z	-5.327	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	14.182	1.5
71	MP1C	Z	-8.188	1.5
72	MP1C	Mx	-.000571	1.5
73	MP3A	X	20.375	2
74	MP3A	Z	-11.763	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP3A	Mx	.011	2
76	MP3B	X	20.143	2
77	MP3B	Z	-11.63	2
78	MP3B	Mx	-.011	2
79	MP4A	X	13.47	2
80	MP4A	Z	-7.777	2
81	MP4A	Mx	-.007	2
82	MP4A	X	13.47	5
83	MP4A	Z	-7.777	5
84	MP4A	Mx	-.007	5
85	MP4B	X	13.313	2
86	MP4B	Z	-7.686	2
87	MP4B	Mx	.007	2
88	MP4B	X	13.313	5
89	MP4B	Z	-7.686	5
90	MP4B	Mx	.007	5
91	MP4C	X	18.167	2
92	MP4C	Z	-10.489	2
93	MP4C	Mx	.000732	2
94	MP4C	X	18.167	5
95	MP4C	Z	-10.489	5
96	MP4C	Mx	.000732	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	29.908	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.014	1.5
4	MP2A	X	29.908	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.014	5.5
7	MP2B	X	36.154	1.5
8	MP2B	Z	0	1.5
9	MP2B	Mx	-.009	1.5
10	MP2B	X	36.154	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.009	5.5
13	MP2C	X	36.469	1.5
14	MP2C	Z	0	1.5
15	MP2C	Mx	.03	1.5
16	MP2C	X	36.469	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.03	5.5
19	MP2A	X	29.908	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	-.016	1.5
22	MP2A	X	29.908	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.016	5.5
25	MP2B	X	36.154	1.5
26	MP2B	Z	0	1.5
27	MP2B	Mx	.03	1.5
28	MP2B	X	36.154	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.03	5.5
31	MP2C	X	36.469	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2C	Z	0	1.5
33	MP2C	Mx	-.01	1.5
34	MP2C	X	36.469	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.01	5.5
37	MP1A	X	8.347	2.5
38	MP1A	Z	0	2.5
39	MP1A	Mx	-.004	2.5
40	MP1A	X	8.347	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	-.004	4.5
43	MP1B	X	15.61	2.5
44	MP1B	Z	0	2.5
45	MP1B	Mx	.005	2.5
46	MP1B	X	15.61	4.5
47	MP1B	Z	0	4.5
48	MP1B	Mx	.005	4.5
49	MP1C	X	15.977	2.5
50	MP1C	Z	0	2.5
51	MP1C	Mx	.004	2.5
52	MP1C	X	15.977	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	.004	4.5
55	MP2A	X	11.437	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	.006	2.5
58	MP2B	X	14.683	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	-.004	2.5
61	MP2C	X	14.847	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	-.004	2.5
64	MP1A	X	9.548	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.005	1.5
67	MP1B	X	14.027	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.004	1.5
70	MP1C	X	14.253	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.004	1.5
73	MP3A	X	21.656	2
74	MP3A	Z	0	2
75	MP3A	Mx	.011	2
76	MP3B	X	28.143	2
77	MP3B	Z	0	2
78	MP3B	Mx	-.008	2
79	MP4A	X	14.288	2
80	MP4A	Z	0	2
81	MP4A	Mx	-.007	2
82	MP4A	X	14.288	5
83	MP4A	Z	0	5
84	MP4A	Mx	-.007	5
85	MP4B	X	18.676	2
86	MP4B	Z	0	2
87	MP4B	Mx	.005	2
88	MP4B	X	18.676	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4B	Z	0	5
90	MP4B	Mx	.005	5
91	MP4C	X	18.898	2
92	MP4C	Z	0	2
93	MP4C	Mx	.005	2
94	MP4C	X	18.898	5
95	MP4C	Z	0	5
96	MP4C	Mx	.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	28.464	1.5
2	MP2A	Z	16.434	1.5
3	MP2A	Mx	-.001	1.5
4	MP2A	X	28.464	5.5
5	MP2A	Z	16.434	5.5
6	MP2A	Mx	-.001	5.5
7	MP2B	X	34.096	1.5
8	MP2B	Z	19.685	1.5
9	MP2B	Mx	-.024	1.5
10	MP2B	X	34.096	5.5
11	MP2B	Z	19.685	5.5
12	MP2B	Mx	-.024	5.5
13	MP2C	X	27.461	1.5
14	MP2C	Z	15.855	1.5
15	MP2C	Mx	.024	1.5
16	MP2C	X	27.461	5.5
17	MP2C	Z	15.855	5.5
18	MP2C	Mx	.024	5.5
19	MP2A	X	28.464	1.5
20	MP2A	Z	16.434	1.5
21	MP2A	Mx	-.026	1.5
22	MP2A	X	28.464	5.5
23	MP2A	Z	16.434	5.5
24	MP2A	Mx	-.026	5.5
25	MP2B	X	34.096	1.5
26	MP2B	Z	19.685	1.5
27	MP2B	Mx	.028	1.5
28	MP2B	X	34.096	5.5
29	MP2B	Z	19.685	5.5
30	MP2B	Mx	.028	5.5
31	MP2C	X	27.461	1.5
32	MP2C	Z	15.855	1.5
33	MP2C	Mx	.005	1.5
34	MP2C	X	27.461	5.5
35	MP2C	Z	15.855	5.5
36	MP2C	Mx	.005	5.5
37	MP1A	X	10.209	2.5
38	MP1A	Z	5.894	2.5
39	MP1A	Mx	-.005	2.5
40	MP1A	X	10.209	4.5
41	MP1A	Z	5.894	4.5
42	MP1A	Mx	-.005	4.5
43	MP1B	X	16.758	2.5
44	MP1B	Z	9.675	2.5
45	MP1B	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP1B	X	16.758	4.5
47	MP1B	Z	9.675	4.5
48	MP1B	Mx	.001	4.5
49	MP1C	X	9.042	2.5
50	MP1C	Z	5.221	2.5
51	MP1C	Mx	.005	2.5
52	MP1C	X	9.042	4.5
53	MP1C	Z	5.221	4.5
54	MP1C	Mx	.005	4.5
55	MP2A	X	11.237	2.5
56	MP2A	Z	6.488	2.5
57	MP2A	Mx	.005	2.5
58	MP2B	X	14.163	2.5
59	MP2B	Z	8.177	2.5
60	MP2B	Mx	-.000855	2.5
61	MP2C	X	10.715	2.5
62	MP2C	Z	6.187	2.5
63	MP2C	Mx	-.006	2.5
64	MP1A	X	10.107	1.5
65	MP1A	Z	5.835	1.5
66	MP1A	Mx	.005	1.5
67	MP1B	X	14.145	1.5
68	MP1B	Z	8.167	1.5
69	MP1B	Mx	-.000853	1.5
70	MP1C	X	9.387	1.5
71	MP1C	Z	5.42	1.5
72	MP1C	Mx	-.005	1.5
73	MP3A	X	21.417	2
74	MP3A	Z	12.365	2
75	MP3A	Mx	.01	2
76	MP3B	X	27.266	2
77	MP3B	Z	15.742	2
78	MP3B	Mx	-.002	2
79	MP4A	X	14.175	2
80	MP4A	Z	8.184	2
81	MP4A	Mx	-.007	2
82	MP4A	X	14.175	5
83	MP4A	Z	8.184	5
84	MP4A	Mx	-.007	5
85	MP4B	X	18.131	2
86	MP4B	Z	10.468	2
87	MP4B	Mx	.001	2
88	MP4B	X	18.131	5
89	MP4B	Z	10.468	5
90	MP4B	Mx	.001	5
91	MP4C	X	13.47	2
92	MP4C	Z	7.777	2
93	MP4C	Mx	.007	2
94	MP4C	X	13.47	5
95	MP4C	Z	7.777	5
96	MP4C	Mx	.007	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	18.814	1.5
2	MP2A	Z	32.587	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	.014	1.5
4	MP2A	X	18.814	5.5
5	MP2A	Z	32.587	5.5
6	MP2A	Mx	.014	5.5
7	MP2B	X	18.942	1.5
8	MP2B	Z	32.809	1.5
9	MP2B	Mx	-.031	1.5
10	MP2B	X	18.942	5.5
11	MP2B	Z	32.809	5.5
12	MP2B	Mx	-.031	5.5
13	MP2C	X	14.954	1.5
14	MP2C	Z	25.901	1.5
15	MP2C	Mx	.014	1.5
16	MP2C	X	14.954	5.5
17	MP2C	Z	25.901	5.5
18	MP2C	Mx	.014	5.5
19	MP2A	X	18.814	1.5
20	MP2A	Z	32.587	1.5
21	MP2A	Mx	-.031	1.5
22	MP2A	X	18.814	5.5
23	MP2A	Z	32.587	5.5
24	MP2A	Mx	-.031	5.5
25	MP2B	X	18.942	1.5
26	MP2B	Z	32.809	1.5
27	MP2B	Mx	.015	1.5
28	MP2B	X	18.942	5.5
29	MP2B	Z	32.809	5.5
30	MP2B	Mx	.015	5.5
31	MP2C	X	14.954	1.5
32	MP2C	Z	25.901	1.5
33	MP2C	Mx	.016	1.5
34	MP2C	X	14.954	5.5
35	MP2C	Z	25.901	5.5
36	MP2C	Mx	.016	5.5
37	MP1A	X	8.662	2.5
38	MP1A	Z	15.003	2.5
39	MP1A	Mx	-.004	2.5
40	MP1A	X	8.662	4.5
41	MP1A	Z	15.003	4.5
42	MP1A	Mx	-.004	4.5
43	MP1B	X	8.811	2.5
44	MP1B	Z	15.262	2.5
45	MP1B	Mx	-.004	2.5
46	MP1B	X	8.811	4.5
47	MP1B	Z	15.262	4.5
48	MP1B	Mx	-.004	4.5
49	MP1C	X	4.174	2.5
50	MP1C	Z	7.229	2.5
51	MP1C	Mx	.004	2.5
52	MP1C	X	4.174	4.5
53	MP1C	Z	7.229	4.5
54	MP1C	Mx	.004	4.5
55	MP2A	X	7.725	2.5
56	MP2A	Z	13.379	2.5
57	MP2A	Mx	.003	2.5
58	MP2B	X	7.791	2.5
59	MP2B	Z	13.495	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2B	Mx	.003	2.5
61	MP2C	X	5.719	2.5
62	MP2C	Z	9.905	2.5
63	MP2C	Mx	-.006	2.5
64	MP1A	X	7.542	1.5
65	MP1A	Z	13.063	1.5
66	MP1A	Mx	.003	1.5
67	MP1B	X	7.634	1.5
68	MP1B	Z	13.223	1.5
69	MP1B	Mx	.003	1.5
70	MP1C	X	4.774	1.5
71	MP1C	Z	8.269	1.5
72	MP1C	Mx	-.005	1.5
73	MP3A	X	14.837	2
74	MP3A	Z	25.699	2
75	MP3A	Mx	.007	2
76	MP3B	X	14.971	2
77	MP3B	Z	25.93	2
78	MP3B	Mx	.006	2
79	MP4A	X	9.856	2
80	MP4A	Z	17.071	2
81	MP4A	Mx	-.004	2
82	MP4A	X	9.856	5
83	MP4A	Z	17.071	5
84	MP4A	Mx	-.004	5
85	MP4B	X	9.946	2
86	MP4B	Z	17.228	2
87	MP4B	Mx	-.004	2
88	MP4B	X	9.946	5
89	MP4B	Z	17.228	5
90	MP4B	Mx	-.004	5
91	MP4C	X	7.144	2
92	MP4C	Z	12.374	2
93	MP4C	Mx	.007	2
94	MP4C	X	7.144	5
95	MP4C	Z	12.374	5
96	MP4C	Mx	.007	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	39.428	1.5
3	MP2A	Mx	.028	1.5
4	MP2A	X	0	5.5
5	MP2A	Z	39.428	5.5
6	MP2A	Mx	.028	5.5
7	MP2B	X	0	1.5
8	MP2B	Z	33.183	1.5
9	MP2B	Mx	-.026	1.5
10	MP2B	X	0	5.5
11	MP2B	Z	33.183	5.5
12	MP2B	Mx	-.026	5.5
13	MP2C	X	0	1.5
14	MP2C	Z	32.868	1.5
15	MP2C	Mx	.001	1.5
16	MP2C	X	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	32.868	5.5
18	MP2C	Mx	.001	5.5
19	MP2A	X	0	1.5
20	MP2A	Z	39.428	1.5
21	MP2A	Mx	-.025	1.5
22	MP2A	X	0	5.5
23	MP2A	Z	39.428	5.5
24	MP2A	Mx	-.025	5.5
25	MP2B	X	0	1.5
26	MP2B	Z	33.183	1.5
27	MP2B	Mx	-.00042	1.5
28	MP2B	X	0	5.5
29	MP2B	Z	33.183	5.5
30	MP2B	Mx	-.00042	5.5
31	MP2C	X	0	1.5
32	MP2C	Z	32.868	1.5
33	MP2C	Mx	.026	1.5
34	MP2C	X	0	5.5
35	MP2C	Z	32.868	5.5
36	MP2C	Mx	.026	5.5
37	MP1A	X	0	2.5
38	MP1A	Z	19.418	2.5
39	MP1A	Mx	.000677	2.5
40	MP1A	X	0	4.5
41	MP1A	Z	19.418	4.5
42	MP1A	Mx	.000677	4.5
43	MP1B	X	0	2.5
44	MP1B	Z	12.155	2.5
45	MP1B	Mx	-.005	2.5
46	MP1B	X	0	4.5
47	MP1B	Z	12.155	4.5
48	MP1B	Mx	-.005	4.5
49	MP1C	X	0	2.5
50	MP1C	Z	11.789	2.5
51	MP1C	Mx	.005	2.5
52	MP1C	X	0	4.5
53	MP1C	Z	11.789	4.5
54	MP1C	Mx	.005	4.5
55	MP2A	X	0	2.5
56	MP2A	Z	16.385	2.5
57	MP2A	Mx	-.000571	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	13.139	2.5
60	MP2B	Mx	.005	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	12.975	2.5
63	MP2C	Mx	-.005	2.5
64	MP1A	X	0	1.5
65	MP1A	Z	16.376	1.5
66	MP1A	Mx	-.000571	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	11.896	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	11.67	1.5
72	MP1C	Mx	-.005	1.5
73	MP3A	X	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3A	Z	31.545	2
75	MP3A	Mx	-.001	2
76	MP3B	X	0	2
77	MP3B	Z	25.058	2
78	MP3B	Mx	.01	2
79	MP4A	X	0	2
80	MP4A	Z	20.977	2
81	MP4A	Mx	.000732	2
82	MP4A	X	0	5
83	MP4A	Z	20.977	5
84	MP4A	Mx	.000732	5
85	MP4B	X	0	2
86	MP4B	Z	16.589	2
87	MP4B	Mx	-.007	2
88	MP4B	X	0	5
89	MP4B	Z	16.589	5
90	MP4B	Mx	-.007	5
91	MP4C	X	0	2
92	MP4C	Z	16.368	2
93	MP4C	Mx	.007	2
94	MP4C	X	0	5
95	MP4C	Z	16.368	5
96	MP4C	Mx	.007	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-18.235	1.5
2	MP2A	Z	31.583	1.5
3	MP2A	Mx	.03	1.5
4	MP2A	X	-18.235	5.5
5	MP2A	Z	31.583	5.5
6	MP2A	Mx	.03	5.5
7	MP2B	X	-14.983	1.5
8	MP2B	Z	25.952	1.5
9	MP2B	Mx	-.017	1.5
10	MP2B	X	-14.983	5.5
11	MP2B	Z	25.952	5.5
12	MP2B	Mx	-.017	5.5
13	MP2C	X	-18.814	1.5
14	MP2C	Z	32.587	1.5
15	MP2C	Mx	-.014	1.5
16	MP2C	X	-18.814	5.5
17	MP2C	Z	32.587	5.5
18	MP2C	Mx	-.014	5.5
19	MP2A	X	-18.235	1.5
20	MP2A	Z	31.583	1.5
21	MP2A	Mx	-.01	1.5
22	MP2A	X	-18.235	5.5
23	MP2A	Z	31.583	5.5
24	MP2A	Mx	-.01	5.5
25	MP2B	X	-14.983	1.5
26	MP2B	Z	25.952	1.5
27	MP2B	Mx	-.013	1.5
28	MP2B	X	-14.983	5.5
29	MP2B	Z	25.952	5.5
30	MP2B	Mx	-.013	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	-18.814	1.5
32	MP2C	Z	32.587	1.5
33	MP2C	Mx	.031	1.5
34	MP2C	X	-18.814	5.5
35	MP2C	Z	32.587	5.5
36	MP2C	Mx	.031	5.5
37	MP1A	X	-7.988	2.5
38	MP1A	Z	13.836	2.5
39	MP1A	Mx	.004	2.5
40	MP1A	X	-7.988	4.5
41	MP1A	Z	13.836	4.5
42	MP1A	Mx	.004	4.5
43	MP1B	X	-4.207	2.5
44	MP1B	Z	7.287	2.5
45	MP1B	Mx	-.004	2.5
46	MP1B	X	-4.207	4.5
47	MP1B	Z	7.287	4.5
48	MP1B	Mx	-.004	4.5
49	MP1C	X	-8.662	2.5
50	MP1C	Z	15.003	2.5
51	MP1C	Mx	.004	2.5
52	MP1C	X	-8.662	4.5
53	MP1C	Z	15.003	4.5
54	MP1C	Mx	.004	4.5
55	MP2A	X	-7.423	2.5
56	MP2A	Z	12.858	2.5
57	MP2A	Mx	-.004	2.5
58	MP2B	X	-5.734	2.5
59	MP2B	Z	9.931	2.5
60	MP2B	Mx	.006	2.5
61	MP2C	X	-7.725	2.5
62	MP2C	Z	13.379	2.5
63	MP2C	Mx	-.003	2.5
64	MP1A	X	-7.127	1.5
65	MP1A	Z	12.344	1.5
66	MP1A	Mx	-.004	1.5
67	MP1B	X	-4.795	1.5
68	MP1B	Z	8.305	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	-7.542	1.5
71	MP1C	Z	13.063	1.5
72	MP1C	Mx	-.003	1.5
73	MP3A	X	-14.235	2
74	MP3A	Z	24.656	2
75	MP3A	Mx	-.008	2
76	MP3B	X	-10.858	2
77	MP3B	Z	18.807	2
78	MP3B	Mx	.011	2
79	MP4A	X	-9.449	2
80	MP4A	Z	16.366	2
81	MP4A	Mx	.005	2
82	MP4A	X	-9.449	5
83	MP4A	Z	16.366	5
84	MP4A	Mx	.005	5
85	MP4B	X	-7.165	2
86	MP4B	Z	12.409	2
87	MP4B	Mx	-.007	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP4B	X	-7.165	5
89	MP4B	Z	12.409	5
90	MP4B	Mx	-.007	5
91	MP4C	X	-9.856	2
92	MP4C	Z	17.071	2
93	MP4C	Mx	.004	2
94	MP4C	X	-9.856	5
95	MP4C	Z	17.071	5
96	MP4C	Mx	.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-27.461	1.5
2	MP2A	Z	15.855	1.5
3	MP2A	Mx	.024	1.5
4	MP2A	X	-27.461	5.5
5	MP2A	Z	15.855	5.5
6	MP2A	Mx	.024	5.5
7	MP2B	X	-27.238	1.5
8	MP2B	Z	15.726	1.5
9	MP2B	Mx	-.006	1.5
10	MP2B	X	-27.238	5.5
11	MP2B	Z	15.726	5.5
12	MP2B	Mx	-.006	5.5
13	MP2C	X	-34.146	1.5
14	MP2C	Z	19.714	1.5
15	MP2C	Mx	-.028	1.5
16	MP2C	X	-34.146	5.5
17	MP2C	Z	19.714	5.5
18	MP2C	Mx	-.028	5.5
19	MP2A	X	-27.461	1.5
20	MP2A	Z	15.855	1.5
21	MP2A	Mx	.005	1.5
22	MP2A	X	-27.461	5.5
23	MP2A	Z	15.855	5.5
24	MP2A	Mx	.005	5.5
25	MP2B	X	-27.238	1.5
26	MP2B	Z	15.726	1.5
27	MP2B	Mx	-.023	1.5
28	MP2B	X	-27.238	5.5
29	MP2B	Z	15.726	5.5
30	MP2B	Mx	-.023	5.5
31	MP2C	X	-34.146	1.5
32	MP2C	Z	19.714	1.5
33	MP2C	Mx	.025	1.5
34	MP2C	X	-34.146	5.5
35	MP2C	Z	19.714	5.5
36	MP2C	Mx	.025	5.5
37	MP1A	X	-9.042	2.5
38	MP1A	Z	5.221	2.5
39	MP1A	Mx	.005	2.5
40	MP1A	X	-9.042	4.5
41	MP1A	Z	5.221	4.5
42	MP1A	Mx	.005	4.5
43	MP1B	X	-8.783	2.5
44	MP1B	Z	5.071	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	-.005	2.5
46	MP1B	X	-8.783	4.5
47	MP1B	Z	5.071	4.5
48	MP1B	Mx	-.005	4.5
49	MP1C	X	-16.817	2.5
50	MP1C	Z	9.709	2.5
51	MP1C	Mx	-.000677	2.5
52	MP1C	X	-16.817	4.5
53	MP1C	Z	9.709	4.5
54	MP1C	Mx	-.000677	4.5
55	MP2A	X	-10.715	2.5
56	MP2A	Z	6.187	2.5
57	MP2A	Mx	-.006	2.5
58	MP2B	X	-10.6	2.5
59	MP2B	Z	6.12	2.5
60	MP2B	Mx	.006	2.5
61	MP2C	X	-14.19	2.5
62	MP2C	Z	8.192	2.5
63	MP2C	Mx	.000572	2.5
64	MP1A	X	-9.387	1.5
65	MP1A	Z	5.42	1.5
66	MP1A	Mx	-.005	1.5
67	MP1B	X	-9.227	1.5
68	MP1B	Z	5.327	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	-14.182	1.5
71	MP1C	Z	8.188	1.5
72	MP1C	Mx	.000571	1.5
73	MP3A	X	-20.375	2
74	MP3A	Z	11.763	2
75	MP3A	Mx	-.011	2
76	MP3B	X	-20.143	2
77	MP3B	Z	11.63	2
78	MP3B	Mx	.011	2
79	MP4A	X	-13.47	2
80	MP4A	Z	7.777	2
81	MP4A	Mx	.007	2
82	MP4A	X	-13.47	5
83	MP4A	Z	7.777	5
84	MP4A	Mx	.007	5
85	MP4B	X	-13.313	2
86	MP4B	Z	7.686	2
87	MP4B	Mx	-.007	2
88	MP4B	X	-13.313	5
89	MP4B	Z	7.686	5
90	MP4B	Mx	-.007	5
91	MP4C	X	-18.167	2
92	MP4C	Z	10.489	2
93	MP4C	Mx	-.000732	2
94	MP4C	X	-18.167	5
95	MP4C	Z	10.489	5
96	MP4C	Mx	-.000732	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-29.908	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	0	1.5
3	MP2A	Mx	.014	1.5
4	MP2A	X	-29.908	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.014	5.5
7	MP2B	X	-36.154	1.5
8	MP2B	Z	0	1.5
9	MP2B	Mx	.009	1.5
10	MP2B	X	-36.154	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.009	5.5
13	MP2C	X	-36.469	1.5
14	MP2C	Z	0	1.5
15	MP2C	Mx	-.03	1.5
16	MP2C	X	-36.469	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.03	5.5
19	MP2A	X	-29.908	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	.016	1.5
22	MP2A	X	-29.908	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.016	5.5
25	MP2B	X	-36.154	1.5
26	MP2B	Z	0	1.5
27	MP2B	Mx	-.03	1.5
28	MP2B	X	-36.154	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.03	5.5
31	MP2C	X	-36.469	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	.01	1.5
34	MP2C	X	-36.469	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.01	5.5
37	MP1A	X	-8.347	2.5
38	MP1A	Z	0	2.5
39	MP1A	Mx	.004	2.5
40	MP1A	X	-8.347	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	.004	4.5
43	MP1B	X	-15.61	2.5
44	MP1B	Z	0	2.5
45	MP1B	Mx	-.005	2.5
46	MP1B	X	-15.61	4.5
47	MP1B	Z	0	4.5
48	MP1B	Mx	-.005	4.5
49	MP1C	X	-15.977	2.5
50	MP1C	Z	0	2.5
51	MP1C	Mx	-.004	2.5
52	MP1C	X	-15.977	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	-.004	4.5
55	MP2A	X	-11.437	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	-.006	2.5
58	MP2B	X	-14.683	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2B	Z	0	2.5
60	MP2B	Mx	.004	2.5
61	MP2C	X	-14.847	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	.004	2.5
64	MP1A	X	-9.548	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.005	1.5
67	MP1B	X	-14.027	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.004	1.5
70	MP1C	X	-14.253	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	.004	1.5
73	MP3A	X	-21.656	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.011	2
76	MP3B	X	-28.143	2
77	MP3B	Z	0	2
78	MP3B	Mx	.008	2
79	MP4A	X	-14.288	2
80	MP4A	Z	0	2
81	MP4A	Mx	.007	2
82	MP4A	X	-14.288	5
83	MP4A	Z	0	5
84	MP4A	Mx	.007	5
85	MP4B	X	-18.676	2
86	MP4B	Z	0	2
87	MP4B	Mx	-.005	2
88	MP4B	X	-18.676	5
89	MP4B	Z	0	5
90	MP4B	Mx	-.005	5
91	MP4C	X	-18.898	2
92	MP4C	Z	0	2
93	MP4C	Mx	-.005	2
94	MP4C	X	-18.898	5
95	MP4C	Z	0	5
96	MP4C	Mx	-.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-28.464	1.5
2	MP2A	Z	-16.434	1.5
3	MP2A	Mx	.001	1.5
4	MP2A	X	-28.464	5.5
5	MP2A	Z	-16.434	5.5
6	MP2A	Mx	.001	5.5
7	MP2B	X	-34.096	1.5
8	MP2B	Z	-19.685	1.5
9	MP2B	Mx	.024	1.5
10	MP2B	X	-34.096	5.5
11	MP2B	Z	-19.685	5.5
12	MP2B	Mx	.024	5.5
13	MP2C	X	-27.461	1.5
14	MP2C	Z	-15.855	1.5
15	MP2C	Mx	-.024	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	-27.461	5.5
17	MP2C	Z	-15.855	5.5
18	MP2C	Mx	-.024	5.5
19	MP2A	X	-28.464	1.5
20	MP2A	Z	-16.434	1.5
21	MP2A	Mx	.026	1.5
22	MP2A	X	-28.464	5.5
23	MP2A	Z	-16.434	5.5
24	MP2A	Mx	.026	5.5
25	MP2B	X	-34.096	1.5
26	MP2B	Z	-19.685	1.5
27	MP2B	Mx	-.028	1.5
28	MP2B	X	-34.096	5.5
29	MP2B	Z	-19.685	5.5
30	MP2B	Mx	-.028	5.5
31	MP2C	X	-27.461	1.5
32	MP2C	Z	-15.855	1.5
33	MP2C	Mx	-.005	1.5
34	MP2C	X	-27.461	5.5
35	MP2C	Z	-15.855	5.5
36	MP2C	Mx	-.005	5.5
37	MP1A	X	-10.209	2.5
38	MP1A	Z	-5.894	2.5
39	MP1A	Mx	.005	2.5
40	MP1A	X	-10.209	4.5
41	MP1A	Z	-5.894	4.5
42	MP1A	Mx	.005	4.5
43	MP1B	X	-16.758	2.5
44	MP1B	Z	-9.675	2.5
45	MP1B	Mx	-.001	2.5
46	MP1B	X	-16.758	4.5
47	MP1B	Z	-9.675	4.5
48	MP1B	Mx	-.001	4.5
49	MP1C	X	-9.042	2.5
50	MP1C	Z	-5.221	2.5
51	MP1C	Mx	-.005	2.5
52	MP1C	X	-9.042	4.5
53	MP1C	Z	-5.221	4.5
54	MP1C	Mx	-.005	4.5
55	MP2A	X	-11.237	2.5
56	MP2A	Z	-6.488	2.5
57	MP2A	Mx	-.005	2.5
58	MP2B	X	-14.163	2.5
59	MP2B	Z	-8.177	2.5
60	MP2B	Mx	.000855	2.5
61	MP2C	X	-10.715	2.5
62	MP2C	Z	-6.187	2.5
63	MP2C	Mx	.006	2.5
64	MP1A	X	-10.107	1.5
65	MP1A	Z	-5.835	1.5
66	MP1A	Mx	-.005	1.5
67	MP1B	X	-14.145	1.5
68	MP1B	Z	-8.167	1.5
69	MP1B	Mx	.000853	1.5
70	MP1C	X	-9.387	1.5
71	MP1C	Z	-5.42	1.5
72	MP1C	Mx	.005	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	-21.417	2
74	MP3A	Z	-12.365	2
75	MP3A	Mx	-.01	2
76	MP3B	X	-27.266	2
77	MP3B	Z	-15.742	2
78	MP3B	Mx	.002	2
79	MP4A	X	-14.175	2
80	MP4A	Z	-8.184	2
81	MP4A	Mx	.007	2
82	MP4A	X	-14.175	5
83	MP4A	Z	-8.184	5
84	MP4A	Mx	.007	5
85	MP4B	X	-18.131	2
86	MP4B	Z	-10.468	2
87	MP4B	Mx	-.001	2
88	MP4B	X	-18.131	5
89	MP4B	Z	-10.468	5
90	MP4B	Mx	-.001	5
91	MP4C	X	-13.47	2
92	MP4C	Z	-7.777	2
93	MP4C	Mx	-.007	2
94	MP4C	X	-13.47	5
95	MP4C	Z	-7.777	5
96	MP4C	Mx	-.007	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-18.814	1.5
2	MP2A	Z	-32.587	1.5
3	MP2A	Mx	-.014	1.5
4	MP2A	X	-18.814	5.5
5	MP2A	Z	-32.587	5.5
6	MP2A	Mx	-.014	5.5
7	MP2B	X	-18.942	1.5
8	MP2B	Z	-32.809	1.5
9	MP2B	Mx	.031	1.5
10	MP2B	X	-18.942	5.5
11	MP2B	Z	-32.809	5.5
12	MP2B	Mx	.031	5.5
13	MP2C	X	-14.954	1.5
14	MP2C	Z	-25.901	1.5
15	MP2C	Mx	-.014	1.5
16	MP2C	X	-14.954	5.5
17	MP2C	Z	-25.901	5.5
18	MP2C	Mx	-.014	5.5
19	MP2A	X	-18.814	1.5
20	MP2A	Z	-32.587	1.5
21	MP2A	Mx	.031	1.5
22	MP2A	X	-18.814	5.5
23	MP2A	Z	-32.587	5.5
24	MP2A	Mx	.031	5.5
25	MP2B	X	-18.942	1.5
26	MP2B	Z	-32.809	1.5
27	MP2B	Mx	-.015	1.5
28	MP2B	X	-18.942	5.5
29	MP2B	Z	-32.809	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.015	5.5
31	MP2C	X	-14.954	1.5
32	MP2C	Z	-25.901	1.5
33	MP2C	Mx	-.016	1.5
34	MP2C	X	-14.954	5.5
35	MP2C	Z	-25.901	5.5
36	MP2C	Mx	-.016	5.5
37	MP1A	X	-8.662	2.5
38	MP1A	Z	-15.003	2.5
39	MP1A	Mx	.004	2.5
40	MP1A	X	-8.662	4.5
41	MP1A	Z	-15.003	4.5
42	MP1A	Mx	.004	4.5
43	MP1B	X	-8.811	2.5
44	MP1B	Z	-15.262	2.5
45	MP1B	Mx	.004	2.5
46	MP1B	X	-8.811	4.5
47	MP1B	Z	-15.262	4.5
48	MP1B	Mx	.004	4.5
49	MP1C	X	-4.174	2.5
50	MP1C	Z	-7.229	2.5
51	MP1C	Mx	-.004	2.5
52	MP1C	X	-4.174	4.5
53	MP1C	Z	-7.229	4.5
54	MP1C	Mx	-.004	4.5
55	MP2A	X	-7.725	2.5
56	MP2A	Z	-13.379	2.5
57	MP2A	Mx	-.003	2.5
58	MP2B	X	-7.791	2.5
59	MP2B	Z	-13.495	2.5
60	MP2B	Mx	-.003	2.5
61	MP2C	X	-5.719	2.5
62	MP2C	Z	-9.905	2.5
63	MP2C	Mx	.006	2.5
64	MP1A	X	-7.542	1.5
65	MP1A	Z	-13.063	1.5
66	MP1A	Mx	-.003	1.5
67	MP1B	X	-7.634	1.5
68	MP1B	Z	-13.223	1.5
69	MP1B	Mx	-.003	1.5
70	MP1C	X	-4.774	1.5
71	MP1C	Z	-8.269	1.5
72	MP1C	Mx	.005	1.5
73	MP3A	X	-14.837	2
74	MP3A	Z	-25.699	2
75	MP3A	Mx	-.007	2
76	MP3B	X	-14.971	2
77	MP3B	Z	-25.93	2
78	MP3B	Mx	-.006	2
79	MP4A	X	-9.856	2
80	MP4A	Z	-17.071	2
81	MP4A	Mx	.004	2
82	MP4A	X	-9.856	5
83	MP4A	Z	-17.071	5
84	MP4A	Mx	.004	5
85	MP4B	X	-9.946	2
86	MP4B	Z	-17.228	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4B	Mx	.004	2
88	MP4B	X	-9.946	5
89	MP4B	Z	-17.228	5
90	MP4B	Mx	.004	5
91	MP4C	X	-7.144	2
92	MP4C	Z	-12.374	2
93	MP4C	Mx	-.007	2
94	MP4C	X	-7.144	5
95	MP4C	Z	-12.374	5
96	MP4C	Mx	-.007	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-13.019	1.5
3	MP2A	Mx	-.009	1.5
4	MP2A	X	0	5.5
5	MP2A	Z	-13.019	5.5
6	MP2A	Mx	-.009	5.5
7	MP2B	X	0	1.5
8	MP2B	Z	-10.847	1.5
9	MP2B	Mx	.009	1.5
10	MP2B	X	0	5.5
11	MP2B	Z	-10.847	5.5
12	MP2B	Mx	.009	5.5
13	MP2C	X	0	1.5
14	MP2C	Z	-10.737	1.5
15	MP2C	Mx	-.000448	1.5
16	MP2C	X	0	5.5
17	MP2C	Z	-10.737	5.5
18	MP2C	Mx	-.000448	5.5
19	MP2A	X	0	1.5
20	MP2A	Z	-13.019	1.5
21	MP2A	Mx	.008	1.5
22	MP2A	X	0	5.5
23	MP2A	Z	-13.019	5.5
24	MP2A	Mx	.008	5.5
25	MP2B	X	0	1.5
26	MP2B	Z	-10.847	1.5
27	MP2B	Mx	.000137	1.5
28	MP2B	X	0	5.5
29	MP2B	Z	-10.847	5.5
30	MP2B	Mx	.000137	5.5
31	MP2C	X	0	1.5
32	MP2C	Z	-10.737	1.5
33	MP2C	Mx	-.008	1.5
34	MP2C	X	0	5.5
35	MP2C	Z	-10.737	5.5
36	MP2C	Mx	-.008	5.5
37	MP1A	X	0	2.5
38	MP1A	Z	-6.189	2.5
39	MP1A	Mx	-.000216	2.5
40	MP1A	X	0	4.5
41	MP1A	Z	-6.189	4.5
42	MP1A	Mx	-.000216	4.5
43	MP1B	X	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	-3.735	2.5
45	MP1B	Mx	.002	2.5
46	MP1B	X	0	4.5
47	MP1B	Z	-3.735	4.5
48	MP1B	Mx	.002	4.5
49	MP1C	X	0	2.5
50	MP1C	Z	-3.611	2.5
51	MP1C	Mx	-.001	2.5
52	MP1C	X	0	4.5
53	MP1C	Z	-3.611	4.5
54	MP1C	Mx	-.001	4.5
55	MP2A	X	0	2.5
56	MP2A	Z	-4.931	2.5
57	MP2A	Mx	.000172	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	-3.868	2.5
60	MP2B	Mx	-.002	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	-3.814	2.5
63	MP2C	Mx	.002	2.5
64	MP1A	X	0	1.5
65	MP1A	Z	-4.928	1.5
66	MP1A	Mx	.000172	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-3.457	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-3.383	1.5
72	MP1C	Mx	.001	1.5
73	MP3A	X	0	2
74	MP3A	Z	-9.994	2
75	MP3A	Mx	.000349	2
76	MP3B	X	0	2
77	MP3B	Z	-7.796	2
78	MP3B	Mx	-.003	2
79	MP4A	X	0	2
80	MP4A	Z	-6.711	2
81	MP4A	Mx	-.000234	2
82	MP4A	X	0	5
83	MP4A	Z	-6.711	5
84	MP4A	Mx	-.000234	5
85	MP4B	X	0	2
86	MP4B	Z	-5.201	2
87	MP4B	Mx	.002	2
88	MP4B	X	0	5
89	MP4B	Z	-5.201	5
90	MP4B	Mx	.002	5
91	MP4C	X	0	2
92	MP4C	Z	-5.125	2
93	MP4C	Mx	-.002	2
94	MP4C	X	0	5
95	MP4C	Z	-5.125	5
96	MP4C	Mx	-.002	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	5.995	1.5
2	MP2A	Z	-10.383	1.5
3	MP2A	Mx	-.01	1.5
4	MP2A	X	5.995	5.5
5	MP2A	Z	-10.383	5.5
6	MP2A	Mx	-.01	5.5
7	MP2B	X	4.864	1.5
8	MP2B	Z	-8.425	1.5
9	MP2B	Mx	.006	1.5
10	MP2B	X	4.864	5.5
11	MP2B	Z	-8.425	5.5
12	MP2B	Mx	.006	5.5
13	MP2C	X	6.196	1.5
14	MP2C	Z	-10.732	1.5
15	MP2C	Mx	.005	1.5
16	MP2C	X	6.196	5.5
17	MP2C	Z	-10.732	5.5
18	MP2C	Mx	.005	5.5
19	MP2A	X	5.995	1.5
20	MP2A	Z	-10.383	1.5
21	MP2A	Mx	.003	1.5
22	MP2A	X	5.995	5.5
23	MP2A	Z	-10.383	5.5
24	MP2A	Mx	.003	5.5
25	MP2B	X	4.864	1.5
26	MP2B	Z	-8.425	1.5
27	MP2B	Mx	.004	1.5
28	MP2B	X	4.864	5.5
29	MP2B	Z	-8.425	5.5
30	MP2B	Mx	.004	5.5
31	MP2C	X	6.196	1.5
32	MP2C	Z	-10.732	1.5
33	MP2C	Mx	-.01	1.5
34	MP2C	X	6.196	5.5
35	MP2C	Z	-10.732	5.5
36	MP2C	Mx	-.01	5.5
37	MP1A	X	2.513	2.5
38	MP1A	Z	-4.353	2.5
39	MP1A	Mx	-.001	2.5
40	MP1A	X	2.513	4.5
41	MP1A	Z	-4.353	4.5
42	MP1A	Mx	-.001	4.5
43	MP1B	X	1.236	2.5
44	MP1B	Z	-2.14	2.5
45	MP1B	Mx	.001	2.5
46	MP1B	X	1.236	4.5
47	MP1B	Z	-2.14	4.5
48	MP1B	Mx	.001	4.5
49	MP1C	X	2.741	2.5
50	MP1C	Z	-4.747	2.5
51	MP1C	Mx	-.001	2.5
52	MP1C	X	2.741	4.5
53	MP1C	Z	-4.747	4.5
54	MP1C	Mx	-.001	4.5
55	MP2A	X	2.214	2.5
56	MP2A	Z	-3.834	2.5
57	MP2A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	1.66	2.5
59	MP2B	Z	-2.875	2.5
60	MP2B	Mx	-.002	2.5
61	MP2C	X	2.312	2.5
62	MP2C	Z	-4.005	2.5
63	MP2C	Mx	.001	2.5
64	MP1A	X	2.116	1.5
65	MP1A	Z	-3.664	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	1.35	1.5
68	MP1B	Z	-2.338	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	2.252	1.5
71	MP1C	Z	-3.901	1.5
72	MP1C	Mx	.000987	1.5
73	MP3A	X	4.476	2
74	MP3A	Z	-7.753	2
75	MP3A	Mx	.003	2
76	MP3B	X	3.332	2
77	MP3B	Z	-5.771	2
78	MP3B	Mx	-.003	2
79	MP4A	X	2.998	2
80	MP4A	Z	-5.192	2
81	MP4A	Mx	-.002	2
82	MP4A	X	2.998	5
83	MP4A	Z	-5.192	5
84	MP4A	Mx	-.002	5
85	MP4B	X	2.212	2
86	MP4B	Z	-3.831	2
87	MP4B	Mx	.002	2
88	MP4B	X	2.212	5
89	MP4B	Z	-3.831	5
90	MP4B	Mx	.002	5
91	MP4C	X	3.138	2
92	MP4C	Z	-5.435	2
93	MP4C	Mx	-.001	2
94	MP4C	X	3.138	5
95	MP4C	Z	-5.435	5
96	MP4C	Mx	-.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.949	1.5
2	MP2A	Z	-5.167	1.5
3	MP2A	Mx	-.008	1.5
4	MP2A	X	8.949	5.5
5	MP2A	Z	-5.167	5.5
6	MP2A	Mx	-.008	5.5
7	MP2B	X	8.872	1.5
8	MP2B	Z	-5.122	1.5
9	MP2B	Mx	.002	1.5
10	MP2B	X	8.872	5.5
11	MP2B	Z	-5.122	5.5
12	MP2B	Mx	.002	5.5
13	MP2C	X	11.275	1.5
14	MP2C	Z	-6.51	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.009	1.5
16	MP2C	X	11.275	5.5
17	MP2C	Z	-6.51	5.5
18	MP2C	Mx	.009	5.5
19	MP2A	X	8.949	1.5
20	MP2A	Z	-5.167	1.5
21	MP2A	Mx	-.002	1.5
22	MP2A	X	8.949	5.5
23	MP2A	Z	-5.167	5.5
24	MP2A	Mx	-.002	5.5
25	MP2B	X	8.872	1.5
26	MP2B	Z	-5.122	1.5
27	MP2B	Mx	.007	1.5
28	MP2B	X	8.872	5.5
29	MP2B	Z	-5.122	5.5
30	MP2B	Mx	.007	5.5
31	MP2C	X	11.275	1.5
32	MP2C	Z	-6.51	1.5
33	MP2C	Mx	-.008	1.5
34	MP2C	X	11.275	5.5
35	MP2C	Z	-6.51	5.5
36	MP2C	Mx	-.008	5.5
37	MP1A	X	2.733	2.5
38	MP1A	Z	-1.578	2.5
39	MP1A	Mx	-.001	2.5
40	MP1A	X	2.733	4.5
41	MP1A	Z	-1.578	4.5
42	MP1A	Mx	-.001	4.5
43	MP1B	X	2.646	2.5
44	MP1B	Z	-1.528	2.5
45	MP1B	Mx	.001	2.5
46	MP1B	X	2.646	4.5
47	MP1B	Z	-1.528	4.5
48	MP1B	Mx	.001	4.5
49	MP1C	X	5.36	2.5
50	MP1C	Z	-3.094	2.5
51	MP1C	Mx	.000216	2.5
52	MP1C	X	5.36	4.5
53	MP1C	Z	-3.094	4.5
54	MP1C	Mx	.000216	4.5
55	MP2A	X	3.132	2.5
56	MP2A	Z	-1.808	2.5
57	MP2A	Mx	.002	2.5
58	MP2B	X	3.094	2.5
59	MP2B	Z	-1.786	2.5
60	MP2B	Mx	-.002	2.5
61	MP2C	X	4.271	2.5
62	MP2C	Z	-2.466	2.5
63	MP2C	Mx	-.000172	2.5
64	MP1A	X	2.693	1.5
65	MP1A	Z	-1.555	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	2.641	1.5
68	MP1B	Z	-1.525	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	4.268	1.5
71	MP1C	Z	-2.464	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP1C	Mx	-.000172	1.5
73	MP3A	X	6.302	2
74	MP3A	Z	-3.638	2
75	MP3A	Mx	.003	2
76	MP3B	X	6.224	2
77	MP3B	Z	-3.593	2
78	MP3B	Mx	-.003	2
79	MP4A	X	4.195	2
80	MP4A	Z	-2.422	2
81	MP4A	Mx	-.002	2
82	MP4A	X	4.195	5
83	MP4A	Z	-2.422	5
84	MP4A	Mx	-.002	5
85	MP4B	X	4.142	2
86	MP4B	Z	-2.391	2
87	MP4B	Mx	.002	2
88	MP4B	X	4.142	5
89	MP4B	Z	-2.391	5
90	MP4B	Mx	.002	5
91	MP4C	X	5.812	2
92	MP4C	Z	-3.356	2
93	MP4C	Mx	.000234	2
94	MP4C	X	5.812	5
95	MP4C	Z	-3.356	5
96	MP4C	Mx	.000234	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.708	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.004	1.5
4	MP2A	X	9.708	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.004	5.5
7	MP2B	X	11.88	1.5
8	MP2B	Z	0	1.5
9	MP2B	Mx	-.003	1.5
10	MP2B	X	11.88	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.003	5.5
13	MP2C	X	11.99	1.5
14	MP2C	Z	0	1.5
15	MP2C	Mx	.01	1.5
16	MP2C	X	11.99	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.01	5.5
19	MP2A	X	9.708	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	-.005	1.5
22	MP2A	X	9.708	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.005	5.5
25	MP2B	X	11.88	1.5
26	MP2B	Z	0	1.5
27	MP2B	Mx	.01	1.5
28	MP2B	X	11.88	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	0	5.5
30	MP2B	Mx	.01	5.5
31	MP2C	X	11.99	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	-.003	1.5
34	MP2C	X	11.99	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.003	5.5
37	MP1A	X	2.449	2.5
38	MP1A	Z	0	2.5
39	MP1A	Mx	-.001	2.5
40	MP1A	X	2.449	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	-.001	4.5
43	MP1B	X	4.902	2.5
44	MP1B	Z	0	2.5
45	MP1B	Mx	.001	2.5
46	MP1B	X	4.902	4.5
47	MP1B	Z	0	4.5
48	MP1B	Mx	.001	4.5
49	MP1C	X	5.026	2.5
50	MP1C	Z	0	2.5
51	MP1C	Mx	.001	2.5
52	MP1C	X	5.026	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	.001	4.5
55	MP2A	X	3.31	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	.002	2.5
58	MP2B	X	4.374	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	-.001	2.5
61	MP2C	X	4.427	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	-.001	2.5
64	MP1A	X	2.685	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	4.157	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	4.231	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.001	1.5
73	MP3A	X	6.643	2
74	MP3A	Z	0	2
75	MP3A	Mx	.003	2
76	MP3B	X	8.842	2
77	MP3B	Z	0	2
78	MP3B	Mx	-.003	2
79	MP4A	X	4.409	2
80	MP4A	Z	0	2
81	MP4A	Mx	-.002	2
82	MP4A	X	4.409	5
83	MP4A	Z	0	5
84	MP4A	Mx	-.002	5
85	MP4B	X	5.919	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4B	Z	0	2
87	MP4B	Mx	.002	2
88	MP4B	X	5.919	5
89	MP4B	Z	0	5
90	MP4B	Mx	.002	5
91	MP4C	X	5.995	2
92	MP4C	Z	0	2
93	MP4C	Mx	.002	2
94	MP4C	X	5.995	5
95	MP4C	Z	0	5
96	MP4C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.298	1.5
2	MP2A	Z	5.368	1.5
3	MP2A	Mx	-.000448	1.5
4	MP2A	X	9.298	5.5
5	MP2A	Z	5.368	5.5
6	MP2A	Mx	-.000448	5.5
7	MP2B	X	11.257	1.5
8	MP2B	Z	6.499	1.5
9	MP2B	Mx	-.008	1.5
10	MP2B	X	11.257	5.5
11	MP2B	Z	6.499	5.5
12	MP2B	Mx	-.008	5.5
13	MP2C	X	8.949	1.5
14	MP2C	Z	5.167	1.5
15	MP2C	Mx	.008	1.5
16	MP2C	X	8.949	5.5
17	MP2C	Z	5.167	5.5
18	MP2C	Mx	.008	5.5
19	MP2A	X	9.298	1.5
20	MP2A	Z	5.368	1.5
21	MP2A	Mx	-.008	1.5
22	MP2A	X	9.298	5.5
23	MP2A	Z	5.368	5.5
24	MP2A	Mx	-.008	5.5
25	MP2B	X	11.257	1.5
26	MP2B	Z	6.499	1.5
27	MP2B	Mx	.009	1.5
28	MP2B	X	11.257	5.5
29	MP2B	Z	6.499	5.5
30	MP2B	Mx	.009	5.5
31	MP2C	X	8.949	1.5
32	MP2C	Z	5.167	1.5
33	MP2C	Mx	.002	1.5
34	MP2C	X	8.949	5.5
35	MP2C	Z	5.167	5.5
36	MP2C	Mx	.002	5.5
37	MP1A	X	3.127	2.5
38	MP1A	Z	1.806	2.5
39	MP1A	Mx	-.001	2.5
40	MP1A	X	3.127	4.5
41	MP1A	Z	1.806	4.5
42	MP1A	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	5.34	2.5
44	MP1B	Z	3.083	2.5
45	MP1B	Mx	.000322	2.5
46	MP1B	X	5.34	4.5
47	MP1B	Z	3.083	4.5
48	MP1B	Mx	.000322	4.5
49	MP1C	X	2.733	2.5
50	MP1C	Z	1.578	2.5
51	MP1C	Mx	.001	2.5
52	MP1C	X	2.733	4.5
53	MP1C	Z	1.578	4.5
54	MP1C	Mx	.001	4.5
55	MP2A	X	3.303	2.5
56	MP2A	Z	1.907	2.5
57	MP2A	Mx	.002	2.5
58	MP2B	X	4.262	2.5
59	MP2B	Z	2.461	2.5
60	MP2B	Mx	-.000257	2.5
61	MP2C	X	3.132	2.5
62	MP2C	Z	1.808	2.5
63	MP2C	Mx	-.002	2.5
64	MP1A	X	2.929	1.5
65	MP1A	Z	1.691	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	4.256	1.5
68	MP1B	Z	2.457	1.5
69	MP1B	Mx	-.000257	1.5
70	MP1C	X	2.693	1.5
71	MP1C	Z	1.555	1.5
72	MP1C	Mx	-.001	1.5
73	MP3A	X	6.655	2
74	MP3A	Z	3.842	2
75	MP3A	Mx	.003	2
76	MP3B	X	8.638	2
77	MP3B	Z	4.987	2
78	MP3B	Mx	-.000521	2
79	MP4A	X	4.438	2
80	MP4A	Z	2.562	2
81	MP4A	Mx	-.002	2
82	MP4A	X	4.438	5
83	MP4A	Z	2.562	5
84	MP4A	Mx	-.002	5
85	MP4B	X	5.8	2
86	MP4B	Z	3.348	2
87	MP4B	Mx	.00035	2
88	MP4B	X	5.8	5
89	MP4B	Z	3.348	5
90	MP4B	Mx	.00035	5
91	MP4C	X	4.195	2
92	MP4C	Z	2.422	2
93	MP4C	Mx	.002	2
94	MP4C	X	4.195	5
95	MP4C	Z	2.422	5
96	MP4C	Mx	.002	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.196	1.5
2	MP2A	Z	10.732	1.5
3	MP2A	Mx	.005	1.5
4	MP2A	X	6.196	5.5
5	MP2A	Z	10.732	5.5
6	MP2A	Mx	.005	5.5
7	MP2B	X	6.241	1.5
8	MP2B	Z	10.81	1.5
9	MP2B	Mx	-.01	1.5
10	MP2B	X	6.241	5.5
11	MP2B	Z	10.81	5.5
12	MP2B	Mx	-.01	5.5
13	MP2C	X	4.854	1.5
14	MP2C	Z	8.407	1.5
15	MP2C	Mx	.004	1.5
16	MP2C	X	4.854	5.5
17	MP2C	Z	8.407	5.5
18	MP2C	Mx	.004	5.5
19	MP2A	X	6.196	1.5
20	MP2A	Z	10.732	1.5
21	MP2A	Mx	-.01	1.5
22	MP2A	X	6.196	5.5
23	MP2A	Z	10.732	5.5
24	MP2A	Mx	-.01	5.5
25	MP2B	X	6.241	1.5
26	MP2B	Z	10.81	1.5
27	MP2B	Mx	.005	1.5
28	MP2B	X	6.241	5.5
29	MP2B	Z	10.81	5.5
30	MP2B	Mx	.005	5.5
31	MP2C	X	4.854	1.5
32	MP2C	Z	8.407	1.5
33	MP2C	Mx	.005	1.5
34	MP2C	X	4.854	5.5
35	MP2C	Z	8.407	5.5
36	MP2C	Mx	.005	5.5
37	MP1A	X	2.741	2.5
38	MP1A	Z	4.747	2.5
39	MP1A	Mx	-.001	2.5
40	MP1A	X	2.741	4.5
41	MP1A	Z	4.747	4.5
42	MP1A	Mx	-.001	4.5
43	MP1B	X	2.791	2.5
44	MP1B	Z	4.835	2.5
45	MP1B	Mx	-.001	2.5
46	MP1B	X	2.791	4.5
47	MP1B	Z	4.835	4.5
48	MP1B	Mx	-.001	4.5
49	MP1C	X	1.224	2.5
50	MP1C	Z	2.12	2.5
51	MP1C	Mx	.001	2.5
52	MP1C	X	1.224	4.5
53	MP1C	Z	2.12	4.5
54	MP1C	Mx	.001	4.5
55	MP2A	X	2.312	2.5
56	MP2A	Z	4.005	2.5
57	MP2A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	2.334	2.5
59	MP2B	Z	4.043	2.5
60	MP2B	Mx	.000949	2.5
61	MP2C	X	1.655	2.5
62	MP2C	Z	2.866	2.5
63	MP2C	Mx	-.002	2.5
64	MP1A	X	2.252	1.5
65	MP1A	Z	3.901	1.5
66	MP1A	Mx	.000987	1.5
67	MP1B	X	2.282	1.5
68	MP1B	Z	3.953	1.5
69	MP1B	Mx	.000928	1.5
70	MP1C	X	1.343	1.5
71	MP1C	Z	2.326	1.5
72	MP1C	Mx	-.001	1.5
73	MP3A	X	4.68	2
74	MP3A	Z	8.106	2
75	MP3A	Mx	.002	2
76	MP3B	X	4.726	2
77	MP3B	Z	8.185	2
78	MP3B	Mx	.002	2
79	MP4A	X	3.138	2
80	MP4A	Z	5.435	2
81	MP4A	Mx	-.001	2
82	MP4A	X	3.138	5
83	MP4A	Z	5.435	5
84	MP4A	Mx	-.001	5
85	MP4B	X	3.169	2
86	MP4B	Z	5.489	2
87	MP4B	Mx	-.001	2
88	MP4B	X	3.169	5
89	MP4B	Z	5.489	5
90	MP4B	Mx	-.001	5
91	MP4C	X	2.205	2
92	MP4C	Z	3.818	2
93	MP4C	Mx	.002	2
94	MP4C	X	2.205	5
95	MP4C	Z	3.818	5
96	MP4C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	13.019	1.5
3	MP2A	Mx	.009	1.5
4	MP2A	X	0	5.5
5	MP2A	Z	13.019	5.5
6	MP2A	Mx	.009	5.5
7	MP2B	X	0	1.5
8	MP2B	Z	10.847	1.5
9	MP2B	Mx	-.009	1.5
10	MP2B	X	0	5.5
11	MP2B	Z	10.847	5.5
12	MP2B	Mx	-.009	5.5
13	MP2C	X	0	1.5
14	MP2C	Z	10.737	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	.000448	1.5
16	MP2C	X	0	5.5
17	MP2C	Z	10.737	5.5
18	MP2C	Mx	.000448	5.5
19	MP2A	X	0	1.5
20	MP2A	Z	13.019	1.5
21	MP2A	Mx	-.008	1.5
22	MP2A	X	0	5.5
23	MP2A	Z	13.019	5.5
24	MP2A	Mx	-.008	5.5
25	MP2B	X	0	1.5
26	MP2B	Z	10.847	1.5
27	MP2B	Mx	-.000137	1.5
28	MP2B	X	0	5.5
29	MP2B	Z	10.847	5.5
30	MP2B	Mx	-.000137	5.5
31	MP2C	X	0	1.5
32	MP2C	Z	10.737	1.5
33	MP2C	Mx	.008	1.5
34	MP2C	X	0	5.5
35	MP2C	Z	10.737	5.5
36	MP2C	Mx	.008	5.5
37	MP1A	X	0	2.5
38	MP1A	Z	6.189	2.5
39	MP1A	Mx	.000216	2.5
40	MP1A	X	0	4.5
41	MP1A	Z	6.189	4.5
42	MP1A	Mx	.000216	4.5
43	MP1B	X	0	2.5
44	MP1B	Z	3.735	2.5
45	MP1B	Mx	-.002	2.5
46	MP1B	X	0	4.5
47	MP1B	Z	3.735	4.5
48	MP1B	Mx	-.002	4.5
49	MP1C	X	0	2.5
50	MP1C	Z	3.611	2.5
51	MP1C	Mx	.001	2.5
52	MP1C	X	0	4.5
53	MP1C	Z	3.611	4.5
54	MP1C	Mx	.001	4.5
55	MP2A	X	0	2.5
56	MP2A	Z	4.931	2.5
57	MP2A	Mx	-.000172	2.5
58	MP2B	X	0	2.5
59	MP2B	Z	3.868	2.5
60	MP2B	Mx	.002	2.5
61	MP2C	X	0	2.5
62	MP2C	Z	3.814	2.5
63	MP2C	Mx	-.002	2.5
64	MP1A	X	0	1.5
65	MP1A	Z	4.928	1.5
66	MP1A	Mx	-.000172	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	3.457	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	3.383	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP1C	Mx	-.001	1.5
73	MP3A	X	0	2
74	MP3A	Z	9.994	2
75	MP3A	Mx	-.000349	2
76	MP3B	X	0	2
77	MP3B	Z	7.796	2
78	MP3B	Mx	.003	2
79	MP4A	X	0	2
80	MP4A	Z	6.711	2
81	MP4A	Mx	.000234	2
82	MP4A	X	0	5
83	MP4A	Z	6.711	5
84	MP4A	Mx	.000234	5
85	MP4B	X	0	2
86	MP4B	Z	5.201	2
87	MP4B	Mx	-.002	2
88	MP4B	X	0	5
89	MP4B	Z	5.201	5
90	MP4B	Mx	-.002	5
91	MP4C	X	0	2
92	MP4C	Z	5.125	2
93	MP4C	Mx	.002	2
94	MP4C	X	0	5
95	MP4C	Z	5.125	5
96	MP4C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-5.995	1.5
2	MP2A	Z	10.383	1.5
3	MP2A	Mx	.01	1.5
4	MP2A	X	-5.995	5.5
5	MP2A	Z	10.383	5.5
6	MP2A	Mx	.01	5.5
7	MP2B	X	-4.864	1.5
8	MP2B	Z	8.425	1.5
9	MP2B	Mx	-.006	1.5
10	MP2B	X	-4.864	5.5
11	MP2B	Z	8.425	5.5
12	MP2B	Mx	-.006	5.5
13	MP2C	X	-6.196	1.5
14	MP2C	Z	10.732	1.5
15	MP2C	Mx	-.005	1.5
16	MP2C	X	-6.196	5.5
17	MP2C	Z	10.732	5.5
18	MP2C	Mx	-.005	5.5
19	MP2A	X	-5.995	1.5
20	MP2A	Z	10.383	1.5
21	MP2A	Mx	-.003	1.5
22	MP2A	X	-5.995	5.5
23	MP2A	Z	10.383	5.5
24	MP2A	Mx	-.003	5.5
25	MP2B	X	-4.864	1.5
26	MP2B	Z	8.425	1.5
27	MP2B	Mx	-.004	1.5
28	MP2B	X	-4.864	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	8.425	5.5
30	MP2B	Mx	-.004	5.5
31	MP2C	X	-6.196	1.5
32	MP2C	Z	10.732	1.5
33	MP2C	Mx	.01	1.5
34	MP2C	X	-6.196	5.5
35	MP2C	Z	10.732	5.5
36	MP2C	Mx	.01	5.5
37	MP1A	X	-2.513	2.5
38	MP1A	Z	4.353	2.5
39	MP1A	Mx	.001	2.5
40	MP1A	X	-2.513	4.5
41	MP1A	Z	4.353	4.5
42	MP1A	Mx	.001	4.5
43	MP1B	X	-1.236	2.5
44	MP1B	Z	2.14	2.5
45	MP1B	Mx	-.001	2.5
46	MP1B	X	-1.236	4.5
47	MP1B	Z	2.14	4.5
48	MP1B	Mx	-.001	4.5
49	MP1C	X	-2.741	2.5
50	MP1C	Z	4.747	2.5
51	MP1C	Mx	.001	2.5
52	MP1C	X	-2.741	4.5
53	MP1C	Z	4.747	4.5
54	MP1C	Mx	.001	4.5
55	MP2A	X	-2.214	2.5
56	MP2A	Z	3.834	2.5
57	MP2A	Mx	-.001	2.5
58	MP2B	X	-1.66	2.5
59	MP2B	Z	2.875	2.5
60	MP2B	Mx	.002	2.5
61	MP2C	X	-2.312	2.5
62	MP2C	Z	4.005	2.5
63	MP2C	Mx	-.001	2.5
64	MP1A	X	-2.116	1.5
65	MP1A	Z	3.664	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-1.35	1.5
68	MP1B	Z	2.338	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-2.252	1.5
71	MP1C	Z	3.901	1.5
72	MP1C	Mx	-.000987	1.5
73	MP3A	X	-4.476	2
74	MP3A	Z	7.753	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-3.332	2
77	MP3B	Z	5.771	2
78	MP3B	Mx	.003	2
79	MP4A	X	-2.998	2
80	MP4A	Z	5.192	2
81	MP4A	Mx	.002	2
82	MP4A	X	-2.998	5
83	MP4A	Z	5.192	5
84	MP4A	Mx	.002	5
85	MP4B	X	-2.212	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4B	Z	3.831	2
87	MP4B	Mx	-.002	2
88	MP4B	X	-2.212	5
89	MP4B	Z	3.831	5
90	MP4B	Mx	-.002	5
91	MP4C	X	-3.138	2
92	MP4C	Z	5.435	2
93	MP4C	Mx	.001	2
94	MP4C	X	-3.138	5
95	MP4C	Z	5.435	5
96	MP4C	Mx	.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.949	1.5
2	MP2A	Z	5.167	1.5
3	MP2A	Mx	.008	1.5
4	MP2A	X	-8.949	5.5
5	MP2A	Z	5.167	5.5
6	MP2A	Mx	.008	5.5
7	MP2B	X	-8.872	1.5
8	MP2B	Z	5.122	1.5
9	MP2B	Mx	-.002	1.5
10	MP2B	X	-8.872	5.5
11	MP2B	Z	5.122	5.5
12	MP2B	Mx	-.002	5.5
13	MP2C	X	-11.275	1.5
14	MP2C	Z	6.51	1.5
15	MP2C	Mx	-.009	1.5
16	MP2C	X	-11.275	5.5
17	MP2C	Z	6.51	5.5
18	MP2C	Mx	-.009	5.5
19	MP2A	X	-8.949	1.5
20	MP2A	Z	5.167	1.5
21	MP2A	Mx	.002	1.5
22	MP2A	X	-8.949	5.5
23	MP2A	Z	5.167	5.5
24	MP2A	Mx	.002	5.5
25	MP2B	X	-8.872	1.5
26	MP2B	Z	5.122	1.5
27	MP2B	Mx	-.007	1.5
28	MP2B	X	-8.872	5.5
29	MP2B	Z	5.122	5.5
30	MP2B	Mx	-.007	5.5
31	MP2C	X	-11.275	1.5
32	MP2C	Z	6.51	1.5
33	MP2C	Mx	.008	1.5
34	MP2C	X	-11.275	5.5
35	MP2C	Z	6.51	5.5
36	MP2C	Mx	.008	5.5
37	MP1A	X	-2.733	2.5
38	MP1A	Z	1.578	2.5
39	MP1A	Mx	.001	2.5
40	MP1A	X	-2.733	4.5
41	MP1A	Z	1.578	4.5
42	MP1A	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	-2.646	2.5
44	MP1B	Z	1.528	2.5
45	MP1B	Mx	-.001	2.5
46	MP1B	X	-2.646	4.5
47	MP1B	Z	1.528	4.5
48	MP1B	Mx	-.001	4.5
49	MP1C	X	-5.36	2.5
50	MP1C	Z	3.094	2.5
51	MP1C	Mx	-.000216	2.5
52	MP1C	X	-5.36	4.5
53	MP1C	Z	3.094	4.5
54	MP1C	Mx	-.000216	4.5
55	MP2A	X	-3.132	2.5
56	MP2A	Z	1.808	2.5
57	MP2A	Mx	-.002	2.5
58	MP2B	X	-3.094	2.5
59	MP2B	Z	1.786	2.5
60	MP2B	Mx	.002	2.5
61	MP2C	X	-4.271	2.5
62	MP2C	Z	2.466	2.5
63	MP2C	Mx	.000172	2.5
64	MP1A	X	-2.693	1.5
65	MP1A	Z	1.555	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-2.641	1.5
68	MP1B	Z	1.525	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-4.268	1.5
71	MP1C	Z	2.464	1.5
72	MP1C	Mx	.000172	1.5
73	MP3A	X	-6.302	2
74	MP3A	Z	3.638	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-6.224	2
77	MP3B	Z	3.593	2
78	MP3B	Mx	.003	2
79	MP4A	X	-4.195	2
80	MP4A	Z	2.422	2
81	MP4A	Mx	.002	2
82	MP4A	X	-4.195	5
83	MP4A	Z	2.422	5
84	MP4A	Mx	.002	5
85	MP4B	X	-4.142	2
86	MP4B	Z	2.391	2
87	MP4B	Mx	-.002	2
88	MP4B	X	-4.142	5
89	MP4B	Z	2.391	5
90	MP4B	Mx	-.002	5
91	MP4C	X	-5.812	2
92	MP4C	Z	3.356	2
93	MP4C	Mx	-.000234	2
94	MP4C	X	-5.812	5
95	MP4C	Z	3.356	5
96	MP4C	Mx	-.000234	5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.708	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.004	1.5
4	MP2A	X	-9.708	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.004	5.5
7	MP2B	X	-11.88	1.5
8	MP2B	Z	0	1.5
9	MP2B	Mx	.003	1.5
10	MP2B	X	-11.88	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.003	5.5
13	MP2C	X	-11.99	1.5
14	MP2C	Z	0	1.5
15	MP2C	Mx	-.01	1.5
16	MP2C	X	-11.99	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.01	5.5
19	MP2A	X	-9.708	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	.005	1.5
22	MP2A	X	-9.708	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.005	5.5
25	MP2B	X	-11.88	1.5
26	MP2B	Z	0	1.5
27	MP2B	Mx	-.01	1.5
28	MP2B	X	-11.88	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.01	5.5
31	MP2C	X	-11.99	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	.003	1.5
34	MP2C	X	-11.99	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.003	5.5
37	MP1A	X	-2.449	2.5
38	MP1A	Z	0	2.5
39	MP1A	Mx	.001	2.5
40	MP1A	X	-2.449	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	.001	4.5
43	MP1B	X	-4.902	2.5
44	MP1B	Z	0	2.5
45	MP1B	Mx	-.001	2.5
46	MP1B	X	-4.902	4.5
47	MP1B	Z	0	4.5
48	MP1B	Mx	-.001	4.5
49	MP1C	X	-5.026	2.5
50	MP1C	Z	0	2.5
51	MP1C	Mx	-.001	2.5
52	MP1C	X	-5.026	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	-.001	4.5
55	MP2A	X	-3.31	2.5
56	MP2A	Z	0	2.5
57	MP2A	Mx	-.002	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-4.374	2.5
59	MP2B	Z	0	2.5
60	MP2B	Mx	.001	2.5
61	MP2C	X	-4.427	2.5
62	MP2C	Z	0	2.5
63	MP2C	Mx	.001	2.5
64	MP1A	X	-2.685	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-4.157	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-4.231	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	.001	1.5
73	MP3A	X	-6.643	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-8.842	2
77	MP3B	Z	0	2
78	MP3B	Mx	.003	2
79	MP4A	X	-4.409	2
80	MP4A	Z	0	2
81	MP4A	Mx	.002	2
82	MP4A	X	-4.409	5
83	MP4A	Z	0	5
84	MP4A	Mx	.002	5
85	MP4B	X	-5.919	2
86	MP4B	Z	0	2
87	MP4B	Mx	-.002	2
88	MP4B	X	-5.919	5
89	MP4B	Z	0	5
90	MP4B	Mx	-.002	5
91	MP4C	X	-5.995	2
92	MP4C	Z	0	2
93	MP4C	Mx	-.002	2
94	MP4C	X	-5.995	5
95	MP4C	Z	0	5
96	MP4C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.298	1.5
2	MP2A	Z	-5.368	1.5
3	MP2A	Mx	.000448	1.5
4	MP2A	X	-9.298	5.5
5	MP2A	Z	-5.368	5.5
6	MP2A	Mx	.000448	5.5
7	MP2B	X	-11.257	1.5
8	MP2B	Z	-6.499	1.5
9	MP2B	Mx	.008	1.5
10	MP2B	X	-11.257	5.5
11	MP2B	Z	-6.499	5.5
12	MP2B	Mx	.008	5.5
13	MP2C	X	-8.949	1.5
14	MP2C	Z	-5.167	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	-.008	1.5
16	MP2C	X	-8.949	5.5
17	MP2C	Z	-5.167	5.5
18	MP2C	Mx	-.008	5.5
19	MP2A	X	-9.298	1.5
20	MP2A	Z	-5.368	1.5
21	MP2A	Mx	.008	1.5
22	MP2A	X	-9.298	5.5
23	MP2A	Z	-5.368	5.5
24	MP2A	Mx	.008	5.5
25	MP2B	X	-11.257	1.5
26	MP2B	Z	-6.499	1.5
27	MP2B	Mx	-.009	1.5
28	MP2B	X	-11.257	5.5
29	MP2B	Z	-6.499	5.5
30	MP2B	Mx	-.009	5.5
31	MP2C	X	-8.949	1.5
32	MP2C	Z	-5.167	1.5
33	MP2C	Mx	-.002	1.5
34	MP2C	X	-8.949	5.5
35	MP2C	Z	-5.167	5.5
36	MP2C	Mx	-.002	5.5
37	MP1A	X	-3.127	2.5
38	MP1A	Z	-1.806	2.5
39	MP1A	Mx	.001	2.5
40	MP1A	X	-3.127	4.5
41	MP1A	Z	-1.806	4.5
42	MP1A	Mx	.001	4.5
43	MP1B	X	-5.34	2.5
44	MP1B	Z	-3.083	2.5
45	MP1B	Mx	-.000322	2.5
46	MP1B	X	-5.34	4.5
47	MP1B	Z	-3.083	4.5
48	MP1B	Mx	-.000322	4.5
49	MP1C	X	-2.733	2.5
50	MP1C	Z	-1.578	2.5
51	MP1C	Mx	-.001	2.5
52	MP1C	X	-2.733	4.5
53	MP1C	Z	-1.578	4.5
54	MP1C	Mx	-.001	4.5
55	MP2A	X	-3.303	2.5
56	MP2A	Z	-1.907	2.5
57	MP2A	Mx	-.002	2.5
58	MP2B	X	-4.262	2.5
59	MP2B	Z	-2.461	2.5
60	MP2B	Mx	.000257	2.5
61	MP2C	X	-3.132	2.5
62	MP2C	Z	-1.808	2.5
63	MP2C	Mx	.002	2.5
64	MP1A	X	-2.929	1.5
65	MP1A	Z	-1.691	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-4.256	1.5
68	MP1B	Z	-2.457	1.5
69	MP1B	Mx	.000257	1.5
70	MP1C	X	-2.693	1.5
71	MP1C	Z	-1.555	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP1C	Mx	.001	1.5
73	MP3A	X	-6.655	2
74	MP3A	Z	-3.842	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-8.638	2
77	MP3B	Z	-4.987	2
78	MP3B	Mx	.000521	2
79	MP4A	X	-4.438	2
80	MP4A	Z	-2.562	2
81	MP4A	Mx	.002	2
82	MP4A	X	-4.438	5
83	MP4A	Z	-2.562	5
84	MP4A	Mx	.002	5
85	MP4B	X	-5.8	2
86	MP4B	Z	-3.348	2
87	MP4B	Mx	-.00035	2
88	MP4B	X	-5.8	5
89	MP4B	Z	-3.348	5
90	MP4B	Mx	-.00035	5
91	MP4C	X	-4.195	2
92	MP4C	Z	-2.422	2
93	MP4C	Mx	-.002	2
94	MP4C	X	-4.195	5
95	MP4C	Z	-2.422	5
96	MP4C	Mx	-.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.196	1.5
2	MP2A	Z	-10.732	1.5
3	MP2A	Mx	-.005	1.5
4	MP2A	X	-6.196	5.5
5	MP2A	Z	-10.732	5.5
6	MP2A	Mx	-.005	5.5
7	MP2B	X	-6.241	1.5
8	MP2B	Z	-10.81	1.5
9	MP2B	Mx	.01	1.5
10	MP2B	X	-6.241	5.5
11	MP2B	Z	-10.81	5.5
12	MP2B	Mx	.01	5.5
13	MP2C	X	-4.854	1.5
14	MP2C	Z	-8.407	1.5
15	MP2C	Mx	-.004	1.5
16	MP2C	X	-4.854	5.5
17	MP2C	Z	-8.407	5.5
18	MP2C	Mx	-.004	5.5
19	MP2A	X	-6.196	1.5
20	MP2A	Z	-10.732	1.5
21	MP2A	Mx	.01	1.5
22	MP2A	X	-6.196	5.5
23	MP2A	Z	-10.732	5.5
24	MP2A	Mx	.01	5.5
25	MP2B	X	-6.241	1.5
26	MP2B	Z	-10.81	1.5
27	MP2B	Mx	-.005	1.5
28	MP2B	X	-6.241	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-10.81	5.5
30	MP2B	Mx	-.005	5.5
31	MP2C	X	-4.854	1.5
32	MP2C	Z	-8.407	1.5
33	MP2C	Mx	-.005	1.5
34	MP2C	X	-4.854	5.5
35	MP2C	Z	-8.407	5.5
36	MP2C	Mx	-.005	5.5
37	MP1A	X	-2.741	2.5
38	MP1A	Z	-4.747	2.5
39	MP1A	Mx	.001	2.5
40	MP1A	X	-2.741	4.5
41	MP1A	Z	-4.747	4.5
42	MP1A	Mx	.001	4.5
43	MP1B	X	-2.791	2.5
44	MP1B	Z	-4.835	2.5
45	MP1B	Mx	.001	2.5
46	MP1B	X	-2.791	4.5
47	MP1B	Z	-4.835	4.5
48	MP1B	Mx	.001	4.5
49	MP1C	X	-1.224	2.5
50	MP1C	Z	-2.12	2.5
51	MP1C	Mx	-.001	2.5
52	MP1C	X	-1.224	4.5
53	MP1C	Z	-2.12	4.5
54	MP1C	Mx	-.001	4.5
55	MP2A	X	-2.312	2.5
56	MP2A	Z	-4.005	2.5
57	MP2A	Mx	-.001	2.5
58	MP2B	X	-2.334	2.5
59	MP2B	Z	-4.043	2.5
60	MP2B	Mx	-.000949	2.5
61	MP2C	X	-1.655	2.5
62	MP2C	Z	-2.866	2.5
63	MP2C	Mx	.002	2.5
64	MP1A	X	-2.252	1.5
65	MP1A	Z	-3.901	1.5
66	MP1A	Mx	-.000987	1.5
67	MP1B	X	-2.282	1.5
68	MP1B	Z	-3.953	1.5
69	MP1B	Mx	-.000928	1.5
70	MP1C	X	-1.343	1.5
71	MP1C	Z	-2.326	1.5
72	MP1C	Mx	.001	1.5
73	MP3A	X	-4.68	2
74	MP3A	Z	-8.106	2
75	MP3A	Mx	-.002	2
76	MP3B	X	-4.726	2
77	MP3B	Z	-8.185	2
78	MP3B	Mx	-.002	2
79	MP4A	X	-3.138	2
80	MP4A	Z	-5.435	2
81	MP4A	Mx	.001	2
82	MP4A	X	-3.138	5
83	MP4A	Z	-5.435	5
84	MP4A	Mx	.001	5
85	MP4B	X	-3.169	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4B	Z	-5.489	2
87	MP4B	Mx	.001	2
88	MP4B	X	-3.169	5
89	MP4B	Z	-5.489	5
90	MP4B	Mx	.001	5
91	MP4C	X	-2.205	2
92	MP4C	Z	-3.818	2
93	MP4C	Mx	-.002	2
94	MP4C	X	-2.205	5
95	MP4C	Z	-3.818	5
96	MP4C	Mx	-.002	5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M10A	Y	-500	%5

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M10A	Y	-500	%88

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M9A	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M9A	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	Y	-9.066	-9.066	0	%100
2	M13	Y	-9.066	-9.066	0	%100
3	M7	Y	-9.066	-9.066	0	%100
4	M8	Y	-9.066	-9.066	0	%100
5	M9	Y	-9.066	-9.066	0	%100
6	M9A	Y	-9.066	-9.066	0	%100
7	M10A	Y	-9.066	-9.066	0	%100
8	M11A	Y	-9.066	-9.066	0	%100
9	M12B	Y	-9.066	-9.066	0	%100
10	M10	Y	-9.066	-9.066	0	%100
11	M11	Y	-9.066	-9.066	0	%100
12	M12A	Y	-9.066	-9.066	0	%100
13	M13A	Y	-9.066	-9.066	0	%100
14	M14	Y	-9.066	-9.066	0	%100
15	M17	Y	-5.595	-5.595	0	%100
16	M18	Y	-5.595	-5.595	0	%100
17	M19	Y	-2.321	-2.321	0	%100
18	M20	Y	-2.321	-2.321	0	%100
19	M21	Y	-2.321	-2.321	0	%100
20	M22	Y	-2.321	-2.321	0	%100
21	M23	Y	-12.888	-12.888	0	%100
22	M24	Y	-12.888	-12.888	0	%100
23	M25	Y	-12.888	-12.888	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	MP1A	Y	-4.957	-4.957	0	%100
25	MP2A	Y	-5.66	-5.66	0	%100
26	MP3A	Y	-4.957	-4.957	0	%100
27	MP4A	Y	-4.957	-4.957	0	%100
28	MP1C	Y	-4.957	-4.957	0	%100
29	MP2C	Y	-5.66	-5.66	0	%100
30	MP3C	Y	-4.957	-4.957	0	%100
31	MP4C	Y	-4.957	-4.957	0	%100
32	MP1B	Y	-4.957	-4.957	0	%100
33	MP2B	Y	-5.66	-5.66	0	%100
34	MP3B	Y	-4.957	-4.957	0	%100
35	MP4B	Y	-4.957	-4.957	0	%100
36	M50	Y	-12.888	-12.888	0	%100
37	M51	Y	-12.888	-12.888	0	%100
38	M52	Y	-12.888	-12.888	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	-7.857	-7.857	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	-7.857	-7.857	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-7.74	-7.74	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	-30.961	-30.961	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-7.74	-7.74	0	%100
11	M9A	X	0	0	0	%100
12	M9A	Z	-31.433	-31.433	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	-31.426	-31.426	0	%100
15	M11A	X	0	0	0	%100
16	M11A	Z	-7.822	-7.822	0	%100
17	M12B	X	0	0	0	%100
18	M12B	Z	-7.894	-7.894	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-6.971	-6.971	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-27.884	-27.884	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	-6.971	-6.971	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	-17.751	-17.751	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	-17.751	-17.751	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-15.779	-15.779	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	-15.779	-15.779	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	-1.775	-1.775	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	-1.775	-1.775	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	-1.775	-1.775	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	M22	X	0	0	0	%100
40	M22	Z	-1.775	-1.775	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	-.592	-.592	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	-2.367	-2.367	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	-.592	-.592	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	-11.243	-11.243	0	%100
49	MP2A	X	0	0	0	%100
50	MP2A	Z	-13.609	-13.609	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	-11.243	-11.243	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	-11.243	-11.243	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-11.243	-11.243	0	%100
57	MP2C	X	0	0	0	%100
58	MP2C	Z	-13.609	-13.609	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	-11.243	-11.243	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	-11.243	-11.243	0	%100
63	MP1B	X	0	0	0	%100
64	MP1B	Z	-11.243	-11.243	0	%100
65	MP2B	X	0	0	0	%100
66	MP2B	Z	-13.609	-13.609	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	-11.243	-11.243	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	-11.243	-11.243	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-.592	-.592	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-2.367	-2.367	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-.592	-.592	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	11.61	11.61	0	%100
8	M8	Z	-20.11	-20.11	0	%100
9	M9	X	11.61	11.61	0	%100
10	M9	Z	-20.11	-20.11	0	%100
11	M9A	X	11.805	11.805	0	%100
12	M9A	Z	-20.447	-20.447	0	%100
13	M10A	X	11.785	11.785	0	%100
14	M10A	Z	-20.412	-20.412	0	%100
15	M11A	X	11.769	11.769	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M11A	Z	-20.385	-20.385	0	%100
17	M12B	X	11.805	11.805	0	%100
18	M12B	Z	-20.447	-20.447	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	10.456	10.456	0	%100
22	M11	Z	-18.111	-18.111	0	%100
23	M12A	X	10.456	10.456	0	%100
24	M12A	Z	-18.111	-18.111	0	%100
25	M13A	X	11.834	11.834	0	%100
26	M13A	Z	-20.497	-20.497	0	%100
27	M14	X	11.834	11.834	0	%100
28	M14	Z	-20.497	-20.497	0	%100
29	M17	X	7.889	7.889	0	%100
30	M17	Z	-13.665	-13.665	0	%100
31	M18	X	7.889	7.889	0	%100
32	M18	Z	-13.665	-13.665	0	%100
33	M19	X	1.183	1.183	0	%100
34	M19	Z	-2.05	-2.05	0	%100
35	M20	X	1.183	1.183	0	%100
36	M20	Z	-2.05	-2.05	0	%100
37	M21	X	1.183	1.183	0	%100
38	M21	Z	-2.05	-2.05	0	%100
39	M22	X	1.183	1.183	0	%100
40	M22	Z	-2.05	-2.05	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	.888	.888	0	%100
44	M24	Z	-1.537	-1.537	0	%100
45	M25	X	.888	.888	0	%100
46	M25	Z	-1.537	-1.537	0	%100
47	MP1A	X	5.621	5.621	0	%100
48	MP1A	Z	-9.736	-9.736	0	%100
49	MP2A	X	6.805	6.805	0	%100
50	MP2A	Z	-11.786	-11.786	0	%100
51	MP3A	X	5.621	5.621	0	%100
52	MP3A	Z	-9.736	-9.736	0	%100
53	MP4A	X	5.621	5.621	0	%100
54	MP4A	Z	-9.736	-9.736	0	%100
55	MP1C	X	5.621	5.621	0	%100
56	MP1C	Z	-9.736	-9.736	0	%100
57	MP2C	X	6.805	6.805	0	%100
58	MP2C	Z	-11.786	-11.786	0	%100
59	MP3C	X	5.621	5.621	0	%100
60	MP3C	Z	-9.736	-9.736	0	%100
61	MP4C	X	5.621	5.621	0	%100
62	MP4C	Z	-9.736	-9.736	0	%100
63	MP1B	X	5.621	5.621	0	%100
64	MP1B	Z	-9.736	-9.736	0	%100
65	MP2B	X	6.805	6.805	0	%100
66	MP2B	Z	-11.786	-11.786	0	%100
67	MP3B	X	5.621	5.621	0	%100
68	MP3B	Z	-9.736	-9.736	0	%100
69	MP4B	X	5.621	5.621	0	%100
70	MP4B	Z	-9.736	-9.736	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
73	M51	X	.888	.888	0	%100
74	M51	Z	-1.537	-1.537	0	%100
75	M52	X	.888	.888	0	%100
76	M52	Z	-1.537	-1.537	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	6.804	6.804	0	%100
2	M12	Z	-3.928	-3.928	0	%100
3	M13	X	6.804	6.804	0	%100
4	M13	Z	-3.928	-3.928	0	%100
5	M7	X	6.703	6.703	0	%100
6	M7	Z	-3.87	-3.87	0	%100
7	M8	X	6.703	6.703	0	%100
8	M8	Z	-3.87	-3.87	0	%100
9	M9	X	26.813	26.813	0	%100
10	M9	Z	-15.48	-15.48	0	%100
11	M9A	X	6.837	6.837	0	%100
12	M9A	Z	-3.947	-3.947	0	%100
13	M10A	X	6.804	6.804	0	%100
14	M10A	Z	-3.928	-3.928	0	%100
15	M11A	X	27.222	27.222	0	%100
16	M11A	Z	-15.716	-15.716	0	%100
17	M12B	X	27.222	27.222	0	%100
18	M12B	Z	-15.716	-15.716	0	%100
19	M10	X	6.037	6.037	0	%100
20	M10	Z	-3.485	-3.485	0	%100
21	M11	X	6.037	6.037	0	%100
22	M11	Z	-3.485	-3.485	0	%100
23	M12A	X	24.148	24.148	0	%100
24	M12A	Z	-13.942	-13.942	0	%100
25	M13A	X	15.373	15.373	0	%100
26	M13A	Z	-8.876	-8.876	0	%100
27	M14	X	15.373	15.373	0	%100
28	M14	Z	-8.876	-8.876	0	%100
29	M17	X	13.665	13.665	0	%100
30	M17	Z	-7.889	-7.889	0	%100
31	M18	X	13.665	13.665	0	%100
32	M18	Z	-7.889	-7.889	0	%100
33	M19	X	1.537	1.537	0	%100
34	M19	Z	-.888	-.888	0	%100
35	M20	X	1.537	1.537	0	%100
36	M20	Z	-.888	-.888	0	%100
37	M21	X	1.537	1.537	0	%100
38	M21	Z	-.888	-.888	0	%100
39	M22	X	1.537	1.537	0	%100
40	M22	Z	-.888	-.888	0	%100
41	M23	X	.512	.512	0	%100
42	M23	Z	-.296	-.296	0	%100
43	M24	X	.512	.512	0	%100
44	M24	Z	-.296	-.296	0	%100
45	M25	X	2.05	2.05	0	%100
46	M25	Z	-1.183	-1.183	0	%100
47	MP1A	X	9.736	9.736	0	%100
48	MP1A	Z	-5.621	-5.621	0	%100
49	MP2A	X	11.786	11.786	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	MP2A	Z	-6.805	-6.805	0	%100
51	MP3A	X	9.736	9.736	0	%100
52	MP3A	Z	-5.621	-5.621	0	%100
53	MP4A	X	9.736	9.736	0	%100
54	MP4A	Z	-5.621	-5.621	0	%100
55	MP1C	X	9.736	9.736	0	%100
56	MP1C	Z	-5.621	-5.621	0	%100
57	MP2C	X	11.786	11.786	0	%100
58	MP2C	Z	-6.805	-6.805	0	%100
59	MP3C	X	9.736	9.736	0	%100
60	MP3C	Z	-5.621	-5.621	0	%100
61	MP4C	X	9.736	9.736	0	%100
62	MP4C	Z	-5.621	-5.621	0	%100
63	MP1B	X	9.736	9.736	0	%100
64	MP1B	Z	-5.621	-5.621	0	%100
65	MP2B	X	11.786	11.786	0	%100
66	MP2B	Z	-6.805	-6.805	0	%100
67	MP3B	X	9.736	9.736	0	%100
68	MP3B	Z	-5.621	-5.621	0	%100
69	MP4B	X	9.736	9.736	0	%100
70	MP4B	Z	-5.621	-5.621	0	%100
71	M50	X	.512	.512	0	%100
72	M50	Z	-.296	-.296	0	%100
73	M51	X	.512	.512	0	%100
74	M51	Z	-.296	-.296	0	%100
75	M52	X	2.05	2.05	0	%100
76	M52	Z	-1.183	-1.183	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	23.57	23.57	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	23.57	23.57	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	23.221	23.221	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	23.221	23.221	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	5.5e-5	5.5e-5	0	%100
12	M9A	Z	0	0	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	0	0	0	%100
15	M11A	X	23.611	23.611	0	%100
16	M11A	Z	0	0	0	%100
17	M12B	X	23.539	23.539	0	%100
18	M12B	Z	0	0	0	%100
19	M10	X	20.913	20.913	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12A	X	20.913	20.913	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	5.917	5.917	0	%100
26	M13A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	M14	X	5.917	5.917	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	15.779	15.779	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	15.779	15.779	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	.592	.592	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	.592	.592	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	.592	.592	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	.592	.592	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	1.775	1.775	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	1.775	1.775	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	11.243	11.243	0	%100
48	MP1A	Z	0	0	0	%100
49	MP2A	X	13.609	13.609	0	%100
50	MP2A	Z	0	0	0	%100
51	MP3A	X	11.243	11.243	0	%100
52	MP3A	Z	0	0	0	%100
53	MP4A	X	11.243	11.243	0	%100
54	MP4A	Z	0	0	0	%100
55	MP1C	X	11.243	11.243	0	%100
56	MP1C	Z	0	0	0	%100
57	MP2C	X	13.609	13.609	0	%100
58	MP2C	Z	0	0	0	%100
59	MP3C	X	11.243	11.243	0	%100
60	MP3C	Z	0	0	0	%100
61	MP4C	X	11.243	11.243	0	%100
62	MP4C	Z	0	0	0	%100
63	MP1B	X	11.243	11.243	0	%100
64	MP1B	Z	0	0	0	%100
65	MP2B	X	13.609	13.609	0	%100
66	MP2B	Z	0	0	0	%100
67	MP3B	X	11.243	11.243	0	%100
68	MP3B	Z	0	0	0	%100
69	MP4B	X	11.243	11.243	0	%100
70	MP4B	Z	0	0	0	%100
71	M50	X	1.775	1.775	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	1.775	1.775	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	27.216	27.216	0	%100
2	M12	Z	15.713	15.713	0	%100
3	M13	X	27.216	27.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M13	Z	15.713	15.713	0	%100
5	M7	X	26.813	26.813	0	%100
6	M7	Z	15.48	15.48	0	%100
7	M8	X	6.703	6.703	0	%100
8	M8	Z	3.87	3.87	0	%100
9	M9	X	6.703	6.703	0	%100
10	M9	Z	3.87	3.87	0	%100
11	M9A	X	6.774	6.774	0	%100
12	M9A	Z	3.911	3.911	0	%100
13	M10A	X	6.804	6.804	0	%100
14	M10A	Z	3.928	3.928	0	%100
15	M11A	X	6.837	6.837	0	%100
16	M11A	Z	3.947	3.947	0	%100
17	M12B	X	6.774	6.774	0	%100
18	M12B	Z	3.911	3.911	0	%100
19	M10	X	24.148	24.148	0	%100
20	M10	Z	13.942	13.942	0	%100
21	M11	X	6.037	6.037	0	%100
22	M11	Z	3.485	3.485	0	%100
23	M12A	X	6.037	6.037	0	%100
24	M12A	Z	3.485	3.485	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	13.665	13.665	0	%100
30	M17	Z	7.889	7.889	0	%100
31	M18	X	13.665	13.665	0	%100
32	M18	Z	7.889	7.889	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	2.05	2.05	0	%100
42	M23	Z	1.183	1.183	0	%100
43	M24	X	.512	.512	0	%100
44	M24	Z	.296	.296	0	%100
45	M25	X	.512	.512	0	%100
46	M25	Z	.296	.296	0	%100
47	MP1A	X	9.736	9.736	0	%100
48	MP1A	Z	5.621	5.621	0	%100
49	MP2A	X	11.786	11.786	0	%100
50	MP2A	Z	6.805	6.805	0	%100
51	MP3A	X	9.736	9.736	0	%100
52	MP3A	Z	5.621	5.621	0	%100
53	MP4A	X	9.736	9.736	0	%100
54	MP4A	Z	5.621	5.621	0	%100
55	MP1C	X	9.736	9.736	0	%100
56	MP1C	Z	5.621	5.621	0	%100
57	MP2C	X	11.786	11.786	0	%100
58	MP2C	Z	6.805	6.805	0	%100
59	MP3C	X	9.736	9.736	0	%100
60	MP3C	Z	5.621	5.621	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
61	MP4C	X	9.736	9.736	0	%100
62	MP4C	Z	5.621	5.621	0	%100
63	MP1B	X	9.736	9.736	0	%100
64	MP1B	Z	5.621	5.621	0	%100
65	MP2B	X	11.786	11.786	0	%100
66	MP2B	Z	6.805	6.805	0	%100
67	MP3B	X	9.736	9.736	0	%100
68	MP3B	Z	5.621	5.621	0	%100
69	MP4B	X	9.736	9.736	0	%100
70	MP4B	Z	5.621	5.621	0	%100
71	M50	X	2.05	2.05	0	%100
72	M50	Z	1.183	1.183	0	%100
73	M51	X	.512	.512	0	%100
74	M51	Z	.296	.296	0	%100
75	M52	X	.512	.512	0	%100
76	M52	Z	.296	.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	11.785	11.785	0	%100
2	M12	Z	20.412	20.412	0	%100
3	M13	X	11.785	11.785	0	%100
4	M13	Z	20.412	20.412	0	%100
5	M7	X	11.61	11.61	0	%100
6	M7	Z	20.11	20.11	0	%100
7	M8	X	11.61	11.61	0	%100
8	M8	Z	20.11	20.11	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	11.769	11.769	0	%100
12	M9A	Z	20.385	20.385	0	%100
13	M10A	X	11.785	11.785	0	%100
14	M10A	Z	20.412	20.412	0	%100
15	M11A	X	2.7e-5	2.7e-5	0	%100
16	M11A	Z	4.7e-5	4.7e-5	0	%100
17	M12B	X	2.7e-5	2.7e-5	0	%100
18	M12B	Z	4.7e-5	4.7e-5	0	%100
19	M10	X	10.456	10.456	0	%100
20	M10	Z	18.111	18.111	0	%100
21	M11	X	10.456	10.456	0	%100
22	M11	Z	18.111	18.111	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	2.959	2.959	0	%100
26	M13A	Z	5.124	5.124	0	%100
27	M14	X	2.959	2.959	0	%100
28	M14	Z	5.124	5.124	0	%100
29	M17	X	7.889	7.889	0	%100
30	M17	Z	13.665	13.665	0	%100
31	M18	X	7.889	7.889	0	%100
32	M18	Z	13.665	13.665	0	%100
33	M19	X	.296	.296	0	%100
34	M19	Z	.512	.512	0	%100
35	M20	X	.296	.296	0	%100
36	M20	Z	.512	.512	0	%100
37	M21	X	.296	.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	M21	Z	.512	.512	0	%100
39	M22	X	.296	.296	0	%100
40	M22	Z	.512	.512	0	%100
41	M23	X	.888	.888	0	%100
42	M23	Z	1.537	1.537	0	%100
43	M24	X	.888	.888	0	%100
44	M24	Z	1.537	1.537	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	5.621	5.621	0	%100
48	MP1A	Z	9.736	9.736	0	%100
49	MP2A	X	6.805	6.805	0	%100
50	MP2A	Z	11.786	11.786	0	%100
51	MP3A	X	5.621	5.621	0	%100
52	MP3A	Z	9.736	9.736	0	%100
53	MP4A	X	5.621	5.621	0	%100
54	MP4A	Z	9.736	9.736	0	%100
55	MP1C	X	5.621	5.621	0	%100
56	MP1C	Z	9.736	9.736	0	%100
57	MP2C	X	6.805	6.805	0	%100
58	MP2C	Z	11.786	11.786	0	%100
59	MP3C	X	5.621	5.621	0	%100
60	MP3C	Z	9.736	9.736	0	%100
61	MP4C	X	5.621	5.621	0	%100
62	MP4C	Z	9.736	9.736	0	%100
63	MP1B	X	5.621	5.621	0	%100
64	MP1B	Z	9.736	9.736	0	%100
65	MP2B	X	6.805	6.805	0	%100
66	MP2B	Z	11.786	11.786	0	%100
67	MP3B	X	5.621	5.621	0	%100
68	MP3B	Z	9.736	9.736	0	%100
69	MP4B	X	5.621	5.621	0	%100
70	MP4B	Z	9.736	9.736	0	%100
71	M50	X	.888	.888	0	%100
72	M50	Z	1.537	1.537	0	%100
73	M51	X	.888	.888	0	%100
74	M51	Z	1.537	1.537	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	7.857	7.857	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	7.857	7.857	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	7.74	7.74	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	30.961	30.961	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	7.74	7.74	0	%100
11	M9A	X	0	0	0	%100
12	M9A	Z	31.433	31.433	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	31.426	31.426	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
15	M11A	X	0	0	0	%100
16	M11A	Z	7.822	7.822	0	%100
17	M12B	X	0	0	0	%100
18	M12B	Z	7.894	7.894	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	6.971	6.971	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	27.884	27.884	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	6.971	6.971	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	17.751	17.751	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	17.751	17.751	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	15.779	15.779	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	15.779	15.779	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	1.775	1.775	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	1.775	1.775	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	1.775	1.775	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	1.775	1.775	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	.592	.592	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	2.367	2.367	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	.592	.592	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	11.243	11.243	0	%100
49	MP2A	X	0	0	0	%100
50	MP2A	Z	13.609	13.609	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	11.243	11.243	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	11.243	11.243	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	11.243	11.243	0	%100
57	MP2C	X	0	0	0	%100
58	MP2C	Z	13.609	13.609	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	11.243	11.243	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	11.243	11.243	0	%100
63	MP1B	X	0	0	0	%100
64	MP1B	Z	11.243	11.243	0	%100
65	MP2B	X	0	0	0	%100
66	MP2B	Z	13.609	13.609	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	11.243	11.243	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	11.243	11.243	0	%100
71	M50	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	M50	Z	.592	.592	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	2.367	2.367	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	.592	.592	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	-11.61	-11.61	0	%100
8	M8	Z	20.11	20.11	0	%100
9	M9	X	-11.61	-11.61	0	%100
10	M9	Z	20.11	20.11	0	%100
11	M9A	X	-11.805	-11.805	0	%100
12	M9A	Z	20.447	20.447	0	%100
13	M10A	X	-11.785	-11.785	0	%100
14	M10A	Z	20.412	20.412	0	%100
15	M11A	X	-11.769	-11.769	0	%100
16	M11A	Z	20.385	20.385	0	%100
17	M12B	X	-11.805	-11.805	0	%100
18	M12B	Z	20.447	20.447	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-10.456	-10.456	0	%100
22	M11	Z	18.111	18.111	0	%100
23	M12A	X	-10.456	-10.456	0	%100
24	M12A	Z	18.111	18.111	0	%100
25	M13A	X	-11.834	-11.834	0	%100
26	M13A	Z	20.497	20.497	0	%100
27	M14	X	-11.834	-11.834	0	%100
28	M14	Z	20.497	20.497	0	%100
29	M17	X	-7.889	-7.889	0	%100
30	M17	Z	13.665	13.665	0	%100
31	M18	X	-7.889	-7.889	0	%100
32	M18	Z	13.665	13.665	0	%100
33	M19	X	-1.183	-1.183	0	%100
34	M19	Z	2.05	2.05	0	%100
35	M20	X	-1.183	-1.183	0	%100
36	M20	Z	2.05	2.05	0	%100
37	M21	X	-1.183	-1.183	0	%100
38	M21	Z	2.05	2.05	0	%100
39	M22	X	-1.183	-1.183	0	%100
40	M22	Z	2.05	2.05	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	-.888	-.888	0	%100
44	M24	Z	1.537	1.537	0	%100
45	M25	X	-.888	-.888	0	%100
46	M25	Z	1.537	1.537	0	%100
47	MP1A	X	-5.621	-5.621	0	%100
48	MP1A	Z	9.736	9.736	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
49	MP2A	X	-6.805	-6.805	0	%100
50	MP2A	Z	11.786	11.786	0	%100
51	MP3A	X	-5.621	-5.621	0	%100
52	MP3A	Z	9.736	9.736	0	%100
53	MP4A	X	-5.621	-5.621	0	%100
54	MP4A	Z	9.736	9.736	0	%100
55	MP1C	X	-5.621	-5.621	0	%100
56	MP1C	Z	9.736	9.736	0	%100
57	MP2C	X	-6.805	-6.805	0	%100
58	MP2C	Z	11.786	11.786	0	%100
59	MP3C	X	-5.621	-5.621	0	%100
60	MP3C	Z	9.736	9.736	0	%100
61	MP4C	X	-5.621	-5.621	0	%100
62	MP4C	Z	9.736	9.736	0	%100
63	MP1B	X	-5.621	-5.621	0	%100
64	MP1B	Z	9.736	9.736	0	%100
65	MP2B	X	-6.805	-6.805	0	%100
66	MP2B	Z	11.786	11.786	0	%100
67	MP3B	X	-5.621	-5.621	0	%100
68	MP3B	Z	9.736	9.736	0	%100
69	MP4B	X	-5.621	-5.621	0	%100
70	MP4B	Z	9.736	9.736	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-.888	-.888	0	%100
74	M51	Z	1.537	1.537	0	%100
75	M52	X	-.888	-.888	0	%100
76	M52	Z	1.537	1.537	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-6.804	-6.804	0	%100
2	M12	Z	3.928	3.928	0	%100
3	M13	X	-6.804	-6.804	0	%100
4	M13	Z	3.928	3.928	0	%100
5	M7	X	-6.703	-6.703	0	%100
6	M7	Z	3.87	3.87	0	%100
7	M8	X	-6.703	-6.703	0	%100
8	M8	Z	3.87	3.87	0	%100
9	M9	X	-26.813	-26.813	0	%100
10	M9	Z	15.48	15.48	0	%100
11	M9A	X	-6.837	-6.837	0	%100
12	M9A	Z	3.947	3.947	0	%100
13	M10A	X	-6.804	-6.804	0	%100
14	M10A	Z	3.928	3.928	0	%100
15	M11A	X	-27.222	-27.222	0	%100
16	M11A	Z	15.716	15.716	0	%100
17	M12B	X	-27.222	-27.222	0	%100
18	M12B	Z	15.716	15.716	0	%100
19	M10	X	-6.037	-6.037	0	%100
20	M10	Z	3.485	3.485	0	%100
21	M11	X	-6.037	-6.037	0	%100
22	M11	Z	3.485	3.485	0	%100
23	M12A	X	-24.148	-24.148	0	%100
24	M12A	Z	13.942	13.942	0	%100
25	M13A	X	-15.373	-15.373	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	M13A	Z	8.876	8.876	0	%100
27	M14	X	-15.373	-15.373	0	%100
28	M14	Z	8.876	8.876	0	%100
29	M17	X	-13.665	-13.665	0	%100
30	M17	Z	7.889	7.889	0	%100
31	M18	X	-13.665	-13.665	0	%100
32	M18	Z	7.889	7.889	0	%100
33	M19	X	-1.537	-1.537	0	%100
34	M19	Z	.888	.888	0	%100
35	M20	X	-1.537	-1.537	0	%100
36	M20	Z	.888	.888	0	%100
37	M21	X	-1.537	-1.537	0	%100
38	M21	Z	.888	.888	0	%100
39	M22	X	-1.537	-1.537	0	%100
40	M22	Z	.888	.888	0	%100
41	M23	X	-.512	-.512	0	%100
42	M23	Z	.296	.296	0	%100
43	M24	X	-.512	-.512	0	%100
44	M24	Z	.296	.296	0	%100
45	M25	X	-2.05	-2.05	0	%100
46	M25	Z	1.183	1.183	0	%100
47	MP1A	X	-9.736	-9.736	0	%100
48	MP1A	Z	5.621	5.621	0	%100
49	MP2A	X	-11.786	-11.786	0	%100
50	MP2A	Z	6.805	6.805	0	%100
51	MP3A	X	-9.736	-9.736	0	%100
52	MP3A	Z	5.621	5.621	0	%100
53	MP4A	X	-9.736	-9.736	0	%100
54	MP4A	Z	5.621	5.621	0	%100
55	MP1C	X	-9.736	-9.736	0	%100
56	MP1C	Z	5.621	5.621	0	%100
57	MP2C	X	-11.786	-11.786	0	%100
58	MP2C	Z	6.805	6.805	0	%100
59	MP3C	X	-9.736	-9.736	0	%100
60	MP3C	Z	5.621	5.621	0	%100
61	MP4C	X	-9.736	-9.736	0	%100
62	MP4C	Z	5.621	5.621	0	%100
63	MP1B	X	-9.736	-9.736	0	%100
64	MP1B	Z	5.621	5.621	0	%100
65	MP2B	X	-11.786	-11.786	0	%100
66	MP2B	Z	6.805	6.805	0	%100
67	MP3B	X	-9.736	-9.736	0	%100
68	MP3B	Z	5.621	5.621	0	%100
69	MP4B	X	-9.736	-9.736	0	%100
70	MP4B	Z	5.621	5.621	0	%100
71	M50	X	-.512	-.512	0	%100
72	M50	Z	.296	.296	0	%100
73	M51	X	-.512	-.512	0	%100
74	M51	Z	.296	.296	0	%100
75	M52	X	-2.05	-2.05	0	%100
76	M52	Z	1.183	1.183	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-23.57	-23.57	0	%100
2	M12	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
3	M13	X	-23.57	-23.57	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	-23.221	-23.221	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	-23.221	-23.221	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	-5.5e-5	-5.5e-5	0	%100
12	M9A	Z	0	0	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	0	0	0	%100
15	M11A	X	-23.611	-23.611	0	%100
16	M11A	Z	0	0	0	%100
17	M12B	X	-23.539	-23.539	0	%100
18	M12B	Z	0	0	0	%100
19	M10	X	-20.913	-20.913	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12A	X	-20.913	-20.913	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	-5.917	-5.917	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	-5.917	-5.917	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	-15.779	-15.779	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	-15.779	-15.779	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	-.592	-.592	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	-.592	-.592	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	-.592	-.592	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	-.592	-.592	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-1.775	-1.775	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	-1.775	-1.775	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	-11.243	-11.243	0	%100
48	MP1A	Z	0	0	0	%100
49	MP2A	X	-13.609	-13.609	0	%100
50	MP2A	Z	0	0	0	%100
51	MP3A	X	-11.243	-11.243	0	%100
52	MP3A	Z	0	0	0	%100
53	MP4A	X	-11.243	-11.243	0	%100
54	MP4A	Z	0	0	0	%100
55	MP1C	X	-11.243	-11.243	0	%100
56	MP1C	Z	0	0	0	%100
57	MP2C	X	-13.609	-13.609	0	%100
58	MP2C	Z	0	0	0	%100
59	MP3C	X	-11.243	-11.243	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
60	MP3C	Z	0	0	0	%100
61	MP4C	X	-11.243	-11.243	0	%100
62	MP4C	Z	0	0	0	%100
63	MP1B	X	-11.243	-11.243	0	%100
64	MP1B	Z	0	0	0	%100
65	MP2B	X	-13.609	-13.609	0	%100
66	MP2B	Z	0	0	0	%100
67	MP3B	X	-11.243	-11.243	0	%100
68	MP3B	Z	0	0	0	%100
69	MP4B	X	-11.243	-11.243	0	%100
70	MP4B	Z	0	0	0	%100
71	M50	X	-1.775	-1.775	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-1.775	-1.775	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-27.216	-27.216	0	%100
2	M12	Z	-15.713	-15.713	0	%100
3	M13	X	-27.216	-27.216	0	%100
4	M13	Z	-15.713	-15.713	0	%100
5	M7	X	-26.813	-26.813	0	%100
6	M7	Z	-15.48	-15.48	0	%100
7	M8	X	-6.703	-6.703	0	%100
8	M8	Z	-3.87	-3.87	0	%100
9	M9	X	-6.703	-6.703	0	%100
10	M9	Z	-3.87	-3.87	0	%100
11	M9A	X	-6.774	-6.774	0	%100
12	M9A	Z	-3.911	-3.911	0	%100
13	M10A	X	-6.804	-6.804	0	%100
14	M10A	Z	-3.928	-3.928	0	%100
15	M11A	X	-6.837	-6.837	0	%100
16	M11A	Z	-3.947	-3.947	0	%100
17	M12B	X	-6.774	-6.774	0	%100
18	M12B	Z	-3.911	-3.911	0	%100
19	M10	X	-24.148	-24.148	0	%100
20	M10	Z	-13.942	-13.942	0	%100
21	M11	X	-6.037	-6.037	0	%100
22	M11	Z	-3.485	-3.485	0	%100
23	M12A	X	-6.037	-6.037	0	%100
24	M12A	Z	-3.485	-3.485	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	-13.665	-13.665	0	%100
30	M17	Z	-7.889	-7.889	0	%100
31	M18	X	-13.665	-13.665	0	%100
32	M18	Z	-7.889	-7.889	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	M21	X	0	0	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-2.05	-2.05	0	%100
42	M23	Z	-1.183	-1.183	0	%100
43	M24	X	-.512	-.512	0	%100
44	M24	Z	-.296	-.296	0	%100
45	M25	X	-.512	-.512	0	%100
46	M25	Z	-.296	-.296	0	%100
47	MP1A	X	-9.736	-9.736	0	%100
48	MP1A	Z	-5.621	-5.621	0	%100
49	MP2A	X	-11.786	-11.786	0	%100
50	MP2A	Z	-6.805	-6.805	0	%100
51	MP3A	X	-9.736	-9.736	0	%100
52	MP3A	Z	-5.621	-5.621	0	%100
53	MP4A	X	-9.736	-9.736	0	%100
54	MP4A	Z	-5.621	-5.621	0	%100
55	MP1C	X	-9.736	-9.736	0	%100
56	MP1C	Z	-5.621	-5.621	0	%100
57	MP2C	X	-11.786	-11.786	0	%100
58	MP2C	Z	-6.805	-6.805	0	%100
59	MP3C	X	-9.736	-9.736	0	%100
60	MP3C	Z	-5.621	-5.621	0	%100
61	MP4C	X	-9.736	-9.736	0	%100
62	MP4C	Z	-5.621	-5.621	0	%100
63	MP1B	X	-9.736	-9.736	0	%100
64	MP1B	Z	-5.621	-5.621	0	%100
65	MP2B	X	-11.786	-11.786	0	%100
66	MP2B	Z	-6.805	-6.805	0	%100
67	MP3B	X	-9.736	-9.736	0	%100
68	MP3B	Z	-5.621	-5.621	0	%100
69	MP4B	X	-9.736	-9.736	0	%100
70	MP4B	Z	-5.621	-5.621	0	%100
71	M50	X	-2.05	-2.05	0	%100
72	M50	Z	-1.183	-1.183	0	%100
73	M51	X	-.512	-.512	0	%100
74	M51	Z	-.296	-.296	0	%100
75	M52	X	-.512	-.512	0	%100
76	M52	Z	-.296	-.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-11.785	-11.785	0	%100
2	M12	Z	-20.412	-20.412	0	%100
3	M13	X	-11.785	-11.785	0	%100
4	M13	Z	-20.412	-20.412	0	%100
5	M7	X	-11.61	-11.61	0	%100
6	M7	Z	-20.11	-20.11	0	%100
7	M8	X	-11.61	-11.61	0	%100
8	M8	Z	-20.11	-20.11	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	-11.769	-11.769	0	%100
12	M9A	Z	-20.385	-20.385	0	%100
13	M10A	X	-11.785	-11.785	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M10A	Z	-20.412	-20.412	0	%100
15	M11A	X	-2.7e-5	-2.7e-5	0	%100
16	M11A	Z	-4.7e-5	-4.7e-5	0	%100
17	M12B	X	-2.7e-5	-2.7e-5	0	%100
18	M12B	Z	-4.7e-5	-4.7e-5	0	%100
19	M10	X	-10.456	-10.456	0	%100
20	M10	Z	-18.111	-18.111	0	%100
21	M11	X	-10.456	-10.456	0	%100
22	M11	Z	-18.111	-18.111	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	-2.959	-2.959	0	%100
26	M13A	Z	-5.124	-5.124	0	%100
27	M14	X	-2.959	-2.959	0	%100
28	M14	Z	-5.124	-5.124	0	%100
29	M17	X	-7.889	-7.889	0	%100
30	M17	Z	-13.665	-13.665	0	%100
31	M18	X	-7.889	-7.889	0	%100
32	M18	Z	-13.665	-13.665	0	%100
33	M19	X	-.296	-.296	0	%100
34	M19	Z	-.512	-.512	0	%100
35	M20	X	-.296	-.296	0	%100
36	M20	Z	-.512	-.512	0	%100
37	M21	X	-.296	-.296	0	%100
38	M21	Z	-.512	-.512	0	%100
39	M22	X	-.296	-.296	0	%100
40	M22	Z	-.512	-.512	0	%100
41	M23	X	-.888	-.888	0	%100
42	M23	Z	-1.537	-1.537	0	%100
43	M24	X	-.888	-.888	0	%100
44	M24	Z	-1.537	-1.537	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	-5.621	-5.621	0	%100
48	MP1A	Z	-9.736	-9.736	0	%100
49	MP2A	X	-6.805	-6.805	0	%100
50	MP2A	Z	-11.786	-11.786	0	%100
51	MP3A	X	-5.621	-5.621	0	%100
52	MP3A	Z	-9.736	-9.736	0	%100
53	MP4A	X	-5.621	-5.621	0	%100
54	MP4A	Z	-9.736	-9.736	0	%100
55	MP1C	X	-5.621	-5.621	0	%100
56	MP1C	Z	-9.736	-9.736	0	%100
57	MP2C	X	-6.805	-6.805	0	%100
58	MP2C	Z	-11.786	-11.786	0	%100
59	MP3C	X	-5.621	-5.621	0	%100
60	MP3C	Z	-9.736	-9.736	0	%100
61	MP4C	X	-5.621	-5.621	0	%100
62	MP4C	Z	-9.736	-9.736	0	%100
63	MP1B	X	-5.621	-5.621	0	%100
64	MP1B	Z	-9.736	-9.736	0	%100
65	MP2B	X	-6.805	-6.805	0	%100
66	MP2B	Z	-11.786	-11.786	0	%100
67	MP3B	X	-5.621	-5.621	0	%100
68	MP3B	Z	-9.736	-9.736	0	%100
69	MP4B	X	-5.621	-5.621	0	%100
70	MP4B	Z	-9.736	-9.736	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	M50	X	-.888	-.888	0	%100
72	M50	Z	-1.537	-1.537	0	%100
73	M51	X	-.888	-.888	0	%100
74	M51	Z	-1.537	-1.537	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	-1.64	-1.64	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	-1.64	-1.64	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-1.622	-1.622	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	-6.488	-6.488	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-1.622	-1.622	0	%100
11	M9A	X	0	0	0	%100
12	M9A	Z	-6.561	-6.561	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	-6.56	-6.56	0	%100
15	M11A	X	0	0	0	%100
16	M11A	Z	-1.633	-1.633	0	%100
17	M12B	X	0	0	0	%100
18	M12B	Z	-1.648	-1.648	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-1.433	-1.433	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-5.732	-5.732	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	-1.433	-1.433	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	-3.535	-3.535	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	-3.535	-3.535	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-4.135	-4.135	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	-4.135	-4.135	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	-1.088	-1.088	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	-1.088	-1.088	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	-1.088	-1.088	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	-1.088	-1.088	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	-.352	-.352	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	-1.406	-1.406	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	-.352	-.352	0	%100
47	MP1A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	MP1A	Z	-3.431	-3.431	0	%100
49	MP2A	X	0	0	0	%100
50	MP2A	Z	-3.798	-3.798	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	-3.431	-3.431	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	-3.431	-3.431	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-3.431	-3.431	0	%100
57	MP2C	X	0	0	0	%100
58	MP2C	Z	-3.798	-3.798	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	-3.431	-3.431	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	-3.431	-3.431	0	%100
63	MP1B	X	0	0	0	%100
64	MP1B	Z	-3.431	-3.431	0	%100
65	MP2B	X	0	0	0	%100
66	MP2B	Z	-3.798	-3.798	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	-3.431	-3.431	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	-3.431	-3.431	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-.352	-.352	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-1.406	-1.406	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-.352	-.352	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	2.433	2.433	0	%100
8	M8	Z	-4.214	-4.214	0	%100
9	M9	X	2.433	2.433	0	%100
10	M9	Z	-4.214	-4.214	0	%100
11	M9A	X	2.464	2.464	0	%100
12	M9A	Z	-4.268	-4.268	0	%100
13	M10A	X	2.46	2.46	0	%100
14	M10A	Z	-4.261	-4.261	0	%100
15	M11A	X	2.457	2.457	0	%100
16	M11A	Z	-4.255	-4.255	0	%100
17	M12B	X	2.464	2.464	0	%100
18	M12B	Z	-4.268	-4.268	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	2.15	2.15	0	%100
22	M11	Z	-3.723	-3.723	0	%100
23	M12A	X	2.15	2.15	0	%100
24	M12A	Z	-3.723	-3.723	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	M13A	X	2.357	2.357	0	%100
26	M13A	Z	-4.082	-4.082	0	%100
27	M14	X	2.357	2.357	0	%100
28	M14	Z	-4.082	-4.082	0	%100
29	M17	X	2.067	2.067	0	%100
30	M17	Z	-3.581	-3.581	0	%100
31	M18	X	2.067	2.067	0	%100
32	M18	Z	-3.581	-3.581	0	%100
33	M19	X	.725	.725	0	%100
34	M19	Z	-1.256	-1.256	0	%100
35	M20	X	.725	.725	0	%100
36	M20	Z	-1.256	-1.256	0	%100
37	M21	X	.725	.725	0	%100
38	M21	Z	-1.256	-1.256	0	%100
39	M22	X	.725	.725	0	%100
40	M22	Z	-1.256	-1.256	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	.527	.527	0	%100
44	M24	Z	-.914	-.914	0	%100
45	M25	X	.527	.527	0	%100
46	M25	Z	-.914	-.914	0	%100
47	MP1A	X	1.716	1.716	0	%100
48	MP1A	Z	-2.972	-2.972	0	%100
49	MP2A	X	1.899	1.899	0	%100
50	MP2A	Z	-3.289	-3.289	0	%100
51	MP3A	X	1.716	1.716	0	%100
52	MP3A	Z	-2.972	-2.972	0	%100
53	MP4A	X	1.716	1.716	0	%100
54	MP4A	Z	-2.972	-2.972	0	%100
55	MP1C	X	1.716	1.716	0	%100
56	MP1C	Z	-2.972	-2.972	0	%100
57	MP2C	X	1.899	1.899	0	%100
58	MP2C	Z	-3.289	-3.289	0	%100
59	MP3C	X	1.716	1.716	0	%100
60	MP3C	Z	-2.972	-2.972	0	%100
61	MP4C	X	1.716	1.716	0	%100
62	MP4C	Z	-2.972	-2.972	0	%100
63	MP1B	X	1.716	1.716	0	%100
64	MP1B	Z	-2.972	-2.972	0	%100
65	MP2B	X	1.899	1.899	0	%100
66	MP2B	Z	-3.289	-3.289	0	%100
67	MP3B	X	1.716	1.716	0	%100
68	MP3B	Z	-2.972	-2.972	0	%100
69	MP4B	X	1.716	1.716	0	%100
70	MP4B	Z	-2.972	-2.972	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	.527	.527	0	%100
74	M51	Z	-.914	-.914	0	%100
75	M52	X	.527	.527	0	%100
76	M52	Z	-.914	-.914	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	1.42	1.42	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M12	Z	-.82	-.82	0	%100
3	M13	X	1.42	1.42	0	%100
4	M13	Z	-.82	-.82	0	%100
5	M7	X	1.405	1.405	0	%100
6	M7	Z	-.811	-.811	0	%100
7	M8	X	1.405	1.405	0	%100
8	M8	Z	-.811	-.811	0	%100
9	M9	X	5.619	5.619	0	%100
10	M9	Z	-3.244	-3.244	0	%100
11	M9A	X	1.427	1.427	0	%100
12	M9A	Z	-.824	-.824	0	%100
13	M10A	X	1.42	1.42	0	%100
14	M10A	Z	-.82	-.82	0	%100
15	M11A	X	5.682	5.682	0	%100
16	M11A	Z	-3.28	-3.28	0	%100
17	M12B	X	5.682	5.682	0	%100
18	M12B	Z	-3.28	-3.28	0	%100
19	M10	X	1.241	1.241	0	%100
20	M10	Z	-.717	-.717	0	%100
21	M11	X	1.241	1.241	0	%100
22	M11	Z	-.717	-.717	0	%100
23	M12A	X	4.964	4.964	0	%100
24	M12A	Z	-2.866	-2.866	0	%100
25	M13A	X	3.061	3.061	0	%100
26	M13A	Z	-1.767	-1.767	0	%100
27	M14	X	3.061	3.061	0	%100
28	M14	Z	-1.767	-1.767	0	%100
29	M17	X	3.581	3.581	0	%100
30	M17	Z	-2.067	-2.067	0	%100
31	M18	X	3.581	3.581	0	%100
32	M18	Z	-2.067	-2.067	0	%100
33	M19	X	.942	.942	0	%100
34	M19	Z	-.544	-.544	0	%100
35	M20	X	.942	.942	0	%100
36	M20	Z	-.544	-.544	0	%100
37	M21	X	.942	.942	0	%100
38	M21	Z	-.544	-.544	0	%100
39	M22	X	.942	.942	0	%100
40	M22	Z	-.544	-.544	0	%100
41	M23	X	.305	.305	0	%100
42	M23	Z	-.176	-.176	0	%100
43	M24	X	.305	.305	0	%100
44	M24	Z	-.176	-.176	0	%100
45	M25	X	1.218	1.218	0	%100
46	M25	Z	-.703	-.703	0	%100
47	MP1A	X	2.972	2.972	0	%100
48	MP1A	Z	-1.716	-1.716	0	%100
49	MP2A	X	3.289	3.289	0	%100
50	MP2A	Z	-1.899	-1.899	0	%100
51	MP3A	X	2.972	2.972	0	%100
52	MP3A	Z	-1.716	-1.716	0	%100
53	MP4A	X	2.972	2.972	0	%100
54	MP4A	Z	-1.716	-1.716	0	%100
55	MP1C	X	2.972	2.972	0	%100
56	MP1C	Z	-1.716	-1.716	0	%100
57	MP2C	X	3.289	3.289	0	%100
58	MP2C	Z	-1.899	-1.899	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP3C	X	2.972	2.972	0	%100
60	MP3C	Z	-1.716	-1.716	0	%100
61	MP4C	X	2.972	2.972	0	%100
62	MP4C	Z	-1.716	-1.716	0	%100
63	MP1B	X	2.972	2.972	0	%100
64	MP1B	Z	-1.716	-1.716	0	%100
65	MP2B	X	3.289	3.289	0	%100
66	MP2B	Z	-1.899	-1.899	0	%100
67	MP3B	X	2.972	2.972	0	%100
68	MP3B	Z	-1.716	-1.716	0	%100
69	MP4B	X	2.972	2.972	0	%100
70	MP4B	Z	-1.716	-1.716	0	%100
71	M50	X	.305	.305	0	%100
72	M50	Z	-.176	-.176	0	%100
73	M51	X	.305	.305	0	%100
74	M51	Z	-.176	-.176	0	%100
75	M52	X	1.218	1.218	0	%100
76	M52	Z	-.703	-.703	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	4.92	4.92	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	4.92	4.92	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	4.866	4.866	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	4.866	4.866	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	1.1e-5	1.1e-5	0	%100
12	M9A	Z	0	0	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	0	0	0	%100
15	M11A	X	4.928	4.928	0	%100
16	M11A	Z	0	0	0	%100
17	M12B	X	4.913	4.913	0	%100
18	M12B	Z	0	0	0	%100
19	M10	X	4.299	4.299	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12A	X	4.299	4.299	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	1.178	1.178	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	1.178	1.178	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	4.135	4.135	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	4.135	4.135	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	.363	.363	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	.363	.363	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	M20	Z	0	0	0	%100
37	M21	X	.363	.363	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	.363	.363	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	1.055	1.055	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	1.055	1.055	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	3.431	3.431	0	%100
48	MP1A	Z	0	0	0	%100
49	MP2A	X	3.798	3.798	0	%100
50	MP2A	Z	0	0	0	%100
51	MP3A	X	3.431	3.431	0	%100
52	MP3A	Z	0	0	0	%100
53	MP4A	X	3.431	3.431	0	%100
54	MP4A	Z	0	0	0	%100
55	MP1C	X	3.431	3.431	0	%100
56	MP1C	Z	0	0	0	%100
57	MP2C	X	3.798	3.798	0	%100
58	MP2C	Z	0	0	0	%100
59	MP3C	X	3.431	3.431	0	%100
60	MP3C	Z	0	0	0	%100
61	MP4C	X	3.431	3.431	0	%100
62	MP4C	Z	0	0	0	%100
63	MP1B	X	3.431	3.431	0	%100
64	MP1B	Z	0	0	0	%100
65	MP2B	X	3.798	3.798	0	%100
66	MP2B	Z	0	0	0	%100
67	MP3B	X	3.431	3.431	0	%100
68	MP3B	Z	0	0	0	%100
69	MP4B	X	3.431	3.431	0	%100
70	MP4B	Z	0	0	0	%100
71	M50	X	1.055	1.055	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	1.055	1.055	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	5.681	5.681	0	%100
2	M12	Z	3.28	3.28	0	%100
3	M13	X	5.681	5.681	0	%100
4	M13	Z	3.28	3.28	0	%100
5	M7	X	5.619	5.619	0	%100
6	M7	Z	3.244	3.244	0	%100
7	M8	X	1.405	1.405	0	%100
8	M8	Z	.811	.811	0	%100
9	M9	X	1.405	1.405	0	%100
10	M9	Z	.811	.811	0	%100
11	M9A	X	1.414	1.414	0	%100
12	M9A	Z	.816	.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M10A	X	1.42	1.42	0	%100
14	M10A	Z	.82	.82	0	%100
15	M11A	X	1.427	1.427	0	%100
16	M11A	Z	.824	.824	0	%100
17	M12B	X	1.414	1.414	0	%100
18	M12B	Z	.816	.816	0	%100
19	M10	X	4.964	4.964	0	%100
20	M10	Z	2.866	2.866	0	%100
21	M11	X	1.241	1.241	0	%100
22	M11	Z	.717	.717	0	%100
23	M12A	X	1.241	1.241	0	%100
24	M12A	Z	.717	.717	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	3.581	3.581	0	%100
30	M17	Z	2.067	2.067	0	%100
31	M18	X	3.581	3.581	0	%100
32	M18	Z	2.067	2.067	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	1.218	1.218	0	%100
42	M23	Z	.703	.703	0	%100
43	M24	X	.305	.305	0	%100
44	M24	Z	.176	.176	0	%100
45	M25	X	.305	.305	0	%100
46	M25	Z	.176	.176	0	%100
47	MP1A	X	2.972	2.972	0	%100
48	MP1A	Z	1.716	1.716	0	%100
49	MP2A	X	3.289	3.289	0	%100
50	MP2A	Z	1.899	1.899	0	%100
51	MP3A	X	2.972	2.972	0	%100
52	MP3A	Z	1.716	1.716	0	%100
53	MP4A	X	2.972	2.972	0	%100
54	MP4A	Z	1.716	1.716	0	%100
55	MP1C	X	2.972	2.972	0	%100
56	MP1C	Z	1.716	1.716	0	%100
57	MP2C	X	3.289	3.289	0	%100
58	MP2C	Z	1.899	1.899	0	%100
59	MP3C	X	2.972	2.972	0	%100
60	MP3C	Z	1.716	1.716	0	%100
61	MP4C	X	2.972	2.972	0	%100
62	MP4C	Z	1.716	1.716	0	%100
63	MP1B	X	2.972	2.972	0	%100
64	MP1B	Z	1.716	1.716	0	%100
65	MP2B	X	3.289	3.289	0	%100
66	MP2B	Z	1.899	1.899	0	%100
67	MP3B	X	2.972	2.972	0	%100
68	MP3B	Z	1.716	1.716	0	%100
69	MP4B	X	2.972	2.972	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
70	MP4B	Z	1.716	1.716	0	%100
71	M50	X	1.218	1.218	0	%100
72	M50	Z	.703	.703	0	%100
73	M51	X	.305	.305	0	%100
74	M51	Z	.176	.176	0	%100
75	M52	X	.305	.305	0	%100
76	M52	Z	.176	.176	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	2.46	2.46	0	%100
2	M12	Z	4.261	4.261	0	%100
3	M13	X	2.46	2.46	0	%100
4	M13	Z	4.261	4.261	0	%100
5	M7	X	2.433	2.433	0	%100
6	M7	Z	4.214	4.214	0	%100
7	M8	X	2.433	2.433	0	%100
8	M8	Z	4.214	4.214	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	2.457	2.457	0	%100
12	M9A	Z	4.255	4.255	0	%100
13	M10A	X	2.46	2.46	0	%100
14	M10A	Z	4.261	4.261	0	%100
15	M11A	X	6e-6	6e-6	0	%100
16	M11A	Z	1e-5	1e-5	0	%100
17	M12B	X	6e-6	6e-6	0	%100
18	M12B	Z	1e-5	1e-5	0	%100
19	M10	X	2.15	2.15	0	%100
20	M10	Z	3.723	3.723	0	%100
21	M11	X	2.15	2.15	0	%100
22	M11	Z	3.723	3.723	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	.589	.589	0	%100
26	M13A	Z	1.02	1.02	0	%100
27	M14	X	.589	.589	0	%100
28	M14	Z	1.02	1.02	0	%100
29	M17	X	2.067	2.067	0	%100
30	M17	Z	3.581	3.581	0	%100
31	M18	X	2.067	2.067	0	%100
32	M18	Z	3.581	3.581	0	%100
33	M19	X	.181	.181	0	%100
34	M19	Z	.314	.314	0	%100
35	M20	X	.181	.181	0	%100
36	M20	Z	.314	.314	0	%100
37	M21	X	.181	.181	0	%100
38	M21	Z	.314	.314	0	%100
39	M22	X	.181	.181	0	%100
40	M22	Z	.314	.314	0	%100
41	M23	X	.527	.527	0	%100
42	M23	Z	.914	.914	0	%100
43	M24	X	.527	.527	0	%100
44	M24	Z	.914	.914	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	MP1A	X	1.716	1.716	0	%100
48	MP1A	Z	2.972	2.972	0	%100
49	MP2A	X	1.899	1.899	0	%100
50	MP2A	Z	3.289	3.289	0	%100
51	MP3A	X	1.716	1.716	0	%100
52	MP3A	Z	2.972	2.972	0	%100
53	MP4A	X	1.716	1.716	0	%100
54	MP4A	Z	2.972	2.972	0	%100
55	MP1C	X	1.716	1.716	0	%100
56	MP1C	Z	2.972	2.972	0	%100
57	MP2C	X	1.899	1.899	0	%100
58	MP2C	Z	3.289	3.289	0	%100
59	MP3C	X	1.716	1.716	0	%100
60	MP3C	Z	2.972	2.972	0	%100
61	MP4C	X	1.716	1.716	0	%100
62	MP4C	Z	2.972	2.972	0	%100
63	MP1B	X	1.716	1.716	0	%100
64	MP1B	Z	2.972	2.972	0	%100
65	MP2B	X	1.899	1.899	0	%100
66	MP2B	Z	3.289	3.289	0	%100
67	MP3B	X	1.716	1.716	0	%100
68	MP3B	Z	2.972	2.972	0	%100
69	MP4B	X	1.716	1.716	0	%100
70	MP4B	Z	2.972	2.972	0	%100
71	M50	X	.527	.527	0	%100
72	M50	Z	.914	.914	0	%100
73	M51	X	.527	.527	0	%100
74	M51	Z	.914	.914	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	1.64	1.64	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	1.64	1.64	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	1.622	1.622	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	6.488	6.488	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	1.622	1.622	0	%100
11	M9A	X	0	0	0	%100
12	M9A	Z	6.561	6.561	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	6.56	6.56	0	%100
15	M11A	X	0	0	0	%100
16	M11A	Z	1.633	1.633	0	%100
17	M12B	X	0	0	0	%100
18	M12B	Z	1.648	1.648	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	1.433	1.433	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	5.732	5.732	0	%100
23	M12A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M12A	Z	1.433	1.433	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	3.535	3.535	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	3.535	3.535	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	4.135	4.135	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	4.135	4.135	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	1.088	1.088	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	1.088	1.088	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	1.088	1.088	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	1.088	1.088	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	.352	.352	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	1.406	1.406	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	.352	.352	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	3.431	3.431	0	%100
49	MP2A	X	0	0	0	%100
50	MP2A	Z	3.798	3.798	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	3.431	3.431	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	3.431	3.431	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	3.431	3.431	0	%100
57	MP2C	X	0	0	0	%100
58	MP2C	Z	3.798	3.798	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	3.431	3.431	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	3.431	3.431	0	%100
63	MP1B	X	0	0	0	%100
64	MP1B	Z	3.431	3.431	0	%100
65	MP2B	X	0	0	0	%100
66	MP2B	Z	3.798	3.798	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	3.431	3.431	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	3.431	3.431	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	.352	.352	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	1.406	1.406	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	.352	.352	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	-2.433	-2.433	0	%100
8	M8	Z	4.214	4.214	0	%100
9	M9	X	-2.433	-2.433	0	%100
10	M9	Z	4.214	4.214	0	%100
11	M9A	X	-2.464	-2.464	0	%100
12	M9A	Z	4.268	4.268	0	%100
13	M10A	X	-2.46	-2.46	0	%100
14	M10A	Z	4.261	4.261	0	%100
15	M11A	X	-2.457	-2.457	0	%100
16	M11A	Z	4.255	4.255	0	%100
17	M12B	X	-2.464	-2.464	0	%100
18	M12B	Z	4.268	4.268	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-2.15	-2.15	0	%100
22	M11	Z	3.723	3.723	0	%100
23	M12A	X	-2.15	-2.15	0	%100
24	M12A	Z	3.723	3.723	0	%100
25	M13A	X	-2.357	-2.357	0	%100
26	M13A	Z	4.082	4.082	0	%100
27	M14	X	-2.357	-2.357	0	%100
28	M14	Z	4.082	4.082	0	%100
29	M17	X	-2.067	-2.067	0	%100
30	M17	Z	3.581	3.581	0	%100
31	M18	X	-2.067	-2.067	0	%100
32	M18	Z	3.581	3.581	0	%100
33	M19	X	-.725	-.725	0	%100
34	M19	Z	1.256	1.256	0	%100
35	M20	X	-.725	-.725	0	%100
36	M20	Z	1.256	1.256	0	%100
37	M21	X	-.725	-.725	0	%100
38	M21	Z	1.256	1.256	0	%100
39	M22	X	-.725	-.725	0	%100
40	M22	Z	1.256	1.256	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	-.527	-.527	0	%100
44	M24	Z	.914	.914	0	%100
45	M25	X	-.527	-.527	0	%100
46	M25	Z	.914	.914	0	%100
47	MP1A	X	-1.716	-1.716	0	%100
48	MP1A	Z	2.972	2.972	0	%100
49	MP2A	X	-1.899	-1.899	0	%100
50	MP2A	Z	3.289	3.289	0	%100
51	MP3A	X	-1.716	-1.716	0	%100
52	MP3A	Z	2.972	2.972	0	%100
53	MP4A	X	-1.716	-1.716	0	%100
54	MP4A	Z	2.972	2.972	0	%100
55	MP1C	X	-1.716	-1.716	0	%100
56	MP1C	Z	2.972	2.972	0	%100
57	MP2C	X	-1.899	-1.899	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP2C	Z	3.289	3.289	0	%100
59	MP3C	X	-1.716	-1.716	0	%100
60	MP3C	Z	2.972	2.972	0	%100
61	MP4C	X	-1.716	-1.716	0	%100
62	MP4C	Z	2.972	2.972	0	%100
63	MP1B	X	-1.716	-1.716	0	%100
64	MP1B	Z	2.972	2.972	0	%100
65	MP2B	X	-1.899	-1.899	0	%100
66	MP2B	Z	3.289	3.289	0	%100
67	MP3B	X	-1.716	-1.716	0	%100
68	MP3B	Z	2.972	2.972	0	%100
69	MP4B	X	-1.716	-1.716	0	%100
70	MP4B	Z	2.972	2.972	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-.527	-.527	0	%100
74	M51	Z	.914	.914	0	%100
75	M52	X	-.527	-.527	0	%100
76	M52	Z	.914	.914	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-1.42	-1.42	0	%100
2	M12	Z	.82	.82	0	%100
3	M13	X	-1.42	-1.42	0	%100
4	M13	Z	.82	.82	0	%100
5	M7	X	-1.405	-1.405	0	%100
6	M7	Z	.811	.811	0	%100
7	M8	X	-1.405	-1.405	0	%100
8	M8	Z	.811	.811	0	%100
9	M9	X	-5.619	-5.619	0	%100
10	M9	Z	3.244	3.244	0	%100
11	M9A	X	-1.427	-1.427	0	%100
12	M9A	Z	.824	.824	0	%100
13	M10A	X	-1.42	-1.42	0	%100
14	M10A	Z	.82	.82	0	%100
15	M11A	X	-5.682	-5.682	0	%100
16	M11A	Z	3.28	3.28	0	%100
17	M12B	X	-5.682	-5.682	0	%100
18	M12B	Z	3.28	3.28	0	%100
19	M10	X	-1.241	-1.241	0	%100
20	M10	Z	.717	.717	0	%100
21	M11	X	-1.241	-1.241	0	%100
22	M11	Z	.717	.717	0	%100
23	M12A	X	-4.964	-4.964	0	%100
24	M12A	Z	2.866	2.866	0	%100
25	M13A	X	-3.061	-3.061	0	%100
26	M13A	Z	1.767	1.767	0	%100
27	M14	X	-3.061	-3.061	0	%100
28	M14	Z	1.767	1.767	0	%100
29	M17	X	-3.581	-3.581	0	%100
30	M17	Z	2.067	2.067	0	%100
31	M18	X	-3.581	-3.581	0	%100
32	M18	Z	2.067	2.067	0	%100
33	M19	X	-.942	-.942	0	%100
34	M19	Z	.544	.544	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	M20	X	-.942	-.942	0	%100
36	M20	Z	.544	.544	0	%100
37	M21	X	-.942	-.942	0	%100
38	M21	Z	.544	.544	0	%100
39	M22	X	-.942	-.942	0	%100
40	M22	Z	.544	.544	0	%100
41	M23	X	-.305	-.305	0	%100
42	M23	Z	.176	.176	0	%100
43	M24	X	-.305	-.305	0	%100
44	M24	Z	.176	.176	0	%100
45	M25	X	-1.218	-1.218	0	%100
46	M25	Z	.703	.703	0	%100
47	MP1A	X	-2.972	-2.972	0	%100
48	MP1A	Z	1.716	1.716	0	%100
49	MP2A	X	-3.289	-3.289	0	%100
50	MP2A	Z	1.899	1.899	0	%100
51	MP3A	X	-2.972	-2.972	0	%100
52	MP3A	Z	1.716	1.716	0	%100
53	MP4A	X	-2.972	-2.972	0	%100
54	MP4A	Z	1.716	1.716	0	%100
55	MP1C	X	-2.972	-2.972	0	%100
56	MP1C	Z	1.716	1.716	0	%100
57	MP2C	X	-3.289	-3.289	0	%100
58	MP2C	Z	1.899	1.899	0	%100
59	MP3C	X	-2.972	-2.972	0	%100
60	MP3C	Z	1.716	1.716	0	%100
61	MP4C	X	-2.972	-2.972	0	%100
62	MP4C	Z	1.716	1.716	0	%100
63	MP1B	X	-2.972	-2.972	0	%100
64	MP1B	Z	1.716	1.716	0	%100
65	MP2B	X	-3.289	-3.289	0	%100
66	MP2B	Z	1.899	1.899	0	%100
67	MP3B	X	-2.972	-2.972	0	%100
68	MP3B	Z	1.716	1.716	0	%100
69	MP4B	X	-2.972	-2.972	0	%100
70	MP4B	Z	1.716	1.716	0	%100
71	M50	X	-.305	-.305	0	%100
72	M50	Z	.176	.176	0	%100
73	M51	X	-.305	-.305	0	%100
74	M51	Z	.176	.176	0	%100
75	M52	X	-1.218	-1.218	0	%100
76	M52	Z	.703	.703	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-4.92	-4.92	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	-4.92	-4.92	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	-4.866	-4.866	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	-4.866	-4.866	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	-1.1e-5	-1.1e-5	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M9A	Z	0	0	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	0	0	0	%100
15	M11A	X	-4.928	-4.928	0	%100
16	M11A	Z	0	0	0	%100
17	M12B	X	-4.913	-4.913	0	%100
18	M12B	Z	0	0	0	%100
19	M10	X	-4.299	-4.299	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12A	X	-4.299	-4.299	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	-1.178	-1.178	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	-1.178	-1.178	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	-4.135	-4.135	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	-4.135	-4.135	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	-.363	-.363	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	-.363	-.363	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	-.363	-.363	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	-.363	-.363	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-1.055	-1.055	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	-1.055	-1.055	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	-3.431	-3.431	0	%100
48	MP1A	Z	0	0	0	%100
49	MP2A	X	-3.798	-3.798	0	%100
50	MP2A	Z	0	0	0	%100
51	MP3A	X	-3.431	-3.431	0	%100
52	MP3A	Z	0	0	0	%100
53	MP4A	X	-3.431	-3.431	0	%100
54	MP4A	Z	0	0	0	%100
55	MP1C	X	-3.431	-3.431	0	%100
56	MP1C	Z	0	0	0	%100
57	MP2C	X	-3.798	-3.798	0	%100
58	MP2C	Z	0	0	0	%100
59	MP3C	X	-3.431	-3.431	0	%100
60	MP3C	Z	0	0	0	%100
61	MP4C	X	-3.431	-3.431	0	%100
62	MP4C	Z	0	0	0	%100
63	MP1B	X	-3.431	-3.431	0	%100
64	MP1B	Z	0	0	0	%100
65	MP2B	X	-3.798	-3.798	0	%100
66	MP2B	Z	0	0	0	%100
67	MP3B	X	-3.431	-3.431	0	%100
68	MP3B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	MP4B	X	-3.431	-3.431	0	%100
70	MP4B	Z	0	0	0	%100
71	M50	X	-1.055	-1.055	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-1.055	-1.055	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-5.681	-5.681	0	%100
2	M12	Z	-3.28	-3.28	0	%100
3	M13	X	-5.681	-5.681	0	%100
4	M13	Z	-3.28	-3.28	0	%100
5	M7	X	-5.619	-5.619	0	%100
6	M7	Z	-3.244	-3.244	0	%100
7	M8	X	-1.405	-1.405	0	%100
8	M8	Z	-.811	-.811	0	%100
9	M9	X	-1.405	-1.405	0	%100
10	M9	Z	-.811	-.811	0	%100
11	M9A	X	-1.414	-1.414	0	%100
12	M9A	Z	-.816	-.816	0	%100
13	M10A	X	-1.42	-1.42	0	%100
14	M10A	Z	-.82	-.82	0	%100
15	M11A	X	-1.427	-1.427	0	%100
16	M11A	Z	-.824	-.824	0	%100
17	M12B	X	-1.414	-1.414	0	%100
18	M12B	Z	-.816	-.816	0	%100
19	M10	X	-4.964	-4.964	0	%100
20	M10	Z	-2.866	-2.866	0	%100
21	M11	X	-1.241	-1.241	0	%100
22	M11	Z	-.717	-.717	0	%100
23	M12A	X	-1.241	-1.241	0	%100
24	M12A	Z	-.717	-.717	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	-3.581	-3.581	0	%100
30	M17	Z	-2.067	-2.067	0	%100
31	M18	X	-3.581	-3.581	0	%100
32	M18	Z	-2.067	-2.067	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-1.218	-1.218	0	%100
42	M23	Z	-.703	-.703	0	%100
43	M24	X	-.305	-.305	0	%100
44	M24	Z	-.176	-.176	0	%100
45	M25	X	-.305	-.305	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M25	Z	-.176	-.176	0	%100
47	MP1A	X	-2.972	-2.972	0	%100
48	MP1A	Z	-1.716	-1.716	0	%100
49	MP2A	X	-3.289	-3.289	0	%100
50	MP2A	Z	-1.899	-1.899	0	%100
51	MP3A	X	-2.972	-2.972	0	%100
52	MP3A	Z	-1.716	-1.716	0	%100
53	MP4A	X	-2.972	-2.972	0	%100
54	MP4A	Z	-1.716	-1.716	0	%100
55	MP1C	X	-2.972	-2.972	0	%100
56	MP1C	Z	-1.716	-1.716	0	%100
57	MP2C	X	-3.289	-3.289	0	%100
58	MP2C	Z	-1.899	-1.899	0	%100
59	MP3C	X	-2.972	-2.972	0	%100
60	MP3C	Z	-1.716	-1.716	0	%100
61	MP4C	X	-2.972	-2.972	0	%100
62	MP4C	Z	-1.716	-1.716	0	%100
63	MP1B	X	-2.972	-2.972	0	%100
64	MP1B	Z	-1.716	-1.716	0	%100
65	MP2B	X	-3.289	-3.289	0	%100
66	MP2B	Z	-1.899	-1.899	0	%100
67	MP3B	X	-2.972	-2.972	0	%100
68	MP3B	Z	-1.716	-1.716	0	%100
69	MP4B	X	-2.972	-2.972	0	%100
70	MP4B	Z	-1.716	-1.716	0	%100
71	M50	X	-1.218	-1.218	0	%100
72	M50	Z	-.703	-.703	0	%100
73	M51	X	-.305	-.305	0	%100
74	M51	Z	-.176	-.176	0	%100
75	M52	X	-.305	-.305	0	%100
76	M52	Z	-.176	-.176	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-2.46	-2.46	0	%100
2	M12	Z	-4.261	-4.261	0	%100
3	M13	X	-2.46	-2.46	0	%100
4	M13	Z	-4.261	-4.261	0	%100
5	M7	X	-2.433	-2.433	0	%100
6	M7	Z	-4.214	-4.214	0	%100
7	M8	X	-2.433	-2.433	0	%100
8	M8	Z	-4.214	-4.214	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	-2.457	-2.457	0	%100
12	M9A	Z	-4.255	-4.255	0	%100
13	M10A	X	-2.46	-2.46	0	%100
14	M10A	Z	-4.261	-4.261	0	%100
15	M11A	X	-6e-6	-6e-6	0	%100
16	M11A	Z	-1e-5	-1e-5	0	%100
17	M12B	X	-6e-6	-6e-6	0	%100
18	M12B	Z	-1e-5	-1e-5	0	%100
19	M10	X	-2.15	-2.15	0	%100
20	M10	Z	-3.723	-3.723	0	%100
21	M11	X	-2.15	-2.15	0	%100
22	M11	Z	-3.723	-3.723	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M12A	X	0	0	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	-.589	-.589	0	%100
26	M13A	Z	-1.02	-1.02	0	%100
27	M14	X	-.589	-.589	0	%100
28	M14	Z	-1.02	-1.02	0	%100
29	M17	X	-2.067	-2.067	0	%100
30	M17	Z	-3.581	-3.581	0	%100
31	M18	X	-2.067	-2.067	0	%100
32	M18	Z	-3.581	-3.581	0	%100
33	M19	X	-.181	-.181	0	%100
34	M19	Z	-.314	-.314	0	%100
35	M20	X	-.181	-.181	0	%100
36	M20	Z	-.314	-.314	0	%100
37	M21	X	-.181	-.181	0	%100
38	M21	Z	-.314	-.314	0	%100
39	M22	X	-.181	-.181	0	%100
40	M22	Z	-.314	-.314	0	%100
41	M23	X	-.527	-.527	0	%100
42	M23	Z	-.914	-.914	0	%100
43	M24	X	-.527	-.527	0	%100
44	M24	Z	-.914	-.914	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	-1.716	-1.716	0	%100
48	MP1A	Z	-2.972	-2.972	0	%100
49	MP2A	X	-1.899	-1.899	0	%100
50	MP2A	Z	-3.289	-3.289	0	%100
51	MP3A	X	-1.716	-1.716	0	%100
52	MP3A	Z	-2.972	-2.972	0	%100
53	MP4A	X	-1.716	-1.716	0	%100
54	MP4A	Z	-2.972	-2.972	0	%100
55	MP1C	X	-1.716	-1.716	0	%100
56	MP1C	Z	-2.972	-2.972	0	%100
57	MP2C	X	-1.899	-1.899	0	%100
58	MP2C	Z	-3.289	-3.289	0	%100
59	MP3C	X	-1.716	-1.716	0	%100
60	MP3C	Z	-2.972	-2.972	0	%100
61	MP4C	X	-1.716	-1.716	0	%100
62	MP4C	Z	-2.972	-2.972	0	%100
63	MP1B	X	-1.716	-1.716	0	%100
64	MP1B	Z	-2.972	-2.972	0	%100
65	MP2B	X	-1.899	-1.899	0	%100
66	MP2B	Z	-3.289	-3.289	0	%100
67	MP3B	X	-1.716	-1.716	0	%100
68	MP3B	Z	-2.972	-2.972	0	%100
69	MP4B	X	-1.716	-1.716	0	%100
70	MP4B	Z	-2.972	-2.972	0	%100
71	M50	X	-.527	-.527	0	%100
72	M50	Z	-.914	-.914	0	%100
73	M51	X	-.527	-.527	0	%100
74	M51	Z	-.914	-.914	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	-.438	-.438	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	-.438	-.438	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-.432	-.432	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	-1.728	-1.728	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-.432	-.432	0	%100
11	M9A	X	0	0	0	%100
12	M9A	Z	-1.754	-1.754	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	-1.754	-1.754	0	%100
15	M11A	X	0	0	0	%100
16	M11A	Z	-.436	-.436	0	%100
17	M12B	X	0	0	0	%100
18	M12B	Z	-.44	-.44	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-.389	-.389	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-1.556	-1.556	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	-.389	-.389	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	-.991	-.991	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	-.991	-.991	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-.88	-.88	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	-.88	-.88	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	-.099	-.099	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	-.099	-.099	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	-.099	-.099	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	-.099	-.099	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	-.033	-.033	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	-.132	-.132	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	-.033	-.033	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	-.627	-.627	0	%100
49	MP2A	X	0	0	0	%100
50	MP2A	Z	-.759	-.759	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	-.627	-.627	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	-.627	-.627	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-.627	-.627	0	%100
57	MP2C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP2C	Z	-.759	-.759	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	-.627	-.627	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	-.627	-.627	0	%100
63	MP1B	X	0	0	0	%100
64	MP1B	Z	-.627	-.627	0	%100
65	MP2B	X	0	0	0	%100
66	MP2B	Z	-.759	-.759	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	-.627	-.627	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	-.627	-.627	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-.033	-.033	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-.132	-.132	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-.033	-.033	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	.648	.648	0	%100
8	M8	Z	-1.122	-1.122	0	%100
9	M9	X	.648	.648	0	%100
10	M9	Z	-1.122	-1.122	0	%100
11	M9A	X	.659	.659	0	%100
12	M9A	Z	-1.141	-1.141	0	%100
13	M10A	X	.658	.658	0	%100
14	M10A	Z	-1.139	-1.139	0	%100
15	M11A	X	.657	.657	0	%100
16	M11A	Z	-1.137	-1.137	0	%100
17	M12B	X	.659	.659	0	%100
18	M12B	Z	-1.141	-1.141	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	.583	.583	0	%100
22	M11	Z	-1.011	-1.011	0	%100
23	M12A	X	.583	.583	0	%100
24	M12A	Z	-1.011	-1.011	0	%100
25	M13A	X	.66	.66	0	%100
26	M13A	Z	-1.144	-1.144	0	%100
27	M14	X	.66	.66	0	%100
28	M14	Z	-1.144	-1.144	0	%100
29	M17	X	.44	.44	0	%100
30	M17	Z	-.763	-.763	0	%100
31	M18	X	.44	.44	0	%100
32	M18	Z	-.763	-.763	0	%100
33	M19	X	.066	.066	0	%100
34	M19	Z	-.114	-.114	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	M20	X	.066	.066	0	%100
36	M20	Z	-.114	-.114	0	%100
37	M21	X	.066	.066	0	%100
38	M21	Z	-.114	-.114	0	%100
39	M22	X	.066	.066	0	%100
40	M22	Z	-.114	-.114	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	.05	.05	0	%100
44	M24	Z	-.086	-.086	0	%100
45	M25	X	.05	.05	0	%100
46	M25	Z	-.086	-.086	0	%100
47	MP1A	X	.314	.314	0	%100
48	MP1A	Z	-.543	-.543	0	%100
49	MP2A	X	.38	.38	0	%100
50	MP2A	Z	-.658	-.658	0	%100
51	MP3A	X	.314	.314	0	%100
52	MP3A	Z	-.543	-.543	0	%100
53	MP4A	X	.314	.314	0	%100
54	MP4A	Z	-.543	-.543	0	%100
55	MP1C	X	.314	.314	0	%100
56	MP1C	Z	-.543	-.543	0	%100
57	MP2C	X	.38	.38	0	%100
58	MP2C	Z	-.658	-.658	0	%100
59	MP3C	X	.314	.314	0	%100
60	MP3C	Z	-.543	-.543	0	%100
61	MP4C	X	.314	.314	0	%100
62	MP4C	Z	-.543	-.543	0	%100
63	MP1B	X	.314	.314	0	%100
64	MP1B	Z	-.543	-.543	0	%100
65	MP2B	X	.38	.38	0	%100
66	MP2B	Z	-.658	-.658	0	%100
67	MP3B	X	.314	.314	0	%100
68	MP3B	Z	-.543	-.543	0	%100
69	MP4B	X	.314	.314	0	%100
70	MP4B	Z	-.543	-.543	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	.05	.05	0	%100
74	M51	Z	-.086	-.086	0	%100
75	M52	X	.05	.05	0	%100
76	M52	Z	-.086	-.086	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	.38	.38	0	%100
2	M12	Z	-.219	-.219	0	%100
3	M13	X	.38	.38	0	%100
4	M13	Z	-.219	-.219	0	%100
5	M7	X	.374	.374	0	%100
6	M7	Z	-.216	-.216	0	%100
7	M8	X	.374	.374	0	%100
8	M8	Z	-.216	-.216	0	%100
9	M9	X	1.496	1.496	0	%100
10	M9	Z	-.864	-.864	0	%100
11	M9A	X	.381	.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M9A	Z	-.22	-.22	0	%100
13	M10A	X	.38	.38	0	%100
14	M10A	Z	-.219	-.219	0	%100
15	M11A	X	1.519	1.519	0	%100
16	M11A	Z	-.877	-.877	0	%100
17	M12B	X	1.519	1.519	0	%100
18	M12B	Z	-.877	-.877	0	%100
19	M10	X	.337	.337	0	%100
20	M10	Z	-.194	-.194	0	%100
21	M11	X	.337	.337	0	%100
22	M11	Z	-.194	-.194	0	%100
23	M12A	X	1.347	1.347	0	%100
24	M12A	Z	-.778	-.778	0	%100
25	M13A	X	.858	.858	0	%100
26	M13A	Z	-.495	-.495	0	%100
27	M14	X	.858	.858	0	%100
28	M14	Z	-.495	-.495	0	%100
29	M17	X	.763	.763	0	%100
30	M17	Z	-.44	-.44	0	%100
31	M18	X	.763	.763	0	%100
32	M18	Z	-.44	-.44	0	%100
33	M19	X	.086	.086	0	%100
34	M19	Z	-.05	-.05	0	%100
35	M20	X	.086	.086	0	%100
36	M20	Z	-.05	-.05	0	%100
37	M21	X	.086	.086	0	%100
38	M21	Z	-.05	-.05	0	%100
39	M22	X	.086	.086	0	%100
40	M22	Z	-.05	-.05	0	%100
41	M23	X	.029	.029	0	%100
42	M23	Z	-.017	-.017	0	%100
43	M24	X	.029	.029	0	%100
44	M24	Z	-.017	-.017	0	%100
45	M25	X	.114	.114	0	%100
46	M25	Z	-.066	-.066	0	%100
47	MP1A	X	.543	.543	0	%100
48	MP1A	Z	-.314	-.314	0	%100
49	MP2A	X	.658	.658	0	%100
50	MP2A	Z	-.38	-.38	0	%100
51	MP3A	X	.543	.543	0	%100
52	MP3A	Z	-.314	-.314	0	%100
53	MP4A	X	.543	.543	0	%100
54	MP4A	Z	-.314	-.314	0	%100
55	MP1C	X	.543	.543	0	%100
56	MP1C	Z	-.314	-.314	0	%100
57	MP2C	X	.658	.658	0	%100
58	MP2C	Z	-.38	-.38	0	%100
59	MP3C	X	.543	.543	0	%100
60	MP3C	Z	-.314	-.314	0	%100
61	MP4C	X	.543	.543	0	%100
62	MP4C	Z	-.314	-.314	0	%100
63	MP1B	X	.543	.543	0	%100
64	MP1B	Z	-.314	-.314	0	%100
65	MP2B	X	.658	.658	0	%100
66	MP2B	Z	-.38	-.38	0	%100
67	MP3B	X	.543	.543	0	%100
68	MP3B	Z	-.314	-.314	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	MP4B	X	.543	.543	0	%100
70	MP4B	Z	-.314	-.314	0	%100
71	M50	X	.029	.029	0	%100
72	M50	Z	-.017	-.017	0	%100
73	M51	X	.029	.029	0	%100
74	M51	Z	-.017	-.017	0	%100
75	M52	X	.114	.114	0	%100
76	M52	Z	-.066	-.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	1.315	1.315	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	1.315	1.315	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	1.296	1.296	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	1.296	1.296	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	3e-6	3e-6	0	%100
12	M9A	Z	0	0	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	0	0	0	%100
15	M11A	X	1.317	1.317	0	%100
16	M11A	Z	0	0	0	%100
17	M12B	X	1.313	1.313	0	%100
18	M12B	Z	0	0	0	%100
19	M10	X	1.167	1.167	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12A	X	1.167	1.167	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	.33	.33	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	.33	.33	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	.88	.88	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	.88	.88	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	.033	.033	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	.033	.033	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	.033	.033	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	.033	.033	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	.099	.099	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	.099	.099	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M25	Z	0	0	0	%100
47	MP1A	X	.627	.627	0	%100
48	MP1A	Z	0	0	0	%100
49	MP2A	X	.759	.759	0	%100
50	MP2A	Z	0	0	0	%100
51	MP3A	X	.627	.627	0	%100
52	MP3A	Z	0	0	0	%100
53	MP4A	X	.627	.627	0	%100
54	MP4A	Z	0	0	0	%100
55	MP1C	X	.627	.627	0	%100
56	MP1C	Z	0	0	0	%100
57	MP2C	X	.759	.759	0	%100
58	MP2C	Z	0	0	0	%100
59	MP3C	X	.627	.627	0	%100
60	MP3C	Z	0	0	0	%100
61	MP4C	X	.627	.627	0	%100
62	MP4C	Z	0	0	0	%100
63	MP1B	X	.627	.627	0	%100
64	MP1B	Z	0	0	0	%100
65	MP2B	X	.759	.759	0	%100
66	MP2B	Z	0	0	0	%100
67	MP3B	X	.627	.627	0	%100
68	MP3B	Z	0	0	0	%100
69	MP4B	X	.627	.627	0	%100
70	MP4B	Z	0	0	0	%100
71	M50	X	.099	.099	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	.099	.099	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	1.519	1.519	0	%100
2	M12	Z	.877	.877	0	%100
3	M13	X	1.519	1.519	0	%100
4	M13	Z	.877	.877	0	%100
5	M7	X	1.496	1.496	0	%100
6	M7	Z	.864	.864	0	%100
7	M8	X	.374	.374	0	%100
8	M8	Z	.216	.216	0	%100
9	M9	X	.374	.374	0	%100
10	M9	Z	.216	.216	0	%100
11	M9A	X	.378	.378	0	%100
12	M9A	Z	.218	.218	0	%100
13	M10A	X	.38	.38	0	%100
14	M10A	Z	.219	.219	0	%100
15	M11A	X	.381	.381	0	%100
16	M11A	Z	.22	.22	0	%100
17	M12B	X	.378	.378	0	%100
18	M12B	Z	.218	.218	0	%100
19	M10	X	1.347	1.347	0	%100
20	M10	Z	.778	.778	0	%100
21	M11	X	.337	.337	0	%100
22	M11	Z	.194	.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M12A	X	.337	.337	0	%100
24	M12A	Z	.194	.194	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	.763	.763	0	%100
30	M17	Z	.44	.44	0	%100
31	M18	X	.763	.763	0	%100
32	M18	Z	.44	.44	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	.114	.114	0	%100
42	M23	Z	.066	.066	0	%100
43	M24	X	.029	.029	0	%100
44	M24	Z	.017	.017	0	%100
45	M25	X	.029	.029	0	%100
46	M25	Z	.017	.017	0	%100
47	MP1A	X	.543	.543	0	%100
48	MP1A	Z	.314	.314	0	%100
49	MP2A	X	.658	.658	0	%100
50	MP2A	Z	.38	.38	0	%100
51	MP3A	X	.543	.543	0	%100
52	MP3A	Z	.314	.314	0	%100
53	MP4A	X	.543	.543	0	%100
54	MP4A	Z	.314	.314	0	%100
55	MP1C	X	.543	.543	0	%100
56	MP1C	Z	.314	.314	0	%100
57	MP2C	X	.658	.658	0	%100
58	MP2C	Z	.38	.38	0	%100
59	MP3C	X	.543	.543	0	%100
60	MP3C	Z	.314	.314	0	%100
61	MP4C	X	.543	.543	0	%100
62	MP4C	Z	.314	.314	0	%100
63	MP1B	X	.543	.543	0	%100
64	MP1B	Z	.314	.314	0	%100
65	MP2B	X	.658	.658	0	%100
66	MP2B	Z	.38	.38	0	%100
67	MP3B	X	.543	.543	0	%100
68	MP3B	Z	.314	.314	0	%100
69	MP4B	X	.543	.543	0	%100
70	MP4B	Z	.314	.314	0	%100
71	M50	X	.114	.114	0	%100
72	M50	Z	.066	.066	0	%100
73	M51	X	.029	.029	0	%100
74	M51	Z	.017	.017	0	%100
75	M52	X	.029	.029	0	%100
76	M52	Z	.017	.017	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	.658	.658	0	%100
2	M12	Z	1.139	1.139	0	%100
3	M13	X	.658	.658	0	%100
4	M13	Z	1.139	1.139	0	%100
5	M7	X	.648	.648	0	%100
6	M7	Z	1.122	1.122	0	%100
7	M8	X	.648	.648	0	%100
8	M8	Z	1.122	1.122	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	.657	.657	0	%100
12	M9A	Z	1.137	1.137	0	%100
13	M10A	X	.658	.658	0	%100
14	M10A	Z	1.139	1.139	0	%100
15	M11A	X	2e-6	2e-6	0	%100
16	M11A	Z	3e-6	3e-6	0	%100
17	M12B	X	2e-6	2e-6	0	%100
18	M12B	Z	3e-6	3e-6	0	%100
19	M10	X	.583	.583	0	%100
20	M10	Z	1.011	1.011	0	%100
21	M11	X	.583	.583	0	%100
22	M11	Z	1.011	1.011	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	.165	.165	0	%100
26	M13A	Z	.286	.286	0	%100
27	M14	X	.165	.165	0	%100
28	M14	Z	.286	.286	0	%100
29	M17	X	.44	.44	0	%100
30	M17	Z	.763	.763	0	%100
31	M18	X	.44	.44	0	%100
32	M18	Z	.763	.763	0	%100
33	M19	X	.017	.017	0	%100
34	M19	Z	.029	.029	0	%100
35	M20	X	.017	.017	0	%100
36	M20	Z	.029	.029	0	%100
37	M21	X	.017	.017	0	%100
38	M21	Z	.029	.029	0	%100
39	M22	X	.017	.017	0	%100
40	M22	Z	.029	.029	0	%100
41	M23	X	.05	.05	0	%100
42	M23	Z	.086	.086	0	%100
43	M24	X	.05	.05	0	%100
44	M24	Z	.086	.086	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	.314	.314	0	%100
48	MP1A	Z	.543	.543	0	%100
49	MP2A	X	.38	.38	0	%100
50	MP2A	Z	.658	.658	0	%100
51	MP3A	X	.314	.314	0	%100
52	MP3A	Z	.543	.543	0	%100
53	MP4A	X	.314	.314	0	%100
54	MP4A	Z	.543	.543	0	%100
55	MP1C	X	.314	.314	0	%100
56	MP1C	Z	.543	.543	0	%100
57	MP2C	X	.38	.38	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP2C	Z	.658	.658	0	%100
59	MP3C	X	.314	.314	0	%100
60	MP3C	Z	.543	.543	0	%100
61	MP4C	X	.314	.314	0	%100
62	MP4C	Z	.543	.543	0	%100
63	MP1B	X	.314	.314	0	%100
64	MP1B	Z	.543	.543	0	%100
65	MP2B	X	.38	.38	0	%100
66	MP2B	Z	.658	.658	0	%100
67	MP3B	X	.314	.314	0	%100
68	MP3B	Z	.543	.543	0	%100
69	MP4B	X	.314	.314	0	%100
70	MP4B	Z	.543	.543	0	%100
71	M50	X	.05	.05	0	%100
72	M50	Z	.086	.086	0	%100
73	M51	X	.05	.05	0	%100
74	M51	Z	.086	.086	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	.438	.438	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	.438	.438	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	.432	.432	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	1.728	1.728	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	.432	.432	0	%100
11	M9A	X	0	0	0	%100
12	M9A	Z	1.754	1.754	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	1.754	1.754	0	%100
15	M11A	X	0	0	0	%100
16	M11A	Z	.436	.436	0	%100
17	M12B	X	0	0	0	%100
18	M12B	Z	.44	.44	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	.389	.389	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	1.556	1.556	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	.389	.389	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	.991	.991	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	.991	.991	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	.88	.88	0	%100
31	M18	X	0	0	0	%100
32	M18	Z	.88	.88	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	.099	.099	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	M20	X	0	0	0	%100
36	M20	Z	.099	.099	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	.099	.099	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	.099	.099	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	.033	.033	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	.132	.132	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	.033	.033	0	%100
47	MP1A	X	0	0	0	%100
48	MP1A	Z	.627	.627	0	%100
49	MP2A	X	0	0	0	%100
50	MP2A	Z	.759	.759	0	%100
51	MP3A	X	0	0	0	%100
52	MP3A	Z	.627	.627	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	.627	.627	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	.627	.627	0	%100
57	MP2C	X	0	0	0	%100
58	MP2C	Z	.759	.759	0	%100
59	MP3C	X	0	0	0	%100
60	MP3C	Z	.627	.627	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	.627	.627	0	%100
63	MP1B	X	0	0	0	%100
64	MP1B	Z	.627	.627	0	%100
65	MP2B	X	0	0	0	%100
66	MP2B	Z	.759	.759	0	%100
67	MP3B	X	0	0	0	%100
68	MP3B	Z	.627	.627	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	.627	.627	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	.033	.033	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	.132	.132	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	.033	.033	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	0	0	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	0	0	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	-.648	-.648	0	%100
8	M8	Z	1.122	1.122	0	%100
9	M9	X	-.648	-.648	0	%100
10	M9	Z	1.122	1.122	0	%100
11	M9A	X	-.659	-.659	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M9A	Z	1.141	1.141	0	%100
13	M10A	X	-.658	-.658	0	%100
14	M10A	Z	1.139	1.139	0	%100
15	M11A	X	-.657	-.657	0	%100
16	M11A	Z	1.137	1.137	0	%100
17	M12B	X	-.659	-.659	0	%100
18	M12B	Z	1.141	1.141	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-.583	-.583	0	%100
22	M11	Z	1.011	1.011	0	%100
23	M12A	X	-.583	-.583	0	%100
24	M12A	Z	1.011	1.011	0	%100
25	M13A	X	-.66	-.66	0	%100
26	M13A	Z	1.144	1.144	0	%100
27	M14	X	-.66	-.66	0	%100
28	M14	Z	1.144	1.144	0	%100
29	M17	X	-.44	-.44	0	%100
30	M17	Z	.763	.763	0	%100
31	M18	X	-.44	-.44	0	%100
32	M18	Z	.763	.763	0	%100
33	M19	X	-.066	-.066	0	%100
34	M19	Z	.114	.114	0	%100
35	M20	X	-.066	-.066	0	%100
36	M20	Z	.114	.114	0	%100
37	M21	X	-.066	-.066	0	%100
38	M21	Z	.114	.114	0	%100
39	M22	X	-.066	-.066	0	%100
40	M22	Z	.114	.114	0	%100
41	M23	X	0	0	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	-.05	-.05	0	%100
44	M24	Z	.086	.086	0	%100
45	M25	X	-.05	-.05	0	%100
46	M25	Z	.086	.086	0	%100
47	MP1A	X	-.314	-.314	0	%100
48	MP1A	Z	.543	.543	0	%100
49	MP2A	X	-.38	-.38	0	%100
50	MP2A	Z	.658	.658	0	%100
51	MP3A	X	-.314	-.314	0	%100
52	MP3A	Z	.543	.543	0	%100
53	MP4A	X	-.314	-.314	0	%100
54	MP4A	Z	.543	.543	0	%100
55	MP1C	X	-.314	-.314	0	%100
56	MP1C	Z	.543	.543	0	%100
57	MP2C	X	-.38	-.38	0	%100
58	MP2C	Z	.658	.658	0	%100
59	MP3C	X	-.314	-.314	0	%100
60	MP3C	Z	.543	.543	0	%100
61	MP4C	X	-.314	-.314	0	%100
62	MP4C	Z	.543	.543	0	%100
63	MP1B	X	-.314	-.314	0	%100
64	MP1B	Z	.543	.543	0	%100
65	MP2B	X	-.38	-.38	0	%100
66	MP2B	Z	.658	.658	0	%100
67	MP3B	X	-.314	-.314	0	%100
68	MP3B	Z	.543	.543	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	MP4B	X	-.314	-.314	0	%100
70	MP4B	Z	.543	.543	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-.05	-.05	0	%100
74	M51	Z	.086	.086	0	%100
75	M52	X	-.05	-.05	0	%100
76	M52	Z	.086	.086	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-.38	-.38	0	%100
2	M12	Z	.219	.219	0	%100
3	M13	X	-.38	-.38	0	%100
4	M13	Z	.219	.219	0	%100
5	M7	X	-.374	-.374	0	%100
6	M7	Z	.216	.216	0	%100
7	M8	X	-.374	-.374	0	%100
8	M8	Z	.216	.216	0	%100
9	M9	X	-1.496	-1.496	0	%100
10	M9	Z	.864	.864	0	%100
11	M9A	X	-.381	-.381	0	%100
12	M9A	Z	.22	.22	0	%100
13	M10A	X	-.38	-.38	0	%100
14	M10A	Z	.219	.219	0	%100
15	M11A	X	-1.519	-1.519	0	%100
16	M11A	Z	.877	.877	0	%100
17	M12B	X	-1.519	-1.519	0	%100
18	M12B	Z	.877	.877	0	%100
19	M10	X	-.337	-.337	0	%100
20	M10	Z	.194	.194	0	%100
21	M11	X	-.337	-.337	0	%100
22	M11	Z	.194	.194	0	%100
23	M12A	X	-1.347	-1.347	0	%100
24	M12A	Z	.778	.778	0	%100
25	M13A	X	-.858	-.858	0	%100
26	M13A	Z	.495	.495	0	%100
27	M14	X	-.858	-.858	0	%100
28	M14	Z	.495	.495	0	%100
29	M17	X	-.763	-.763	0	%100
30	M17	Z	.44	.44	0	%100
31	M18	X	-.763	-.763	0	%100
32	M18	Z	.44	.44	0	%100
33	M19	X	-.086	-.086	0	%100
34	M19	Z	.05	.05	0	%100
35	M20	X	-.086	-.086	0	%100
36	M20	Z	.05	.05	0	%100
37	M21	X	-.086	-.086	0	%100
38	M21	Z	.05	.05	0	%100
39	M22	X	-.086	-.086	0	%100
40	M22	Z	.05	.05	0	%100
41	M23	X	-.029	-.029	0	%100
42	M23	Z	.017	.017	0	%100
43	M24	X	-.029	-.029	0	%100
44	M24	Z	.017	.017	0	%100
45	M25	X	-.114	-.114	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M25	Z	.066	.066	0	%100
47	MP1A	X	-.543	-.543	0	%100
48	MP1A	Z	.314	.314	0	%100
49	MP2A	X	-.658	-.658	0	%100
50	MP2A	Z	.38	.38	0	%100
51	MP3A	X	-.543	-.543	0	%100
52	MP3A	Z	.314	.314	0	%100
53	MP4A	X	-.543	-.543	0	%100
54	MP4A	Z	.314	.314	0	%100
55	MP1C	X	-.543	-.543	0	%100
56	MP1C	Z	.314	.314	0	%100
57	MP2C	X	-.658	-.658	0	%100
58	MP2C	Z	.38	.38	0	%100
59	MP3C	X	-.543	-.543	0	%100
60	MP3C	Z	.314	.314	0	%100
61	MP4C	X	-.543	-.543	0	%100
62	MP4C	Z	.314	.314	0	%100
63	MP1B	X	-.543	-.543	0	%100
64	MP1B	Z	.314	.314	0	%100
65	MP2B	X	-.658	-.658	0	%100
66	MP2B	Z	.38	.38	0	%100
67	MP3B	X	-.543	-.543	0	%100
68	MP3B	Z	.314	.314	0	%100
69	MP4B	X	-.543	-.543	0	%100
70	MP4B	Z	.314	.314	0	%100
71	M50	X	-.029	-.029	0	%100
72	M50	Z	.017	.017	0	%100
73	M51	X	-.029	-.029	0	%100
74	M51	Z	.017	.017	0	%100
75	M52	X	-.114	-.114	0	%100
76	M52	Z	.066	.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-1.315	-1.315	0	%100
2	M12	Z	0	0	0	%100
3	M13	X	-1.315	-1.315	0	%100
4	M13	Z	0	0	0	%100
5	M7	X	-1.296	-1.296	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	-1.296	-1.296	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	-3e-6	-3e-6	0	%100
12	M9A	Z	0	0	0	%100
13	M10A	X	0	0	0	%100
14	M10A	Z	0	0	0	%100
15	M11A	X	-1.317	-1.317	0	%100
16	M11A	Z	0	0	0	%100
17	M12B	X	-1.313	-1.313	0	%100
18	M12B	Z	0	0	0	%100
19	M10	X	-1.167	-1.167	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M12A	X	-1.167	-1.167	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	-.33	-.33	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	-.33	-.33	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	-.88	-.88	0	%100
30	M17	Z	0	0	0	%100
31	M18	X	-.88	-.88	0	%100
32	M18	Z	0	0	0	%100
33	M19	X	-.033	-.033	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	-.033	-.033	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	-.033	-.033	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	-.033	-.033	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-.099	-.099	0	%100
42	M23	Z	0	0	0	%100
43	M24	X	0	0	0	%100
44	M24	Z	0	0	0	%100
45	M25	X	-.099	-.099	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	-.627	-.627	0	%100
48	MP1A	Z	0	0	0	%100
49	MP2A	X	-.759	-.759	0	%100
50	MP2A	Z	0	0	0	%100
51	MP3A	X	-.627	-.627	0	%100
52	MP3A	Z	0	0	0	%100
53	MP4A	X	-.627	-.627	0	%100
54	MP4A	Z	0	0	0	%100
55	MP1C	X	-.627	-.627	0	%100
56	MP1C	Z	0	0	0	%100
57	MP2C	X	-.759	-.759	0	%100
58	MP2C	Z	0	0	0	%100
59	MP3C	X	-.627	-.627	0	%100
60	MP3C	Z	0	0	0	%100
61	MP4C	X	-.627	-.627	0	%100
62	MP4C	Z	0	0	0	%100
63	MP1B	X	-.627	-.627	0	%100
64	MP1B	Z	0	0	0	%100
65	MP2B	X	-.759	-.759	0	%100
66	MP2B	Z	0	0	0	%100
67	MP3B	X	-.627	-.627	0	%100
68	MP3B	Z	0	0	0	%100
69	MP4B	X	-.627	-.627	0	%100
70	MP4B	Z	0	0	0	%100
71	M50	X	-.099	-.099	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-.099	-.099	0	%100
76	M52	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-1.519	-1.519	0	%100
2	M12	Z	-.877	-.877	0	%100
3	M13	X	-1.519	-1.519	0	%100
4	M13	Z	-.877	-.877	0	%100
5	M7	X	-1.496	-1.496	0	%100
6	M7	Z	-.864	-.864	0	%100
7	M8	X	-.374	-.374	0	%100
8	M8	Z	-.216	-.216	0	%100
9	M9	X	-.374	-.374	0	%100
10	M9	Z	-.216	-.216	0	%100
11	M9A	X	-.378	-.378	0	%100
12	M9A	Z	-.218	-.218	0	%100
13	M10A	X	-.38	-.38	0	%100
14	M10A	Z	-.219	-.219	0	%100
15	M11A	X	-.381	-.381	0	%100
16	M11A	Z	-.22	-.22	0	%100
17	M12B	X	-.378	-.378	0	%100
18	M12B	Z	-.218	-.218	0	%100
19	M10	X	-1.347	-1.347	0	%100
20	M10	Z	-.778	-.778	0	%100
21	M11	X	-.337	-.337	0	%100
22	M11	Z	-.194	-.194	0	%100
23	M12A	X	-.337	-.337	0	%100
24	M12A	Z	-.194	-.194	0	%100
25	M13A	X	0	0	0	%100
26	M13A	Z	0	0	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M17	X	-.763	-.763	0	%100
30	M17	Z	-.44	-.44	0	%100
31	M18	X	-.763	-.763	0	%100
32	M18	Z	-.44	-.44	0	%100
33	M19	X	0	0	0	%100
34	M19	Z	0	0	0	%100
35	M20	X	0	0	0	%100
36	M20	Z	0	0	0	%100
37	M21	X	0	0	0	%100
38	M21	Z	0	0	0	%100
39	M22	X	0	0	0	%100
40	M22	Z	0	0	0	%100
41	M23	X	-.114	-.114	0	%100
42	M23	Z	-.066	-.066	0	%100
43	M24	X	-.029	-.029	0	%100
44	M24	Z	-.017	-.017	0	%100
45	M25	X	-.029	-.029	0	%100
46	M25	Z	-.017	-.017	0	%100
47	MP1A	X	-.543	-.543	0	%100
48	MP1A	Z	-.314	-.314	0	%100
49	MP2A	X	-.658	-.658	0	%100
50	MP2A	Z	-.38	-.38	0	%100
51	MP3A	X	-.543	-.543	0	%100
52	MP3A	Z	-.314	-.314	0	%100
53	MP4A	X	-.543	-.543	0	%100
54	MP4A	Z	-.314	-.314	0	%100
55	MP1C	X	-.543	-.543	0	%100
56	MP1C	Z	-.314	-.314	0	%100
57	MP2C	X	-.658	-.658	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP2C	Z	-.38	-.38	0	%100
59	MP3C	X	-.543	-.543	0	%100
60	MP3C	Z	-.314	-.314	0	%100
61	MP4C	X	-.543	-.543	0	%100
62	MP4C	Z	-.314	-.314	0	%100
63	MP1B	X	-.543	-.543	0	%100
64	MP1B	Z	-.314	-.314	0	%100
65	MP2B	X	-.658	-.658	0	%100
66	MP2B	Z	-.38	-.38	0	%100
67	MP3B	X	-.543	-.543	0	%100
68	MP3B	Z	-.314	-.314	0	%100
69	MP4B	X	-.543	-.543	0	%100
70	MP4B	Z	-.314	-.314	0	%100
71	M50	X	-.114	-.114	0	%100
72	M50	Z	-.066	-.066	0	%100
73	M51	X	-.029	-.029	0	%100
74	M51	Z	-.017	-.017	0	%100
75	M52	X	-.029	-.029	0	%100
76	M52	Z	-.017	-.017	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M12	X	-.658	-.658	0	%100
2	M12	Z	-1.139	-1.139	0	%100
3	M13	X	-.658	-.658	0	%100
4	M13	Z	-1.139	-1.139	0	%100
5	M7	X	-.648	-.648	0	%100
6	M7	Z	-1.122	-1.122	0	%100
7	M8	X	-.648	-.648	0	%100
8	M8	Z	-1.122	-1.122	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M9A	X	-.657	-.657	0	%100
12	M9A	Z	-1.137	-1.137	0	%100
13	M10A	X	-.658	-.658	0	%100
14	M10A	Z	-1.139	-1.139	0	%100
15	M11A	X	-2e-6	-2e-6	0	%100
16	M11A	Z	-3e-6	-3e-6	0	%100
17	M12B	X	-2e-6	-2e-6	0	%100
18	M12B	Z	-3e-6	-3e-6	0	%100
19	M10	X	-.583	-.583	0	%100
20	M10	Z	-1.011	-1.011	0	%100
21	M11	X	-.583	-.583	0	%100
22	M11	Z	-1.011	-1.011	0	%100
23	M12A	X	0	0	0	%100
24	M12A	Z	0	0	0	%100
25	M13A	X	-.165	-.165	0	%100
26	M13A	Z	-.286	-.286	0	%100
27	M14	X	-.165	-.165	0	%100
28	M14	Z	-.286	-.286	0	%100
29	M17	X	-.44	-.44	0	%100
30	M17	Z	-.763	-.763	0	%100
31	M18	X	-.44	-.44	0	%100
32	M18	Z	-.763	-.763	0	%100
33	M19	X	-.017	-.017	0	%100
34	M19	Z	-.029	-.029	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	M20	X	-.017	-.017	0	%100
36	M20	Z	-.029	-.029	0	%100
37	M21	X	-.017	-.017	0	%100
38	M21	Z	-.029	-.029	0	%100
39	M22	X	-.017	-.017	0	%100
40	M22	Z	-.029	-.029	0	%100
41	M23	X	-.05	-.05	0	%100
42	M23	Z	-.086	-.086	0	%100
43	M24	X	-.05	-.05	0	%100
44	M24	Z	-.086	-.086	0	%100
45	M25	X	0	0	0	%100
46	M25	Z	0	0	0	%100
47	MP1A	X	-.314	-.314	0	%100
48	MP1A	Z	-.543	-.543	0	%100
49	MP2A	X	-.38	-.38	0	%100
50	MP2A	Z	-.658	-.658	0	%100
51	MP3A	X	-.314	-.314	0	%100
52	MP3A	Z	-.543	-.543	0	%100
53	MP4A	X	-.314	-.314	0	%100
54	MP4A	Z	-.543	-.543	0	%100
55	MP1C	X	-.314	-.314	0	%100
56	MP1C	Z	-.543	-.543	0	%100
57	MP2C	X	-.38	-.38	0	%100
58	MP2C	Z	-.658	-.658	0	%100
59	MP3C	X	-.314	-.314	0	%100
60	MP3C	Z	-.543	-.543	0	%100
61	MP4C	X	-.314	-.314	0	%100
62	MP4C	Z	-.543	-.543	0	%100
63	MP1B	X	-.314	-.314	0	%100
64	MP1B	Z	-.543	-.543	0	%100
65	MP2B	X	-.38	-.38	0	%100
66	MP2B	Z	-.658	-.658	0	%100
67	MP3B	X	-.314	-.314	0	%100
68	MP3B	Z	-.543	-.543	0	%100
69	MP4B	X	-.314	-.314	0	%100
70	MP4B	Z	-.543	-.543	0	%100
71	M50	X	-.05	-.05	0	%100
72	M50	Z	-.086	-.086	0	%100
73	M51	X	-.05	-.05	0	%100
74	M51	Z	-.086	-.086	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M9	Y	-1.15	-13.66	0	1.008
2	M9	Y	-13.66	-22.031	1.008	2.015
3	M9	Y	-22.031	-21.819	2.015	3.023
4	M9	Y	-21.819	-13.584	3.023	4.031
5	M9	Y	-13.584	-1.15	4.031	5.038
6	M25	Y	-63.867	-24.514	0	.203
7	M25	Y	-24.514	-5.054	.203	.407
8	M25	Y	-5.054	-23.821	.407	.61
9	M25	Y	-23.821	-60.922	.61	.814
10	M8	Y	-1.15	-13.584	0	1.008
11	M8	Y	-13.584	-21.819	1.008	2.015

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M8	Y	-21.819	-22.031	2.015	3.023
13	M8	Y	-22.031	-13.66	3.023	4.031
14	M8	Y	-13.66	-1.15	4.031	5.038
15	M24	Y	-60.922	-23.821	0	.203
16	M24	Y	-23.821	-5.054	.203	.407
17	M24	Y	-5.054	-24.514	.407	.61
18	M24	Y	-24.514	-63.867	.61	.814
19	M12	Y	-.846	-.846	4.267	5.333
20	M13	Y	-2.774	-2.774	0	.341
21	M8	Y	-.277	-6.535	0	.504
22	M8	Y	-6.535	-8.412	.504	1.008
23	M8	Y	-8.412	-7.328	1.008	1.511
24	M8	Y	-7.328	-4.069	1.511	2.015
25	M8	Y	-4.069	-.277	2.015	2.519
26	M9	Y	-.157	-2.911	2.519	3.023
27	M9	Y	-2.911	-8.32	3.023	3.527
28	M9	Y	-8.32	-9.055	3.527	4.031
29	M9	Y	-9.055	-5.57	4.031	4.534
30	M9	Y	-5.57	-2.437	4.534	5.038
31	M7	Y	-.277	-4.069	2.519	3.023
32	M7	Y	-4.069	-7.327	3.023	3.527
33	M7	Y	-7.327	-8.412	3.527	4.031
34	M7	Y	-8.412	-6.536	4.031	4.534
35	M7	Y	-6.536	-.277	4.534	5.038
36	M9	Y	-2.439	-5.57	0	.504
37	M9	Y	-5.57	-9.053	.504	1.008
38	M9	Y	-9.053	-8.317	1.008	1.511
39	M9	Y	-8.317	-2.91	1.511	2.015
40	M9	Y	-2.91	-.157	2.015	2.519
41	M9A	Y	-35.898	-11.873	5.078	5.088
42	M9A	Y	-11.873	.14	5.088	5.098
43	M9A	Y	.14	.14	5.098	5.108
44	M9A	Y	.14	.14	5.108	5.119
45	M9A	Y	.14	.14	5.119	5.129
46	M9A	Y	.14	.14	5.129	5.139
47	M9A	Y	.14	.14	5.139	5.149
48	M9A	Y	.14	.14	5.149	5.159
49	M9A	Y	.14	.14	5.159	5.169
50	M9A	Y	.14	.14	5.169	5.18
51	M9A	Y	.14	.14	5.18	5.19
52	M9A	Y	.14	.14	5.19	5.2
53	M9A	Y	.14	.14	5.2	5.21
54	M9A	Y	.14	.14	5.21	5.22
55	M9A	Y	.14	.14	5.22	5.231
56	M9A	Y	.14	-20.557	5.231	5.241
57	M9A	Y	-20.557	-34.28	5.241	5.251
58	M9A	Y	-34.28	-20.332	5.251	5.261
59	M10A	Y	-.847	-.847	0	1.067
60	M7	Y	-2.447	-5.573	0	.504
61	M7	Y	-5.573	-9.055	.504	1.008
62	M7	Y	-9.055	-8.316	1.008	1.511
63	M7	Y	-8.316	-2.907	1.511	2.015
64	M7	Y	-2.907	-.156	2.015	2.519
65	M8	Y	-.277	-4.066	2.519	3.023
66	M8	Y	-4.066	-7.322	3.023	3.527
67	M8	Y	-7.322	-8.409	3.527	4.031
68	M8	Y	-8.409	-6.537	4.031	4.534

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M8	Y	-6.537	-.277	4.534	5.038
70	M11A	Y	-.886	-.886	4.27	5.337
71	M12B	Y	-.808	-.886	0	1.067

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M9	Y	-1.368	-16.241	0	1.008
2	M9	Y	-16.241	-26.196	1.008	2.015
3	M9	Y	-26.196	-25.945	2.015	3.023
4	M9	Y	-25.945	-16.152	3.023	4.031
5	M9	Y	-16.152	-1.368	4.031	5.038
6	M25	Y	-75.85	-29.119	0	.203
7	M25	Y	-29.119	-5.989	.203	.407
8	M25	Y	-5.989	-28.317	.407	.61
9	M25	Y	-28.317	-72.502	.61	.814
10	M8	Y	-1.368	-16.15	0	1.008
11	M8	Y	-16.15	-25.941	1.008	2.015
12	M8	Y	-25.941	-26.193	2.015	3.023
13	M8	Y	-26.193	-16.241	3.023	4.031
14	M8	Y	-16.241	-1.368	4.031	5.038
15	M24	Y	-72.43	-28.321	0	.203
16	M24	Y	-28.321	-6.009	.203	.407
17	M24	Y	-6.009	-29.145	.407	.61
18	M24	Y	-29.145	-75.93	.61	.814
19	M7	Y	-2.91	-6.626	0	.504
20	M7	Y	-6.626	-10.765	.504	1.008
21	M7	Y	-10.765	-9.887	1.008	1.511
22	M7	Y	-9.887	-3.457	1.511	2.015
23	M7	Y	-3.457	-.186	2.015	2.519
24	M8	Y	-.329	-4.834	2.519	3.023
25	M8	Y	-4.834	-8.705	3.023	3.527
26	M8	Y	-8.705	-9.997	3.527	4.031
27	M8	Y	-9.997	-7.772	4.031	4.534
28	M8	Y	-7.772	-.329	4.534	5.038
29	M11A	Y	-1.053	-1.053	4.27	5.337
30	M12B	Y	-.96	-1.053	0	1.067
31	M7	Y	-.329	-4.837	2.519	3.023
32	M7	Y	-4.837	-8.711	3.023	3.527
33	M7	Y	-8.711	-10.001	3.527	4.031
34	M7	Y	-10.001	-7.771	4.031	4.534
35	M7	Y	-7.771	-.329	4.534	5.038
36	M9	Y	-2.9	-6.623	0	.504
37	M9	Y	-6.623	-10.763	.504	1.008
38	M9	Y	-10.763	-9.888	1.008	1.511
39	M9	Y	-9.888	-3.46	1.511	2.015
40	M9	Y	-3.46	-.186	2.015	2.519
41	M9A	Y	-42.678	-14.115	5.078	5.088
42	M9A	Y	-14.115	.166	5.088	5.098
43	M9A	Y	.166	.166	5.098	5.108
44	M9A	Y	.166	.166	5.108	5.119
45	M9A	Y	.166	.166	5.119	5.129
46	M9A	Y	.166	.166	5.129	5.139
47	M9A	Y	.166	.166	5.139	5.149
48	M9A	Y	.166	.166	5.149	5.159
49	M9A	Y	.166	.166	5.159	5.169
50	M9A	Y	.166	.166	5.169	5.18

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
51	M9A	Y	.166	.166	5.18	5.19
52	M9A	Y	.166	.166	5.19	5.2
53	M9A	Y	.166	.166	5.2	5.21
54	M9A	Y	.166	.166	5.21	5.22
55	M9A	Y	.166	.166	5.22	5.231
56	M9A	Y	.166	-24.44	5.231	5.241
57	M9A	Y	-24.44	-40.755	5.241	5.251
58	M9A	Y	-40.755	-24.172	5.251	5.261
59	M10A	Y	-1.007	-1.007	0	1.067
60	M12	Y	-3.298	-3.298	4.993	5.333
61	M13	Y	-1.006	-1.006	0	1.067
62	M8	Y	-2.898	-6.622	0	.504
63	M8	Y	-6.622	-10.765	.504	1.008
64	M8	Y	-10.765	-9.891	1.008	1.511
65	M8	Y	-9.891	-3.461	1.511	2.015
66	M8	Y	-3.461	-.186	2.015	2.519
67	M9	Y	-.329	-4.838	2.519	3.023
68	M9	Y	-4.838	-8.713	3.023	3.527
69	M9	Y	-8.713	-10.001	3.527	4.031
70	M9	Y	-10.001	-7.77	4.031	4.534
71	M9	Y	-7.77	-.329	4.534	5.038

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N18	N17	N49	N50A	Y	Two Way	-9
2	N15	N16	N50	N53	Y	Two Way	-9
3	N26	N24	N16	N17	Y	Two Way	-9
4	N27	N20	N21	N18	Y	Two Way	-9
5	N23	N21A	N22A	N15	Y	Two Way	-9

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N17	N18	N50A	N49	Y	Two Way	-10.7
2	N15	N16	N50	N53	Y	Two Way	-10.7
3	N23	N21A	N22A	N15	Y	Two Way	-10.7
4	N27	N20	N21	N18	Y	Two Way	-10.7
5	N24	N26	N17	N16	Y	Two Way	-10.7

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	N20A	max	1115.713	5	-777.845	12	644.157	5	0	51	0	51	0	51
2		min	-1113.918	11	-4613.14	42	-643.121	11	0	1	0	1	0	1
3	N20	max	1505.519	10	3685.747	43	1850.744	3	0	51	0	51	0	51
4		min	-1503.057	4	90.818	1	-1850.145	9	0	1	0	1	0	1
5	N21A	max	1052.465	8	3297.368	39	2736.317	1	0	51	0	51	0	51
6		min	-1051.978	2	146.524	9	-2736.003	7	0	1	0	1	0	1
7	N23	max	2463.111	11	3226.793	16	609.661	2	0	51	0	51	0	51
8		min	-2462.11	5	114.137	9	-611.51	8	0	1	0	1	0	1
9	N24	max	2577.727	9	3777.285	24	767.117	1	0	51	0	51	0	51
10		min	-2577.892	3	-81.4	6	-769.288	7	0	1	0	1	0	1
11	N26	max	1131.881	1	3501.629	23	2432.831	1	0	51	0	51	0	51
12		min	-1133.932	7	11.477	41	-2432.506	7	0	1	0	1	0	1
13	N27	max	1876.15	11	3482.007	19	1845.809	11	0	51	0	51	0	51

Envelope Joint Reactions (Continued)

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
14		min	-1877.684	5	-273.013	1	-1845.219	5	0	1	0	1	0	1
15	N28	max	789.602	4	-828.82	3	460.188	10	0	51	0	51	0	51
16		min	-789.328	10	-4540.891	21	-460.346	4	0	1	0	1	0	1
17	N19	max	3.87	12	-777.374	7	1006.716	8	0	51	0	51	0	51
18		min	-3.87	2	-4584.139	13	-1006.142	2	0	1	0	1	0	1
19	Totals:	max	6409.61	10	6178.66	24	6638.042	1						
20		min	-6409.61	4	2796.858	6	-6638.041	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M12	C5X6.7	.346	5.056	10	.714	3.056	z	5	25922.552	74466	1.871	11.182	2...	H1-1b
2	M9A	C5X6.7	.391	5.337	44	.675	2.669	z	1	25883.05	74466	1.871	11.182	1...	H1-1b
3	M12B	C5X6.7	.553	.278	1	.565	4.559	z	3	25883.05	74466	1.871	11.182	2...	H1-1b
4	M13	C5X6.7	.477	.278	2	.564	4.556	z	11	25922.552	74466	1.871	11.182	2...	H1-1b
5	M10A	C5X6.7	.481	.278	5	.562	4.556	z	7	25922.552	74466	1.871	11.182	2...	H1-1b
6	M11A	C5X6.7	.432	5.059	2	.141	.778	z	15	25883.05	74466	1.871	11.182	1...	H1-1b
7	M7	C5X6.7	.265	2.152	5	.127	2.834	y	43	29048.388	74466	1.871	11.182	1...	H1-1b
8	M8	C5X6.7	.259	2.152	1	.123	2.204	y	23	29048.388	74466	1.871	11.182	1...	H1-1b
9	M9	C5X6.7	.240	2.152	9	.117	2.834	y	23	29048.388	74466	1.871	11.182	1...	H1-1b
10	M13A	C5X6.7	.195	0	3	.093	.299	z	2	72529.102	74466	1.871	11.182	1...	H1-1b
11	MP2C	PIPE_2.5	.384	3.896	9	.082	3.984		12	28077.395	50715	3.596	3.596	2...	H1-1b
12	MP2A	PIPE_2.5	.384	3.896	1	.082	3.984		4	28077.395	50715	3.596	3.596	1...	H1-1b
13	MP2B	PIPE_2.5	.384	3.896	5	.082	3.984		8	28077.395	50715	3.596	3.596	2...	H1-1b
14	M14	C5X6.7	.143	.843	8	.078	.545	z	8	72529.102	74466	1.871	11.182	1...	H1-1b
15	MP3A	PIPE_2.0	.241	3.896	1	.053	3.896		9	13511.278	32130	1.872	1.872	2...	H1-1b
16	MP3B	PIPE_2.0	.241	3.896	5	.053	3.896		3	13511.278	32130	1.872	1.872	3...	H1-1b
17	M22	SR_0.5	.011	.542	14	.046	0		11	3551.085	6350.4	.052	.052	1...	H1-1b
18	M21	SR_0.5	.010	.542	14	.041	0		11	3551.085	6350.4	.052	.052	1...	H1-1b
19	MP4A	PIPE_2.0	.173	3.896	7	.038	3.984		9	13511.278	32130	1.872	1.872	1...	H1-1b
20	MP4C	PIPE_2.0	.173	3.896	3	.038	3.984		5	13511.278	32130	1.872	1.872	2...	H1-1b
21	MP4B	PIPE_2.0	.173	3.896	11	.038	3.984		3	13511.278	32130	1.872	1.872	2...	H1-1b
22	MP1B	PIPE_2.0	.256	3.896	5	.030	3.984		10	13511.278	32130	1.872	1.872	2...	H1-1b
23	MP1C	PIPE_2.0	.257	3.896	9	.030	3.984		4	13511.278	32130	1.872	1.872	2...	H1-1b
24	MP1A	PIPE_2.0	.257	3.896	1	.030	3.984		8	13511.278	32130	1.872	1.872	1...	H1-1b
25	M20	SR_0.5	.010	.542	20	.025	0		11	3551.085	6350.4	.052	.052	1...	H1-1b
26	M10	C5X6.7	.100	0	7	.024	.257	z	4	52291.78	74466	1.871	11.182	1...	H1-1b
27	M25	PL1/2X8	.026	.814	12	.020	0	y	12	101850.1...	129600	1.35	21.6	2...	H1-1b
28	M19	SR_0.5	.011	.542	14	.019	0		5	3551.085	6350.4	.052	.052	1...	H1-1b
29	M24	PL1/2X8	.024	.814	3	.019	0	y	3	101850.1...	129600	1.35	21.6	2...	H1-1b
30	M23	PL1/2X8	.022	.814	7	.017	0	y	7	101850.1...	129600	1.35	21.6	2...	H1-1b
31	M51	PL1/2X8	.015	.814	3	.013	.814	y	3	101850.1...	129600	1.35	21.6	2...	H1-1b
32	M52	PL1/2X8	.016	.814	11	.013	.814	y	11	101850.1...	129600	1.35	21.6	2...	H1-1b
33	M12A	C5X6.7	.115	0	1	.011	1.544	z	48	52291.78	74466	1.871	11.182	1...	H1-1b
34	M50	PL1/2X8	.015	0	40	.011	.814	y	7	101850.1...	129600	1.35	21.6	2...	H1-1b
35	M11	C5X6.7	.115	0	5	.010	1.544	z	47	52291.78	74466	1.871	11.182	1...	H1-1b
36	M17	L2x2x4	.181	2.188	5	.009	2.188	z	6	6161.249	30585.6	.691	1.538	2...	H2-1
37	M18	L2x2x4	.158	2.188	11	.007	2.188	z	2	6161.249	30585.6	.691	1.509	1...	H2-1
38	MP3C	PIPE_2.0	.062	3.984	6	.005	3.984		6	13511.278	32130	1.872	1.872	1...	H1-1b

MASER CONSULTING — CONNECTICUT —

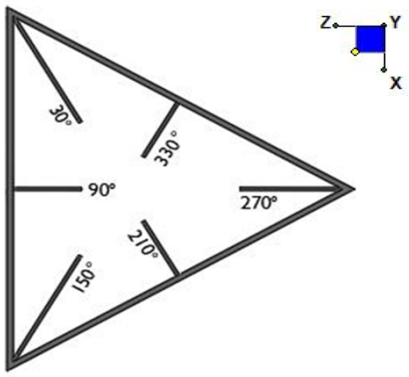
Client:	Verizon	Date:	5/11/2021
Site Name:	Groton 5 MA		
Project No.	21777231A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

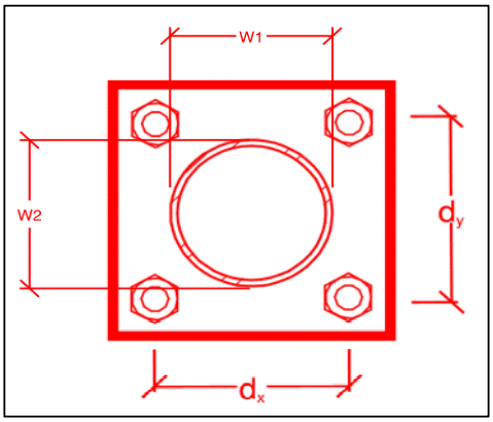
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N27	30
N28	30
N26	30
N24	270
N19	270
N23	270
N21A	150
N20A	150
N20	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	no
Bolt Quantity per Reaction:	1
d_x (in) *(Delta X of typ. bolt config. sketch)* :	
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	1.3
Required Shear Strength (kips):	4.6
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**6.2%***
Shear Capacity Overall:	**37.1%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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 installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed 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 equipment 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 equipment.

        - 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
    - 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.

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 any other information the contractor deems necessary to share that was identified:

Issue:

Contractor shall replace existing mount pipe in position 2 (1 being on the right side of mount when looking from the front) with new 102" long P2.5 STD mount pipe. Connect new mount pipe to existing face horizontal members using new 1/2" Dia. U-bolts and utilizing existing clip angles.

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: 535824-VZW - GROTON 5 CT

Sector: **A**

Structure Type: Monopole

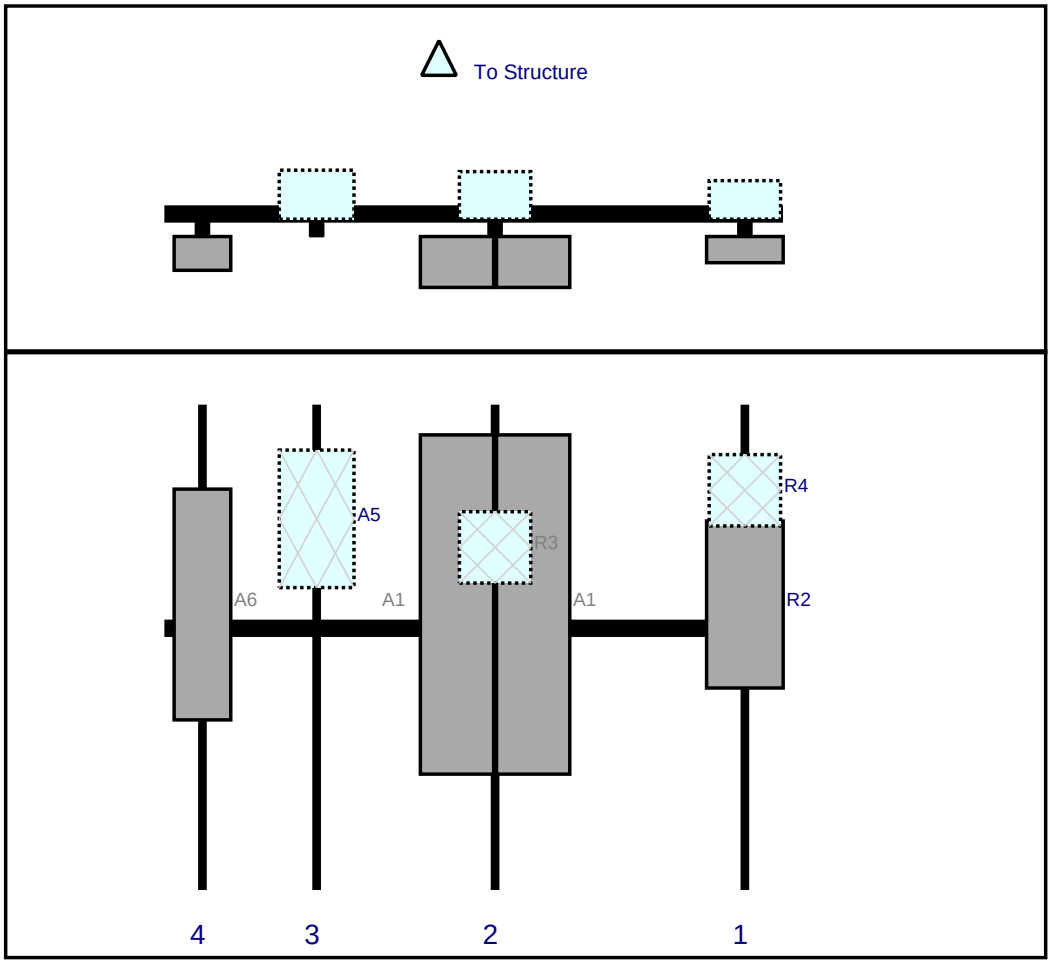
Mount Elev: 134.50

5/7/2021

MASER CONSULTING — CONNECTICUT —

Plan View

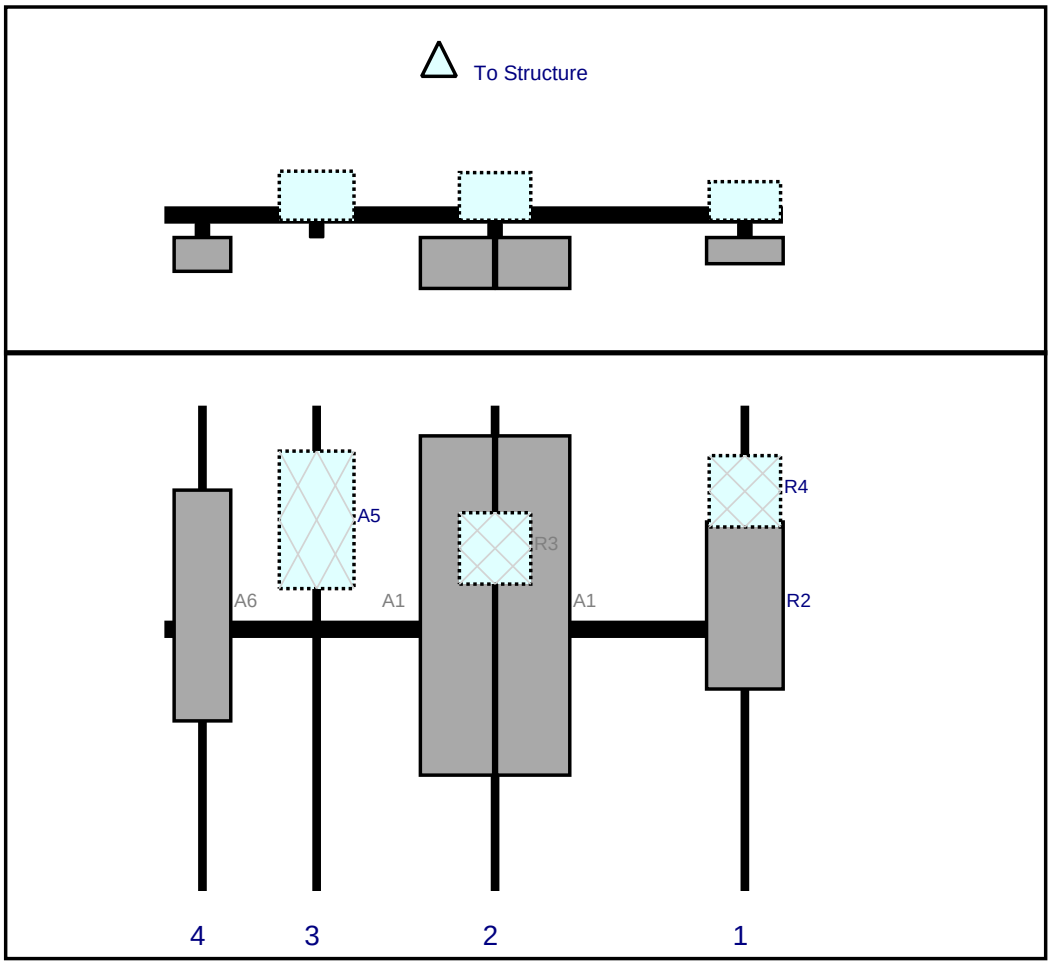
Front View
Looking at Structure



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
R2	MT6407-77A	35.1	16.1	122	1	a	Front	42	0	Added	
R4	B5/B13 RRH-BR04C	15	15	122	1	a	Behind	18	0	Added	
A1	MX06FRO660-02	71.3	15.4	69.5	2	a	Front	42	8	Added	
A1	MX06FRO660-02	71.3	15.4	69.5	2	b	Front	42	-8	Added	
R3	B2/B66A RRH-BR049	15	15	69.5	2	a	Behind	30	0	Added	
A5	DB-B1-6C-12AB-0Z	28.9	15.7	32	3	a	Behind	24	0	Added	
A6	LNX-6512DS-VTM	48.5	11.9	8	4	a	Front	42	0	Retained	03/30/2021

Plan View

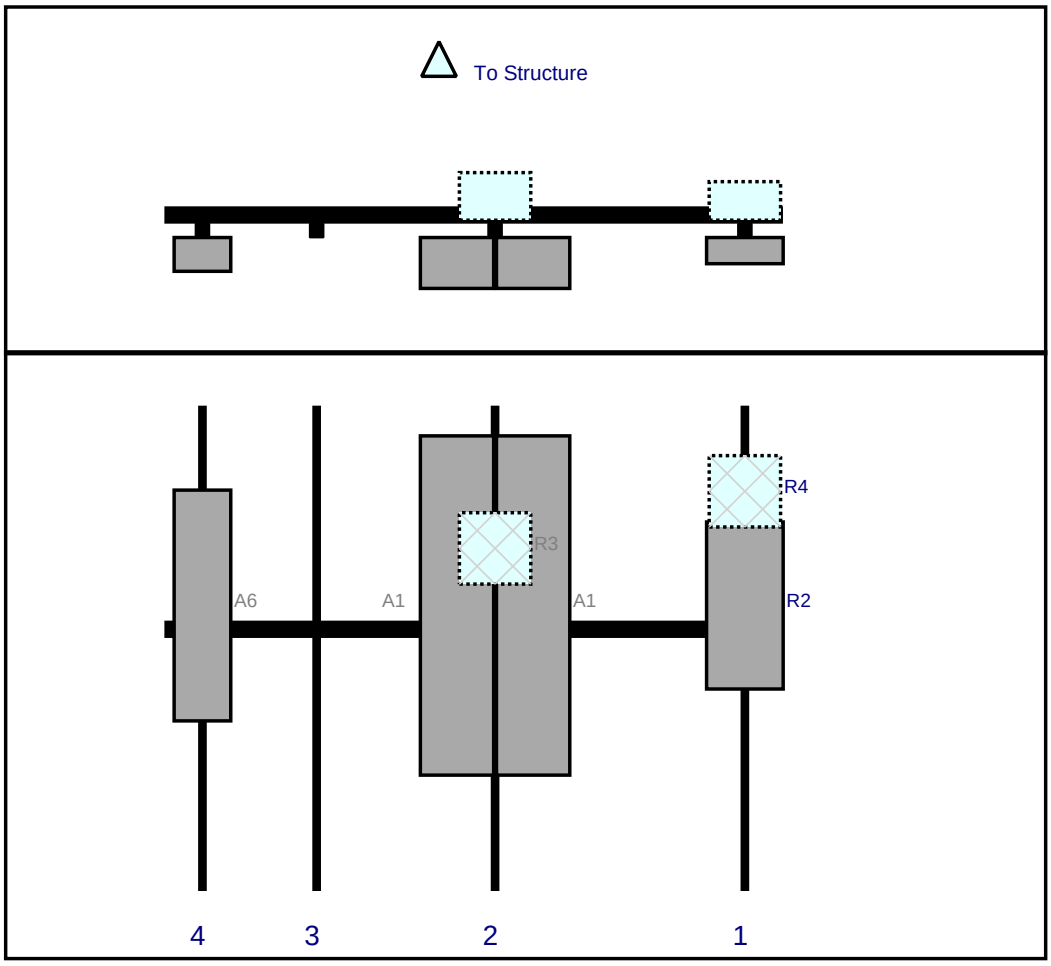
Front View
Looking at Structure



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
A5	DB-B1-6C-12AB-0Z	28.9	15.7	32	3	a	Behind	24	0	Added	
A6	LNX-6512DS-VTM	48.5	11.9	8	4	a	Front	42	0	Retained	03/30/2021
R2	MT6407-77A	35.1	16.1	122	1	a	Front	42	0	Added	
R4	B5/B13 RRH-BR04C	15	15	122	1	a	Behind	18	0	Added	
A1	MX06FRO660-02	71.3	15.4	69.5	2	a	Front	42	8	Added	
A1	MX06FRO660-02	71.3	15.4	69.5	2	b	Front	42	-8	Added	
R3	B2/B66A RRH-BR049	15	15	69.5	2	a	Behind	30	0	Added	

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	MT6407-77A	35.1	16.1	122	1	a	Front	42	0	Added	
R4	B5/B13 RRH-BR04C	15	15	122	1	a	Behind	18	0	Added	
A1	MX06FRO660-02	71.3	15.4	69.5	2	a	Front	42	8	Added	
A1	MX06FRO660-02	71.3	15.4	69.5	2	b	Front	42	-8	Added	
R3	B2/B66A RRH-BR049	15	15	69.5	2	a	Behind	30	0	Added	
A6	LNX-6512DS-VTM	48.5	11.9	8	4	a	Front	42	0	Retained	03/30/2021

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	535824-VZW / GROTON 5 CT
	Site Name:	GROTON 5 CT
	Carrier Name:	Verizon Wireless
	Address:	75 Roberts Road Groton, Connecticut 06430 New London County
	Latitude:	41.360222°
	Longitude:	-72.048639°
Structure Information	Tower Type:	Monopole
	Mount Type:	10.83-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,

Petros Tsoukalas, PE
Geographic Discipline Leader

Exhibit F

Power Density/RF Emissions Report

WATERFORD

verizon

Radio Frequency Exposure
FCC Compliance Assessment
Pre

SITE-SPECIFIC-INFORMATION			
Site Name	**Groton 5 CT**	**Multi-Licensee Facility**	**☒ YES ☐ NO**
Street Address	**75 Roberts Road**	**Is Verizon a Significant Contributor To Co-Locator Areas Requiring Mitigation?**	**☐ YES ☒ NO ☐ N/A**
City, State, Zip	**Groton, CT 06430**		
Verizon's Max % MPE (Measured - Occupational)	**N/A**	**Verizon's Max % MPE (Predictive - Occupational)**	**0.17% on ground level**
Structure Type	**Monopole**	**Assessment Date**	**August 27, 2021**
Broadcast (AM/FM/TV) Co-Locators	**No**	**Assessment Purpose**	**Modification**
Total Access Points	**N/A**	**Total Report Revisions**	**N/A**
Original Report Date		**Report Revision Date**	
Compliance Status	**☒ COMPLIANT AS DESIGNED** **☐ COMPLIANT PER RF SAFETY PLAN SUBMISSION** **☐ MITIGATION IS REQUIRED**		

VERIZON'S WORST-CASE RF EMISSIONS IN ACCESSIBLE AREAS AT THIS FACILITY	
☒	BELOW the General Population MPE limit
☐	ABOVE the General Population MPE limit and BELOW the Occupational MPE limit
☐	ABOVE the Occupational MPE limit and BELOW 10x the Occupational MPE limit
☐	ABOVE 10x the Occupational MPE limit

Final Compliant Configuration							
	GUIDELINES	**NOTICE**	**CAUTION**	**WARNING**	**NOC INFO**	**BARRIER/MARKER**	
Access Point(s)	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Alpha	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Beta	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Gamma	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location; also in Sec. 4 (B)

Additional Compliance Requirements(s):			
Consultant Legal Name	Waterford Consultants, LLC	**Phone/Fax**	(703) 596-1022
Address	7430 New Technology Way Suite 150, Frederick, Maryland 21703		

Contents

1. Introduction

Verizon Wireless has contracted with Waterford Consultants, LLC, an independent Radio Frequency consulting firm, to conduct a **Radio Frequency Exposure (RFE) FCC Compliance Assessment** of the **GROTON 5 CT** cell site. The following report contains a detailed summary of the Radio Frequency environment as it relates to Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) Rules and Regulations for all individuals.

The **Verizon Wireless antenna data** was provided by:

Name	Abubakar Ashraf
Date	August 10, 2021
Sub-Market	New England West

This compliance assessment and report has been **prepared** and **reviewed** by:

	Preparer	**Reviewer**
Name	Jeremy Faille	David C. Cotton, Jr.
Title	RF Technical Supervisor	Principal RF Engineer
Date	August 27, 2021	August 30, 2021

This report utilizes the following for predictive modeling of the ambient RF environment:
MPE Modeling Program: RoofMaster™ (See Section 7)
Required Modeling Assumptions: 100% Duty Cycle and Maximum Total Power Output.

Additional Modeling Assumptions:

Antenna radiation pattern files that characterize directivity and energy suppression values have been utilized to model each RF emitter at this location. If a manufacturer's antenna pattern is not available or the actual antenna model is unknown, Waterford Consultants, LLC has utilized a generic antenna pattern from a library of panel, omnidirectional, microwave and broadcast patterns that are representative of the actual antenna. Similarly, the effective radiated power values for each antenna, if not provided, has been assumed based on antenna type, carrier and region. Refer to the antenna inventory table for a listing of the emitter properties utilized in this report.

Documents utilized in this analysis:

535824_GROTON 5 CT_rec02052021_16227586_CDs_Rev 0_07012021.pdf
RFDSGROTON5CT2098328Rev02020072852202185842

2. Existing Site Characteristics

a. Structure

Physical Description	Antennas are mounted on a 145 ft Monopole.
Single-Family Home	No
Latitude (NAD 83)	41.360222
Longitude (NAD 83)	-72.048639
Total Analyzed Elevations (All Levels)	3

b. Existing Verizon Observations

Existing Observations							
	GUIDELINES	**NOTICE**	**CAUTION**	**WARNING**	**NOC INFO**	**BARRIER/MARKER**	
Access Point(s)	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Alpha	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Beta	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Gamma	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A

NOTE: The table above represents EXISTING compliance items implemented at this location.

Are Verizon signs posted on the front, back and sides of antenna arrays where possible?	**☐ YES ☐ NO ☒ N/A**
Are Verizon signs visible from all areas of approach?	**☐ YES ☐ NO ☒ N/A**
Are there any broken, damaged or illegible Verizon signs?	**☐ YES ☐ NO ☒ N/A**
Are there any broken or damaged Verizon physical barriers?	**☐ YES ☐ NO ☒ N/A**
Are there any Verizon indicative markers in need of repair or replacement?	**☐ YES ☐ NO ☒ N/A**

c. Antenna Inventory

Z-height represents the distance from the nearest walking surface to the _____ of the antenna.	**☐ Bottom ☒ Centerline ☐ Top**
NON-Verizon Co-locator Data	**☒ Estimates ☐ Actual Data ☐ N/A**

Roof Master™ Antenna Inventory

Ant #	Operator	Antenna Make	Antenna Model	Type	Frequency (MHz)	Az (Deg)	Downtilt (Deg)	Horizontal Beam Width (Deg)	Ant (ft)	TPO (W)	# of Ch	Loss (dB)	Ant Gain (dBd)	Total ERP (W)	Total EIRP (W)	Antenna Centerline Ground Level (0 ft)
1	Verizon	JMA	MX06FRO660-02 06DT	Panel	700	350	0	60	5.9	40	2	0	12.45	1406	2307	135
1	Verizon	JMA	MX06FRO660-02 06DT	Panel	850	350	0	53	5.9	40	2	0	12.55	1439	2361	135
1	Verizon	JMA	MX06FRO660-02 02DT	Panel	1900	350	0	57	5.9	40	4	0	15.95	6297	10330	135
2	Verizon	JMA	MX06FRO660-02 06DT	Panel	700	350	0	60	5.9	40	2	0	12.45	1406	2307	135
2	Verizon	JMA	MX06FRO660-02 06DT	Panel	850	350	0	53	5.9	40	2	0	12.55	1439	2361	135
2	Verizon	JMA	MX06FRO660-02 02DT	Panel	2100	350	0	52	5.9	60	4	0	15.55	8614	14132	135
3	Verizon	SAMSUNG	SON_MT6407 TB 03.24.21 3700 VZW	Panel	3700	350	0	12	2.9	200	1	0	23.34	43155	70799	135
4	Verizon	COMMSCOPE	LNX-6512DS-VTM 00DT	Panel	850	30	0	65	4	20	2	0	12.961	791	1298	135
5	Verizon	JMA	MX06FRO660-02 06DT	Panel	700	120	0	60	5.9	40	2	0	12.45	1406	2307	135
5	Verizon	JMA	MX06FRO660-02 06DT	Panel	850	120	0	53	5.9	40	2	0	12.55	1439	2361	135
5	Verizon	JMA	MX06FRO660-02 02DT	Panel	1900	120	0	57	5.9	40	4	0	15.95	6297	10330	135
6	Verizon	JMA	MX06FRO660-02 06DT	Panel	700	120	0	60	5.9	40	2	0	12.45	1406	2307	135
6	Verizon	JMA	MX06FRO660-02 06DT	Panel	850	120	0	53	5.9	40	2	0	12.55	1439	2361	135
6	Verizon	JMA	MX06FRO660-02 02DT	Panel	2100	120	0	52	5.9	60	4	0	15.55	8614	14132	135
7	Verizon	SAMSUNG	SON_MT6407 TB 03.24.21 3700 VZW	Panel	3700	120	0	12	2.9	200	1	0	23.34	43155	70799	135
8	Verizon	COMMSCOPE	LNX-6512DS-VTM 00DT	Panel	850	150	0	65	4	20	2	0	12.961	791	1298	135
9	Verizon	JMA	MX06FRO660-02 06DT	Panel	700	230	0	60	5.9	40	2	0	12.45	1406	2307	135
9	Verizon	JMA	MX06FRO660-02 06DT	Panel	850	230	0	53	5.9	40	2	0	12.55	1439	2361	135
9	Verizon	JMA	MX06FRO660-02 02DT	Panel	1900	230	0	57	5.9	40	4	0	15.95	6297	10330	135
10	Verizon	JMA	MX06FRO660-02 06DT	Panel	700	230	0	60	5.9	40	2	0	12.45	1406	2307	135
10	Verizon	JMA	MX06FRO660-02 06DT	Panel	850	230	0	53	5.9	40	2	0	12.55	1439	2361	135
10	Verizon	JMA	MX06FRO660-02 02DT	Panel	2100	230	0	52	5.9	60	4	0	15.55	8614	14132	135
11	Verizon	SAMSUNG	SON_MT6407 TB 03.24.21 3700 VZW	Panel	3700	230	0	12	2.9	200	1	0	23.34	43155	70799	135
18	Verizon	COMMSCOPE	LNX-6512DS-VTM 00DT	Panel	850	270	0	65	4	20	2	0	12.961	791	1298	135
19	Unknown	COMMSCOPE	SBNHH-1D45A 02DT	Panel	700	0	0	48	4	30	2	0	12.5	1062	1742	147
19	Unknown	COMMSCOPE	SBNHH-1D45A 02DT	Panel	850	0	0	43	4	40	1	0	13.8	955	1567	147
20	Unknown	COMMSCOPE	SBNHH-1D45A 10DT	Panel	850	0	0	43	4	60	2	0	13.8	2865	4701	128
21	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	1900	0	0	42	6	40	4	0	17.8	9597	15744	147
21	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	2100	0	0	42	6	40	4	0	18.2	10498	17223	147
22	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	2300	0	0	39	6	25	4	0	18.4	6934	11376	128
23	Unknown	COMMSCOPE	SBNHH-1D45A 02DT	Panel	700	120	0	48	4	30	2	0	12.5	1062	1742	147
23	Unknown	COMMSCOPE	SBNHH-1D45A 02DT	Panel	850	120	0	43	4	40	1	0	13.8	955	1567	147
24	Unknown	COMMSCOPE	SBNHH-1D45A 10DT	Panel	850	120	0	43	4	60	2	0	13.8	2865	4701	128
25	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	1900	120	0	42	6	40	4	0	17.8	9597	15744	147
25	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	2100	120	0	42	6	40	4	0	18.2	10498	17223	147

Ant #	Operator	Antenna Make	Antenna Model	Type	Frequency (MHz)	Az (Deg)	Downtilt (Deg)	Horizontal Beam Width (Deg)	Ant (ft)	TPO (W)	# of Ch	Loss (dB)	Ant Gain (dBd)	Total ERP (W)	Total EIRP (W)	Antenna Centerline Ground Level (0 ft)
26	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	2300	120	0	39	6	25	4	0	18.4	6934	11376	128
27	Unknown	COMMSCOPE	SBNHH-1D45A 02DT	Panel	700	240	0	48	4	30	2	0	12.5	1062	1742	147
27	Unknown	COMMSCOPE	SBNHH-1D45A 02DT	Panel	850	240	0	43	4	40	1	0	13.8	955	1567	147
28	Unknown	COMMSCOPE	SBNHH-1D45A 10DT	Panel	850	240	0	43	4	60	2	0	13.8	2865	4701	128
29	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	1900	240	0	42	6	40	4	0	17.8	9597	15744	147
29	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	2100	240	0	42	6	40	4	0	18.2	10498	17223	147
30	Unknown	COMMSCOPE	SBNHH-1D45B 00DT	Panel	2300	240	0	39	6	25	4	0	18.4	6934	11376	128
31	Unknown	RFS	APXV9ERR18-C-02DT	Panel	850	0	0	80	6	25	4	0	11.9	1531	2512	118
31	Unknown	RFS	APXV9ERR18-C-00DT	Panel	1900	0	0	80	6	45	4	0	14.6	5132	8419	118
32	Unknown	RFS	APXVTM14 ALU-I20 00DT	Panel	2500	0	0	65	4.7	20	8	0	15.9	6153	10095	118
33	Unknown	RFS	APXV9ERR18-C-02DT	Panel	850	120	0	80	6	25	4	0	11.9	1531	2512	118
33	Unknown	RFS	APXV9ERR18-C-00DT	Panel	1900	120	0	80	6	45	4	0	14.6	5132	8419	118
34	Unknown	RFS	APXVTM14 ALU-I20 00DT	Panel	2500	120	0	65	4.7	20	8	0	15.9	6153	10095	118
35	Unknown	RFS	APXV9ERR18-C-02DT	Panel	850	240	0	80	6	25	4	0	11.9	1531	2512	118
35	Unknown	RFS	APXV9ERR18-C-00DT	Panel	1900	240	0	80	6	45	4	0	14.6	5132	8419	118
36	Unknown	RFS	APXVTM14 ALU-I20 00DT	Panel	2500	240	0	65	4.7	20	8	0	15.9	6153	10095	118
37	Unknown	COMMSCOPE	F-65C-R1 02DT	Panel	600	0	0	60	8	30	4	0	13.6	2730	4479	108
38	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	700	0	0	36	6.1	30	2	0	13.7	1407	2308	108
38	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	1900	0	0	33	6.1	40	2	0	16.4	3492	5729	108
38	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	2100	0	0	34	6.1	40	2	0	16.7	3742	6139	108
39	Unknown	COMMSCOPE	F-65C-R1 02DT	Panel	600	120	0	60	8	30	4	0	13.6	2730	4479	108
40	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	700	120	0	36	6.1	30	2	0	13.7	1407	2308	108
40	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	1900	120	0	33	6.1	40	2	0	16.4	3492	5729	108
40	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	2100	120	0	34	6.1	40	2	0	16.7	3742	6139	108
41	Unknown	COMMSCOPE	F-65C-R1 02DT	Panel	600	240	0	60	8	30	4	0	13.6	2730	4479	108
42	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	700	240	0	36	6.1	30	2	0	13.7	1407	2308	108
42	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	1900	240	0	33	6.1	40	2	0	16.4	3492	5729	108
42	Unknown	AMPHENOL	HEX336CW0000x-T00	Panel	2100	240	0	34	6.1	40	2	0	16.7	3742	6139	108

Note 1: Operating parameters depicted in above table have been provided by client.

Note 2: Some antennas identified by the SON designation may employ beamsteering technology where RF energy allocated to each customer device is dynamically directed toward their location. In the analysis presented herein, predicted exposure levels are based on all beams at full utilization (i.e. full power) simultaneously focused in any direction. As this condition is unlikely to occur, the actual power density levels at ground and at adjacent structures will be less than the levels reported below.

Note 3: No other transmitting antennas are known to be operating in the vicinity of this site.

3. Analysis

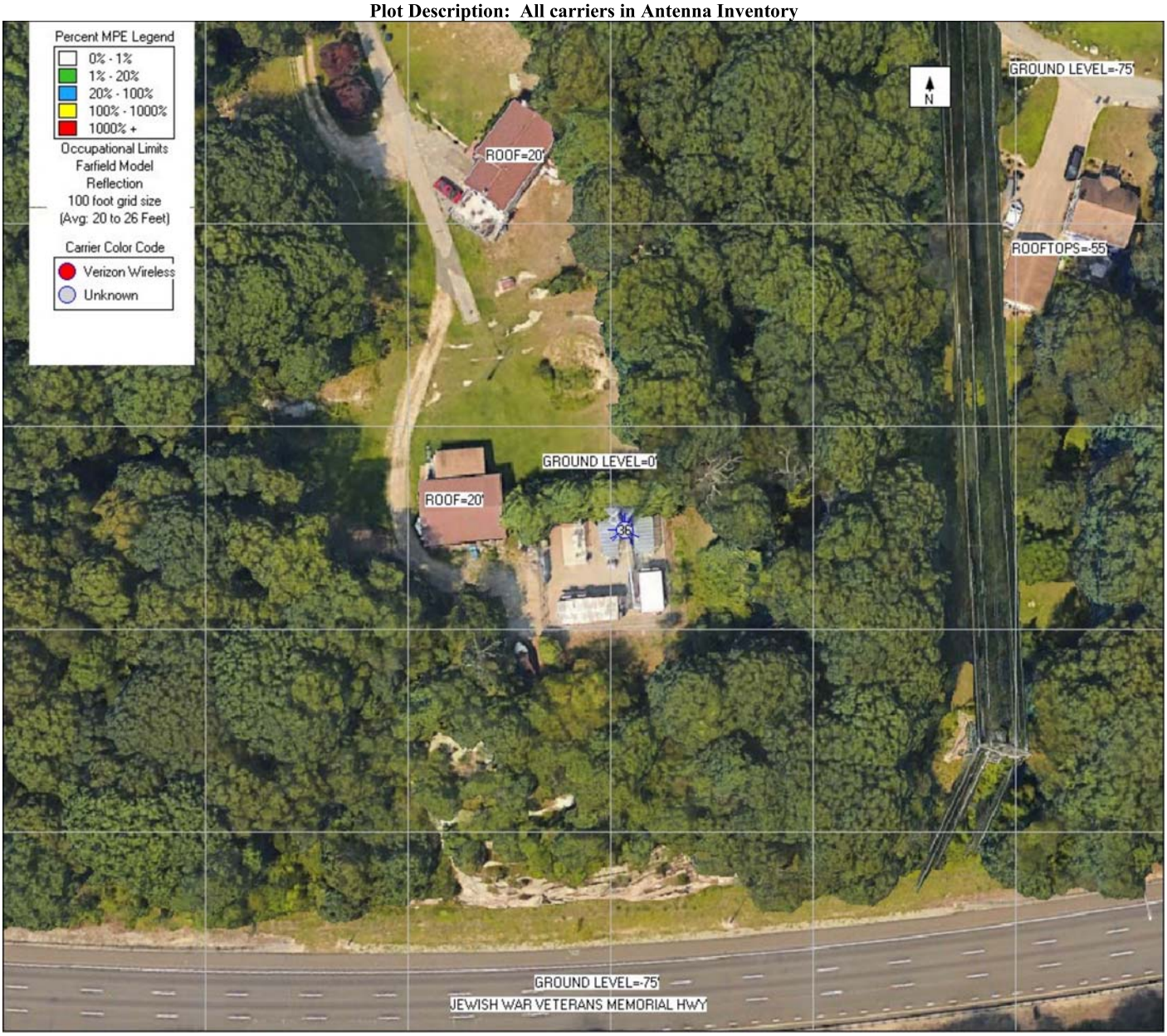
Could field measurements be taken in areas with Verizon antennas?	**☐ YES ☐ NO ☒ N/A**
Describe why measurements could not be taken - if applicable.	**N/A**
Adjacent Structure(s)	**☐ Touching ☐ Potential Concern ☒ No Concern**
If the structure is a Single-Family Residential Home, were measurements taken inside the residence?	**☐ YES ☐ NO ☒ N/A**
Field Measurement Equipment	**☐ Broadband ☐ Narrowband ☒ N/A**
Field Measurement Start Time	**N/A**
Field Measurement End Time	**N/A**
Location Broadband Equipment Zeroed	**N/A**

Surrounding Environment

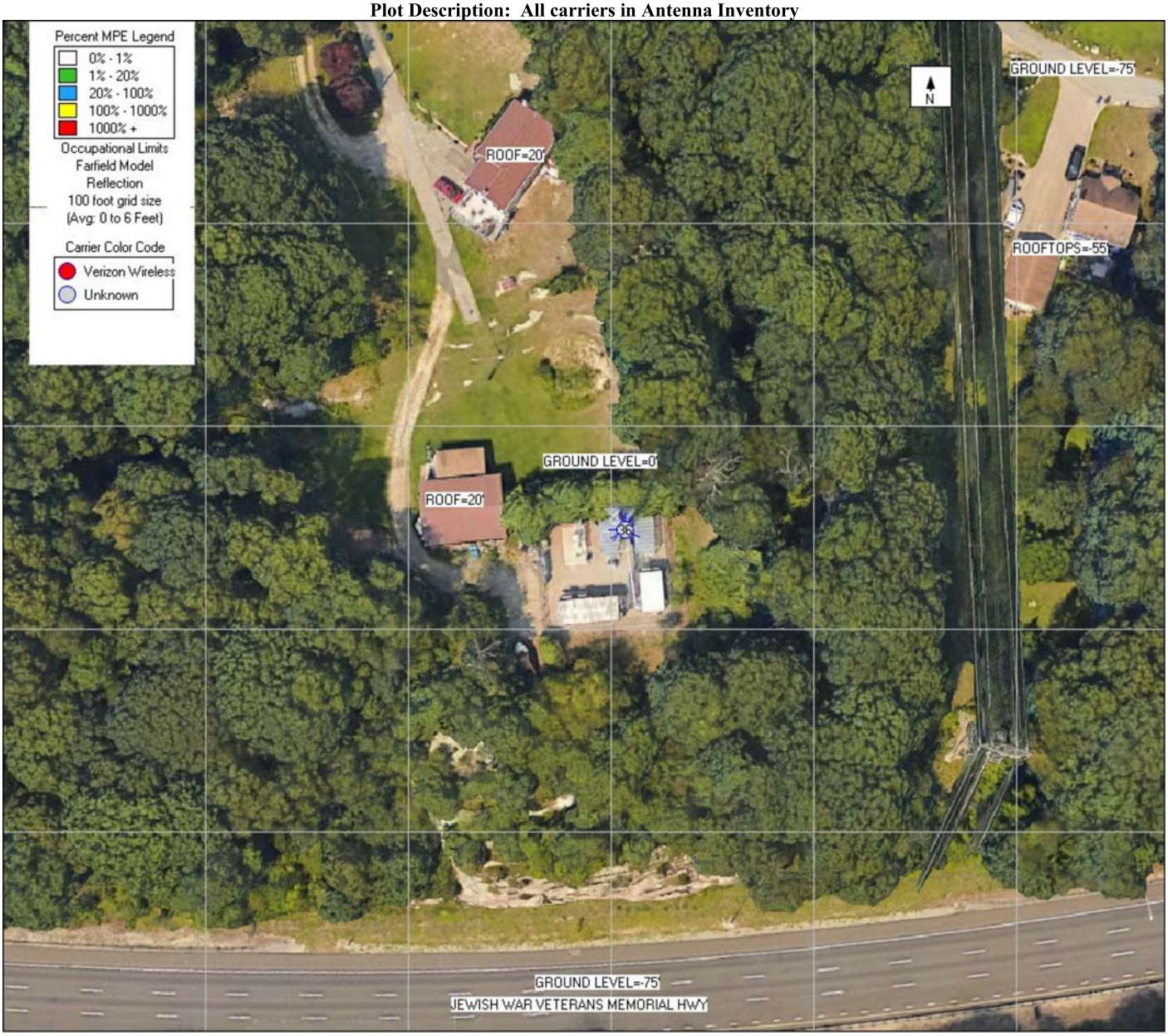
a. Predictive Model: All Transmitters

Is the area being modeled completely INACCESSIBLE to members of the general population (including untrained maintenance workers)?	**☐ YES ☒ NO**

Reference Plane: 20 ft (Adjacent Buildings Level)
Plot Description: All carriers in Antenna Inventory

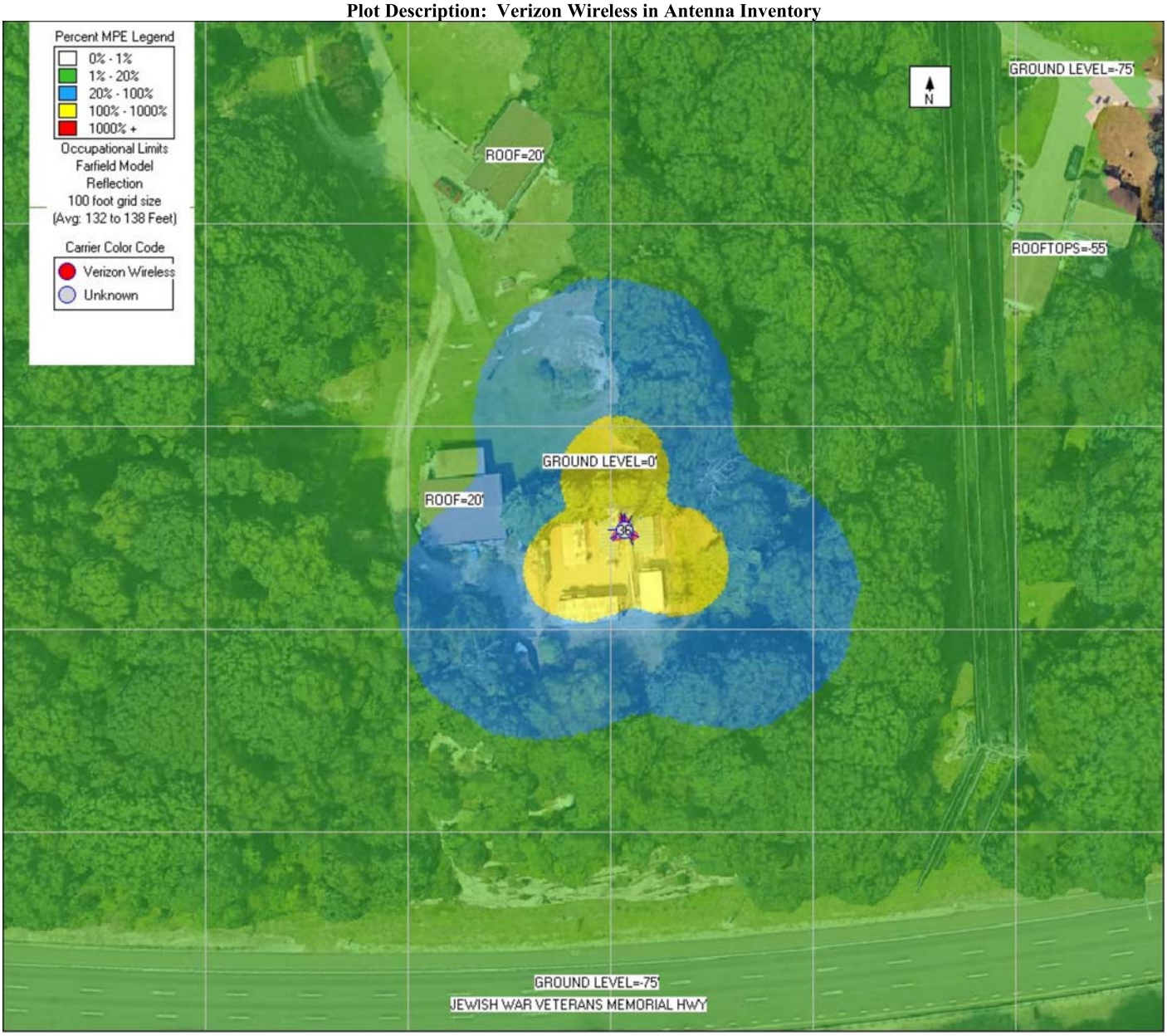


Reference Plane: 0 ft (Ground Level)
Plot Description: All carriers in Antenna Inventory

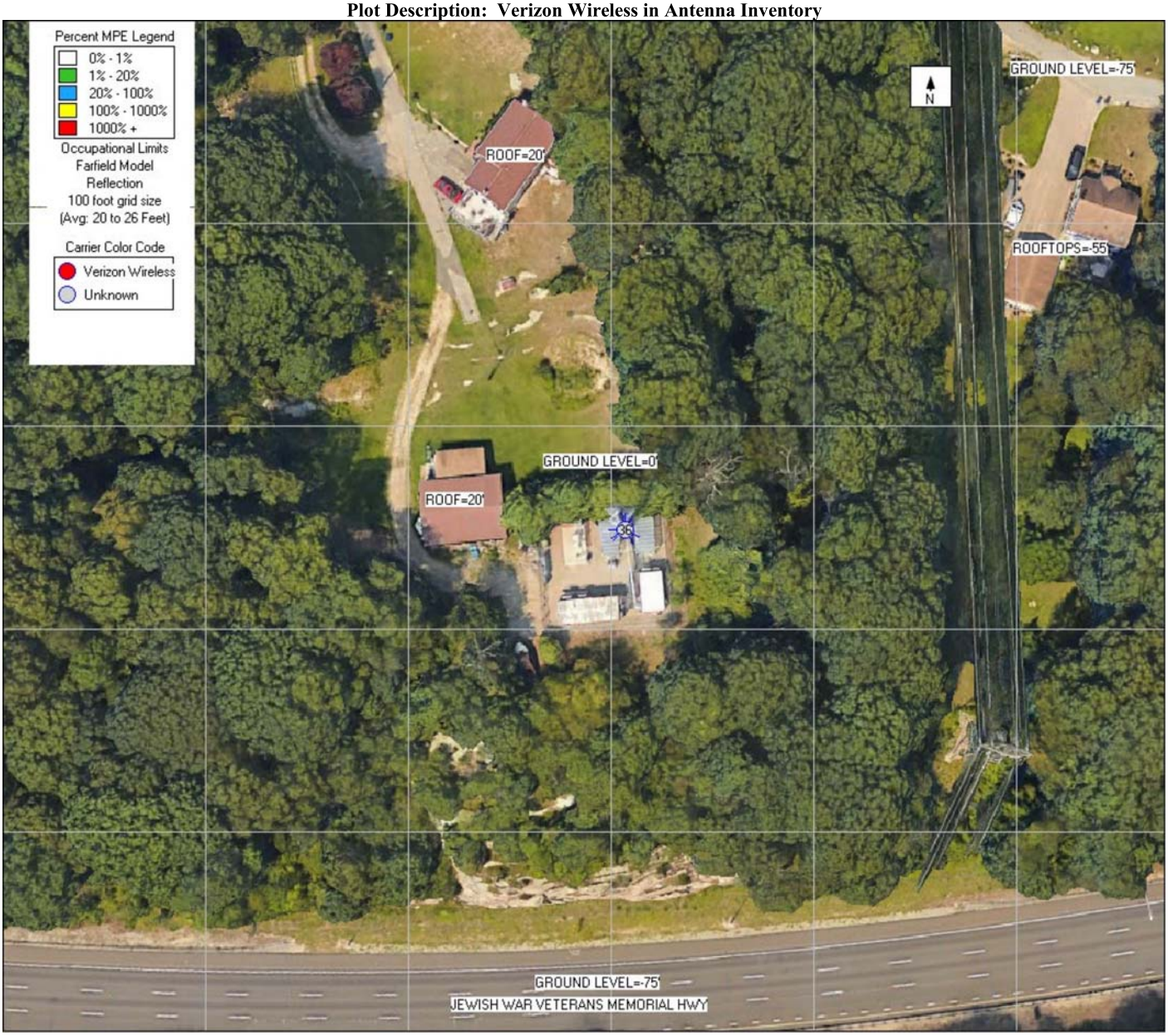


b. Predictive Model: Verizon Transmitters

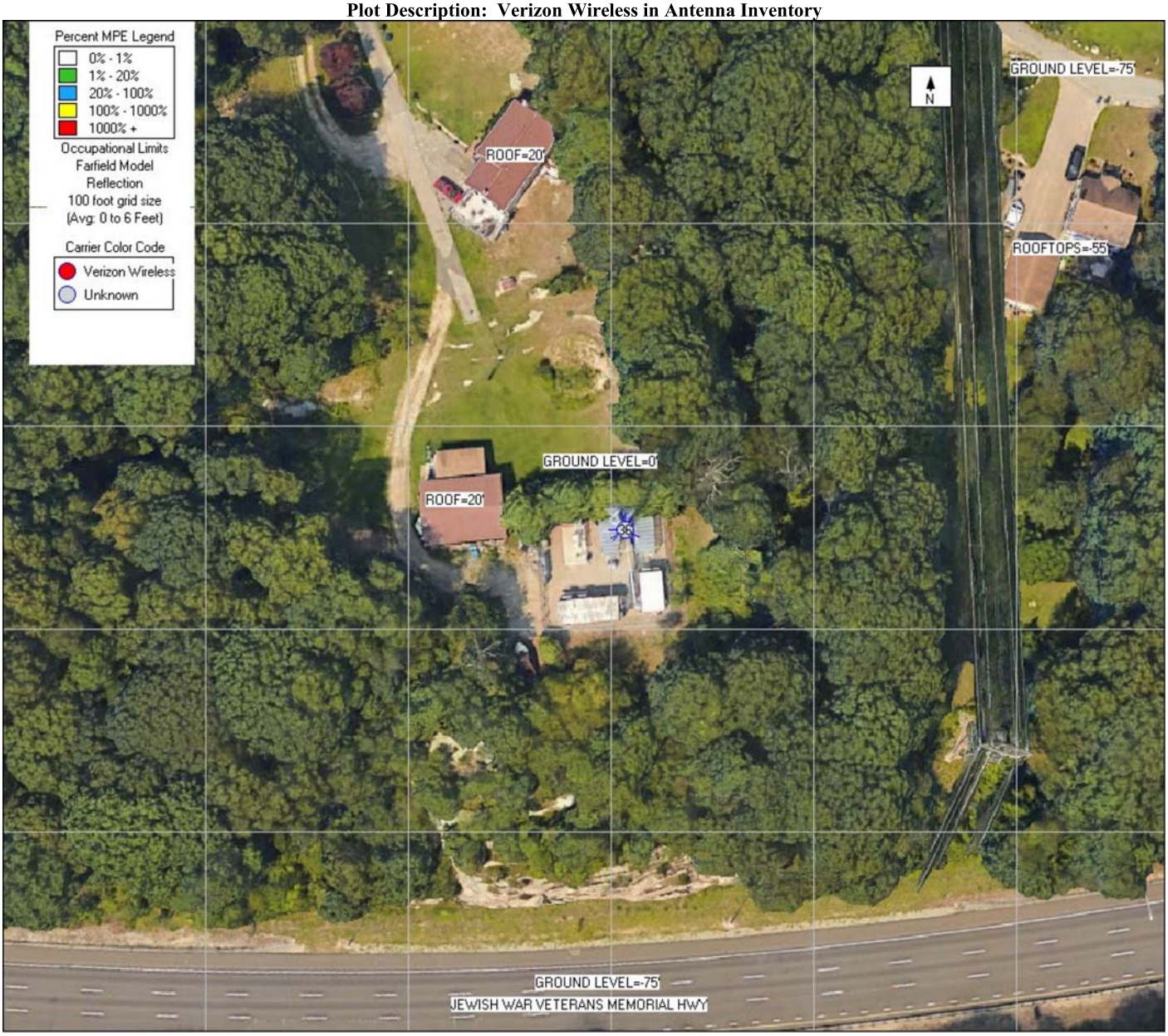
Reference Plane: 132 ft (Antenna Level)
Plot Description: Verizon Wireless in Antenna Inventory



Reference Plane: 20 ft (Adjacent Building Level)
Plot Description: Verizon Wireless in Antenna Inventory



Reference Plane: 0 ft (Ground Level)
Plot Description: Verizon Wireless in Antenna Inventory



4. Conclusion

a. Conclusion Narrative

Description of MPE-Limit Exceeding Areas:

Adjacent Building (20 ft) Assessment

- Antenna Inventory Configuration: Below General Population limits

Ground Level (0 ft) Assessment

- Antenna Inventory Configuration: Below General Population limits

Potentially Non-Compliant Co-Locator Areas: Verizon Responsibility

The following table represents potentially non-compliant co-locators for which Verizon is a 5% General Population MPE (1% Occupational MPE) contributor.

AT&T	T-Mobile	Sprint	US Cellular	Unknown	Other
☐	☐	☐	☐	☐	Insert Co-Locator
					Insert Co-Locator
					Insert Co-Locator
					Insert Co-Locator

b. Signage/Barrier Diagram

Final Compliant Configuration							
	GUIDELINES	**NOTICE**	**CAUTION**	**WARNING**	**NOC INFO**	**BARRIER/MARKER**	
Access Point(s)	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

c. Signage/Barrier Installation Detail

Mitigation Actions Required/Taken												
	GUIDELINES		NOTICE		CAUTION		WARNING		NOC INFO		BARRIER/MARKER	
Access Point(s)	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Alpha	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Beta	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
Gamma	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐ [#]	☐	N/A
	ADD	REM	ADD	REM	ADD	REM	ADD	REM	ADD	REM	ADD ONLY	

NOTE: The table represents either the signage/barriers installed / removed OR items required by the market (if mitigation is not installed by consultant/vendor).

SPECIAL MITIGATION INSTRUCTIONS	
Items to be Installed	Access: No action required Alpha: No action required Beta: No action required Gamma: No action required
Items to be Removed	N/A
Items to be Repaired/Replaced	N/A

SPECIAL OPERATING MITIGATION INSTRUCTIONS	
Alpha	N/A
Beta	N/A
Gamma	N/A

5. Appendix C: RF Consultant Certifications

a. Preparer Certification

I, Jeremy Faille, the preparer of this report, am fully aware of and familiar with the rules and regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the Verizon Wireless Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

Jeremy Faille

b. Reviewer Certification

I, David C. Cotton, Jr., am the reviewer and approver of this report, am fully aware of and familiar with the rules and regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the Verizon Wireless Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

6. Appendix D: Reference Information

a. FCC Rules & Regulations

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards "incorporate prudent margins of safety." The following represents explanations of the most applicable information:

Two Classifications for Exposure Limits

Occupational – Applies to situations in which persons are "exposed as a consequence of their *employment*" and are "*fully aware* of the potential for exposure and can *exercise control* over their exposure".	General Population – Applies to situations in which persons are "exposed as a consequence of their employment *may not be made fully aware* of the potential for exposure or *cannot exercise control* over their exposure". Generally speaking, those without significant and documented RF Safety & Awareness training would be in the General Population classification.

Environment Classification

Controlled – Applies to environments that are restricted or "controlled" in order to prevent access from members of the General Population classification.	Uncontrolled – Applies to environments that are unrestricted or "uncontrolled" that allow access from members of the General Population classification.

Limits for Occupational/Controlled Exposure		
Frequency Range (MHz)	**Power Density (S) (mW/cm^2)**	**Averaging Time $\|E\|^2$, $\|H\|^2$, or S (minutes)**
300-1500	f/300	6
1500-100,000	5	6
Limits for General Population/Uncontrolled Exposure		
Frequency Range (MHz)	**Power Density (S) (mW/cm^2)**	**Averaging Time $\|E\|^2$, $\|H\|^2$, or S (minutes)**
300-1500	f/1500	30
1500-100,000	1	30
f = frequency in MHz		

Significant Contribution to the RF Environment

Any carrier contributing an aggregate MPE percentage of *5* or more (to the applicable RF Environment Classification) is defined as a significant contributor. This means that if any area is determined to be out of compliance with FCC rules, all significant contributors are jointly responsible for correcting any deficiencies.

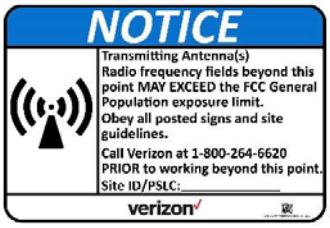
b. Occupational Safety and Health Administration (OSHA) Requirements

A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
• Utilization of good equipment • Enact control of hazard areas • Limit exposures • Employ medical surveillance and accident response	• Employ Lockout/Tag out • Utilize personal alarms & protective clothing • Prevent access to hazardous locations • Develop or operate an administrative control program

c. RF Signage

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage MUST be viewable regardless of the viewer's position.

GUIDELINES	NOTICE	CAUTION	WARNING
This sign will inform anyone of the basic precautions to follow when entering an area with transmitting radiofrequency equipment.	This sign indicates that RF emissions may exceed the FCC General Population MPE limit.	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit.	This sign indicates that RF emissions may exceed at least 10x the FCC Occupational MPE limit.
			

NOC INFORMATION	
Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the Verizon Wireless Network Operations Center phone number.	

d. Physical Barriers

Physical barriers are control measures that require awareness and participation of personnel. Physical barriers are employed as an additional administration control to complement RF signage and physically demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example**: chain-connected stanchions

e. Indicative Markers

Indicative markers are visible control measures that require awareness and participation of personnel, as they cannot physically prevent someone from entering an area of potential concern. Indicative markers are employed as an additional administration control to complement RF signage and visually demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example**: paint stripes.

7. Appendix E: Roofmaster™

RoofMaster™ is the software package that Waterford Consultants created to model RF environments associated with multiple emitters where the potential exists for human exposure. Based on the computational guidelines set forth in OET Bulletin 65 from the Federal Communications Commission (FCC), RoofMaster™ considers the operating parameters of specified RF sources to predict the overall Maximum Permissible Exposure possible at a given location. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

From the FCC document:

> *"The revised OET Bulletin 65 has been prepared to provide assistance in determining whether proposed or existing transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) fields adopted by the Federal Communications Commission (FCC). The bulletin offers guidelines and suggestions for evaluating compliance."*

http://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf

8. Appendix F: Qualifications of Waterford Consultants, LLC

Waterford Consultants, LLC [Waterford] provides technical consulting services to clients in the radio communications and antenna locating industry. Waterford retains professional engineers who are placed in responsible charge of the processes for analysis.

Waterford is familiar with 47 C.F.R. § § 1.1307 and 1.1310 along with the general rules, regulations and policies of the FCC. Waterford work processes incorporate all specifications of FCC Office of Engineering and Technology, Bulletin 65 ("OET65"), from the website: www.fcc.gov/oet/rfsafety and follow criteria detailed in 47 CFR § 1.1310 "Radiofrequency radiation exposure Limits".

Within the technical and regulatory framework detailed above, Waterford developed tools according to recognized and generally accepted good engineering practices. Permissible exposure limits are band specific, and the Waterford computerized modeling tools correctly calculate permissible exposure based on the band(s) specified in the input data. Only clients and client representatives are authorized to provide input data through the Waterford web portal. In securing that authorization, clients and client representatives attest to the accuracy of all input data.

Waterford Consultants, LLC attests to the accuracy of the engineering calculations computed by those modeling tools. Furthermore, Waterford attests that the results of those engineering calculations are correctly summarized in this report

9. Appendix G: Statement of Limiting Conditions

Due to the complexity of some wireless sites, Waterford Consultants has created this report utilizing best industry practices and due diligence. Waterford Consultants cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions (i.e., mislabeling of antennas or equipment, inaccessible cable runs, inaccessible antennas or equipment, etc.) or information or data supplied by Wireless Carrier, the site manager, or their affiliates, subcontractors or assigns.

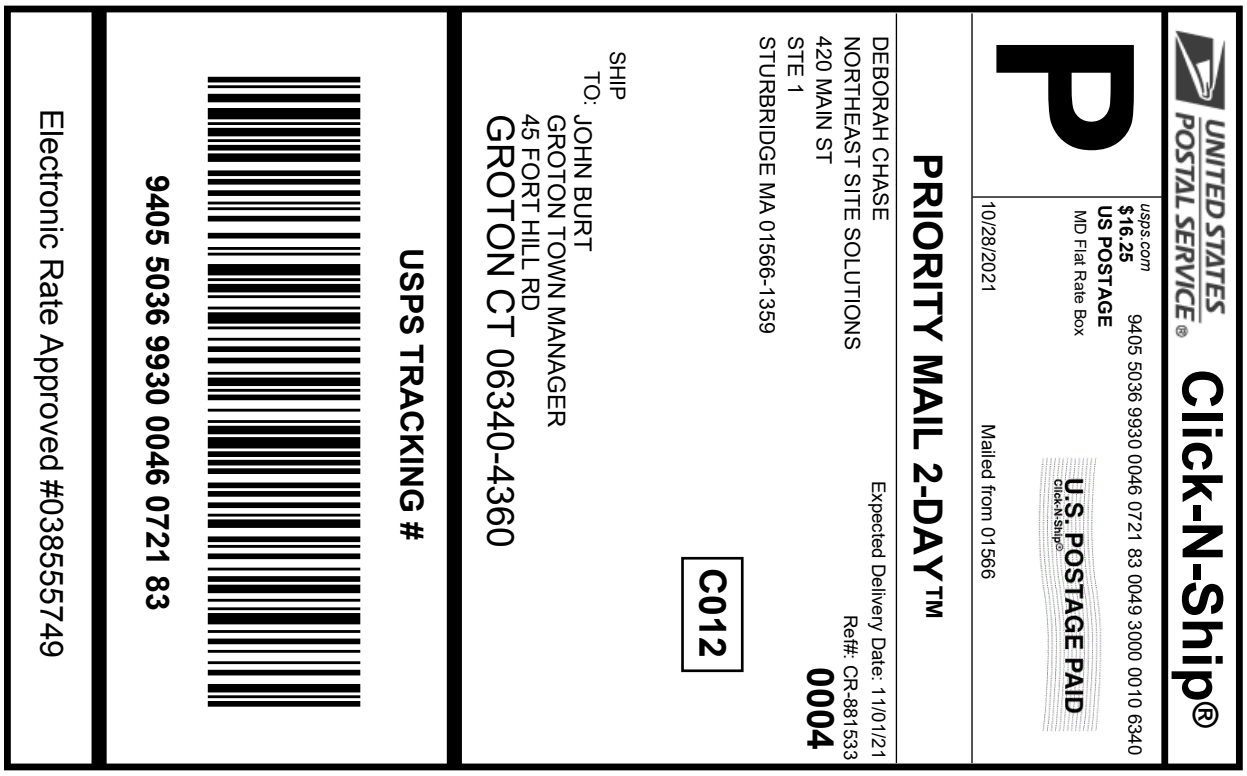
Waterford Consultants has provided the results of a computer-generated model in this MPE Site Compliance Report to show approximate dimensions of the site, and the model results is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Waterford Consultants' recommendations.

Waterford Consultants will not be responsible for any existing conditions or for any engineering or testing that might be required to discover whether adverse safety conditions exist. Because Waterford Consultants is not an expert in the field of mechanical engineering or building maintenance, this MPE Site Compliance Report must not be considered a structural or physical engineering report.

Waterford Consultants obtained information used in this MPE Site Compliance Report from sources that Waterford Consultants considers reliable and believes them to be true and correct. Waterford Consultants does not assume any responsibility for the accuracy of such items that were furnished by other parties.

Exhibit G

Recipient Mailings



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0046 0721 83

Trans. #:	547042612
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	11/01/2021

Priority Mail® Postage:	**$16.25**
Total:	**$16.25**

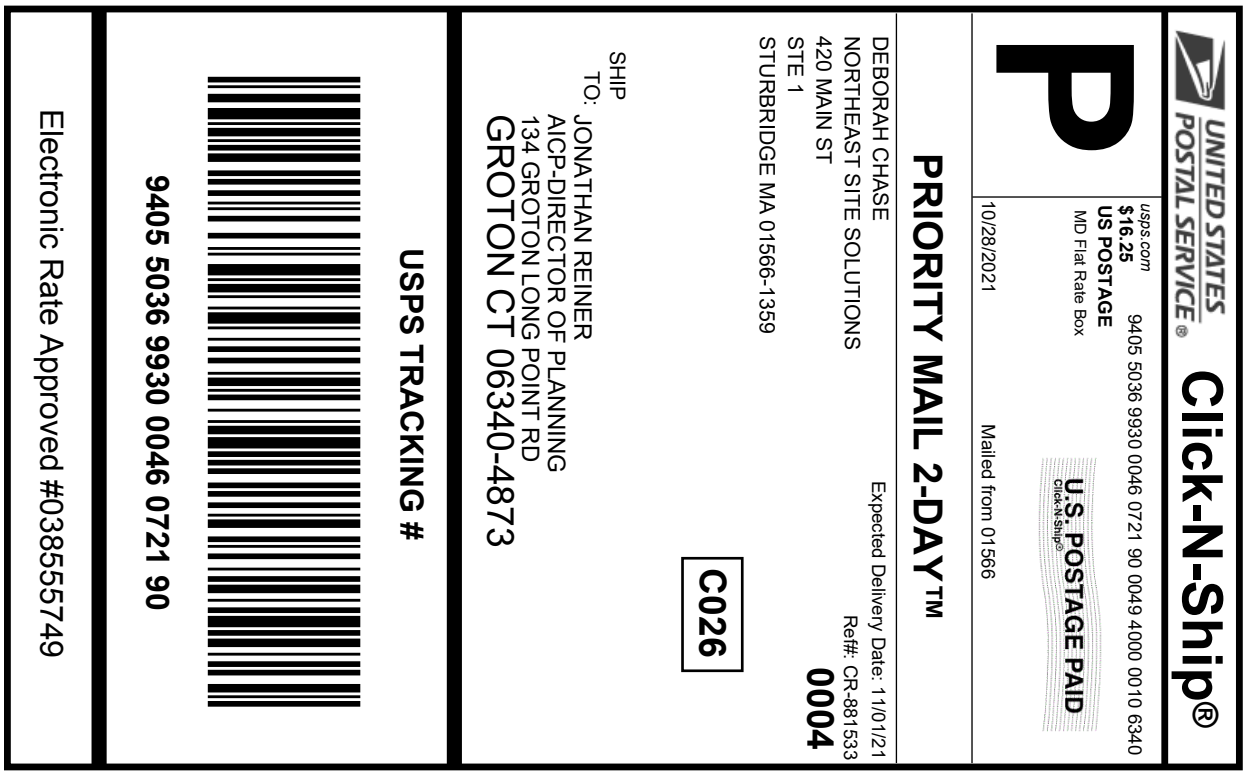
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-881533

To: JOHN BURT
GROTON TOWN MANAGER
45 FORT HILL RD
GROTON CT 06340-4360

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com



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Instructions

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0046 0721 90

Trans. #:	547042612
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	11/01/2021

Priority Mail® Postage:	**$16.25**
Total:	**$16.25**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-881533

To: JONATHAN REINER
AICP-DIRECTOR OF PLANNING
134 GROTON LONG POINT RD
GROTON CT 06340-4873

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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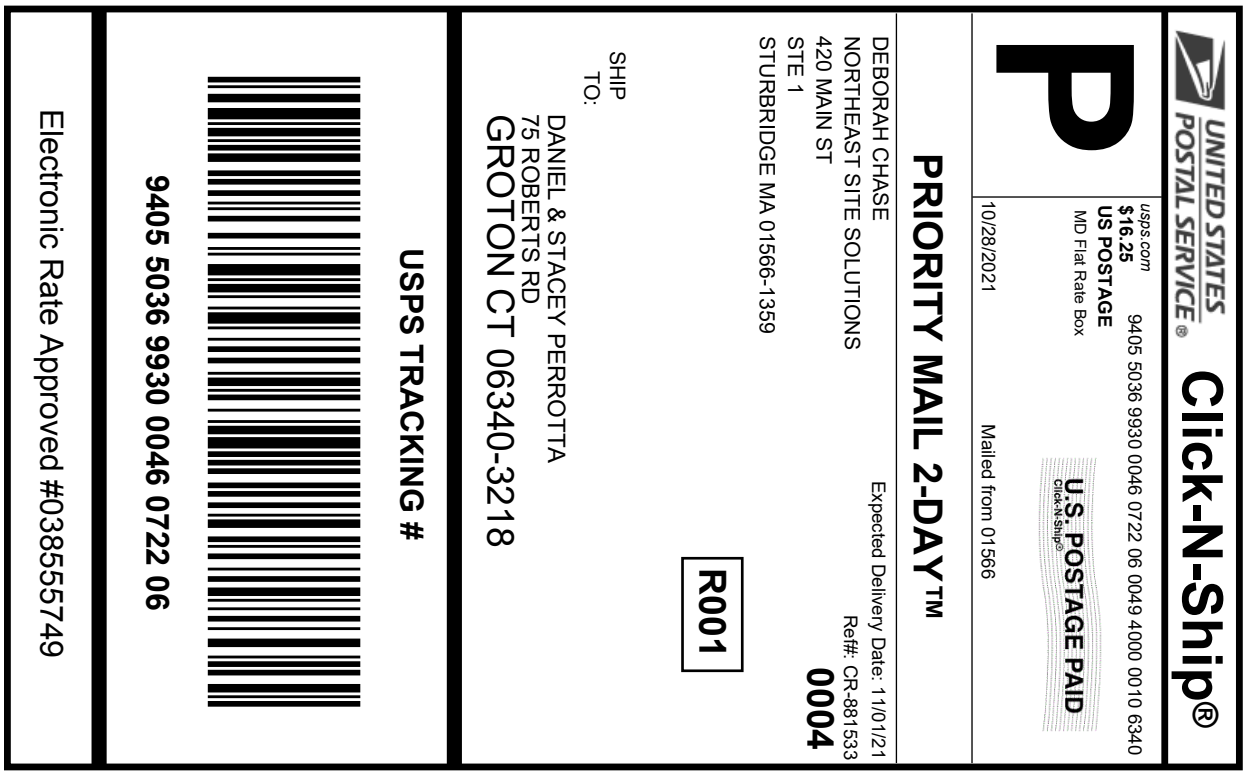
Check the status of your shipment on the USPS Tracking® page at usps.com



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5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0046 0722 06

Trans. #:	547042612
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	11/01/2021

Priority Mail® Postage:	**$16.25**
Total:	**$16.25**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-881533

To: DANIEL & STACEY PERROTTA
75 ROBERTS RD
GROTON CT 06340-3218

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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UNITED STATES POSTAL SERVICE®

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usps.com
$8.70
US POSTAGE
Flat Rate Env

U.S. POSTAGE PAID
Click-N-Ship®

10/28/2021 Mailed from 01566

P

PRIORITY MAIL 1-DAY™

Expected Delivery Date: 10/29/21
Ref#: CR-881533

0006

C006

DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

SHIP TO:

SARAH SNELL
1800 W PARK DR
WESTBOROUGH MA 01581-3926

USPS TRACKING #

9405 5036 9930 0046 0722 13

Electronic Rate Approved #038555749

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0046 0722 13

Trans. #:	547042612
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	10/29/2021

Priority Mail® Postage:	**$8.70**
Total:	**$8.70**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-881533

To: SARAH SNELL
1800 W PARK DR
WESTBOROUGH MA 01581-3926

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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8815533

UNITED STATES POSTAL SERVICE.

UNIONVILLE
24 MILL ST
UNIONVILLE, CT 06085-9998
(800)275-8777

10/29/2021 02:30 PM

Product	Qty	Unit Price	Price
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Prepaid Mail Groton, CT 06340 Weight: 1 lb 9.40 oz Acceptance Date: Fri 10/29/2021 Tracking #: 9405 5036 9930 0046 0722 06	1		$0.00
Prepaid Mail Groton, CT 06340 Weight: 1 lb 9.30 oz Acceptance Date: Fri 10/29/2021 Tracking #: 9405 5036 9930 0046 0721 90	1		$0.00
Prepaid Mail Groton, CT 06340 Weight: 1 lb 9.30 oz Acceptance Date: Fri 10/29/2021 Tracking #: 9405 5036 9930 0046 0721 83	1		$0.00
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