NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

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

June 17, 2022

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

RE: Exempt Modification Application
115 North Mountain Road, New Britain, CT 06053
Latitude: 41.676597
Longitude: -72.821425
Site #: 876331_Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 115 North Mountain Road, New Britain, CT 06053. Verizon Wireless currently maintains twelve (12) antennas at the 90-foot level of the existing 118-foot tower. The property is owned by March 17 LLC and the tower is owned by Crown Castle. Verizon now intends to replace nine (9) antennas. The new antennas would be installed at the 90-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 June 11, 2021.

Verizon Planned Modifications:

Remove: None

Remove and Replace:
(3) KATHREIN Antennas (REMOVE) – (3) COMMSCOPE NHH-65B-R2B Antennas (REPLACE)
(3) ANDREW Antennas (REMOVE) – (3) COMMSCOPE NHH-65B-R2B Antennas (REPLACE)
(3) ANDREW Antennas (REMOVE) – (3) SAMSUNG MT6407-77A Antennas (REPLACE)
(3) NOKIA B13 RRH (REMOVE) – (3) SAMSUNG B5/B13 -BR04C – RFV01U-D2A RRH (REPLACE)
(3) NOKIA B4 RRH (REMOVE) – (3) SAMSUNG B2/B66A -BR049 – RFV01U-D1A RRH (REPLACE)

Install New:
(1) Raycap RVZDC-6627-PF-48 OVP
(1) Hybrid Line 1-1/2"

Existing to Remain:
(3) ANTEL BXA-70063 Antennas
(3) ANTEL BXA-70040 Antennas
(7) Coax 1-5/8"

NORTHEAST SITE SOLUTIONS

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The facility was originally approved by the City of New Britain on December 5, 1996, 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 Mayor Erin Stewart and Stephen Schiller, City Planner for the City of New Britain. A copy is also being sent to the tower owner and property owner.

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

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

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

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

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

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

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

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

Sincerely,

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

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Attachments

Cc: Mayor Erin Stewart
City of New Britain
27 West Main Street
New Britain, CT 06051

Stephen Schiller, City Planner
City of New Britain
27 West Main Street
New Britain, CT 06051

March 17 LLC - Property Owner
PO Box 3040
One Liberty Square
New Britain, CT 06050

Crown Castle – Tower Owner

Exhibit A

Original Facility Approval

10:AM (ELECT) WAYNE GLEIFERT

083

B 85

CITY OF NEW BRITAIN
DEPARTMENT OF LICENSES, PERMITS
AND INSPECTIONS
TELEPHONE: 826-3383

BUILDING/ZONING PERMIT

DATE 11/22/96

COST 112,000.

FEE 1,780.

APPLICANT Sprint PCS TEL. NO. 294-5609

ADDRESS 9 Barnes Indusrial Rd, Wallingford, CT 06492

PERMIT FOR: Construct 120' Monopole Tower, per engineered drawings/specifications.

LOCATION North Mountain Rd, Lot C

BUILDING DIMENSIONS ____ FT. WIDE BY ____ FT. LONG AND ____ FT. IN HEIGHT

BUILDING TYPE ____ USE GROUP ____ LOT SIZE ____ ZONE ____

OWNER October 24 Corporation

ADDRESS

CERT. OF OCCUPANCY REQUIRED YES___ NO✓

AS-BUILT SURVEY REQUIRED YES___ NO✓

THE MATCHING APPLICATION IS PART AND PARCEL OF THIS BUILDING PERMIT.

12-5-96

BUILDING OFFICIAL

WNUK

WHERE APPLICABLE SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, PLUMBING AND MECHANICAL INSTALLATIONS.

APPLICANT'S COPY

MANDATORY INSPECTIONS REQUIRED

POST PERMIT FOR DURATION OF WORK

Exhibit B

Property Card

115 NORTH MOUNTAIN RD

Location	115 NORTH MOUNTAIN RD	**Mblu**	F2D/ 102/ / /
Acct#	66600115	**Owner**	MARCH 17 LLC
Assessment	$233,310	**Appraisal**	$333,300
PID	1134	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$234,100	$99,200	$333,300
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2017	$163,870	$69,440	$233,310

Owner of Record

Owner	MARCH 17 LLC	**Sale Price**	$900,000
Co-Owner		**Certificate**	
Address	PO BOX 3040 ONE LIBERTY SQUARE NEW BRITAIN , CT 06050	**Book & Page**	2021/980
		Sale Date	06/12/2019
		Instrument	17

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
MARCH 17 LLC	$900,000		2021/980	17	06/12/2019
OCTOBER TWENTY FOUR INC	$550,000	1	1826/0309	19	09/29/2011
OCTOBER TWENTY FOUR INC	$0		0733/0284		02/02/1978
GIUSEPPE CACCAMO SALVATORE	$0		0431/0424		01/01/1900
	$0		0224/0239		01/01/1900

Building Information

Building 1 : Section 1

Year Built:

Building Photo

Living Area: 0
Replacement Cost: $0
Building Percent Good:
Replacement Cost Less Depreciation: $0

Building Attributes	
Field	**Description**
Style	Outbuildings
Model	
Grade	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Central Heat Sys	
Heat Type	
AC Type	
Total Bedrooms	
Total Full Baths	
Total Half Baths	
Total Xtra Fixtrs	
Total Rooms	
Bath Style	
Kitchen Style	
Num Kitchens	
Whirlpool Tub	
Fireplaces	
Rec Room Finish	
Rec Room Qual	
Bsmt Garages	
Fireplaces	
Bldg Nbhd	
Fndtn Cndtn	
Basement	

(http://images.vgsi.com/photos/NewBritainCTPhotos//default.jpg)

Building Layout

Building Layout (ParcelSketch.ashx?pid=1134&bid=1593)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	4400
Description	Ind Ld De
Zone	TP
Neighborhood	101G
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	0.82
Depth	
Assessed Value	$69,440
Appraised Value	$99,200

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
PAV5	Conc Pad			256.00 S.F.	$3,100	1
FN3	Fence-6' Chain			150.00 L.F.	$1,500	1
CB3	PreCastConcCel			286.00 S.F.	$89,200	1
CB3	PreCastConcCel			360.00 S.F.	$140,300	1

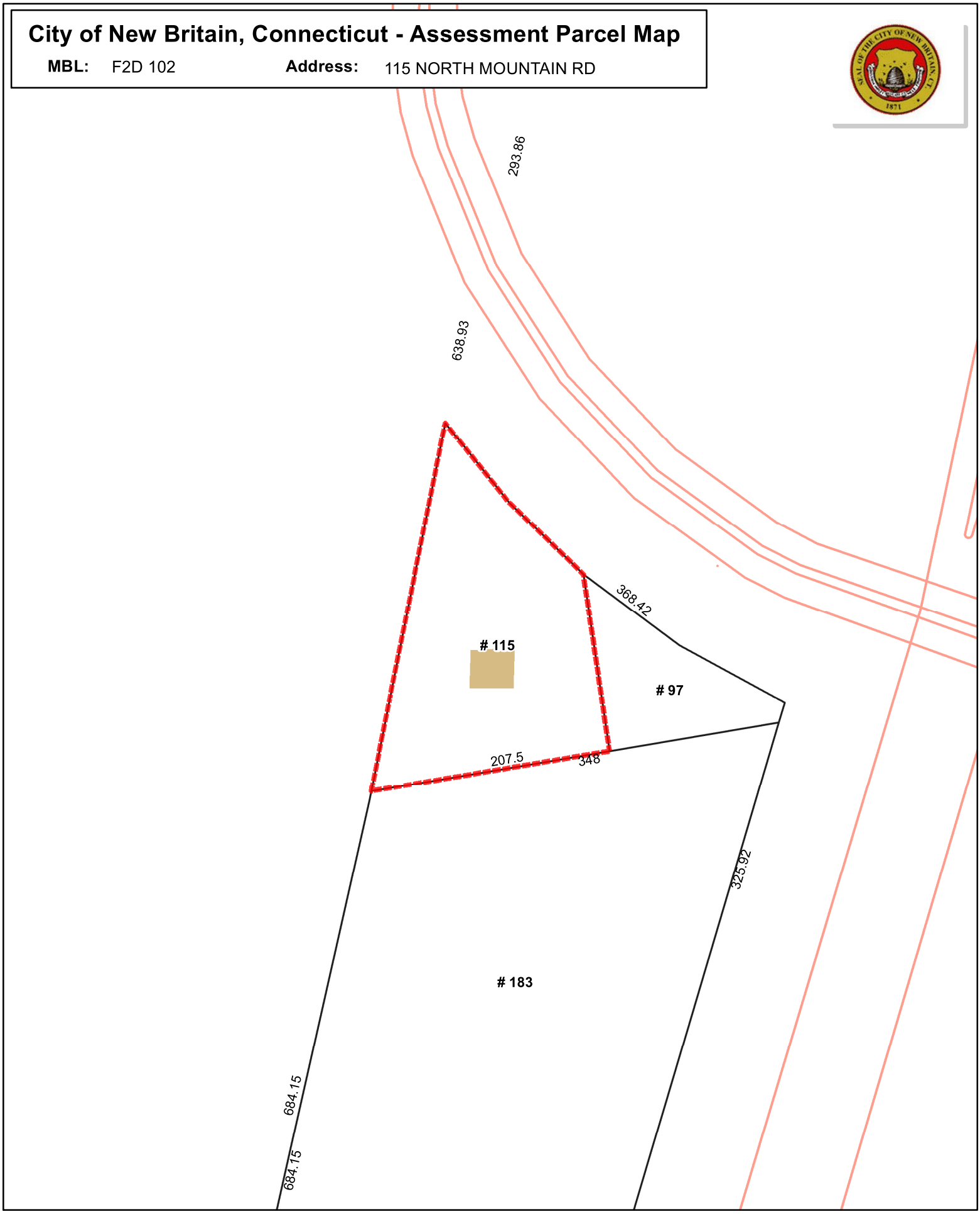
Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$234,100	$99,200	$333,300
2018	$234,100	$99,200	$333,300
2017	$234,100	$99,200	$333,300

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$163,870	$69,440	$233,310
2018	$163,870	$69,440	$233,310
2017	$163,870	$69,440	$233,310

City of New Britain, Connecticut - Assessment Parcel Map

MBL: F2D 102 **Address:** 115 NORTH MOUNTAIN RD



Approximate Scale:

1 inch = 100 feet

Disclaimer:
This map is for informational purposes only.
All information is subject to verification by any user.
The City of New Britain and its mapping contractors
assume no legal responsibility for the information contained herein.

Map Produced April 2020

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 674978
VERIZON SITE NAME: NEW BRITAIN NW CT
SITE TYPE: MONOPOLE
TOWER HEIGHT: 118'-0"

BUSINESS UNIT #: 876331
SITE ADDRESS: 115 NORTH MOUNTAIN RD NEW BRITAIN, CT 06053
COUNTY: HARTFORD
JURISDICTION: CITY OF NEW BRITAIN

VERIZON 5G L-SUB6-CARRIER ADD

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	NEW BRITAIN GRAVEL PIT
SITE ADDRESS:	115 NORTH MOUNTAIN RD NEW BRITAIN, CT 06053
COUNTY:	HARTFORD
MAP/PARCEL #:	F2D-102
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.676589°
LONGITUDE:	-72.821414°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	----
CURRENT ZONING:	TP-TECHNOLOGY PARK
JURISDICTION:	CITY OF NEW BRITAIN
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	MARCH 17 LCC P.O BOX 3040 NEW BRITAIN, CT 06050
TOWER OWNER:	CROWN CASTLE MU LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO (800) 286-2000
TELCO PROVIDER:	VERIZON (800) 837-4966

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS marvin.phillips@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1505 WESTLAKE AVENUE NORTH, SUITE 800 SEATTLE, WA 98109 PAUL PEDICONE - PROJECT MANAGER PAUL.PEDICONE@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM
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	COLOR CODE MATRIX
C-7	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ATTACHED	MOUNT MODIFICATION DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. 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	16232009
VzW LOCATION CODE (PSLC)	535831

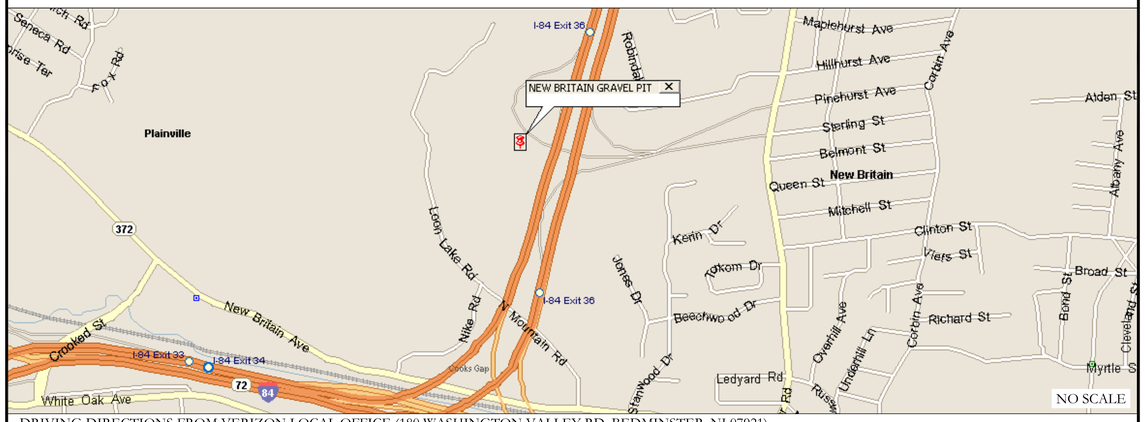
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	Y

VzW APPROVED SMART KIT VENDORS

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

LOCATION MAP



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (180 WASHINGTON VALLEY RD, BEDMINSTER, NJ 07921)
HEAD NORTHWEST. SLIGHT LEFT. TURN RIGHT ONTO US-202 N. TURN RIGHT ONTO SCHLEY MOUNTAIN RD. MERGE WITH I-287 N. ENTERING NEW YORK. TAKE THE I-87 EXIT TOWARD NEW YORK CITY. MERGE WITH I-287 E.USE THE RIGHT LANE TO KEEP RIGHT AT THE Y JUNCTION, CONTINUE ON I-87 S AND FOLLOW SIGNS FOR NEW YORK CITY. TAKE EXIT 8A TOWARD SAW MILL RIVER PKWY N. KEEP LEFT, FOLLOW SIGNS FOR SAW MILL RIVER PKWY AND MERGE ONTO SAW MILL RIVER PKWY N. MERGE WITH SAW MILL RIVER PKWY N. USE ANY LANE TO MERGE WITH I-684 N VIA THE RAMP TO BREWSTER. MERGE WITH I-684 N. TAKE EXIT 9E TO MERGE WITH I-84 E TOWARD DANBURY. ENTERING CONNECTICUT. KEEP RIGHT TO STAY ON I-84 E. KEEP RIGHT TO STAY ON I-84 E. TAKE EXIT 37 FOR FIENEMANN RD TOWARD US-6 W. USE THE LEFT LANE TO TURN LEFT ONTO FIENEMANN RD. TURN LEFT ONTO THE I-84 W RAMP TO WATERBURY. MERGE WITH I-84. TAKE EXIT 36. DESTINATION WILL BE ON THE RIGHT.

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 SBC
MECHANICAL	2018 CT SBC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	MASER CONSULTING (MOUNT MOD)
DATED:	6/11/2021
RFDS REVISION:	
DATED:	T.B.D.
ORDER ID:	616729
REVISION:	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 (9) ANTENNAS
- REMOVE (6) RRHs
- REMOVE (6) COAX
- REMOVE (1) OVP
- INSTALL (9) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (1) OVP
- INSTALL (1) HYBRID CABLE
- INSTALL (3) SBS-1-2 MOUNTS
- INSTALL MOUNT MODIFICATIONS PER REQUESTED MOUNT ANALYSIS AND MOUNT MODIFICATIONS DRAWINGS DONE BY MASER CONSULTING DATED JUNE 11, 2021

GROUND SCOPE OF WORK:
- NONE

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1505 WESTLAKE AVENUE NORTH, SUITE 800
SEATTLE, WA 98109

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
674978

BU #: **876331**
NEW BRITAIN GRAVEL PIT

115 NORTH MOUNTAIN RD
NEW BRITAIN, CT 06053

EXISTING 118'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	04/29/2021	IJ	PRELIMINARY	---
0	06/18/2021	MJR	CONSTRUCTION	---
1	08/10/2021	JT	PER COMMENTS	---
2	6/15/22	DAS	CONSTRUCTION	CV

STATE OF CONNECTICUT
DAVID A. SCHIAVONE
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/15/22

B&T ENGINEERING, INC.

SHEET NUMBER: T-1

REVISION: 2

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.

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

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).

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

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BEDMINSTER, NJ 07921

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SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
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VERIZON SITE NUMBER:
674978

BU #: **876331**
NEW BRITAIN GRAVEL PIT

115 NORTH MOUNTAIN RD
NEW BRITAIN, CT 06053

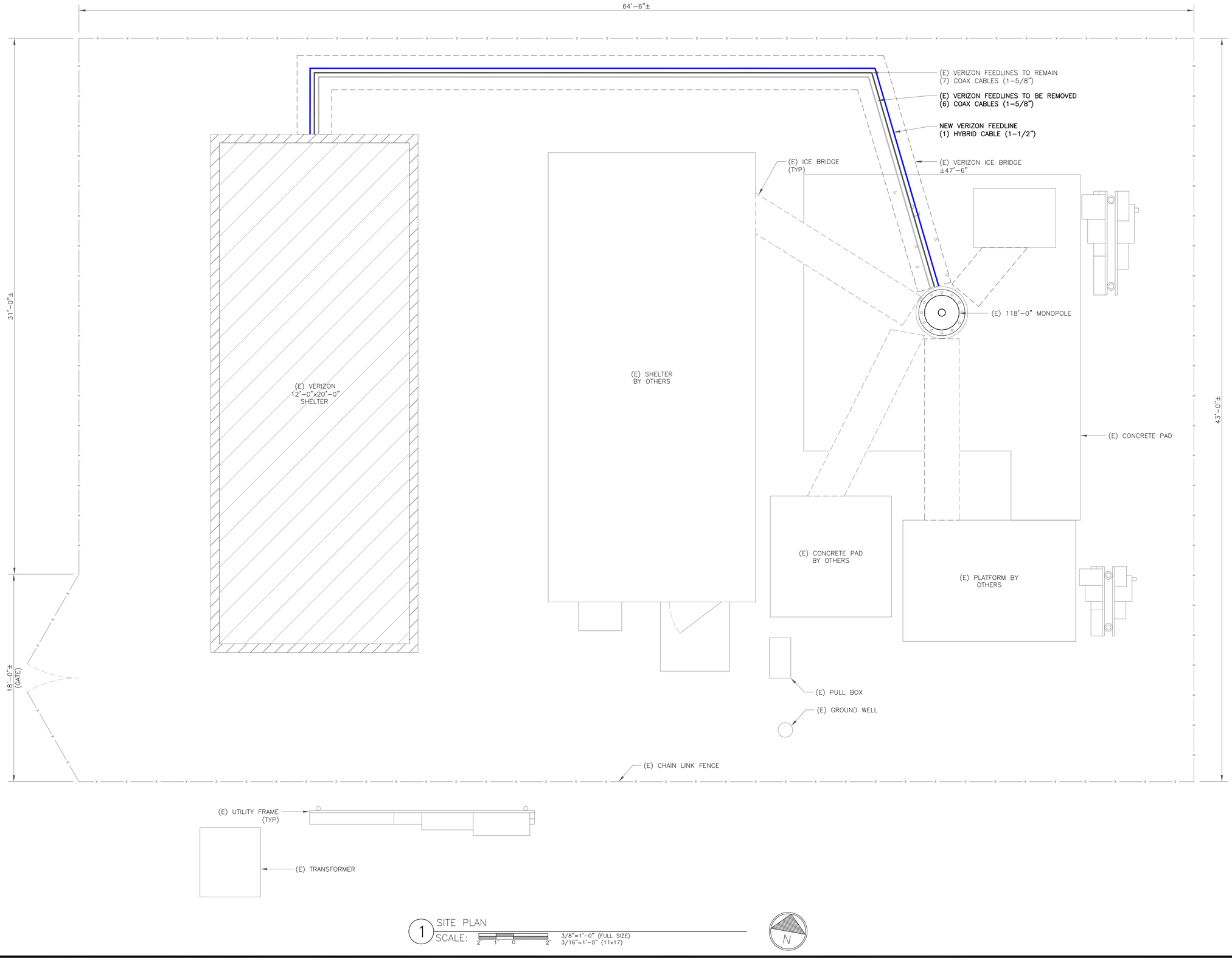
EXISTING 118'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	04/29/2021	IJ	PRELIMINARY	---
0	06/18/2021	MJR	CONSTRUCTION	---
1	08/10/2021	JT	PER COMMENTS	---
2	6/15/22	DAS	CONSTRUCTION	CV

B&T ENGINEERING, INC.

SHEET NUMBER: **T-2**
REVISION: **2**



1 SITE PLAN

SCALE: 2" 1" 0 2" 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

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180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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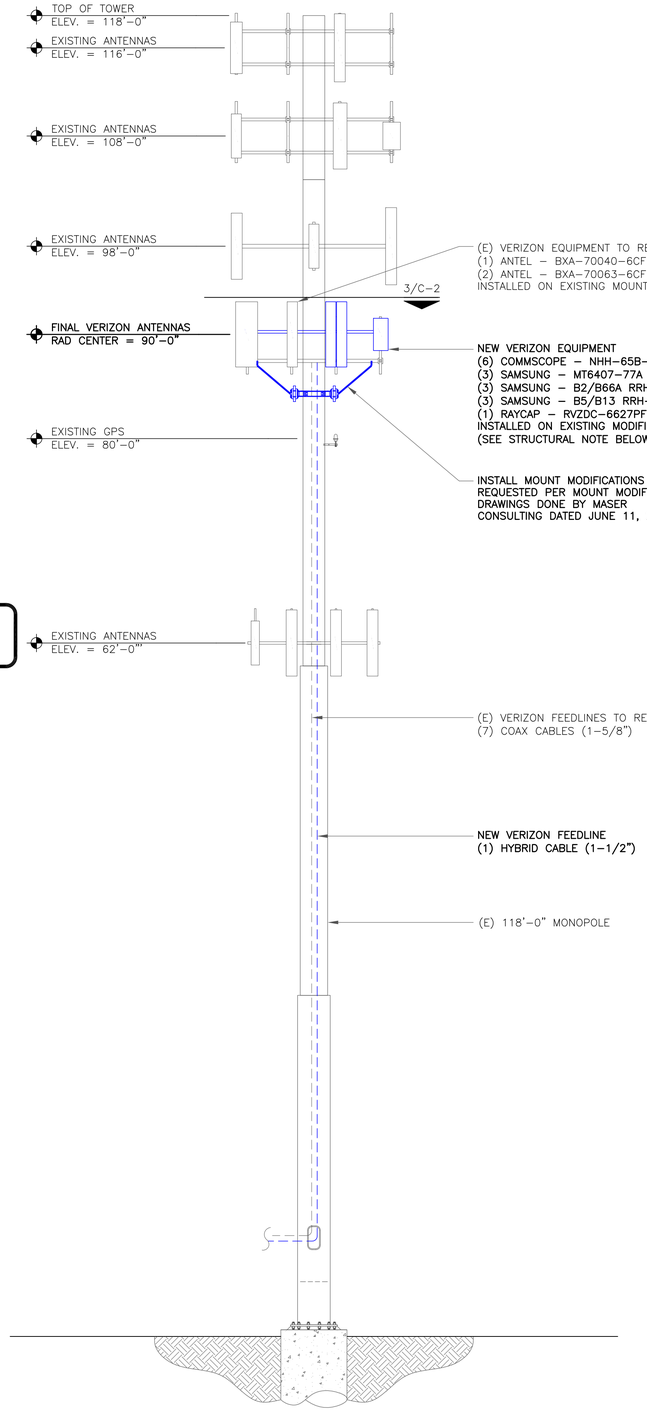
B&T ENGINEERING, INC.

SHEET NUMBER: C-1

REVISION: 2



1 TOWER ELEVATION
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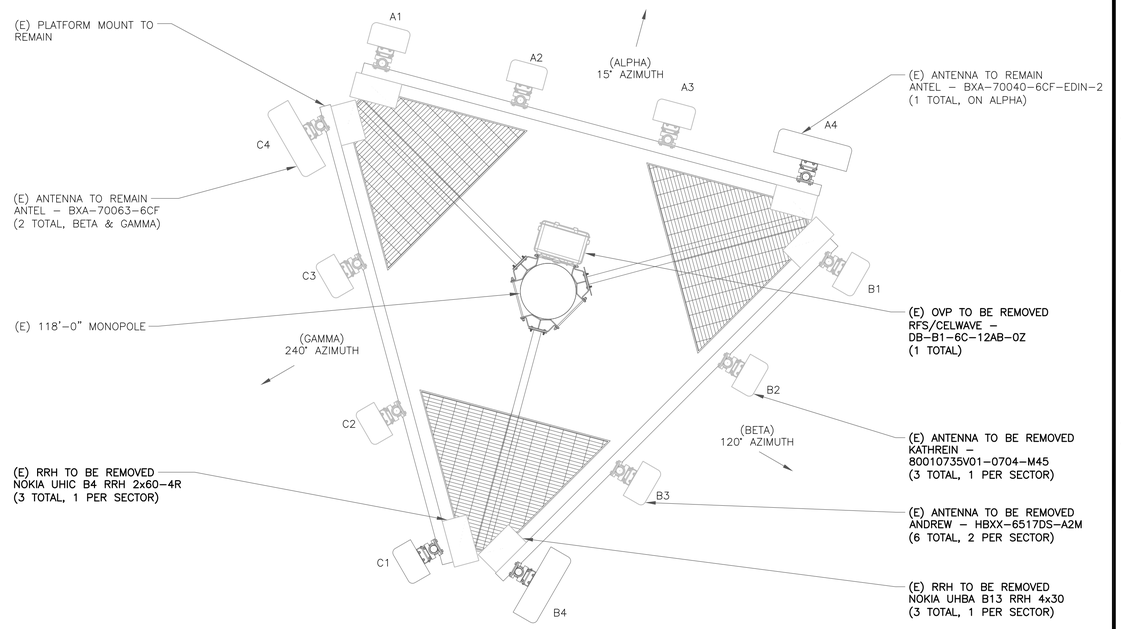
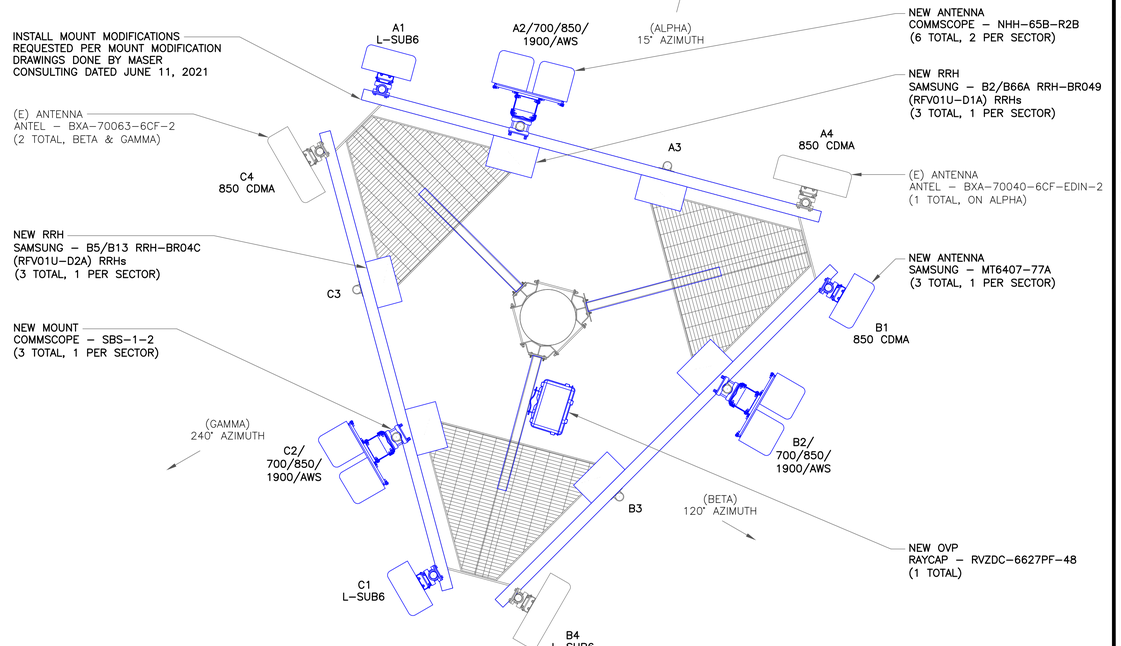


2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

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B&T ENGINEERING, INC.

SHEET NUMBER: C-2

REVISION: 2

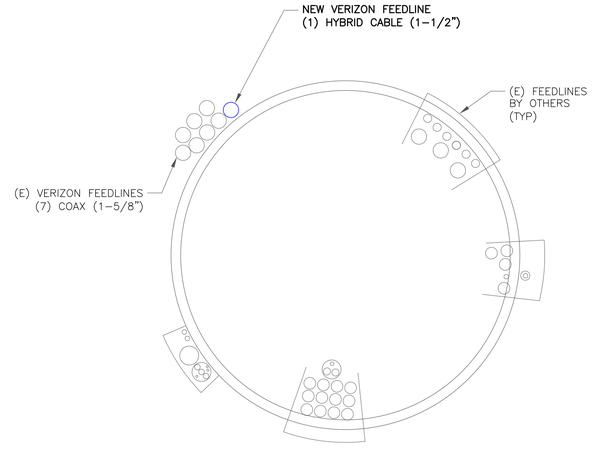
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	SAMSUNG	MT6407-77A	90'-0"	15°	0°	3°	–	–
A2	NEW	COMMSCOPE	NHH-65B-R2B	90'-0"	15°	3°	6°/6°	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A)
A3	NEW	COMMSCOPE	NHH-65B-R2B	90'-0"	15°	0°	2°/2°	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A)
A4	EXISTING	ANTEL	BXA-70040-6CF-EDIN-2	90'-0"	15°	3°	0°	–	–
B1	NEW	SAMSUNG	MT6407-77A	90'-0"	120°	0°	3°	–	–
B2	NEW	COMMSCOPE	NHH-65B-R2B	90'-0"	120°	1°	2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A)
B3	NEW	COMMSCOPE	NHH-65B-R2B	90'-0"	120°	0°	3°/3°	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A)
B4	EXISTING	ANTEL	BXA-70063-6CF-2	90'-0"	120°	2°	4°	RAYCAP	(1) RVZDC-6627PF-48
C1	NEW	SAMSUNG	MT6407-77A	90'-0"	240°	0°	3°	–	–
C2	NEW	COMMSCOPE	NHH-65B-R2B	90'-0"	240°	2°	2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A)
C3	NEW	COMMSCOPE	NHH-65B-R2B	90'-0"	240°	0°	2°/2°	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A)
C4	EXISTING	ANTEL	BXA-70063-6CF-2	90'-0"	240°	2°	2°	–	–

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	140'-0"±	7
NEW	HYBRID	1-1/2"	140'-0"±	1
TOTAL CABLE QTY:				8



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
674978

BU #: **876331**
NEW BRITAIN GRAVEL PIT

115 NORTH MOUNTAIN RD
NEW BRITAIN, CT 06053

EXISTING 118'-0" MONOPOLE

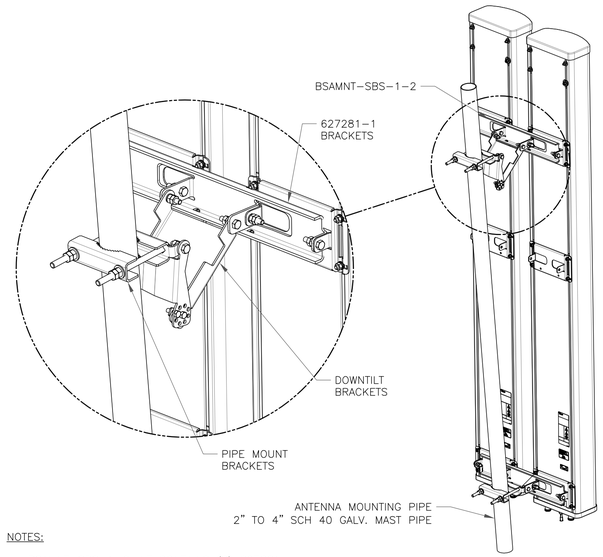
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	04/29/2021	IJ	PRELIMINARY	---
0	06/18/2021	MJR	CONSTRUCTION	---
1	08/10/2021	JT	PER COMMENTS	---
2	6/15/22	DAS	CONSTRUCTION	CV

STATE OF CONNECTICUT
CHAD
VANDERGRAFT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/15/22

B&T ENGINEERING, INC.

SHEET NUMBER: C-3
REVISION: 2

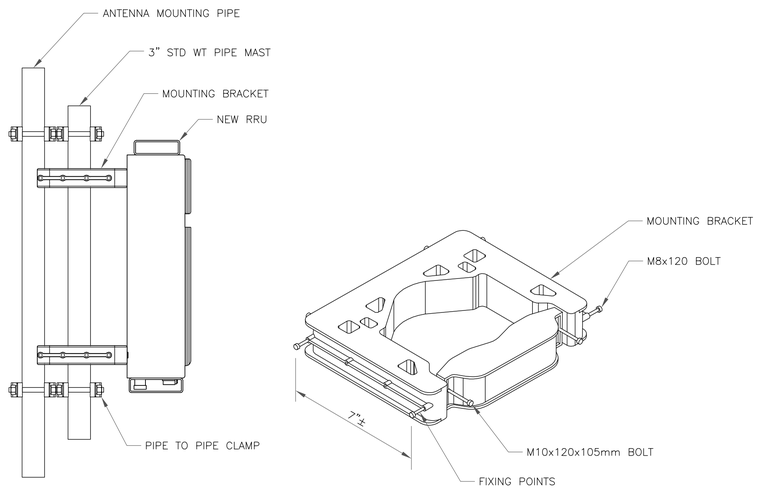


NOTES:

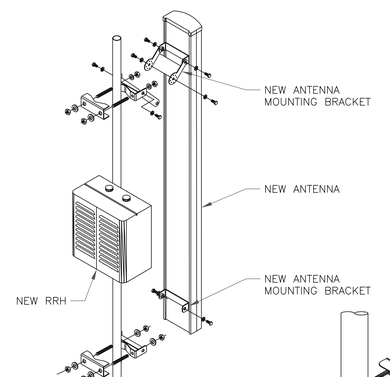
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

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:
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BU #: **876331**
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NEW BRITAIN, CT 06053

EXISTING 118'-0" MONOPOLE

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2	6/15/22	DAS	CONSTRUCTION	CV

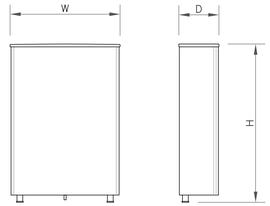
B&T ENGINEERING, INC.

SHEET NUMBER: C-4

REVISION: 2

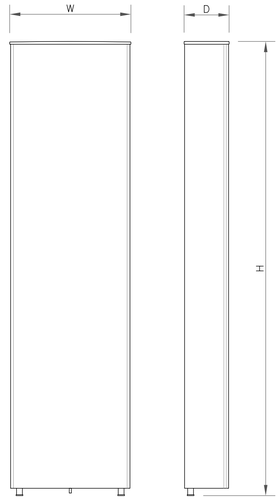
FIBER NAMING CONVENTION	
Technology	**(Equipment-Sector-OPTI #)**
5GmmW L0	5GmmW-A-0
CBRS L0	CBRS-A-0
CBRS L1	CBRS-A-1
LAA L0	LAA-A-0
High Band Dual Band L0	HB-A-0
High Band Dual Band L1	HB-A-1
Low Band Dual Band L0	LB-A-0
C-Band MT6407-77A L0	CBand-A-0
C-Band MT6407-77A L1	CBand-A-1
C-Band MT6407-77A L2	CBand-A-2
Rev. 12/8/2021	

1 FIBER NAMING CONVENTION
SCALE: NOT TO SCALE



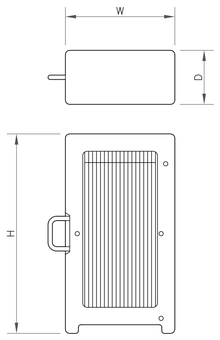
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



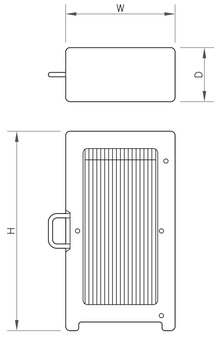
ANTENNA SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	NHH-65B-R2B
WIDTH	11.90"
DEPTH	7.10"
HEIGHT	72.0"
WEIGHT	43.70 LBS

3 ANTENNA SPECS
SCALE: NOT TO SCALE



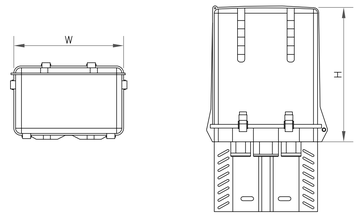
RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	B2/B66A RRH-BR049 (RFV01U-D1A)
WIDTH	15.0"
DEPTH	10.0"
HEIGHT	15.0"
WEIGHT	84.40 LBS

4 RRU SPECIFICATIONS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	B5/B13 RRH-BR04C (RFV01U-D2A)
WIDTH	15.0"
DEPTH	8.10"
HEIGHT	15.0"
WEIGHT	70.30 LBS

5 RRU SPECIFICATIONS
SCALE: NOT TO SCALE



OVP SPECS	
MANUFACTURER	RAYCAP
MODEL #	RVZDC-6627-PF-48
WIDTH	15.73"
DEPTH	10.31"
HEIGHT	28.93"
WEIGHT	32.0 LBS

6 OVP SPECS
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
674978

BU #: **876331**
NEW BRITAIN GRAVEL PIT

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EXISTING 118'-0" MONOPOLE

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STATE OF CONNECTICUT
CHRISTOPHER J. VOUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/15/22

B&T ENGINEERING, INC.

SHEET NUMBER: C-5
REVISION: 2

COLOR CODE MATRIX

Azimuth (1) Alpha					
Cell (850 CDMA)	Red				
PCS2 (1900 LTE)	Pink	Red	Pink		
700 LTE	Lt. Green	Red	Lt. Green		
850 LTE	Purple	Red	Purple		
2100 LTE	Orange	Red	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Red	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Red	Lt. Green	Purple
5G 28GHz	Brown	Red	Brown		
5G 39GHz	Blue	Red	Blue		
LAA	Gray	Red	Gray		
CBRS	White	Red	White		
L-Sub6 (C-Band)	Red	Red	Red		

Azimuth (2) Beta					
Cell (850 CDMA)	Blue				
PCS2 (1900 LTE)	Pink	Blue	Pink		
700 LTE	Lt. Green	Blue	Lt. Green		
850 LTE	Purple	Blue	Purple		
2100 LTE	Orange	Blue	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple
5G 28GHz	Brown	Blue	Brown		
5G 39GHz	Blue	Blue	Blue		
LAA	Gray	Blue	Gray		
CBRS	White	Blue	White		
L-Sub6 (C-Band)	Red	Blue	Red		

Azimuth (3) Gamma					
Cell (850 CDMA)	Yellow				
PCS2 (1900 LTE)	Pink	Yellow	Pink		
700 LTE	Lt. Green	Yellow	Lt. Green		
850 LTE	Purple	Yellow	Purple		
2100 LTE	Orange	Yellow	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Yellow	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Yellow	Lt. Green	Purple
5G 28GHz	Brown	Yellow	Brown		
5G 39GHz	Blue	Yellow	Blue		
LAA	Gray	Yellow	Gray		
CBRS	White	Yellow	White		
L-Sub6 (C-Band)	Red	Yellow	Red		

COLOR CODE MATRIX

Azimuth (4) Delta					
Cell (850 CDMA)	Orange				
PCS2 (1900 LTE)	Pink	Orange	Pink		
700 LTE	Lt. Green	Orange	Lt. Green		
850 LTE	Purple	Orange	Purple		
2100 LTE	Orange	Orange	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Orange	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Orange	Lt. Green	Purple
5G 28GHz	Brown	Orange	Brown		
5G 39GHz	Blue	Orange	Blue		
LAA	Gray	Orange	Gray		
CBRS	White	Orange	White		
L-Sub6 (C-Band)	Red	Orange	Red		

Azimuth (5) Epsilon					
Cell (850 CDMA)	White				
PCS2 (1900 LTE)	Pink	White	Pink		
700 LTE	Lt. Green	White	Lt. Green		
850 LTE	Purple	White	Purple		
2100 LTE	Orange	White	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	White	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	White	Lt. Green	Purple
5G 28GHz	Brown	White	Brown		
5G 39GHz	Blue	White	Blue		
LAA	Gray	White	Gray		
CBRS	White	White	White		
L-Sub6 (C-Band)	Red	White	Red		

Azimuth (6) Zeta					
Cell (850 CDMA)	Gray				
PCS2 (1900 LTE)	Pink	Gray	Pink		
700 LTE	Lt. Green	Gray	Lt. Green		
850 LTE	Purple	Gray	Purple		
2100 LTE	Orange	Gray	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple
5G 28GHz	Brown	Gray	Brown		
5G 39GHz	Blue	Gray	Blue		
LAA	Gray	Gray	Gray		
CBRS	White	Gray	White		
L-Sub6 (C-Band)	Red	Gray	Red		

1 COLOR CODE MATRIX
SCALE: NOT TO SCALE

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1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
674978

BU #: **876331**
NEW BRITAIN GRAVEL PIT

115 NORTH MOUNTAIN RD
NEW BRITAIN, CT 06053

EXISTING 118'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	04/29/2021	IJ	PRELIMINARY	---
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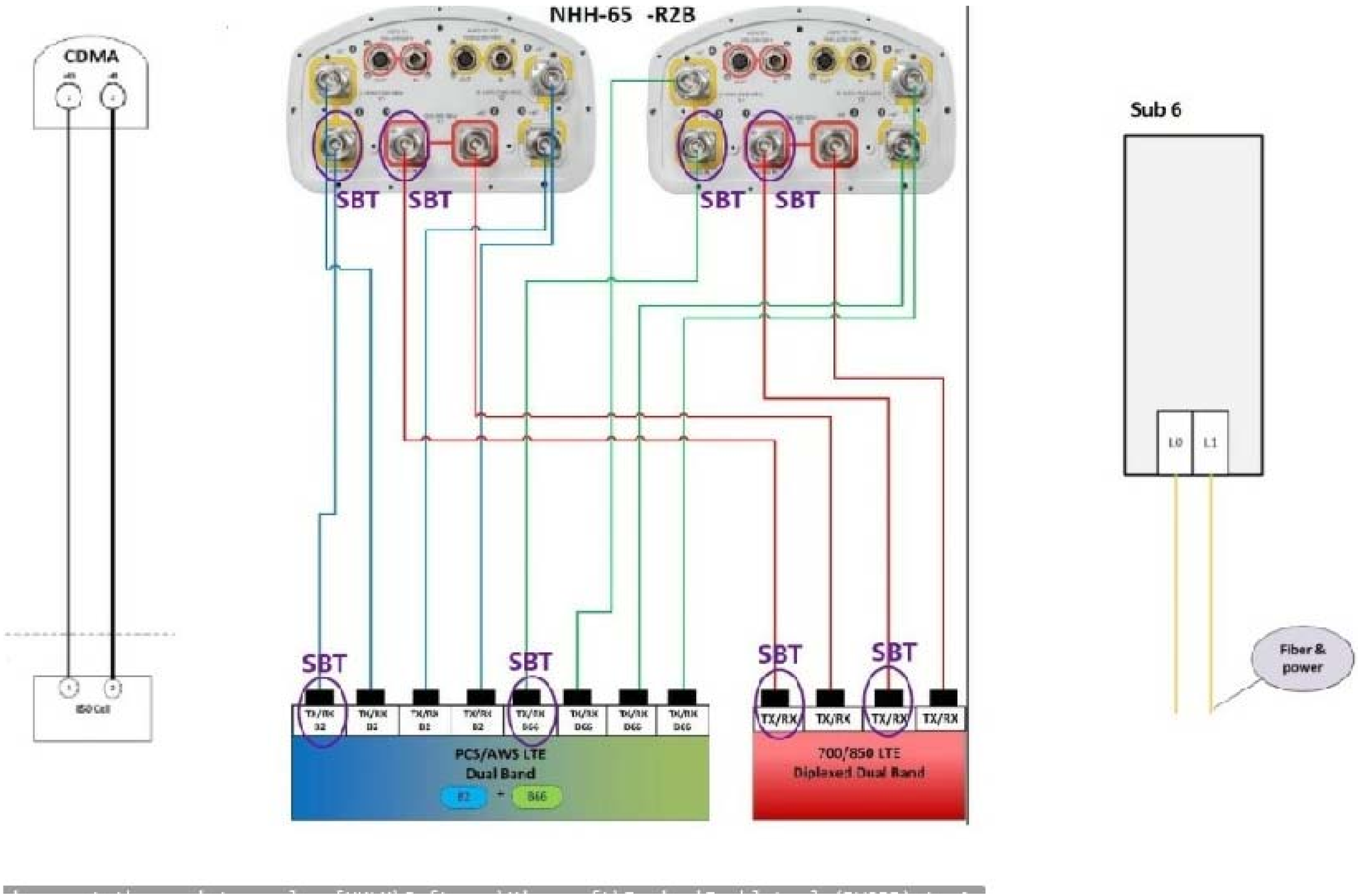
2	6/15/22	DAS	CONSTRUCTION	CV

B&T ENGINEERING, INC.

SHEET NUMBER: C-6
REVISION: 2



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
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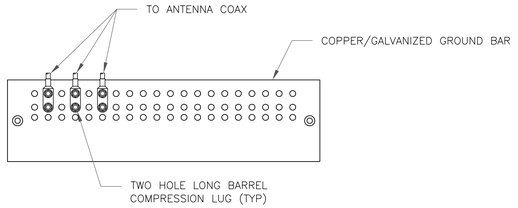
2	6/15/22	DAS	CONSTRUCTION	CV

B&T ENGINEERING, INC.

SHEET NUMBER: C-7

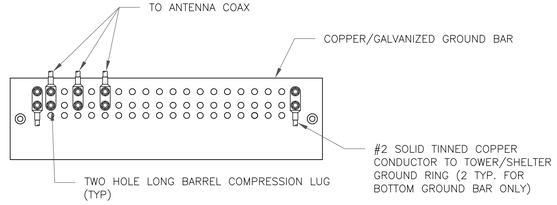
REVISION: 2



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.

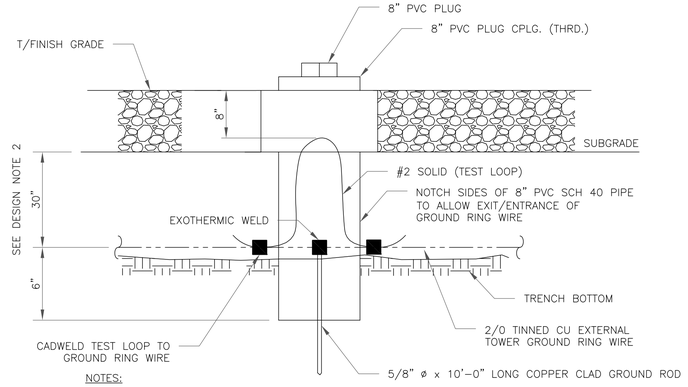
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

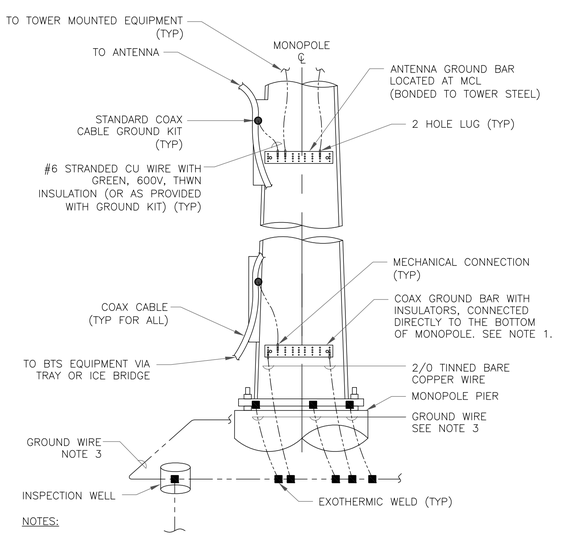
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



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)

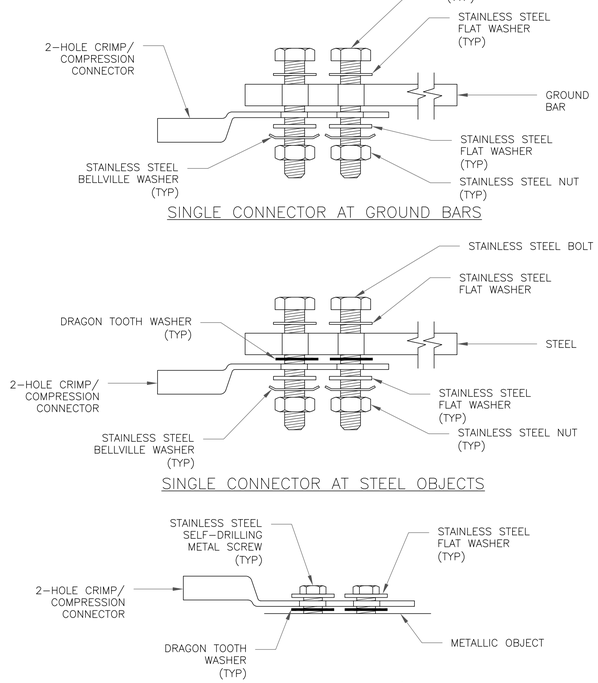
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



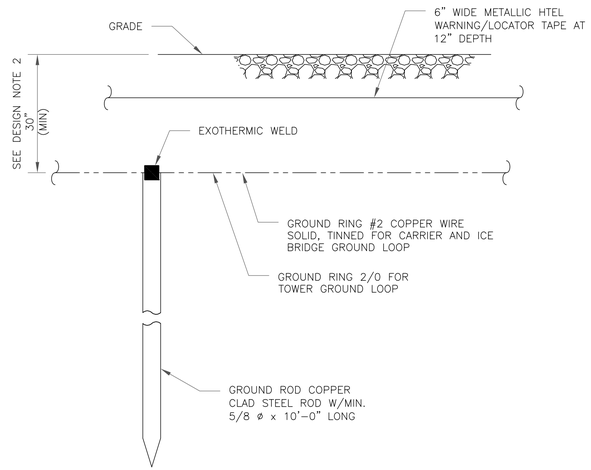
NOTES:

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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VERIZON SITE NUMBER:
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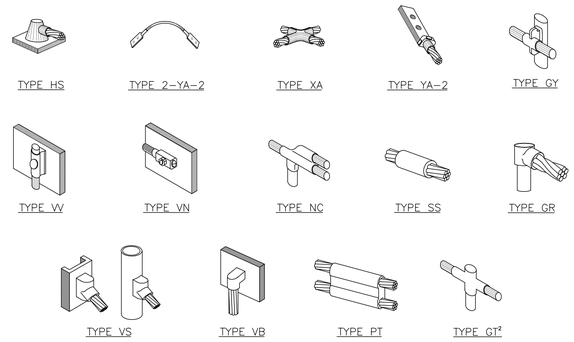
2	6/15/22	DAS	CONSTRUCTION	CV

B&T ENGINEERING, INC.

SHEET NUMBER: G-1
REVISION: 2

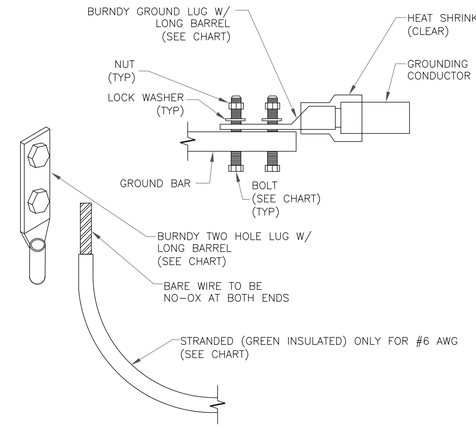


NOTE:

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

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

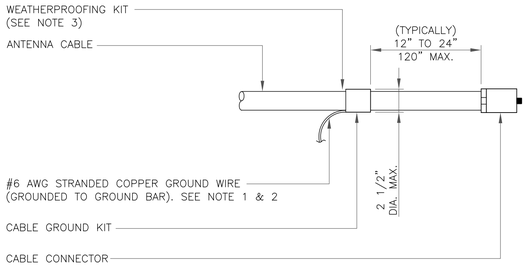
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



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.

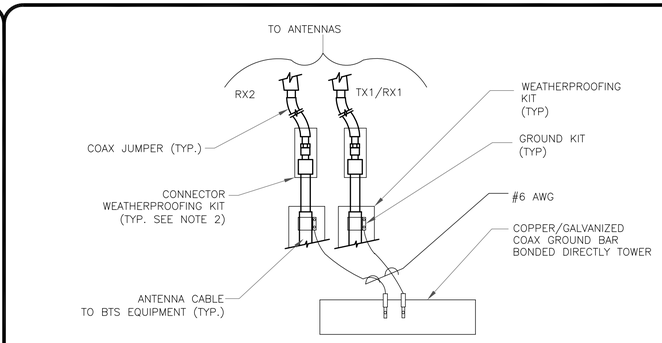
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



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.

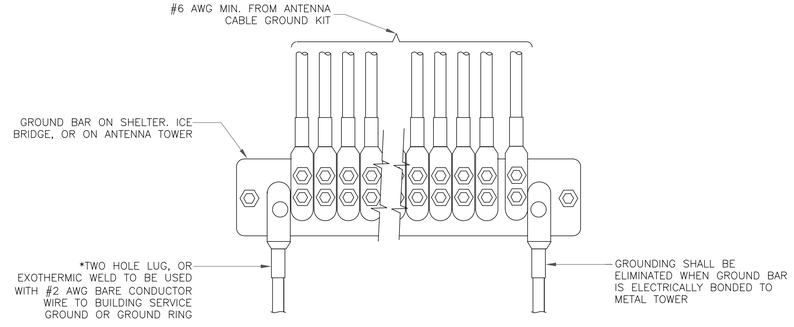
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



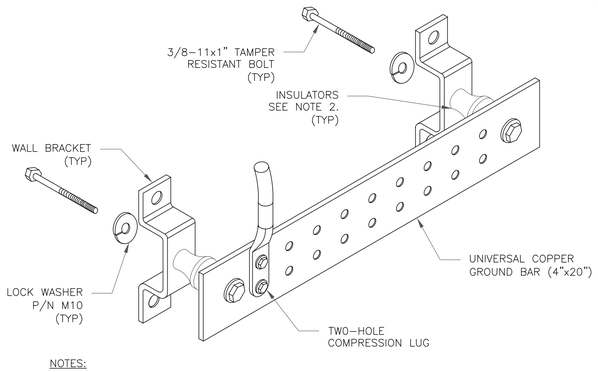
NOTES:

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



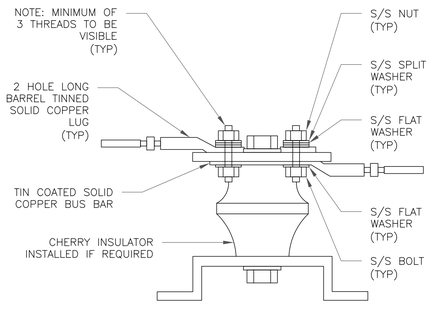
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



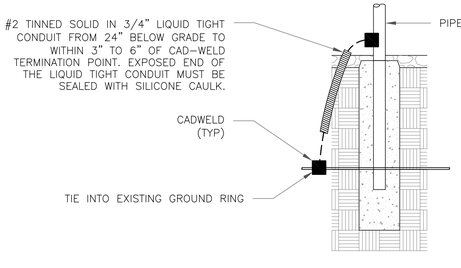
NOTES:

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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180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1505 WESTLAKE AVENUE NORTH, SUITE 800
SEATTLE, WA 98109

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
674978

BU #: **876331**
NEW BRITAIN GRAVEL PIT

115 NORTH MOUNTAIN RD
NEW BRITAIN, CT 06053

EXISTING 118'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	04/29/2021	IJ	PRELIMINARY	---
0	06/18/2021	MJR	CONSTRUCTION	---
1	08/10/2021	JT	PER COMMENTS	---
2	6/15/22	DAS	CONSTRUCTION	CV

B&T ENGINEERING, INC.

SHEET NUMBER: G-2
REVISION: 2

PROJECT NOTES

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

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MOUNT MODIFICATION DRAWINGS
EXISTING 12.58' PLATFORM

SITE NAME: NEW BRITAIN NW CT
SITE NUMBER: 535831

115 NORTH MOUNTAIN ROAD
NEW BRITAIN, CT 06053
HARTFORD COUNTY

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 41.6765900° N
LONGITUDE: 72.8211414° W
JURISDICTION: HARTFORD COUNTY

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

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

PROJECT MANAGER

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

SHEET INDEX

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10070204
VZW LOCATION CODE (PSLC): 535831
FUZE ID: 16232009

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT
SMART TOOL PROJECT #: 10044596
MASER CONSULTING PROJECT #: 21777239A
ANALYSIS DATE: 5/10/2021

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SCALE: AS SHOWN
JOB NUMBER: 21777239A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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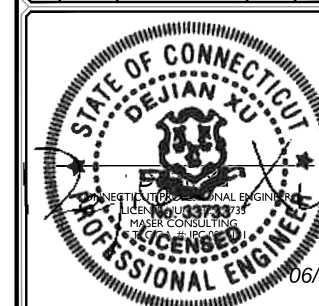
0	6/11/2021	ISSUED FOR CONSTRUCTION	JRF	PMA



06/11/2021

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

SITE NAME:

NEW BRITAIN NW CT
535831

115 NORTH MOUNTAIN ROAD
NEW BRITAIN, CT 06053
HARTFORD COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY	
3		VZWSMART-MSK2	CROSSOVER PLATE	

OTHER REQUIRED PARTS

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

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

VZWSMART KITS - APPROVED VENDORS

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

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

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SCALE : AS SHOWN

JOB NUMBER : 21777239A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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0	6/11/2021	ISSUED FOR CONSTRUCTION	JRF	PMA

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED · PROFESSIONAL ENGINEER

06/11/2021

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SITE NAME:

NEW BRITAIN NW CT
535831

115 NORTH MOUNTAIN ROAD
NEW BRITAIN, CT 06053
HARTFORD COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE : BILL OF MATERIALS

SHEET NUMBER : S-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

GENERAL NOTES

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

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 117 MPH

b. EXPOSURE CATEGORY B

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 350.25'

ICE LOADS

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

b. ICE THICKNESS = 1.50 IN

SEISMIC LOADS

a. SEISMIC DESIGN CATEGORY B

b. SHORT TERM MCER GROUND MOTION, S_S = .192

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

STRUCTURAL STEEL

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

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

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

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STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED
PROFESSIONAL ENGINEER
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535831

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MT. LAUREL OFFICE
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Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE : MODIFICATION NOTES

SHEET NUMBER : S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

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

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

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

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

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

MI INSPECTOR

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

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

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

GENERAL CONTRACTOR

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

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

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

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

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

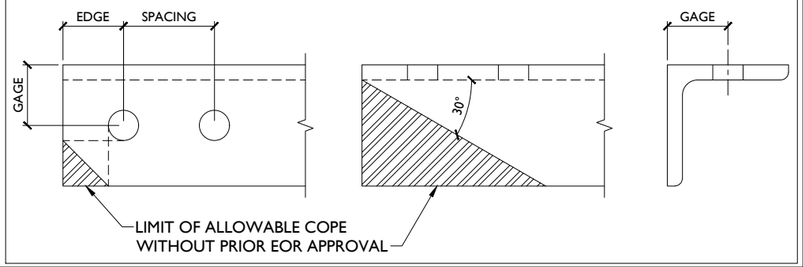
REQUIRED PHOTOS

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

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

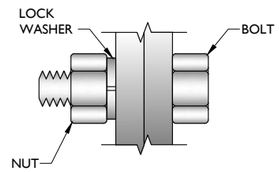
PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING



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

WORKABLE GAGES (IN.)	
LEG	**GAGE**
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

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

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DEJIAN XU
LICENSED PROFESSIONAL ENGINEER
LICENSE NO. 33737
MASER CONSULTING
LICENSED PROFESSIONAL ENGINEER
06/11/2021

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NEW BRITAIN, CT 06053
HARTFORD COUNTY

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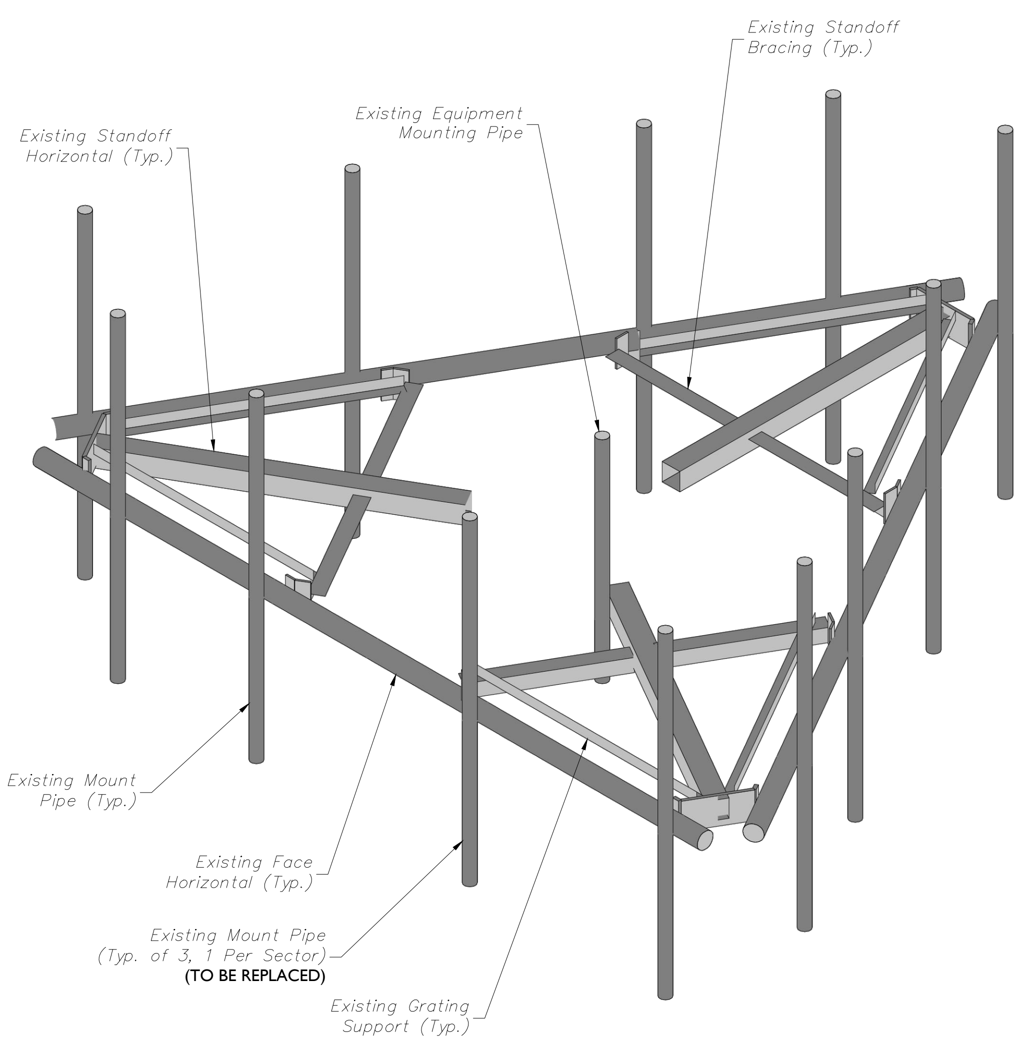
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: MODIFICATION NOTES

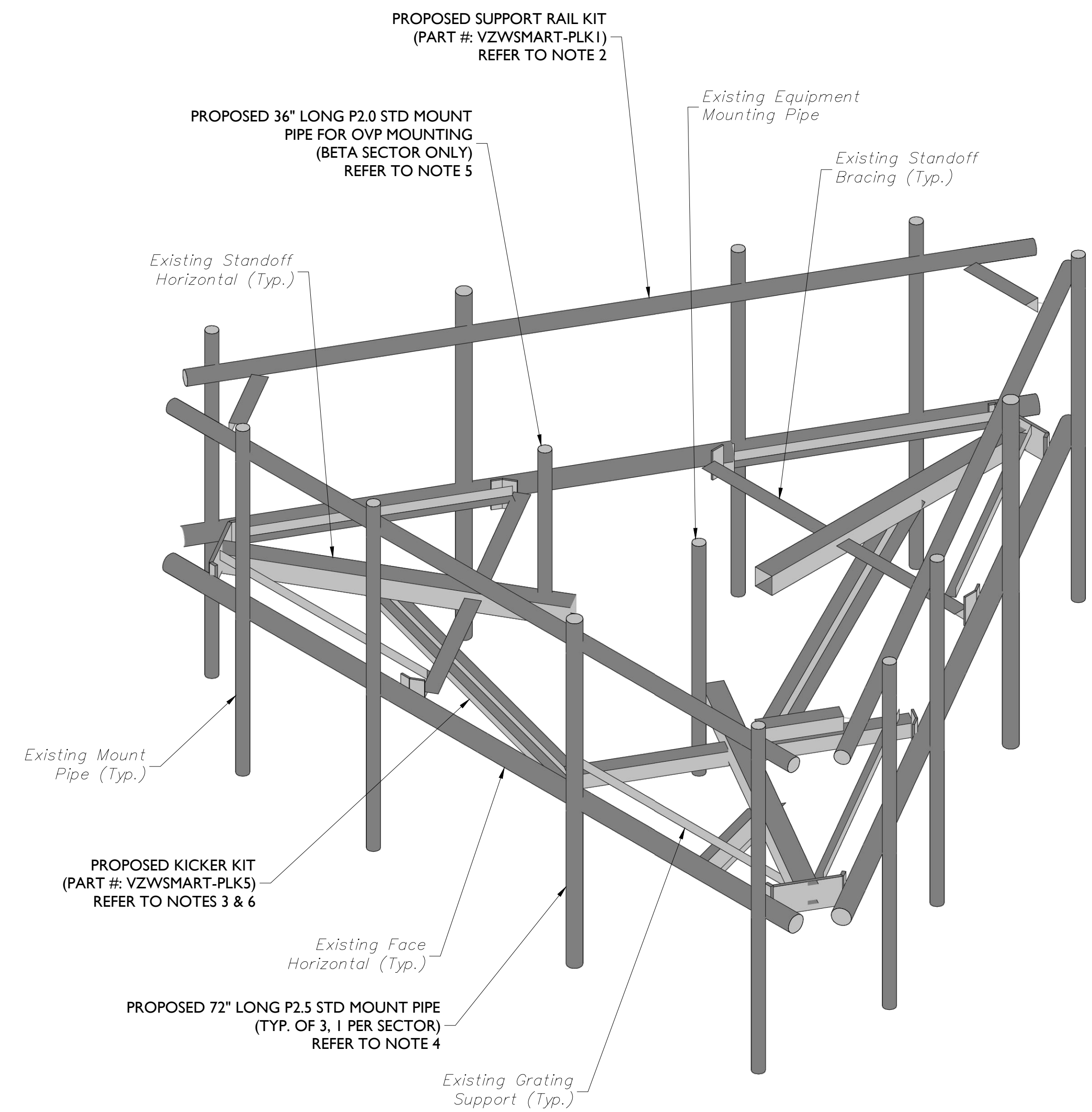
SHEET NUMBER: S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 EXISTING PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY ROAMING NETWORKS INC. ON 3/30/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (89') ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.

2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.

3. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.

4. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

5. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).

6. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).

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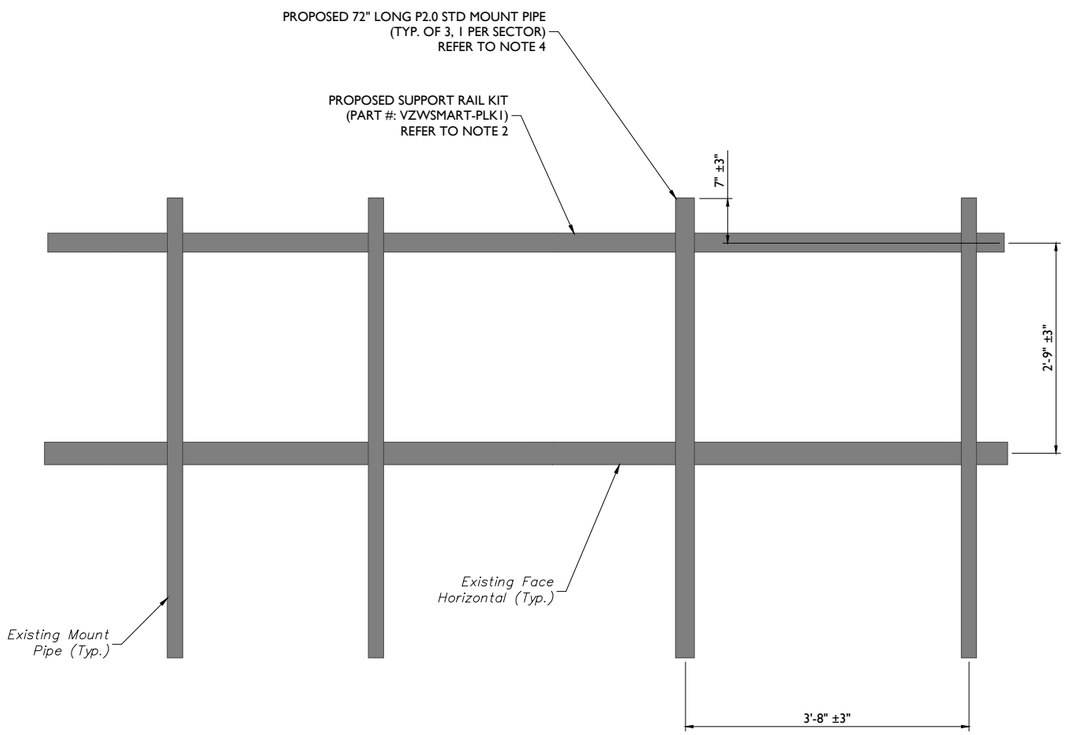
SHEET TITLE : MODIFICATION DETAILS

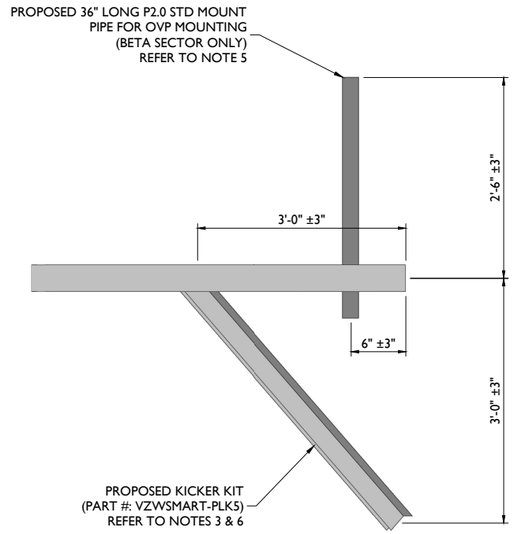
SHEET NUMBER : S-4

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 PROPOSED FRONT ELEVATION VIEW (TYP. EACH SECTOR)

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. EACH SECTOR)

SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
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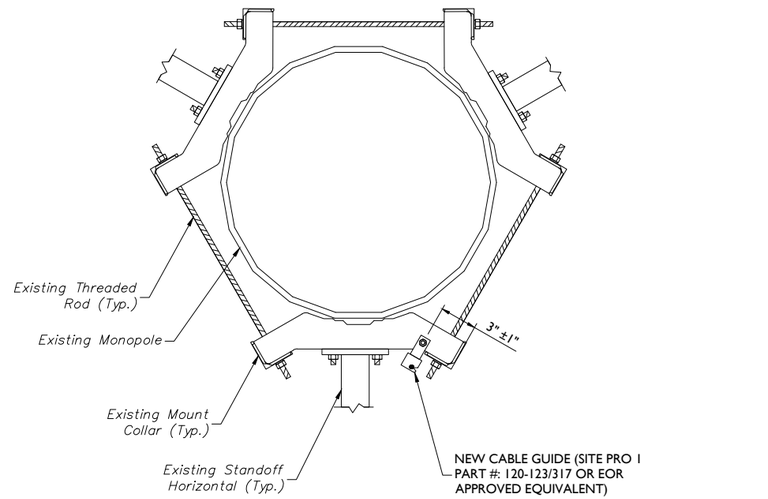
6. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).



3 PROPOSED SAFETY CLIMB CABLE GUIDE DETAIL

SCALE : N.T.S.

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SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-5

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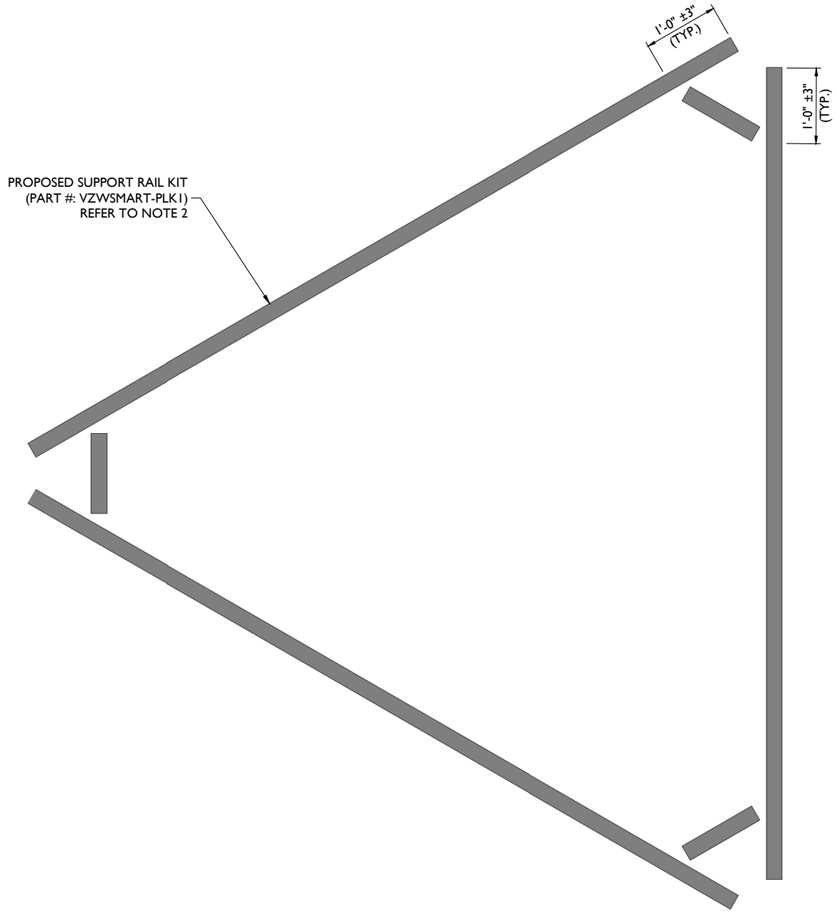

4 PROPOSED SUPPORT RAIL PLAN VIEW

SCALE : N.T.S.

MODIFICATION NOTES:

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3. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NEEDED IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
4. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
5. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).
6. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).

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SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-6

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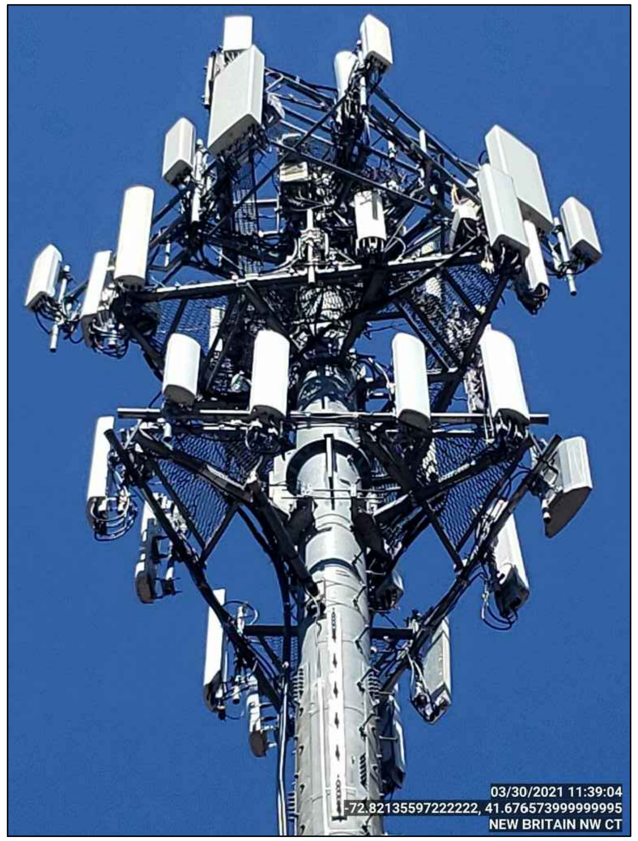
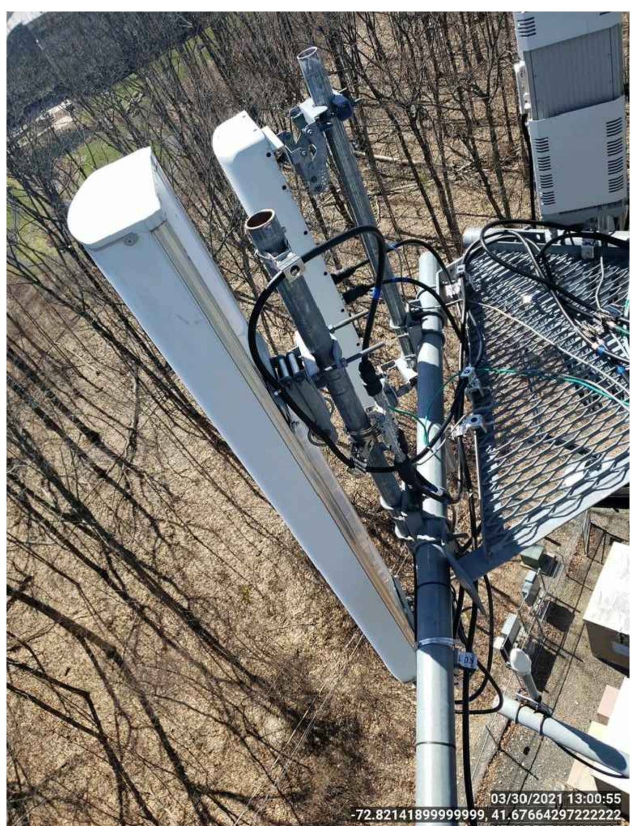


MOUNT PHOTO 1

MOUNT PHOTO 2



MOUNT PHOTO 3

MOUNT PHOTO 4

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AS SHOWN	21777239A

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SHEET TITLE:
MOUNT PHOTOS

SHEET NUMBER:
S-7

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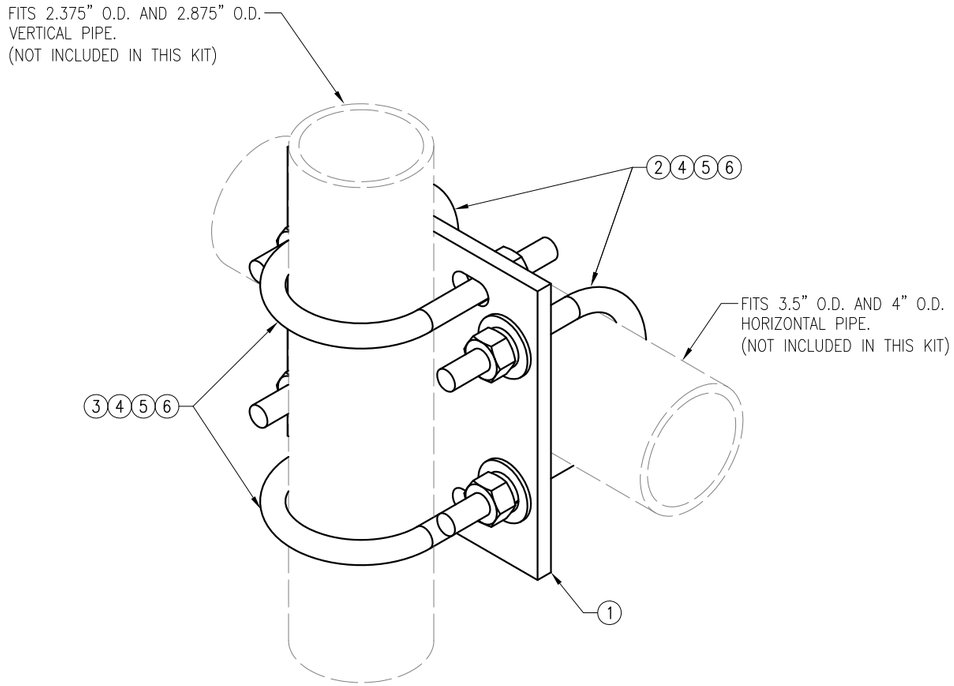

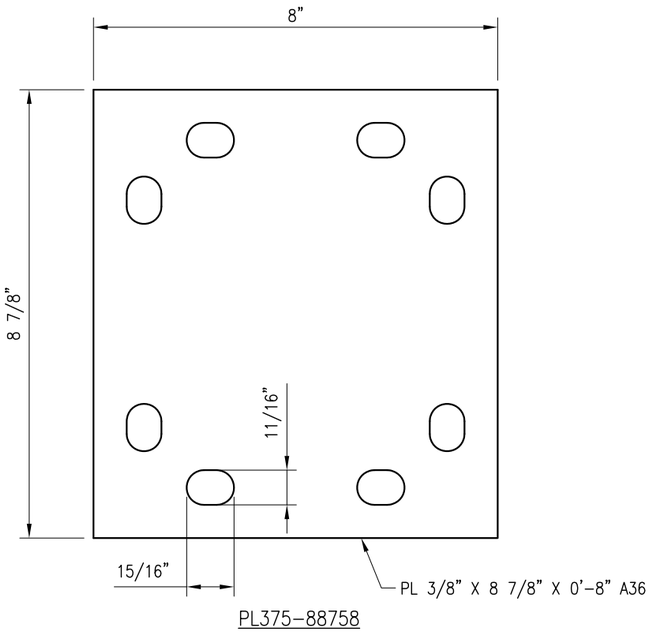

PL375-88758

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

VZWSMART-MSK2 (CROSSOVER PLATE)

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

VzW SMART Tool© Vendor

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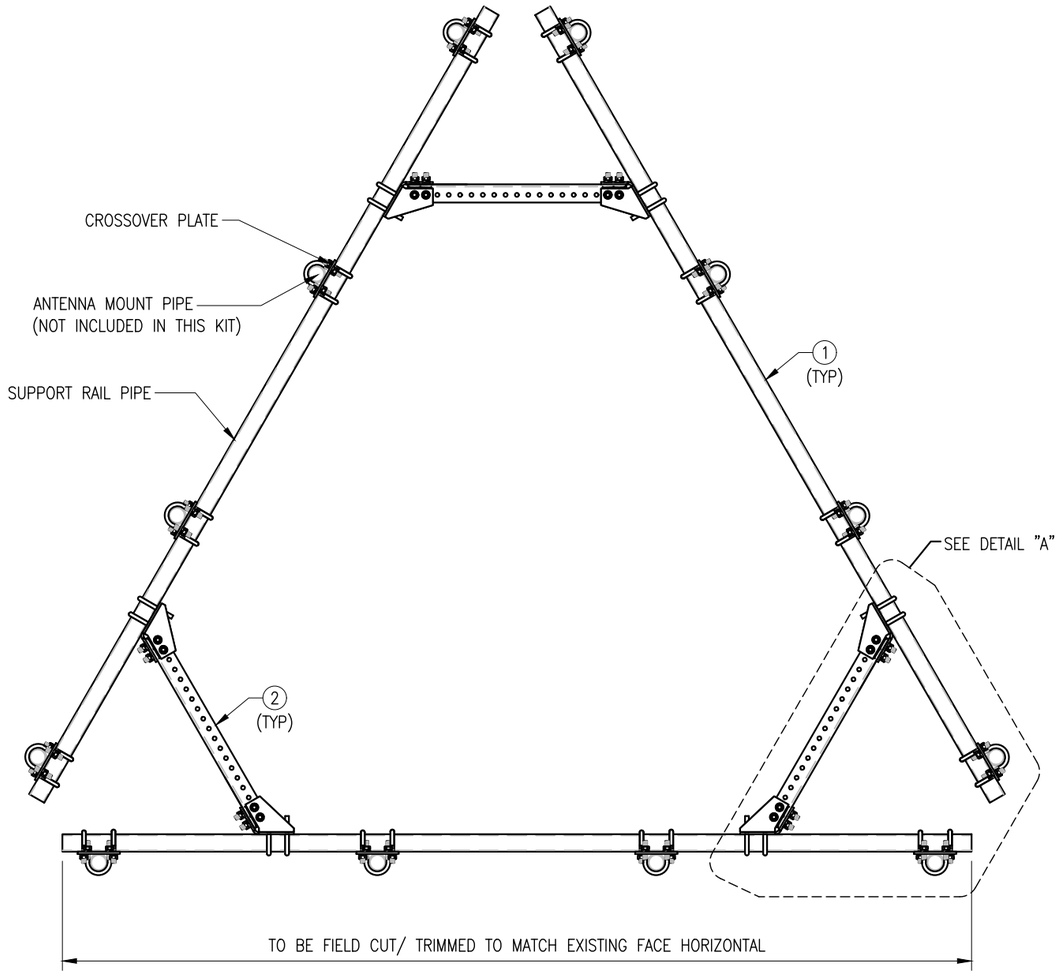
DRAWN BY: H.R | CHECKED BY: HMA

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

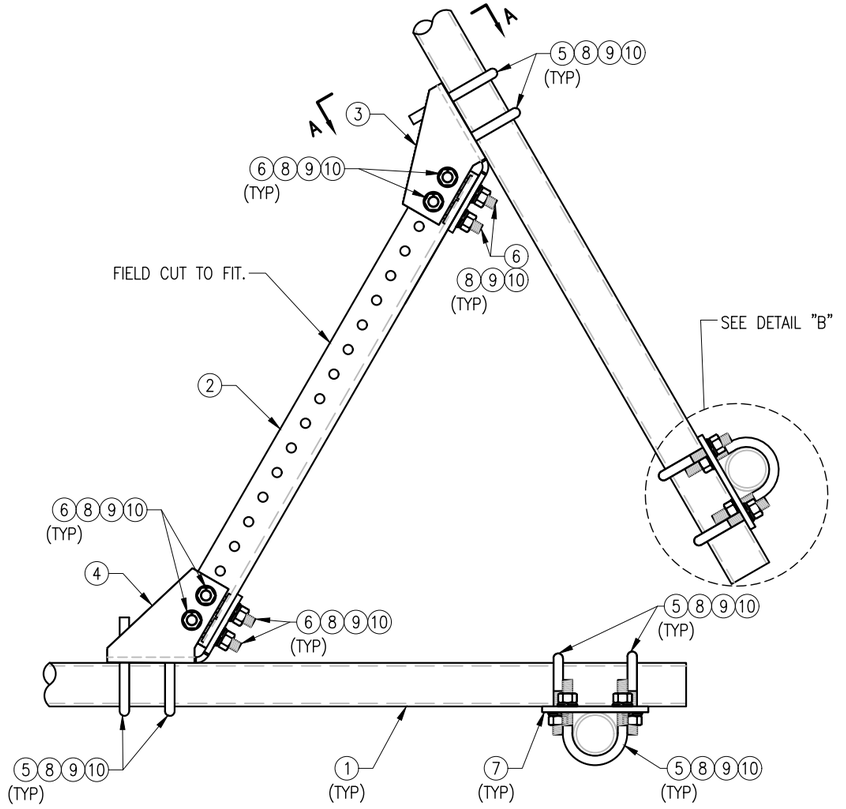
SHEET TITLE:
VZWSMART-MSK2
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK2

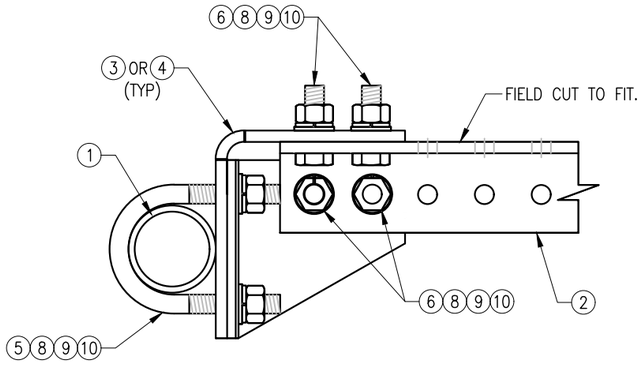
REV #: 0



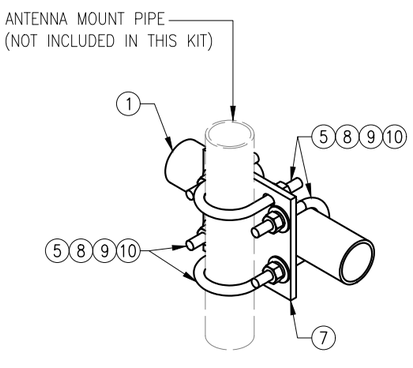
PLAN VIEW



DETAIL "A"



SECTION "A–A"



DETAIL "B"

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

VZW SMART–PLK1 (SUPPORT RAIL KIT)

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

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DRAWN BY: H.R | CHECKED BY: HMA

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

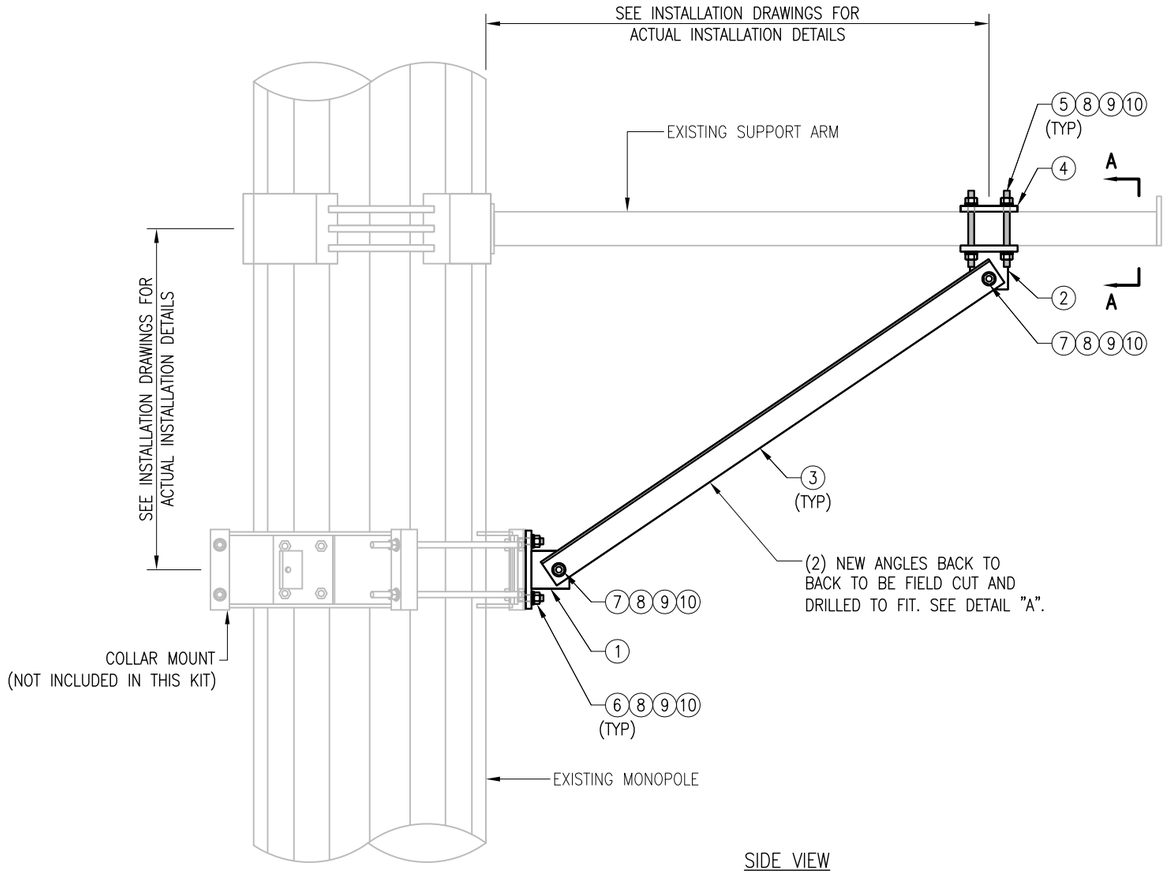
SHEET TITLE:

VZWSMART–PLK1
SUPPORT RAIL KIT

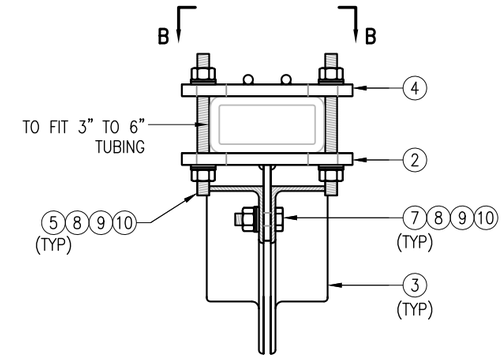
SHEET NUMBER: VZWSMART–PLK1

REV #: 0

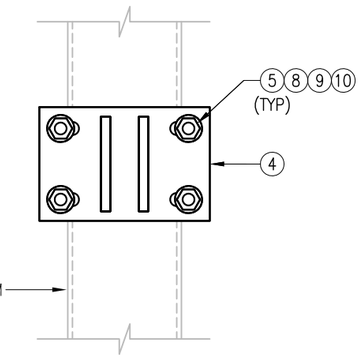
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



SIDE VIEW
KICKER KIT

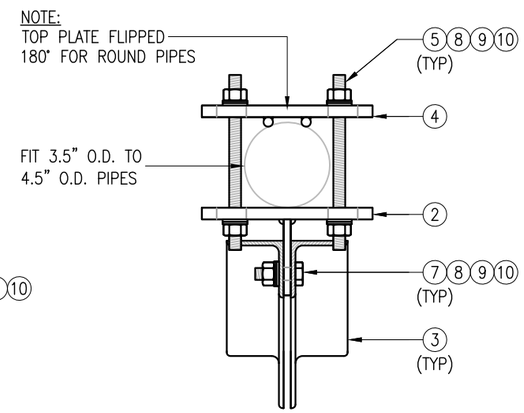


SECTION "A–A"
RECT. HSS MOUNTING

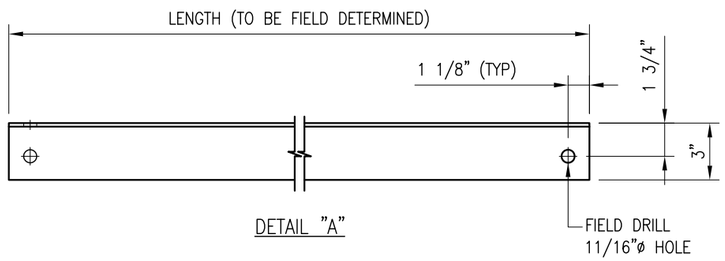


SECTION "B–B"

NOTE:
TOP PLATE FLIPPED 180° FOR ROUND PIPES



SECTION "A–A"
ROUND PIPE MOUNTING



DETAIL "A"

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT–DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

VZWSMART–PLK5 (KICKER KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW–XXX	BRACKET WELDMENT A36	PLK5–F3	43.8
2	3	BRKW–XXXX	BRACKET WELDMENT A36	PLK5–F2	35.7
3	6	L331875–8	L 3" X 3" X 3/16" X 8'–0" A36	PLK5–F4	182.9
4	3	PL–KI	PL 5/8" X 6" X 9" A36	PLK5–F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'–0" F1554–36 HDG	---	--
6	6	---	BOLT 5/8" X 2" A325	---	--
7	12	---	BOLT 5/8" X 2 1/2" A325	---	--
8	42	FW–625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW–625	5/8" HDG LOCK WASHER	---	1
10	42	NUT–625	5/8" HDG HEX NUT	---	5
				GALVANIZED WT	291

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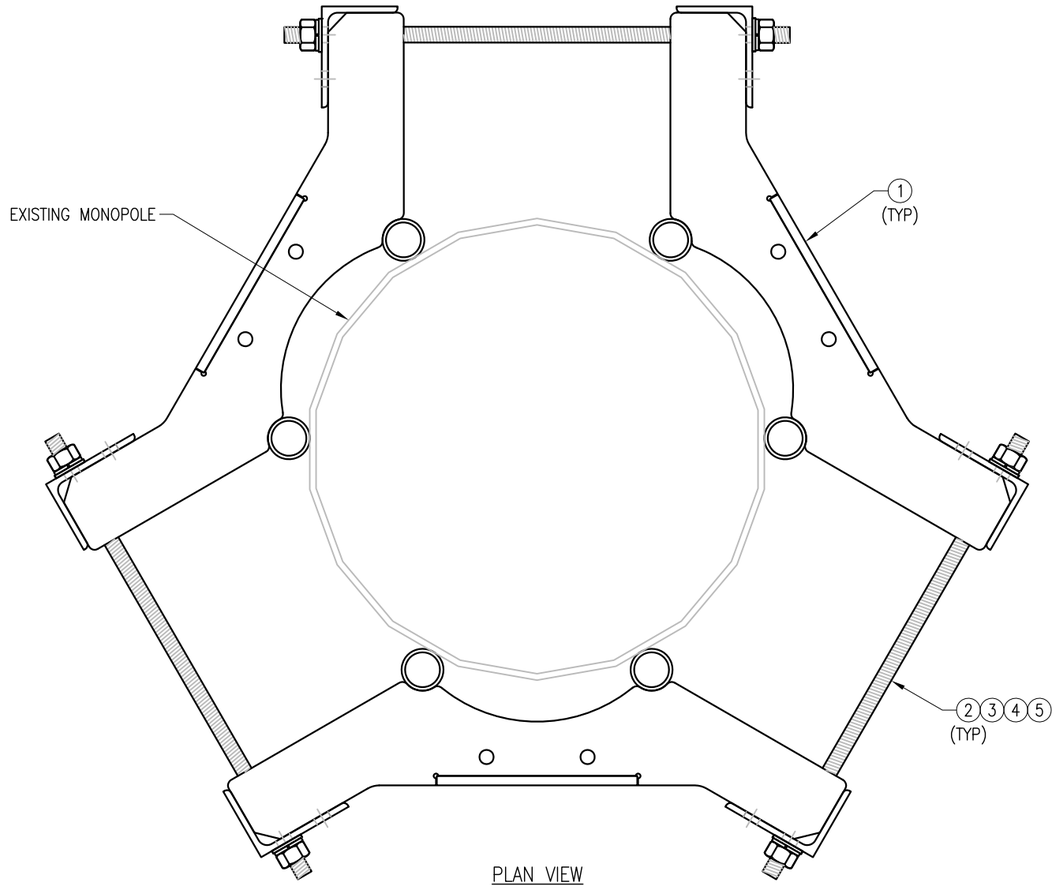
DRAWN BY: MN | CHECKED BY: HMA/KW

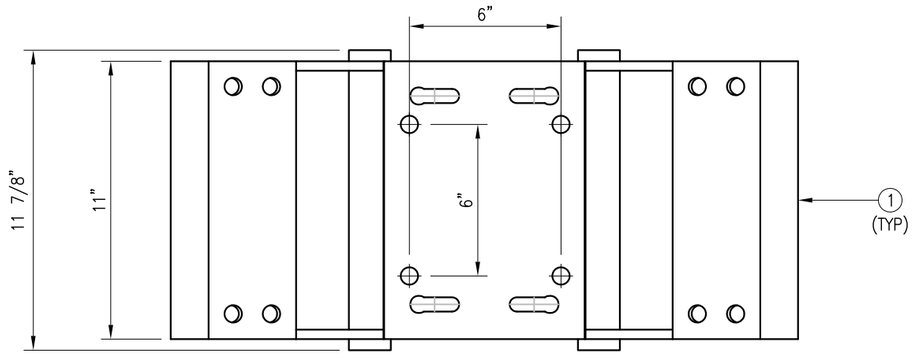
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5
REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

NOTES:
1. FIT 12" TO 45" DIA MONOPOLE.
2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	150

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DRAWN BY: BT | CHECKED BY: HMA/KW

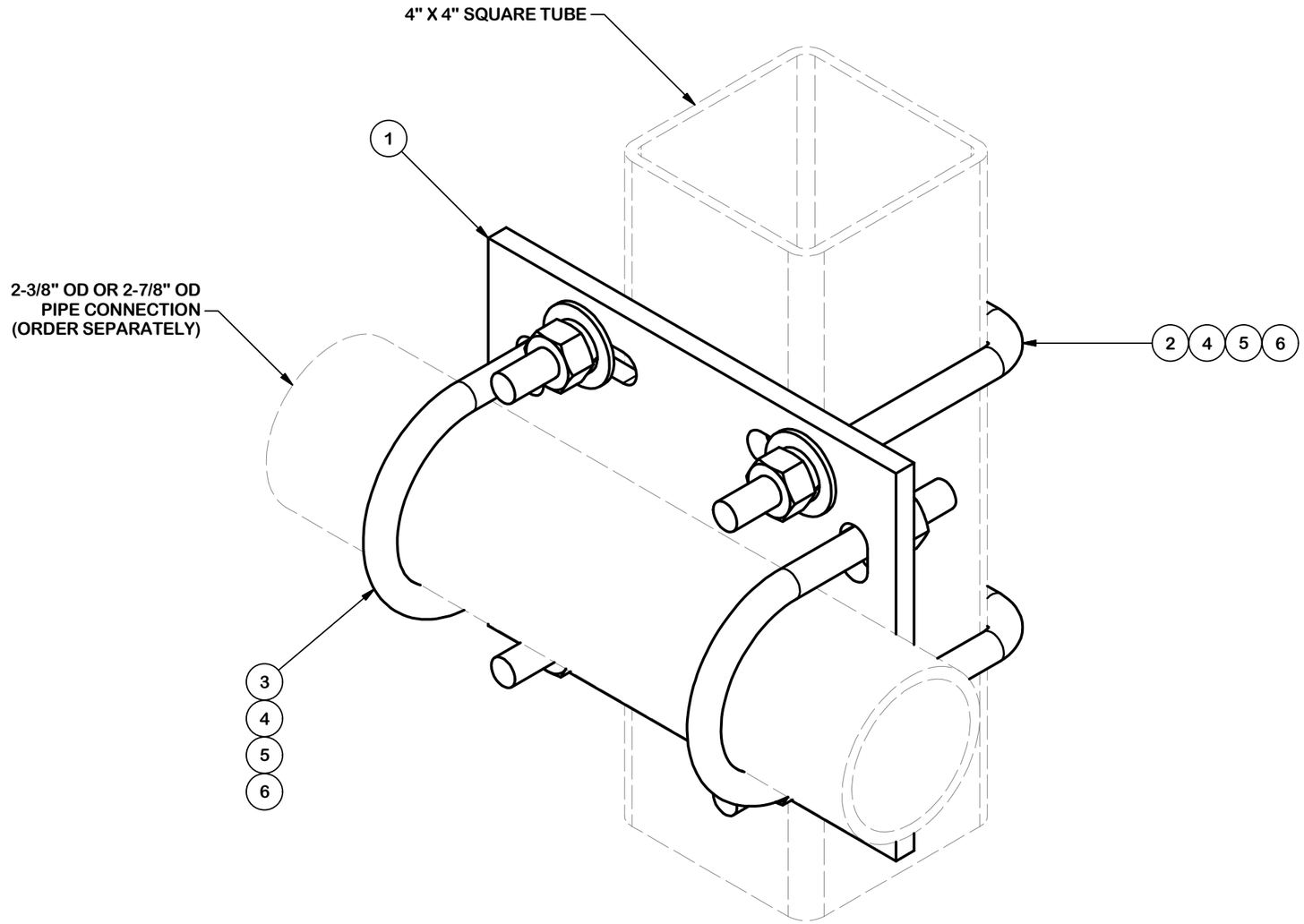
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0

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



TOLERANCE NOTES

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

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

SITE PRO 1
A valmont COMPANY
Engineering Support Team:
1-888-753-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

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

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

Exhibit D

Structural Analysis Report

Date: **May 11, 2022**

MTS Engineering, P.L.L.C.
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	535831
	Site Name:	New Britain NW CT
Crown Castle Designation:	**BU Number:**	876331
	Site Name:	New Britain Gravel Pit
	JDE Job Number:	716934
	Work Order Number:	2113029
	Order Number:	616729 Rev. 0
Engineering Firm Designation:	**Project Number:**	151136.007.01
Site Data:	**115 North Mountain Rd, New Britain, Hartford County, CT** **Latitude *41° 40' 35.72"*, Longitude *-72° 49' 17.09"*** **118 Foot - Monopole Tower**	

We are pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

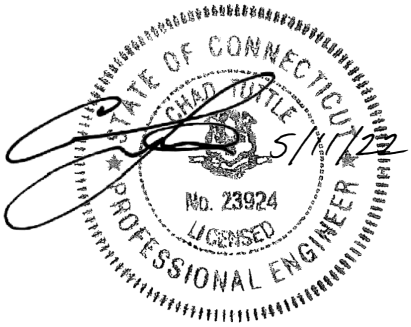
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 99.7%**

This analysis utilizes an ultimate 3-second gust wind speed of 117 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 – Analysis Criteria.

Structural analysis prepared by: Daniel Hast, E.I.

Respectfully submitted by: MTS Engineering, P.L.L.C.
COA: BER.2386985; Expires: 3/31/2023



Chad E. Tuttle, P.E.

tnxTower Report - version 8.1.1.0

TABLE OF CONTENTS

1) INTRODUCTION

This is a 118 ft. Monopole designed by Rohn in October 1996.

The tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 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)
85.0	90.0	1	Antel	BXA-70040-6CF-EDIN-2	7 1	1-5/8 1-1/2
		2	Antel	BXA-70063-6CF-2		
		6	Commscope	NHH-65B-R2B		
		1	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecom.	MT6407-77A		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	RFV01U-D2A		
	85.0	1	--	36'' Long P2STD Mount Pipe		
		3	--	72'' Long P2.5 STD Mount Pipe		
		1	VZWSMART	PLK5 Kicker Kit		
		1	VZWSMART	PLK1 Support Rail Kit		
		1	--	Platform Mount [LP 303-1]		

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)
116.0	117.0	3	Alcatel Lucent	800MHZ 2X50W RRH W/Filter	--	--
	116.0	1	--	Pipe Mount [PM 601-3]		
	113.0	3	Alcatel Lucent	PCS 1900MHZ 4X45W-65MHZ		
114.0	116.0	1	Andrew	VHLP1-23	4 1	1-1/4 1/2
		3	Alcatel Lucent	TD-RRH8X20-25		
		1	RFS Celwave	APXV9ERR18-C-A20		
		2	RFS Celwave	APXVSPP18-C-A20		
		3	RFS Celwave	APXVTM14-C-120		
		1	Samsung Telecom.	WIMAX DAP HEAD		
	114.0	1	--	Platform Mount [LP 502-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
108.0	108.0	1	Site Pro 1	RMQP-496-HK Platform Mount	3 6	1-5/8 7/8
		3	Commscope	SDX1926Q-43		
		3	Ericsson	AIR 32 B2A/B66AA		
		3	Ericsson	AIR6449 B41_T-MOBILE		
		3	Ericsson	KRY 112 144/1		
		3	Ericsson	Radio 4449 B71 B85A_T-Mobile		
		3	Ericsson	RRUS 4415 B25		
		3	RFS Celwave	APXVAARR24_43-U-NA20		
98.0	102.0	1	Site Pro 1	HRK12 Support Rail Kit	9 2 2	7/8 13/16 3/8
	100.0	2	CCI Antennas	DMP65R-BU6D		
		1	CCI Antennas	DMP65R-BU8D		
		2	CCI Antennas	TPA65R-BU6D_CCIV2		
		1	CCI Antennas	TPA65R-BU8D_CCIV2		
		3	Ericsson	AIR 6419 B77G		
		3	Ericsson	AIR 6449 B77D		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14_CCIV2		
		3	Ericsson	RRUS 8843 B2/B66A_CCIV2		
		1	Raycap	DC9-48-60-24-8C-EV		
	98.0	1	Raycap	DC6-48-60-18-8F		
		1	--	Platform Mount [LP 712-1]		
80.0	81.0	1	Lucent	KS24019-L112A	1	1/2
	80.0	1	--	Side Arm Mount [SO 701-1]		
62.0	62.0	1	--	Commscope MC-PK8-DSH	1	1-1/2
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		3	JMA Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	5875885	CCI Sites
Tower Modification Drawing	2268906	CCI Sites
Tower Modification Drawing	3259703	CCI Sites
Post Modification Inspection	3684848	CCI Sites
Tower Modification Drawing	4858411	CCI Sites
Post Modification Inspection	5407775	CCI Sites
Tower Modification Drawing	5371260	CCI Sites
Post Modification Inspection	5596857	CCI Sites
Tower Modification Drawing	5907683	CCI Sites
Post Modification Inspection	6131239	CCI Sites
Foundation Drawing	1947809	CCI Sites
Geotech Report	2192549	CCI Sites
Crown CAD Package	Date: 05/05/2022	CCI Sites

3.1) Analysis Method

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

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

3.2) Assumptions

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

This analysis may be affected if any assumptions are not valid or have been made in error. We 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	118 - 113	Pole	P24x0.25	1	-3.060	--	2.3	Pass
L2	113 - 108	Pole	P24x0.25	2	-3.451	--	6.6	Pass
L3	108 - 103	Pole	P24x0.25	3	-8.472	--	16.8	Pass
L4	103 - 98	Pole	P24x0.25	4	-9.198	--	26.8	Pass
L5	98 - 93	Pole	P24x0.25	5	-13.331	--	45.9	Pass
L6	93 - 90	Pole	P24x0.25	6	-13.655	--	55.9	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L7	90 - 85	Pole	P24x0.375	7	-14.458	--	46.6	Pass
L8	85 - 80	Pole	P24x0.375	8	-18.966	--	63.1	Pass
L9	80 - 76.5	Pole	P24x0.375	9	-19.631	--	73.2	Pass
L10	76.5 - 76.25	Pole + Reinf.	P24x0.5875	10	-19.697	--	53.2	Pass
L11	76.25 - 74	Pole + Reinf.	P24x0.5875	11	-20.177	--	58.0	Pass
L12	74 - 73.75	Pole + Reinf.	P24x0.9	12	-20.259	--	58.0	Pass
L13	73.75 - 68.75	Pole + Reinf.	P24x0.9	13	-21.734	--	68.8	Pass
L14	68.75 - 68.5	Pole + Reinf.	P24x0.8	14	-21.807	--	53.3	Pass
L15	68.5 - 68.25	Pole + Reinf.	P24x0.575	15	-21.862	--	70.8	Pass
L16	68.25 - 64.5	Pole + Reinf.	P24x0.575	16	-22.688	--	79.2	Pass
L17	64.5 - 64.25	Pole + Reinf.	P24x1.05	17	-22.785	--	69.2	Pass
L18	64.25 - 63	Pole + Reinf.	P24x1.05	18	-23.197	--	71.7	Pass
L19	63 - 62.75	Pole + Reinf.	P24x1	19	-23.286	--	74.5	Pass
L20	62.75 - 60	Pole + Reinf.	P24x1	20	-27.300	--	80.8	Pass
L21	60 - 59.75	Pole + Reinf.	P30x0.675	21	-27.554	--	50.8	Pass
L22	59.75 - 54.75	Pole + Reinf.	P30x0.675	22	-29.130	--	58.4	Pass
L23	54.75 - 49.75	Pole + Reinf.	P30x0.675	23	-30.715	--	66.3	Pass
L24	49.75 - 49.08	Pole + Reinf.	P30x0.675	24	-30.933	--	67.4	Pass
L25	49.08 - 48.83	Pole + Reinf.	P30x0.875	25	-31.023	--	62.3	Pass
L26	48.83 - 43.83	Pole + Reinf.	P30x0.875	26	-32.735	--	69.7	Pass
L27	43.83 - 42	Pole + Reinf.	P30x0.875	27	-33.360	--	72.5	Pass
L28	42 - 41.75	Pole + Reinf.	P30x1	28	-33.471	--	64.1	Pass
L29	41.75 - 36.75	Pole + Reinf.	P30x1	29	-35.374	--	70.8	Pass
L30	36.75 - 34.5	Pole + Reinf.	P30x1	30	-36.237	--	73.9	Pass
L31	34.5 - 34.25	Pole + Reinf.	P30x1.05	31	-36.351	--	65.9	Pass
L32	34.25 - 34	Pole + Reinf.	P30x1.05	32	-36.456	--	66.2	Pass
L33	34 - 33.75	Pole + Reinf.	P30x0.95	33	-36.553	--	74.6	Pass
L34	33.75 - 30	Pole + Reinf.	P30x0.95	34	-37.994	--	79.7	Pass
L35	30 - 29.75	Pole + Reinf.	P36x0.5875	35	-38.312	--	75.7	Pass
L36	29.75 - 28.5	Pole + Reinf.	P36x0.5875	36	-38.744	--	77.4	Pass
L37	28.5 - 28.25	Pole + Reinf.	P36x0.6125	37	-38.853	--	77.5	Pass
L38	28.25 - 27.94	Pole + Reinf.	P36x0.8375	38	-38.988	--	61.6	Pass
L39	27.94 - 27.69	Pole + Reinf.	P36x0.8375	39	-39.098	--	61.8	Pass
L40	27.69 - 23	Pole + Reinf.	P36x0.8375	40	-41.153	--	67.0	Pass
L41	23 - 22.75	Pole + Reinf.	P36x0.9625	41	-41.277	--	62.8	Pass
L42	22.75 - 21.5	Pole + Reinf.	P36x0.9625	42	-41.848	--	64.1	Pass
L43	21.5 - 21.25	Pole + Reinf.	P36x0.875	43	-41.964	--	69.3	Pass
L44	21.25 - 21	Pole + Reinf.	P36x0.875	44	-42.071	--	69.6	Pass
L45	21 - 20.75	Pole + Reinf.	P36x0.8	45	-42.173	--	77.6	Pass
L46	20.75 - 19	Pole + Reinf.	P36x0.8	46	-42.880	--	79.8	Pass
L47	19 - 18.75	Pole + Reinf.	P36x0.925	47	-43.012	--	70.5	Pass
L48	18.75 - 18.5	Pole + Reinf.	P36x0.925	48	-43.128	--	70.8	Pass
L49	18.5 - 18.25	Pole + Reinf.	P36x0.9	49	-43.242	--	72.8	Pass
L50	18.25 - 13.25	Pole + Reinf.	P36x0.9	50	-45.521	--	78.5	Pass
L51	13.25 - 12.7	Pole + Reinf.	P36x0.9	51	-45.778	--	79.1	Pass
L52	12.7 - 12.35	Pole + Reinf.	P36x0.8875	52	-45.953	--	72.1	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L53	12.35 - 12.13	Pole + Reinf.	P36x0.8875	53	-46.065	--	72.4	Pass
L54	12.13 - 12	Pole + Reinf.	P36x0.8875	54	-46.128	--	72.5	Pass
L55	12 - 11.75	Pole + Reinf.	P36x1.075	55	-46.254	--	63.5	Pass
L56	11.75 - 8.38	Pole + Reinf.	P36x1.075	56	-47.963	--	66.6	Pass
L57	8.38 - 8.13	Pole + Reinf.	P36x1.175	57	-48.095	--	71.3	Pass
L58	8.13 - 7.75	Pole + Reinf.	P36x1.175	58	-48.281	--	71.7	Pass
L59	7.75 - 7.5	Pole + Reinf.	P36x1.075	59	-48.407	--	67.9	Pass
L60	7.5 - 7.25	Pole + Reinf.	P36x1.1	60	-48.537	--	67.5	Pass
L61	7.25 - 4	Pole + Reinf.	P36x1.1	61	-50.224	--	70.5	Pass
L62	4 - 3.73	Pole + Reinf.	P36x1.475	62	-50.377	--	54.4	Pass
L63	3.73 - 3.58	Pole + Reinf.	P36x1.475	63	-50.460	--	54.5	Pass
L64	3.58 - 3	Pole + Reinf.	P36x1.475	64	-50.773	--	54.9	Pass
L65	3 - 2.75	Pole + Reinf.	P36x1.475	65	-50.912	--	55.1	Pass
L66	2.75 - 1.9	Pole + Reinf.	P36x1.1	66	-51.303	--	72.3	Pass
L67	1.9 - 1.65	Pole + Reinf.	P36x1.1	67	-51.427	--	72.6	Pass
L68	1.65 - 0	Pole + Reinf.	P36x1.1	68	-52.186	--	74.1	Pass
							Summary	
						Pole	77.5	Pass
						Reinforcement	80.8	Pass
						Overall	80.8	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	90	10.0	Pass
1	Bridge Stiffeners		20.0	Pass
1	Flange Connection	60	36.0	Pass
1	Bridge Stiffeners		38.9	Pass
1	Flange Connection	30	52.7	Pass
1	Bridge Stiffeners		51.8	Pass
1	Anchor Rods	Base	87.6	Pass
1	Anchor Rod Bracket	Base	86.6	Pass
1	Base Plate	Base	57.5	Pass
1	Base Foundation (Structure)	Base	71.2	Pass
1	Base Foundation (Soil Interaction)	Base	99.7	Pass

Structure Rating (max from all components) =	**99.7%**

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.

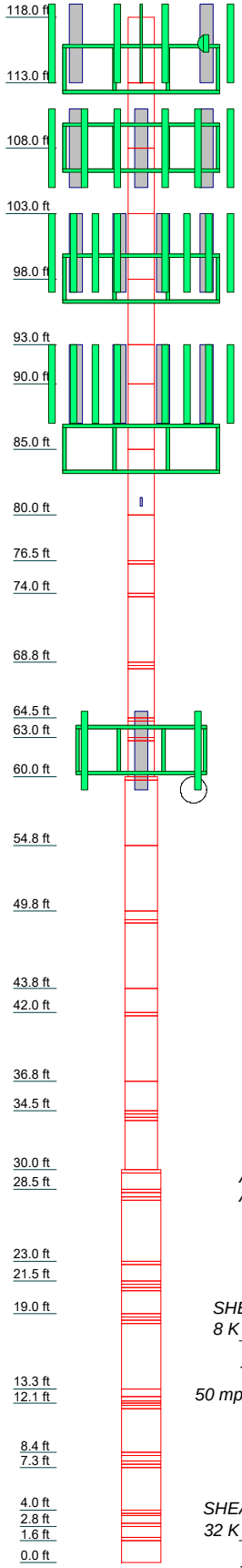
4.1) Recommendations

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

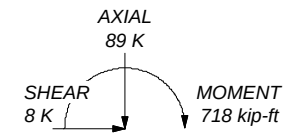
APPENDIX A

TNXTOWER OUTPUT

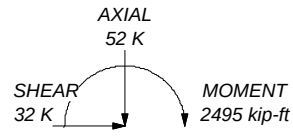
Section	Size	Length (ft)	Grade	Weight (K)
1	P24x0.25	5.000	A572-42	0.3
2	P24x0.25	5.000		0.3
3	P24x0.25	5.000		0.3
4	P24x0.25	5.000		0.3
5	P24x0.25	5.000		0.3
6	P24x0.25	3.000		0.2
7	P24x0.375	5.000		0.5
8	P24x0.375	5.000		0.5
9	P24x0.375	5.500		0.3
10	P24x0.375	0.250		0.0
11	P24x0.375	0.250		0.0
12	P24x0.375	0.250		0.0
13	P24x0.375	5.0000		1.0
14	P24x0.375	0.250		0.0
15	P24x0.375	0.250		0.0
16	P24x0.375	2.750		0.5
17	P24x0.375	0.250		0.0
18	P24x0.375	0.250		0.0
19	P24x0.375	0.250		0.0
20	P24x0.375	0.250		0.0
21	P24x0.375	3.000		0.6
22	P30x0.375	5.0000		1.1
23	P30x0.675	5.000		1.1
24	P30x0.675	0.250		0.1
25	P30x0.675	0.250		0.1
26	P30x0.675	5.000		1.2
27	P30x0.675	0.833		0.4
28	P30x0.675	0.250		0.1
29	P30x0.675	5.0000		1.4
30	P30x0.675	0.250		0.6
31	P30x0.675	0.250		0.1
32	P30x0.675	0.250		0.1
33	P30x0.675	0.750		0.1
34	P30x0.675	0.750		1.0
35	P30x0.675	0.250		0.1
36	P30x0.675	0.250		0.1
37	P30x0.675	0.250		0.1
38	P30x0.675	0.250		0.1
39	P30x0.675	0.250		0.1
40	P30x0.675	4.692		1.5
41	P30x0.675	0.250		0.1
42	P30x0.675	0.250		0.1
43	P30x0.675	0.250		0.1
44	P30x0.675	0.250		0.1
45	P30x0.675	0.250		0.1
46	P30x0.675	0.250		0.1
47	P30x0.675	0.250		0.1
48	P30x0.675	0.250		0.1
49	P30x0.675	0.250		0.1
50	P30x0.675	5.000		1.7
51	P30x0.675	0.250		0.1
52	P30x0.675	0.250		0.1
53	P30x0.675	0.250		0.1
54	P30x0.675	0.250		0.1
55	P30x0.675	0.250		0.1
56	P30x0.675	3.750		1.3
57	P30x0.675	0.250		0.1
58	P30x0.675	0.250		0.1
59	P30x0.675	0.250		0.1
60	P30x0.675	0.250		0.1
61	P30x0.675	2.917		1.3
62	P30x0.675	0.250		0.1
63	P30x0.675	0.250		0.1
64	P30x0.675	0.250		0.1
65	P30x0.675	0.250		0.1
66	P30x0.675	0.250		0.1
67	P30x0.675	0.250		0.1
68	P30x0.675	0.250		0.1
		1.000		23.8



ALL REACTIONS ARE FACTORED



TORQUE 0 kip-ft
50 mph WIND - 1.500 in ICE



TORQUE 2 kip-ft
REACTIONS - 117 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-42	42 ksi	60 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 80.8%

B+T GRP

MTS Engineering, P.L.L.C.
1717 S. Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

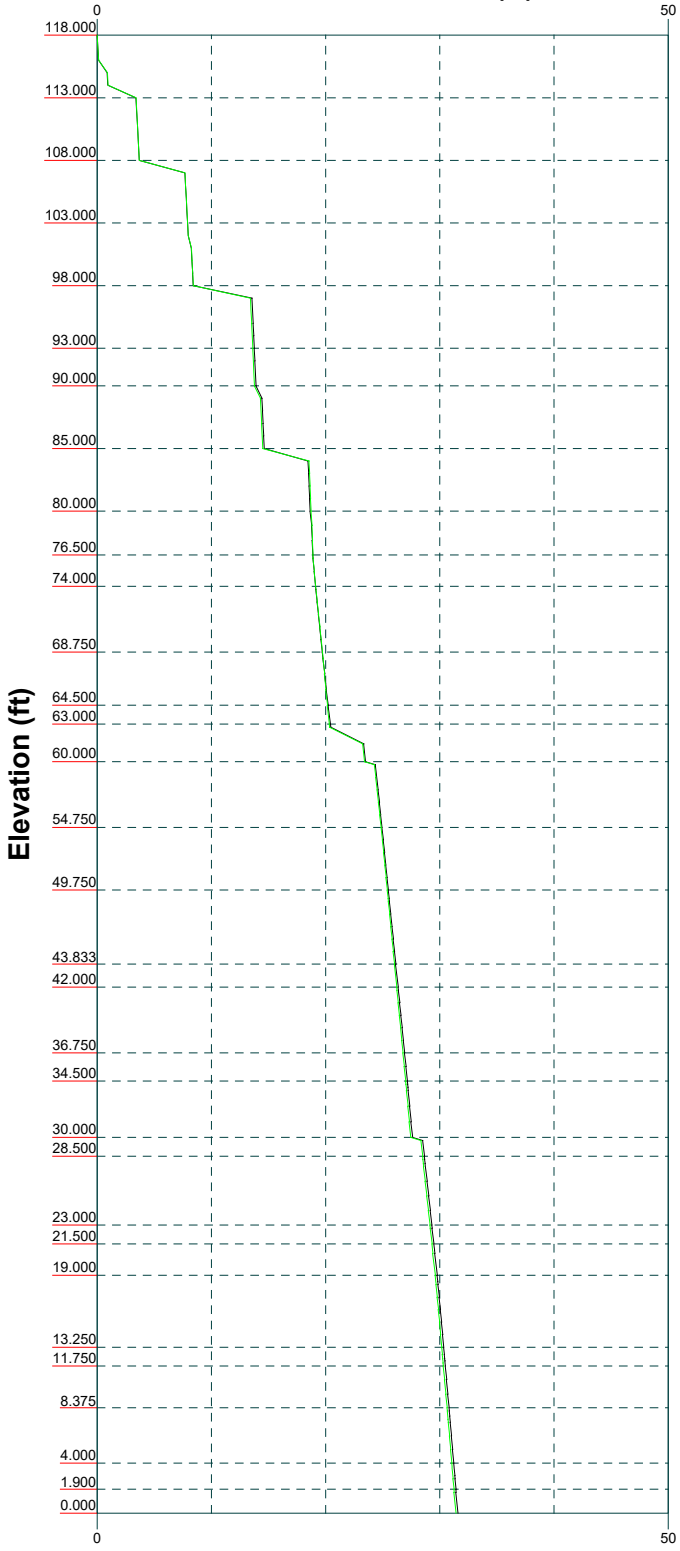
Job:	***151136.007.01 - NEW BRITAIN GRAVEL PIT, CT (BU# 87633.***		
Project:			
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:	
Code: TIA-222-H	Date: 05/10/22	Scale: NTS	
Path:		Dwg No. E-1	

TIA-222-H - 117 mph/50 mph 1.500 in Ice Exposure C

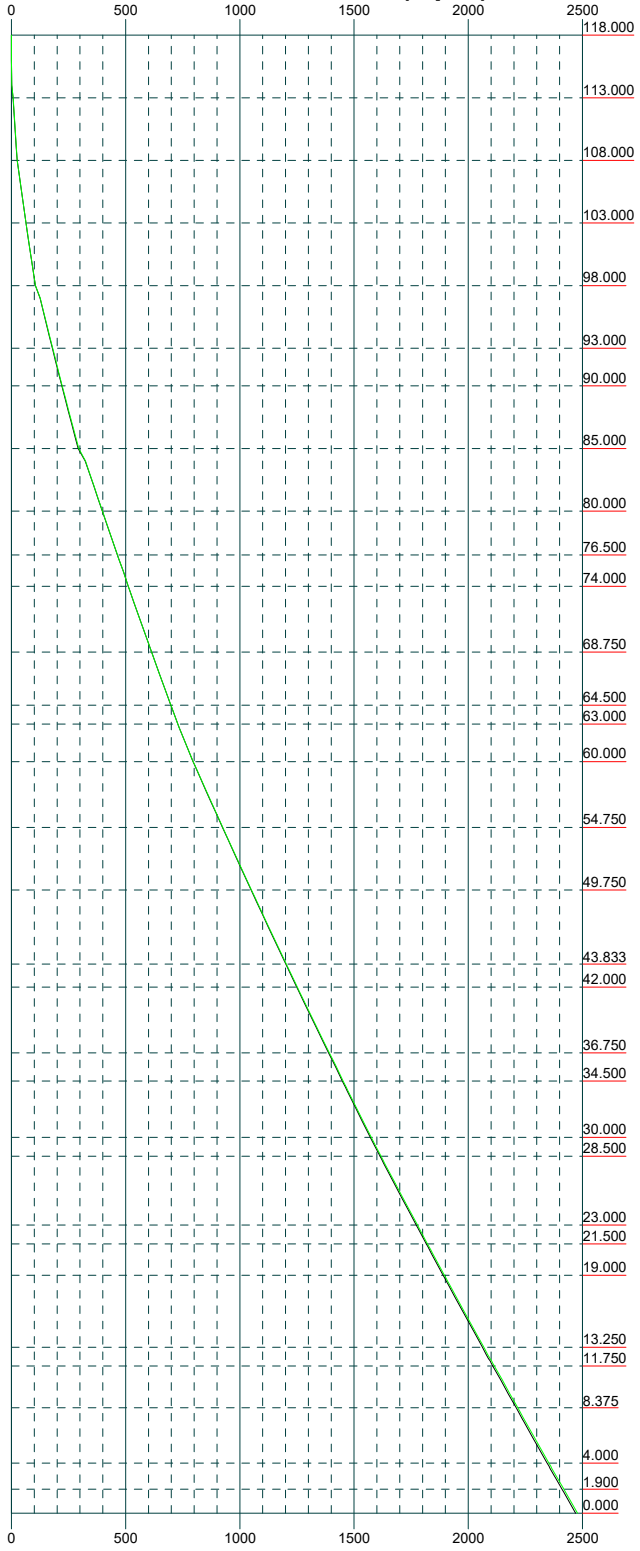
Maximum Values

Vx Vz Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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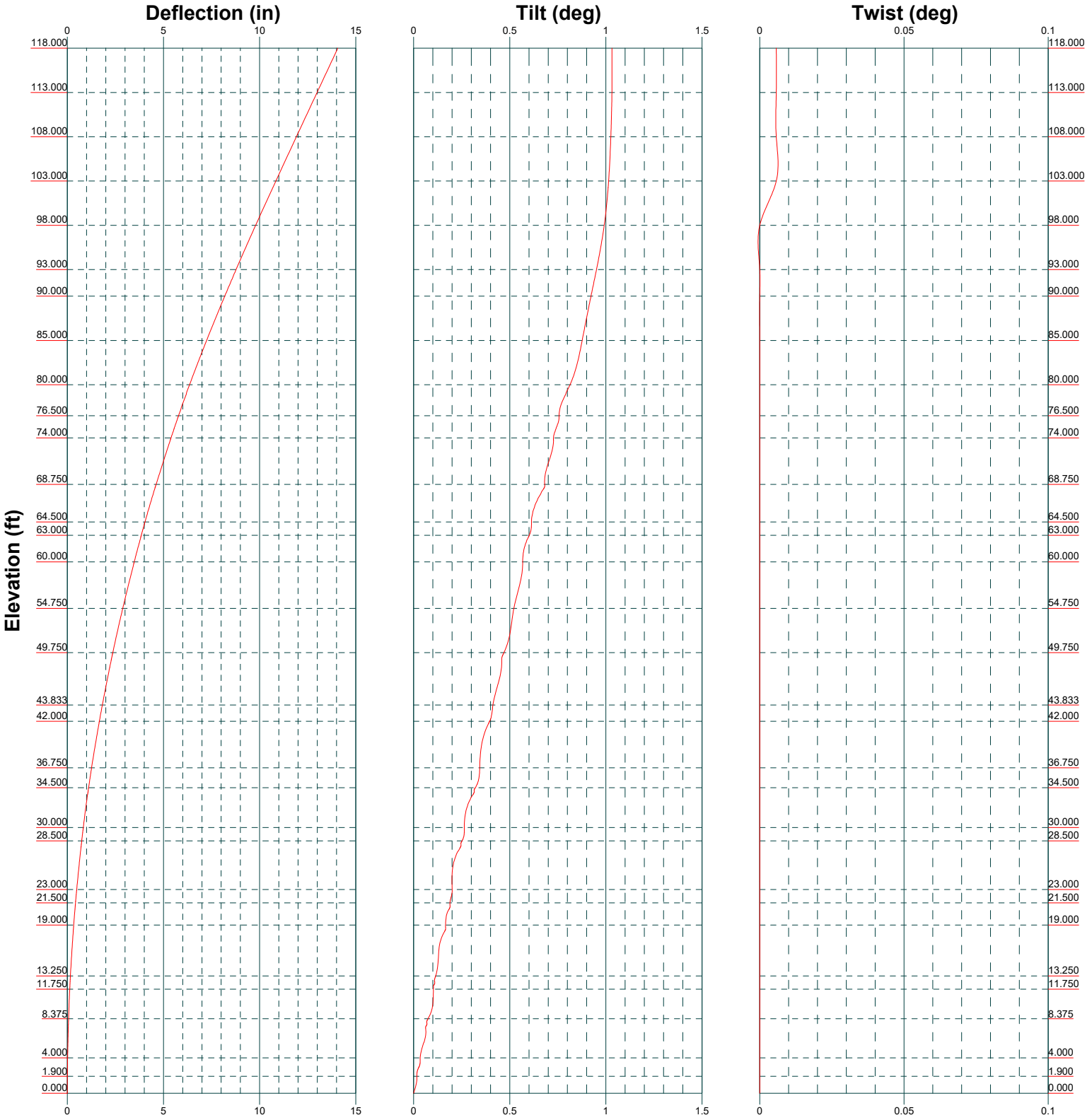
Project:			
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:	
Code: TIA-222-H	Date: 05/10/22	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-H - Service - 60 mph

Maximum Values



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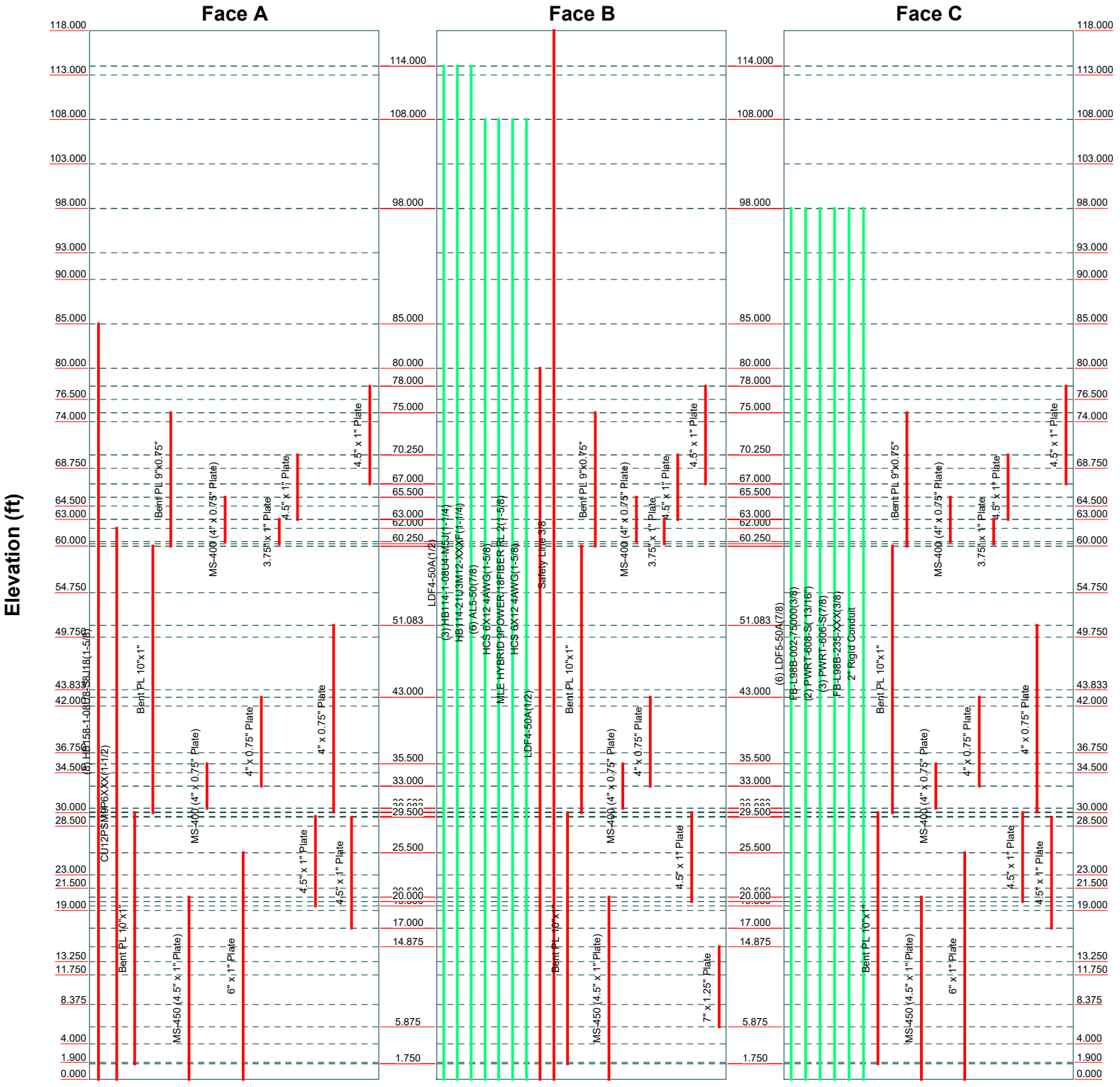
Project:			
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:	
Code: TIA-222-H	Date: 05/10/22	Scale: NTS	
Path:		Dwg No. E-5	

Feed Line Distribution Chart
0' - 118'

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



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Job: ***151136.007.01 - NEW BRITAIN GRAVEL PIT, CT (BU# 87633***			
Project:			
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:	
Code: TIA-222-H	Date: 05/10/22	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 Hartford County, Connecticut.
Tower base elevation above sea level: 350.000 ft.
Basic wind speed of 117 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
TOWER RATING: 80.8%.
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

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	118.000-113.000	5.000	P24x0.25	A572-42 (42 ksi)	
L2	113.000-108.000	5.000	P24x0.25	A572-42 (42 ksi)	
L3	108.000-103.000	5.000	P24x0.25	A572-42 (42 ksi)	
L4	103.000-98.000	5.000	P24x0.25	A572-42 (42 ksi)	
L5	98.000-93.000	5.000	P24x0.25	A572-42 (42 ksi)	
L6	93.000-90.000	3.000	P24x0.25	A572-42 (42 ksi)	
L7	90.000-85.000	5.000	P24x0.375	A572-42 (42 ksi)	
L8	85.000-80.000	5.000	P24x0.375	A572-42 (42 ksi)	
L9	80.000-76.500	3.500	P24x0.375	A572-42 (42 ksi)	
L10	76.500-76.250	0.250	P24x0.5875	A572-42 (42 ksi)	
L11	76.250-74.000	2.250	P24x0.5875	A572-42 (42 ksi)	
L12	74.000-73.750	0.250	P24x0.9	A572-42 (42 ksi)	
L13	73.750-68.750	5.000	P24x0.9	A572-42 (42 ksi)	
L14	68.750-68.500	0.250	P24x0.8	A572-42 (42 ksi)	
L15	68.500-68.250	0.250	P24x0.575	A572-42 (42 ksi)	
L16	68.250-64.500	3.750	P24x0.575	A572-42 (42 ksi)	
L17	64.500-64.250	0.250	P24x1.05	A572-42 (42 ksi)	
L18	64.250-63.000	1.250	P24x1.05	A572-42 (42 ksi)	
L19	63.000-62.750	0.250	P24x1	A572-42 (42 ksi)	
L20	62.750-60.000	2.750	P24x1	A572-42 (42 ksi)	
L21	60.000-59.750	0.250	P30x0.675	A572-42 (42 ksi)	
L22	59.750-54.750	5.000	P30x0.675	A572-42 (42 ksi)	
L23	54.750-49.750	5.000	P30x0.675	A572-42 (42 ksi)	
L24	49.750-49.083	0.667	P30x0.675	A572-42 (42 ksi)	
L25	49.083-48.833	0.250	P30x0.875	A572-42 (42 ksi)	
L26	48.833-43.833	5.000	P30x0.875	A572-42 (42 ksi)	
L27	43.833-42.000	1.833	P30x0.875	A572-42 (42 ksi)	
L28	42.000-41.750	0.250	P30x1	A572-42 (42 ksi)	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L29	41.750-36.750	5.000	P30x1	A572-42 (42 ksi)	
L30	36.750-34.500	2.250	P30x1	A572-42 (42 ksi)	
L31	34.500-34.250	0.250	P30x1.05	A572-42 (42 ksi)	
L32	34.250-34.000	0.250	P30x1.05	A572-42 (42 ksi)	
L33	34.000-33.750	0.250	P30x0.95	A572-42 (42 ksi)	
L34	33.750-30.000	3.750	P30x0.95	A572-42 (42 ksi)	
L35	30.000-29.750	0.250	P36x0.5875	A572-42 (42 ksi)	
L36	29.750-28.500	1.250	P36x0.5875	A572-42 (42 ksi)	
L37	28.500-28.250	0.250	P36x0.6125	A572-42 (42 ksi)	
L38	28.250-27.942	0.308	P36x0.8375	A572-42 (42 ksi)	
L39	27.942-27.692	0.250	P36x0.8375	A572-42 (42 ksi)	
L40	27.692-23.000	4.692	P36x0.8375	A572-42 (42 ksi)	
L41	23.000-22.750	0.250	P36x0.9625	A572-42 (42 ksi)	
L42	22.750-21.500	1.250	P36x0.9625	A572-42 (42 ksi)	
L43	21.500-21.250	0.250	P36x0.875	A572-42 (42 ksi)	
L44	21.250-21.000	0.250	P36x0.875	A572-42 (42 ksi)	
L45	21.000-20.750	0.250	P36x0.8	A572-42 (42 ksi)	
L46	20.750-19.000	1.750	P36x0.8	A572-42 (42 ksi)	
L47	19.000-18.750	0.250	P36x0.925	A572-42 (42 ksi)	
L48	18.750-18.500	0.250	P36x0.925	A572-42 (42 ksi)	
L49	18.500-18.250	0.250	P36x0.9	A572-42 (42 ksi)	
L50	18.250-13.250	5.000	P36x0.9	A572-42 (42 ksi)	
L51	13.250-12.700	0.550	P36x0.9	A572-42 (42 ksi)	
L52	12.700-12.350	0.350	P36x0.8875	A572-42 (42 ksi)	
L53	12.350-12.125	0.225	P36x0.8875	A572-42 (42 ksi)	
L54	12.125-12.000	0.125	P36x0.8875	A572-42 (42 ksi)	
L55	12.000-11.750	0.250	P36x1.075	A572-42 (42 ksi)	
L56	11.750-8.375	3.375	P36x1.075	A572-42 (42 ksi)	
L57	8.375-8.125	0.250	P36x1.175	A572-42 (42 ksi)	
L58	8.125-7.750	0.375	P36x1.175	A572-42 (42 ksi)	
L59	7.750-7.500	0.250	P36x1.075	A572-42	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L60	7.500-7.250	0.250	P36x1.1	(42 ksi) A572-42 (42 ksi)	
L61	7.250-4.000	3.250	P36x1.1	A572-42 (42 ksi)	
L62	4.000-3.733	0.267	P36x1.475	A572-42 (42 ksi)	
L63	3.733-3.583	0.150	P36x1.475	A572-42 (42 ksi)	
L64	3.583-3.000	0.583	P36x1.475	A572-42 (42 ksi)	
L65	3.000-2.750	0.250	P36x1.475	A572-42 (42 ksi)	
L66	2.750-1.900	0.850	P36x1.1	A572-42 (42 ksi)	
L67	1.900-1.650	0.250	P36x1.1	A572-42 (42 ksi)	
L68	1.650-0.000	1.650	P36x1.1	A572-42 (42 ksi)	

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 118.000-113.000				1	1	1			
L2 113.000-108.000				1	1	1			
L3 108.000-103.000				1	1	1			
L4 103.000-98.000				1	1	1			
L5 98.000-93.000				1	1	1			
L6 93.000-90.000				1	1	1			
L7 90.000-85.000				1	1	1			
L8 85.000-80.000				1	1	1			
L9 80.000-76.500				1	1	1			
L10 76.500-76.250				1	1	0.956504			
L11 76.250-74.000				1	1	0.956504			
L12 74.000-73.750				1	1	0.942873			
L13 73.750-68.750				1	1	0.942873			
L14 68.750-68.500				1	1	0.940396			
L15				1	1	0.976776			

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
68.500-68.250									
L16				1	1	0.976776			
68.250-64.500									
L17				1	1	0.932342			
64.500-64.250									
L18				1	1	0.932342			
64.250-63.000									
L19				1	1	0.945692			
63.000-62.750									
L20				1	1	0.945692			
62.750-60.000									
L21				1	1	1.04366			
60.000-59.750									
L22				1	1	1.04366			
59.750-54.750									
L23				1	1	1.04366			
54.750-49.750									
L24				1	1	1.04366			
49.750-49.083									
L25				1	1	0.885583			
49.083-48.833									
L26				1	1	0.885583			
48.833-43.833									
L27				1	1	0.885583			
43.833-42.000									
L28				1	1	0.877011			
42.000-41.750									
L29				1	1	0.877011			
41.750-36.750									
L30				1	1	0.877011			
36.750-34.500									
L31				1	1	0.930935			
34.500-34.250									
L32				1	1	0.930935			
34.250-34.000									
L33				1	1	0.921581			
34.000-33.750									
L34				1	1	0.921581			
33.750-30.000									
L35				1	1	1.10112			
30.000-29.750									
L36				1	1	1.10112			
29.750-28.500									
L37				1	1	1.1891			
28.500-28.250									
L38				1	1	1.01572			
28.250-27.942									
L39				1	1	1.01572			
27.942-27.692									
L40				1	1	1.01572			
27.692-23.000									
L41				1	1	0.943593			
23.000-22.750									
L42				1	1	0.943593			
22.750-21.500									
L43				1	1	0.942155			
21.500-21.250									
L44				1	1	0.942155			
21.250-21.000									

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
L45 21.000-20.750				1	1	0.977421			
L46 20.750-19.000				1	1	0.977421			
L47 19.000-18.750				1	1	0.980797			
L48 18.750-18.500				1	1	0.980797			
L49 18.500-18.250				1	1	0.982133			
L50 18.250-13.250				1	1	0.982133			
L51 13.250-12.700				1	1	0.982133			
L52 12.700-12.350				1	1	1.08499			
L53 12.350-12.125				1	1	1.08499			
L54 12.125-12.000				1	1	1.08499			
L55 12.000-11.750				1	1	0.934468			
L56 11.750-8.375				1	1	0.934468			
L57 8.375-8.125				1	1	0.836002			
L58 8.125-7.750				1	1	0.836002			
L59 7.750-7.500				1	1	0.920161			
L60 7.500-7.250				1	1	0.937204			
L61 7.250-4.000				1	1	0.937204			
L62 4.000-3.733				1	1	0.74559			
L63 3.733-3.583				1	1	0.74559			
L64 3.583-3.000				1	1	0.74559			
L65 3.000-2.750				1	1	0.74559			
L66 2.750-1.900				1	1	0.827342			
L67 1.900-1.650				1	1	0.827342			
L68 1.650-0.000				1	1	0.827342			

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

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
*										
HB158-1-08U8-S8J18(1-5/8)	A	No	Surface Ar (CaAa)	85.000 - 0.000	8	7	0.050 0.350	1.980		0.001
*										
LDF4-50A(1/2)	B	No	Surface Ar (CaAa)	80.000 - 0.000	1	1	0.370 0.390	0.630		0.000
*										
CU12PSM9P6XXX(1-1/2)	A	No	Surface Ar (CaAa)	62.000 - 0.000	1	1	-0.430 -0.400	1.600		0.002
*										
Safety Line 3/8	B	No	Surface Ar (CaAa)	118.000 - 0.000	1	1	0.250 0.260	0.375		0.000
*										
Bent PL 10"x1"	A	No	Surface Af (CaAa)	30.000 - 1.750	1	1	0.000 0.050	10.000	22.000	0.000
Bent PL 10"x1"	B	No	Surface Af (CaAa)	30.000 - 1.750	1	1	-0.050 0.000	10.000	22.000	0.000
Bent PL 10"x1"	C	No	Surface Af (CaAa)	30.000 - 1.750	1	1	0.000 0.050	10.000	22.000	0.000
*										
Bent PL 10"x1"	A	No	Surface Af (CaAa)	60.000 - 30.000	1	1	0.000 0.050	10.000	22.000	0.000
Bent PL 10"x1"	B	No	Surface Af (CaAa)	60.000 - 30.000	1	1	-0.050 0.000	10.000	22.000	0.000
Bent PL 10"x1"	C	No	Surface Af (CaAa)	60.000 - 30.000	1	1	0.000 0.050	10.000	22.000	0.000
*										
Bent PL 9"x0.75"	A	No	Surface Af (CaAa)	75.000 - 60.000	1	1	0.000 0.050	9.000	19.500	0.000
Bent PL 9"x0.75"	B	No	Surface Af (CaAa)	75.000 - 60.000	1	1	-0.050 0.000	9.000	19.500	0.000
Bent PL 9"x0.75"	C	No	Surface Af (CaAa)	75.000 - 60.000	1	1	0.000 0.050	9.000	19.500	0.000
*										
MS-450 (4.5" x 1" Plate)	A	No	Surface Af (CaAa)	20.500 - 0.000	1	1	0.300 0.350	4.500	11.000	0.000
MS-450 (4.5" x 1" Plate)	B	No	Surface Af (CaAa)	20.500 - 0.000	1	1	0.300 0.350	4.500	11.000	0.000
MS-450 (4.5" x 1" Plate)	C	No	Surface Af (CaAa)	20.500 - 0.000	1	1	0.300 0.350	4.500	11.000	0.000
*										
MS-400 (4" x 0.75" Plate)	A	No	Surface Af (CaAa)	35.500 - 30.500	1	1	0.200 0.250	4.000	9.500	0.000
MS-400 (4" x 0.75" Plate)	B	No	Surface Af (CaAa)	35.500 - 30.500	1	1	0.300 0.350	4.000	9.500	0.000
MS-400 (4" x 0.75" Plate)	C	No	Surface Af (CaAa)	35.500 - 30.500	1	1	0.300 0.350	4.000	9.500	0.000
*										
MS-400 (4" x 0.75" Plate)	A	No	Surface Af (CaAa)	65.500 - 60.500	1	1	0.300 0.350	4.000	9.500	0.000
MS-400 (4" x 0.75" Plate)	B	No	Surface Af (CaAa)	65.500 - 60.500	1	1	0.300 0.350	4.000	9.500	0.000
MS-400 (4" x 0.75" Plate)	C	No	Surface Af (CaAa)	65.500 - 60.500	1	1	0.300 0.350	4.000	9.500	0.000
*										
6" x 1" Plate	A	No	Surface Af (CaAa)	25.500 - 0.000	1	1	-0.500 -0.450	6.000	14.000	0.000
6" x 1" Plate	C	No	Surface Af (CaAa)	25.500 - 0.000	1	1	0.000 0.050	6.000	14.000	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
4" x 0.75" Plate	A	No	Surface Af (CaAa)	43.000 - 33.000	1	1	-0.200 -0.150	4.000	9.500	0.000
4" x 0.75" Plate	B	No	Surface Af (CaAa)	43.000 - 33.000	1	1	-0.200 -0.150	4.000	9.500	0.000
4" x 0.75" Plate	C	No	Surface Af (CaAa)	43.000 - 33.000	1	1	-0.200 -0.150	4.000	9.500	0.000
*										
3.75" x 1" Plate	A	No	Surface Af (CaAa)	63.000 - 60.250	1	1	0.000 0.050	3.750	9.500	0.000
3.75" x 1" Plate	B	No	Surface Af (CaAa)	63.000 - 60.250	1	1	0.000 0.050	3.750	9.500	0.000
3.75" x 1" Plate	C	No	Surface Af (CaAa)	63.000 - 60.250	1	1	0.000 0.050	3.750	9.500	0.000
*										
4.5" x 1" Plate	A	No	Surface Af (CaAa)	70.250 - 63.000	1	1	0.000 0.050	4.500	11.000	0.000
4.5" x 1" Plate	B	No	Surface Af (CaAa)	70.250 - 63.000	1	1	0.000 0.050	4.500	11.000	0.000
4.5" x 1" Plate	C	No	Surface Af (CaAa)	70.250 - 63.000	1	1	0.000 0.050	4.500	11.000	0.000
*										
4.5" x 1" Plate	A	No	Surface Af (CaAa)	29.542 - 19.500	1	1	-0.200 -0.150	4.500	11.000	0.000
4.5" x 1" Plate	B	No	Surface Af (CaAa)	30.000 - 20.000	1	1	-0.200 -0.150	4.500	11.000	0.000
4.5" x 1" Plate	C	No	Surface Af (CaAa)	30.000 - 20.000	1	1	-0.200 -0.150	4.500	11.000	0.000
*										
4" x 0.75" Plate	A	No	Surface Af (CaAa)	51.083 - 30.083	1	1	-0.500 -0.450	4.000	9.500	0.000
4" x 0.75" Plate	C	No	Surface Af (CaAa)	51.083 - 30.083	1	1	0.000 0.050	4.000	9.500	0.000
*										
4.5" x 1" Plate	A	No	Surface Af (CaAa)	29.500 - 17.000	1	1	0.000 0.050	4.500	11.000	0.000
4.5" x 1" Plate	C	No	Surface Af (CaAa)	29.500 - 17.000	1	1	0.000 0.050	4.500	11.000	0.000
*										
4.5" x 1" Plate	A	No	Surface Af (CaAa)	78.000 - 67.000	1	1	-0.200 -0.150	4.500	11.000	0.000
4.5" x 1" Plate	B	No	Surface Af (CaAa)	78.000 - 67.000	1	1	-0.200 -0.150	4.500	11.000	0.000
4.5" x 1" Plate	C	No	Surface Af (CaAa)	78.000 - 67.000	1	1	-0.200 -0.150	4.500	11.000	0.000
*										
7" x 1.25" Plate	B	No	Surface Af (CaAa)	14.875 - 5.875	1	1	-0.500 -0.450	7.000	16.500	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

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
LDF4-50A(1/2)	B	No	No	Inside Pole	114.000 - 0.000	1	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
HB114-1-08U4-M5J (1-1/4)	B	No	No	Inside Pole	114.000 - 0.000	3	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
HB114-21U3M12-XXXF(1-1/4)	B	No	No	Inside Pole	114.000 - 0.000	1	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
*									
AL5-50(7/8)	B	No	No	Inside Pole	108.000 - 0.000	6	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
HCS 6X12 4AWG(1-5/8)	B	No	No	Inside Pole	108.000 - 0.000	1	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
MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	B	No	No	Inside Pole	108.000 - 0.000	1	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
HCS 6X12 4AWG(1-5/8)	B	No	No	Inside Pole	108.000 - 0.000	1	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
*									
LDF5-50A(7/8)	C	No	No	Inside Pole	98.000 - 0.000	6	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
FB-L98B-002-75000 (3/8)	C	No	No	Inside Pole	98.000 - 0.000	1	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
PWRT-608-S(13/16")	C	No	No	Inside Pole	98.000 - 0.000	2	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
PWRT-606-S(7/8)	C	No	No	Inside Pole	98.000 - 0.000	3	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-235-XXX(3/8)	C	No	No	Inside Pole	98.000 - 0.000	1	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
2" Rigid Conduit	C	No	No	Inside Pole	98.000 - 0.000	1	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
*									
**									
**									

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	118.000-113.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.006
		C	0.000	0.000	0.000	0.000	0.000
L2	113.000-108.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.024
		C	0.000	0.000	0.000	0.000	0.000
L3	108.000-103.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.061
		C	0.000	0.000	0.000	0.000	0.000
L4	103.000-98.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.061
		C	0.000	0.000	0.000	0.000	0.000
L5	98.000-93.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.061
		C	0.000	0.000	0.000	0.000	0.044
L6	93.000-90.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.112	0.000	0.037
		C	0.000	0.000	0.000	0.000	0.026
L7	90.000-85.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.188	0.000	0.061
		C	0.000	0.000	0.000	0.000	0.044
L8	85.000-80.000	A	0.000	0.000	6.930	0.000	0.052
		B	0.000	0.000	0.188	0.000	0.061
		C	0.000	0.000	0.000	0.000	0.044
L9	80.000-76.500	A	0.000	0.000	5.976	0.000	0.036
		B	0.000	0.000	1.477	0.000	0.043
		C	0.000	0.000	1.125	0.000	0.031
L10	76.500-76.250	A	0.000	0.000	0.534	0.000	0.003
		B	0.000	0.000	0.213	0.000	0.003
		C	0.000	0.000	0.188	0.000	0.002
L11	76.250-74.000	A	0.000	0.000	6.179	0.000	0.023
		B	0.000	0.000	3.287	0.000	0.028
		C	0.000	0.000	3.061	0.000	0.020
L12	74.000-73.750	A	0.000	0.000	0.877	0.000	0.003
		B	0.000	0.000	0.556	0.000	0.003
		C	0.000	0.000	0.531	0.000	0.002
L13	73.750-68.750	A	0.000	0.000	18.556	0.000	0.052
		B	0.000	0.000	12.129	0.000	0.062
		C	0.000	0.000	11.626	0.000	0.044
L14	68.750-68.500	A	0.000	0.000	1.046	0.000	0.003
		B	0.000	0.000	0.724	0.000	0.003
		C	0.000	0.000	0.699	0.000	0.002
L15	68.500-68.250	A	0.000	0.000	1.046	0.000	0.003
		B	0.000	0.000	0.724	0.000	0.003
		C	0.000	0.000	0.699	0.000	0.002
L16	68.250-64.500	A	0.000	0.000	14.363	0.000	0.039
		B	0.000	0.000	9.542	0.000	0.047
		C	0.000	0.000	9.165	0.000	0.033
L17	64.500-64.250	A	0.000	0.000	0.996	0.000	0.003
		B	0.000	0.000	0.675	0.000	0.003
		C	0.000	0.000	0.650	0.000	0.002
L18	64.250-63.000	A	0.000	0.000	4.982	0.000	0.013
		B	0.000	0.000	3.375	0.000	0.016
		C	0.000	0.000	3.249	0.000	0.011
L19	63.000-62.750	A	0.000	0.000	0.941	0.000	0.003

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	0.620	0.000	0.003
		C	0.000	0.000	0.595	0.000	0.002
L20	62.750-60.000	A	0.000	0.000	10.284	0.000	0.033
		B	0.000	0.000	6.429	0.000	0.034
		C	0.000	0.000	6.153	0.000	0.024
L21	60.000-59.750	A	0.000	0.000	0.803	0.000	0.003
		B	0.000	0.000	0.442	0.000	0.003
		C	0.000	0.000	0.417	0.000	0.002
L22	59.750-54.750	A	0.000	0.000	16.063	0.000	0.064
		B	0.000	0.000	8.836	0.000	0.062
		C	0.000	0.000	8.333	0.000	0.044
L23	54.750-49.750	A	0.000	0.000	16.952	0.000	0.064
		B	0.000	0.000	8.836	0.000	0.062
		C	0.000	0.000	9.222	0.000	0.044
L24	49.750-49.083	A	0.000	0.000	2.588	0.000	0.009
		B	0.000	0.000	1.179	0.000	0.008
		C	0.000	0.000	1.556	0.000	0.006
L25	49.083-48.833	A	0.000	0.000	0.970	0.000	0.003
		B	0.000	0.000	0.442	0.000	0.003
		C	0.000	0.000	0.583	0.000	0.002
L26	48.833-43.833	A	0.000	0.000	19.397	0.000	0.064
		B	0.000	0.000	8.836	0.000	0.062
		C	0.000	0.000	11.667	0.000	0.044
L27	43.833-42.000	A	0.000	0.000	7.777	0.000	0.023
		B	0.000	0.000	3.906	0.000	0.023
		C	0.000	0.000	4.944	0.000	0.016
L28	42.000-41.750	A	0.000	0.000	1.137	0.000	0.003
		B	0.000	0.000	0.608	0.000	0.003
		C	0.000	0.000	0.750	0.000	0.002
L29	41.750-36.750	A	0.000	0.000	22.730	0.000	0.064
		B	0.000	0.000	12.169	0.000	0.062
		C	0.000	0.000	15.000	0.000	0.044
L30	36.750-34.500	A	0.000	0.000	10.781	0.000	0.029
		B	0.000	0.000	6.029	0.000	0.028
		C	0.000	0.000	7.303	0.000	0.020
L31	34.500-34.250	A	0.000	0.000	1.275	0.000	0.003
		B	0.000	0.000	0.747	0.000	0.003
		C	0.000	0.000	0.888	0.000	0.002
L32	34.250-34.000	A	0.000	0.000	1.275	0.000	0.003
		B	0.000	0.000	0.747	0.000	0.003
		C	0.000	0.000	0.888	0.000	0.002
L33	34.000-33.750	A	0.000	0.000	1.275	0.000	0.003
		B	0.000	0.000	0.747	0.000	0.003
		C	0.000	0.000	0.888	0.000	0.002
L34	33.750-30.000	A	0.000	0.000	16.788	0.000	0.048
		B	0.000	0.000	8.923	0.000	0.047
		C	0.000	0.000	10.991	0.000	0.033
L35	30.000-29.750	A	0.000	0.000	0.803	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	0.604	0.000	0.002
L36	29.750-28.500	A	0.000	0.000	5.547	0.000	0.016
		B	0.000	0.000	3.146	0.000	0.016
		C	0.000	0.000	3.771	0.000	0.011
L37	28.500-28.250	A	0.000	0.000	1.178	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	0.792	0.000	0.002
L38	28.250-27.942	A	0.000	0.000	1.452	0.000	0.004
		B	0.000	0.000	0.775	0.000	0.004
		C	0.000	0.000	0.975	0.000	0.003
L39	27.942-27.692	A	0.000	0.000	1.178	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003

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
		C	0.000	0.000	0.792	0.000	0.002
L40	27.692-23.000	A	0.000	0.000	24.612	0.000	0.060
		B	0.000	0.000	11.811	0.000	0.058
		C	0.000	0.000	17.358	0.000	0.041
L41	23.000-22.750	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L42	22.750-21.500	A	0.000	0.000	7.141	0.000	0.016
		B	0.000	0.000	3.146	0.000	0.016
		C	0.000	0.000	5.208	0.000	0.011
L43	21.500-21.250	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L44	21.250-21.000	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L45	21.000-20.750	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L46	20.750-19.000	A	0.000	0.000	10.747	0.000	0.022
		B	0.000	0.000	4.780	0.000	0.022
		C	0.000	0.000	7.667	0.000	0.015
L47	19.000-18.750	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L48	18.750-18.500	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L49	18.500-18.250	A	0.000	0.000	1.428	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	1.042	0.000	0.002
L50	18.250-13.250	A	0.000	0.000	25.751	0.000	0.064
		B	0.000	0.000	14.172	0.000	0.062
		C	0.000	0.000	18.021	0.000	0.044
L51	13.250-12.700	A	0.000	0.000	2.729	0.000	0.007
		B	0.000	0.000	1.921	0.000	0.007
		C	0.000	0.000	1.879	0.000	0.005
L52	12.700-12.350	A	0.000	0.000	1.737	0.000	0.004
		B	0.000	0.000	1.223	0.000	0.004
		C	0.000	0.000	1.196	0.000	0.003
L53	12.350-12.125	A	0.000	0.000	1.117	0.000	0.003
		B	0.000	0.000	0.786	0.000	0.003
		C	0.000	0.000	0.769	0.000	0.002
L54	12.125-12.000	A	0.000	0.000	0.620	0.000	0.002
		B	0.000	0.000	0.437	0.000	0.002
		C	0.000	0.000	0.427	0.000	0.001
L55	12.000-11.750	A	0.000	0.000	1.241	0.000	0.003
		B	0.000	0.000	0.873	0.000	0.003
		C	0.000	0.000	0.854	0.000	0.002
L56	11.750-8.375	A	0.000	0.000	16.749	0.000	0.043
		B	0.000	0.000	11.789	0.000	0.042
		C	0.000	0.000	11.531	0.000	0.030
L57	8.375-8.125	A	0.000	0.000	1.241	0.000	0.003
		B	0.000	0.000	0.873	0.000	0.003
		C	0.000	0.000	0.854	0.000	0.002
L58	8.125-7.750	A	0.000	0.000	1.861	0.000	0.005
		B	0.000	0.000	1.310	0.000	0.005
		C	0.000	0.000	1.281	0.000	0.003
L59	7.750-7.500	A	0.000	0.000	1.241	0.000	0.003
		B	0.000	0.000	0.873	0.000	0.003
		C	0.000	0.000	0.854	0.000	0.002

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
L60	7.500-7.250	A	0.000	0.000	1.241	0.000	0.003
		B	0.000	0.000	0.873	0.000	0.003
		C	0.000	0.000	0.854	0.000	0.002
L61	7.250-4.000	A	0.000	0.000	16.129	0.000	0.041
		B	0.000	0.000	9.523	0.000	0.040
		C	0.000	0.000	11.104	0.000	0.029
L62	4.000-3.733	A	0.000	0.000	1.325	0.000	0.003
		B	0.000	0.000	0.672	0.000	0.003
		C	0.000	0.000	0.912	0.000	0.002
L63	3.733-3.583	A	0.000	0.000	0.744	0.000	0.002
		B	0.000	0.000	0.378	0.000	0.002
		C	0.000	0.000	0.512	0.000	0.001
L64	3.583-3.000	A	0.000	0.000	2.893	0.000	0.007
		B	0.000	0.000	1.468	0.000	0.007
		C	0.000	0.000	1.992	0.000	0.005
L65	3.000-2.750	A	0.000	0.000	1.241	0.000	0.003
		B	0.000	0.000	0.629	0.000	0.003
		C	0.000	0.000	0.854	0.000	0.002
L66	2.750-1.900	A	0.000	0.000	4.218	0.000	0.011
		B	0.000	0.000	2.140	0.000	0.011
		C	0.000	0.000	2.904	0.000	0.007
L67	1.900-1.650	A	0.000	0.000	1.074	0.000	0.003
		B	0.000	0.000	0.463	0.000	0.003
		C	0.000	0.000	0.688	0.000	0.002
L68	1.650-0.000	A	0.000	0.000	5.438	0.000	0.021
		B	0.000	0.000	1.403	0.000	0.020
		C	0.000	0.000	2.888	0.000	0.015

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	118.000-113.000	A	1.445	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.633	0.000	0.022
		C		0.000	0.000	0.000	0.000	0.000
L2	113.000-108.000	A	1.439	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.626	0.000	0.040
		C		0.000	0.000	0.000	0.000	0.000
L3	108.000-103.000	A	1.432	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.620	0.000	0.077
		C		0.000	0.000	0.000	0.000	0.000
L4	103.000-98.000	A	1.425	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.613	0.000	0.077
		C		0.000	0.000	0.000	0.000	0.000
L5	98.000-93.000	A	1.418	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.605	0.000	0.077
		C		0.000	0.000	0.000	0.000	0.044
L6	93.000-90.000	A	1.412	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.960	0.000	0.046
		C		0.000	0.000	0.000	0.000	0.026
L7	90.000-85.000	A	1.406	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	1.593	0.000	0.077
		C		0.000	0.000	0.000	0.000	0.044
L8	85.000-80.000	A	1.397	0.000	0.000	10.409	0.000	0.165
		B		0.000	0.000	1.585	0.000	0.076
		C		0.000	0.000	0.000	0.000	0.044
L9	80.000-76.500	A	1.390	0.000	0.000	8.689	0.000	0.128

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
		B		0.000	0.000	3.707	0.000	0.079
		C		0.000	0.000	1.409	0.000	0.044
L10	76.500-76.250	A	1.387	0.000	0.000	0.755	0.000	0.010
		B		0.000	0.000	0.399	0.000	0.007
		C		0.000	0.000	0.235	0.000	0.004
L11	76.250-74.000	A	1.384	0.000	0.000	8.311	0.000	0.107
		B		0.000	0.000	5.106	0.000	0.075
		C		0.000	0.000	3.634	0.000	0.053
L12	74.000-73.750	A	1.382	0.000	0.000	1.134	0.000	0.014
		B		0.000	0.000	0.778	0.000	0.010
		C		0.000	0.000	0.615	0.000	0.008
L13	73.750-68.750	A	1.377	0.000	0.000	23.906	0.000	0.286
		B		0.000	0.000	16.779	0.000	0.216
		C		0.000	0.000	13.523	0.000	0.167
L14	68.750-68.500	A	1.372	0.000	0.000	1.338	0.000	0.016
		B		0.000	0.000	0.982	0.000	0.012
		C		0.000	0.000	0.819	0.000	0.010
L15	68.500-68.250	A	1.371	0.000	0.000	1.338	0.000	0.016
		B		0.000	0.000	0.981	0.000	0.012
		C		0.000	0.000	0.819	0.000	0.010
L16	68.250-64.500	A	1.367	0.000	0.000	18.417	0.000	0.222
		B		0.000	0.000	13.066	0.000	0.170
		C		0.000	0.000	10.639	0.000	0.133
L17	64.500-64.250	A	1.363	0.000	0.000	1.277	0.000	0.015
		B		0.000	0.000	0.920	0.000	0.012
		C		0.000	0.000	0.759	0.000	0.010
L18	64.250-63.000	A	1.362	0.000	0.000	6.385	0.000	0.077
		B		0.000	0.000	4.601	0.000	0.060
		C		0.000	0.000	3.794	0.000	0.048
L19	63.000-62.750	A	1.360	0.000	0.000	1.222	0.000	0.015
		B		0.000	0.000	0.865	0.000	0.012
		C		0.000	0.000	0.704	0.000	0.009
L20	62.750-60.000	A	1.357	0.000	0.000	13.800	0.000	0.176
		B		0.000	0.000	9.009	0.000	0.123
		C		0.000	0.000	7.241	0.000	0.097
L21	60.000-59.750	A	1.353	0.000	0.000	1.110	0.000	0.013
		B		0.000	0.000	0.645	0.000	0.008
		C		0.000	0.000	0.484	0.000	0.006
L22	59.750-54.750	A	1.347	0.000	0.000	22.174	0.000	0.268
		B		0.000	0.000	12.877	0.000	0.163
		C		0.000	0.000	9.681	0.000	0.115
L23	54.750-49.750	A	1.335	0.000	0.000	23.379	0.000	0.276
		B		0.000	0.000	12.841	0.000	0.162
		C		0.000	0.000	10.913	0.000	0.124
L24	49.750-49.083	A	1.328	0.000	0.000	3.571	0.000	0.040
		B		0.000	0.000	1.710	0.000	0.022
		C		0.000	0.000	1.911	0.000	0.020
L25	49.083-48.833	A	1.326	0.000	0.000	1.338	0.000	0.015
		B		0.000	0.000	0.641	0.000	0.008
		C		0.000	0.000	0.716	0.000	0.008
L26	48.833-43.833	A	1.319	0.000	0.000	26.735	0.000	0.301
		B		0.000	0.000	12.793	0.000	0.161
		C		0.000	0.000	14.305	0.000	0.150
L27	43.833-42.000	A	1.309	0.000	0.000	10.636	0.000	0.117
		B		0.000	0.000	5.530	0.000	0.066
		C		0.000	0.000	6.088	0.000	0.062
L28	42.000-41.750	A	1.306	0.000	0.000	1.547	0.000	0.017
		B		0.000	0.000	0.850	0.000	0.010
		C		0.000	0.000	0.927	0.000	0.009
L29	41.750-36.750	A	1.297	0.000	0.000	30.892	0.000	0.332
		B		0.000	0.000	16.977	0.000	0.195

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	18.510	0.000	0.185
L30	36.750-34.500	A	1.285	0.000	0.000	14.565	0.000	0.155
		B		0.000	0.000	8.310	0.000	0.094
		C		0.000	0.000	9.006	0.000	0.089
L31	34.500-34.250	A	1.280	0.000	0.000	1.713	0.000	0.018
		B		0.000	0.000	1.018	0.000	0.011
		C		0.000	0.000	1.096	0.000	0.011
L32	34.250-34.000	A	1.279	0.000	0.000	1.713	0.000	0.018
		B		0.000	0.000	1.018	0.000	0.011
		C		0.000	0.000	1.096	0.000	0.011
L33	34.000-33.750	A	1.278	0.000	0.000	1.713	0.000	0.018
		B		0.000	0.000	1.018	0.000	0.011
		C		0.000	0.000	1.096	0.000	0.011
L34	33.750-30.000	A	1.271	0.000	0.000	22.694	0.000	0.246
		B		0.000	0.000	12.360	0.000	0.145
		C		0.000	0.000	13.453	0.000	0.137
L35	30.000-29.750	A	1.262	0.000	0.000	1.095	0.000	0.013
		B		0.000	0.000	0.855	0.000	0.010
		C		0.000	0.000	0.704	0.000	0.007
L36	29.750-28.500	A	1.259	0.000	0.000	7.380	0.000	0.079
		B		0.000	0.000	4.272	0.000	0.048
		C		0.000	0.000	4.491	0.000	0.045
L37	28.500-28.250	A	1.256	0.000	0.000	1.561	0.000	0.016
		B		0.000	0.000	0.854	0.000	0.010
		C		0.000	0.000	0.946	0.000	0.009
L38	28.250-27.942	A	1.255	0.000	0.000	1.923	0.000	0.020
		B		0.000	0.000	1.052	0.000	0.012
		C		0.000	0.000	1.166	0.000	0.011
L39	27.942-27.692	A	1.253	0.000	0.000	1.561	0.000	0.016
		B		0.000	0.000	0.853	0.000	0.010
		C		0.000	0.000	0.946	0.000	0.009
L40	27.692-23.000	A	1.242	0.000	0.000	32.366	0.000	0.329
		B		0.000	0.000	15.977	0.000	0.179
		C		0.000	0.000	20.858	0.000	0.196
L41	23.000-22.750	A	1.229	0.000	0.000	1.867	0.000	0.018
		B		0.000	0.000	0.849	0.000	0.009
		C		0.000	0.000	1.255	0.000	0.011
L42	22.750-21.500	A	1.225	0.000	0.000	9.330	0.000	0.092
		B		0.000	0.000	4.242	0.000	0.047
		C		0.000	0.000	6.273	0.000	0.057
L43	21.500-21.250	A	1.221	0.000	0.000	1.865	0.000	0.018
		B		0.000	0.000	0.848	0.000	0.009
		C		0.000	0.000	1.254	0.000	0.011
L44	21.250-21.000	A	1.219	0.000	0.000	1.864	0.000	0.018
		B		0.000	0.000	0.847	0.000	0.009
		C		0.000	0.000	1.254	0.000	0.011
L45	21.000-20.750	A	1.218	0.000	0.000	1.864	0.000	0.018
		B		0.000	0.000	0.847	0.000	0.009
		C		0.000	0.000	1.254	0.000	0.011
L46	20.750-19.000	A	1.212	0.000	0.000	14.080	0.000	0.134
		B		0.000	0.000	6.521	0.000	0.069
		C		0.000	0.000	9.368	0.000	0.082
L47	19.000-18.750	A	1.206	0.000	0.000	1.886	0.000	0.018
		B		0.000	0.000	0.870	0.000	0.009
		C		0.000	0.000	1.277	0.000	0.011
L48	18.750-18.500	A	1.204	0.000	0.000	1.886	0.000	0.018
		B		0.000	0.000	0.870	0.000	0.009
		C		0.000	0.000	1.277	0.000	0.011
L49	18.500-18.250	A	1.202	0.000	0.000	1.885	0.000	0.018
		B		0.000	0.000	0.870	0.000	0.009
		C		0.000	0.000	1.277	0.000	0.011

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
L50	18.250-13.250	A	1.184	0.000	0.000	33.971	0.000	0.328
		B		0.000	0.000	19.116	0.000	0.199
		C		0.000	0.000	21.844	0.000	0.192
L51	13.250-12.700	A	1.161	0.000	0.000	3.591	0.000	0.035
		B		0.000	0.000	2.501	0.000	0.025
		C		0.000	0.000	2.262	0.000	0.020
L52	12.700-12.350	A	1.157	0.000	0.000	2.284	0.000	0.022
		B		0.000	0.000	1.590	0.000	0.016
		C		0.000	0.000	1.439	0.000	0.013
L53	12.350-12.125	A	1.155	0.000	0.000	1.467	0.000	0.014
		B		0.000	0.000	1.022	0.000	0.010
		C		0.000	0.000	0.925	0.000	0.008
L54	12.125-12.000	A	1.153	0.000	0.000	0.815	0.000	0.008
		B		0.000	0.000	0.568	0.000	0.006
		C		0.000	0.000	0.514	0.000	0.004
L55	12.000-11.750	A	1.151	0.000	0.000	1.629	0.000	0.016
		B		0.000	0.000	1.135	0.000	0.011
		C		0.000	0.000	1.027	0.000	0.009
L56	11.750-8.375	A	1.132	0.000	0.000	21.931	0.000	0.207
		B		0.000	0.000	15.260	0.000	0.150
		C		0.000	0.000	13.824	0.000	0.119
L57	8.375-8.125	A	1.110	0.000	0.000	1.619	0.000	0.015
		B		0.000	0.000	1.125	0.000	0.011
		C		0.000	0.000	1.021	0.000	0.009
L58	8.125-7.750	A	1.106	0.000	0.000	2.426	0.000	0.023
		B		0.000	0.000	1.687	0.000	0.016
		C		0.000	0.000	1.530	0.000	0.013
L59	7.750-7.500	A	1.101	0.000	0.000	1.616	0.000	0.015
		B		0.000	0.000	1.123	0.000	0.011
		C		0.000	0.000	1.019	0.000	0.009
L60	7.500-7.250	A	1.098	0.000	0.000	1.615	0.000	0.015
		B		0.000	0.000	1.123	0.000	0.011
		C		0.000	0.000	1.019	0.000	0.009
L61	7.250-4.000	A	1.068	0.000	0.000	20.900	0.000	0.189
		B		0.000	0.000	12.459	0.000	0.121
		C		0.000	0.000	13.187	0.000	0.108
L62	4.000-3.733	A	1.029	0.000	0.000	1.706	0.000	0.015
		B		0.000	0.000	0.892	0.000	0.009
		C		0.000	0.000	1.077	0.000	0.009
L63	3.733-3.583	A	1.023	0.000	0.000	0.958	0.000	0.008
		B		0.000	0.000	0.500	0.000	0.005
		C		0.000	0.000	0.605	0.000	0.005
L64	3.583-3.000	A	1.013	0.000	0.000	3.715	0.000	0.032
		B		0.000	0.000	1.940	0.000	0.019
		C		0.000	0.000	2.346	0.000	0.019
L65	3.000-2.750	A	0.999	0.000	0.000	1.590	0.000	0.014
		B		0.000	0.000	0.829	0.000	0.008
		C		0.000	0.000	1.004	0.000	0.008
L66	2.750-1.900	A	0.978	0.000	0.000	5.386	0.000	0.046
		B		0.000	0.000	2.805	0.000	0.027
		C		0.000	0.000	3.403	0.000	0.026
L67	1.900-1.650	A	0.952	0.000	0.000	1.391	0.000	0.012
		B		0.000	0.000	0.634	0.000	0.007
		C		0.000	0.000	0.811	0.000	0.007
L68	1.650-0.000	A	0.882	0.000	0.000	7.247	0.000	0.067
		B		0.000	0.000	2.276	0.000	0.034
		C		0.000	0.000	3.469	0.000	0.032

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	118.000-113.000	0.369	0.004	1.320	0.014
L2	113.000-108.000	0.369	0.004	1.316	0.014
L3	108.000-103.000	0.369	0.004	1.311	0.014
L4	103.000-98.000	0.369	0.004	1.307	0.014
L5	98.000-93.000	0.369	0.004	1.302	0.014
L6	93.000-90.000	0.369	0.004	1.298	0.014
L7	90.000-85.000	0.369	0.004	1.294	0.014
L8	85.000-80.000	-4.167	-5.973	-2.334	-4.142
L9	80.000-76.500	-2.790	-4.235	-1.275	-3.097
L10	76.500-76.250	-2.063	-3.132	-1.044	-2.533
L11	76.250-74.000	-1.354	-2.075	-0.916	-2.168
L12	74.000-73.750	-1.130	-1.750	-0.813	-1.872
L13	73.750-68.750	-1.064	-1.648	-0.770	-1.771
L14	68.750-68.500	-0.937	-1.452	-0.685	-1.572
L15	68.500-68.250	-0.937	-1.452	-0.685	-1.572
L16	68.250-64.500	-1.027	-1.592	-0.749	-1.718
L17	64.500-64.250	-0.983	-1.522	-0.718	-1.644
L18	64.250-63.000	-0.983	-1.522	-0.718	-1.644
L19	63.000-62.750	-1.041	-1.613	-0.752	-1.720
L20	62.750-60.000	-1.201	-1.618	-1.026	-1.659
L21	60.000-59.750	-1.772	-2.295	-1.583	-2.313
L22	59.750-54.750	-1.772	-2.295	-1.584	-2.315
L23	54.750-49.750	-1.854	-1.592	-1.684	-1.575
L24	49.750-49.083	-2.050	0.080	-1.915	0.181
L25	49.083-48.833	-2.050	0.080	-1.915	0.181
L26	48.833-43.833	-2.050	0.080	-1.917	0.179
L27	43.833-42.000	-1.859	0.073	-1.747	0.160
L28	42.000-41.750	-1.725	0.067	-1.626	0.148
L29	41.750-36.750	-1.725	0.067	-1.628	0.146
L30	36.750-34.500	-1.737	0.086	-1.647	0.156
L31	34.500-34.250	-1.749	0.106	-1.666	0.170
L32	34.250-34.000	-1.749	0.106	-1.666	0.170
L33	34.000-33.750	-1.749	0.106	-1.666	0.170
L34	33.750-30.000	-1.965	0.076	-1.864	0.144
L35	30.000-29.750	-0.499	-2.417	-0.449	-2.491
L36	29.750-28.500	-2.024	-1.604	-1.945	-1.675
L37	28.500-28.250	-2.303	-1.445	-2.222	-1.515
L38	28.250-27.942	-2.303	-1.445	-2.222	-1.515
L39	27.942-27.692	-2.303	-1.445	-2.223	-1.515
L40	27.692-23.000	-2.485	0.106	-2.414	0.017
L41	23.000-22.750	-2.622	1.279	-2.559	1.181
L42	22.750-21.500	-2.622	1.279	-2.560	1.180
L43	21.500-21.250	-2.622	1.279	-2.560	1.179
L44	21.250-21.000	-2.622	1.279	-2.561	1.179
L45	21.000-20.750	-2.622	1.279	-2.561	1.179
L46	20.750-19.000	-2.718	1.252	-2.625	1.144
L47	19.000-18.750	-2.617	1.276	-2.521	1.158
L48	18.750-18.500	-2.617	1.276	-2.521	1.158
L49	18.500-18.250	-2.617	1.276	-2.521	1.157
L50	18.250-13.250	-2.489	0.687	-2.354	0.599
L51	13.250-12.700	-2.915	-0.213	-2.725	-0.222
L52	12.700-12.350	-2.915	-0.213	-2.725	-0.223
L53	12.350-12.125	-2.915	-0.213	-2.726	-0.224
L54	12.125-12.000	-2.915	-0.213	-2.727	-0.224
L55	12.000-11.750	-2.915	-0.213	-2.727	-0.224
L56	11.750-8.375	-2.915	-0.213	-2.731	-0.229
L57	8.375-8.125	-2.915	-0.213	-2.737	-0.234
L58	8.125-7.750	-2.915	-0.213	-2.738	-0.235

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L59	7.750-7.500	-2.915	-0.213	-2.739	-0.236
L60	7.500-7.250	-2.915	-0.213	-2.740	-0.237
L61	7.250-4.000	-2.435	0.489	-2.310	0.386
L62	4.000-3.733	-2.060	1.037	-1.979	0.868
L63	3.733-3.583	-2.060	1.037	-1.980	0.867
L64	3.583-3.000	-2.060	1.037	-1.982	0.865
L65	3.000-2.750	-2.060	1.037	-1.985	0.862
L66	2.750-1.900	-2.060	1.037	-1.990	0.858
L67	1.900-1.650	-2.302	1.374	-2.202	1.128
L68	1.650-0.000	-2.864	2.155	-2.685	1.719

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	27	Safety Line 3/8	113.00 - 118.00	1.0000	1.0000
L2	27	Safety Line 3/8	108.00 - 113.00	1.0000	1.0000
L3	27	Safety Line 3/8	103.00 - 108.00	1.0000	1.0000
L4	27	Safety Line 3/8	98.00 - 103.00	1.0000	1.0000
L5	27	Safety Line 3/8	93.00 - 98.00	1.0000	1.0000
L6	27	Safety Line 3/8	90.00 - 93.00	1.0000	1.0000
L7	27	Safety Line 3/8	85.00 - 90.00	1.0000	1.0000
L8	20	HB158-1-08U8-S8J18(1-5/8)	80.00 - 85.00	1.0000	1.0000
L8	27	Safety Line 3/8	80.00 - 85.00	1.0000	1.0000
L9	20	HB158-1-08U8-S8J18(1-5/8)	76.50 - 80.00	1.0000	1.0000
L9	23	LDF4-50A(1/2)	76.50 - 80.00	1.0000	1.0000
L9	27	Safety Line 3/8	76.50 - 80.00	1.0000	1.0000
L9	78	4.5" x 1" Plate	76.50 - 78.00	1.0000	1.0000
L9	79	4.5" x 1" Plate	76.50 - 78.00	1.0000	1.0000
L9	80	4.5" x 1" Plate	76.50 - 78.00	1.0000	1.0000
L10	20	HB158-1-08U8-S8J18(1-5/8)	76.25 - 76.50	1.0000	1.0000
L10	23	LDF4-50A(1/2)	76.25 - 76.50	1.0000	1.0000
L10	27	Safety Line 3/8	76.25 - 76.50	1.0000	1.0000
L10	78	4.5" x 1" Plate	76.25 - 76.50	1.0000	1.0000
L10	79	4.5" x 1" Plate	76.25 - 76.50	1.0000	1.0000
L10	80	4.5" x 1" Plate	76.25 - 76.50	1.0000	1.0000
L11	20	HB158-1-08U8-S8J18(1-5/8)	74.00 - 76.25	1.0000	1.0000
L11	23	LDF4-50A(1/2)	74.00 - 76.25	1.0000	1.0000
L11	27	Safety Line 3/8	74.00 - 76.25	1.0000	1.0000
L11	37	Bent PL 9"x0.75"	74.00 - 75.00	1.0000	1.0000
L11	38	Bent PL 9"x0.75"	74.00 - 75.00	1.0000	1.0000
L11	39	Bent PL 9"x0.75"	74.00 - 75.00	1.0000	1.0000
L11	78	4.5" x 1" Plate	74.00 - 76.25	1.0000	1.0000
L11	79	4.5" x 1" Plate	74.00 - 76.25	1.0000	1.0000
L11	80	4.5" x 1" Plate	74.00 - 76.25	1.0000	1.0000
L12	20	HB158-1-08U8-S8J18(1-5/8)	73.75 - 74.00	1.0000	1.0000
L12	23	LDF4-50A(1/2)	73.75 - 74.00	1.0000	1.0000
L12	27	Safety Line 3/8	73.75 - 74.00	1.0000	1.0000
L12	37	Bent PL 9"x0.75"	73.75 - 74.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L12	38	Bent PL 9"x0.75"	73.75 - 74.00	1.0000	1.0000
L12	39	Bent PL 9"x0.75"	73.75 - 74.00	1.0000	1.0000
L12	78	4.5" x 1" Plate	73.75 - 74.00	1.0000	1.0000
L12	79	4.5" x 1" Plate	73.75 - 74.00	1.0000	1.0000
L12	80	4.5" x 1" Plate	73.75 - 74.00	1.0000	1.0000
L13	20	HB158-1-08U8-S8J18(1-5/8)	68.75 - 73.75	1.0000	1.0000
L13	23	LDF4-50A(1/2)	68.75 - 73.75	1.0000	1.0000
L13	27	Safety Line 3/8	68.75 - 73.75	1.0000	1.0000
L13	37	Bent PL 9"x0.75"	68.75 - 73.75	1.0000	1.0000
L13	38	Bent PL 9"x0.75"	68.75 - 73.75	1.0000	1.0000
L13	39	Bent PL 9"x0.75"	68.75 - 73.75	1.0000	1.0000
L13	64	4.5" x 1" Plate	68.75 - 70.25	1.0000	1.0000
L13	65	4.5" x 1" Plate	68.75 - 70.25	1.0000	1.0000
L13	66	4.5" x 1" Plate	68.75 - 70.25	1.0000	1.0000
L13	78	4.5" x 1" Plate	68.75 - 73.75	1.0000	1.0000
L13	79	4.5" x 1" Plate	68.75 - 73.75	1.0000	1.0000
L13	80	4.5" x 1" Plate	68.75 - 73.75	1.0000	1.0000
L14	20	HB158-1-08U8-S8J18(1-5/8)	68.50 - 68.75	1.0000	1.0000
L14	23	LDF4-50A(1/2)	68.50 - 68.75	1.0000	1.0000
L14	27	Safety Line 3/8	68.50 - 68.75	1.0000	1.0000
L14	37	Bent PL 9"x0.75"	68.50 - 68.75	1.0000	1.0000
L14	38	Bent PL 9"x0.75"	68.50 - 68.75	1.0000	1.0000
L14	39	Bent PL 9"x0.75"	68.50 - 68.75	1.0000	1.0000
L14	64	4.5" x 1" Plate	68.50 - 68.75	1.0000	1.0000
L14	65	4.5" x 1" Plate	68.50 - 68.75	1.0000	1.0000
L14	66	4.5" x 1" Plate	68.50 - 68.75	1.0000	1.0000
L14	78	4.5" x 1" Plate	68.50 - 68.75	1.0000	1.0000
L14	79	4.5" x 1" Plate	68.50 - 68.75	1.0000	1.0000
L14	80	4.5" x 1" Plate	68.50 - 68.75	1.0000	1.0000
L15	20	HB158-1-08U8-S8J18(1-5/8)	68.25 - 68.50	1.0000	1.0000
L15	23	LDF4-50A(1/2)	68.25 - 68.50	1.0000	1.0000
L15	27	Safety Line 3/8	68.25 - 68.50	1.0000	1.0000
L15	37	Bent PL 9"x0.75"	68.25 - 68.50	1.0000	1.0000
L15	38	Bent PL 9"x0.75"	68.25 - 68.50	1.0000	1.0000
L15	39	Bent PL 9"x0.75"	68.25 - 68.50	1.0000	1.0000
L15	64	4.5" x 1" Plate	68.25 - 68.50	1.0000	1.0000
L15	65	4.5" x 1" Plate	68.25 - 68.50	1.0000	1.0000
L15	66	4.5" x 1" Plate	68.25 - 68.50	1.0000	1.0000
L15	78	4.5" x 1" Plate	68.25 - 68.50	1.0000	1.0000
L15	79	4.5" x 1" Plate	68.25 - 68.50	1.0000	1.0000
L15	80	4.5" x 1" Plate	68.25 - 68.50	1.0000	1.0000
L16	20	HB158-1-08U8-S8J18(1-5/8)	64.50 - 68.25	1.0000	1.0000
L16	23	LDF4-50A(1/2)	64.50 - 68.25	1.0000	1.0000
L16	27	Safety Line 3/8	64.50 - 68.25	1.0000	1.0000
L16	37	Bent PL 9"x0.75"	64.50 - 68.25	1.0000	1.0000
L16	38	Bent PL 9"x0.75"	64.50 - 68.25	1.0000	1.0000
L16	39	Bent PL 9"x0.75"	64.50 - 68.25	1.0000	1.0000
L16	49	MS-400 (4" x 0.75" Plate)	64.50 - 65.50	1.0000	1.0000
L16	50	MS-400 (4" x 0.75" Plate)	64.50 - 65.50	1.0000	1.0000
L16	51	MS-400 (4" x 0.75" Plate)	64.50 - 65.50	1.0000	1.0000
L16	64	4.5" x 1" Plate	64.50 - 68.25	1.0000	1.0000
L16	65	4.5" x 1" Plate	64.50 - 68.25	1.0000	1.0000
L16	66	4.5" x 1" Plate	64.50 - 68.25	1.0000	1.0000
L16	78	4.5" x 1" Plate	67.00 - 68.25	1.0000	1.0000
L16	79	4.5" x 1" Plate	67.00 - 68.25	1.0000	1.0000
L16	80	4.5" x 1" Plate	67.00 - 68.25	1.0000	1.0000
L17	20	HB158-1-08U8-S8J18(1-5/8)	64.25 - 64.50	1.0000	1.0000
L17	23	LDF4-50A(1/2)	64.25 - 64.50	1.0000	1.0000
L17	27	Safety Line 3/8	64.25 - 64.50	1.0000	1.0000
L17	37	Bent PL 9"x0.75"	64.25 - 64.50	1.0000	1.0000
L17	38	Bent PL 9"x0.75"	64.25 - 64.50	1.0000	1.0000
L17	39	Bent PL 9"x0.75"	64.25 - 64.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L17	49	MS-400 (4" x 0.75" Plate)	64.25 - 64.50	1.0000	1.0000
L17	50	MS-400 (4" x 0.75" Plate)	64.25 - 64.50	1.0000	1.0000
L17	51	MS-400 (4" x 0.75" Plate)	64.25 - 64.50	1.0000	1.0000
L17	64	4.5" x 1" Plate	64.25 - 64.50	1.0000	1.0000
L17	65	4.5" x 1" Plate	64.25 - 64.50	1.0000	1.0000
L17	66	4.5" x 1" Plate	64.25 - 64.50	1.0000	1.0000
L18	20	HB158-1-08U8-S8J18(1-5/8)	63.00 - 64.25	1.0000	1.0000
L18	23	LDF4-50A(1/2)	63.00 - 64.25	1.0000	1.0000
L18	27	Safety Line 3/8	63.00 - 64.25	1.0000	1.0000
L18	37	Bent PL 9"x0.75"	63.00 - 64.25	1.0000	1.0000
L18	38	Bent PL 9"x0.75"	63.00 - 64.25	1.0000	1.0000
L18	39	Bent PL 9"x0.75"	63.00 - 64.25	1.0000	1.0000
L18	49	MS-400 (4" x 0.75" Plate)	63.00 - 64.25	1.0000	1.0000
L18	50	MS-400 (4" x 0.75" Plate)	63.00 - 64.25	1.0000	1.0000
L18	51	MS-400 (4" x 0.75" Plate)	63.00 - 64.25	1.0000	1.0000
L18	64	4.5" x 1" Plate	63.00 - 64.25	1.0000	1.0000
L18	65	4.5" x 1" Plate	63.00 - 64.25	1.0000	1.0000
L18	66	4.5" x 1" Plate	63.00 - 64.25	1.0000	1.0000
L19	20	HB158-1-08U8-S8J18(1-5/8)	62.75 - 63.00	1.0000	1.0000
L19	23	LDF4-50A(1/2)	62.75 - 63.00	1.0000	1.0000
L19	27	Safety Line 3/8	62.75 - 63.00	1.0000	1.0000
L19	37	Bent PL 9"x0.75"	62.75 - 63.00	1.0000	1.0000
L19	38	Bent PL 9"x0.75"	62.75 - 63.00	1.0000	1.0000
L19	39	Bent PL 9"x0.75"	62.75 - 63.00	1.0000	1.0000
L19	49	MS-400 (4" x 0.75" Plate)	62.75 - 63.00	1.0000	1.0000
L19	50	MS-400 (4" x 0.75" Plate)	62.75 - 63.00	1.0000	1.0000
L19	51	MS-400 (4" x 0.75" Plate)	62.75 - 63.00	1.0000	1.0000
L19	60	3.75" x 1" Plate	62.75 - 63.00	1.0000	1.0000
L19	61	3.75" x 1" Plate	62.75 - 63.00	1.0000	1.0000
L19	62	3.75" x 1" Plate	62.75 - 63.00	1.0000	1.0000
L20	20	HB158-1-08U8-S8J18(1-5/8)	60.00 - 62.75	1.0000	1.0000
L20	23	LDF4-50A(1/2)	60.00 - 62.75	1.0000	1.0000
L20	25	CU12PSM9P6XXX(1-1/2)	60.00 - 62.00	1.0000	1.0000
L20	27	Safety Line 3/8	60.00 - 62.75	1.0000	1.0000
L20	37	Bent PL 9"x0.75"	60.00 - 62.75	1.0000	1.0000
L20	38	Bent PL 9"x0.75"	60.00 - 62.75	1.0000	1.0000
L20	39	Bent PL 9"x0.75"	60.00 - 62.75	1.0000	1.0000
L20	49	MS-400 (4" x 0.75" Plate)	60.50 - 62.75	1.0000	1.0000
L20	50	MS-400 (4" x 0.75" Plate)	60.50 - 62.75	1.0000	1.0000
L20	51	MS-400 (4" x 0.75" Plate)	60.50 - 62.75	1.0000	1.0000
L20	60	3.75" x 1" Plate	60.25 - 62.75	1.0000	1.0000
L20	61	3.75" x 1" Plate	60.25 - 62.75	1.0000	1.0000
L20	62	3.75" x 1" Plate	60.25 - 62.75	1.0000	1.0000
L21	20	HB158-1-08U8-S8J18(1-5/8)	59.75 - 60.00	1.0000	1.0000
L21	23	LDF4-50A(1/2)	59.75 - 60.00	1.0000	1.0000
L21	25	CU12PSM9P6XXX(1-1/2)	59.75 - 60.00	1.0000	1.0000
L21	27	Safety Line 3/8	59.75 - 60.00	1.0000	1.0000
L21	33	Bent PL 10"x1"	59.75 - 60.00	1.0000	1.0000
L21	34	Bent PL 10"x1"	59.75 - 60.00	1.0000	1.0000
L21	35	Bent PL 10"x1"	59.75 - 60.00	1.0000	1.0000
L22	20	HB158-1-08U8-S8J18(1-5/8)	54.75 - 59.75	1.0000	1.0000
L22	23	LDF4-50A(1/2)	54.75 - 59.75	1.0000	1.0000
L22	25	CU12PSM9P6XXX(1-1/2)	54.75 - 59.75	1.0000	1.0000
L22	27	Safety Line 3/8	54.75 - 59.75	1.0000	1.0000
L22	33	Bent PL 10"x1"	54.75 - 59.75	1.0000	1.0000
L22	34	Bent PL 10"x1"	54.75 - 59.75	1.0000	1.0000
L22	35	Bent PL 10"x1"	54.75 - 59.75	1.0000	1.0000
L23	20	HB158-1-08U8-S8J18(1-5/8)	49.75 - 54.75	1.0000	1.0000
L23	23	LDF4-50A(1/2)	49.75 - 54.75	1.0000	1.0000
L23	25	CU12PSM9P6XXX(1-1/2)	49.75 - 54.75	1.0000	1.0000
L23	27	Safety Line 3/8	49.75 - 54.75	1.0000	1.0000
L23	33	Bent PL 10"x1"	49.75 - 54.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L23	34	Bent PL 10"x1"	49.75 - 54.75	1.0000	1.0000
L23	35	Bent PL 10"x1"	49.75 - 54.75	1.0000	1.0000
L23	72	4" x 0.75" Plate	49.75 - 51.08	1.0000	1.0000
L23	73	4" x 0.75" Plate	49.75 - 51.08	1.0000	1.0000
L24	20	HB158-1-08U8-S8J18(1-5/8)	49.08 - 49.75	1.0000	1.0000
L24	23	LDF4-50A(1/2)	49.08 - 49.75	1.0000	1.0000
L24	25	CU12PSM9P6XXX(1-1/2)	49.08 - 49.75	1.0000	1.0000
L24	27	Safety Line 3/8	49.08 - 49.75	1.0000	1.0000
L24	33	Bent PL 10"x1"	49.08 - 49.75	1.0000	1.0000
L24	34	Bent PL 10"x1"	49.08 - 49.75	1.0000	1.0000
L24	35	Bent PL 10"x1"	49.08 - 49.75	1.0000	1.0000
L24	72	4" x 0.75" Plate	49.08 - 49.75	1.0000	1.0000
L24	73	4" x 0.75" Plate	49.08 - 49.75	1.0000	1.0000
L25	20	HB158-1-08U8-S8J18(1-5/8)	48.83 - 49.08	1.0000	1.0000
L25	23	LDF4-50A(1/2)	48.83 - 49.08	1.0000	1.0000
L25	25	CU12PSM9P6XXX(1-1/2)	48.83 - 49.08	1.0000	1.0000
L25	27	Safety Line 3/8	48.83 - 49.08	1.0000	1.0000
L25	33	Bent PL 10"x1"	48.83 - 49.08	1.0000	1.0000
L25	34	Bent PL 10"x1"	48.83 - 49.08	1.0000	1.0000
L25	35	Bent PL 10"x1"	48.83 - 49.08	1.0000	1.0000
L25	72	4" x 0.75" Plate	48.83 - 49.08	1.0000	1.0000
L25	73	4" x 0.75" Plate	48.83 - 49.08	1.0000	1.0000
L26	20	HB158-1-08U8-S8J18(1-5/8)	43.83 - 48.83	1.0000	1.0000
L26	23	LDF4-50A(1/2)	43.83 - 48.83	1.0000	1.0000
L26	25	CU12PSM9P6XXX(1-1/2)	43.83 - 48.83	1.0000	1.0000
L26	27	Safety Line 3/8	43.83 - 48.83	1.0000	1.0000
L26	33	Bent PL 10"x1"	43.83 - 48.83	1.0000	1.0000
L26	34	Bent PL 10"x1"	43.83 - 48.83	1.0000	1.0000
L26	35	Bent PL 10"x1"	43.83 - 48.83	1.0000	1.0000
L26	72	4" x 0.75" Plate	43.83 - 48.83	1.0000	1.0000
L26	73	4" x 0.75" Plate	43.83 - 48.83	1.0000	1.0000
L27	20	HB158-1-08U8-S8J18(1-5/8)	42.00 - 43.83	1.0000	1.0000
L27	23	LDF4-50A(1/2)	42.00 - 43.83	1.0000	1.0000
L27	25	CU12PSM9P6XXX(1-1/2)	42.00 - 43.83	1.0000	1.0000
L27	27	Safety Line 3/8	42.00 - 43.83	1.0000	1.0000
L27	33	Bent PL 10"x1"	42.00 - 43.83	1.0000	1.0000
L27	34	Bent PL 10"x1"	42.00 - 43.83	1.0000	1.0000
L27	35	Bent PL 10"x1"	42.00 - 43.83	1.0000	1.0000
L27	56	4" x 0.75" Plate	42.00 - 43.00	1.0000	1.0000
L27	57	4" x 0.75" Plate	42.00 - 43.00	1.0000	1.0000
L27	58	4" x 0.75" Plate	42.00 - 43.00	1.0000	1.0000
L27	72	4" x 0.75" Plate	42.00 - 43.83	1.0000	1.0000
L27	73	4" x 0.75" Plate	42.00 - 43.83	1.0000	1.0000
L28	20	HB158-1-08U8-S8J18(1-5/8)	41.75 - 42.00	1.0000	1.0000
L28	23	LDF4-50A(1/2)	41.75 - 42.00	1.0000	1.0000
L28	25	CU12PSM9P6XXX(1-1/2)	41.75 - 42.00	1.0000	1.0000
L28	27	Safety Line 3/8	41.75 - 42.00	1.0000	1.0000
L28	33	Bent PL 10"x1"	41.75 - 42.00	1.0000	1.0000
L28	34	Bent PL 10"x1"	41.75 - 42.00	1.0000	1.0000
L28	35	Bent PL 10"x1"	41.75 - 42.00	1.0000	1.0000
L28	56	4" x 0.75" Plate	41.75 - 42.00	1.0000	1.0000
L28	57	4" x 0.75" Plate	41.75 - 42.00	1.0000	1.0000
L28	58	4" x 0.75" Plate	41.75 - 42.00	1.0000	1.0000
L28	72	4" x 0.75" Plate	41.75 - 42.00	1.0000	1.0000
L28	73	4" x 0.75" Plate	41.75 - 42.00	1.0000	1.0000
L29	20	HB158-1-08U8-S8J18(1-5/8)	36.75 - 41.75	1.0000	1.0000
L29	23	LDF4-50A(1/2)	36.75 - 41.75	1.0000	1.0000
L29	25	CU12PSM9P6XXX(1-1/2)	36.75 - 41.75	1.0000	1.0000
L29	27	Safety Line 3/8	36.75 - 41.75	1.0000	1.0000
L29	33	Bent PL 10"x1"	36.75 - 41.75	1.0000	1.0000
L29	34	Bent PL 10"x1"	36.75 - 41.75	1.0000	1.0000
L29	35	Bent PL 10"x1"	36.75 - 41.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L29	56	4" x 0.75" Plate	36.75 - 41.75	1.0000	1.0000
L29	57	4" x 0.75" Plate	36.75 - 41.75	1.0000	1.0000
L29	58	4" x 0.75" Plate	36.75 - 41.75	1.0000	1.0000
L29	72	4" x 0.75" Plate	36.75 - 41.75	1.0000	1.0000
L29	73	4" x 0.75" Plate	36.75 - 41.75	1.0000	1.0000
L30	20	HB158-1-08U8-S8J18(1-5/8)	34.50 - 36.75	1.0000	1.0000
L30	23	LDF4-50A(1/2)	34.50 - 36.75	1.0000	1.0000
L30	25	CU12PSM9P6XXX(1-1/2)	34.50 - 36.75	1.0000	1.0000
L30	27	Safety Line 3/8	34.50 - 36.75	1.0000	1.0000
L30	33	Bent PL 10"x1"	34.50 - 36.75	1.0000	1.0000
L30	34	Bent PL 10"x1"	34.50 - 36.75	1.0000	1.0000
L30	35	Bent PL 10"x1"	34.50 - 36.75	1.0000	1.0000
L30	45	MS-400 (4" x 0.75" Plate)	34.50 - 35.50	1.0000	1.0000
L30	46	MS-400 (4" x 0.75" Plate)	34.50 - 35.50	1.0000	1.0000
L30	47	MS-400 (4" x 0.75" Plate)	34.50 - 35.50	1.0000	1.0000
L30	56	4" x 0.75" Plate	34.50 - 36.75	1.0000	1.0000
L30	57	4" x 0.75" Plate	34.50 - 36.75	1.0000	1.0000
L30	58	4" x 0.75" Plate	34.50 - 36.75	1.0000	1.0000
L30	72	4" x 0.75" Plate	34.50 - 36.75	1.0000	1.0000
L30	73	4" x 0.75" Plate	34.50 - 36.75	1.0000	1.0000
L31	20	HB158-1-08U8-S8J18(1-5/8)	34.25 - 34.50	1.0000	1.0000
L31	23	LDF4-50A(1/2)	34.25 - 34.50	1.0000	1.0000
L31	25	CU12PSM9P6XXX(1-1/2)	34.25 - 34.50	1.0000	1.0000
L31	27	Safety Line 3/8	34.25 - 34.50	1.0000	1.0000
L31	33	Bent PL 10"x1"	34.25 - 34.50	1.0000	1.0000
L31	34	Bent PL 10"x1"	34.25 - 34.50	1.0000	1.0000
L31	35	Bent PL 10"x1"	34.25 - 34.50	1.0000	1.0000
L31	45	MS-400 (4" x 0.75" Plate)	34.25 - 34.50	1.0000	1.0000
L31	46	MS-400 (4" x 0.75" Plate)	34.25 - 34.50	1.0000	1.0000
L31	47	MS-400 (4" x 0.75" Plate)	34.25 - 34.50	1.0000	1.0000
L31	56	4" x 0.75" Plate	34.25 - 34.50	1.0000	1.0000
L31	57	4" x 0.75" Plate	34.25 - 34.50	1.0000	1.0000
L31	58	4" x 0.75" Plate	34.25 - 34.50	1.0000	1.0000
L31	72	4" x 0.75" Plate	34.25 - 34.50	1.0000	1.0000
L31	73	4" x 0.75" Plate	34.25 - 34.50	1.0000	1.0000
L32	20	HB158-1-08U8-S8J18(1-5/8)	34.00 - 34.25	1.0000	1.0000
L32	23	LDF4-50A(1/2)	34.00 - 34.25	1.0000	1.0000
L32	25	CU12PSM9P6XXX(1-1/2)	34.00 - 34.25	1.0000	1.0000
L32	27	Safety Line 3/8	34.00 - 34.25	1.0000	1.0000
L32	33	Bent PL 10"x1"	34.00 - 34.25	1.0000	1.0000
L32	34	Bent PL 10"x1"	34.00 - 34.25	1.0000	1.0000
L32	35	Bent PL 10"x1"	34.00 - 34.25	1.0000	1.0000
L32	45	MS-400 (4" x 0.75" Plate)	34.00 - 34.25	1.0000	1.0000
L32	46	MS-400 (4" x 0.75" Plate)	34.00 - 34.25	1.0000	1.0000
L32	47	MS-400 (4" x 0.75" Plate)	34.00 - 34.25	1.0000	1.0000
L32	56	4" x 0.75" Plate	34.00 - 34.25	1.0000	1.0000
L32	57	4" x 0.75" Plate	34.00 - 34.25	1.0000	1.0000
L32	58	4" x 0.75" Plate	34.00 - 34.25	1.0000	1.0000
L32	72	4" x 0.75" Plate	34.00 - 34.25	1.0000	1.0000
L32	73	4" x 0.75" Plate	34.00 - 34.25	1.0000	1.0000
L33	20	HB158-1-08U8-S8J18(1-5/8)	33.75 - 34.00	1.0000	1.0000
L33	23	LDF4-50A(1/2)	33.75 - 34.00	1.0000	1.0000
L33	25	CU12PSM9P6XXX(1-1/2)	33.75 - 34.00	1.0000	1.0000
L33	27	Safety Line 3/8	33.75 - 34.00	1.0000	1.0000
L33	33	Bent PL 10"x1"	33.75 - 34.00	1.0000	1.0000
L33	34	Bent PL 10"x1"	33.75 - 34.00	1.0000	1.0000
L33	35	Bent PL 10"x1"	33.75 - 34.00	1.0000	1.0000
L33	45	MS-400 (4" x 0.75" Plate)	33.75 - 34.00	1.0000	1.0000
L33	46	MS-400 (4" x 0.75" Plate)	33.75 - 34.00	1.0000	1.0000
L33	47	MS-400 (4" x 0.75" Plate)	33.75 - 34.00	1.0000	1.0000
L33	56	4" x 0.75" Plate	33.75 - 34.00	1.0000	1.0000
L33	57	4" x 0.75" Plate	33.75 - 34.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L33	58	4" x 0.75" Plate	33.75 - 34.00	1.0000	1.0000
L33	72	4" x 0.75" Plate	33.75 - 34.00	1.0000	1.0000
L33	73	4" x 0.75" Plate	33.75 - 34.00	1.0000	1.0000
L34	20	HB158-1-08U8-S8J18(1-5/8)	30.00 - 33.75	1.0000	1.0000
L34	23	LDF4-50A(1/2)	30.00 - 33.75	1.0000	1.0000
L34	25	CU12PSM9P6XXX(1-1/2)	30.00 - 33.75	1.0000	1.0000
L34	27	Safety Line 3/8	30.00 - 33.75	1.0000	1.0000
L34	33	Bent PL 10"x1"	30.00 - 33.75	1.0000	1.0000
L34	34	Bent PL 10"x1"	30.00 - 33.75	1.0000	1.0000
L34	35	Bent PL 10"x1"	30.00 - 33.75	1.0000	1.0000
L34	45	MS-400 (4" x 0.75" Plate)	30.50 - 33.75	1.0000	1.0000
L34	46	MS-400 (4" x 0.75" Plate)	30.50 - 33.75	1.0000	1.0000
L34	47	MS-400 (4" x 0.75" Plate)	30.50 - 33.75	1.0000	1.0000
L34	56	4" x 0.75" Plate	33.00 - 33.75	1.0000	1.0000
L34	57	4" x 0.75" Plate	33.00 - 33.75	1.0000	1.0000
L34	58	4" x 0.75" Plate	33.00 - 33.75	1.0000	1.0000
L34	72	4" x 0.75" Plate	30.08 - 33.75	1.0000	1.0000
L34	73	4" x 0.75" Plate	30.08 - 33.75	1.0000	1.0000
L35	20	HB158-1-08U8-S8J18(1-5/8)	29.75 - 30.00	1.0000	1.0000
L35	23	LDF4-50A(1/2)	29.75 - 30.00	1.0000	1.0000
L35	25	CU12PSM9P6XXX(1-1/2)	29.75 - 30.00	1.0000	1.0000
L35	27	Safety Line 3/8	29.75 - 30.00	1.0000	1.0000
L35	29	Bent PL 10"x1"	29.75 - 30.00	1.0000	1.0000
L35	30	Bent PL 10"x1"	29.75 - 30.00	1.0000	1.0000
L35	31	Bent PL 10"x1"	29.75 - 30.00	1.0000	1.0000
L35	69	4.5" x 1" Plate	29.75 - 30.00	1.0000	1.0000
L35	70	4.5" x 1" Plate	29.75 - 30.00	1.0000	1.0000
L36	20	HB158-1-08U8-S8J18(1-5/8)	28.50 - 29.75	1.0000	1.0000
L36	23	LDF4-50A(1/2)	28.50 - 29.75	1.0000	1.0000
L36	25	CU12PSM9P6XXX(1-1/2)	28.50 - 29.75	1.0000	1.0000
L36	27	Safety Line 3/8	28.50 - 29.75	1.0000	1.0000
L36	29	Bent PL 10"x1"	28.50 - 29.75	1.0000	1.0000
L36	30	Bent PL 10"x1"	28.50 - 29.75	1.0000	1.0000
L36	31	Bent PL 10"x1"	28.50 - 29.75	1.0000	1.0000
L36	68	4.5" x 1" Plate	28.50 - 29.54	1.0000	1.0000
L36	69	4.5" x 1" Plate	28.50 - 29.75	1.0000	1.0000
L36	70	4.5" x 1" Plate	28.50 - 29.75	1.0000	1.0000
L36	75	4.5" x 1" Plate	28.50 - 29.50	1.0000	1.0000
L36	76	4.5" x 1" Plate	28.50 - 29.50	1.0000	1.0000
L37	20	HB158-1-08U8-S8J18(1-5/8)	28.25 - 28.50	1.0000	1.0000
L37	23	LDF4-50A(1/2)	28.25 - 28.50	1.0000	1.0000
L37	25	CU12PSM9P6XXX(1-1/2)	28.25 - 28.50	1.0000	1.0000
L37	27	Safety Line 3/8	28.25 - 28.50	1.0000	1.0000
L37	29	Bent PL 10"x1"	28.25 - 28.50	1.0000	1.0000
L37	30	Bent PL 10"x1"	28.25 - 28.50	1.0000	1.0000
L37	31	Bent PL 10"x1"	28.25 - 28.50	1.0000	1.0000
L37	68	4.5" x 1" Plate	28.25 - 28.50	1.0000	1.0000
L37	69	4.5" x 1" Plate	28.25 - 28.50	1.0000	1.0000
L37	70	4.5" x 1" Plate	28.25 - 28.50	1.0000	1.0000
L37	75	4.5" x 1" Plate	28.25 - 28.50	1.0000	1.0000
L37	76	4.5" x 1" Plate	28.25 - 28.50	1.0000	1.0000
L38	20	HB158-1-08U8-S8J18(1-5/8)	27.94 - 28.25	1.0000	1.0000
L38	23	LDF4-50A(1/2)	27.94 - 28.25	1.0000	1.0000
L38	25	CU12PSM9P6XXX(1-1/2)	27.94 - 28.25	1.0000	1.0000
L38	27	Safety Line 3/8	27.94 - 28.25	1.0000	1.0000
L38	29	Bent PL 10"x1"	27.94 - 28.25	1.0000	1.0000
L38	30	Bent PL 10"x1"	27.94 - 28.25	1.0000	1.0000
L38	31	Bent PL 10"x1"	27.94 - 28.25	1.0000	1.0000
L38	68	4.5" x 1" Plate	27.94 - 28.25	1.0000	1.0000
L38	69	4.5" x 1" Plate	27.94 - 28.25	1.0000	1.0000
L38	70	4.5" x 1" Plate	27.94 - 28.25	1.0000	1.0000
L38	75	4.5" x 1" Plate	27.94 - 28.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L38	76	4.5" x 1" Plate	27.94 - 28.25	1.0000	1.0000
L39	20	HB158-1-08U8-S8J18(1-5/8)	27.69 - 27.94	1.0000	1.0000
L39	23	LDF4-50A(1/2)	27.69 - 27.94	1.0000	1.0000
L39	25	CU12PSM9P6XXX(1-1/2)	27.69 - 27.94	1.0000	1.0000
L39	27	Safety Line 3/8	27.69 - 27.94	1.0000	1.0000
L39	29	Bent PL 10"x1"	27.69 - 27.94	1.0000	1.0000
L39	30	Bent PL 10"x1"	27.69 - 27.94	1.0000	1.0000
L39	31	Bent PL 10"x1"	27.69 - 27.94	1.0000	1.0000
L39	68	4.5" x 1" Plate	27.69 - 27.94	1.0000	1.0000
L39	69	4.5" x 1" Plate	27.69 - 27.94	1.0000	1.0000
L39	70	4.5" x 1" Plate	27.69 - 27.94	1.0000	1.0000
L39	75	4.5" x 1" Plate	27.69 - 27.94	1.0000	1.0000
L39	76	4.5" x 1" Plate	27.69 - 27.94	1.0000	1.0000
L40	20	HB158-1-08U8-S8J18(1-5/8)	23.00 - 27.69	1.0000	1.0000
L40	23	LDF4-50A(1/2)	23.00 - 27.69	1.0000	1.0000
L40	25	CU12PSM9P6XXX(1-1/2)	23.00 - 27.69	1.0000	1.0000
L40	27	Safety Line 3/8	23.00 - 27.69	1.0000	1.0000
L40	29	Bent PL 10"x1"	23.00 - 27.69	1.0000	1.0000
L40	30	Bent PL 10"x1"	23.00 - 27.69	1.0000	1.0000
L40	31	Bent PL 10"x1"	23.00 - 27.69	1.0000	1.0000
L40	53	6" x 1" Plate	23.00 - 25.50	1.0000	1.0000
L40	54	6" x 1" Plate	23.00 - 25.50	1.0000	1.0000
L40	68	4.5" x 1" Plate	23.00 - 27.69	1.0000	1.0000
L40	69	4.5" x 1" Plate	23.00 - 27.69	1.0000	1.0000
L40	70	4.5" x 1" Plate	23.00 - 27.69	1.0000	1.0000
L40	75	4.5" x 1" Plate	23.00 - 27.69	1.0000	1.0000
L40	76	4.5" x 1" Plate	23.00 - 27.69	1.0000	1.0000
L41	20	HB158-1-08U8-S8J18(1-5/8)	22.75 - 23.00	1.0000	1.0000
L41	23	LDF4-50A(1/2)	22.75 - 23.00	1.0000	1.0000
L41	25	CU12PSM9P6XXX(1-1/2)	22.75 - 23.00	1.0000	1.0000
L41	27	Safety Line 3/8	22.75 - 23.00	1.0000	1.0000
L41	29	Bent PL 10"x1"	22.75 - 23.00	1.0000	1.0000
L41	30	Bent PL 10"x1"	22.75 - 23.00	1.0000	1.0000
L41	31	Bent PL 10"x1"	22.75 - 23.00	1.0000	1.0000
L41	53	6" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L41	54	6" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L41	68	4.5" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L41	69	4.5" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L41	70	4.5" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L41	75	4.5" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L41	76	4.5" x 1" Plate	22.75 - 23.00	1.0000	1.0000
L42	20	HB158-1-08U8-S8J18(1-5/8)	21.50 - 22.75	1.0000	1.0000
L42	23	LDF4-50A(1/2)	21.50 - 22.75	1.0000	1.0000
L42	25	CU12PSM9P6XXX(1-1/2)	21.50 - 22.75	1.0000	1.0000
L42	27	Safety Line 3/8	21.50 - 22.75	1.0000	1.0000
L42	29	Bent PL 10"x1"	21.50 - 22.75	1.0000	1.0000
L42	30	Bent PL 10"x1"	21.50 - 22.75	1.0000	1.0000
L42	31	Bent PL 10"x1"	21.50 - 22.75	1.0000	1.0000
L42	53	6" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L42	54	6" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L42	68	4.5" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L42	69	4.5" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L42	70	4.5" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L42	75	4.5" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L42	76	4.5" x 1" Plate	21.50 - 22.75	1.0000	1.0000
L43	20	HB158-1-08U8-S8J18(1-5/8)	21.25 - 21.50	1.0000	1.0000
L43	23	LDF4-50A(1/2)	21.25 - 21.50	1.0000	1.0000
L43	25	CU12PSM9P6XXX(1-1/2)	21.25 - 21.50	1.0000	1.0000
L43	27	Safety Line 3/8	21.25 - 21.50	1.0000	1.0000
L43	29	Bent PL 10"x1"	21.25 - 21.50	1.0000	1.0000
L43	30	Bent PL 10"x1"	21.25 - 21.50	1.0000	1.0000
L43	31	Bent PL 10"x1"	21.25 - 21.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L43	53	6" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L43	54	6" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L43	68	4.5" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L43	69	4.5" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L43	70	4.5" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L43	75	4.5" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L43	76	4.5" x 1" Plate	21.25 - 21.50	1.0000	1.0000
L44	20	HB158-1-08U8-S8J18(1-5/8)	21.00 - 21.25	1.0000	1.0000
L44	23	LDF4-50A(1/2)	21.00 - 21.25	1.0000	1.0000
L44	25	CU12PSM9P6XXX(1-1/2)	21.00 - 21.25	1.0000	1.0000
L44	27	Safety Line 3/8	21.00 - 21.25	1.0000	1.0000
L44	29	Bent PL 10"x1"	21.00 - 21.25	1.0000	1.0000
L44	30	Bent PL 10"x1"	21.00 - 21.25	1.0000	1.0000
L44	31	Bent PL 10"x1"	21.00 - 21.25	1.0000	1.0000
L44	53	6" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L44	54	6" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L44	68	4.5" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L44	69	4.5" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L44	70	4.5" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L44	75	4.5" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L44	76	4.5" x 1" Plate	21.00 - 21.25	1.0000	1.0000
L45	20	HB158-1-08U8-S8J18(1-5/8)	20.75 - 21.00	1.0000	1.0000
L45	23	LDF4-50A(1/2)	20.75 - 21.00	1.0000	1.0000
L45	25	CU12PSM9P6XXX(1-1/2)	20.75 - 21.00	1.0000	1.0000
L45	27	Safety Line 3/8	20.75 - 21.00	1.0000	1.0000
L45	29	Bent PL 10"x1"	20.75 - 21.00	1.0000	1.0000
L45	30	Bent PL 10"x1"	20.75 - 21.00	1.0000	1.0000
L45	31	Bent PL 10"x1"	20.75 - 21.00	1.0000	1.0000
L45	53	6" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L45	54	6" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L45	68	4.5" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L45	69	4.5" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L45	70	4.5" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L45	75	4.5" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L45	76	4.5" x 1" Plate	20.75 - 21.00	1.0000	1.0000
L46	20	HB158-1-08U8-S8J18(1-5/8)	19.00 - 20.75	1.0000	1.0000
L46	23	LDF4-50A(1/2)	19.00 - 20.75	1.0000	1.0000
L46	25	CU12PSM9P6XXX(1-1/2)	19.00 - 20.75	1.0000	1.0000
L46	27	Safety Line 3/8	19.00 - 20.75	1.0000	1.0000
L46	29	Bent PL 10"x1"	19.00 - 20.75	1.0000	1.0000
L46	30	Bent PL 10"x1"	19.00 - 20.75	1.0000	1.0000
L46	31	Bent PL 10"x1"	19.00 - 20.75	1.0000	1.0000
L46	41	MS-450 (4.5" x 1" Plate)	19.00 - 20.50	1.0000	1.0000
L46	42	MS-450 (4.5" x 1" Plate)	19.00 - 20.50	1.0000	1.0000
L46	43	MS-450 (4.5" x 1" Plate)	19.00 - 20.50	1.0000	1.0000
L46	53	6" x 1" Plate	19.00 - 20.75	1.0000	1.0000
L46	54	6" x 1" Plate	19.00 - 20.75	1.0000	1.0000
L46	68	4.5" x 1" Plate	19.50 - 20.75	1.0000	1.0000
L46	69	4.5" x 1" Plate	20.00 - 20.75	1.0000	1.0000
L46	70	4.5" x 1" Plate	20.00 - 20.75	1.0000	1.0000
L46	75	4.5" x 1" Plate	19.00 - 20.75	1.0000	1.0000
L46	76	4.5" x 1" Plate	19.00 - 20.75	1.0000	1.0000
L47	20	HB158-1-08U8-S8J18(1-5/8)	18.75 - 19.00	1.0000	1.0000
L47	23	LDF4-50A(1/2)	18.75 - 19.00	1.0000	1.0000
L47	25	CU12PSM9P6XXX(1-1/2)	18.75 - 19.00	1.0000	1.0000
L47	27	Safety Line 3/8	18.75 - 19.00	1.0000	1.0000
L47	29	Bent PL 10"x1"	18.75 - 19.00	1.0000	1.0000
L47	30	Bent PL 10"x1"	18.75 - 19.00	1.0000	1.0000
L47	31	Bent PL 10"x1"	18.75 - 19.00	1.0000	1.0000
L47	41	MS-450 (4.5" x 1" Plate)	18.75 - 19.00	1.0000	1.0000
L47	42	MS-450 (4.5" x 1" Plate)	18.75 - 19.00	1.0000	1.0000
L47	43	MS-450 (4.5" x 1" Plate)	18.75 - 19.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L47	53	6" x 1" Plate	18.75 - 19.00	1.0000	1.0000
L47	54	6" x 1" Plate	18.75 - 19.00	1.0000	1.0000
L47	75	4.5" x 1" Plate	18.75 - 19.00	1.0000	1.0000
L47	76	4.5" x 1" Plate	18.75 - 19.00	1.0000	1.0000
L48	20	HB158-1-08U8-S8J18(1-5/8)	18.50 - 18.75	1.0000	1.0000
L48	23	LDF4-50A(1/2)	18.50 - 18.75	1.0000	1.0000
L48	25	CU12PSM9P6XXX(1-1/2)	18.50 - 18.75	1.0000	1.0000
L48	27	Safety Line 3/8	18.50 - 18.75	1.0000	1.0000
L48	29	Bent PL 10"x1"	18.50 - 18.75	1.0000	1.0000
L48	30	Bent PL 10"x1"	18.50 - 18.75	1.0000	1.0000
L48	31	Bent PL 10"x1"	18.50 - 18.75	1.0000	1.0000
L48	41	MS-450 (4.5" x 1" Plate)	18.50 - 18.75	1.0000	1.0000
L48	42	MS-450 (4.5" x 1" Plate)	18.50 - 18.75	1.0000	1.0000
L48	43	MS-450 (4.5" x 1" Plate)	18.50 - 18.75	1.0000	1.0000
L48	53	6" x 1" Plate	18.50 - 18.75	1.0000	1.0000
L48	54	6" x 1" Plate	18.50 - 18.75	1.0000	1.0000
L48	75	4.5" x 1" Plate	18.50 - 18.75	1.0000	1.0000
L48	76	4.5" x 1" Plate	18.50 - 18.75	1.0000	1.0000
L49	20	HB158-1-08U8-S8J18(1-5/8)	18.25 - 18.50	1.0000	1.0000
L49	23	LDF4-50A(1/2)	18.25 - 18.50	1.0000	1.0000
L49	25	CU12PSM9P6XXX(1-1/2)	18.25 - 18.50	1.0000	1.0000
L49	27	Safety Line 3/8	18.25 - 18.50	1.0000	1.0000
L49	29	Bent PL 10"x1"	18.25 - 18.50	1.0000	1.0000
L49	30	Bent PL 10"x1"	18.25 - 18.50	1.0000	1.0000
L49	31	Bent PL 10"x1"	18.25 - 18.50	1.0000	1.0000
L49	41	MS-450 (4.5" x 1" Plate)	18.25 - 18.50	1.0000	1.0000
L49	42	MS-450 (4.5" x 1" Plate)	18.25 - 18.50	1.0000	1.0000
L49	43	MS-450 (4.5" x 1" Plate)	18.25 - 18.50	1.0000	1.0000
L49	53	6" x 1" Plate	18.25 - 18.50	1.0000	1.0000
L49	54	6" x 1" Plate	18.25 - 18.50	1.0000	1.0000
L49	75	4.5" x 1" Plate	18.25 - 18.50	1.0000	1.0000
L49	76	4.5" x 1" Plate	18.25 - 18.50	1.0000	1.0000
L50	20	HB158-1-08U8-S8J18(1-5/8)	13.25 - 18.25	1.0000	1.0000
L50	23	LDF4-50A(1/2)	13.25 - 18.25	1.0000	1.0000
L50	25	CU12PSM9P6XXX(1-1/2)	13.25 - 18.25	1.0000	1.0000
L50	27	Safety Line 3/8	13.25 - 18.25	1.0000	1.0000
L50	29	Bent PL 10"x1"	13.25 - 18.25	1.0000	1.0000
L50	30	Bent PL 10"x1"	13.25 - 18.25	1.0000	1.0000
L50	31	Bent PL 10"x1"	13.25 - 18.25	1.0000	1.0000
L50	41	MS-450 (4.5" x 1" Plate)	13.25 - 18.25	1.0000	1.0000
L50	42	MS-450 (4.5" x 1" Plate)	13.25 - 18.25	1.0000	1.0000
L50	43	MS-450 (4.5" x 1" Plate)	13.25 - 18.25	1.0000	1.0000
L50	53	6" x 1" Plate	13.25 - 18.25	1.0000	1.0000
L50	54	6" x 1" Plate	13.25 - 18.25	1.0000	1.0000
L50	75	4.5" x 1" Plate	17.00 - 18.25	1.0000	1.0000
L50	76	4.5" x 1" Plate	17.00 - 18.25	1.0000	1.0000
L50	82	7" x 1.25" Plate	13.25 - 14.88	1.0000	1.0000
L51	20	HB158-1-08U8-S8J18(1-5/8)	12.70 - 13.25	1.0000	1.0000
L51	23	LDF4-50A(1/2)	12.70 - 13.25	1.0000	1.0000
L51	25	CU12PSM9P6XXX(1-1/2)	12.70 - 13.25	1.0000	1.0000
L51	27	Safety Line 3/8	12.70 - 13.25	1.0000	1.0000
L51	29	Bent PL 10"x1"	12.70 - 13.25	1.0000	1.0000
L51	30	Bent PL 10"x1"	12.70 - 13.25	1.0000	1.0000
L51	31	Bent PL 10"x1"	12.70 - 13.25	1.0000	1.0000
L51	41	MS-450 (4.5" x 1" Plate)	12.70 - 13.25	1.0000	1.0000
L51	42	MS-450 (4.5" x 1" Plate)	12.70 - 13.25	1.0000	1.0000
L51	43	MS-450 (4.5" x 1" Plate)	12.70 - 13.25	1.0000	1.0000
L51	53	6" x 1" Plate	12.70 - 13.25	1.0000	1.0000
L51	54	6" x 1" Plate	12.70 - 13.25	1.0000	1.0000
L51	82	7" x 1.25" Plate	12.70 - 13.25	1.0000	1.0000
L52	20	HB158-1-08U8-S8J18(1-5/8)	12.35 - 12.70	1.0000	1.0000
L52	23	LDF4-50A(1/2)	12.35 - 12.70	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L52	25	CU12PSM9P6XXX(1-1/2)	12.35 - 12.70	1.0000	1.0000
L52	27	Safety Line 3/8	12.35 - 12.70	1.0000	1.0000
L52	29	Bent PL 10"x1"	12.35 - 12.70	1.0000	1.0000
L52	30	Bent PL 10"x1"	12.35 - 12.70	1.0000	1.0000
L52	31	Bent PL 10"x1"	12.35 - 12.70	1.0000	1.0000
L52	41	MS-450 (4.5" x 1" Plate)	12.35 - 12.70	1.0000	1.0000
L52	42	MS-450 (4.5" x 1" Plate)	12.35 - 12.70	1.0000	1.0000
L52	43	MS-450 (4.5" x 1" Plate)	12.35 - 12.70	1.0000	1.0000
L52	53	6" x 1" Plate	12.35 - 12.70	1.0000	1.0000
L52	54	6" x 1" Plate	12.35 - 12.70	1.0000	1.0000
L52	82	7" x 1.25" Plate	12.35 - 12.70	1.0000	1.0000
L53	20	HB158-1-08U8-S8J18(1-5/8)	12.13 - 12.35	1.0000	1.0000
L53	23	LDF4-50A(1/2)	12.13 - 12.35	1.0000	1.0000
L53	25	CU12PSM9P6XXX(1-1/2)	12.13 - 12.35	1.0000	1.0000
L53	27	Safety Line 3/8	12.13 - 12.35	1.0000	1.0000
L53	29	Bent PL 10"x1"	12.13 - 12.35	1.0000	1.0000
L53	30	Bent PL 10"x1"	12.13 - 12.35	1.0000	1.0000
L53	31	Bent PL 10"x1"	12.13 - 12.35	1.0000	1.0000
L53	41	MS-450 (4.5" x 1" Plate)	12.13 - 12.35	1.0000	1.0000
L53	42	MS-450 (4.5" x 1" Plate)	12.13 - 12.35	1.0000	1.0000
L53	43	MS-450 (4.5" x 1" Plate)	12.13 - 12.35	1.0000	1.0000
L53	53	6" x 1" Plate	12.13 - 12.35	1.0000	1.0000
L53	54	6" x 1" Plate	12.13 - 12.35	1.0000	1.0000
L53	82	7" x 1.25" Plate	12.13 - 12.35	1.0000	1.0000
L54	20	HB158-1-08U8-S8J18(1-5/8)	12.00 - 12.13	1.0000	1.0000
L54	23	LDF4-50A(1/2)	12.00 - 12.13	1.0000	1.0000
L54	25	CU12PSM9P6XXX(1-1/2)	12.00 - 12.13	1.0000	1.0000
L54	27	Safety Line 3/8	12.00 - 12.13	1.0000	1.0000
L54	29	Bent PL 10"x1"	12.00 - 12.13	1.0000	1.0000
L54	30	Bent PL 10"x1"	12.00 - 12.13	1.0000	1.0000
L54	31	Bent PL 10"x1"	12.00 - 12.13	1.0000	1.0000
L54	41	MS-450 (4.5" x 1" Plate)	12.00 - 12.13	1.0000	1.0000
L54	42	MS-450 (4.5" x 1" Plate)	12.00 - 12.13	1.0000	1.0000
L54	43	MS-450 (4.5" x 1" Plate)	12.00 - 12.13	1.0000	1.0000
L54	53	6" x 1" Plate	12.00 - 12.13	1.0000	1.0000
L54	54	6" x 1" Plate	12.00 - 12.13	1.0000	1.0000
L54	82	7" x 1.25" Plate	12.00 - 12.13	1.0000	1.0000
L55	20	HB158-1-08U8-S8J18(1-5/8)	11.75 - 12.00	1.0000	1.0000
L55	23	LDF4-50A(1/2)	11.75 - 12.00	1.0000	1.0000
L55	25	CU12PSM9P6XXX(1-1/2)	11.75 - 12.00	1.0000	1.0000
L55	27	Safety Line 3/8	11.75 - 12.00	1.0000	1.0000
L55	29	Bent PL 10"x1"	11.75 - 12.00	1.0000	1.0000
L55	30	Bent PL 10"x1"	11.75 - 12.00	1.0000	1.0000
L55	31	Bent PL 10"x1"	11.75 - 12.00	1.0000	1.0000
L55	41	MS-450 (4.5" x 1" Plate)	11.75 - 12.00	1.0000	1.0000
L55	42	MS-450 (4.5" x 1" Plate)	11.75 - 12.00	1.0000	1.0000
L55	43	MS-450 (4.5" x 1" Plate)	11.75 - 12.00	1.0000	1.0000
L55	53	6" x 1" Plate	11.75 - 12.00	1.0000	1.0000
L55	54	6" x 1" Plate	11.75 - 12.00	1.0000	1.0000
L55	82	7" x 1.25" Plate	11.75 - 12.00	1.0000	1.0000
L56	20	HB158-1-08U8-S8J18(1-5/8)	8.38 - 11.75	1.0000	1.0000
L56	23	LDF4-50A(1/2)	8.38 - 11.75	1.0000	1.0000
L56	25	CU12PSM9P6XXX(1-1/2)	8.38 - 11.75	1.0000	1.0000
L56	27	Safety Line 3/8	8.38 - 11.75	1.0000	1.0000
L56	29	Bent PL 10"x1"	8.38 - 11.75	1.0000	1.0000
L56	30	Bent PL 10"x1"	8.38 - 11.75	1.0000	1.0000
L56	31	Bent PL 10"x1"	8.38 - 11.75	1.0000	1.0000
L56	41	MS-450 (4.5" x 1" Plate)	8.38 - 11.75	1.0000	1.0000
L56	42	MS-450 (4.5" x 1" Plate)	8.38 - 11.75	1.0000	1.0000
L56	43	MS-450 (4.5" x 1" Plate)	8.38 - 11.75	1.0000	1.0000
L56	53	6" x 1" Plate	8.38 - 11.75	1.0000	1.0000
L56	54	6" x 1" Plate	8.38 - 11.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L56	82	7" x 1.25" Plate	8.38 - 11.75	1.0000	1.0000
L57	20	HB158-1-08U8-S8J18(1-5/8)	8.13 - 8.38	1.0000	1.0000
L57	23	LDF4-50A(1/2)	8.13 - 8.38	1.0000	1.0000
L57	25	CU12PSM9P6XXX(1-1/2)	8.13 - 8.38	1.0000	1.0000
L57	27	Safety Line 3/8	8.13 - 8.38	1.0000	1.0000
L57	29	Bent PL 10"x1"	8.13 - 8.38	1.0000	1.0000
L57	30	Bent PL 10"x1"	8.13 - 8.38	1.0000	1.0000
L57	31	Bent PL 10"x1"	8.13 - 8.38	1.0000	1.0000
L57	41	MS-450 (4.5" x 1" Plate)	8.13 - 8.38	1.0000	1.0000
L57	42	MS-450 (4.5" x 1" Plate)	8.13 - 8.38	1.0000	1.0000
L57	43	MS-450 (4.5" x 1" Plate)	8.13 - 8.38	1.0000	1.0000
L57	53	6" x 1" Plate	8.13 - 8.38	1.0000	1.0000
L57	54	6" x 1" Plate	8.13 - 8.38	1.0000	1.0000
L57	82	7" x 1.25" Plate	8.13 - 8.38	1.0000	1.0000
L58	20	HB158-1-08U8-S8J18(1-5/8)	7.75 - 8.13	1.0000	1.0000
L58	23	LDF4-50A(1/2)	7.75 - 8.13	1.0000	1.0000
L58	25	CU12PSM9P6XXX(1-1/2)	7.75 - 8.13	1.0000	1.0000
L58	27	Safety Line 3/8	7.75 - 8.13	1.0000	1.0000
L58	29	Bent PL 10"x1"	7.75 - 8.13	1.0000	1.0000
L58	30	Bent PL 10"x1"	7.75 - 8.13	1.0000	1.0000
L58	31	Bent PL 10"x1"	7.75 - 8.13	1.0000	1.0000
L58	41	MS-450 (4.5" x 1" Plate)	7.75 - 8.13	1.0000	1.0000
L58	42	MS-450 (4.5" x 1" Plate)	7.75 - 8.13	1.0000	1.0000
L58	43	MS-450 (4.5" x 1" Plate)	7.75 - 8.13	1.0000	1.0000
L58	53	6" x 1" Plate	7.75 - 8.13	1.0000	1.0000
L58	54	6" x 1" Plate	7.75 - 8.13	1.0000	1.0000
L58	82	7" x 1.25" Plate	7.75 - 8.13	1.0000	1.0000
L59	20	HB158-1-08U8-S8J18(1-5/8)	7.50 - 7.75	1.0000	1.0000
L59	23	LDF4-50A(1/2)	7.50 - 7.75	1.0000	1.0000
L59	25	CU12PSM9P6XXX(1-1/2)	7.50 - 7.75	1.0000	1.0000
L59	27	Safety Line 3/8	7.50 - 7.75	1.0000	1.0000
L59	29	Bent PL 10"x1"	7.50 - 7.75	1.0000	1.0000
L59	30	Bent PL 10"x1"	7.50 - 7.75	1.0000	1.0000
L59	31	Bent PL 10"x1"	7.50 - 7.75	1.0000	1.0000
L59	41	MS-450 (4.5" x 1" Plate)	7.50 - 7.75	1.0000	1.0000
L59	42	MS-450 (4.5" x 1" Plate)	7.50 - 7.75	1.0000	1.0000
L59	43	MS-450 (4.5" x 1" Plate)	7.50 - 7.75	1.0000	1.0000
L59	53	6" x 1" Plate	7.50 - 7.75	1.0000	1.0000
L59	54	6" x 1" Plate	7.50 - 7.75	1.0000	1.0000
L59	82	7" x 1.25" Plate	7.50 - 7.75	1.0000	1.0000
L60	20	HB158-1-08U8-S8J18(1-5/8)	7.25 - 7.50	1.0000	1.0000
L60	23	LDF4-50A(1/2)	7.25 - 7.50	1.0000	1.0000
L60	25	CU12PSM9P6XXX(1-1/2)	7.25 - 7.50	1.0000	1.0000
L60	27	Safety Line 3/8	7.25 - 7.50	1.0000	1.0000
L60	29	Bent PL 10"x1"	7.25 - 7.50	1.0000	1.0000
L60	30	Bent PL 10"x1"	7.25 - 7.50	1.0000	1.0000
L60	31	Bent PL 10"x1"	7.25 - 7.50	1.0000	1.0000
L60	41	MS-450 (4.5" x 1" Plate)	7.25 - 7.50	1.0000	1.0000
L60	42	MS-450 (4.5" x 1" Plate)	7.25 - 7.50	1.0000	1.0000
L60	43	MS-450 (4.5" x 1" Plate)	7.25 - 7.50	1.0000	1.0000
L60	53	6" x 1" Plate	7.25 - 7.50	1.0000	1.0000
L60	54	6" x 1" Plate	7.25 - 7.50	1.0000	1.0000
L60	82	7" x 1.25" Plate	7.25 - 7.50	1.0000	1.0000
L61	20	HB158-1-08U8-S8J18(1-5/8)	4.00 - 7.25	1.0000	1.0000
L61	23	LDF4-50A(1/2)	4.00 - 7.25	1.0000	1.0000
L61	25	CU12PSM9P6XXX(1-1/2)	4.00 - 7.25	1.0000	1.0000
L61	27	Safety Line 3/8	4.00 - 7.25	1.0000	1.0000
L61	29	Bent PL 10"x1"	4.00 - 7.25	1.0000	1.0000
L61	30	Bent PL 10"x1"	4.00 - 7.25	1.0000	1.0000
L61	31	Bent PL 10"x1"	4.00 - 7.25	1.0000	1.0000
L61	41	MS-450 (4.5" x 1" Plate)	4.00 - 7.25	1.0000	1.0000
L61	42	MS-450 (4.5" x 1" Plate)	4.00 - 7.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L61	43	MS-450 (4.5" x 1" Plate)	4.00 - 7.25	1.0000	1.0000
L61	53	6" x 1" Plate	4.00 - 7.25	1.0000	1.0000
L61	54	6" x 1" Plate	4.00 - 7.25	1.0000	1.0000
L61	82	7" x 1.25" Plate	5.88 - 7.25	1.0000	1.0000
L62	20	HB158-1-08U8-S8J18(1-5/8)	3.73 - 4.00	1.0000	1.0000
L62	23	LDF4-50A(1/2)	3.73 - 4.00	1.0000	1.0000
L62	25	CU12PSM9P6XXX(1-1/2)	3.73 - 4.00	1.0000	1.0000
L62	27	Safety Line 3/8	3.73 - 4.00	1.0000	1.0000
L62	29	Bent PL 10"x1"	3.73 - 4.00	1.0000	1.0000
L62	30	Bent PL 10"x1"	3.73 - 4.00	1.0000	1.0000
L62	31	Bent PL 10"x1"	3.73 - 4.00	1.0000	1.0000
L62	41	MS-450 (4.5" x 1" Plate)	3.73 - 4.00	1.0000	1.0000
L62	42	MS-450 (4.5" x 1" Plate)	3.73 - 4.00	1.0000	1.0000
L62	43	MS-450 (4.5" x 1" Plate)	3.73 - 4.00	1.0000	1.0000
L62	53	6" x 1" Plate	3.73 - 4.00	1.0000	1.0000
L62	54	6" x 1" Plate	3.73 - 4.00	1.0000	1.0000
L63	20	HB158-1-08U8-S8J18(1-5/8)	3.58 - 3.73	1.0000	1.0000
L63	23	LDF4-50A(1/2)	3.58 - 3.73	1.0000	1.0000
L63	25	CU12PSM9P6XXX(1-1/2)	3.58 - 3.73	1.0000	1.0000
L63	27	Safety Line 3/8	3.58 - 3.73	1.0000	1.0000
L63	29	Bent PL 10"x1"	3.58 - 3.73	1.0000	1.0000
L63	30	Bent PL 10"x1"	3.58 - 3.73	1.0000	1.0000
L63	31	Bent PL 10"x1"	3.58 - 3.73	1.0000	1.0000
L63	41	MS-450 (4.5" x 1" Plate)	3.58 - 3.73	1.0000	1.0000
L63	42	MS-450 (4.5" x 1" Plate)	3.58 - 3.73	1.0000	1.0000
L63	43	MS-450 (4.5" x 1" Plate)	3.58 - 3.73	1.0000	1.0000
L63	53	6" x 1" Plate	3.58 - 3.73	1.0000	1.0000
L63	54	6" x 1" Plate	3.58 - 3.73	1.0000	1.0000
L64	20	HB158-1-08U8-S8J18(1-5/8)	3.00 - 3.58	1.0000	1.0000
L64	23	LDF4-50A(1/2)	3.00 - 3.58	1.0000	1.0000
L64	25	CU12PSM9P6XXX(1-1/2)	3.00 - 3.58	1.0000	1.0000
L64	27	Safety Line 3/8	3.00 - 3.58	1.0000	1.0000
L64	29	Bent PL 10"x1"	3.00 - 3.58	1.0000	1.0000
L64	30	Bent PL 10"x1"	3.00 - 3.58	1.0000	1.0000
L64	31	Bent PL 10"x1"	3.00 - 3.58	1.0000	1.0000
L64	41	MS-450 (4.5" x 1" Plate)	3.00 - 3.58	1.0000	1.0000
L64	42	MS-450 (4.5" x 1" Plate)	3.00 - 3.58	1.0000	1.0000
L64	43	MS-450 (4.5" x 1" Plate)	3.00 - 3.58	1.0000	1.0000
L64	53	6" x 1" Plate	3.00 - 3.58	1.0000	1.0000
L64	54	6" x 1" Plate	3.00 - 3.58	1.0000	1.0000
L65	20	HB158-1-08U8-S8J18(1-5/8)	2.75 - 3.00	1.0000	1.0000
L65	23	LDF4-50A(1/2)	2.75 - 3.00	1.0000	1.0000
L65	25	CU12PSM9P6XXX(1-1/2)	2.75 - 3.00	1.0000	1.0000
L65	27	Safety Line 3/8	2.75 - 3.00	1.0000	1.0000
L65	29	Bent PL 10"x1"	2.75 - 3.00	1.0000	1.0000
L65	30	Bent PL 10"x1"	2.75 - 3.00	1.0000	1.0000
L65	31	Bent PL 10"x1"	2.75 - 3.00	1.0000	1.0000
L65	41	MS-450 (4.5" x 1" Plate)	2.75 - 3.00	1.0000	1.0000
L65	42	MS-450 (4.5" x 1" Plate)	2.75 - 3.00	1.0000	1.0000
L65	43	MS-450 (4.5" x 1" Plate)	2.75 - 3.00	1.0000	1.0000
L65	53	6" x 1" Plate	2.75 - 3.00	1.0000	1.0000
L65	54	6" x 1" Plate	2.75 - 3.00	1.0000	1.0000
L66	20	HB158-1-08U8-S8J18(1-5/8)	1.90 - 2.75	1.0000	1.0000
L66	23	LDF4-50A(1/2)	1.90 - 2.75	1.0000	1.0000
L66	25	CU12PSM9P6XXX(1-1/2)	1.90 - 2.75	1.0000	1.0000
L66	27	Safety Line 3/8	1.90 - 2.75	1.0000	1.0000
L66	29	Bent PL 10"x1"	1.90 - 2.75	1.0000	1.0000
L66	30	Bent PL 10"x1"	1.90 - 2.75	1.0000	1.0000
L66	31	Bent PL 10"x1"	1.90 - 2.75	1.0000	1.0000
L66	41	MS-450 (4.5" x 1" Plate)	1.90 - 2.75	1.0000	1.0000
L66	42	MS-450 (4.5" x 1" Plate)	1.90 - 2.75	1.0000	1.0000
L66	43	MS-450 (4.5" x 1" Plate)	1.90 - 2.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L66	53	6" x 1" Plate	1.90 - 2.75	1.0000	1.0000
L66	54	6" x 1" Plate	1.90 - 2.75	1.0000	1.0000
L67	20	HB158-1-08U8-S8J18(1-5/8)	1.65 - 1.90	1.0000	1.0000
L67	23	LDF4-50A(1/2)	1.65 - 1.90	1.0000	1.0000
L67	25	CU12PSM9P6XXX(1-1/2)	1.65 - 1.90	1.0000	1.0000
L67	27	Safety Line 3/8	1.65 - 1.90	1.0000	1.0000
L67	29	Bent PL 10"x1"	1.75 - 1.90	1.0000	1.0000
L67	30	Bent PL 10"x1"	1.75 - 1.90	1.0000	1.0000
L67	31	Bent PL 10"x1"	1.75 - 1.90	1.0000	1.0000
L67	41	MS-450 (4.5" x 1" Plate)	1.65 - 1.90	1.0000	1.0000
L67	42	MS-450 (4.5" x 1" Plate)	1.65 - 1.90	1.0000	1.0000
L67	43	MS-450 (4.5" x 1" Plate)	1.65 - 1.90	1.0000	1.0000
L67	53	6" x 1" Plate	1.65 - 1.90	1.0000	1.0000
L67	54	6" x 1" Plate	1.65 - 1.90	1.0000	1.0000
L68	20	HB158-1-08U8-S8J18(1-5/8)	0.00 - 1.65	1.0000	1.0000
L68	23	LDF4-50A(1/2)	0.00 - 1.65	1.0000	1.0000
L68	25	CU12PSM9P6XXX(1-1/2)	0.00 - 1.65	1.0000	1.0000
L68	27	Safety Line 3/8	0.00 - 1.65	1.0000	1.0000
L68	41	MS-450 (4.5" x 1" Plate)	0.00 - 1.65	1.0000	1.0000
L68	42	MS-450 (4.5" x 1" Plate)	0.00 - 1.65	1.0000	1.0000
L68	43	MS-450 (4.5" x 1" Plate)	0.00 - 1.65	1.0000	1.0000
L68	53	6" x 1" Plate	0.00 - 1.65	1.0000	1.0000
L68	54	6" x 1" Plate	0.00 - 1.65	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
L9	78	4.5" x 1" Plate	76.50 - 78.00	Auto	1.0000
L9	79	4.5" x 1" Plate	76.50 - 78.00	Auto	1.0000
L9	80	4.5" x 1" Plate	76.50 - 78.00	Auto	1.0000
L10	78	4.5" x 1" Plate	76.25 - 76.50	Auto	1.0000
L10	79	4.5" x 1" Plate	76.25 - 76.50	Auto	1.0000
L10	80	4.5" x 1" Plate	76.25 - 76.50	Auto	1.0000
L11	37	Bent PL 9"x0.75"	74.00 - 75.00	Auto	1.0000
L11	38	Bent PL 9"x0.75"	74.00 - 75.00	Auto	1.0000
L11	39	Bent PL 9"x0.75"	74.00 - 75.00	Auto	1.0000
L11	78	4.5" x 1" Plate	74.00 - 76.25	Auto	1.0000
L11	79	4.5" x 1" Plate	74.00 - 76.25	Auto	1.0000
L11	80	4.5" x 1" Plate	74.00 - 76.25	Auto	1.0000
L12	37	Bent PL 9"x0.75"	73.75 - 74.00	Auto	1.0000
L12	38	Bent PL 9"x0.75"	73.75 - 74.00	Auto	1.0000
L12	39	Bent PL 9"x0.75"	73.75 - 74.00	Auto	1.0000
L12	78	4.5" x 1" Plate	73.75 - 74.00	Auto	1.0000
L12	79	4.5" x 1" Plate	73.75 - 74.00	Auto	1.0000
L12	80	4.5" x 1" Plate	73.75 - 74.00	Auto	1.0000
L13	37	Bent PL 9"x0.75"	68.75 - 73.75	Auto	1.0000
L13	38	Bent PL 9"x0.75"	68.75 - 73.75	Auto	1.0000
L13	39	Bent PL 9"x0.75"	68.75 - 73.75	Auto	1.0000
L13	64	4.5" x 1" Plate	68.75 - 70.25	Auto	1.0000
L13	65	4.5" x 1" Plate	68.75 - 70.25	Auto	1.0000
L13	66	4.5" x 1" Plate	68.75 - 70.25	Auto	1.0000
L13	78	4.5" x 1" Plate	68.75 - 73.75	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L13	79	4.5" x 1" Plate	68.75 - 73.75	Auto	1.0000
L13	80	4.5" x 1" Plate	68.75 - 73.75	Auto	1.0000
L14	37	Bent PL 9"x0.75"	68.50 - 68.75	Auto	1.0000
L14	38	Bent PL 9"x0.75"	68.50 - 68.75	Auto	1.0000
L14	39	Bent PL 9"x0.75"	68.50 - 68.75	Auto	1.0000
L14	64	4.5" x 1" Plate	68.50 - 68.75	Auto	1.0000
L14	65	4.5" x 1" Plate	68.50 - 68.75	Auto	1.0000
L14	66	4.5" x 1" Plate	68.50 - 68.75	Auto	1.0000
L14	78	4.5" x 1" Plate	68.50 - 68.75	Auto	1.0000
L14	79	4.5" x 1" Plate	68.50 - 68.75	Auto	1.0000
L14	80	4.5" x 1" Plate	68.50 - 68.75	Auto	1.0000
L15	37	Bent PL 9"x0.75"	68.25 - 68.50	Auto	1.0000
L15	38	Bent PL 9"x0.75"	68.25 - 68.50	Auto	1.0000
L15	39	Bent PL 9"x0.75"	68.25 - 68.50	Auto	1.0000
L15	64	4.5" x 1" Plate	68.25 - 68.50	Auto	1.0000
L15	65	4.5" x 1" Plate	68.25 - 68.50	Auto	1.0000
L15	66	4.5" x 1" Plate	68.25 - 68.50	Auto	1.0000
L15	78	4.5" x 1" Plate	68.25 - 68.50	Auto	1.0000
L15	79	4.5" x 1" Plate	68.25 - 68.50	Auto	1.0000
L15	80	4.5" x 1" Plate	68.25 - 68.50	Auto	1.0000
L16	37	Bent PL 9"x0.75"	64.50 - 68.25	Auto	1.0000
L16	38	Bent PL 9"x0.75"	64.50 - 68.25	Auto	1.0000
L16	39	Bent PL 9"x0.75"	64.50 - 68.25	Auto	1.0000
L16	49	MS-400 (4" x 0.75" Plate)	64.50 - 65.50	Auto	1.0000
L16	50	MS-400 (4" x 0.75" Plate)	64.50 - 65.50	Auto	1.0000
L16	51	MS-400 (4" x 0.75" Plate)	64.50 - 65.50	Auto	1.0000
L16	64	4.5" x 1" Plate	64.50 - 68.25	Auto	1.0000
L16	65	4.5" x 1" Plate	64.50 - 68.25	Auto	1.0000
L16	66	4.5" x 1" Plate	64.50 - 68.25	Auto	1.0000
L16	78	4.5" x 1" Plate	67.00 - 68.25	Auto	1.0000
L16	79	4.5" x 1" Plate	67.00 - 68.25	Auto	1.0000
L16	80	4.5" x 1" Plate	67.00 - 68.25	Auto	1.0000
L17	37	Bent PL 9"x0.75"	64.25 - 64.50	Auto	1.0000
L17	38	Bent PL 9"x0.75"	64.25 - 64.50	Auto	1.0000
L17	39	Bent PL 9"x0.75"	64.25 - 64.50	Auto	1.0000
L17	49	MS-400 (4" x 0.75" Plate)	64.25 - 64.50	Auto	1.0000
L17	50	MS-400 (4" x 0.75" Plate)	64.25 - 64.50	Auto	1.0000
L17	51	MS-400 (4" x 0.75" Plate)	64.25 - 64.50	Auto	1.0000
L17	64	4.5" x 1" Plate	64.25 - 64.50	Auto	1.0000
L17	65	4.5" x 1" Plate	64.25 - 64.50	Auto	1.0000
L17	66	4.5" x 1" Plate	64.25 - 64.50	Auto	1.0000
L18	37	Bent PL 9"x0.75"	63.00 - 64.25	Auto	1.0000
L18	38	Bent PL 9"x0.75"	63.00 - 64.25	Auto	1.0000
L18	39	Bent PL 9"x0.75"	63.00 - 64.25	Auto	1.0000
L18	49	MS-400 (4" x 0.75" Plate)	63.00 - 64.25	Auto	1.0000
L18	50	MS-400 (4" x 0.75" Plate)	63.00 - 64.25	Auto	1.0000
L18	51	MS-400 (4" x 0.75" Plate)	63.00 - 64.25	Auto	1.0000
L18	64	4.5" x 1" Plate	63.00 - 64.25	Auto	1.0000
L18	65	4.5" x 1" Plate	63.00 - 64.25	Auto	1.0000
L18	66	4.5" x 1" Plate	63.00 - 64.25	Auto	1.0000
L19	37	Bent PL 9"x0.75"	62.75 - 63.00	Auto	1.0000
L19	38	Bent PL 9"x0.75"	62.75 - 63.00	Auto	1.0000
L19	39	Bent PL 9"x0.75"	62.75 - 63.00	Auto	1.0000
L19	49	MS-400 (4" x 0.75" Plate)	62.75 - 63.00	Auto	1.0000
L19	50	MS-400 (4" x 0.75" Plate)	62.75 - 63.00	Auto	1.0000
L19	51	MS-400 (4" x 0.75" Plate)	62.75 - 63.00	Auto	1.0000
L19	60	3.75" x 1" Plate	62.75 - 63.00	Auto	1.0000
L19	61	3.75" x 1" Plate	62.75 - 63.00	Auto	1.0000
L19	62	3.75" x 1" Plate	62.75 - 63.00	Auto	1.0000
L20	37	Bent PL 9"x0.75"	60.00 - 62.75	Auto	1.0000
L20	38	Bent PL 9"x0.75"	60.00 - 62.75	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L20	39	Bent PL 9"x0.75"	60.00 - 62.75	Auto	1.0000
L20	49	MS-400 (4" x 0.75" Plate)	60.50 - 62.75	Auto	1.0000
L20	50	MS-400 (4" x 0.75" Plate)	60.50 - 62.75	Auto	1.0000
L20	51	MS-400 (4" x 0.75" Plate)	60.50 - 62.75	Auto	1.0000
L20	60	3.75" x 1" Plate	60.25 - 62.75	Auto	1.0000
L20	61	3.75" x 1" Plate	60.25 - 62.75	Auto	1.0000
L20	62	3.75" x 1" Plate	60.25 - 62.75	Auto	1.0000
L21	33	Bent PL 10"x1"	59.75 - 60.00	Auto	1.0000
L21	34	Bent PL 10"x1"	59.75 - 60.00	Auto	1.0000
L21	35	Bent PL 10"x1"	59.75 - 60.00	Auto	1.0000
L22	33	Bent PL 10"x1"	54.75 - 59.75	Auto	1.0000
L22	34	Bent PL 10"x1"	54.75 - 59.75	Auto	1.0000
L22	35	Bent PL 10"x1"	54.75 - 59.75	Auto	1.0000
L23	33	Bent PL 10"x1"	49.75 - 54.75	Auto	1.0000
L23	34	Bent PL 10"x1"	49.75 - 54.75	Auto	1.0000
L23	35	Bent PL 10"x1"	49.75 - 54.75	Auto	1.0000
L23	72	4" x 0.75" Plate	49.75 - 51.08	Auto	1.0000
L23	73	4" x 0.75" Plate	49.75 - 51.08	Auto	1.0000
L24	33	Bent PL 10"x1"	49.08 - 49.75	Auto	1.0000
L24	34	Bent PL 10"x1"	49.08 - 49.75	Auto	1.0000
L24	35	Bent PL 10"x1"	49.08 - 49.75	Auto	1.0000
L24	72	4" x 0.75" Plate	49.08 - 49.75	Auto	1.0000
L24	73	4" x 0.75" Plate	49.08 - 49.75	Auto	1.0000
L25	33	Bent PL 10"x1"	48.83 - 49.08	Auto	1.0000
L25	34	Bent PL 10"x1"	48.83 - 49.08	Auto	1.0000
L25	35	Bent PL 10"x1"	48.83 - 49.08	Auto	1.0000
L25	72	4" x 0.75" Plate	48.83 - 49.08	Auto	1.0000
L25	73	4" x 0.75" Plate	48.83 - 49.08	Auto	1.0000
L26	33	Bent PL 10"x1"	43.83 - 48.83	Auto	1.0000
L26	34	Bent PL 10"x1"	43.83 - 48.83	Auto	1.0000
L26	35	Bent PL 10"x1"	43.83 - 48.83	Auto	1.0000
L26	72	4" x 0.75" Plate	43.83 - 48.83	Auto	1.0000
L26	73	4" x 0.75" Plate	43.83 - 48.83	Auto	1.0000
L27	33	Bent PL 10"x1"	42.00 - 43.83	Auto	1.0000
L27	34	Bent PL 10"x1"	42.00 - 43.83	Auto	1.0000
L27	35	Bent PL 10"x1"	42.00 - 43.83	Auto	1.0000
L27	56	4" x 0.75" Plate	42.00 - 43.00	Auto	1.0000
L27	57	4" x 0.75" Plate	42.00 - 43.00	Auto	1.0000
L27	58	4" x 0.75" Plate	42.00 - 43.00	Auto	1.0000
L27	72	4" x 0.75" Plate	42.00 - 43.83	Auto	1.0000
L27	73	4" x 0.75" Plate	42.00 - 43.83	Auto	1.0000
L28	33	Bent PL 10"x1"	41.75 - 42.00	Auto	1.0000
L28	34	Bent PL 10"x1"	41.75 - 42.00	Auto	1.0000
L28	35	Bent PL 10"x1"	41.75 - 42.00	Auto	1.0000
L28	56	4" x 0.75" Plate	41.75 - 42.00	Auto	1.0000
L28	57	4" x 0.75" Plate	41.75 - 42.00	Auto	1.0000
L28	58	4" x 0.75" Plate	41.75 - 42.00	Auto	1.0000
L28	72	4" x 0.75" Plate	41.75 - 42.00	Auto	1.0000
L28	73	4" x 0.75" Plate	41.75 - 42.00	Auto	1.0000
L29	33	Bent PL 10"x1"	36.75 - 41.75	Auto	1.0000
L29	34	Bent PL 10"x1"	36.75 - 41.75	Auto	1.0000
L29	35	Bent PL 10"x1"	36.75 - 41.75	Auto	1.0000
L29	56	4" x 0.75" Plate	36.75 - 41.75	Auto	1.0000
L29	57	4" x 0.75" Plate	36.75 - 41.75	Auto	1.0000
L29	58	4" x 0.75" Plate	36.75 - 41.75	Auto	1.0000
L29	72	4" x 0.75" Plate	36.75 - 41.75	Auto	1.0000
L29	73	4" x 0.75" Plate	36.75 - 41.75	Auto	1.0000
L30	33	Bent PL 10"x1"	34.50 - 36.75	Auto	1.0000
L30	34	Bent PL 10"x1"	34.50 - 36.75	Auto	1.0000
L30	35	Bent PL 10"x1"	34.50 - 36.75	Auto	1.0000
L30	45	MS-400 (4" x 0.75" Plate)	34.50 - 35.50	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L30	46	MS-400 (4" x 0.75" Plate)	34.50 - 35.50	Auto	1.0000
L30	47	MS-400 (4" x 0.75" Plate)	34.50 - 35.50	Auto	1.0000
L30	56	4" x 0.75" Plate	34.50 - 36.75	Auto	1.0000
L30	57	4" x 0.75" Plate	34.50 - 36.75	Auto	1.0000
L30	58	4" x 0.75" Plate	34.50 - 36.75	Auto	1.0000
L30	72	4" x 0.75" Plate	34.50 - 36.75	Auto	1.0000
L30	73	4" x 0.75" Plate	34.50 - 36.75	Auto	1.0000
L31	33	Bent PL 10"x1"	34.25 - 34.50	Auto	1.0000
L31	34	Bent PL 10"x1"	34.25 - 34.50	Auto	1.0000
L31	35	Bent PL 10"x1"	34.25 - 34.50	Auto	1.0000
L31	45	MS-400 (4" x 0.75" Plate)	34.25 - 34.50	Auto	1.0000
L31	46	MS-400 (4" x 0.75" Plate)	34.25 - 34.50	Auto	1.0000
L31	47	MS-400 (4" x 0.75" Plate)	34.25 - 34.50	Auto	1.0000
L31	56	4" x 0.75" Plate	34.25 - 34.50	Auto	1.0000
L31	57	4" x 0.75" Plate	34.25 - 34.50	Auto	1.0000
L31	58	4" x 0.75" Plate	34.25 - 34.50	Auto	1.0000
L31	72	4" x 0.75" Plate	34.25 - 34.50	Auto	1.0000
L31	73	4" x 0.75" Plate	34.25 - 34.50	Auto	1.0000
L32	33	Bent PL 10"x1"	34.00 - 34.25	Auto	1.0000
L32	34	Bent PL 10"x1"	34.00 - 34.25	Auto	1.0000
L32	35	Bent PL 10"x1"	34.00 - 34.25	Auto	1.0000
L32	45	MS-400 (4" x 0.75" Plate)	34.00 - 34.25	Auto	1.0000
L32	46	MS-400 (4" x 0.75" Plate)	34.00 - 34.25	Auto	1.0000
L32	47	MS-400 (4" x 0.75" Plate)	34.00 - 34.25	Auto	1.0000
L32	56	4" x 0.75" Plate	34.00 - 34.25	Auto	1.0000
L32	57	4" x 0.75" Plate	34.00 - 34.25	Auto	1.0000
L32	58	4" x 0.75" Plate	34.00 - 34.25	Auto	1.0000
L32	72	4" x 0.75" Plate	34.00 - 34.25	Auto	1.0000
L32	73	4" x 0.75" Plate	34.00 - 34.25	Auto	1.0000
L33	33	Bent PL 10"x1"	33.75 - 34.00	Auto	1.0000
L33	34	Bent PL 10"x1"	33.75 - 34.00	Auto	1.0000
L33	35	Bent PL 10"x1"	33.75 - 34.00	Auto	1.0000
L33	45	MS-400 (4" x 0.75" Plate)	33.75 - 34.00	Auto	1.0000
L33	46	MS-400 (4" x 0.75" Plate)	33.75 - 34.00	Auto	1.0000
L33	47	MS-400 (4" x 0.75" Plate)	33.75 - 34.00	Auto	1.0000
L33	56	4" x 0.75" Plate	33.75 - 34.00	Auto	1.0000
L33	57	4" x 0.75" Plate	33.75 - 34.00	Auto	1.0000
L33	58	4" x 0.75" Plate	33.75 - 34.00	Auto	1.0000
L33	72	4" x 0.75" Plate	33.75 - 34.00	Auto	1.0000
L33	73	4" x 0.75" Plate	33.75 - 34.00	Auto	1.0000
L34	33	Bent PL 10"x1"	30.00 - 33.75	Auto	1.0000
L34	34	Bent PL 10"x1"	30.00 - 33.75	Auto	1.0000
L34	35	Bent PL 10"x1"	30.00 - 33.75	Auto	1.0000
L34	45	MS-400 (4" x 0.75" Plate)	30.50 - 33.75	Auto	1.0000
L34	46	MS-400 (4" x 0.75" Plate)	30.50 - 33.75	Auto	1.0000
L34	47	MS-400 (4" x 0.75" Plate)	30.50 - 33.75	Auto	1.0000
L34	56	4" x 0.75" Plate	33.00 - 33.75	Auto	1.0000
L34	57	4" x 0.75" Plate	33.00 - 33.75	Auto	1.0000
L34	58	4" x 0.75" Plate	33.00 - 33.75	Auto	1.0000
L34	72	4" x 0.75" Plate	30.08 - 33.75	Auto	1.0000
L34	73	4" x 0.75" Plate	30.08 - 33.75	Auto	1.0000
L35	29	Bent PL 10"x1"	29.75 - 30.00	Auto	1.0000
L35	30	Bent PL 10"x1"	29.75 - 30.00	Auto	1.0000
L35	31	Bent PL 10"x1"	29.75 - 30.00	Auto	1.0000
L35	69	4.5" x 1" Plate	29.75 - 30.00	Auto	1.0000
L35	70	4.5" x 1" Plate	29.75 - 30.00	Auto	1.0000
L36	29	Bent PL 10"x1"	28.50 - 29.75	Auto	1.0000
L36	30	Bent PL 10"x1"	28.50 - 29.75	Auto	1.0000
L36	31	Bent PL 10"x1"	28.50 - 29.75	Auto	1.0000
L36	68	4.5" x 1" Plate	28.50 - 29.54	Auto	1.0000
L36	69	4.5" x 1" Plate	28.50 - 29.75	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L36	70	4.5" x 1" Plate	28.50 - 29.75	Auto	1.0000
L36	75	4.5" x 1" Plate	28.50 - 29.50	Auto	1.0000
L36	76	4.5" x 1" Plate	28.50 - 29.50	Auto	1.0000
L37	29	Bent PL 10"x1"	28.25 - 28.50	Auto	1.0000
L37	30	Bent PL 10"x1"	28.25 - 28.50	Auto	1.0000
L37	31	Bent PL 10"x1"	28.25 - 28.50	Auto	1.0000
L37	68	4.5" x 1" Plate	28.25 - 28.50	Auto	1.0000
L37	69	4.5" x 1" Plate	28.25 - 28.50	Auto	1.0000
L37	70	4.5" x 1" Plate	28.25 - 28.50	Auto	1.0000
L37	75	4.5" x 1" Plate	28.25 - 28.50	Auto	1.0000
L37	76	4.5" x 1" Plate	28.25 - 28.50	Auto	1.0000
L38	29	Bent PL 10"x1"	27.94 - 28.25	Auto	1.0000
L38	30	Bent PL 10"x1"	27.94 - 28.25	Auto	1.0000
L38	31	Bent PL 10"x1"	27.94 - 28.25	Auto	1.0000
L38	68	4.5" x 1" Plate	27.94 - 28.25	Auto	1.0000
L38	69	4.5" x 1" Plate	27.94 - 28.25	Auto	1.0000
L38	70	4.5" x 1" Plate	27.94 - 28.25	Auto	1.0000
L38	75	4.5" x 1" Plate	27.94 - 28.25	Auto	1.0000
L38	76	4.5" x 1" Plate	27.94 - 28.25	Auto	1.0000
L39	29	Bent PL 10"x1"	27.69 - 27.94	Auto	1.0000
L39	30	Bent PL 10"x1"	27.69 - 27.94	Auto	1.0000
L39	31	Bent PL 10"x1"	27.69 - 27.94	Auto	1.0000
L39	68	4.5" x 1" Plate	27.69 - 27.94	Auto	1.0000
L39	69	4.5" x 1" Plate	27.69 - 27.94	Auto	1.0000
L39	70	4.5" x 1" Plate	27.69 - 27.94	Auto	1.0000
L39	75	4.5" x 1" Plate	27.69 - 27.94	Auto	1.0000
L39	76	4.5" x 1" Plate	27.69 - 27.94	Auto	1.0000
L40	29	Bent PL 10"x1"	23.00 - 27.69	Auto	1.0000
L40	30	Bent PL 10"x1"	23.00 - 27.69	Auto	1.0000
L40	31	Bent PL 10"x1"	23.00 - 27.69	Auto	1.0000
L40	53	6" x 1" Plate	23.00 - 25.50	Auto	1.0000
L40	54	6" x 1" Plate	23.00 - 25.50	Auto	1.0000
L40	68	4.5" x 1" Plate	23.00 - 27.69	Auto	1.0000
L40	69	4.5" x 1" Plate	23.00 - 27.69	Auto	1.0000
L40	70	4.5" x 1" Plate	23.00 - 27.69	Auto	1.0000
L40	75	4.5" x 1" Plate	23.00 - 27.69	Auto	1.0000
L40	76	4.5" x 1" Plate	23.00 - 27.69	Auto	1.0000
L41	29	Bent PL 10"x1"	22.75 - 23.00	Auto	1.0000
L41	30	Bent PL 10"x1"	22.75 - 23.00	Auto	1.0000
L41	31	Bent PL 10"x1"	22.75 - 23.00	Auto	1.0000
L41	53	6" x 1" Plate	22.75 - 23.00	Auto	1.0000
L41	54	6" x 1" Plate	22.75 - 23.00	Auto	1.0000
L41	68	4.5" x 1" Plate	22.75 - 23.00	Auto	1.0000
L41	69	4.5" x 1" Plate	22.75 - 23.00	Auto	1.0000
L41	70	4.5" x 1" Plate	22.75 - 23.00	Auto	1.0000
L41	75	4.5" x 1" Plate	22.75 - 23.00	Auto	1.0000
L41	76	4.5" x 1" Plate	22.75 - 23.00	Auto	1.0000
L42	29	Bent PL 10"x1"	21.50 - 22.75	Auto	1.0000
L42	30	Bent PL 10"x1"	21.50 - 22.75	Auto	1.0000
L42	31	Bent PL 10"x1"	21.50 - 22.75	Auto	1.0000
L42	53	6" x 1" Plate	21.50 - 22.75	Auto	1.0000
L42	54	6" x 1" Plate	21.50 - 22.75	Auto	1.0000
L42	68	4.5" x 1" Plate	21.50 - 22.75	Auto	1.0000
L42	69	4.5" x 1" Plate	21.50 - 22.75	Auto	1.0000
L42	70	4.5" x 1" Plate	21.50 - 22.75	Auto	1.0000
L42	75	4.5" x 1" Plate	21.50 - 22.75	Auto	1.0000
L42	76	4.5" x 1" Plate	21.50 - 22.75	Auto	1.0000
L43	29	Bent PL 10"x1"	21.25 - 21.50	Auto	1.0000
L43	30	Bent PL 10"x1"	21.25 - 21.50	Auto	1.0000
L43	31	Bent PL 10"x1"	21.25 - 21.50	Auto	1.0000
L43	53	6" x 1" Plate	21.25 - 21.50	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L43	54	6" x 1" Plate	21.25 - 21.50	Auto	1.0000
L43	68	4.5" x 1" Plate	21.25 - 21.50	Auto	1.0000
L43	69	4.5" x 1" Plate	21.25 - 21.50	Auto	1.0000
L43	70	4.5" x 1" Plate	21.25 - 21.50	Auto	1.0000
L43	75	4.5" x 1" Plate	21.25 - 21.50	Auto	1.0000
L43	76	4.5" x 1" Plate	21.25 - 21.50	Auto	1.0000
L44	29	Bent PL 10"x1"	21.00 - 21.25	Auto	1.0000
L44	30	Bent PL 10"x1"	21.00 - 21.25	Auto	1.0000
L44	31	Bent PL 10"x1"	21.00 - 21.25	Auto	1.0000
L44	53	6" x 1" Plate	21.00 - 21.25	Auto	1.0000
L44	54	6" x 1" Plate	21.00 - 21.25	Auto	1.0000
L44	68	4.5" x 1" Plate	21.00 - 21.25	Auto	1.0000
L44	69	4.5" x 1" Plate	21.00 - 21.25	Auto	1.0000
L44	70	4.5" x 1" Plate	21.00 - 21.25	Auto	1.0000
L44	75	4.5" x 1" Plate	21.00 - 21.25	Auto	1.0000
L44	76	4.5" x 1" Plate	21.00 - 21.25	Auto	1.0000
L45	29	Bent PL 10"x1"	20.75 - 21.00	Auto	1.0000
L45	30	Bent PL 10"x1"	20.75 - 21.00	Auto	1.0000
L45	31	Bent PL 10"x1"	20.75 - 21.00	Auto	1.0000
L45	53	6" x 1" Plate	20.75 - 21.00	Auto	1.0000
L45	54	6" x 1" Plate	20.75 - 21.00	Auto	1.0000
L45	68	4.5" x 1" Plate	20.75 - 21.00	Auto	1.0000
L45	69	4.5" x 1" Plate	20.75 - 21.00	Auto	1.0000
L45	70	4.5" x 1" Plate	20.75 - 21.00	Auto	1.0000
L45	75	4.5" x 1" Plate	20.75 - 21.00	Auto	1.0000
L45	76	4.5" x 1" Plate	20.75 - 21.00	Auto	1.0000
L46	29	Bent PL 10"x1"	19.00 - 20.75	Auto	1.0000
L46	30	Bent PL 10"x1"	19.00 - 20.75	Auto	1.0000
L46	31	Bent PL 10"x1"	19.00 - 20.75	Auto	1.0000
L46	41	MS-450 (4.5" x 1" Plate)	19.00 - 20.50	Auto	1.0000
L46	42	MS-450 (4.5" x 1" Plate)	19.00 - 20.50	Auto	1.0000
L46	43	MS-450 (4.5" x 1" Plate)	19.00 - 20.50	Auto	1.0000
L46	53	6" x 1" Plate	19.00 - 20.75	Auto	1.0000
L46	54	6" x 1" Plate	19.00 - 20.75	Auto	1.0000
L46	68	4.5" x 1" Plate	19.50 - 20.75	Auto	1.0000
L46	69	4.5" x 1" Plate	20.00 - 20.75	Auto	1.0000
L46	70	4.5" x 1" Plate	20.00 - 20.75	Auto	1.0000
L46	75	4.5" x 1" Plate	19.00 - 20.75	Auto	1.0000
L46	76	4.5" x 1" Plate	19.00 - 20.75	Auto	1.0000
L47	29	Bent PL 10"x1"	18.75 - 19.00	Auto	1.0000
L47	30	Bent PL 10"x1"	18.75 - 19.00	Auto	1.0000
L47	31	Bent PL 10"x1"	18.75 - 19.00	Auto	1.0000
L47	41	MS-450 (4.5" x 1" Plate)	18.75 - 19.00	Auto	1.0000
L47	42	MS-450 (4.5" x 1" Plate)	18.75 - 19.00	Auto	1.0000
L47	43	MS-450 (4.5" x 1" Plate)	18.75 - 19.00	Auto	1.0000
L47	53	6" x 1" Plate	18.75 - 19.00	Auto	1.0000
L47	54	6" x 1" Plate	18.75 - 19.00	Auto	1.0000
L47	75	4.5" x 1" Plate	18.75 - 19.00	Auto	1.0000
L47	76	4.5" x 1" Plate	18.75 - 19.00	Auto	1.0000
L48	29	Bent PL 10"x1"	18.50 - 18.75	Auto	1.0000
L48	30	Bent PL 10"x1"	18.50 - 18.75	Auto	1.0000
L48	31	Bent PL 10"x1"	18.50 - 18.75	Auto	1.0000
L48	41	MS-450 (4.5" x 1" Plate)	18.50 - 18.75	Auto	1.0000
L48	42	MS-450 (4.5" x 1" Plate)	18.50 - 18.75	Auto	1.0000
L48	43	MS-450 (4.5" x 1" Plate)	18.50 - 18.75	Auto	1.0000
L48	53	6" x 1" Plate	18.50 - 18.75	Auto	1.0000
L48	54	6" x 1" Plate	18.50 - 18.75	Auto	1.0000
L48	75	4.5" x 1" Plate	18.50 - 18.75	Auto	1.0000
L48	76	4.5" x 1" Plate	18.50 - 18.75	Auto	1.0000
L49	29	Bent PL 10"x1"	18.25 - 18.50	Auto	1.0000
L49	30	Bent PL 10"x1"	18.25 - 18.50	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L49	31	Bent PL 10"x1"	18.25 - 18.50	Auto	1.0000
L49	41	MS-450 (4.5" x 1" Plate)	18.25 - 18.50	Auto	1.0000
L49	42	MS-450 (4.5" x 1" Plate)	18.25 - 18.50	Auto	1.0000
L49	43	MS-450 (4.5" x 1" Plate)	18.25 - 18.50	Auto	1.0000
L49	53	6" x 1" Plate	18.25 - 18.50	Auto	1.0000
L49	54	6" x 1" Plate	18.25 - 18.50	Auto	1.0000
L49	75	4.5" x 1" Plate	18.25 - 18.50	Auto	1.0000
L49	76	4.5" x 1" Plate	18.25 - 18.50	Auto	1.0000
L50	29	Bent PL 10"x1"	13.25 - 18.25	Auto	1.0000
L50	30	Bent PL 10"x1"	13.25 - 18.25	Auto	1.0000
L50	31	Bent PL 10"x1"	13.25 - 18.25	Auto	1.0000
L50	41	MS-450 (4.5" x 1" Plate)	13.25 - 18.25	Auto	1.0000
L50	42	MS-450 (4.5" x 1" Plate)	13.25 - 18.25	Auto	1.0000
L50	43	MS-450 (4.5" x 1" Plate)	13.25 - 18.25	Auto	1.0000
L50	53	6" x 1" Plate	13.25 - 18.25	Auto	1.0000
L50	54	6" x 1" Plate	13.25 - 18.25	Auto	1.0000
L50	75	4.5" x 1" Plate	17.00 - 18.25	Auto	1.0000
L50	76	4.5" x 1" Plate	17.00 - 18.25	Auto	1.0000
L50	82	7" x 1.25" Plate	13.25 - 14.88	Auto	1.0000
L51	29	Bent PL 10"x1"	12.70 - 13.25	Auto	1.0000
L51	30	Bent PL 10"x1"	12.70 - 13.25	Auto	1.0000
L51	31	Bent PL 10"x1"	12.70 - 13.25	Auto	1.0000
L51	41	MS-450 (4.5" x 1" Plate)	12.70 - 13.25	Auto	1.0000
L51	42	MS-450 (4.5" x 1" Plate)	12.70 - 13.25	Auto	1.0000
L51	43	MS-450 (4.5" x 1" Plate)	12.70 - 13.25	Auto	1.0000
L51	53	6" x 1" Plate	12.70 - 13.25	Auto	1.0000
L51	54	6" x 1" Plate	12.70 - 13.25	Auto	1.0000
L51	82	7" x 1.25" Plate	12.70 - 13.25	Auto	1.0000
L52	29	Bent PL 10"x1"	12.35 - 12.70	Auto	1.0000
L52	30	Bent PL 10"x1"	12.35 - 12.70	Auto	1.0000
L52	31	Bent PL 10"x1"	12.35 - 12.70	Auto	1.0000
L52	41	MS-450 (4.5" x 1" Plate)	12.35 - 12.70	Auto	1.0000
L52	42	MS-450 (4.5" x 1" Plate)	12.35 - 12.70	Auto	1.0000
L52	43	MS-450 (4.5" x 1" Plate)	12.35 - 12.70	Auto	1.0000
L52	53	6" x 1" Plate	12.35 - 12.70	Auto	1.0000
L52	54	6" x 1" Plate	12.35 - 12.70	Auto	1.0000
L52	82	7" x 1.25" Plate	12.35 - 12.70	Auto	1.0000
L53	29	Bent PL 10"x1"	12.13 - 12.35	Auto	1.0000
L53	30	Bent PL 10"x1"	12.13 - 12.35	Auto	1.0000
L53	31	Bent PL 10"x1"	12.13 - 12.35	Auto	1.0000
L53	41	MS-450 (4.5" x 1" Plate)	12.13 - 12.35	Auto	1.0000
L53	42	MS-450 (4.5" x 1" Plate)	12.13 - 12.35	Auto	1.0000
L53	43	MS-450 (4.5" x 1" Plate)	12.13 - 12.35	Auto	1.0000
L53	53	6" x 1" Plate	12.13 - 12.35	Auto	1.0000
L53	54	6" x 1" Plate	12.13 - 12.35	Auto	1.0000
L53	82	7" x 1.25" Plate	12.13 - 12.35	Auto	1.0000
L54	29	Bent PL 10"x1"	12.00 - 12.13	Auto	1.0000
L54	30	Bent PL 10"x1"	12.00 - 12.13	Auto	1.0000
L54	31	Bent PL 10"x1"	12.00 - 12.13	Auto	1.0000
L54	41	MS-450 (4.5" x 1" Plate)	12.00 - 12.13	Auto	1.0000
L54	42	MS-450 (4.5" x 1" Plate)	12.00 - 12.13	Auto	1.0000
L54	43	MS-450 (4.5" x 1" Plate)	12.00 - 12.13	Auto	1.0000
L54	53	6" x 1" Plate	12.00 - 12.13	Auto	1.0000
L54	54	6" x 1" Plate	12.00 - 12.13	Auto	1.0000
L54	82	7" x 1.25" Plate	12.00 - 12.13	Auto	1.0000
L55	29	Bent PL 10"x1"	11.75 - 12.00	Auto	1.0000
L55	30	Bent PL 10"x1"	11.75 - 12.00	Auto	1.0000
L55	31	Bent PL 10"x1"	11.75 - 12.00	Auto	1.0000
L55	41	MS-450 (4.5" x 1" Plate)	11.75 - 12.00	Auto	1.0000
L55	42	MS-450 (4.5" x 1" Plate)	11.75 - 12.00	Auto	1.0000
L55	43	MS-450 (4.5" x 1" Plate)	11.75 - 12.00	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L55	53	6" x 1" Plate	11.75 - 12.00	Auto	1.0000
L55	54	6" x 1" Plate	11.75 - 12.00	Auto	1.0000
L55	82	7" x 1.25" Plate	11.75 - 12.00	Auto	1.0000
L56	29	Bent PL 10"x1"	8.38 - 11.75	Auto	1.0000
L56	30	Bent PL 10"x1"	8.38 - 11.75	Auto	1.0000
L56	31	Bent PL 10"x1"	8.38 - 11.75	Auto	1.0000
L56	41	MS-450 (4.5" x 1" Plate)	8.38 - 11.75	Auto	1.0000
L56	42	MS-450 (4.5" x 1" Plate)	8.38 - 11.75	Auto	1.0000
L56	43	MS-450 (4.5" x 1" Plate)	8.38 - 11.75	Auto	1.0000
L56	53	6" x 1" Plate	8.38 - 11.75	Auto	1.0000
L56	54	6" x 1" Plate	8.38 - 11.75	Auto	1.0000
L56	82	7" x 1.25" Plate	8.38 - 11.75	Auto	1.0000
L57	29	Bent PL 10"x1"	8.13 - 8.38	Auto	1.0000
L57	30	Bent PL 10"x1"	8.13 - 8.38	Auto	1.0000
L57	31	Bent PL 10"x1"	8.13 - 8.38	Auto	1.0000
L57	41	MS-450 (4.5" x 1" Plate)	8.13 - 8.38	Auto	1.0000
L57	42	MS-450 (4.5" x 1" Plate)	8.13 - 8.38	Auto	1.0000
L57	43	MS-450 (4.5" x 1" Plate)	8.13 - 8.38	Auto	1.0000
L57	53	6" x 1" Plate	8.13 - 8.38	Auto	1.0000
L57	54	6" x 1" Plate	8.13 - 8.38	Auto	1.0000
L57	82	7" x 1.25" Plate	8.13 - 8.38	Auto	1.0000
L58	29	Bent PL 10"x1"	7.75 - 8.13	Auto	1.0000
L58	30	Bent PL 10"x1"	7.75 - 8.13	Auto	1.0000
L58	31	Bent PL 10"x1"	7.75 - 8.13	Auto	1.0000
L58	41	MS-450 (4.5" x 1" Plate)	7.75 - 8.13	Auto	1.0000
L58	42	MS-450 (4.5" x 1" Plate)	7.75 - 8.13	Auto	1.0000
L58	43	MS-450 (4.5" x 1" Plate)	7.75 - 8.13	Auto	1.0000
L58	53	6" x 1" Plate	7.75 - 8.13	Auto	1.0000
L58	54	6" x 1" Plate	7.75 - 8.13	Auto	1.0000
L58	82	7" x 1.25" Plate	7.75 - 8.13	Auto	1.0000
L59	29	Bent PL 10"x1"	7.50 - 7.75	Auto	1.0000
L59	30	Bent PL 10"x1"	7.50 - 7.75	Auto	1.0000
L59	31	Bent PL 10"x1"	7.50 - 7.75	Auto	1.0000
L59	41	MS-450 (4.5" x 1" Plate)	7.50 - 7.75	Auto	1.0000
L59	42	MS-450 (4.5" x 1" Plate)	7.50 - 7.75	Auto	1.0000
L59	43	MS-450 (4.5" x 1" Plate)	7.50 - 7.75	Auto	1.0000
L59	53	6" x 1" Plate	7.50 - 7.75	Auto	1.0000
L59	54	6" x 1" Plate	7.50 - 7.75	Auto	1.0000
L59	82	7" x 1.25" Plate	7.50 - 7.75	Auto	1.0000
L60	29	Bent PL 10"x1"	7.25 - 7.50	Auto	1.0000
L60	30	Bent PL 10"x1"	7.25 - 7.50	Auto	1.0000
L60	31	Bent PL 10"x1"	7.25 - 7.50	Auto	1.0000
L60	41	MS-450 (4.5" x 1" Plate)	7.25 - 7.50	Auto	1.0000
L60	42	MS-450 (4.5" x 1" Plate)	7.25 - 7.50	Auto	1.0000
L60	43	MS-450 (4.5" x 1" Plate)	7.25 - 7.50	Auto	1.0000
L60	53	6" x 1" Plate	7.25 - 7.50	Auto	1.0000
L60	54	6" x 1" Plate	7.25 - 7.50	Auto	1.0000
L60	82	7" x 1.25" Plate	7.25 - 7.50	Auto	1.0000
L61	29	Bent PL 10"x1"	4.00 - 7.25	Auto	1.0000
L61	30	Bent PL 10"x1"	4.00 - 7.25	Auto	1.0000
L61	31	Bent PL 10"x1"	4.00 - 7.25	Auto	1.0000
L61	41	MS-450 (4.5" x 1" Plate)	4.00 - 7.25	Auto	1.0000
L61	42	MS-450 (4.5" x 1" Plate)	4.00 - 7.25	Auto	1.0000
L61	43	MS-450 (4.5" x 1" Plate)	4.00 - 7.25	Auto	1.0000
L61	53	6" x 1" Plate	4.00 - 7.25	Auto	1.0000
L61	54	6" x 1" Plate	4.00 - 7.25	Auto	1.0000
L61	82	7" x 1.25" Plate	5.88 - 7.25	Auto	1.0000
L62	29	Bent PL 10"x1"	3.73 - 4.00	Auto	1.0000
L62	30	Bent PL 10"x1"	3.73 - 4.00	Auto	1.0000
L62	31	Bent PL 10"x1"	3.73 - 4.00	Auto	1.0000
L62	41	MS-450 (4.5" x 1" Plate)	3.73 - 4.00	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L62	42	MS-450 (4.5" x 1" Plate)	3.73 - 4.00	Auto	1.0000
L62	43	MS-450 (4.5" x 1" Plate)	3.73 - 4.00	Auto	1.0000
L62	53	6" x 1" Plate	3.73 - 4.00	Auto	1.0000
L62	54	6" x 1" Plate	3.73 - 4.00	Auto	1.0000
L63	29	Bent PL 10"x1"	3.58 - 3.73	Auto	1.0000
L63	30	Bent PL 10"x1"	3.58 - 3.73	Auto	1.0000
L63	31	Bent PL 10"x1"	3.58 - 3.73	Auto	1.0000
L63	41	MS-450 (4.5" x 1" Plate)	3.58 - 3.73	Auto	1.0000
L63	42	MS-450 (4.5" x 1" Plate)	3.58 - 3.73	Auto	1.0000
L63	43	MS-450 (4.5" x 1" Plate)	3.58 - 3.73	Auto	1.0000
L63	53	6" x 1" Plate	3.58 - 3.73	Auto	1.0000
L63	54	6" x 1" Plate	3.58 - 3.73	Auto	1.0000
L64	29	Bent PL 10"x1"	3.00 - 3.58	Auto	1.0000
L64	30	Bent PL 10"x1"	3.00 - 3.58	Auto	1.0000
L64	31	Bent PL 10"x1"	3.00 - 3.58	Auto	1.0000
L64	41	MS-450 (4.5" x 1" Plate)	3.00 - 3.58	Auto	1.0000
L64	42	MS-450 (4.5" x 1" Plate)	3.00 - 3.58	Auto	1.0000
L64	43	MS-450 (4.5" x 1" Plate)	3.00 - 3.58	Auto	1.0000
L64	53	6" x 1" Plate	3.00 - 3.58	Auto	1.0000
L64	54	6" x 1" Plate	3.00 - 3.58	Auto	1.0000
L65	29	Bent PL 10"x1"	2.75 - 3.00	Auto	1.0000
L65	30	Bent PL 10"x1"	2.75 - 3.00	Auto	1.0000
L65	31	Bent PL 10"x1"	2.75 - 3.00	Auto	1.0000
L65	41	MS-450 (4.5" x 1" Plate)	2.75 - 3.00	Auto	1.0000
L65	42	MS-450 (4.5" x 1" Plate)	2.75 - 3.00	Auto	1.0000
L65	43	MS-450 (4.5" x 1" Plate)	2.75 - 3.00	Auto	1.0000
L65	53	6" x 1" Plate	2.75 - 3.00	Auto	1.0000
L65	54	6" x 1" Plate	2.75 - 3.00	Auto	1.0000
L66	29	Bent PL 10"x1"	1.90 - 2.75	Auto	1.0000
L66	30	Bent PL 10"x1"	1.90 - 2.75	Auto	1.0000
L66	31	Bent PL 10"x1"	1.90 - 2.75	Auto	1.0000
L66	41	MS-450 (4.5" x 1" Plate)	1.90 - 2.75	Auto	1.0000
L66	42	MS-450 (4.5" x 1" Plate)	1.90 - 2.75	Auto	1.0000
L66	43	MS-450 (4.5" x 1" Plate)	1.90 - 2.75	Auto	1.0000
L66	53	6" x 1" Plate	1.90 - 2.75	Auto	1.0000
L66	54	6" x 1" Plate	1.90 - 2.75	Auto	1.0000
L67	29	Bent PL 10"x1"	1.75 - 1.90	Auto	1.0000
L67	30	Bent PL 10"x1"	1.75 - 1.90	Auto	1.0000
L67	31	Bent PL 10"x1"	1.75 - 1.90	Auto	1.0000
L67	41	MS-450 (4.5" x 1" Plate)	1.65 - 1.90	Auto	1.0000
L67	42	MS-450 (4.5" x 1" Plate)	1.65 - 1.90	Auto	1.0000
L67	43	MS-450 (4.5" x 1" Plate)	1.65 - 1.90	Auto	1.0000
L67	53	6" x 1" Plate	1.65 - 1.90	Auto	1.0000
L67	54	6" x 1" Plate	1.65 - 1.90	Auto	1.0000
L68	41	MS-450 (4.5" x 1" Plate)	0.00 - 1.65	Auto	1.0000
L68	42	MS-450 (4.5" x 1" Plate)	0.00 - 1.65	Auto	1.0000
L68	43	MS-450 (4.5" x 1" Plate)	0.00 - 1.65	Auto	1.0000
L68	53	6" x 1" Plate	0.00 - 1.65	Auto	1.0000
L68	54	6" x 1" Plate	0.00 - 1.65	Auto	1.0000

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
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	1.000 0.000 -3.000	0.000	116.000	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
PCS 1900MHZ 4X45W-65MHZ	B	From Leg	1.000 0.000 -3.000	0.000	116.000	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
PCS 1900MHZ 4X45W-65MHZ	C	From Leg	1.000 0.000 -3.000	0.000	116.000	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
800MHZ 2X50W RRH W/FILTER	A	From Leg	1.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.058 2.240 2.429 2.829	1.932 2.109 2.293 2.684	0.064 0.086 0.111 0.172
800MHZ 2X50W RRH W/FILTER	B	From Leg	1.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.058 2.240 2.429 2.829	1.932 2.109 2.293 2.684	0.064 0.086 0.111 0.172
800MHZ 2X50W RRH W/FILTER	C	From Leg	1.000 0.000 1.000	0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.058 2.240 2.429 2.829	1.932 2.109 2.293 2.684	0.064 0.086 0.111 0.172
Pipe Mount [PM 601-3]	C	None		0.000	116.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.170 3.790 4.420 5.760	3.170 3.790 4.420 5.760	0.195 0.232 0.279 0.401
*									
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	114.000	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	B	From Leg	4.000 0.000 2.000	0.000	114.000	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
APXV9ERR18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	114.000	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 2.000	0.000	114.000	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 2.000	0.000	114.000	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 2.000	0.000	114.000	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 2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.704 3.946 4.196 4.717	1.294 1.465 1.642 2.019	0.066 0.090 0.117 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
TD-RRH8X20-25	B	From Leg	4.000 0.000 2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.704 3.946 4.196 4.717	1.294 1.465 1.642 2.019	0.066 0.090 0.117 0.183
TD-RRH8X20-25	C	From Leg	4.000 0.000 2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.704 3.946 4.196 4.717	1.294 1.465 1.642 2.019	0.066 0.090 0.117 0.183
WIMAX DAP HEAD	B	From Leg	4.000 0.000 2.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.547 1.704 1.868 2.219	0.684 0.800 0.923 1.193	0.033 0.045 0.058 0.094
(2) 4' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
(2) 4' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
(2) 4' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
Platform Mount [LP 502-1]	C	None		0.000	114.000	No Ice 1/2" Ice 1" Ice 2" Ice	18.280 23.540 28.530 38.850	18.280 23.540 28.530 38.850	0.925 1.435 2.070 3.714
*									
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	108.000	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	108.000	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	108.000	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
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	108.000	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	0.186 0.315 0.458 0.788
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	108.000	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	0.186 0.315 0.458 0.788
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	108.000	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	0.186 0.315 0.458 0.788
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.760 4.120 4.480 5.240	3.150 3.490 3.840 4.580	0.194 0.252 0.320 0.485

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
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.760 4.120 4.480 5.240	3.150 3.490 3.840 4.580	0.194 0.252 0.320 0.485
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.760 4.120 4.480 5.240	3.150 3.490 3.840 4.580	0.194 0.252 0.320 0.485
SDX1926Q-43	A	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.241 0.306 0.379 0.547	0.101 0.144 0.195 0.318	0.006 0.009 0.012 0.023
SDX1926Q-43	B	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.241 0.306 0.379 0.547	0.101 0.144 0.195 0.318	0.006 0.009 0.012 0.023
SDX1926Q-43	C	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.241 0.306 0.379 0.547	0.101 0.144 0.195 0.318	0.006 0.009 0.012 0.023
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000 0.000 0.000	0.000	108.000	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	108.000	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	108.000	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
RRUS 4415 B25	A	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.644 1.804 1.972 2.329	0.679 0.791 0.913 1.183	0.044 0.056 0.071 0.109
RRUS 4415 B25	B	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.644 1.804 1.972 2.329	0.679 0.791 0.913 1.183	0.044 0.056 0.071 0.109
RRUS 4415 B25	C	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.644 1.804 1.972 2.329	0.679 0.791 0.913 1.183	0.044 0.056 0.071 0.109
KRY 112 144/1	A	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
KRY 112 144/1	B	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
KRY 112 144/1	C	From Leg	4.000 0.000 0.000	0.000	108.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
4' x 2" Pipe Mount	A	From Leg	4.000	0.000	108.000	No Ice	0.785	0.785	0.029

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	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	B	From Leg	4.000	0.000	108.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	C	From Leg	4.000	0.000	108.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			0.000			1" Ice	1.281	1.281	0.044
						2" Ice	1.814	1.814	0.072
8' x 2" Mount Pipe	A	From Leg	4.000	0.000	108.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
8' x 2" Mount Pipe	B	From Leg	4.000	0.000	108.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
8' x 2" Mount Pipe	C	From Leg	4.000	0.000	108.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
SitePro 1 RMQP-496-HK	C	None		0.000	108.000	No Ice	23.140	23.140	1.945
						1/2" Ice	28.170	28.170	2.335
						1" Ice	33.230	33.230	2.845
						2" Ice	43.350	43.350	3.865
*									
DC6-48-60-18-8F	B	From Leg	4.000	0.000	98.000	No Ice	1.212	1.212	0.033
			0.000			1/2" Ice	1.892	1.892	0.055
			0.000			1" Ice	2.105	2.105	0.080
						2" Ice	2.570	2.570	0.138
AIR 6419 B77G w/ Mount Pipe	A	From Leg	4.000	0.000	98.000	No Ice	4.320	2.490	0.078
			0.000			1/2" Ice	4.740	2.840	0.110
			2.000			1" Ice	5.170	3.210	0.147
						2" Ice	6.090	4.000	0.241
AIR 6419 B77G w/ Mount Pipe	B	From Leg	4.000	0.000	98.000	No Ice	4.320	2.490	0.078
			0.000			1/2" Ice	4.740	2.840	0.110
			2.000			1" Ice	5.170	3.210	0.147
						2" Ice	6.090	4.000	0.241
AIR 6419 B77G w/ Mount Pipe	C	From Leg	4.000	0.000	98.000	No Ice	4.320	2.490	0.078
			0.000			1/2" Ice	4.740	2.840	0.110
			2.000			1" Ice	5.170	3.210	0.147
						2" Ice	6.090	4.000	0.241
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.000	0.000	98.000	No Ice	11.960	5.970	0.115
			0.000			1/2" Ice	12.700	6.630	0.201
			2.000			1" Ice	13.460	7.300	0.298
						2" Ice	15.020	8.690	0.529
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.000	0.000	98.000	No Ice	15.890	7.890	0.139
			0.000			1/2" Ice	16.810	8.740	0.252
			2.000			1" Ice	17.760	9.600	0.380
						2" Ice	19.700	11.370	0.679
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.000	0.000	98.000	No Ice	11.960	5.970	0.115
			0.000			1/2" Ice	12.700	6.630	0.201
			2.000			1" Ice	13.460	7.300	0.298
						2" Ice	15.020	8.690	0.529
TPA65R-BU6D_CCIV2 w/	A	From Leg	4.000	0.000	98.000	No Ice	11.960	5.970	0.094

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			1/2" Ice	12.700	6.630	0.181
			2.000			1" Ice	13.460	7.300	0.278
						2" Ice	15.020	8.690	0.509
TPA65R-BU8D_CCIV2 w/ Mount Pipe	B	From Leg	4.000	0.000	98.000	No Ice	15.890	7.890	0.120
			0.000			1/2" Ice	16.810	8.740	0.234
			2.000			1" Ice	17.760	9.600	0.361
						2" Ice	19.700	11.370	0.660
TPA65R-BU6D_CCIV2 w/ Mount Pipe	C	From Leg	4.000	0.000	98.000	No Ice	11.960	5.970	0.094
			0.000			1/2" Ice	12.700	6.630	0.181
			2.000			1" Ice	13.460	7.300	0.278
						2" Ice	15.020	8.690	0.509
AIR 6449 B77D w/ Mount Pipe	A	From Leg	4.000	0.000	98.000	No Ice	3.580	2.310	0.095
			0.000			1/2" Ice	3.920	2.600	0.130
			2.000			1" Ice	4.270	2.910	0.173
						2" Ice	5.020	3.570	0.277
AIR 6449 B77D w/ Mount Pipe	B	From Leg	4.000	0.000	98.000	No Ice	3.580	2.310	0.095
			0.000			1/2" Ice	3.920	2.600	0.130
			2.000			1" Ice	4.270	2.910	0.173
						2" Ice	5.020	3.570	0.277
AIR 6449 B77D w/ Mount Pipe	C	From Leg	4.000	0.000	98.000	No Ice	3.580	2.310	0.095
			0.000			1/2" Ice	3.920	2.600	0.130
			2.000			1" Ice	4.270	2.910	0.173
						2" Ice	5.020	3.570	0.277
RRUS 4478 B14_CCIV2	A	From Leg	4.000	0.000	98.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			2.000			1" Ice	2.386	1.554	0.097
						2" Ice	2.780	1.891	0.147
RRUS 4478 B14_CCIV2	B	From Leg	4.000	0.000	98.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			2.000			1" Ice	2.386	1.554	0.097
						2" Ice	2.780	1.891	0.147
RRUS 4478 B14_CCIV2	C	From Leg	4.000	0.000	98.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			2.000			1" Ice	2.386	1.554	0.097
						2" Ice	2.780	1.891	0.147
RRUS 8843 B2/B66A_CCIV2	A	From Leg	4.000	0.000	98.000	No Ice	1.980	1.695	0.075
			0.000			1/2" Ice	2.157	1.861	0.096
			2.000			1" Ice	2.341	2.035	0.119
						2" Ice	2.733	2.405	0.176
RRUS 8843 B2/B66A_CCIV2	B	From Leg	4.000	0.000	98.000	No Ice	1.980	1.695	0.075
			0.000			1/2" Ice	2.157	1.861	0.096
			2.000			1" Ice	2.341	2.035	0.119
						2" Ice	2.733	2.405	0.176
RRUS 8843 B2/B66A_CCIV2	C	From Leg	4.000	0.000	98.000	No Ice	1.980	1.695	0.075
			0.000			1/2" Ice	2.157	1.861	0.096
			2.000			1" Ice	2.341	2.035	0.119
						2" Ice	2.733	2.405	0.176
DC9-48-60-24-8C-EV	A	From Leg	4.000	0.000	98.000	No Ice	2.737	4.785	0.026
			0.000			1/2" Ice	2.963	5.065	0.063
			2.000			1" Ice	3.196	5.352	0.104
						2" Ice	3.684	5.948	0.200
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	98.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			2.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	98.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090

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
			2.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	98.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			2.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
2' x 2" Pipe Mount	A	From Leg	2.000	0.000	98.000	No Ice	0.023	0.023	0.007
			0.000			1/2" Ice	0.049	0.049	0.008
			1.000			1" Ice	0.085	0.085	0.009
						2" Ice	0.186	0.186	0.013
3' x 2" Pipe Mount	B	From Leg	2.000	0.000	98.000	No Ice	0.583	0.583	0.011
			0.000			1/2" Ice	0.770	0.770	0.017
			1.000			1" Ice	0.967	0.967	0.024
						2" Ice	1.388	1.388	0.047
2' x 2" Pipe Mount	A	From Leg	4.000	0.000	98.000	No Ice	0.023	0.023	0.007
			0.000			1/2" Ice	0.049	0.049	0.008
			2.000			1" Ice	0.085	0.085	0.009
						2" Ice	0.186	0.186	0.013
2' x 2" Pipe Mount	B	From Leg	4.000	0.000	98.000	No Ice	0.023	0.023	0.007
			0.000			1/2" Ice	0.049	0.049	0.008
			2.000			1" Ice	0.085	0.085	0.009
						2" Ice	0.186	0.186	0.013
6' x 2" Mount Pipe	C	From Leg	4.000	0.000	98.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			2.000			1" Ice	2.294	2.294	0.048
						2" Ice	3.060	3.060	0.090
(2) 4.5' x 2" Mount Pipe	A	From Leg	4.000	0.000	98.000	No Ice	0.000	1.024	0.002
			0.000			1/2" Ice	0.000	1.298	0.010
			0.000			1" Ice	0.000	1.580	0.021
						2" Ice	0.000	2.174	0.054
(2) 4.5' x 2" Mount Pipe	B	From Leg	4.000	0.000	98.000	No Ice	0.000	1.024	0.002
			0.000			1/2" Ice	0.000	1.298	0.010
			0.000			1" Ice	0.000	1.580	0.021
						2" Ice	0.000	2.174	0.054
(2) 4.5' x 2" Mount Pipe	C	From Leg	4.000	0.000	98.000	No Ice	0.000	1.024	0.002
			0.000			1/2" Ice	0.000	1.298	0.010
			0.000			1" Ice	0.000	1.580	0.021
						2" Ice	0.000	2.174	0.054
8' x 2" Mount Pipe	A	From Leg	4.000	0.000	98.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
Miscellaneous [NA 507-1]	C	None		0.000	102.000	No Ice	4.560	4.560	0.245
						1/2" Ice	6.390	6.390	0.311
						1" Ice	8.180	8.180	0.402
						2" Ice	11.660	11.660	0.657
Platform Mount [LP 712-1]	C	None		0.000	98.000	No Ice	24.560	24.560	1.335
						1/2" Ice	27.920	27.920	1.915
						1" Ice	31.270	31.270	2.548
						2" Ice	37.980	37.980	3.971
*									
BXA-70040-6CF-EDIN-2 w/ Mount Pipe	A	From Leg	4.000	0.000	85.000	No Ice	12.930	5.680	0.079
			0.000			1/2" Ice	13.650	6.300	0.174
			5.000			1" Ice	14.380	6.930	0.281
						2" Ice	15.900	8.240	0.530
BXA-70063-6CF-2 w/ Mount Pipe	B	From Leg	4.000	0.000	85.000	No Ice	7.340	5.510	0.058
			0.000			1/2" Ice	8.080	6.220	0.115

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
			5.000			1" Ice	8.830	6.940	0.183
						2" Ice	10.380	8.440	0.351
BXA-70063-6CF-2 w/ Mount Pipe	C	From Leg	4.000	0.000	85.000	No Ice	7.340	5.510	0.058
			0.000			1/2" Ice	8.080	6.220	0.115
			5.000			1" Ice	8.830	6.940	0.183
						2" Ice	10.380	8.440	0.351
MT6407-77A	A	From Leg	4.000	0.000	85.000	No Ice	4.692	1.840	0.082
			0.000			1/2" Ice	4.980	2.063	0.111
			5.000			1" Ice	5.275	2.292	0.144
						2" Ice	5.887	2.772	0.223
MT6407-77A	B	From Leg	4.000	0.000	85.000	No Ice	4.692	1.840	0.082
			0.000			1/2" Ice	4.980	2.063	0.111
			5.000			1" Ice	5.275	2.292	0.144
						2" Ice	5.887	2.772	0.223
MT6407-77A	C	From Leg	4.000	0.000	85.000	No Ice	4.692	1.840	0.082
			0.000			1/2" Ice	4.980	2.063	0.111
			5.000			1" Ice	5.275	2.292	0.144
						2" Ice	5.887	2.772	0.223
(2) NHH-65B-R2B w/ Mount Pipe	A	From Leg	4.000	0.000	85.000	No Ice	4.090	3.290	0.069
			0.000			1/2" Ice	4.480	3.670	0.132
			5.000			1" Ice	4.880	4.060	0.205
						2" Ice	5.700	4.860	0.385
(2) NHH-65B-R2B w/ Mount Pipe	B	From Leg	4.000	0.000	85.000	No Ice	4.090	3.290	0.069
			0.000			1/2" Ice	4.480	3.670	0.132
			5.000			1" Ice	4.880	4.060	0.205
						2" Ice	5.700	4.860	0.385
(2) NHH-65B-R2B w/ Mount Pipe	C	From Leg	4.000	0.000	85.000	No Ice	4.090	3.290	0.069
			0.000			1/2" Ice	4.480	3.670	0.132
			5.000			1" Ice	4.880	4.060	0.205
						2" Ice	5.700	4.860	0.385
RFV01U-D2A	A	From Leg	4.000	0.000	85.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			5.000			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	85.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			5.000			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	85.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			5.000			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	85.000	No Ice	3.792	2.514	0.032
			0.000			1/2" Ice	4.044	2.727	0.063
			5.000			1" Ice	4.303	2.947	0.099
						2" Ice	4.844	3.417	0.181
RFV01U-D1A	A	From Leg	4.000	0.000	85.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			5.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
RFV01U-D1A	B	From Leg	4.000	0.000	85.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			5.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
RFV01U-D1A	C	From Leg	4.000	0.000	85.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			5.000			1" Ice	2.223	1.543	0.124

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	2.601	1.865	0.175
3' x 2" Pipe Mount	A	From Leg	2.000 0.000 1.000	0.000	85.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.583 0.770 0.967 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
4' x 2" Pipe Mount	B	From Leg	2.000 0.000 1.000	0.000	85.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
6' x 2.5" Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	85.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.728 2.090 2.461 3.231	1.728 2.090 2.461 3.231	0.035 0.048 0.065 0.112
6' x 2.5" Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	85.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.728 2.090 2.461 3.231	1.728 2.090 2.461 3.231	0.035 0.048 0.065 0.112
6' x 2.5" Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	85.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.728 2.090 2.461 3.231	1.728 2.090 2.461 3.231	0.035 0.048 0.065 0.112
Platform Mount [LP 303-1_KCKR-HR-1]	C	None		0.000	85.000	No Ice 1/2" Ice 1" Ice 2" Ice	28.310 35.690 43.110 58.210	28.310 35.690 43.110 58.210	1.770 2.297 2.943 4.603
*									
KS24019-L112A	A	From Leg	3.000 0.000 1.000	0.000	80.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.141 0.198 0.262 0.415	0.141 0.198 0.262 0.415	0.005 0.007 0.009 0.018
Side Arm Mount [SO 701-1]	A	From Leg	1.500 0.000 0.000	0.000	80.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.850 1.140 1.430 2.010	1.670 2.340 3.010 4.350	0.065 0.079 0.093 0.121
*									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	62.000	No Ice 1/2" Ice 1" Ice 2" Ice	8.010 8.520 9.040 10.110	4.230 4.690 5.160 6.120	0.108 0.194 0.292 0.522
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	62.000	No Ice 1/2" Ice 1" Ice 2" Ice	8.010 8.520 9.040 10.110	4.230 4.690 5.160 6.120	0.108 0.194 0.292 0.522
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	62.000	No Ice 1/2" Ice 1" Ice 2" Ice	8.010 8.520 9.040 10.110	4.230 4.690 5.160 6.120	0.108 0.194 0.292 0.522
TA08025-B605	A	From Leg	4.000 0.000 0.000	0.000	62.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.964 2.138 2.320 2.705	1.129 1.267 1.411 1.723	0.075 0.093 0.114 0.164
TA08025-B605	B	From Leg	4.000 0.000 0.000	0.000	62.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.964 2.138 2.320 2.705	1.129 1.267 1.411 1.723	0.075 0.093 0.114 0.164
TA08025-B605	C	From Leg	4.000 0.000	0.000	62.000	No Ice 1/2" Ice	1.964 2.138	1.129 1.267	0.075 0.093

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			1" Ice	2.320	1.411	0.114
						2" Ice	2.705	1.723	0.164
TA08025-B604	A	From Leg	4.000	0.000	62.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B604	B	From Leg	4.000	0.000	62.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B604	C	From Leg	4.000	0.000	62.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
RDIDC-9181-PF-48	A	From Leg	4.000	0.000	62.000	No Ice	2.012	1.168	0.022
			0.000			1/2" Ice	2.189	1.311	0.040
			0.000			1" Ice	2.373	1.461	0.060
						2" Ice	2.763	1.784	0.110
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	62.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	62.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	62.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
Commscope MC-PK8-DSH	C	None		0.000	62.000	No Ice	34.240	34.240	1.749
						1/2" Ice	62.950	62.950	2.099
						1" Ice	91.660	91.660	2.450
						2" Ice	149.080	149.080	3.151
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**********IMG MODEL**									
Bridge Stiffener (84" x 9" x 1.25")	A	From Leg	1.000	0.000	90.000	No Ice	1.458	7.758	0.030
			0.000			1/2" Ice	2.254	8.290	0.061
			0.000			1" Ice	3.062	8.830	0.099
						2" Ice	4.489	9.931	0.194
Bridge Stiffener (84" x 9" x 1.25")	B	From Leg	1.000	0.000	90.000	No Ice	1.458	7.758	0.030
			0.000			1/2" Ice	2.254	8.290	0.061
			0.000			1" Ice	3.062	8.830	0.099
						2" Ice	4.489	9.931	0.194
Bridge Stiffener (84" x 9" x 1.25")	C	From Leg	1.000	0.000	90.000	No Ice	1.458	7.758	0.030
			0.000			1/2" Ice	2.254	8.290	0.061
			0.000			1" Ice	3.062	8.830	0.099
						2" Ice	4.489	9.931	0.194
*									
Bridge Stiffener (84" x 13.5" x 1.25")	A	From Leg	1.000	0.000	60.000	No Ice	1.458	10.753	0.040
			0.000			1/2" Ice	2.254	11.282	0.084
			0.000			1" Ice	3.062	11.819	0.134

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	4.489	12.913	0.256
Bridge Stiffener (84" x 13.5" x 1.25")	B	From Leg	1.000 0.000	0.000	60.000	No Ice 1/2" Ice	1.458 2.254	10.753 11.282	0.040 0.084
			0.000			1" Ice	3.062	11.819	0.134
						2" Ice	4.489	12.913	0.256
Bridge Stiffener (84" x 13.5" x 1.25")	C	From Leg	1.000 0.000	0.000	60.000	No Ice 1/2" Ice	1.458 2.254	10.753 11.282	0.040 0.084
			0.000			1" Ice	3.062	11.819	0.134
						2" Ice	4.489	12.913	0.256
*									
Bridge Stiffener (84" x 13.5" x 1.25")	A	From Leg	1.000 0.000	0.000	30.000	No Ice 1/2" Ice	1.458 2.254	10.753 11.282	0.040 0.084
			0.000			1" Ice	3.062	11.819	0.134
						2" Ice	4.489	12.913	0.256
Bridge Stiffener (84" x 13.5" x 1.25")	B	From Leg	1.000 0.000	0.000	30.000	No Ice 1/2" Ice	1.458 2.254	10.753 11.282	0.040 0.084
			0.000			1" Ice	3.062	11.819	0.134
						2" Ice	4.489	12.913	0.256
Bridge Stiffener (84" x 13.5" x 1.25")	C	From Leg	1.000 0.000	0.000	30.000	No Ice 1/2" Ice	1.458 2.254	10.753 11.282	0.040 0.084
			0.000			1" Ice	3.062	11.819	0.134
						2" Ice	4.489	12.913	0.256
*									
Bridge Stiffener (48.875" x 12" x 1")	A	From Leg	1.000 0.000	0.000	60.000	No Ice 1/2" Ice	0.679 1.147	5.172 5.503	0.015 0.038
			0.000			1" Ice	1.533	5.840	0.065
						2" Ice	2.146	6.536	0.133
Bridge Stiffener (48.875" x 12" x 1")	B	From Leg	1.000 0.000	0.000	60.000	No Ice 1/2" Ice	0.679 1.147	5.172 5.503	0.015 0.038
			0.000			1" Ice	1.533	5.840	0.065
						2" Ice	2.146	6.536	0.133
Bridge Stiffener (48.875" x 12" x 1")	C	From Leg	1.000 0.000	0.000	60.000	No Ice 1/2" Ice	0.679 1.147	5.172 5.503	0.015 0.038
			0.000			1" Ice	1.533	5.840	0.065
						2" Ice	2.146	6.536	0.133
*									
Bridge Stiffener (66.125" x 14.5" x 1")	A	From Leg	1.000 0.000	0.000	30.000	No Ice 1/2" Ice	0.918 1.546	8.600 9.037	0.025 0.061
			0.000			1" Ice	2.186	9.481	0.103
						2" Ice	3.139	10.390	0.204
Bridge Stiffener (66.125" x 14.5" x 1")	B	From Leg	1.000 0.000	0.000	30.000	No Ice 1/2" Ice	0.918 1.546	8.600 9.037	0.025 0.061
			0.000			1" Ice	2.186	9.481	0.103
						2" Ice	3.139	10.390	0.204
Bridge Stiffener (66.125" x 14.5" x 1")	C	From Leg	1.000 0.000	0.000	30.000	No Ice 1/2" Ice	0.918 1.546	8.600 9.037	0.025 0.061
			0.000			1" Ice	2.186	9.481	0.103
						2" Ice	3.139	10.390	0.204
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Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral / Vert (ft)	Azimuth Adjustment (°)	3 dB Beam Width (°)	Elevation (ft)	Outside Diameter (ft)		Aperture Area (ft^2)	Weight (K)
Andrew VHLP1-23	B	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 2.000	30.000		114.000	1.275	No Ice 1/2" Ice 1" Ice 2" Ice	1.277 1.449 1.621 1.966	0.014 0.022 0.029 0.044
*											
*											

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

Comb. No.	Description
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	118 - 113	Pole	Max Tension	42	0.000	0.000	-0.000
			Max. Compression	26	-7.663	-0.534	-0.287
			Max. Mx	8	-3.062	-7.466	-0.244
			Max. My	14	-3.063	-0.323	-7.344
			Max. Vy	20	-3.392	6.983	0.014
			Max. Vx	2	-3.398	-0.111	7.106
			Max. Torque	4			-0.369
L2	113 - 108	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-8.312	-0.558	-0.272
			Max. Mx	8	-3.452	-25.149	-0.428
			Max. My	14	-3.453	-0.495	-24.995
			Max. Vy	20	-3.686	24.677	0.276
			Max. Vx	2	-3.692	0.074	24.832
			Max. Torque	4			-0.369
L3	108 - 103	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-18.166	-0.590	-0.247
			Max. Mx	8	-8.473	-63.976	-0.619
			Max. My	14	-8.476	-0.682	-63.782
			Max. Vy	20	-7.912	63.509	0.553
			Max. Vx	2	-7.918	0.265	63.696
			Max. Torque	4			-0.369
L4	103 - 98	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-19.417	-0.622	-0.220
			Max. Mx	8	-9.199	-105.101	-0.810
			Max. My	14	-9.202	-0.869	-104.866
			Max. Vy	20	-8.410	104.640	0.832
			Max. Vx	2	-8.416	0.456	104.858
			Max. Torque	4			-0.369
L5	98 - 93	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-29.580	-1.990	0.008
			Max. Mx	8	-13.333	-180.709	-1.425
			Max. My	2	-13.344	0.733	179.172
			Max. Vy	20	-13.761	179.480	1.552
			Max. Vx	2	-13.626	0.733	179.172
			Max. Torque	24			-1.068
L6	93 - 90	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-30.025	-2.010	0.030
			Max. Mx	8	-13.657	-222.193	-1.724
			Max. My	2	-13.667	1.034	220.255
			Max. Vy	20	-13.905	220.966	1.908
			Max. Vx	2	-13.770	1.034	220.255
			Max. Torque	24			-1.068
L7	90 - 85	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	-31.385	-2.040	0.068
			Max. Mx	8	-14.459	-294.702	-2.221
			Max. My	2	-14.469	1.535	292.096
			Max. Vy	20	-14.632	293.479	2.502
			Max. Vx	2	-14.497	1.535	292.096
			Max. Torque	24			-1.067
L8	85 - 80	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-41.121	-2.051	1.603
			Max. Mx	8	-18.969	-398.478	-2.405
			Max. My	2	-18.967	2.018	397.749
			Max. Vy	20	-18.654	397.202	3.421
			Max. Vx	2	-18.727	2.018	397.749
			Max. Torque	22			-1.414
L9	80 - 76.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-42.074	-1.956	2.057
			Max. Mx	8	-19.637	-464.230	-2.523
			Max. My	2	-19.637	2.416	463.899
			Max. Vy	20	-18.882	463.043	4.073
			Max. Vx	2	-18.904	2.416	463.899
			Max. Torque	22			-1.595
L10	76.5 - 76.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-42.150	-1.950	2.065
			Max. Mx	8	-19.702	-468.945	-2.546
			Max. My	2	-19.703	2.445	468.625
			Max. Vy	20	-18.896	467.767	4.105
			Max. Vx	2	-18.905	2.445	468.625
			Max. Torque	22			-1.594
L11	76.25 - 74	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-42.875	-1.887	2.133
			Max. Mx	8	-20.183	-511.648	-2.755
			Max. My	2	-20.183	2.701	511.419
			Max. Vy	20	-19.125	510.555	4.389
			Max. Vx	14	19.133	-3.676	-509.770
			Max. Torque	22			-1.594
L12	74 - 73.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-42.982	-1.880	2.142
			Max. Mx	8	-20.264	-516.424	-2.778
			Max. My	2	-20.265	2.729	516.205
			Max. Vy	20	-19.146	515.340	4.421
			Max. Vx	14	19.155	-3.698	-514.552
			Max. Torque	22			-1.594
L13	73.75 - 68.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.154	-1.737	2.296
			Max. Mx	8	-21.738	-613.422	-3.242
			Max. My	2	-21.740	3.298	613.382
			Max. Vy	20	-19.709	612.522	5.052
			Max. Vx	14	19.734	-4.131	-611.720
			Max. Torque	22			-1.594
L14	68.75 - 68.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.260	-1.730	2.304
			Max. Mx	8	-21.811	-618.346	-3.265
			Max. My	2	-21.812	3.327	618.313
			Max. Vy	20	-19.738	617.455	5.084
			Max. Vx	14	19.757	-4.153	-616.653
			Max. Torque	22			-1.593
L15	68.5 - 68.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.352	-1.723	2.311
			Max. Mx	8	-21.865	-623.279	-3.289
			Max. My	2	-21.867	3.355	623.250
			Max. Vy	20	-19.770	622.396	5.115
			Max. Vx	14	19.784	-4.174	-621.593

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	22			-1.593
L16	68.25 - 64.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-46.693	-1.614	2.424
			Max. Mx	8	-22.689	-698.184	-3.638
			Max. My	2	-22.695	3.782	698.027
			Max. Vy	8	20.230	-698.184	-3.638
			Max. Vx	14	20.166	-4.497	-696.440
			Max. Torque	22			-1.593
L17	64.5 - 64.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-46.814	-1.607	2.433
			Max. Mx	8	-22.785	-703.239	-3.661
			Max. My	2	-22.792	3.811	703.059
			Max. Vy	8	20.251	-703.239	-3.661
			Max. Vx	14	20.180	-4.519	-701.479
			Max. Torque	22			-1.593
L18	64.25 - 63	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.420	-1.571	2.469
			Max. Mx	8	-23.196	-728.640	-3.777
			Max. My	2	-23.204	3.953	728.323
			Max. Vy	8	20.429	-728.640	-3.777
			Max. Vx	14	20.328	-4.626	-726.779
			Max. Torque	22			-1.593
L19	63 - 62.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.538	-1.563	2.477
			Max. Mx	8	-23.285	-733.746	-3.800
			Max. My	2	-23.293	3.981	733.397
			Max. Vy	8	20.455	-733.746	-3.800
			Max. Vx	14	20.347	-4.648	-731.859
			Max. Torque	22			-1.593
L20	62.75 - 60	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-54.521	-1.469	2.979
			Max. Mx	8	-27.299	-795.819	-3.928
			Max. My	2	-27.307	4.300	795.281
			Max. Vy	8	23.488	-795.819	-3.928
			Max. Vx	14	23.405	-4.879	-793.569
			Max. Torque	22			-1.749
L21	60 - 59.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-55.462	-1.458	2.990
			Max. Mx	8	-27.553	-801.900	-3.951
			Max. My	2	-27.561	4.330	801.335
			Max. Vy	8	24.359	-801.900	-3.951
			Max. Vx	14	24.276	-4.900	-799.631
			Max. Torque	22			-1.749
L22	59.75 - 54.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.626	-1.235	3.164
			Max. Mx	8	-29.130	-925.047	-4.399
			Max. My	2	-29.137	4.930	923.927
			Max. Vy	8	24.945	-925.047	-4.399
			Max. Vx	14	24.865	-5.301	-922.408
			Max. Torque	22			-1.749
L23	54.75 - 49.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-59.803	-0.996	3.321
			Max. Mx	8	-30.728	-1051.018	-4.846
			Max. My	2	-30.735	5.529	1049.311
			Max. Vy	8	25.497	-1051.018	-4.846
			Max. Vx	14	25.413	-5.701	-1048.005
			Max. Torque	22			-1.749
L24	49.75 - 49.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-60.100	-0.958	3.336
			Max. Mx	8	-30.945	-1068.030	-4.906
			Max. My	2	-30.952	5.609	1066.243

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	8	25.567	-1068.030	-4.906
			Max. Vx	14	25.479	-5.754	-1064.963
			Max. Torque	22			-1.748
L25	49.083 - 48.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-60.218	-0.943	3.342
			Max. Mx	8	-31.036	-1074.418	-4.928
			Max. My	2	-31.043	5.638	1072.601
			Max. Vy	8	25.591	-1074.418	-4.928
			Max. Vx	14	25.502	-5.774	-1071.332
			Max. Torque	22			-1.748
L26	48.833 - 43.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.563	-0.658	3.452
			Max. Mx	8	-32.746	-1203.674	-5.374
			Max. My	2	-32.753	6.236	1201.257
			Max. Vy	8	26.158	-1203.674	-5.374
			Max. Vx	14	26.042	-6.171	-1200.110
			Max. Torque	22			-1.748
L27	43.833 - 42	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.443	-0.554	3.492
			Max. Mx	8	-33.371	-1251.751	-5.537
			Max. My	2	-33.378	6.455	1249.114
			Max. Vy	8	26.368	-1251.751	-5.537
			Max. Vx	14	26.244	-6.316	-1247.980
			Max. Torque	22			-1.748
L28	42 - 41.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.574	-0.540	3.498
			Max. Mx	8	-33.482	-1258.336	-5.560
			Max. My	2	-33.488	6.484	1255.669
			Max. Vy	8	26.378	-1258.336	-5.560
			Max. Vx	14	26.253	-6.336	-1254.536
			Max. Torque	22			-1.748
L29	41.75 - 36.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.200	-0.257	3.607
			Max. Mx	8	-35.384	-1391.491	-6.004
			Max. My	2	-35.390	7.080	1388.223
			Max. Vy	8	26.932	-1391.491	-6.004
			Max. Vx	14	26.787	-6.730	-1387.051
			Max. Torque	22			-1.748
L30	36.75 - 34.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.399	-0.130	3.654
			Max. Mx	8	-36.246	-1452.287	-6.204
			Max. My	2	-36.252	7.348	1448.748
			Max. Vy	8	27.172	-1452.287	-6.204
			Max. Vx	2	-27.022	7.348	1448.748
			Max. Torque	22			-1.747
L31	34.5 - 34.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.544	-0.116	3.659
			Max. Mx	8	-36.361	-1459.076	-6.226
			Max. My	2	-36.366	7.377	1455.506
			Max. Vy	8	27.188	-1459.076	-6.226
			Max. Vx	2	-27.038	7.377	1455.506
			Max. Torque	22			-1.747
L32	34.25 - 34	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.689	-0.102	3.664
			Max. Mx	8	-36.466	-1465.871	-6.249
			Max. My	2	-36.471	7.407	1462.270
			Max. Vy	8	27.215	-1465.871	-6.249
			Max. Vx	2	-27.064	7.407	1462.270
			Max. Torque	22			-1.747

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L33	34 - 33.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-67.825	-0.088	3.669
			Max. Mx	8	-36.562	-1472.672	-6.271
			Max. My	2	-36.567	7.437	1469.042
			Max. Vy	8	27.242	-1472.672	-6.271
			Max. Vx	2	-27.091	7.437	1469.042
			Max. Torque	22			-1.747
L34	33.75 - 30	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.784	0.123	3.746
			Max. Mx	8	-38.002	-1575.429	-6.603
			Max. My	2	-38.006	7.881	1571.333
			Max. Vy	8	27.619	-1575.429	-6.603
			Max. Vx	2	-27.464	7.881	1571.333
			Max. Torque	22			-1.747
L35	30 - 29.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-70.830	0.132	3.756
			Max. Mx	8	-38.320	-1582.547	-6.625
			Max. My	2	-38.324	7.912	1578.421
			Max. Vy	8	28.513	-1582.547	-6.625
			Max. Vx	2	-28.359	7.912	1578.421
			Max. Torque	22			-1.747
L36	29.75 - 28.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.450	0.203	3.798
			Max. Mx	8	-38.751	-1618.243	-6.732
			Max. My	2	-38.756	8.064	1613.966
			Max. Vy	8	28.665	-1618.243	-6.732
			Max. Vx	2	-28.509	8.064	1613.966
			Max. Torque	22			-1.747
L37	28.5 - 28.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.584	0.219	3.807
			Max. Mx	8	-38.860	-1625.403	-6.754
			Max. My	2	-38.865	8.094	1621.095
			Max. Vy	8	28.679	-1625.403	-6.754
			Max. Vx	2	-28.522	8.094	1621.095
			Max. Torque	22			-1.747
L38	28.25 - 27.942	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.766	0.237	3.817
			Max. Mx	8	-38.996	-1634.233	-6.781
			Max. My	2	-39.000	8.132	1629.888
			Max. Vy	8	28.715	-1634.233	-6.781
			Max. Vx	2	-28.558	8.132	1629.888
			Max. Torque	22			-1.747
L39	27.942 - 27.692	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.913	0.253	3.826
			Max. Mx	8	-39.106	-1641.410	-6.802
			Max. My	2	-39.110	8.162	1637.033
			Max. Vy	8	28.745	-1641.410	-6.802
			Max. Vx	2	-28.586	8.162	1637.033
			Max. Torque	22			-1.747
L40	27.692 - 23	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-74.714	0.585	3.937
			Max. Mx	8	-41.159	-1777.480	-7.206
			Max. My	2	-41.163	8.730	1772.505
			Max. Vy	8	29.314	-1777.480	-7.206
			Max. Vx	2	-29.148	8.730	1772.505
			Max. Torque	22			-1.747
L41	23 - 22.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-74.871	0.604	3.941
			Max. Mx	8	-41.284	-1784.803	-7.228
			Max. My	2	-41.287	8.761	1779.795

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	8	29.332	-1784.803	-7.228
			Max. Vx	2	-29.167	8.761	1779.795
			Max. Torque	22			-1.747
L42	22.75 - 21.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.655	0.703	3.960
			Max. Mx	8	-41.854	-1821.531	-7.335
			Max. My	2	-41.858	8.912	1816.358
			Max. Vy	8	29.492	-1821.531	-7.335
			Max. Vx	2	-29.326	8.912	1816.358
			Max. Torque	22			-1.747
L43	21.5 - 21.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.802	0.723	3.964
			Max. Mx	8	-41.969	-1828.899	-7.356
			Max. My	2	-41.973	8.942	1823.692
			Max. Vy	8	29.510	-1828.899	-7.356
			Max. Vx	2	-29.343	8.942	1823.692
			Max. Torque	22			-1.747
L44	21.25 - 21	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.949	0.742	3.968
			Max. Mx	8	-42.077	-1836.274	-7.378
			Max. My	2	-42.080	8.972	1831.034
			Max. Vy	8	29.539	-1836.274	-7.378
			Max. Vx	2	-29.372	8.972	1831.034
			Max. Torque	22			-1.747
L45	21 - 20.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.092	0.762	3.972
			Max. Mx	8	-42.179	-1843.656	-7.399
			Max. My	2	-42.183	9.002	1838.383
			Max. Vy	8	29.567	-1843.656	-7.399
			Max. Vx	2	-29.400	9.002	1838.383
			Max. Torque	22			-1.747
L46	20.75 - 19	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.104	0.905	3.999
			Max. Mx	8	-42.885	-1895.526	-7.549
			Max. My	2	-42.889	9.214	1890.017
			Max. Vy	8	29.785	-1895.526	-7.549
			Max. Vx	2	-29.614	9.214	1890.017
			Max. Torque	22			-1.746
L47	19 - 18.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.260	0.924	4.004
			Max. Mx	8	-43.017	-1902.965	-7.571
			Max. My	2	-43.020	9.244	1897.421
			Max. Vy	8	29.792	-1902.965	-7.571
			Max. Vx	2	-29.620	9.244	1897.421
			Max. Torque	22			-1.746
L48	18.75 - 18.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.416	0.943	4.007
			Max. Mx	8	-43.134	-1910.410	-7.592
			Max. My	2	-43.137	9.274	1904.832
			Max. Vy	8	29.819	-1910.410	-7.592
			Max. Vx	2	-29.648	9.274	1904.832
			Max. Torque	22			-1.746
L49	18.5 - 18.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-77.569	0.963	4.011
			Max. Mx	8	-43.247	-1917.862	-7.614
			Max. My	2	-43.250	9.304	1912.250
			Max. Vy	8	29.847	-1917.862	-7.614
			Max. Vx	2	-29.675	9.304	1912.250
			Max. Torque	22			-1.746
L50	18.25 - 13.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-80.581	1.300	4.138

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	-45.525	-2068.223	-8.041
			Max. My	2	-45.527	9.906	2061.920
			Max. Vy	8	30.355	-2068.223	-8.041
			Max. Vx	2	-30.182	9.906	2061.920
			Max. Torque	22			-1.746
L51	13.25 - 12.7	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-80.912	1.333	4.160
			Max. Mx	8	-45.781	-2084.912	-8.088
			Max. My	2	-45.783	9.972	2078.533
			Max. Vy	8	30.400	-2084.912	-8.088
			Max. Vx	2	-30.227	9.972	2078.533
			Max. Torque	22			-1.746
L52	12.7 - 12.35	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-81.135	1.354	4.173
			Max. Mx	8	-45.956	-2095.548	-8.117
			Max. My	2	-45.958	10.014	2089.120
			Max. Vy	8	30.430	-2095.548	-8.117
			Max. Vx	2	-30.257	10.014	2089.120
			Max. Torque	22			-1.746
L53	12.35 - 12.125	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-81.278	1.368	4.182
			Max. Mx	8	-46.069	-2102.391	-8.137
			Max. My	2	-46.071	10.041	2095.932
			Max. Vy	8	30.449	-2102.391	-8.137
			Max. Vx	2	-30.276	10.041	2095.932
			Max. Torque	22			-1.746
L54	12.125 - 12	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-81.357	1.375	4.187
			Max. Mx	8	-46.132	-2106.194	-8.147
			Max. My	2	-46.134	10.056	2099.718
			Max. Vy	8	30.460	-2106.194	-8.147
			Max. Vx	2	-30.287	10.056	2099.718
			Max. Torque	22			-1.746
L55	12 - 11.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-81.520	1.390	4.197
			Max. Mx	8	-46.258	-2113.806	-8.169
			Max. My	2	-46.260	10.086	2107.296
			Max. Vy	8	30.485	-2113.806	-8.169
			Max. Vx	2	-30.312	10.086	2107.296
			Max. Torque	22			-1.746
L56	11.75 - 8.375	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-83.711	1.590	4.326
			Max. Mx	8	-47.965	-2217.158	-8.455
			Max. My	2	-47.967	10.490	2210.183
			Max. Vy	8	30.822	-2217.158	-8.455
			Max. Vx	2	-30.650	10.490	2210.183
			Max. Torque	22			-1.746
L57	8.375 - 8.125	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-83.870	1.604	4.336
			Max. Mx	8	-48.098	-2224.857	-8.476
			Max. My	2	-48.099	10.520	2217.848
			Max. Vy	8	30.833	-2224.857	-8.476
			Max. Vx	2	-30.662	10.520	2217.848
			Max. Torque	22			-1.746
L58	8.125 - 7.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.107	1.626	4.350
			Max. Mx	8	-48.283	-2236.417	-8.508
			Max. My	2	-48.284	10.564	2229.356
			Max. Vy	8	30.871	-2236.417	-8.508
			Max. Vx	2	-30.699	10.564	2229.356
			Max. Torque	22			-1.746

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L59	7.75 - 7.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.267	1.641	4.359
			Max. Mx	8	-48.409	-2244.131	-8.529
			Max. My	2	-48.410	10.594	2237.036
			Max. Vy	8	30.893	-2244.131	-8.529
			Max. Vx	2	-30.721	10.594	2237.036
			Max. Torque	22			-1.746
L60	7.5 - 7.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.430	1.655	4.369
			Max. Mx	8	-48.539	-2251.851	-8.551
			Max. My	2	-48.541	10.624	2244.721
			Max. Vy	8	30.916	-2251.851	-8.551
			Max. Vx	2	-30.745	10.624	2244.721
			Max. Torque	22			-1.746
L61	7.25 - 4	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.528	1.851	4.456
			Max. Mx	8	-50.225	-2352.738	-8.825
			Max. My	2	-50.226	11.011	2345.164
			Max. Vy	8	31.230	-2352.738	-8.825
			Max. Vx	2	-31.059	11.011	2345.164
			Max. Torque	22			-1.746
L62	4 - 3.733	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.705	1.867	4.461
			Max. Mx	8	-50.379	-2361.070	-8.848
			Max. My	2	-50.379	11.043	2353.459
			Max. Vy	8	31.242	-2361.070	-8.848
			Max. Vx	2	-31.071	11.043	2353.459
			Max. Torque	22			-1.746
L63	3.733 - 3.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.804	1.876	4.464
			Max. Mx	8	-50.461	-2365.753	-8.861
			Max. My	2	-50.462	11.061	2358.122
			Max. Vy	8	31.255	-2365.753	-8.861
			Max. Vx	2	-31.085	11.061	2358.122
			Max. Torque	22			-1.746
L64	3.583 - 3	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.188	1.911	4.476
			Max. Mx	8	-50.774	-2383.978	-8.910
			Max. My	2	-50.775	11.130	2376.267
			Max. Vy	8	31.317	-2383.978	-8.910
			Max. Vx	2	-31.147	11.130	2376.267
			Max. Torque	22			-1.746
L65	3 - 2.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.353	1.926	4.480
			Max. Mx	8	-50.912	-2391.803	-8.931
			Max. My	2	-50.913	11.160	2384.058
			Max. Vy	8	31.337	-2391.803	-8.931
			Max. Vx	2	-31.167	11.160	2384.058
			Max. Torque	22			-1.746
L66	2.75 - 1.9	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.841	1.976	4.497
			Max. Mx	8	-51.304	-2418.451	-9.002
			Max. My	2	-51.304	11.261	2410.591
			Max. Vy	8	31.424	-2418.451	-9.002
			Max. Vx	2	-31.254	11.261	2410.591
			Max. Torque	22			-1.746
L67	1.9 - 1.65	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.981	1.991	4.501
			Max. Mx	8	-51.427	-2426.301	-9.023
			Max. My	2	-51.427	11.290	2418.407
			Max. Vy	8	31.435	-2426.301	-9.023

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L68	1.65 - 0	Pole	Max. Vx	2	-31.265	11.290	2418.407
			Max. Torque	22			-1.746
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-88.863	2.081	4.530
			Max. Mx	8	-52.186	-2478.232	-9.162
			Max. My	2	-52.186	11.486	2470.115
			Max. Vy	8	31.586	-2478.232	-9.162
			Max. Vx	2	-31.418	11.486	2470.115
			Max. Torque	22			-1.746

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	28	88.863	-4.213	7.333
	Max. H_x	20	52.204	30.959	0.110
	Max. H_z	2	52.204	0.097	31.390
	Max. M_x	2	2470.115	0.097	31.390
	Max. M_z	8	2478.232	-31.558	-0.097
	Max. Torsion	10	1.673	-27.002	-15.686
	Min. Vert	19	39.153	26.925	-15.541
	Min. H_x	8	52.204	-31.558	-0.097
	Min. H_z	14	52.204	-0.093	-31.133
	Min. M_x	14	-2465.102	-0.093	-31.133
	Min. M_z	20	-2465.502	30.959	0.110
	Min. Torsion	22	-1.746	27.101	15.748

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	43.503	0.000	0.000	-1.229	0.634	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	52.204	-0.097	-31.390	-2470.115	11.486	1.045
0.9 Dead+1.0 Wind 0 deg - No Ice	39.153	-0.097	-31.390	-2446.640	11.181	1.032
1.2 Dead+1.0 Wind 30 deg - No Ice	52.204	15.816	-27.596	-2166.660	-1237.820	0.149
0.9 Dead+1.0 Wind 30 deg - No Ice	39.153	15.816	-27.596	-2146.094	-1226.476	0.141
1.2 Dead+1.0 Wind 60 deg - No Ice	52.204	27.519	-15.870	-1242.885	-2155.699	-0.708
0.9 Dead+1.0 Wind 60 deg - No Ice	39.153	27.519	-15.870	-1230.937	-2135.779	-0.710
1.2 Dead+1.0 Wind 90 deg - No Ice	52.204	31.558	0.097	9.162	-2478.232	-1.389
0.9 Dead+1.0 Wind 90 deg - No Ice	39.153	31.558	0.097	9.439	-2455.268	-1.383
1.2 Dead+1.0 Wind 120 deg - No Ice	52.204	27.002	15.686	1238.480	-2131.446	-1.673
0.9 Dead+1.0 Wind 120 deg -	39.153	27.002	15.686	1227.257	-2111.658	-1.662

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
No Ice						
1.2 Dead+1.0 Wind 150 deg - No Ice	52.204	15.611	27.021	2138.462	-1237.566	-1.527
0.9 Dead+1.0 Wind 150 deg - No Ice	39.153	15.611	27.021	2118.831	-1226.146	-1.514
1.2 Dead+1.0 Wind 180 deg - No Ice	52.204	0.093	31.133	2465.102	-9.446	-1.008
0.9 Dead+1.0 Wind 180 deg - No Ice	39.153	0.093	31.133	2442.420	-9.520	-0.995
1.2 Dead+1.0 Wind 210 deg - No Ice	52.204	-15.655	27.289	2157.546	1237.747	-0.183
0.9 Dead+1.0 Wind 210 deg - No Ice	39.153	-15.655	27.289	2137.799	1226.024	-0.174
1.2 Dead+1.0 Wind 240 deg - No Ice	52.204	-26.925	15.541	1231.441	2139.644	0.640
0.9 Dead+1.0 Wind 240 deg - No Ice	39.153	-26.925	15.541	1220.311	2119.438	0.642
1.2 Dead+1.0 Wind 270 deg - No Ice	52.204	-30.959	-0.110	-13.879	2465.502	1.452
0.9 Dead+1.0 Wind 270 deg - No Ice	39.153	-30.959	-0.110	-13.346	2442.221	1.447
1.2 Dead+1.0 Wind 300 deg - No Ice	52.204	-27.101	-15.748	-1246.661	2140.765	1.746
0.9 Dead+1.0 Wind 300 deg - No Ice	39.153	-27.101	-15.748	-1234.609	2120.549	1.735
1.2 Dead+1.0 Wind 330 deg - No Ice	52.204	-15.639	-27.069	-2139.707	1238.027	1.600
0.9 Dead+1.0 Wind 330 deg - No Ice	39.153	-15.639	-27.069	-2119.291	1226.238	1.586
1.2 Dead+1.0 Ice+1.0 Temp	88.863	0.000	-0.000	-4.530	2.081	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	88.863	-0.020	-8.320	-711.138	4.406	0.301
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	88.863	4.213	-7.333	-625.076	-353.783	0.058
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	88.863	7.284	-4.198	-359.459	-614.256	-0.176
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	88.863	8.377	0.020	-2.420	-708.025	-0.374
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	88.863	7.175	4.158	349.695	-608.932	-0.462
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	88.863	4.154	7.186	607.295	-352.103	-0.430
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	88.863	0.019	8.284	701.080	-0.047	-0.290
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	88.863	-4.191	7.288	614.535	357.859	-0.058
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	88.863	-7.180	4.142	348.443	614.888	0.167
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	88.863	-8.274	-0.023	-7.435	709.243	0.390
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	88.863	-7.193	-4.170	-360.147	614.666	0.472
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	88.863	-4.153	-7.183	-616.580	356.247	0.442
Dead+Wind 0 deg - Service	43.503	-0.024	-7.776	-609.397	3.266	0.264
Dead+Wind 30 deg - Service	43.503	3.918	-6.836	-534.655	-304.500	0.046
Dead+Wind 60 deg - Service	43.503	6.817	-3.931	-307.083	-530.616	-0.167
Dead+Wind 90 deg - Service	43.503	7.818	0.024	1.358	-610.066	-0.342
Dead+Wind 120 deg - Service	43.503	6.689	3.886	304.195	-524.629	-0.419
Dead+Wind 150 deg - Service	43.503	3.867	6.694	525.905	-304.427	-0.385
Dead+Wind 180 deg - Service	43.503	0.023	7.713	606.369	-1.884	-0.254

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
Dead+Wind 210 deg - Service	43.503	-3.878	6.760	530.615	305.360	-0.047
Dead+Wind 240 deg - Service	43.503	-6.670	3.850	302.465	527.531	0.157
Dead+Wind 270 deg - Service	43.503	-7.669	-0.027	-4.311	607.800	0.357
Dead+Wind 300 deg - Service	43.503	-6.714	-3.901	-308.005	527.809	0.429
Dead+Wind 330 deg - Service	43.503	-3.874	-6.706	-528.002	305.419	0.396

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	-43.503	0.000	0.000	43.503	0.000	0.000%
2	-0.097	-52.204	-31.390	0.097	52.204	31.390	0.000%
3	-0.097	-39.153	-31.390	0.097	39.153	31.390	0.000%
4	15.816	-52.204	-27.596	-15.816	52.204	27.596	0.000%
5	15.816	-39.153	-27.596	-15.816	39.153	27.596	0.000%
6	27.519	-52.204	-15.870	-27.519	52.204	15.870	0.000%
7	27.519	-39.153	-15.870	-27.519	39.153	15.870	0.000%
8	31.558	-52.204	0.097	-31.558	52.204	-0.097	0.000%
9	31.558	-39.153	0.097	-31.558	39.153	-0.097	0.000%
10	27.002	-52.204	15.686	-27.002	52.204	-15.686	0.000%
11	27.002	-39.153	15.686	-27.002	39.153	-15.686	0.000%
12	15.611	-52.204	27.021	-15.611	52.204	-27.021	0.000%
13	15.611	-39.153	27.021	-15.611	39.153	-27.021	0.000%
14	0.093	-52.204	31.133	-0.093	52.204	-31.133	0.000%
15	0.093	-39.153	31.133	-0.093	39.153	-31.133	0.000%
16	-15.655	-52.204	27.289	15.655	52.204	-27.289	0.000%
17	-15.655	-39.153	27.289	15.655	39.153	-27.289	0.000%
18	-26.925	-52.204	15.541	26.925	52.204	-15.541	0.000%
19	-26.925	-39.153	15.541	26.925	39.153	-15.541	0.000%
20	-30.959	-52.204	-0.110	30.959	52.204	0.110	0.000%
21	-30.959	-39.153	-0.110	30.959	39.153	0.110	0.000%
22	-27.101	-52.204	-15.748	27.101	52.204	15.748	0.000%
23	-27.101	-39.153	-15.748	27.101	39.153	15.748	0.000%
24	-15.639	-52.204	-27.069	15.639	52.204	27.069	0.000%
25	-15.639	-39.153	-27.069	15.639	39.153	27.069	0.000%
26	0.000	-88.863	0.000	-0.000	88.863	0.000	0.000%
27	-0.020	-88.863	-8.320	0.020	88.863	8.320	0.000%
28	4.213	-88.863	-7.333	-4.213	88.863	7.333	0.000%
29	7.284	-88.863	-4.198	-7.284	88.863	4.198	0.000%
30	8.377	-88.863	0.020	-8.377	88.863	-0.020	0.000%
31	7.175	-88.863	4.158	-7.175	88.863	-4.158	0.000%
32	4.154	-88.863	7.186	-4.154	88.863	-7.186	0.000%
33	0.019	-88.863	8.284	-0.019	88.863	-8.284	0.000%
34	-4.191	-88.863	7.288	4.191	88.863	-7.288	0.000%
35	-7.180	-88.863	4.142	7.180	88.863	-4.142	0.000%
36	-8.274	-88.863	-0.023	8.274	88.863	0.023	0.000%
37	-7.193	-88.863	-4.170	7.193	88.863	4.170	0.000%
38	-4.153	-88.863	-7.183	4.153	88.863	7.183	0.000%
39	-0.024	-43.503	-7.776	0.024	43.503	7.776	0.000%
40	3.918	-43.503	-6.836	-3.918	43.503	6.836	0.000%
41	6.817	-43.503	-3.931	-6.817	43.503	3.931	0.000%
42	7.818	-43.503	0.024	-7.818	43.503	-0.024	0.000%
43	6.689	-43.503	3.886	-6.689	43.503	-3.886	0.000%
44	3.867	-43.503	6.694	-3.867	43.503	-6.694	0.000%
45	0.023	-43.503	7.713	-0.023	43.503	-7.713	0.000%
46	-3.878	-43.503	6.760	3.878	43.503	-6.760	0.000%
47	-6.670	-43.503	3.850	6.670	43.503	-3.850	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
48	-7.669	-43.503	-0.027	7.669	43.503	0.027	0.000%
49	-6.714	-43.503	-3.901	6.714	43.503	3.901	0.000%
50	-3.874	-43.503	-6.706	3.874	43.503	6.706	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00025655
3	Yes	5	0.00000001	0.00011865
4	Yes	6	0.00000001	0.00023860
5	Yes	6	0.00000001	0.00008234
6	Yes	6	0.00000001	0.00024185
7	Yes	6	0.00000001	0.00008360
8	Yes	5	0.00000001	0.00033500
9	Yes	5	0.00000001	0.00015869
10	Yes	6	0.00000001	0.00022605
11	Yes	6	0.00000001	0.00007791
12	Yes	6	0.00000001	0.00024783
13	Yes	6	0.00000001	0.00008596
14	Yes	5	0.00000001	0.00034427
15	Yes	5	0.00000001	0.00016244
16	Yes	6	0.00000001	0.00023517
17	Yes	6	0.00000001	0.00008123
18	Yes	6	0.00000001	0.00023103
19	Yes	6	0.00000001	0.00007983
20	Yes	5	0.00000001	0.00046361
21	Yes	5	0.00000001	0.00022221
22	Yes	6	0.00000001	0.00025103
23	Yes	6	0.00000001	0.00008702
24	Yes	6	0.00000001	0.00022720
25	Yes	6	0.00000001	0.00007825
26	Yes	4	0.00000001	0.00043802
27	Yes	6	0.00000001	0.00050181
28	Yes	6	0.00000001	0.00055138
29	Yes	6	0.00000001	0.00054919
30	Yes	6	0.00000001	0.00050083
31	Yes	6	0.00000001	0.00053980
32	Yes	6	0.00000001	0.00054084
33	Yes	6	0.00000001	0.00049243
34	Yes	6	0.00000001	0.00053909
35	Yes	6	0.00000001	0.00053604
36	Yes	6	0.00000001	0.00049642
37	Yes	6	0.00000001	0.00054730
38	Yes	6	0.00000001	0.00054545
39	Yes	4	0.00000001	0.00066505
40	Yes	5	0.00000001	0.00008675
41	Yes	5	0.00000001	0.00008959
42	Yes	4	0.00000001	0.00072414
43	Yes	5	0.00000001	0.00007775
44	Yes	5	0.00000001	0.00009594
45	Yes	4	0.00000001	0.00067228
46	Yes	5	0.00000001	0.00008312
47	Yes	5	0.00000001	0.00008041
48	Yes	4	0.00000001	0.00075974

49	Yes	5	0.00000001	0.00009846
50	Yes	5	0.00000001	0.00007858

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	118 - 113	14.067	40	1.030	0.003
L2	113 - 108	12.988	40	1.029	0.003
L3	108 - 103	11.912	40	1.025	0.003
L4	103 - 98	10.844	40	1.014	0.003
L5	98 - 93	9.793	40	0.991	0.003
L6	93 - 90	8.774	40	0.953	0.003
L7	90 - 85	8.185	40	0.921	0.002
L8	85 - 80	7.243	40	0.875	0.002
L9	80 - 76.5	6.358	40	0.812	0.002
L10	76.5 - 76.25	5.783	40	0.758	0.002
L11	76.25 - 74	5.743	40	0.755	0.002
L12	74 - 73.75	5.393	40	0.729	0.001
L13	73.75 - 68.75	5.355	40	0.727	0.001
L14	68.75 - 68.5	4.617	40	0.682	0.001
L15	68.5 - 68.25	4.581	40	0.679	0.001
L16	68.25 - 64.5	4.546	40	0.675	0.001
L17	64.5 - 64.25	4.038	40	0.616	0.001
L18	64.25 - 63	4.006	40	0.613	0.001
L19	63 - 62.75	3.847	40	0.601	0.001
L20	62.75 - 60	3.816	40	0.598	0.001
L21	60 - 59.75	3.480	40	0.567	0.001
L22	59.75 - 54.75	3.451	40	0.565	0.001
L23	54.75 - 49.75	2.882	40	0.520	0.001
L24	49.75 - 49.083	2.364	40	0.468	0.001
L25	49.083 - 48.833	2.299	40	0.461	0.001
L26	48.833 - 43.833	2.275	40	0.458	0.001
L27	43.833 - 42	1.820	40	0.411	0.001
L28	42 - 41.75	1.665	40	0.393	0.001
L29	41.75 - 36.75	1.645	40	0.390	0.000
L30	36.75 - 34.5	1.261	40	0.342	0.000
L31	34.5 - 34.25	1.106	40	0.318	0.000
L32	34.25 - 34	1.089	40	0.316	0.000
L33	34 - 33.75	1.073	40	0.313	0.000
L34	33.75 - 30	1.056	40	0.310	0.000
L35	30 - 29.75	0.830	40	0.266	0.000
L36	29.75 - 28.5	0.816	40	0.264	0.000
L37	28.5 - 28.25	0.749	40	0.250	0.000
L38	28.25 - 27.942	0.736	40	0.247	0.000
L39	27.942 - 27.692	0.720	40	0.245	0.000
L40	27.692 - 23	0.707	40	0.243	0.000
L41	23 - 22.75	0.488	40	0.203	0.000
L42	22.75 - 21.5	0.477	40	0.201	0.000
L43	21.5 - 21.25	0.426	40	0.191	0.000
L44	21.25 - 21	0.416	40	0.189	0.000
L45	21 - 20.75	0.406	40	0.187	0.000
L46	20.75 - 19	0.396	40	0.185	0.000
L47	19 - 18.75	0.331	40	0.168	0.000
L48	18.75 - 18.5	0.323	40	0.166	0.000
L49	18.5 - 18.25	0.314	40	0.164	0.000
L50	18.25 - 13.25	0.306	40	0.161	0.000
L51	13.25 - 12.7	0.160	40	0.115	0.000
L52	12.7 - 12.35	0.147	40	0.110	0.000

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L53	12.35 - 12.125	0.139	40	0.107	0.000
L54	12.125 - 12	0.134	40	0.105	0.000
L55	12 - 11.75	0.132	40	0.103	0.000
L56	11.75 - 8.375	0.126	40	0.101	0.000
L57	8.375 - 8.125	0.065	40	0.073	0.000
L58	8.125 - 7.75	0.061	40	0.071	0.000
L59	7.75 - 7.5	0.056	40	0.068	0.000
L60	7.5 - 7.25	0.052	40	0.065	0.000
L61	7.25 - 4	0.049	40	0.063	0.000
L62	4 - 3.733	0.015	40	0.034	0.000
L63	3.733 - 3.583	0.013	40	0.033	0.000
L64	3.583 - 3	0.012	40	0.032	0.000
L65	3 - 2.75	0.009	40	0.027	0.000
L66	2.75 - 1.9	0.007	40	0.026	0.000
L67	1.9 - 1.65	0.004	40	0.018	0.000
L68	1.65 - 0	0.003	40	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
116.000	Andrew VHLP1-23	40	13.635	1.030	0.003	128060
114.000	APXVSPP18-C-A20 w/ Mount Pipe	40	13.204	1.030	0.003	128060
108.000	AIR6449 B41_T-MOBILE w/ Mount Pipe	40	11.912	1.025	0.003	36707
102.000	Miscellaneous [NA 507-1]	40	10.632	1.010	0.003	14740
98.000	DC6-48-60-18-8F	40	9.793	0.991	0.003	9437
90.000	Bridge Stiffener (84" x 9" x 1.25")	40	8.185	0.921	0.002	5866
85.000	BXA-70040-6CF-EDIN-2 w/ Mount Pipe	40	7.243	0.875	0.002	5218
80.000	KS24019-L112A	40	6.358	0.812	0.002	4053
62.000	MX08FRO665-21 w/ Mount Pipe	40	3.723	0.589	0.001	5148
60.000	Bridge Stiffener (84" x 13.5" x 1.25")	40	3.480	0.567	0.001	5760
30.000	Bridge Stiffener (84" x 13.5" x 1.25")	40	0.830	0.266	0.000	5329

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	118 - 113	57.073	4	4.188	0.013
L2	113 - 108	52.699	4	4.187	0.013
L3	108 - 103	48.334	4	4.170	0.012
L4	103 - 98	44.000	4	4.122	0.012
L5	98 - 93	39.738	4	4.030	0.012
L6	93 - 90	35.603	4	3.873	0.010
L7	90 - 85	33.214	4	3.742	0.009
L8	85 - 80	29.394	4	3.554	0.009
L9	80 - 76.5	25.805	4	3.297	0.007

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L10	76.5 - 76.25	23.469	4	3.077	0.006
L11	76.25 - 74	23.308	4	3.066	0.006
L12	74 - 73.75	21.889	4	2.961	0.006
L13	73.75 - 68.75	21.734	4	2.952	0.006
L14	68.75 - 68.5	18.738	4	2.769	0.005
L15	68.5 - 68.25	18.594	4	2.758	0.005
L16	68.25 - 64.5	18.450	4	2.742	0.005
L17	64.5 - 64.25	16.390	4	2.500	0.004
L18	64.25 - 63	16.260	4	2.490	0.004
L19	63 - 62.75	15.615	4	2.439	0.004
L20	62.75 - 60	15.488	4	2.428	0.004
L21	60 - 59.75	14.125	4	2.303	0.004
L22	59.75 - 54.75	14.005	4	2.295	0.004
L23	54.75 - 49.75	11.697	4	2.111	0.003
L24	49.75 - 49.083	9.595	4	1.900	0.003
L25	49.083 - 48.833	9.332	4	1.870	0.003
L26	48.833 - 43.833	9.234	4	1.861	0.003
L27	43.833 - 42	7.384	4	1.670	0.002
L28	42 - 41.75	6.758	4	1.594	0.002
L29	41.75 - 36.75	6.675	4	1.585	0.002
L30	36.75 - 34.5	5.117	4	1.387	0.002
L31	34.5 - 34.25	4.486	4	1.292	0.002
L32	34.25 - 34	4.419	4	1.281	0.002
L33	34 - 33.75	4.352	4	1.271	0.002
L34	33.75 - 30	4.286	4	1.259	0.001
L35	30 - 29.75	3.366	4	1.081	0.001
L36	29.75 - 28.5	3.310	4	1.070	0.001
L37	28.5 - 28.25	3.037	4	1.014	0.001
L38	28.25 - 27.942	2.984	4	1.003	0.001
L39	27.942 - 27.692	2.920	4	0.993	0.001
L40	27.692 - 23	2.868	4	0.985	0.001
L41	23 - 22.75	1.978	4	0.824	0.001
L42	22.75 - 21.5	1.935	4	0.817	0.001
L43	21.5 - 21.25	1.727	4	0.777	0.001
L44	21.25 - 21	1.686	4	0.768	0.001
L45	21 - 20.75	1.646	4	0.759	0.001
L46	20.75 - 19	1.607	4	0.750	0.001
L47	19 - 18.75	1.345	4	0.681	0.001
L48	18.75 - 18.5	1.309	4	0.673	0.001
L49	18.5 - 18.25	1.274	4	0.664	0.001
L50	18.25 - 13.25	1.240	4	0.655	0.001
L51	13.25 - 12.7	0.650	4	0.468	0.000
L52	12.7 - 12.35	0.597	4	0.447	0.000
L53	12.35 - 12.125	0.565	4	0.433	0.000
L54	12.125 - 12	0.545	4	0.424	0.000
L55	12 - 11.75	0.534	4	0.419	0.000
L56	11.75 - 8.375	0.512	4	0.411	0.000
L57	8.375 - 8.125	0.262	4	0.295	0.000
L58	8.125 - 7.75	0.247	4	0.286	0.000
L59	7.75 - 7.5	0.225	4	0.274	0.000
L60	7.5 - 7.25	0.211	4	0.265	0.000
L61	7.25 - 4	0.197	4	0.257	0.000
L62	4 - 3.733	0.062	4	0.140	0.000
L63	3.733 - 3.583	0.055	4	0.132	0.000
L64	3.583 - 3	0.051	4	0.128	0.000
L65	3 - 2.75	0.036	4	0.112	0.000
L66	2.75 - 1.9	0.030	4	0.104	0.000
L67	1.9 - 1.65	0.014	4	0.072	0.000
L68	1.65 - 0	0.011	4	0.063	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
116.000	Andrew VHLP1-23	4	55.323	4.188	0.013	33859
114.000	APXVSPP18-C-A20 w/ Mount Pipe	4	53.574	4.188	0.013	33859
108.000	AIR6449 B41_T-MOBILE w/ Mount Pipe	4	48.334	4.170	0.012	9323
102.000	Miscellaneous [NA 507-1]	4	43.140	4.107	0.012	3689
98.000	DC6-48-60-18-8F	4	39.738	4.030	0.012	2360
90.000	Bridge Stiffener (84" x 9" x 1.25")	4	33.214	3.742	0.009	1462
85.000	BXA-70040-6CF-EDIN-2 w/ Mount Pipe	4	29.394	3.554	0.009	1296
80.000	KS24019-L112A	4	25.805	3.297	0.007	1004
62.000	MX08FRO665-21 w/ Mount Pipe	4	15.109	2.393	0.004	1270
60.000	Bridge Stiffener (84" x 13.5" x 1.25")	4	14.125	2.303	0.004	1421
30.000	Bridge Stiffener (84" x 13.5" x 1.25")	4	3.366	1.081	0.001	1313

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	118 - 113 (1)	P24x0.25	5.000	0.000	0.0	18.653	-3.060	662.265	0.005
L2	113 - 108 (2)	P24x0.25	5.000	0.000	0.0	18.653	-3.451	662.265	0.005
L3	108 - 103 (3)	P24x0.25	5.000	0.000	0.0	18.653	-8.472	662.265	0.013
L4	103 - 98 (4)	P24x0.25	5.000	0.000	0.0	18.653	-9.198	662.265	0.014
L5	98 - 93 (5)	P24x0.25	5.000	0.000	0.0	18.653	-13.331	662.265	0.020
L6	93 - 90 (6)	P24x0.25	3.000	0.000	0.0	18.653	-13.655	662.265	0.021
L7	90 - 85 (7)	P24x0.375	5.000	0.000	0.0	27.833	-14.458	1052.070	0.014
L8	85 - 80 (8)	P24x0.375	5.000	0.000	0.0	27.833	-18.966	1052.070	0.018
L9	80 - 76.5 (9)	P24x0.375	3.500	0.000	0.0	27.833	-19.631	1052.070	0.019
L10	76.5 - 76.25 (10)	P24x0.5875	0.250	0.000	0.0	43.212	-19.697	1633.420	0.012
L11	76.25 - 74 (11)	P24x0.5875	2.250	0.000	0.0	43.212	-20.177	1633.420	0.012
L12	74 - 73.75 (12)	P24x0.9	0.250	0.000	0.0	65.314	-20.259	2468.860	0.008
L13	73.75 - 68.75 (13)	P24x0.9	5.000	0.000	0.0	65.314	-21.734	2468.860	0.009
L14	68.75 - 68.5 (14)	P24x0.8	0.250	0.000	0.0	58.308	-21.807	2204.040	0.010
L15	68.5 - 68.25 (15)	P24x0.575	0.250	0.000	0.0	42.315	-21.862	1599.520	0.014
L16	68.25 - 64.5 (16)	P24x0.575	3.750	0.000	0.0	42.315	-22.688	1599.520	0.014
L17	64.5 - 64.25 (17)	P24x1.05	0.250	0.000	0.0	75.704	-22.785	2861.630	0.008
L18	64.25 - 63 (18)	P24x1.05	1.250	0.000	0.0	75.704	-23.197	2861.630	0.008
L19	63 - 62.75 (19)	P24x1	0.250	0.000	0.0	72.257	-23.286	2731.300	0.009

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L20	62.75 - 60 (20)	P24x1	2.750	0.000	0.0	72.257	-27.300	2731.300	0.010
L21	60 - 59.75 (21)	P30x0.675	0.250	0.000	0.0	62.186	-27.554	2350.630	0.012
L22	59.75 - 54.75 (22)	P30x0.675	5.000	0.000	0.0	62.186	-29.130	2350.630	0.012
L23	54.75 - 49.75 (23)	P30x0.675	5.000	0.000	0.0	62.186	-30.715	2350.630	0.013
L24	49.75 - 49.083 (24)	P30x0.675	0.667	0.000	0.0	62.186	-30.933	2350.630	0.013
L25	49.083 - 48.833 (25)	P30x0.875	0.250	0.000	0.0	80.062	-31.023	3026.330	0.010
L26	48.833 - 43.833 (26)	P30x0.875	5.000	0.000	0.0	80.062	-32.735	3026.330	0.011
L27	43.833 - 42 (27)	P30x0.875	1.833	0.000	0.0	80.062	-33.360	3026.330	0.011
L28	42 - 41.75 (28)	P30x1	0.250	0.000	0.0	91.106	-33.471	3443.810	0.010
L29	41.75 - 36.75 (29)	P30x1	5.000	0.000	0.0	91.106	-35.374	3443.810	0.010
L30	36.75 - 34.5 (30)	P30x1	2.250	0.000	0.0	91.106	-36.237	3443.810	0.011
L31	34.5 - 34.25 (31)	P30x1.05	0.250	0.000	0.0	95.497	-36.351	3609.770	0.010
L32	34.25 - 34 (32)	P30x1.05	0.250	0.000	0.0	95.497	-36.456	3609.770	0.010
L33	34 - 33.75 (33)	P30x0.95	0.250	0.000	0.0	86.700	-36.553	3277.260	0.011
L34	33.75 - 30 (34)	P30x0.95	3.750	0.000	0.0	86.700	-37.994	3277.260	0.012
L35	30 - 29.75 (35)	P36x0.5875	0.250	0.000	0.0	65.360	-38.312	2470.620	0.016
L36	29.75 - 28.5 (36)	P36x0.5875	1.250	0.000	0.0	65.360	-38.744	2470.620	0.016
L37	28.5 - 28.25 (37)	P36x0.6125	0.250	0.000	0.0	68.093	-38.853	2573.940	0.015
L38	28.25 - 27.942 (38)	P36x0.8375	0.308	0.000	0.0	92.516	-38.988	3497.090	0.011
L39	27.942 - 27.692 (39)	P36x0.8375	0.250	0.000	0.0	92.516	-39.098	3497.090	0.011
L40	27.692 - 23 (40)	P36x0.8375	4.692	0.000	0.0	92.516	-41.153	3497.090	0.012
L41	23 - 22.75 (41)	P36x0.9625	0.250	0.000	0.0	105.946	-41.277	4004.750	0.010
L42	22.75 - 21.5 (42)	P36x0.9625	1.250	0.000	0.0	105.946	-41.848	4004.750	0.010
L43	21.5 - 21.25 (43)	P36x0.875	0.250	0.000	0.0	96.555	-41.964	3649.770	0.011
L44	21.25 - 21 (44)	P36x0.875	0.250	0.000	0.0	96.555	-42.071	3649.770	0.012
L45	21 - 20.75 (45)	P36x0.8	0.250	0.000	0.0	88.467	-42.173	3344.060	0.013
L46	20.75 - 19 (46)	P36x0.8	1.750	0.000	0.0	88.467	-42.880	3344.060	0.013
L47	19 - 18.75 (47)	P36x0.925	0.250	0.000	0.0	101.927	-43.012	3852.840	0.011
L48	18.75 - 18.5 (48)	P36x0.925	0.250	0.000	0.0	101.927	-43.128	3852.840	0.011
L49	18.5 - 18.25 (49)	P36x0.9	0.250	0.000	0.0	99.243	-43.242	3751.380	0.012
L50	18.25 - 13.25 (50)	P36x0.9	5.000	0.000	0.0	99.243	-45.521	3751.380	0.012
L51	13.25 - 12.7 (51)	P36x0.9	0.550	0.000	0.0	99.243	-45.778	3751.380	0.012
L52	12.7 - 12.35 (52)	P36x0.8875	0.350	0.000	0.0	97.899	-45.953	3700.600	0.012
L53	12.35 - 12.125 (53)	P36x0.8875	0.225	0.000	0.0	97.899	-46.065	3700.600	0.012
L54	12.125 - 12 (54)	P36x0.8875	0.125	0.000	0.0	97.899	-46.128	3700.600	0.012
L55	12 - 11.75 (55)	P36x1.075	0.250	0.000	0.0	117.949	-46.254	4458.480	0.010
L56	11.75 - 8.375	P36x1.075	3.375	0.000	0.0	117.949	-47.963	4458.480	0.011

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	(56)								
L57	8.375 - 8.125 (57)	P36x1.175	0.250	0.000	0.0	128.552	-48.095	4859.270	0.010
L58	8.125 - 7.75 (58)	P36x1.175	0.375	0.000	0.0	128.552	-48.281	4859.270	0.010
L59	7.75 - 7.5 (59)	P36x1.075	0.250	0.000	0.0	117.949	-48.407	4458.480	0.011
L60	7.5 - 7.25 (60)	P36x1.1	0.250	0.000	0.0	120.606	-48.537	4558.900	0.011
L61	7.25 - 4 (61)	P36x1.1	3.250	0.000	0.0	120.606	-50.224	4558.900	0.011
L62	4 - 3.733 (62)	P36x1.475	0.267	0.000	0.0	159.984	-50.377	6047.380	0.008
L63	3.733 - 3.583 (63)	P36x1.475	0.150	0.000	0.0	159.984	-50.460	6047.380	0.008
L64	3.583 - 3 (64)	P36x1.475	0.583	0.000	0.0	159.984	-50.773	6047.380	0.008
L65	3 - 2.75 (65)	P36x1.475	0.250	0.000	0.0	159.984	-50.912	6047.380	0.008
L66	2.75 - 1.9 (66)	P36x1.1	0.850	0.000	0.0	120.606	-51.303	4558.900	0.011
L67	1.9 - 1.65 (67)	P36x1.1	0.250	0.000	0.0	120.606	-51.427	4558.900	0.011
L68	1.65 - 0 (68)	P36x1.1	1.650	0.000	0.0	120.606	-52.186	4558.900	0.011

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	118 - 113 (1)	P24x0.25	7.557	396.683	0.019	0.000	396.683	0.000
L2	113 - 108 (2)	P24x0.25	25.331	396.683	0.064	0.000	396.683	0.000
L3	108 - 103 (3)	P24x0.25	64.248	396.683	0.162	0.000	396.683	0.000
L4	103 - 98 (4)	P24x0.25	105.463	396.683	0.266	0.000	396.683	0.000
L5	98 - 93 (5)	P24x0.25	181.206	396.683	0.457	0.000	396.683	0.000
L6	93 - 90 (6)	P24x0.25	222.793	396.683	0.562	0.000	396.683	0.000
L7	90 - 85 (7)	P24x0.375	295.476	623.717	0.474	0.000	623.717	0.000
L8	85 - 80 (8)	P24x0.375	399.766	623.717	0.641	0.000	623.717	0.000
L9	80 - 76.5 (9)	P24x0.375	465.755	623.717	0.747	0.000	623.717	0.000
L10	76.5 - 76.25 (10)	P24x0.5875	470.498	1014.625	0.464	0.000	1014.625	0.000
L11	76.25 - 74 (11)	P24x0.5875	513.445	1014.625	0.506	0.000	1014.625	0.000
L12	74 - 73.75 (12)	P24x0.9	518.247	1513.550	0.342	0.000	1513.550	0.000
L13	73.75 - 68.75 (13)	P24x0.9	615.752	1513.550	0.407	0.000	1513.550	0.000
L14	68.75 - 68.5 (14)	P24x0.8	620.699	1356.900	0.457	0.000	1356.900	0.000
L15	68.5 - 68.25 (15)	P24x0.575	625.653	994.092	0.629	0.000	994.092	0.000
L16	68.25 - 64.5 (16)	P24x0.575	700.726	994.092	0.705	0.000	994.092	0.000
L17	64.5 - 64.25 (17)	P24x1.05	705.784	1743.283	0.405	0.000	1743.283	0.000
L18	64.25 - 63 (18)	P24x1.05	731.180	1743.283	0.419	0.000	1743.283	0.000
L19	63 - 62.75 (19)	P24x1	736.281	1667.400	0.442	0.000	1667.400	0.000
L20	62.75 - 60 (20)	P24x1	798.372	1667.400	0.479	0.000	1667.400	0.000
L21	60 - 59.75 (21)	P30x0.675	804.451	1828.800	0.440	0.000	1828.800	0.000
L22	59.75 - 54.75 (22)	P30x0.675	927.567	1828.800	0.507	0.000	1828.800	0.000
L23	54.75 - 49.75 (23)	P30x0.675	1054.567	1828.800	0.577	0.000	1828.800	0.000
L24	49.75 - 49.083 (24)	P30x0.675	1071.758	1828.800	0.586	0.000	1828.800	0.000
L25	49.083 -	P30x0.875	1078.208	2338.733	0.461	0.000	2338.733	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 $\frac{M_{uy}}{\phi M_{ny}}$
	48.833 (25)							
L26	48.833 - 43.833 (26)	P30x0.875	1208.800	2338.733	0.517	0.000	2338.733	0.000
L27	43.833 - 42 (27)	P30x0.875	1257.367	2338.733	0.538	0.000	2338.733	0.000
L28	42 - 41.75 (28)	P30x1	1264.025	2650.200	0.477	0.000	2650.200	0.000
L29	41.75 - 36.75 (29)	P30x1	1398.550	2650.200	0.528	0.000	2650.200	0.000
L30	36.75 - 34.5 (30)	P30x1	1459.975	2650.200	0.551	0.000	2650.200	0.000
L31	34.5 - 34.25 (31)	P30x1.05	1466.825	2773.242	0.529	0.000	2773.242	0.000
L32	34.25 - 34 (32)	P30x1.05	1473.692	2773.242	0.531	0.000	2773.242	0.000
L33	34 - 33.75 (33)	P30x0.95	1480.567	2526.275	0.586	0.000	2526.275	0.000
L34	33.75 - 30 (34)	P30x0.95	1584.358	2526.275	0.627	0.000	2526.275	0.000
L35	30 - 29.75 (35)	P36x0.5875	1591.550	2211.808	0.720	0.000	2211.808	0.000
L36	29.75 - 28.5 (36)	P36x0.5875	1627.592	2211.808	0.736	0.000	2211.808	0.000
L37	28.5 - 28.25 (37)	P36x0.6125	1634.817	2319.617	0.705	0.000	2319.617	0.000
L38	28.25 - 27.942 (38)	P36x0.8375	1643.733	3262.400	0.504	0.000	3262.400	0.000
L39	27.942 - 27.692 (39)	P36x0.8375	1650.975	3262.400	0.506	0.000	3262.400	0.000
L40	27.692 - 23 (40)	P36x0.8375	1788.333	3262.400	0.548	0.000	3262.400	0.000
L41	23 - 22.75 (41)	P36x0.9625	1795.725	3722.950	0.482	0.000	3722.950	0.000
L42	22.75 - 21.5 (42)	P36x0.9625	1832.792	3722.950	0.492	0.000	3722.950	0.000
L43	21.5 - 21.25 (43)	P36x0.875	1840.233	3401.267	0.541	0.000	3401.267	0.000
L44	21.25 - 21 (44)	P36x0.875	1847.675	3401.267	0.543	0.000	3401.267	0.000
L45	21 - 20.75 (45)	P36x0.8	1855.125	3122.917	0.594	0.000	3122.917	0.000
L46	20.75 - 19 (46)	P36x0.8	1907.483	3122.917	0.611	0.000	3122.917	0.000
L47	19 - 18.75 (47)	P36x0.925	1914.983	3585.492	0.534	0.000	3585.492	0.000
L48	18.75 - 18.5 (48)	P36x0.925	1922.500	3585.492	0.536	0.000	3585.492	0.000
L49	18.5 - 18.25 (49)	P36x0.9	1930.017	3493.517	0.552	0.000	3493.517	0.000
L50	18.25 - 13.25 (50)	P36x0.9	2081.742	3493.517	0.596	0.000	3493.517	0.000
L51	13.25 - 12.7 (51)	P36x0.9	2098.575	3493.517	0.601	0.000	3493.517	0.000
L52	12.7 - 12.35 (52)	P36x0.8875	2109.308	3447.425	0.612	0.000	3447.425	0.000
L53	12.35 - 12.125 (53)	P36x0.8875	2116.208	3447.425	0.614	0.000	3447.425	0.000
L54	12.125 - 12 (54)	P36x0.8875	2120.050	3447.425	0.615	0.000	3447.425	0.000
L55	12 - 11.75 (55)	P36x1.075	2127.725	4131.700	0.515	0.000	4131.700	0.000
L56	11.75 - 8.375 (56)	P36x1.075	2231.992	4131.700	0.540	0.000	4131.700	0.000
L57	8.375 - 8.125 (57)	P36x1.175	2239.758	4490.508	0.499	0.000	4490.508	0.000
L58	8.125 - 7.75 (58)	P36x1.175	2251.417	4490.508	0.501	0.000	4490.508	0.000
L59	7.75 - 7.5 (59)	P36x1.075	2259.200	4131.700	0.547	0.000	4131.700	0.000
L60	7.5 - 7.25 (60)	P36x1.1	2266.992	4221.800	0.537	0.000	4221.800	0.000
L61	7.25 - 4 (61)	P36x1.1	2368.750	4221.800	0.561	0.000	4221.800	0.000
L62	4 - 3.733 (62)	P36x1.475	2377.150	5541.583	0.429	0.000	5541.583	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 $\frac{M_{uy}}{\phi M_{ny}}$
L63	3.733 - 3.583 (63)	P36x1.475	2381.875	5541.583	0.430	0.000	5541.583	0.000
L64	3.583 - 3 (64)	P36x1.475	2400.258	5541.583	0.433	0.000	5541.583	0.000
L65	3 - 2.75 (65)	P36x1.475	2408.150	5541.583	0.435	0.000	5541.583	0.000
L66	2.75 - 1.9 (66)	P36x1.1	2435.025	4221.800	0.577	0.000	4221.800	0.000
L67	1.9 - 1.65 (67)	P36x1.1	2442.942	4221.800	0.579	0.000	4221.800	0.000
L68	1.65 - 0 (68)	P36x1.1	2495.317	4221.800	0.591	0.000	4221.800	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	118 - 113 (1)	P24x0.25	3.407	201.861	0.017	0.089	324.229	0.000
L2	113 - 108 (2)	P24x0.25	3.702	201.861	0.018	0.089	324.229	0.000
L3	108 - 103 (3)	P24x0.25	7.928	201.861	0.039	0.089	324.229	0.000
L4	103 - 98 (4)	P24x0.25	8.427	201.861	0.042	0.089	324.229	0.000
L5	98 - 93 (5)	P24x0.25	13.795	201.861	0.068	0.905	324.229	0.003
L6	93 - 90 (6)	P24x0.25	13.939	201.861	0.069	0.905	324.229	0.003
L7	90 - 85 (7)	P24x0.375	14.666	315.621	0.046	0.904	655.568	0.001
L8	85 - 80 (8)	P24x0.375	18.724	315.621	0.059	1.340	655.568	0.002
L9	80 - 76.5 (9)	P24x0.375	18.968	315.621	0.060	1.513	655.568	0.002
L10	76.5 - 76.25 (10)	P24x0.5875	18.969	490.025	0.039	1.513	1008.667	0.002
L11	76.25 - 74 (11)	P24x0.5875	19.193	490.025	0.039	1.513	1008.667	0.002
L12	74 - 73.75 (12)	P24x0.9	19.215	740.658	0.026	1.513	1504.208	0.001
L13	73.75 - 68.75 (13)	P24x0.9	19.770	740.658	0.027	1.513	1504.208	0.001
L14	68.75 - 68.5 (14)	P24x0.8	19.793	661.212	0.030	1.513	1348.675	0.001
L15	68.5 - 68.25 (15)	P24x0.575	19.819	479.855	0.041	1.513	988.258	0.002
L16	68.25 - 64.5 (16)	P24x0.575	20.222	479.855	0.042	1.593	988.258	0.002
L17	64.5 - 64.25 (17)	P24x1.05	20.236	858.489	0.024	1.593	1732.200	0.001
L18	64.25 - 63 (18)	P24x1.05	20.383	858.489	0.024	1.593	1732.200	0.001
L19	63 - 62.75 (19)	P24x1	20.403	819.390	0.025	1.593	1656.908	0.001
L20	62.75 - 60 (20)	P24x1	23.442	819.390	0.029	1.749	1656.908	0.001
L21	60 - 59.75 (21)	P30x0.675	24.313	705.188	0.034	1.749	1818.117	0.001
L22	59.75 - 54.75 (22)	P30x0.675	24.901	705.188	0.035	1.749	1818.117	0.001
L23	54.75 - 49.75 (23)	P30x0.675	25.744	705.188	0.037	0.149	1818.117	0.000
L24	49.75 - 49.083 (24)	P30x0.675	25.814	705.188	0.037	0.149	1818.117	0.000
L25	49.083 - 48.833 (25)	P30x0.875	25.839	907.898	0.028	0.149	2324.783	0.000
L26	48.833 - 43.833 (26)	P30x0.875	26.407	907.898	0.029	0.149	2324.783	0.000
L27	43.833 - 42 (27)	P30x0.875	26.619	907.898	0.029	0.149	2324.783	0.000
L28	42 - 41.75 (28)	P30x1	26.629	1033.140	0.026	0.149	2634.142	0.000
L29	41.75 - 36.75 (29)	P30x1	27.191	1033.140	0.026	0.149	2634.142	0.000
L30	36.75 - 34.5	P30x1	27.433	1033.140	0.027	0.149	2634.142	0.000

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 $\frac{T_u}{\phi T_n}$
	(30)							
L31	34.5 - 34.25 (31)	P30x1.05	27.449	1082.930	0.025	0.149	2756.317	0.000
L32	34.25 - 34 (32)	P30x1.05	27.476	1082.930	0.025	0.149	2756.317	0.000
L33	34 - 33.75 (33)	P30x0.95	27.502	983.179	0.028	0.149	2511.067	0.000
L34	33.75 - 30 (34)	P30x0.95	27.875	983.179	0.028	0.149	2511.067	0.000
L35	30 - 29.75 (35)	P36x0.5875	28.769	741.186	0.039	0.149	2307.617	0.000
L36	29.75 - 28.5 (36)	P36x0.5875	28.919	741.186	0.039	0.149	2307.617	0.000
L37	28.5 - 28.25 (37)	P36x0.6125	28.932	772.181	0.037	0.149	2402.417	0.000
L38	28.25 - 27.942 (38)	P36x0.8375	28.968	1049.130	0.028	0.149	3243.300	0.000
L39	27.942 - 27.692 (39)	P36x0.8375	28.997	1049.130	0.028	0.149	3243.300	0.000
L40	27.692 - 23 (40)	P36x0.8375	29.565	1049.130	0.028	0.149	3243.300	0.000
L41	23 - 22.75 (41)	P36x0.9625	29.584	1201.430	0.025	0.149	3700.917	0.000
L42	22.75 - 21.5 (42)	P36x0.9625	29.746	1201.430	0.025	0.149	3700.917	0.000
L43	21.5 - 21.25 (43)	P36x0.875	29.764	1094.930	0.027	0.149	3381.300	0.000
L44	21.25 - 21 (44)	P36x0.875	29.793	1094.930	0.027	0.149	3381.300	0.000
L45	21 - 20.75 (45)	P36x0.8	29.821	1003.220	0.030	0.149	3104.683	0.000
L46	20.75 - 19 (46)	P36x0.8	30.038	1003.220	0.030	0.149	3104.683	0.000
L47	19 - 18.75 (47)	P36x0.925	30.043	1155.850	0.026	0.149	3564.342	0.000
L48	18.75 - 18.5 (48)	P36x0.925	30.071	1155.850	0.026	0.149	3564.342	0.000
L49	18.5 - 18.25 (49)	P36x0.9	30.098	1125.410	0.027	0.149	3472.958	0.000
L50	18.25 - 13.25 (50)	P36x0.9	30.603	1125.410	0.027	0.149	3472.958	0.000
L51	13.25 - 12.7 (51)	P36x0.9	30.648	1125.410	0.027	0.149	3472.958	0.000
L52	12.7 - 12.35 (52)	P36x0.8875	30.678	1110.180	0.028	0.149	3427.158	0.000
L53	12.35 - 12.125 (53)	P36x0.8875	30.697	1110.180	0.028	0.149	3427.158	0.000
L54	12.125 - 12 (54)	P36x0.8875	30.707	1110.180	0.028	0.149	3427.158	0.000
L55	12 - 11.75 (55)	P36x1.075	30.733	1337.540	0.023	0.149	4106.992	0.000
L56	11.75 - 8.375 (56)	P36x1.075	31.070	1337.540	0.023	0.149	4106.992	0.000
L57	8.375 - 8.125 (57)	P36x1.175	31.081	1457.780	0.021	0.149	4463.367	0.000
L58	8.125 - 7.75 (58)	P36x1.175	31.118	1457.780	0.021	0.149	4463.367	0.000
L59	7.75 - 7.5 (59)	P36x1.075	31.140	1337.540	0.023	0.149	4106.992	0.000
L60	7.5 - 7.25 (60)	P36x1.1	31.164	1367.670	0.023	0.149	4196.492	0.000
L61	7.25 - 4 (61)	P36x1.1	31.476	1367.670	0.023	0.149	4196.492	0.000
L62	4 - 3.733 (62)	P36x1.475	31.488	1814.210	0.017	0.149	5506.833	0.000
L63	3.733 - 3.583 (63)	P36x1.475	31.502	1814.210	0.017	0.149	5506.833	0.000
L64	3.583 - 3 (64)	P36x1.475	31.564	1814.210	0.017	0.149	5506.833	0.000
L65	3 - 2.75 (65)	P36x1.475	31.584	1814.210	0.017	0.149	5506.833	0.000
L66	2.75 - 1.9 (66)	P36x1.1	31.670	1367.670	0.023	0.149	4196.492	0.000
L67	1.9 - 1.65 (67)	P36x1.1	31.681	1367.670	0.023	0.149	4196.492	0.000
L68	1.65 - 0 (68)	P36x1.1	31.836	1367.670	0.023	0.149	4196.492	0.000

Pole Interaction Design Data

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
L1	118 - 113 (1)	0.005	0.019	0.000	0.017	0.000	0.024 ✔	1.050	4.8.2 ✔
L2	113 - 108 (2)	0.005	0.064	0.000	0.018	0.000	0.069 ✔	1.050	4.8.2 ✔
L3	108 - 103 (3)	0.013	0.162	0.000	0.039	0.000	0.176 ✔	1.050	4.8.2 ✔
L4	103 - 98 (4)	0.014	0.266	0.000	0.042	0.000	0.282 ✔	1.050	4.8.2 ✔
L5	98 - 93 (5)	0.020	0.457	0.000	0.068	0.003	0.482 ✔	1.050	4.8.2 ✔
L6	93 - 90 (6)	0.021	0.562	0.000	0.069	0.003	0.587 ✔	1.050	4.8.2 ✔
L7	90 - 85 (7)	0.014	0.474	0.000	0.046	0.001	0.490 ✔	1.050	4.8.2 ✔
L8	85 - 80 (8)	0.018	0.641	0.000	0.059	0.002	0.663 ✔	1.050	4.8.2 ✔
L9	80 - 76.5 (9)	0.019	0.747	0.000	0.060	0.002	0.769 ✔	1.050	4.8.2 ✔
L10	76.5 - 76.25 (10)	0.012	0.464	0.000	0.039	0.002	0.477 ✔	1.050	4.8.2 ✔
L11	76.25 - 74 (11)	0.012	0.506	0.000	0.039	0.002	0.520 ✔	1.050	4.8.2 ✔
L12	74 - 73.75 (12)	0.008	0.342	0.000	0.026	0.001	0.351 ✔	1.050	4.8.2 ✔
L13	73.75 - 68.75 (13)	0.009	0.407	0.000	0.027	0.001	0.416 ✔	1.050	4.8.2 ✔
L14	68.75 - 68.5 (14)	0.010	0.457	0.000	0.030	0.001	0.468 ✔	1.050	4.8.2 ✔
L15	68.5 - 68.25 (15)	0.014	0.629	0.000	0.041	0.002	0.645 ✔	1.050	4.8.2 ✔
L16	68.25 - 64.5 (16)	0.014	0.705	0.000	0.042	0.002	0.721 ✔	1.050	4.8.2 ✔
L17	64.5 - 64.25 (17)	0.008	0.405	0.000	0.024	0.001	0.413 ✔	1.050	4.8.2 ✔
L18	64.25 - 63 (18)	0.008	0.419	0.000	0.024	0.001	0.428 ✔	1.050	4.8.2 ✔
L19	63 - 62.75 (19)	0.009	0.442	0.000	0.025	0.001	0.451 ✔	1.050	4.8.2 ✔
L20	62.75 - 60 (20)	0.010	0.479	0.000	0.029	0.001	0.490 ✔	1.050	4.8.2 ✔
L21	60 - 59.75 (21)	0.012	0.440	0.000	0.034	0.001	0.453 ✔	1.050	4.8.2 ✔
L22	59.75 - 54.75 (22)	0.012	0.507	0.000	0.035	0.001	0.521 ✔	1.050	4.8.2 ✔
L23	54.75 - 49.75 (23)	0.013	0.577	0.000	0.037	0.000	0.591 ✔	1.050	4.8.2 ✔
L24	49.75 - 49.083 (24)	0.013	0.586	0.000	0.037	0.000	0.601	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
L25	49.083 - 48.833 (25)	0.010	0.461	0.000	0.028	0.000	0.472	1.050	4.8.2
L26	48.833 - 43.833 (26)	0.011	0.517	0.000	0.029	0.000	0.529	1.050	4.8.2
L27	43.833 - 42 (27)	0.011	0.538	0.000	0.029	0.000	0.550	1.050	4.8.2
L28	42 - 41.75 (28)	0.010	0.477	0.000	0.026	0.000	0.487	1.050	4.8.2
L29	41.75 - 36.75 (29)	0.010	0.528	0.000	0.026	0.000	0.539	1.050	4.8.2
L30	36.75 - 34.5 (30)	0.011	0.551	0.000	0.027	0.000	0.562	1.050	4.8.2
L31	34.5 - 34.25 (31)	0.010	0.529	0.000	0.025	0.000	0.540	1.050	4.8.2
L32	34.25 - 34 (32)	0.010	0.531	0.000	0.025	0.000	0.542	1.050	4.8.2
L33	34 - 33.75 (33)	0.011	0.586	0.000	0.028	0.000	0.598	1.050	4.8.2
L34	33.75 - 30 (34)	0.012	0.627	0.000	0.028	0.000	0.640	1.050	4.8.2
L35	30 - 29.75 (35)	0.016	0.720	0.000	0.039	0.000	0.737	1.050	4.8.2
L36	29.75 - 28.5 (36)	0.016	0.736	0.000	0.039	0.000	0.753	1.050	4.8.2
L37	28.5 - 28.25 (37)	0.015	0.705	0.000	0.037	0.000	0.721	1.050	4.8.2
L38	28.25 - 27.942 (38)	0.011	0.504	0.000	0.028	0.000	0.516	1.050	4.8.2
L39	27.942 - 27.692 (39)	0.011	0.506	0.000	0.028	0.000	0.518	1.050	4.8.2
L40	27.692 - 23 (40)	0.012	0.548	0.000	0.028	0.000	0.561	1.050	4.8.2
L41	23 - 22.75 (41)	0.010	0.482	0.000	0.025	0.000	0.493	1.050	4.8.2
L42	22.75 - 21.5 (42)	0.010	0.492	0.000	0.025	0.000	0.503	1.050	4.8.2
L43	21.5 - 21.25 (43)	0.011	0.541	0.000	0.027	0.000	0.553	1.050	4.8.2
L44	21.25 - 21 (44)	0.012	0.543	0.000	0.027	0.000	0.556	1.050	4.8.2
L45	21 - 20.75 (45)	0.013	0.594	0.000	0.030	0.000	0.608	1.050	4.8.2
L46	20.75 - 19 (46)	0.013	0.611	0.000	0.030	0.000	0.625	1.050	4.8.2
L47	19 - 18.75 (47)	0.011	0.534	0.000	0.026	0.000	0.546	1.050	4.8.2
L48	18.75 - 18.5 (48)	0.011	0.536	0.000	0.026	0.000	0.548	1.050	4.8.2
L49	18.5 - 18.25 (49)	0.012	0.552	0.000	0.027	0.000	0.565	1.050	4.8.2
L50	18.25 - 13.25	0.012	0.596	0.000	0.027	0.000	0.609	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
	(50)						✔		
L51	13.25 - 12.7 (51)	0.012	0.601	0.000	0.027	0.000	0.614 ✔	1.050	4.8.2 ✔
L52	12.7 - 12.35 (52)	0.012	0.612	0.000	0.028	0.000	0.625 ✔	1.050	4.8.2 ✔
L53	12.35 - 12.125 (53)	0.012	0.614	0.000	0.028	0.000	0.627 ✔	1.050	4.8.2 ✔
L54	12.125 - 12 (54)	0.012	0.615	0.000	0.028	0.000	0.628 ✔	1.050	4.8.2 ✔
L55	12 - 11.75 (55)	0.010	0.515	0.000	0.023	0.000	0.526 ✔	1.050	4.8.2 ✔
L56	11.75 - 8.375 (56)	0.011	0.540	0.000	0.023	0.000	0.552 ✔	1.050	4.8.2 ✔
L57	8.375 - 8.125 (57)	0.010	0.499	0.000	0.021	0.000	0.509 ✔	1.050	4.8.2 ✔
L58	8.125 - 7.75 (58)	0.010	0.501	0.000	0.021	0.000	0.512 ✔	1.050	4.8.2 ✔
L59	7.75 - 7.5 (59)	0.011	0.547	0.000	0.023	0.000	0.558 ✔	1.050	4.8.2 ✔
L60	7.5 - 7.25 (60)	0.011	0.537	0.000	0.023	0.000	0.548 ✔	1.050	4.8.2 ✔
L61	7.25 - 4 (61)	0.011	0.561	0.000	0.023	0.000	0.573 ✔	1.050	4.8.2 ✔
L62	4 - 3.733 (62)	0.008	0.429	0.000	0.017	0.000	0.438 ✔	1.050	4.8.2 ✔
L63	3.733 - 3.583 (63)	0.008	0.430	0.000	0.017	0.000	0.438 ✔	1.050	4.8.2 ✔
L64	3.583 - 3 (64)	0.008	0.433	0.000	0.017	0.000	0.442 ✔	1.050	4.8.2 ✔
L65	3 - 2.75 (65)	0.008	0.435	0.000	0.017	0.000	0.443 ✔	1.050	4.8.2 ✔
L66	2.75 - 1.9 (66)	0.011	0.577	0.000	0.023	0.000	0.589 ✔	1.050	4.8.2 ✔
L67	1.9 - 1.65 (67)	0.011	0.579	0.000	0.023	0.000	0.590 ✔	1.050	4.8.2 ✔
L68	1.65 - 0 (68)	0.011	0.591	0.000	0.023	0.000	0.603 ✔	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	118 - 113	Pole	P24x0.25	1	-3.060	695.378	2.3	Pass
L2	113 - 108	Pole	P24x0.25	2	-3.451	695.378	6.6	Pass
L3	108 - 103	Pole	P24x0.25	3	-8.472	695.378	16.8	Pass
L4	103 - 98	Pole	P24x0.25	4	-9.198	695.378	26.8	Pass
L5	98 - 93	Pole	P24x0.25	5	-13.331	695.378	45.9	Pass
L6	93 - 90	Pole	P24x0.25	6	-13.655	695.378	55.9	Pass

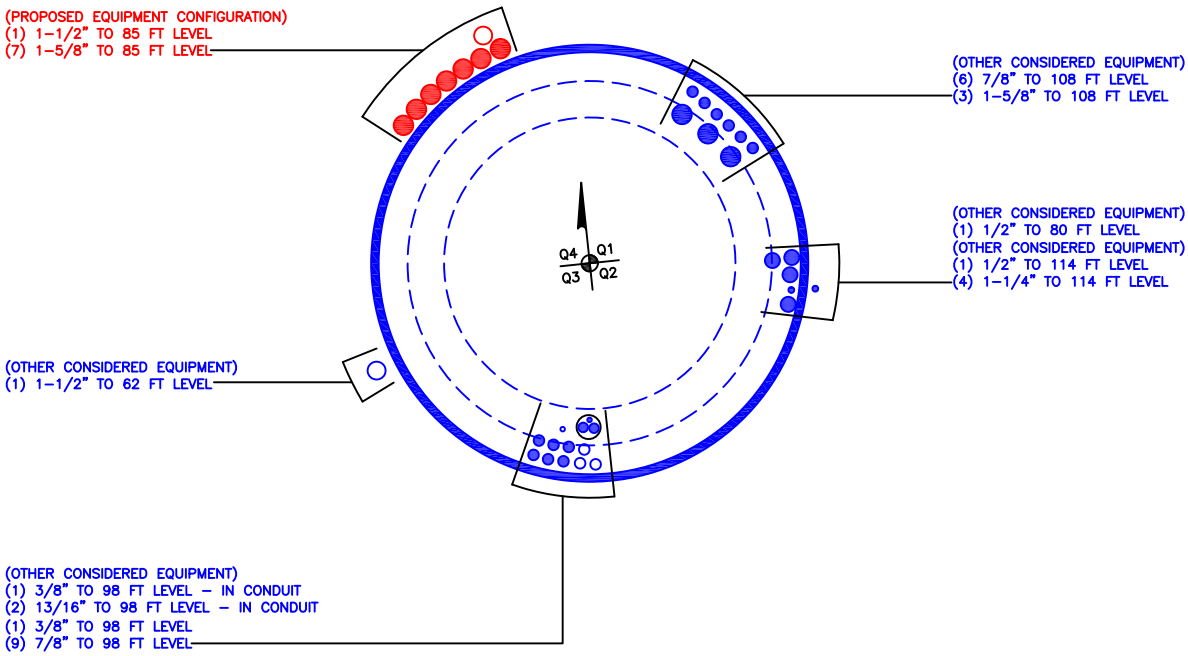
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L7	90 - 85	Pole	P24x0.375	7	-14.458	1104.673	46.6	Pass
L8	85 - 80	Pole	P24x0.375	8	-18.966	1104.673	63.1	Pass
L9	80 - 76.5	Pole	P24x0.375	9	-19.631	1104.673	73.3	Pass
L10	76.5 - 76.25	Pole	P24x0.5875	10	-19.697	1715.091	45.5	Pass
L11	76.25 - 74	Pole	P24x0.5875	11	-20.177	1715.091	49.5	Pass
L12	74 - 73.75	Pole	P24x0.9	12	-20.259	2592.303	33.5	Pass
L13	73.75 - 68.75	Pole	P24x0.9	13	-21.734	2592.303	39.7	Pass
L14	68.75 - 68.5	Pole	P24x0.8	14	-21.807	2314.242	44.6	Pass
L15	68.5 - 68.25	Pole	P24x0.575	15	-21.862	1679.496	61.4	Pass
L16	68.25 - 64.5	Pole	P24x0.575	16	-22.688	1679.496	68.7	Pass
L17	64.5 - 64.25	Pole	P24x1.05	17	-22.785	3004.711	39.4	Pass
L18	64.25 - 63	Pole	P24x1.05	18	-23.197	3004.711	40.8	Pass
L19	63 - 62.75	Pole	P24x1	19	-23.286	2867.865	42.9	Pass
L20	62.75 - 60	Pole	P24x1	20	-27.300	2867.865	46.6	Pass
L21	60 - 59.75	Pole	P30x0.675	21	-27.554	2468.161	43.1	Pass
L22	59.75 - 54.75	Pole	P30x0.675	22	-29.130	2468.161	49.6	Pass
L23	54.75 - 49.75	Pole	P30x0.675	23	-30.715	2468.161	56.3	Pass
L24	49.75 - 49.083	Pole	P30x0.675	24	-30.933	2468.161	57.2	Pass
L25	49.083 - 48.833	Pole	P30x0.875	25	-31.023	3177.646	45.0	Pass
L26	48.833 - 43.833	Pole	P30x0.875	26	-32.735	3177.646	50.3	Pass
L27	43.833 - 42	Pole	P30x0.875	27	-33.360	3177.646	52.3	Pass
L28	42 - 41.75	Pole	P30x1	28	-33.471	3616.000	46.4	Pass
L29	41.75 - 36.75	Pole	P30x1	29	-35.374	3616.000	51.3	Pass
L30	36.75 - 34.5	Pole	P30x1	30	-36.237	3616.000	53.5	Pass
L31	34.5 - 34.25	Pole	P30x1.05	31	-36.351	3790.258	51.4	Pass
L32	34.25 - 34	Pole	P30x1.05	32	-36.456	3790.258	51.6	Pass
L33	34 - 33.75	Pole	P30x0.95	33	-36.553	3441.123	57.0	Pass
L34	33.75 - 30	Pole	P30x0.95	34	-37.994	3441.123	60.9	Pass
L35	30 - 29.75	Pole	P36x0.5875	35	-38.312	2594.151	70.2	Pass
L36	29.75 - 28.5	Pole	P36x0.5875	36	-38.744	2594.151	71.7	Pass
L37	28.5 - 28.25	Pole	P36x0.6125	37	-38.853	2702.637	68.7	Pass
L38	28.25 - 27.942	Pole	P36x0.8375	38	-38.988	3671.944	49.1	Pass
L39	27.942 - 27.692	Pole	P36x0.8375	39	-39.098	3671.944	49.3	Pass
L40	27.692 - 23	Pole	P36x0.8375	40	-41.153	3671.944	53.4	Pass
L41	23 - 22.75	Pole	P36x0.9625	41	-41.277	4204.987	47.0	Pass
L42	22.75 - 21.5	Pole	P36x0.9625	42	-41.848	4204.987	47.9	Pass
L43	21.5 - 21.25	Pole	P36x0.875	43	-41.964	3832.258	52.7	Pass
L44	21.25 - 21	Pole	P36x0.875	44	-42.071	3832.258	52.9	Pass
L45	21 - 20.75	Pole	P36x0.8	45	-42.173	3511.263	57.9	Pass
L46	20.75 - 19	Pole	P36x0.8	46	-42.880	3511.263	59.5	Pass
L47	19 - 18.75	Pole	P36x0.925	47	-43.012	4045.482	52.0	Pass
L48	18.75 - 18.5	Pole	P36x0.925	48	-43.128	4045.482	52.2	Pass
L49	18.5 - 18.25	Pole	P36x0.9	49	-43.242	3938.949	53.8	Pass
L50	18.25 - 13.25	Pole	P36x0.9	50	-45.521	3938.949	58.0	Pass
L51	13.25 - 12.7	Pole	P36x0.9	51	-45.778	3938.949	58.4	Pass
L52	12.7 - 12.35	Pole	P36x0.8875	52	-45.953	3885.630	59.5	Pass
L53	12.35 - 12.125	Pole	P36x0.8875	53	-46.065	3885.630	59.7	Pass
L54	12.125 - 12	Pole	P36x0.8875	54	-46.128	3885.630	59.8	Pass
L55	12 - 11.75	Pole	P36x1.075	55	-46.254	4681.404	50.1	Pass
L56	11.75 - 8.375	Pole	P36x1.075	56	-47.963	4681.404	52.5	Pass
L57	8.375 - 8.125	Pole	P36x1.175	57	-48.095	5102.233	48.5	Pass
L58	8.125 - 7.75	Pole	P36x1.175	58	-48.281	5102.233	48.7	Pass
L59	7.75 - 7.5	Pole	P36x1.075	59	-48.407	4681.404	53.2	Pass
L60	7.5 - 7.25	Pole	P36x1.1	60	-48.537	4786.845	52.2	Pass
L61	7.25 - 4	Pole	P36x1.1	61	-50.224	4786.845	54.5	Pass
L62	4 - 3.733	Pole	P36x1.475	62	-50.377	6349.749	41.7	Pass
L63	3.733 - 3.583	Pole	P36x1.475	63	-50.460	6349.749	41.8	Pass
L64	3.583 - 3	Pole	P36x1.475	64	-50.773	6349.749	42.1	Pass
L65	3 - 2.75	Pole	P36x1.475	65	-50.912	6349.749	42.2	Pass
L66	2.75 - 1.9	Pole	P36x1.1	66	-51.303	4786.845	56.1	Pass
L67	1.9 - 1.65	Pole	P36x1.1	67	-51.427	4786.845	56.2	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L68	1.65 - 0	Pole	P36x1.1	68	-52.186	4786.845	57.4	Pass
						Summary		
						Pole (L9)	73.3	Pass
						RATING =	**73.3**	**Pass**

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

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 876331

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 876331

Work Order: 2113029

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	118	28		0	24	24	0.25		A572-42
2	90	30		0	24.00	24	0.375		A572-42
3	60	30		0	30.00	30	0.375		A572-42
4	30	30		0	36.00	36	0.375		A572-42

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	3.833	30	plate	Bent Plate 10"x1"	3	0						135					225						
2	30	60	plate	Bent Plate 10"x1"	3	0						135					225						
3	60	74	plate	Bent Plate 9"x0.75"	3	0						135					225						
4	2	19	plate	MS-450 (1.1875")	2				65											295			
5	2	7.5	plate	MS-450 (1.1875")	1										200								
6	7.5	12.7	plate	S-450 (1.1875") Rotate	1									180									
7	12.7	19	plate	MS-450 (1.1875")	1										200								
8	30	34.5	plate	MS-400 (1.1875")	3			45						180						295			
9	60	64.5	plate	MS-400 (1.1875")	3				65					180						295			
10	1.92	23	plate	WCFP -060100	1		30																
11	3	23	plate	CCI-AFP-060100	1																310		
12	34	42	plate	CCI-SFP-040075	3				75							205					320		
13	60	63	plate	FB 3.75"x1" (1.1875)	3					90					195						320		
14	63	68.75	plate	CCI-SFP-045100	3					90					195						320		
15	0	4	plate	TS 8"x1.25" - Mod 3	4		34					124				214					304		
16	21	28.042	plate	CCI-SFP-045100	1					90													
17	21.5	28.5	plate	CCI-SFP-045100	2										200							330	
18	30	49.083	plate	CCI-SFP-040075	2					100									270				
19	8.375	12.375	plate	WAFB 7"x1.25"	1								160										
20	18.5	28	plate	CCI-SFP-045100	1													253					
21	68.5	76.5	plate	CCI-SFP-045100	3		40						160						275				
22	0	12	plate	TS1 11 x 1.25 - Mod 6	1														282				
23	0	7.75	plate	TS2 10"x1.25"	1									169									
24	18.5	28	plate	CFP 4 x1	1			50															
25																							

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	10	1	10	0.3125	PC 8.8 - M20 (100)	54	PC 8.8 - M20 (100)	54.000	24.000	8.750	1.1875	A572-65
2	10	1	10	0.3125	PC 8.8 - M20 (100)	54	PC 8.8 - M20 (100)	54.000	24.000	8.750	1.1875	A572-65
3	9	0.75	6.75	0.1875	PC 8.8 - M20 (100)	36	PC 8.8 - M20 (100)	36.000	24.000	5.813	1.1875	A572-65
4	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.625	3.250	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	20.625	3.250	1.1875	A572-65
6	1	4.5	4.5	2.25	Welded	n/a	Welded	n/a	0.000	4.500	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	20.625	3.250	1.1875	A572-65
8	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.875	2.063	1.1875	A572-65
9	4	0.75	3	0.375	PC 8.8 - M20 (100)	12	PC 8.8 - M20 (100)	12.000	16.875	2.063	1.1875	A572-65
10	6	1	6	0.5	Welded	n/a	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
11	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
12	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
13	3.75	1	3.75	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	2.500	1.1875	A572-65
14	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
15	1.25	7.25	9.0625	4.375	Welded	n/a	Welded	n/a	0.750	9.063	0.0000	A572-65
16	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
17	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
18	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
19	1.25	7	8.75	3.5	Welded	n/a	Welded	n/a	1.000	8.750	0.0000	A572-65
20	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
21	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
22	1.25	8	10	5.5	Welded	n/a	Welded	n/a	0.750	10.000	0.0000	A572-65
23	1.25	9.25	11.5625	5.375	Welded	n/a	Welded	n/a	0.750	11.563	0.0000	A572-65
24	4	1	4	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	2.750	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)
Bent Plate 10"x1"	Top	18	N	3	3	70	None	-	-	-	-	-	-	-
	Bottom	18	N	3	3	70	None	-	-	-	-	-	-	-
Bent Plate 9"x0.75"	Top	12	N	3	3	70	None	-	-	-	-	-	-	-
	Bottom	12	N	3	3	70	None	-	-	-	-	-	-	-
MS-450 (1.1875") Rotated	Top	-	-	-	-	70	None	-	-	-	-	30	0.188	-
	Bottom	-	-	-	-	70	None	-	-	-	-	30	0.188	-
WAFB 7"x1.25"	Top	-	-	-	-	70	None	-	-	-	-	54	0.375	-
	Bottom	-	-	-	-	70	None	-	-	-	-	54	0.375	-
FB 3.75"x1" (1.1875)	Top	6	N	3	3	0	-	-	-	-	-	-	-	-
	Bottom	6	N	3	3	0	-	-	-	-	-	-	-	-
TS 8"x1.25" - Mod 3	Top	-	-	-	-	70	None	-	-	-	-	59.25	0.375	-
	Bottom	-	-	-	-	70	CJP Groove	14.5	0.625	45	0.625	-	-	-
TS2 10"x1.25"	Top	-	-	-	-	70	None	-	-	-	-	104.25	0.375	-
	Bottom	-	-	-	-	70	CJP Groove	18.5	0.625	45	0.625	-	-	-
WCFP -060100	Top	10	N	3	3	0	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	60	0.375	-
CFP 4 x1	Top	6	N	3	3	0	-	-	-	-	-	-	-	-
	Bottom	6	N	3	3	0	-	-	-	-	-	-	-	-
TS1 11 x 1.25 - Mod 6	Top	-	-	-	-	70	None	-	-	-	-	155.25	0.375	-
	Bottom	-	-	-	-	70	CJP Groove	20.5	0.625	45	0.625	-	-	-

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	118 - 113	5		0	24.000	24.000	0.25	A572-42	1.000
2	113 - 108	5		0	24.000	24.000	0.25	A572-42	1.000
3	108 - 103	5		0	24.000	24.000	0.25	A572-42	1.000
4	103 - 98	5		0	24.000	24.000	0.25	A572-42	1.000
5	98 - 93	5		0	24.000	24.000	0.25	A572-42	1.000
6	93 - 90	3	0	0	24.000	24.000	0.25	A572-42	1.000
7	90 - 85	5		0	24.000	24.000	0.375	A572-42	1.000
8	85 - 80	5		0	24.000	24.000	0.375	A572-42	1.000
9	80 - 76.5	3.5		0	24.000	24.000	0.375	A572-42	1.000
10	76.5 - 76.25	0.25		0	24.000	24.000	0.5875	A572-42	0.957
11	76.25 - 74	2.25		0	24.000	24.000	0.5875	A572-42	0.957
12	74 - 73.75	0.25		0	24.000	24.000	0.9	A572-42	0.943
13	73.75 - 68.75	5		0	24.000	24.000	0.9	A572-42	0.943
14	68.75 - 68.5	0.25		0	24.000	24.000	0.8	A572-42	0.940
15	68.5 - 68.25	0.25		0	24.000	24.000	0.575	A572-42	0.977
16	68.25 - 64.5	3.75		0	24.000	24.000	0.575	A572-42	0.977
17	64.5 - 64.25	0.25		0	24.000	24.000	1.05	A572-42	0.932
18	64.25 - 63	1.25		0	24.000	24.000	1.05	A572-42	0.932
19	63 - 62.75	0.25		0	24.000	24.000	1	A572-42	0.946
20	62.75 - 60	2.75	0	0	24.000	24.000	1	A572-42	0.946
21	60 - 59.75	0.25		0	30.000	30.000	0.675	A572-42	1.044
22	59.75 - 54.75	5		0	30.000	30.000	0.675	A572-42	1.044
23	54.75 - 49.75	5		0	30.000	30.000	0.675	A572-42	1.044
24	49.75 - 49.083	0.667		0	30.000	30.000	0.675	A572-42	1.044
25	49.083 - 48.833	0.25		0	30.000	30.000	0.875	A572-42	0.886
26	48.833 - 43.833	5		0	30.000	30.000	0.875	A572-42	0.886
27	43.833 - 42	1.833		0	30.000	30.000	0.875	A572-42	0.886
28	42 - 41.75	0.25		0	30.000	30.000	1	A572-42	0.877
29	41.75 - 36.75	5		0	30.000	30.000	1	A572-42	0.877
30	36.75 - 34.5	2.25		0	30.000	30.000	1	A572-42	0.877
31	34.5 - 34.25	0.25		0	30.000	30.000	1.05	A572-42	0.931
32	34.25 - 34	0.25		0	30.000	30.000	1.05	A572-42	0.931
33	34 - 33.75	0.25		0	30.000	30.000	0.95	A572-42	0.922
34	33.75 - 30	3.75	0	0	30.000	30.000	0.95	A572-42	0.922
35	30 - 29.75	0.25		0	36.000	36.000	0.5875	A572-42	1.101
36	29.75 - 28.5	1.25		0	36.000	36.000	0.5875	A572-42	1.101
37	28.5 - 28.25	0.25		0	36.000	36.000	0.6125	A572-42	1.189
38	28.25 - 27.942	0.308		0	36.000	36.000	0.8375	A572-42	1.016
39	27.942 - 27.692	0.25		0	36.000	36.000	0.8375	A572-42	1.016
40	27.692 - 23	4.692		0	36.000	36.000	0.8375	A572-42	1.016
41	23 - 22.75	0.25		0	36.000	36.000	0.9625	A572-42	0.944
42	22.75 - 21.5	1.25		0	36.000	36.000	0.9625	A572-42	0.944
43	21.5 - 21.25	0.25		0	36.000	36.000	0.875	A572-42	0.942
44	21.25 - 21	0.25		0	36.000	36.000	0.875	A572-42	0.942
45	21 - 20.75	0.25		0	36.000	36.000	0.8	A572-42	0.977
46	20.75 - 19	1.75		0	36.000	36.000	0.8	A572-42	0.977
47	19 - 18.75	0.25		0	36.000	36.000	0.925	A572-42	0.981
48	18.75 - 18.5	0.25		0	36.000	36.000	0.925	A572-42	0.981
49	18.5 - 18.25	0.25		0	36.000	36.000	0.9	A572-42	0.982
50	18.25 - 13.25	5		0	36.000	36.000	0.9	A572-42	0.982
51	13.25 - 12.7	0.55		0	36.000	36.000	0.9	A572-42	0.982
52	12.7 - 12.35	0.35		0	36.000	36.000	0.8875	A572-42	1.085
53	12.35 - 12.125	0.225		0	36.000	36.000	0.8875	A572-42	1.085
54	12.125 - 12	0.125		0	36.000	36.000	0.8875	A572-42	1.085
55	12 - 11.75	0.25		0	36.000	36.000	1.075	A572-42	0.934
56	11.75 - 8.375	3.375		0	36.000	36.000	1.075	A572-42	0.934
57	8.375 - 8.125	0.25		0	36.000	36.000	1.175	A572-42	0.836
58	8.125 - 7.75	0.375		0	36.000	36.000	1.175	A572-42	0.836
59	7.75 - 7.5	0.25		0	36.000	36.000	1.075	A572-42	0.920
60	7.5 - 7.25	0.25		0	36.000	36.000	1.1	A572-42	0.937
61	7.25 - 4	3.25		0	36.000	36.000	1.1	A572-42	0.937
62	4 - 3.733	0.267		0	36.000	36.000	1.475	A572-42	0.746
63	3.733 - 3.583	0.15		0	36.000	36.000	1.475	A572-42	0.746
64	3.583 - 3	0.583		0	36.000	36.000	1.475	A572-42	0.746
65	3 - 2.75	0.25		0	36.000	36.000	1.475	A572-42	0.746
66	2.75 - 1.9	0.85		0	36.000	36.000	1.1	A572-42	0.827
67	1.9 - 1.65	0.25		0	36.000	36.000	1.1	A572-42	0.827
68	1.65 - 0	1.65		0	36.000	36.000	1.1	A572-42	0.827

TNX Section Forces

	Increment (ft): 5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	118 - 113	3.06	7.56	3.41
2	113 - 108	3.45	25.33	3.70
3	108 - 103	8.47	64.25	7.93
4	103 - 98	9.20	105.46	8.43
5	98 - 93	13.33	181.21	13.80
6	93 - 90	13.65	222.79	13.94
7	90 - 85	14.46	295.48	14.67
8	85 - 80	18.97	399.77	18.72
9	80 - 76.5	19.63	465.76	18.97
10	76.5 - 76.25	19.70	470.50	18.97
11	76.25 - 74	20.18	513.44	19.19
12	74 - 73.75	20.26	518.25	19.21
13	73.75 - 68.75	21.73	615.75	19.77
14	68.75 - 68.5	21.81	620.70	19.79
15	68.5 - 68.25	21.86	625.65	19.82
16	68.25 - 64.5	22.69	700.73	20.22
17	64.5 - 64.25	22.78	705.78	20.24
18	64.25 - 63	23.20	731.18	20.38
19	63 - 62.75	23.29	736.28	20.40
20	62.75 - 60	27.30	798.37	23.44
21	60 - 59.75	27.55	804.45	24.31
22	59.75 - 54.75	29.13	927.57	24.90
23	54.75 - 49.75	30.71	1054.57	25.74
24	49.75 - 49.083	30.93	1071.76	25.81
25	49.083 - 48.833	31.02	1078.21	25.84
26	48.833 - 43.833	32.73	1208.80	26.41
27	43.833 - 42	33.36	1257.37	26.62
28	42 - 41.75	33.47	1264.02	26.63
29	41.75 - 36.75	35.37	1398.55	27.19
30	36.75 - 34.5	36.24	1459.97	27.43
31	34.5 - 34.25	36.35	1466.83	27.45
32	34.25 - 34	36.46	1473.69	27.48
33	34 - 33.75	36.55	1480.56	27.50
34	33.75 - 30	37.99	1584.36	27.87
35	30 - 29.75	38.31	1591.55	28.77
36	29.75 - 28.5	38.74	1627.59	28.92
37	28.5 - 28.25	38.85	1634.82	28.93
38	28.25 - 27.942	38.99	1643.73	28.97
39	27.942 - 27.692	39.10	1650.98	29.00
40	27.692 - 23	41.15	1788.33	29.57
41	23 - 22.75	41.28	1795.72	29.58
42	22.75 - 21.5	41.85	1832.80	29.75
43	21.5 - 21.25	41.96	1840.23	29.76
44	21.25 - 21	42.07	1847.68	29.79
45	21 - 20.75	42.17	1855.13	29.82
46	20.75 - 19	42.88	1907.48	30.04
47	19 - 18.75	43.01	1914.99	30.04
48	18.75 - 18.5	43.13	1922.50	30.07
49	18.5 - 18.25	43.24	1930.02	30.10
50	18.25 - 13.25	45.52	2081.74	30.60
51	13.25 - 12.7	45.78	2098.58	30.65
52	12.7 - 12.35	45.95	2109.31	30.68
53	12.35 - 12.125	46.07	2116.21	30.70
54	12.125 - 12	46.13	2120.05	30.71
55	12 - 11.75	46.25	2127.73	30.73
56	11.75 - 8.375	47.96	2231.99	31.07
57	8.375 - 8.125	48.10	2239.76	31.08
58	8.125 - 7.75	48.28	2251.42	31.12
59	7.75 - 7.5	48.41	2259.20	31.14
60	7.5 - 7.25	48.54	2266.99	31.16
61	7.25 - 4	50.22	2368.75	31.48
62	4 - 3.733	50.38	2377.15	31.49
63	3.733 - 3.583	50.46	2381.88	31.50
64	3.583 - 3	50.77	2400.26	31.56
65	3 - 2.75	50.91	2408.15	31.58
66	2.75 - 1.9	51.30	2435.03	31.67
67	1.9 - 1.65	51.43	2442.94	31.68
68	1.65 - 0	52.19	2495.32	31.84

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
118 - 113	Pole	TP24x24x0.25	Pole	2.3%	Pass
113 - 108	Pole	TP24x24x0.25	Pole	6.6%	Pass
108 - 103	Pole	TP24x24x0.25	Pole	16.8%	Pass
103 - 98	Pole	TP24x24x0.25	Pole	26.8%	Pass
98 - 93	Pole	TP24x24x0.25	Pole	45.9%	Pass
93 - 90	Pole	TP24x24x0.25	Pole	55.9%	Pass
90 - 85	Pole	TP24x24x0.375	Pole	46.6%	Pass
85 - 80	Pole	TP24x24x0.375	Pole	63.1%	Pass
80 - 76.5	Pole	TP24x24x0.375	Pole	73.2%	Pass
76.5 - 76.25	Pole + Reinf.	TP24x24x0.5875	Reinf. 21 Tension Rupture	53.2%	Pass
76.25 - 74	Pole + Reinf.	TP24x24x0.5875	Reinf. 21 Tension Rupture	58.0%	Pass
74 - 73.75	Pole + Reinf.	TP24x24x0.9	Reinf. 3 Compression	58.0%	Pass
73.75 - 68.75	Pole + Reinf.	TP24x24x0.9	Reinf. 3 Compression	68.8%	Pass
68.75 - 68.5	Pole + Reinf.	TP24x24x0.8	Reinf. 21 Tension Rupture	53.3%	Pass
68.5 - 68.25	Pole + Reinf.	TP24x24x0.575	Reinf. 14 Tension Rupture	70.8%	Pass
68.25 - 64.5	Pole + Reinf.	TP24x24x0.575	Reinf. 14 Tension Rupture	79.2%	Pass
64.5 - 64.25	Pole + Reinf.	TP24x24x1.05	Reinf. 3 Compression	69.2%	Pass
64.25 - 63	Pole + Reinf.	TP24x24x1.05	Reinf. 3 Compression	71.7%	Pass
63 - 62.75	Pole + Reinf.	TP24x24x1	Reinf. 3 Compression	74.5%	Pass
62.75 - 60	Pole + Reinf.	TP24x24x1	Reinf. 3 Compression	80.8%	Pass
60 - 59.75	Pole + Reinf.	TP30x30x0.675	Reinf. 2 Compression	50.8%	Pass
59.75 - 54.75	Pole + Reinf.	TP30x30x0.675	Reinf. 2 Compression	58.4%	Pass
54.75 - 49.75	Pole + Reinf.	TP30x30x0.675	Reinf. 2 Compression	66.3%	Pass
49.75 - 49.08	Pole + Reinf.	TP30x30x0.675	Reinf. 2 Compression	67.4%	Pass
49.08 - 48.83	Pole + Reinf.	TP30x30x0.875	Reinf. 2 Compression	62.3%	Pass
48.83 - 43.83	Pole + Reinf.	TP30x30x0.875	Reinf. 2 Compression	69.7%	Pass
43.83 - 42	Pole + Reinf.	TP30x30x0.875	Reinf. 2 Compression	72.5%	Pass
42 - 41.75	Pole + Reinf.	TP30x30x1	Reinf. 2 Compression	64.1%	Pass
41.75 - 36.75	Pole + Reinf.	TP30x30x1	Reinf. 2 Compression	70.8%	Pass
36.75 - 34.5	Pole + Reinf.	TP30x30x1	Reinf. 2 Compression	73.9%	Pass
34.5 - 34.25	Pole + Reinf.	TP30x30x1.05	Reinf. 8 Compression	65.9%	Pass
34.25 - 34	Pole + Reinf.	TP30x30x1.05	Reinf. 8 Compression	66.2%	Pass
34 - 33.75	Pole + Reinf.	TP30x30x0.95	Reinf. 8 Compression	74.6%	Pass
33.75 - 30	Pole + Reinf.	TP30x30x0.95	Reinf. 8 Compression	79.7%	Pass
30 - 29.75	Pole + Reinf.	TP36x36x0.5875	Pole	75.7%	Pass
29.75 - 28.5	Pole + Reinf.	TP36x36x0.5875	Pole	77.4%	Pass
28.5 - 28.25	Pole + Reinf.	TP36x36x0.6125	Pole	77.5%	Pass
28.25 - 27.94	Pole + Reinf.	TP36x36x0.8375	Reinf. 1 Compression	61.6%	Pass
27.94 - 27.69	Pole + Reinf.	TP36x36x0.8375	Reinf. 1 Compression	61.8%	Pass
27.69 - 23	Pole + Reinf.	TP36x36x0.8375	Reinf. 1 Compression	67.0%	Pass
23 - 22.75	Pole + Reinf.	TP36x36x0.9625	Reinf. 1 Compression	62.8%	Pass
22.75 - 21.5	Pole + Reinf.	TP36x36x0.9625	Reinf. 1 Compression	64.1%	Pass
21.5 - 21.25	Pole + Reinf.	TP36x36x0.875	Reinf. 1 Compression	69.3%	Pass
21.25 - 21	Pole + Reinf.	TP36x36x0.875	Reinf. 1 Compression	69.6%	Pass
21 - 20.75	Pole + Reinf.	TP36x36x0.8	Reinf. 1 Compression	77.6%	Pass
20.75 - 19	Pole + Reinf.	TP36x36x0.8	Reinf. 1 Compression	79.8%	Pass
19 - 18.75	Pole + Reinf.	TP36x36x0.925	Reinf. 1 Compression	70.5%	Pass
18.75 - 18.5	Pole + Reinf.	TP36x36x0.925	Reinf. 1 Compression	70.8%	Pass
18.5 - 18.25	Pole + Reinf.	TP36x36x0.9	Reinf. 1 Compression	72.8%	Pass
18.25 - 13.25	Pole + Reinf.	TP36x36x0.9	Reinf. 1 Compression	78.5%	Pass
13.25 - 12.7	Pole + Reinf.	TP36x36x0.9	Reinf. 1 Compression	79.1%	Pass
12.7 - 12.35	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Compression	72.1%	Pass
12.35 - 12.13	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Compression	72.4%	Pass
12.13 - 12	Pole + Reinf.	TP36x36x0.8875	Reinf. 1 Compression	72.5%	Pass
12 - 11.75	Pole + Reinf.	TP36x36x1.075	Reinf. 4 Compression	63.5%	Pass
11.75 - 8.38	Pole + Reinf.	TP36x36x1.075	Reinf. 4 Compression	66.6%	Pass
8.38 - 8.13	Pole + Reinf.	TP36x36x1.175	Reinf. 1 Compression	71.3%	Pass
8.13 - 7.75	Pole + Reinf.	TP36x36x1.175	Reinf. 1 Compression	71.7%	Pass
7.75 - 7.5	Pole + Reinf.	TP36x36x1.075	Reinf. 4 Compression	67.9%	Pass
7.5 - 7.25	Pole + Reinf.	TP36x36x1.1	Reinf. 4 Compression	67.5%	Pass
7.25 - 4	Pole + Reinf.	TP36x36x1.1	Reinf. 4 Compression	70.5%	Pass
4 - 3.73	Pole + Reinf.	TP36x36x1.475	Reinf. 4 Compression	54.4%	Pass
3.73 - 3.58	Pole + Reinf.	TP36x36x1.475	Reinf. 4 Compression	54.5%	Pass
3.58 - 3	Pole + Reinf.	TP36x36x1.475	Reinf. 4 Compression	54.9%	Pass
3 - 2.75	Pole + Reinf.	TP36x36x1.475	Reinf. 4 Compression	55.1%	Pass
2.75 - 1.9	Pole + Reinf.	TP36x36x1.1	Pole	72.3%	Pass
1.9 - 1.65	Pole + Reinf.	TP36x36x1.1	Pole	72.6%	Pass
1.65 - 0	Pole + Reinf.	TP36x36x1.1	Pole	74.1%	Pass
				Summary	
			Pole	77.5%	Pass
			Reinforcement	80.8%	Pass
			Overall	80.8%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity* (100% Max. Allowable)																								
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R22	R23	R24
118 - 113	1315	n/a	1315	18.65	n/a	18.65	2.3%																								
113 - 108	1315	n/a	1315	18.65	n/a	18.65	6.6%																								
108 - 103	1315	n/a	1315	18.65	n/a	18.65	16.8%																								
103 - 98	1315	n/a	1315	18.65	n/a	18.65	26.8%																								
98 - 93	1315	n/a	1315	18.65	n/a	18.65	45.9%																								
93 - 90	1315	n/a	1315	18.65	n/a	18.65	55.9%																								
90 - 85	1942	n/a	1942	27.83	n/a	27.83	46.6%																								
85 - 80	1942	n/a	1942	27.83	n/a	27.83	63.1%																								
80 - 76.5	1942	n/a	1942	27.83	n/a	27.83	73.2%																								
76.5 - 76.25	1943	1016	2959	27.83	13.50	41.33	48.8%																					53.2%			
76.25 - 74	1943	1016	2959	27.83	13.50	41.33	53.2%																					58.0%			
74 - 73.75	1946	2415	4361	27.83	33.75	61.58	37.2%			58.0%																		42.6%			
73.75 - 68.75	1946	2415	4361	27.83	33.75	61.58	44.1%			68.8%																		50.5%			
68.75 - 68.5	1943	2022	3965	27.83	27.00	54.83	48.0%														51.0%							53.3%			
68.5 - 68.25	1944	966	2909	27.83	13.50	41.33	66.2%														70.8%										
68.25 - 64.5	1944	966	2909	27.83	13.50	41.33	74.1%														79.2%										
64.5 - 64.25	1946	3018	4964	27.83	42.75	70.58	44.3%			69.2%						52.5%					48.8%										
64.25 - 63	1946	3018	4964	27.83	42.75	70.58	45.8%			71.7%						54.4%					50.6%										
63 - 62.75	1946	2864	4810	27.83	40.50	68.33	47.7%			74.5%						56.7%				57.2%											
62.75 - 60	1946	2864	4810	27.83	40.50	68.33	51.8%			80.8%						61.5%				62.1%											
60 - 59.75	3835	2899	6735	34.90	30.00	64.90	48.3%		50.8%																						
59.75 - 54.75	3835	2899	6735	34.90	30.00	64.90	55.6%		58.4%																						
54.75 - 49.75	3835	2899	6735	34.90	30.00	64.90	63.1%		66.3%																						
49.75 - 49.08	3835	2899	6735	34.90	30.00	64.90	64.2%		67.4%																						
49.08 - 48.83	3865	4696	8561	34.90	36.00	70.90	52.8%		62.3%																60.4%						
48.83 - 43.83	3865	4696	8561	34.90	36.00	70.90	59.2%		69.7%																67.7%						
43.83 - 42	3865	4696	8561	34.90	36.00	70.90	61.5%		72.5%																70.4%						
42 - 41.75	3853	5778	9631	34.90	45.00	79.90	54.3%		64.1%										62.9%						61.8%						
41.75 - 36.75	3853	5778	9631	34.90	45.00	79.90	60.1%		70.8%										69.5%						68.3%						
36.75 - 34.5	3853	5778	9631	34.90	45.00	79.90	62.7%		73.9%										72.5%						71.3%						
34.5 - 34.25	3830	6090	9920	34.90	54.00	88.90	58.4%		65.4%						65.9%				65.7%						65.2%						
34.25 - 34	3830	6090	9920	34.90	54.00	88.90	58.7%		65.7%						66.2%				66.0%						65.5%						
34 - 33.75	3843	5245	9088	34.90	45.00	79.90	66.4%		73.8%						74.6%										73.6%						
33.75 - 30	3843	5245	9088	34.90	45.00	79.90	71.1%		79.0%						79.7%										78.8%						
30 - 29.75	6659	3545	10204	41.97	30.00	71.97	75.7%	75.4%																							
29.75 - 28.5	6659	3545	10204	41.97	30.00	71.97	77.4%	77.1%																							
28.5 - 28.25	6697	3997	10694	41.97	39.00	80.97	77.5%	73.7%																58.5%							
28.25 - 27.94	6662	7685	14347	41.97	52.00	93.97	56.1%	61.6%															56.8%	55.4%			54.0%				54.6%
27.94 - 27.69	6662	7685	14347	41.97	52.00	93.97	56.4%	61.8%															57.1%	55.7%			54.2%				54.8%
27.69 - 23	6662	7685	14347	41.97	52.00	93.97	61.0%	67.0%															61.8%	60.3%			58.7%				59.3%
23 - 22.75	6689	9632	16321	41.97	58.00	99.97	55.6%	62.8%										47.6%					59.9%	51.2%			54.0%				59.8%
22.75 - 21.5	6689	9632	16321	41.97	58.00	99.97	56.7%	64.1%										48.5%					61.2%	52.2%			55.1%				61.0%
21.5 - 21.25	6664	8315	14979	41.97	49.00	90.97	60.5%	69.3%										54.8%					61.3%				59.6%				63.5%
21.25 - 21	6664	8315	14979	41.97	49.00	90.97	60.7%	69.6%										55.0%					61.6%				59.8%				63.8%
21 - 20.75	6714	7152	13866	41.97	44.50	86.47	68.7%	77.6%										56.9%									63.5%				71.9%
20.75 - 19	6714	7152	13866	41.97	44.50	86.47	70.6%	79.8%										58.5%									65.2%				73.9%
19 - 18.75	6711	9165	15876	41.97	58.00	99.97	61.8%	70.5%			61.5%			55.1%				51.5%									53.7%				62.0%
18.75 - 18.5	6711	9165	15876	41.97	58.00	99.97	62.0%	70.8%			61.7%			55.3%				51.7%									53.9%				62.2%
18.5 - 18.25	6699	8530	15230	41.97	55.50	97.47	64.4%	72.8%			64.7%			56.9%			50.6%	54.5%													
18.25 - 13.25	6699	8530	15230	41.97	55.50	97.47	69.4%	78.5%			69.7%			61.3%			54.6%	58.8%													
13.25 - 12.7	6699	8530	15230	41.97	55.50	97.47	70.0%	79.1%			70.3%			61.8%			55.0%	59.3%													
12.7 - 12.35	6660	8414	15073	41.97	64.25	106.22	67.8%	72.1%			71.0%		40.3%				56.1%	56.1%								40.1%					
12.35 - 12.13	6660	8414	15073	41.97	64.25	106.22	68.0%	72.4%			71.3%		38.5%				56.3%	56.3%								40.3%					
12.13 - 12	6660	8414	15073	41.97	64.25	106.22	68.1%	72.5%			71.4%		38.6%				56.4%	56.4%								40.3%					
12 - 11.75	6741	11294	18035	41.97	68.25	110.22	61.2%	61.0%			63.5%		38.8%				55.5%									40.3%			49.4%		
11.75 - 8.38	6741	11294	18035	41.97	68.25	110.22	64.2%	63.9%			66.6%		40.7%				58.2%									42.3%			51.8%		
8.38 - 8.13	6920	12816	19737	41.97	65.50	107.47	62.2%	71.3%			67.0%		51.9%				58.5%	44.6%											48.2%		
8.13 - 7.75	6920	12816	19737	41.97	65.50	107.47	62.6%	71.7%			67.4%		52.2%				58.8%	44.8%											48.5%		
7.75 - 7.5	6755	11258	18013	41.97	66.56	108.53	65.4%	62.7%			67.9%						57.9%												52.9%	45.5%	
7.5 - 7.25	6823	11773	18595	41.97	71.06	113.03	65.1%	61.4%			67.5%	47.3%					56.8%												52.5%	42.7%	
7.25 - 4	6823	11773	18595	41.97	71.06	113.03	68.0%	64.2%			70.5%	49.4%					59.3%												54.9%	44.6%	
4 - 3.73	6767	17014	23781	41.97	77.31	119.28	52.4%				54.4%	44.6%					48.3%					47.1%							42.8%	41.3%	
3.73 - 3.58	6767	17014	23781	41.97	77.31	119.28	52.5%				54.5%	44.7%					48.4%					47.2%							42.8%	41.3%	
3.58 - 3	6767	17014	23781	41.97	77.31	119.28	52.9%				54.9%	45.0%					48.8%					47.6%							43.2%	41.7%	
3 - 2.75	6767	17014	23781	41.97	77.31	119.28	53.1%				55.1%	45.2%					49.0%					47.7%							43.3%	41.8%	
2.75 - 1.9	6987	11704	18691	41.97	57.81	99.78	72.3%															64.5%							49.0%	46.5%	
1.9 - 1.65	6987	11704	18691	41.97	57.81	99.78	72.6%															64.7%							49.2%	46.7%	
1.65 - 0	6987	11704	18691	41.97	57.81	99.78	74.1%															66.1%							50.2%	47.7%	

Note: Section capacity checked using 5 degree increments.

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

Monopole Flange Plate Connection

Elevation = 90 ft.

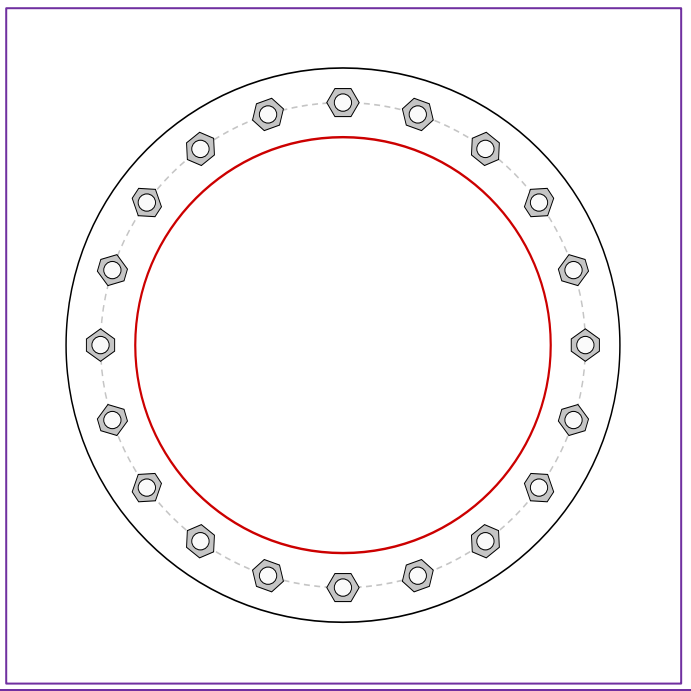
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

TIA-222 Revision	H

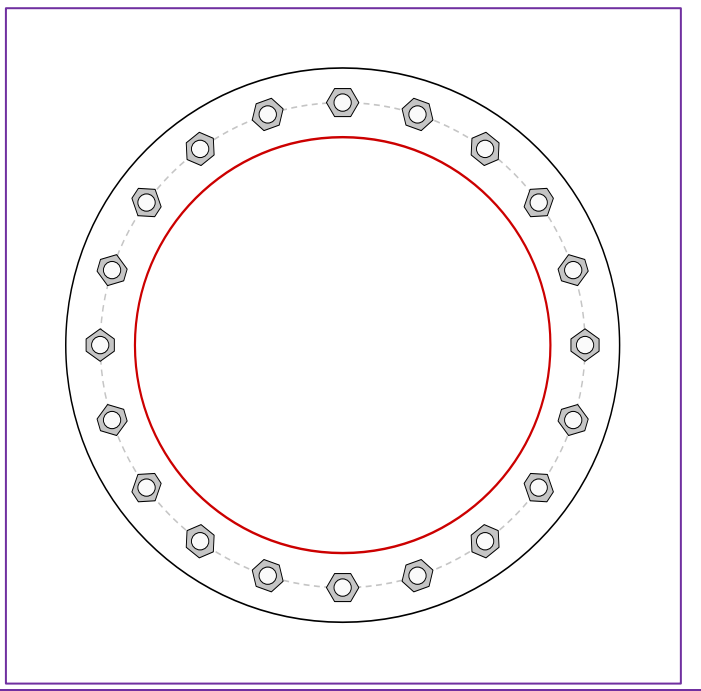
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	63.70	Moment (kip-ft)	159.09
Axial Force (kips)	13.65	Axial Force (kips)	0.00
Shear Force (kips)	13.94	Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(20) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 28" BC

Top Plate Data

32" OD x 1.5" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

32" OD x 1.5" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

24" x 0.25" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Bottom Pole Data

24" x 0.375" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Bridge Stiffener Group 1 Data

(3) Welded, 4.5''x1.25'', A572-65, Lu=5.125", Upper Plate Width=9'', Lower Plate Width=9'', Neglect Flange in MOI: No

Analysis Results

Bolt Capacity

Max Load (kips)	4.77	
Allowable (kips)	54.53	
Stress Rating:	**8.3%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	3.42	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**10.0%**	**Pass**
Tension Side Stress Rating:	**3.6%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	3.42	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**10.0%**	**Pass**
Tension Side Stress Rating:	**3.6%**	**Pass**

Bridge Stiffener Group 1 Analysis Capacity

Max Compression (kip):	67.88	
Max Tension (kip):	67.88	
Comp. Capacity (kip):	322.81	
Tens. Capacity (kip):	329.06	(Yield)
Comp. Stress Rating:	**20.0%**	**Pass**
Tens. Stress Rating:	**19.6%**	**Pass**

Welded Bridge Stiffener Design

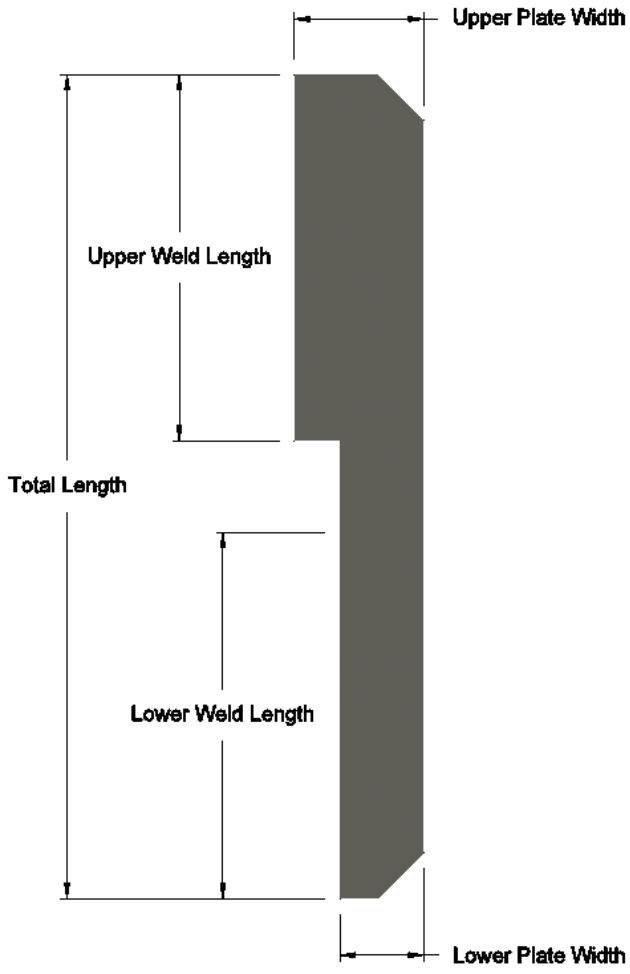
Elevation = 90 ft.

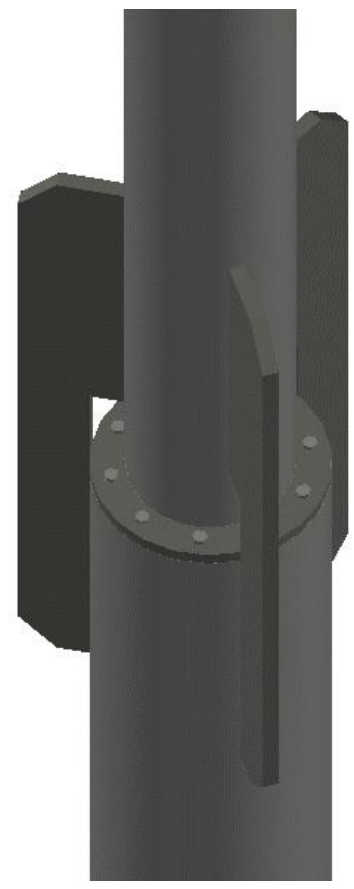
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

TIA-222 Revision	H

Applied Loads to Design Groups	
Moment (kip-ft)	159.09
Axial Force (kips)	0.00
Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*





Design Properties

Bridge Stiffener Group 1 Data

(3) Welded, 4.5''x1.25'', A572-65, Lu=5.125", Upper Plate Width=9'', Lower Plate Width=9'', Neglect Flange in MOI: No

Total Length:	84	in
Weld Type:	Fillet (both sides)	
Weld Size:	0.375	in
Exx:	70	ksi
Upper Weld Length:	39.6875	in
Upper Plate Width:	9	in
Lower Weld Length:	39.6875	in
Lower Plate Width:	9	in
Stiffener Front EPA (No Ice):	7.10	ft²
Stiffener Side EPA (No Ice):	1.46	ft²
Stiffener Front EPA (1/2'' Ice):	7.55	ft²
Stiffener Side EPA (1/2'' Ice):	2.66	ft²
Stiffener Weight (No Ice):	0.245	kip
Stiffener Weight (1/2'' Ice):	0.271	kip

Upper Weld Size:	***Good***
Upper Weld Rating:	**10.04%**
Lower Weld Size:	***Good***
Lower Weld Rating:	**10.04%**
Top Plate Lateral-Torsional Buckling Rating:	**1.65%**
Top Plate Tension Yield Rating:	**3.34%**
Top Plate Tension Rupture Rating:	**3.62%**
Top Plate Interaction Rating:	**1.79%**
Bottom Plate Lateral-Torsional Buckling Rating:	**1.65%**
Bottom Plate Tension Yield Rating:	**3.34%**
Bottom Plate Tension Rupture Rating:	**3.62%**
Bottom Plate Interaction Rating:	**1.79%**
Top Pole Punching Shear Rating:	**8.79%**
Bottom Pole Punching Shear Rating:	**5.86%**

Monopole Flange Plate Connection

Elevation = 60 ft.

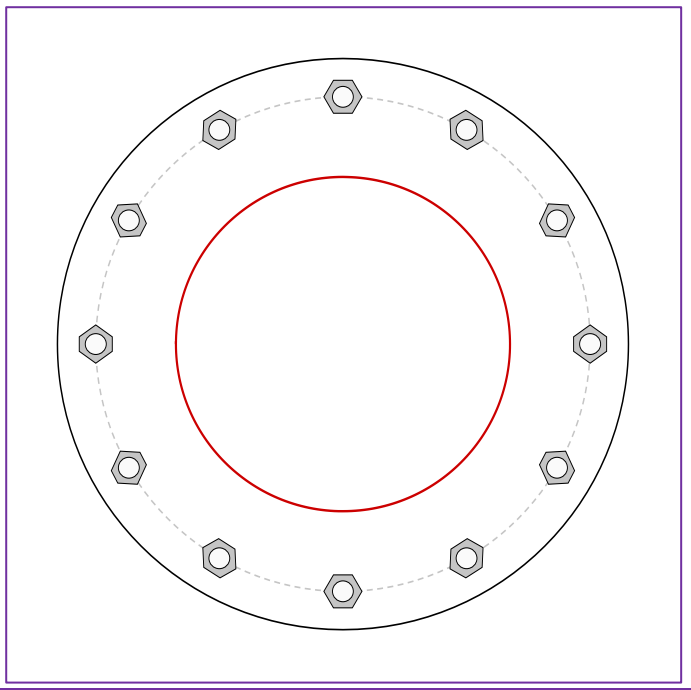
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

TIA-222 Revision	H

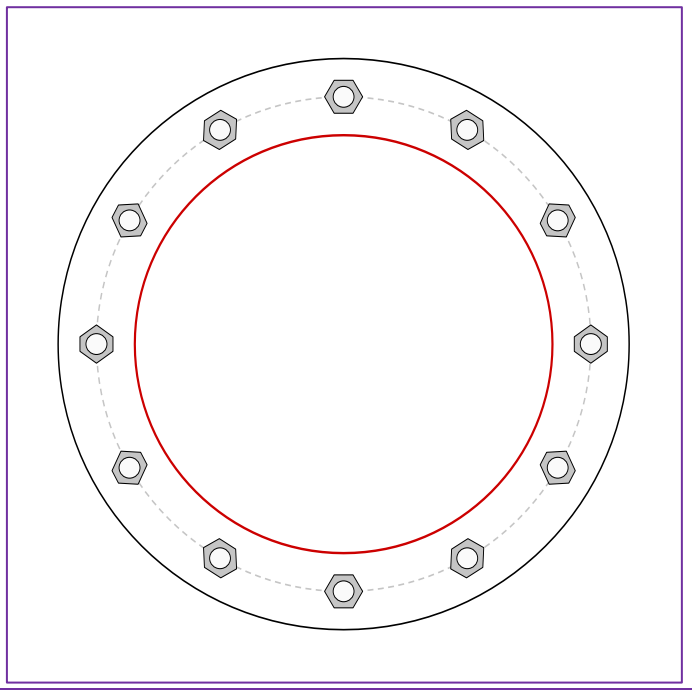
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	223.89	Moment (kip-ft)	574.48
Axial Force (kips)	27.30	Axial Force (kips)	0.00
Shear Force (kips)	23.44	Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(12) 1-1/2" ø bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 35.5" BC

Top Plate Data

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

Bottom Plate Data

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

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

24" x 0.375" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Bottom Pole Data

30" x 0.375" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Bridge Stiffener Group 1 Data

(3) Welded, 4.5''x1.25'', A572-65, Lu=5.125", Upper Plate Width=13.5'', Lower Plate Width=10.5'', Neglect Flange in MOI: No

Bridge Stiffener Group 2 Data

(3) Welded, 3''x1'', A572-65, Lu=5.625", Upper Plate Width=12'', Lower Plate Width=9'', Neglect Flange in MOI: No

Analysis Results

Bolt Capacity

Max Load (kips)	22.93	
Allowable (kips)	126.86	
Stress Rating:	**17.2%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	12.26	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**36.0%**	**Pass**
Tension Side Stress Rating:	**19.0%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	6.02	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**17.7%**	**Pass**
Tension Side Stress Rating:	**5.9%**	**Pass**

Bridge Stiffener Group 1 Analysis Capacity

Max Compression (kip):	131.83	
Max Tension (kip):	131.83	
Comp. Capacity (kip):	322.81	
Tens. Capacity (kip):	329.06	(Yield)
Comp. Stress Rating:	**38.9%**	**Pass**
Tens. Stress Rating:	**38.2%**	**Pass**

Bridge Stiffener Group 2 Analysis Capacity

Max Compression (kip):	68.04	
Max Tension (kip):	68.04	
Comp. Capacity (kip):	169.28	
Tens. Capacity (kip):	175.50	(Yield)
Comp. Stress Rating:	**38.3%**	**Pass**
Tens. Stress Rating:	**36.9%**	**Pass**

Welded Bridge Stiffener Design

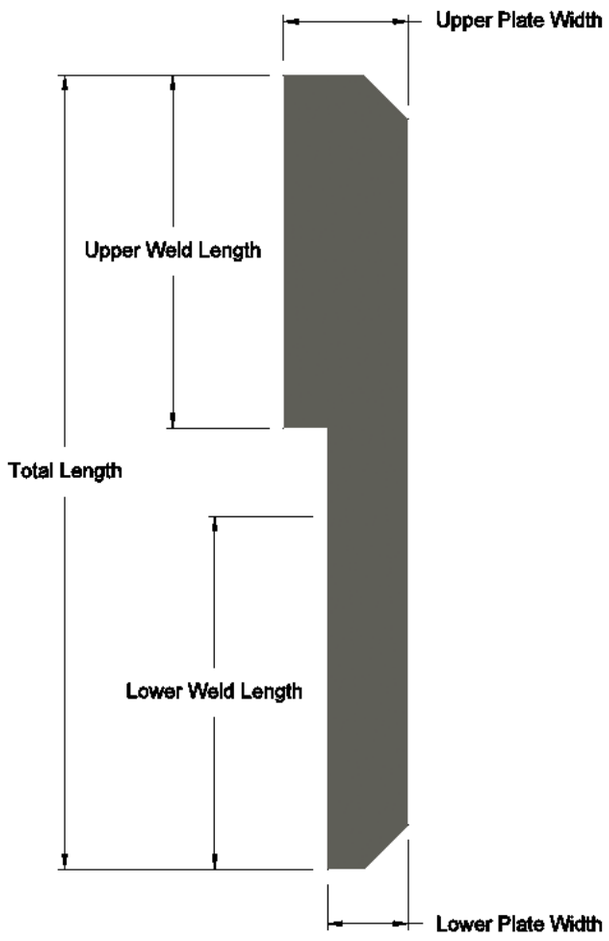
Elevation = 60 ft.

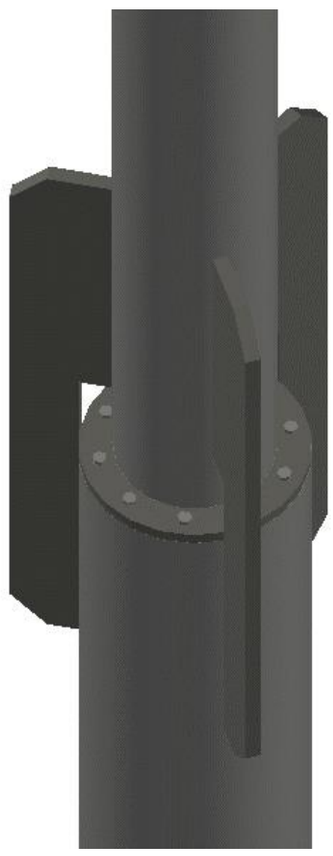
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

TIA-222 Revision	H

Applied Loads to Design Groups	
Moment (kip-ft)	574.48
Axial Force (kips)	0.00
Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*





Design Properties

Bridge Stiffener Group 1 Data

(3) Welded, 4.5''x1.25'', A572-65, Lu=5.125", Upper Plate Width=13.5'', Lower Plate Width=10.5'', Neglect Flange in MOI: No

Total Length:	84	in	Upper Weld Size:	***Good***
Weld Type:	Fillet (both sides)		Upper Weld Rating:	**22.62%**
Weld Size:	0.375	in	Lower Weld Size:	***Good***
Exx:	70	ksi	Lower Weld Rating:	**20.53%**
Upper Weld Length:	39.1875	in	Top Plate Lateral-Torsional Buckling Rating:	**5.75%**
Upper Plate Width:	13.5	in	Top Plate Tension Yield Rating:	**6.57%**
Lower Weld Length:	39.1875	in	Top Plate Tension Rupture Rating:	**7.12%**
Lower Plate Width:	10.5	in	Top Plate Interaction Rating:	**6.28%**
			Bottom Plate Lateral-Torsional Buckling Rating:	**4.07%**
Stiffener Front EPA (No Ice):	9.48	ft²	Bottom Plate Tension Yield Rating:	**6.57%**
Stiffener Side EPA (No Ice):	1.46	ft²	Bottom Plate Tension Rupture Rating:	**7.12%**
Stiffener Front EPA (1/2'' Ice):	9.98	ft²	Bottom Plate Interaction Rating:	**4.61%**
Stiffener Side EPA (1/2'' Ice):	2.66	ft²	Top Pole Punching Shear Rating:	**19.47%**
Stiffener Weight (No Ice):	0.354	kip	Bottom Pole Punching Shear Rating:	**14.27%**
Stiffener Weight (1/2'' Ice):	0.391	kip		

Bridge Stiffener Group 2 Data

(3) Welded, 3''x1'', A572-65, Lu=5.625", Upper Plate Width=12'', Lower Plate Width=9'', Neglect Flange in MOI: No

Total Length:	48.875	in	Upper Weld Size:	***Good***
Weld Type:	Fillet (both sides)		Upper Weld Rating:	**25.03%**
Weld Size:	0.375	in	Lower Weld Size:	***Good***
Exx:	70	ksi	Lower Weld Rating:	**26.02%**
Upper Weld Length:	23.25	in	Top Plate Lateral-Torsional Buckling Rating:	**9.57%**
Upper Plate Width:	12	in	Top Plate Tension Yield Rating:	**7.15%**
Lower Weld Length:	20	in	Top Plate Tension Rupture Rating:	**7.74%**
Lower Plate Width:	9	in	Top Plate Interaction Rating:	**10.20%**
			Bottom Plate Lateral-Torsional Buckling Rating:	**8.84%**
Stiffener Front EPA (No Ice):	4.49	ft²	Bottom Plate Tension Yield Rating:	**8.31%**
Stiffener Side EPA (No Ice):	0.68	ft²	Bottom Plate Tension Rupture Rating:	**9.00%**
Stiffener Front EPA (1/2'' Ice):	4.83	ft²	Bottom Plate Interaction Rating:	**9.69%**
Stiffener Side EPA (1/2'' Ice):	1.38	ft²	Top Pole Punching Shear Rating:	**26.64%**
Stiffener Weight (No Ice):	0.145	kip	Bottom Pole Punching Shear Rating:	**25.71%**
Stiffener Weight (1/2'' Ice):	0.164	kip		

Monopole Flange Plate Connection

Elevation = 30 ft.

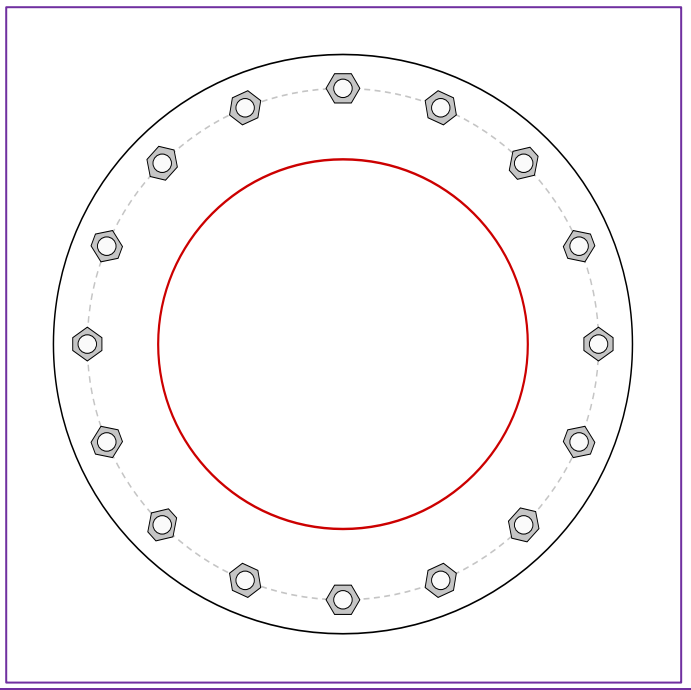
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

TIA-222 Revision	H

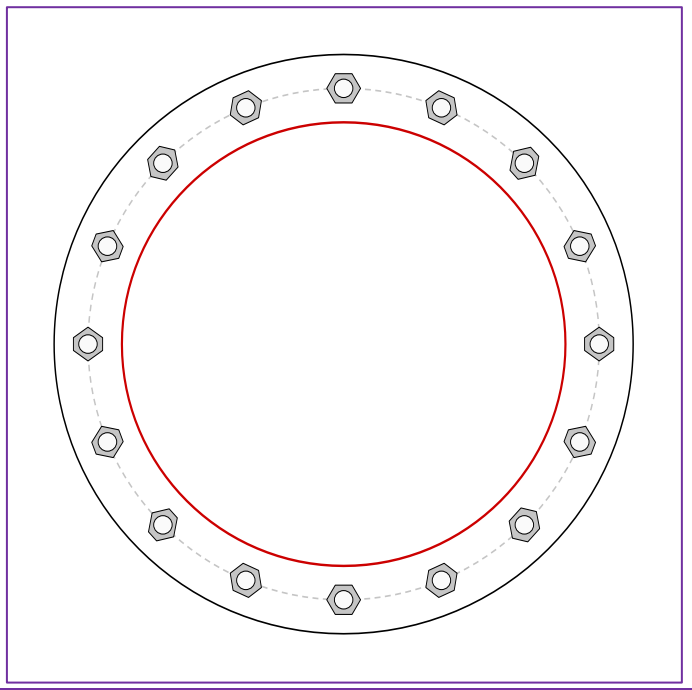
Applied Loads to Flange Connections		Applied Loads to Bridge Stiffeners	
Moment (kip-ft)	464.27	Moment (kip-ft)	1120.09
Axial Force (kips)	37.99	Axial Force (kips)	0.00
Shear Force (kips)	27.87	Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(16) 1-1/2" ø bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 41.5" BC

Top Plate Data

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

Bottom Plate Data

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

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

30" x 0.375" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Bottom Pole Data

36" x 0.375" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Bridge Stiffener Group 1 Data

(3) Welded, 4.5''x1.25'', A572-65, Lu=6.125", Upper Plate Width=13.5'', Lower Plate Width=10.5'', Neglect Flange in MOI: No

Bridge Stiffener Group 2 Data

(3) Welded, 5.5''x1'', A572-65, Lu=5.625", Upper Plate Width=14.5'', Lower Plate Width=11.5'', Neglect Flange in MOI: No

Analysis Results

Bolt Capacity

Max Load (kips)	31.17	
Allowable (kips)	126.87	
Stress Rating:	**23.4%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	17.92	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**52.7%**	**Pass**
Tension Side Stress Rating:	**27.8%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	8.57	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**25.2%**	**Pass**
Tension Side Stress Rating:	**9.0%**	**Pass**

Bridge Stiffener Group 1 Analysis Capacity

Max Compression (kip):	169.38	
Max Tension (kip):	169.38	
Comp. Capacity (kip):	320.17	
Tens. Capacity (kip):	329.06	(Yield)
Comp. Stress Rating:	**50.4%**	**Pass**
Tens. Stress Rating:	**49.0%**	**Pass**

Bridge Stiffener Group 2 Analysis Capacity

Max Compression (kip):	168.77	
Max Tension (kip):	168.77	
Comp. Capacity (kip):	310.35	
Tens. Capacity (kip):	321.75	(Yield)
Comp. Stress Rating:	**51.8%**	**Pass**
Tens. Stress Rating:	**50.0%**	**Pass**

Welded Bridge Stiffener Design

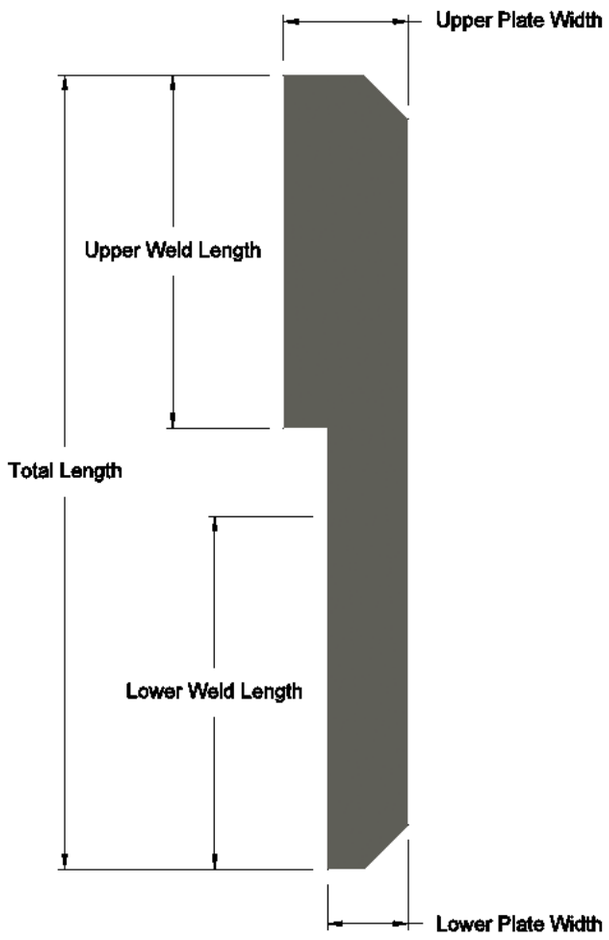
Elevation = 30 ft.

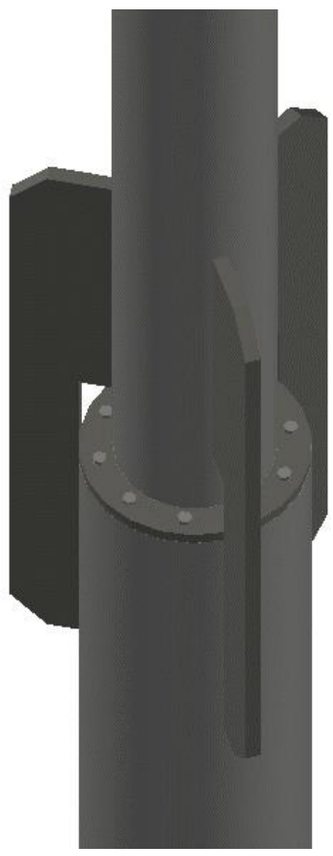
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

TIA-222 Revision	H

Applied Loads to Design Groups	
Moment (kip-ft)	1120.09
Axial Force (kips)	0.00
Shear Force (kips)	0.00

**TIA-222-H Section 15.5 Applied*





Design Properties

Bridge Stiffener Group 1 Data

(3) Welded, 4.5''x1.25'', A572-65, Lu=6.125", Upper Plate Width=13.5'', Lower Plate Width=10.5'', Neglect Flange in MOI: No

Total Length:	84	in	Upper Weld Size:	***Good***
Weld Type:	Fillet (both sides)		Upper Weld Rating:	**29.07%**
Weld Size:	0.375	in	Lower Weld Size:	***Good***
Exx:	70	ksi	Lower Weld Rating:	**26.38%**
Upper Weld Length:	39.1875	in	Top Plate Lateral-Torsional Buckling Rating:	**7.39%**
Upper Plate Width:	13.5	in	Top Plate Tension Yield Rating:	**8.44%**
Lower Weld Length:	39.1875	in	Top Plate Tension Rupture Rating:	**9.15%**
Lower Plate Width:	10.5	in	Top Plate Interaction Rating:	**8.27%**
			Bottom Plate Lateral-Torsional Buckling Rating:	**5.24%**
Stiffener Front EPA (No Ice):	9.48	ft²	Bottom Plate Tension Yield Rating:	**8.44%**
Stiffener Side EPA (No Ice):	1.46	ft²	Bottom Plate Tension Rupture Rating:	**9.15%**
Stiffener Front EPA (1/2'' Ice):	9.98	ft²	Bottom Plate Interaction Rating:	**6.11%**
Stiffener Side EPA (1/2'' Ice):	2.66	ft²	Top Pole Punching Shear Rating:	**25.01%**
Stiffener Weight (No Ice):	0.354	kip	Bottom Pole Punching Shear Rating:	**18.34%**
Stiffener Weight (1/2'' Ice):	0.391	kip		

Bridge Stiffener Group 2 Data

(3) Welded, 5.5''x1'', A572-65, Lu=5.625", Upper Plate Width=14.5'', Lower Plate Width=11.5'', Neglect Flange in MOI: No

Total Length:	66.125	in	Upper Weld Size:	***Good***
Weld Type:	Fillet (both sides)		Upper Weld Rating:	**39.37%**
Weld Size:	0.375	in	Lower Weld Size:	***Good***
Exx:	70	ksi	Lower Weld Rating:	**41.48%**
Upper Weld Length:	32.25	in	Top Plate Lateral-Torsional Buckling Rating:	**15.11%**
Upper Plate Width:	14.5	in	Top Plate Tension Yield Rating:	**12.78%**
Lower Weld Length:	28.25	in	Top Plate Tension Rupture Rating:	**13.84%**
Lower Plate Width:	11.5	in	Top Plate Interaction Rating:	**17.12%**
			Bottom Plate Lateral-Torsional Buckling Rating:	**13.69%**
Stiffener Front EPA (No Ice):	7.69	ft²	Bottom Plate Tension Yield Rating:	**14.59%**
Stiffener Side EPA (No Ice):	0.92	ft²	Bottom Plate Tension Rupture Rating:	**15.80%**
Stiffener Front EPA (1/2'' Ice):	8.12	ft²	Bottom Plate Interaction Rating:	**16.31%**
Stiffener Side EPA (1/2'' Ice):	1.86	ft²	Top Pole Punching Shear Rating:	**38.43%**
Stiffener Weight (No Ice):	0.243	kip	Bottom Pole Punching Shear Rating:	**37.30%**
Stiffener Weight (1/2'' Ice):	0.274	kip		

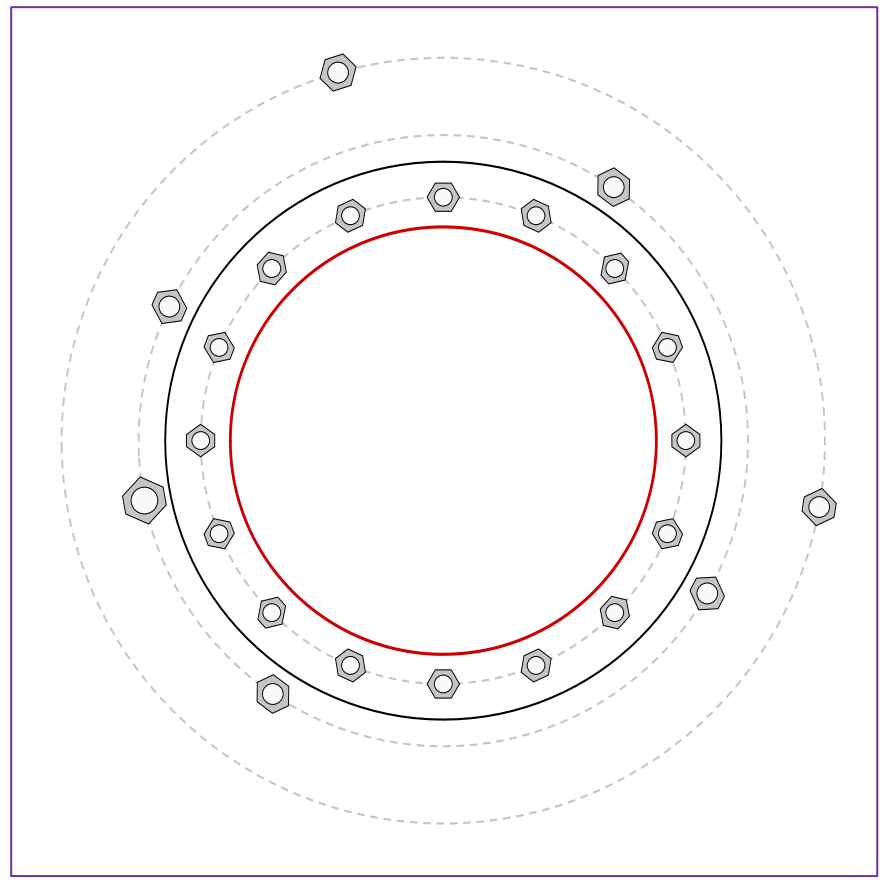
Monopole Base Plate Connection

Site Info	
BU #	876331
Site Name	ew Britain Gravel Pit, C
Order #	616729, Rev# 0

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

Applied Loads	
Moment (kip-ft)	2495.32
Axial Force (kips)	52.19
Shear Force (kips)	31.84

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (16) 1-1/2" ø bolts (A354-BC N; Fy=109 ksi, Fu=125 ksi) on 41" BC

GROUP 2: (4) 1-3/4" ø bolts (Dywidag 150 ksi N; Fy=120 ksi, Fu=125 ksi) on 51.5" BC
pos. (deg): 56, 154, 236, 330

GROUP 3: (1) 2-1/4" ø bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 51.5" BC
pos. (deg): 191.3

GROUP 4: (2) 1-3/4" ø bolts (Williams R71 N; Fy=120 ksi, Fu=125 ksi) on 64.5" BC
pos. (deg): 106, 350

Base Plate Data

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

Stiffener Data

N/A

Pole Data

36" x 0.375" round pole (A572-42; Fy=42 ksi, Fu=60 ksi)

Analysis Results

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

GROUP 1:		
Pu_t = 83.96	ϕPn_t = 132.19	**Stress Rating**
Vu = 1.99	ϕVn = 82.83	**60.5%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu_t = 191.66	ϕPn_t = 241.88	**Stress Rating**
Vu = 0	ϕVn = 120.94	**75.5%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 3:		
Pu_t = 195.58	ϕPn_t = 304.69	**Stress Rating**
Vu = 0	ϕVn = 186.38	**61.1%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 4:		
Pu_t = 224.32	ϕPn_t = 243.75	**Stress Rating**
Vu = 0	ϕVn = 121.88	**87.6%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	19.57	(Flexural)
Allowable Stress (ksi):	32.4	
Stress Rating:	**57.5%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

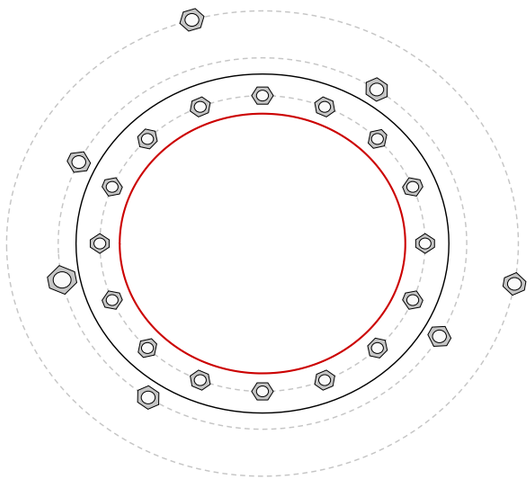
note: Bending interaction not considered when Grout Considered = "Yes"

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

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	I_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1.5	A354-BC	41	0.55	0	N-Included		No
2	1	22.5	1.5	A354-BC	41	0.55	0	N-Included		No
3	1	45	1.5	A354-BC	41	0.55	0	N-Included		No
4	1	67.5	1.5	A354-BC	41	0.55	0	N-Included		No
5	1	90	1.5	A354-BC	41	0.55	0	N-Included		No
6	1	112.5	1.5	A354-BC	41	0.55	0	N-Included		No
7	1	135	1.5	A354-BC	41	0.55	0	N-Included		No
8	1	157.5	1.5	A354-BC	41	0.55	0	N-Included		No
9	1	180	1.5	A354-BC	41	0.55	0	N-Included		No
10	1	202.5	1.5	A354-BC	41	0.55	0	N-Included		No
11	1	225	1.5	A354-BC	41	0.55	0	N-Included		No
12	1	247.5	1.5	A354-BC	41	0.55	0	N-Included		No
13	1	270	1.5	A354-BC	41	0.55	0	N-Included		No
14	1	292.5	1.5	A354-BC	41	0.55	0	N-Included		No
15	1	315	1.5	A354-BC	41	0.55	0	N-Included		No
16	1	337.5	1.5	A354-BC	41	0.55	0	N-Included		No
17	2	56	1.75	Dywidag 150 ksi	51.5	0.5	0	N-Included	2.58	No
18	2	154	1.75	Dywidag 150 ksi	51.5	0.5	0	N-Included	2.58	No
19	2	236	1.75	Dywidag 150 ksi	51.5	0.5	0	N-Included	2.58	No
20	2	330	1.75	Dywidag 150 ksi	51.5	0.5	0	N-Included	2.58	No
21	3	191.3	2.25	A193 Gr. B7	51.5	0.5	0	N-Included		No
22	4	106	1.75	Williams R71	64.5	0.5	0	N-Included	2.6	No
23	4	350	1.75	Williams R71	64.5	0.5	0	N-Included	2.6	No

Plot Graphic



PROJECT	**151136.007.01 - NEW BRITAIN GRAVEL PIT, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
DATE	**05/10/22**
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	191.66	kips
AR Capacity	365.2	kips

Tower Type	Monopole

Manufacturers Tower Prop.		
Pole Thickness	0.375	in
Pole Grade	Custom	
Fy	42	ksi
Fu	60	ksi
Base Plate Gr.	A36	
Fy	36	ksi
Fu	58	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	1 3/4 - 150	in
Grade	A722-150 (Willi	
Fy	120	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	47.7%	-
Tube Compression	71.5%	-
Gusset Shear	38.6%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	47.8%	-
Welds: Gusset to Tube	79.8%	-
Welds: Geometry	N/A	
Tower Punching	10.3%	-
Tube Punching	79.0%	-
Utilization	**79.8%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	4 XXS Pipe		FEXX	70	ksi
Width at Tube	5.5	in	Total Length	10.5	in	Weld Type	PJP - Double Bevel	
Height at Pole	66	in	Length above Gusset	0	in	Fillet Size	3/8	in
Height at Tube	10.5	in	Length below Gusset	0	in	Bevel Depth	3/8	in
Grade	A572-65		Grade	A53-B				
Fy	65	ksi	Fy	35	ksi			
Fu	80	ksi	Fu	60	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	5/8	in	Fillet Size	5/8	in
			Bevel Depth	5/8	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	Yes	
			Fillet Size	3/8	in

PROJECT	**151136.007.01 - NEW BRITAIN GRAVEL PIT, CT**
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Apply TIA-222-H Section 15.5?	Yes

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Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	191.66	kips
AR Capacity	365.2	kips

Tower Type	Monopole

Manufacturers Tower Prop.		
Pole Thickness	0.375	in
Pole Grade	Custom	
Fy	42	ksi
Fu	60	ksi
Base Plate Gr.	A36	
Fy	36	ksi
Fu	58	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	1 3/4 - 150	in
Grade	A722-150 (Willi	
Fy	120	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	47.7%	-
Tube Compression	71.5%	-
Gusset Shear	38.6%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	57.0%	-
Welds: Gusset to Tube	79.8%	-
Welds: Geometry	N/A	
Tower Punching	86.6%	-
Tube Punching	79.0%	-
Utilization	**86.6%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	4 XXS Pipe		FEXX	70	ksi
Width at Tube	5.5	in	Total Length	10.5	in	Weld Type	PJP - Double Bevel	
Height at Pole	18	in	Length above Gusset	0	in	Fillet Size	3/8	in
Height at Tube	10.5	in	Length below Gusset	0	in	Bevel Depth	3/8	in
Grade	A572-65		Grade	A53-B				
Fy	65	ksi	Fy	35	ksi			
Fu	80	ksi	Fu	60	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	5/8	in	Fillet Size	5/8	in
			Bevel Depth	5/8	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	Yes	
			Fillet Size	3/8	in

PROJECT	**151136.007.01 - NEW BRITAIN GRAVEL PIT, CT**
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v4.6.1	

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

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Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	195.58	kips
AR Capacity	375.7	kips

Tower Type	Monopole	

Manufacturers Tower Prop.		
Pole Thickness	0.375	in
Pole Grade	Custom	
Fy	42	ksi
Fu	60	ksi
Base Plate Gr.	A36	
Fy	36	ksi
Fu	58	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	2.25	in
Grade	A193 Gr B7	
Fy	105	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	38.1%	-
Tube Compression	57.1%	-
Gusset Shear	12.5%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	39.6%	-
Welds: Gusset to Tube	25.4%	-
Welds: Geometry	N/A	
Tower Punching	14.2%	-
Tube Punching	9.8%	-
Utilization	**57.1%**	

Bracket Properties

Gusset		
Thickness	1.25	in
Width at Tube	4.5	in
Height at Pole	54	in
Height at Tube	33	in
Grade	A572-65	
Fy	65	ksi
Fu	80	ksi

Pipe/Tube		
Size	HSS5x5x1/2	
Total Length	24	in
Length above Gusset	0	in
Length below Gusset	-9	in
Grade	A500 Grade B (Square)	
Fy	46	ksi
Fu	58	ksi

Weld - Gusset to Pipe/Tube		
FEXX	70	ksi
Weld Type	Double Fillet	
Fillet Size	1/2	in

Weld - Gusset to Tower		
FEXX	70	ksi
Weld Type	Double Fillet	
Fillet Size	3/8	in

Weld - Gusset to Base Plate		
FEXX	70	ksi
Weld Type	CJP - Double Bevel	
Fillet Size	5/8	in
Bevel Depth	5/8	in
Gap	0	in
Notch (horiz)	0.75	in
Notch (vert)	0.75	in
Pipe/Tube Welded to Base/Footpad?	No	

PROJECT	**151136.007.01 - NEW BRITAIN GRAVEL PIT, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
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v4.6.1	

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

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

Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	224.32	kips
AR Capacity	259.8	kips

Tower Type	Monopole

Manufacturers Tower Prop.		
Pole Thickness	0.375	in
Pole Grade	Custom	
Fy	42	ksi
Fu	60	ksi
Base Plate Gr.	A36	
Fy	36	ksi
Fu	58	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	1.75	in
Grade	A722-150 (Willi	
Fy	120	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	43.7%	-
Tube Compression	65.5%	-
Gusset Shear	4.8%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	10.4%	-
Welds: Gusset to Tube	9.7%	-
Welds: Geometry	N/A	
Tower Punching	3.8%	-
Tube Punching	1.3%	-
Utilization	**65.5%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	HSS5x5x1/2		FEXX	70	ksi
Width at Tube	11	in	Total Length	99	in	Weld Type	Double Fillet	
Height at Pole	156	in	Length above Gusset	0	in	Fillet Size	1/2	in
Height at Tube	99	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	3/8	in	Fillet Size	5/8	in
			Bevel Depth	5/8	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	No	

Pier and Pad Foundation

BU # :	876331
Site Name:	New Britain Gravel
App. Number:	556502, Rev# 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp}:	52	kips
Base Shear, Vu_comp:	32	kips
Moment, M_u:	1080	ft-kips
Tower Height, **H**:	118	ft
BP Dist. Above Fdn, bp_{dist}:	1.5	in
Bolt Circle / Bearing Plate Width, **BC**:	41	in

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	220.65	32.00	**13.8%**	**Pass**
Bearing Pressure (ksf)	22.50	4.86	**21.6%**	**Pass**
*Overturning (kip*ft)*	1866.52	1276.00	**68.4%**	**Pass**
*Pad Flexure (kip*ft)*	4029.63	610.34	**14.4%**	**Pass**
Pad Shear - 1-way (kips)	1064.77	28.65	**2.6%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.002	**1.1%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	8059.26	0.00	**0.0%**	**Pass**

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

Structural Rating*:	**14.4%**
Soil Rating*:	**68.4%**

Pad Properties		
Depth, **D**:	4	ft
Pad Width, W_1:	16	ft
Pad Thickness, **T**:	6	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	17	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	150	pcf
Ultimate Gross Bearing, Qult:	30.000	ksf
Cohesion, **Cu**:	10.000	ksf
Friction Angle, φ:	0	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.3	
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Pile Foundation

Checks the capacity of pile foundation configurations for monopoles or self-support towers with individual foundations in Rev. F, G, and H.

BU #:	876331
Site Name:	New Britain Gravel Pit, CT
Order:	616729, Rev# 0

Tower Type:	Monopole
TIA Revision:	H

Top & Bot. Pad Rein. Different?: ☐

Factored Design Reactions At Base		
Moment, M:	1415	ft-kips
Axial, Pu:	0.1	kips
Shear, Sc:	0.1	kips
Load Eccentricity, Ecc:	0	in
Bolt Circle / Bearing Plate Width, BC:	41	in

Pile Properties		
Pile Shape:	Round	
Pile Material:	Steel	
Length of Pile, Lpile:	33	ft
Pile Diameter:	1.375	in
Pile (Soil) Capacity Given?	Yes	
Steel Grade, Fy:	150	ksi
Rebar Quantity, Pquan:		

Pile Group		
Group Configuration:	Asymmetric	
Orientation of Neutral Axis, θ:	0	deg
Group Efficiency Given in Geotech?	No	

Program Calculated Group Efficiency, Eg: 1.00

Pile Cap		
Cap Type:	Block	
Depth to Bottom of Block, D:	4.00	ft
Thickness of Block, T:	6.00	ft
Block Width, Wx:	16.00	ft
Block Length, Wy:	16.00	ft
Pad Rebar Size (Bot.), Spad:	8	
Pad Rebar Quantity (X-direction) (Bot.), Mpad:	17	
Pad Rebar Quantity (Y-direction) (Bot.), $Mpad_y$:	17	

Material Properties		
Rebar Grade, Fy:	60	ksi
Concrete Strength, Fc:	3	ksi
Clear Cover, cc:	3	in

Soil Properties		
Groundwater Depth, GW:	99.00	ft
Soil Unit Weight:	150	pcf
Cohesion, Co:	10	ksf
Friction Angle, ϕ:	0	deg
Neglected Depth, ND:	1	ft
Negative Friction Force (per pile), Sw:		kips
SPT Blow Count, N_{blows}:		

Design Checks				
	Capacity	***Demand***	***Rating****	***Check***
PILE CHECKS				
Soil Compression (kips per pile):	127.50	133.48	**99.7%**	**Pass**
Soil Uplift (kips per pile):	127.50	133.30	**99.6%**	**Pass**
Pile Tensile Strength (kips):	178.19	133.30	**71.2%**	**Pass**
PAD CHECKS				
One-Way Shear (kips):	1064.77	6.99	**0.6%**	**Pass**
Pad Shear - Comp Two-Way (ksi):	0.164	0.000	**0.0%**	**Pass**
*Flexural Two-Way (Comp) (kip*ft):*	8059.26	0.00	**0.0%**	**Pass**
*Pad Flexure (kip*ft):*	4029.63	318.41	**7.5%**	**Pass**

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

Structural Rating:	**71.2%**
Soil Rating:	**99.7%**

Click here to enter group information and pile coordinates

Ultimate Pile Capacities		
Ultimate Compression, Cn:	170	kips
Ultimate Tension, Tn:	170	kips

Per CCIsites Doc. # 2268906

Pile Foundation

Checks the capacity of pile foundation configurations for monopoles or self-support towers with individual foundations in Rev. F, G, and H.

BU #:	876331
Site Name:	New Britain Gravel Pit, CT
Order:	616729, Rev# 0

Tower Type:	Monopole
TIA Revision:	H

Top & Bot. Pad Rein. Different?: ☐

Factored Design Reactions At Base		
Moment, M:	2495	ft-kips
Axial, Pu:	52	kips
Shear, Sc:	32	kips
Load Eccentricity, Ecc:	0	in
Bolt Circle / Bearing Plate Width, BC:	41	in

Pile Properties		
Pile Shape:	Round	
Pile Material:	Steel	
Length of Pile, Lpile:	33	ft
Pile Diameter:	1.375	in
Pile (Soil) Capacity Given?	Yes	
Steel Grade, Fy:	150	ksi
Rebar Quantity, Pquan:		

Pile Group		
Group Configuration:	Asymmetric	
Orientation of Neutral Axis, θ:	0	deg
Group Efficiency Given in Geotech?	No	

Program Calculated Group Efficiency, Eg: 1.00

Pile Cap		
Cap Type:	Block	
Depth to Bottom of Block, D:	4.00	ft
Thickness of Block, T:	6.00	ft
Block Width, Wx:	16.00	ft
Block Length, Wy:	16.00	ft
Pad Rebar Size (Bot.), Spad:	8	
Pad Rebar Quantity (X-direction) (Bot.), Mpad:	17	
Pad Rebar Quantity (Y-direction) (Bot.), $Mpad_y$:	17	

Material Properties		
Rebar Grade, Fy:	60	ksi
Concrete Strength, Fc:	3	ksi
Clear Cover, cc:	3	in

Soil Properties		
Groundwater Depth, GW:	99.00	ft
Soil Unit Weight:	150	pcf
Cohesion, Co:	10	ksf
Friction Angle, ϕ:	0	deg
Neglected Depth, ND:	1	ft
Negative Friction Force (per pile), Sw:		kips
SPT Blow Count, N_{blows}:		

Design Checks				
	Capacity	***Demand***	***Rating****	***Check***
PILE CHECKS				
PAD CHECKS				
One-Way Shear (kips):	1064.77	297.91	**26.6%**	**Pass**
Pad Shear - Comp Two-Way (ksi):	0.164	0.002	**1.1%**	**Pass**
*Flexural Two-Way (Comp) (kip*ft):*	8059.26	0.00	**0.0%**	**Pass**
*Pad Flexure (kip*ft):*	4029.63	2063.95	**48.8%**	**Pass**

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

Structural Rating:	**48.8%**
Soil Rating:	**0.0%**

Click here to enter group information and pile coordinates

Ultimate Pile Capacities		
Ultimate Compression, Cn:	170	kips
Ultimate Tension, Tn:	170	kips

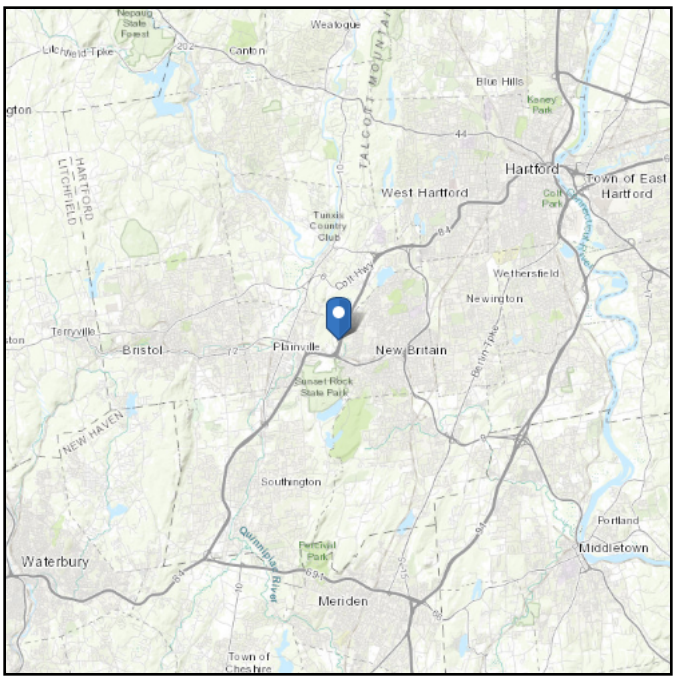
Per CCIsites Doc. # 2268906

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 350.25 ft (NAVD 88)
Latitude: 41.676589
Longitude: -72.821414



Wind

Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Mon May 09 2022

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

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

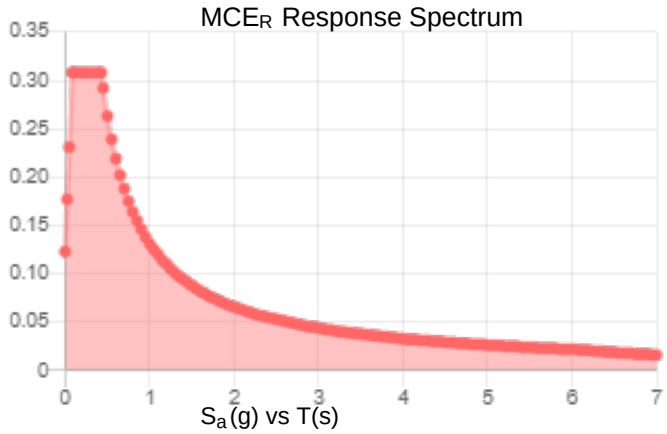
Seismic

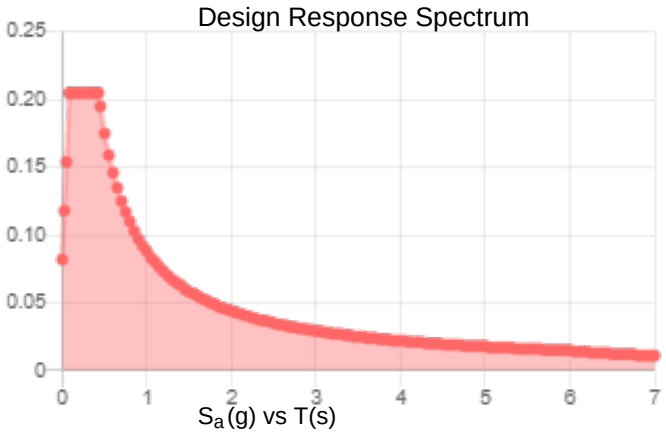
Site Soil Class: D - Default (see Section 11.4.3)

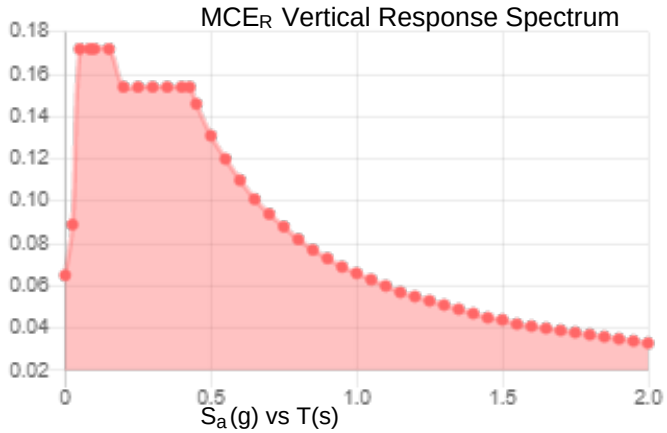
Results:

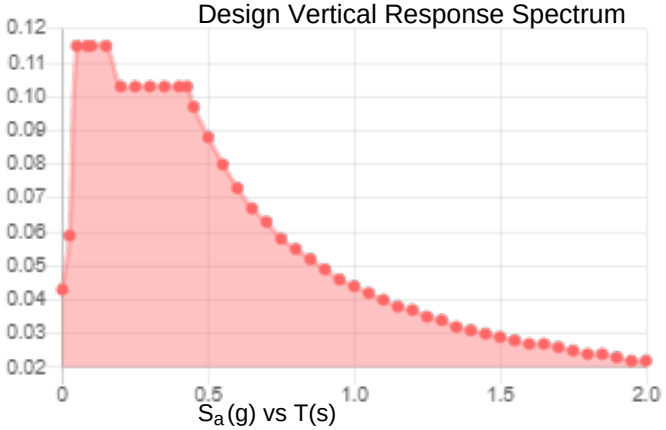
S_S :	0.192	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.105
F_v :	2.4	PGA_M :	0.166
S_{MS} :	0.308	F_{PGA} :	1.591
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.205	C_v :	0.7

Seismic Design Category B









Data Accessed: **Mon May 09 2022**

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Mon May 09 2022

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

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

Exhibit E

Mount Analysis

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

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10070204
Maser Consulting Connecticut Project #: 21777239A

June 11, 2021

Site Information	*Site ID:*	*535831-VZW / NEW BRITAIN NW CT*
	Site Name:	*NEW BRITAIN NW CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*115 North Mountain Road* *New Britain, Connecticut 06053* *Hartford County*
	Latitude:	*41.676590°*
	Longitude:	*-72.821414°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*12.58-Ft Platform*

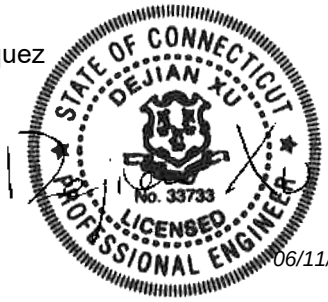
FUZE ID # 16232009

Analysis Results

Platform: **45.8% 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: Abigail Enriquez



06/11/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 674978, dated April 7, 2021*
Mount Mapping Report	*Roaming Networks Inc., Site ID: PSLC:535831, dated March 30, 2021*
Previous Mount Analysis Report	*Maser Consulting Connecticut, Project #: 21777239A, dated May 10, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21777239A, Dated June 11, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	117 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.987
Seismic Parameters:	S_S:	0.192
	S_1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
89.00	90.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		1	Amphenol Antel	BXA-70040-4CF-EDIN-0	Retained
		1	Antel	BXA-70063-4CF	
		1	Antel	BXA-70063-4CF-4	
		1	Raycap	RRFDC-3315-PF-48	

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

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

Standard Conditions:

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

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped 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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	19.7 %	Pass
Platform Crossmember	45.8 %	Pass
Corner Plate	30.7 %	Pass
Grating Support	19.7 %	Pass
Cross Arm Plate	23.8 %	Pass
Face Horizontal	13.6 %	Pass
Mount Pipe	17.6 %	Pass
Dual Antenna Mount Pipe	14.7 %	Pass
MOD Support Rail	10.9 %	Pass
MOD Corner Bracket	13.9 %	Pass
MOD Kicker	10.7 %	Pass
Connection Check	29.6 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**45.8%**

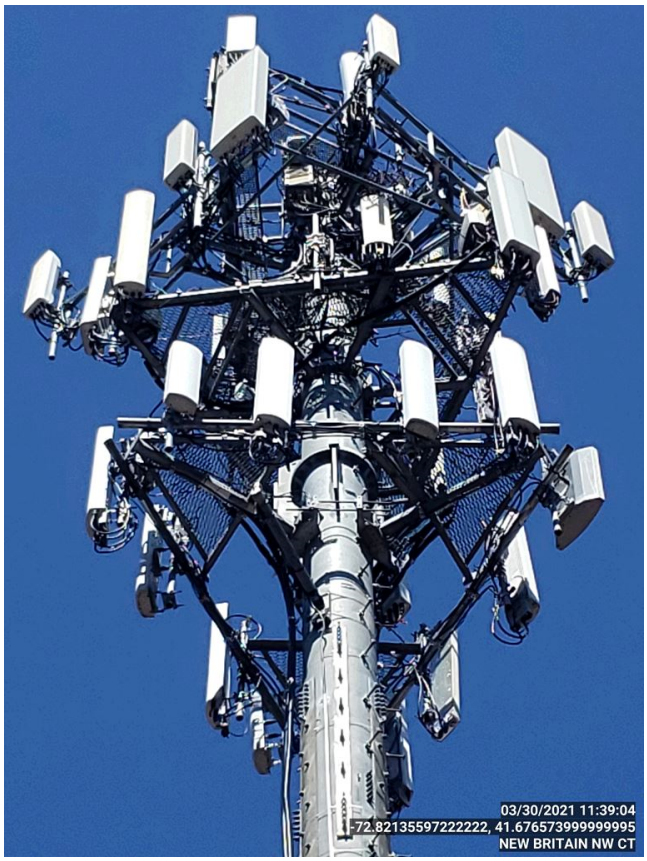
Recommendation:

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

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

Attachments:

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


03/30/2021 11:39:04
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NEW BRITAIN NW CT


03/30/2021 13:35:27
-72.8216446, 41.6765386
NEW BRITAIN NW CT

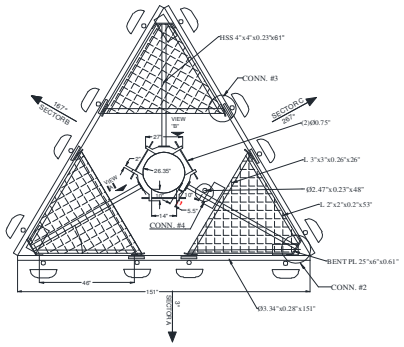
V3.0 Updated on 8-31-2020

PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1012421

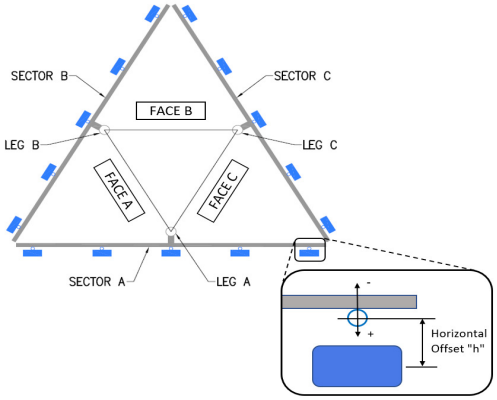
Tower Owner:	CCI	**Mapping Date:**	03/30/2021
Site Name:	CCI: New Britain Gravel Pit, VZW: NEW BRITAIN NW CT	**Tower Type:**	Monopole
Site Number or ID:	PSLC: 535831	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	86.15

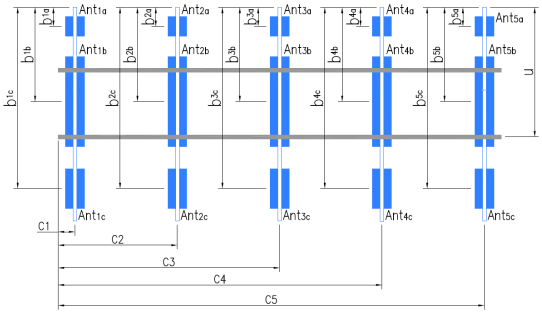


Overall Mount Schematic

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 Ø 2.39"x0.2"x72"	40.00	6.00	C1	PIPE Ø 2.39"x0.2"x72"	40.00	6.00
A2	PIPE Ø 2.39"x0.2"x72"	40.00	50.50	C2	PIPE Ø 2.39"x0.2"x72"	40.00	50.50
A3	PIPE Ø 2.39"x0.2"x72"	40.00	99.00	C3	PIPE Ø 2.39"x0.2"x72"	40.00	99.00
A4	PIPE Ø 2.39"x0.2"x72"	40.00	130.50	C4	PIPE Ø 2.39"x0.2"x72"	40.00	130.50
A5				C5			
A6				C6			
B1	PIPE Ø 2.39"x0.2"x72"	40.00	6.00	D1			
B2	PIPE Ø 2.39"x0.2"x72"	40.00	50.50	D2			
B3	PIPE Ø 2.39"x0.2"x72"	40.00	99.00	D3			
B4	PIPE Ø 2.39"x0.2"x72"	40.00	130.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							10.4
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
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.):				26.35



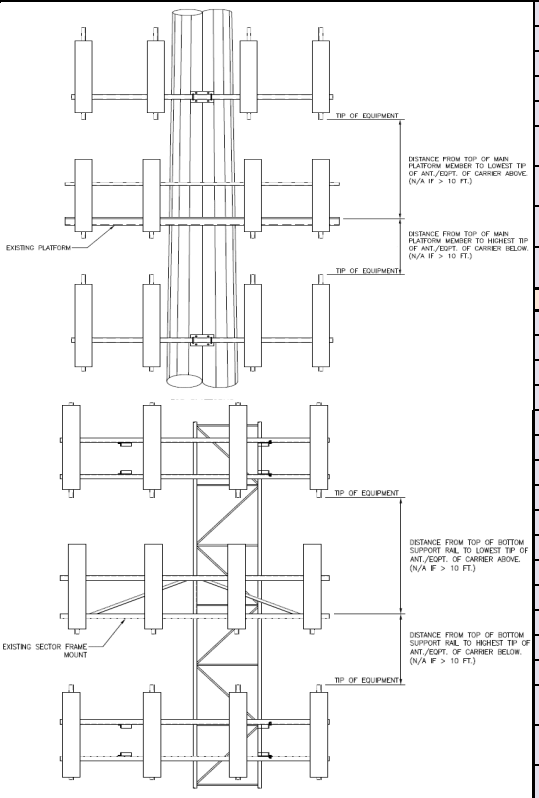


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	HBXX-6517DS-A2M	6.50	3.30	74.90		86.6917	33.50	9.00	3.00	11,14,15
Ant_{1c}	B4 RRH2x60-4R	10.63	5.74	36.60		88.3167	14.00	7.00		12,13
Ant_{2a}										
Ant_{2b}	80010735V01	11.90	3.90	76.10		86.65	34.00	10.50	3.00	16,17,18
Ant_{2c}	RFS	6.75	1.00	4.75		87.8583	19.50	2.75		19,20
Ant_{3a}										
Ant_{3b}	HBXX-6517DS-A2M	6.50	3.30	74.90		87.1917	27.50	8.00	3.00	4,7,8
Ant_{3c}	RFS	6.75	1.00	4.75		88.65	10.00	2.75		5,6
Ant_{4a}										
Ant_{4b}	BXA-70040-4CF-EDIN	24.00	8.00	36.00		87.275	26.50	12.50	3.00	9,10
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.30	28.93						190,191
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	3.00	Deg	Leg A:		Deg
Sector B:	167.00	Deg	Leg B:		Deg
Sector C:	267.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	167.00 Deg	Sector B
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Missing safety cable.



Sector B										
Ant_{1a}										
Ant_{1b}	HBXX-6517DS-A2M	6.50	3.30	74.90		86.6917	33.50	9.00	167.00	11,14,15
Ant_{1c}	B4 RRH2x60-4R	10.63	5.74	36.60		88.3167	14.00	7.00		12,13
Ant_{2a}										
Ant_{2b}	80010735V01	11.90	3.90	76.10		86.65	34.00	10.50	167.00	16,17,18
Ant_{2c}	RFS	6.75	1.00	4.75		87.8583	19.50	2.75		19,20
Ant_{3a}										
Ant_{3b}	HBXX-6517DS-A2M	6.50	3.30	74.90		87.1917	27.50	8.00	167.00	4,7,8
Ant_{3c}	RFS	6.75	1.00	4.75		88.65	10.00	2.75		5,6
Ant_{4a}										
Ant_{4b}	Unknown	12.00	4.00	50.00		89.4833			167.00	163
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	HBXX-6517DS-A2M	6.50	3.30	74.90		86.6917	33.50	9.00	267.00	11,14,15
Ant_{1c}	B4 RRH2x60-4R	10.63	5.74	36.60		88.3167	14.00	7.00		12,13
Ant_{2a}										
Ant_{2b}	80010735V01	11.90	3.90	76.10		86.65	34.00	10.50	267.00	16,17,18
Ant_{2c}	RFS	6.75	1.00	4.75		87.8583	19.50	2.75		19,20
Ant_{3a}										
Ant_{3b}	HBXX-6517DS-A2M	6.50	3.30	74.90		87.1917	27.50	8.00	267.00	4,7,8
Ant_{3c}	RFS	6.75	1.00	4.75		88.65	10.00	2.75		5,6
Ant_{4a}										
Ant_{4b}	Unknown	12.00	4.00	50.00		89.4833			267.00	173
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.

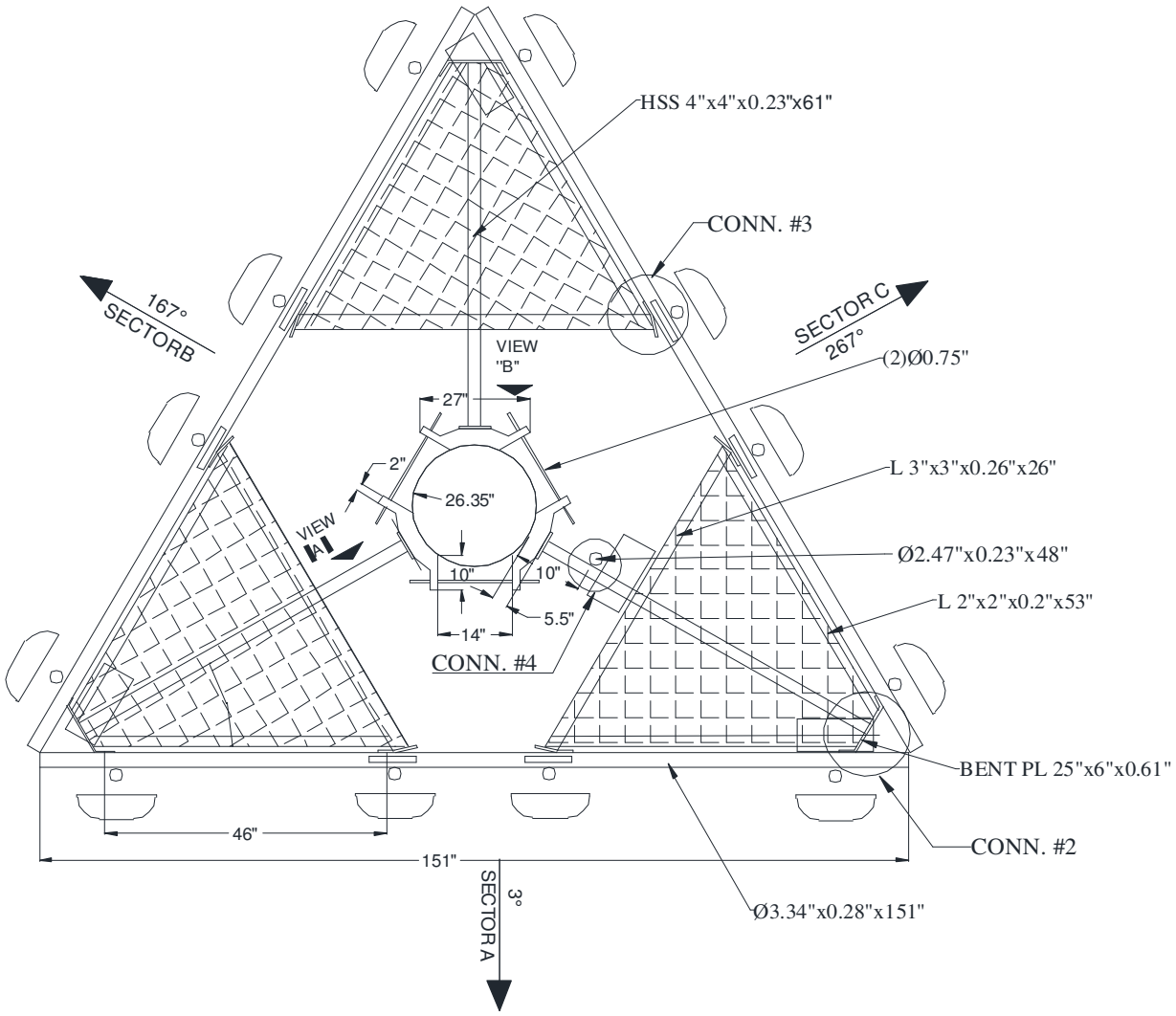
PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1012421

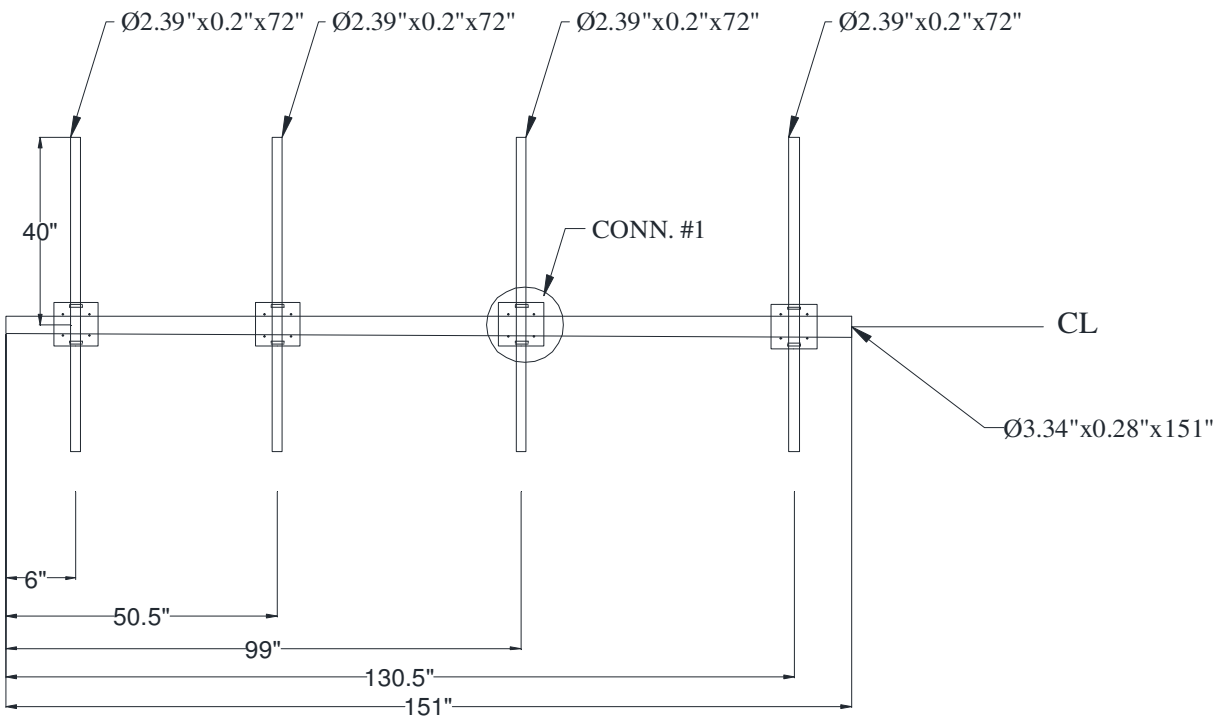
Tower Owner:	CCI	**Mapping Date:**	03/30/2021
Site Name:	CCI: New Britain Gravel Pit, VZW: NEW BRITAIN NW CT	**Tower Type:**	Monopole
Site Number or ID:	PSLC: 535831	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	86.15

Please Insert Sketches of the Antenna Mount



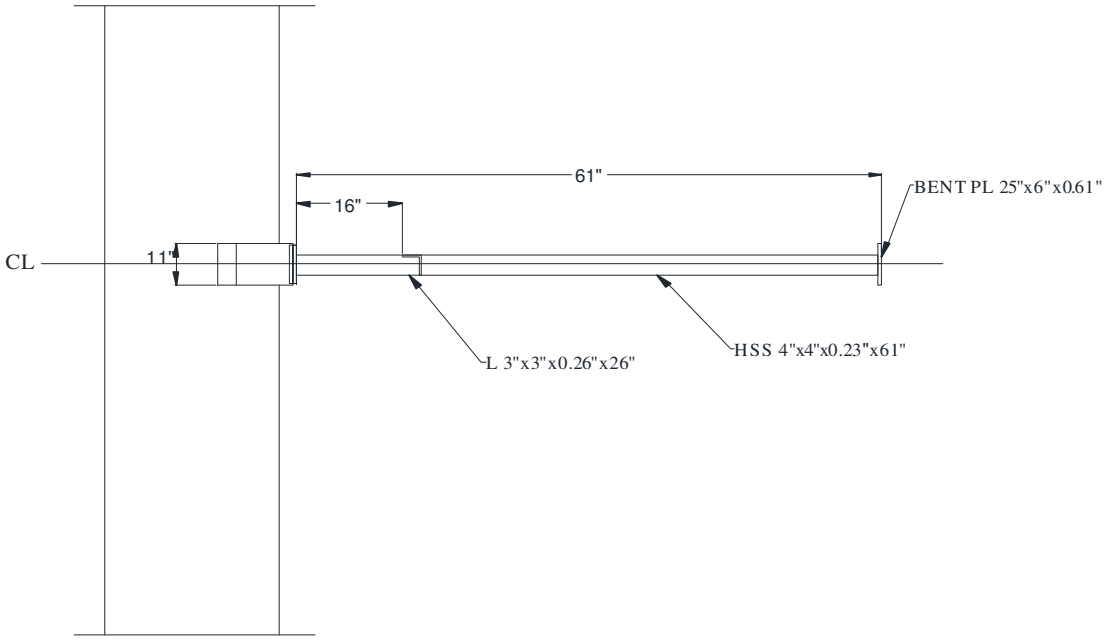
Overall Mount Schematic

Please Insert Sketches of the Antenna Mount, cont'd

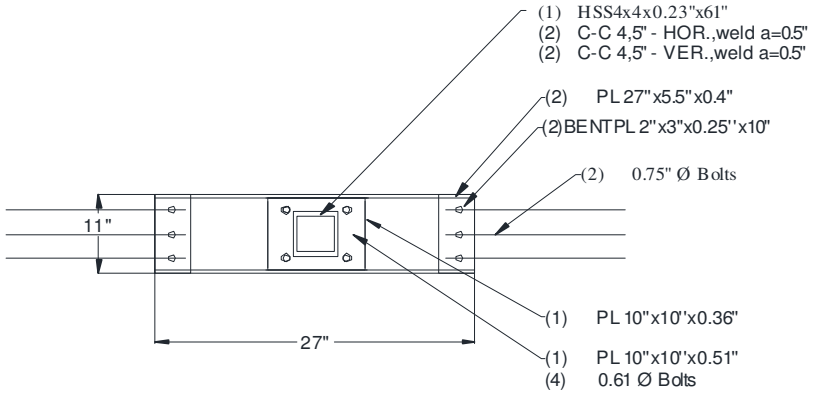


SECTOR A, B, C

Please Insert Sketches of the Antenna Mount, cont'd

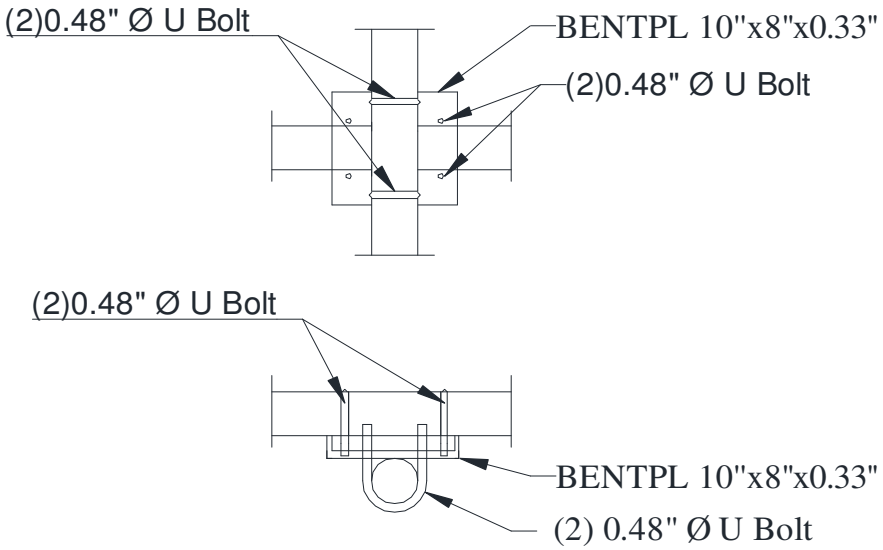


VIEW "A"

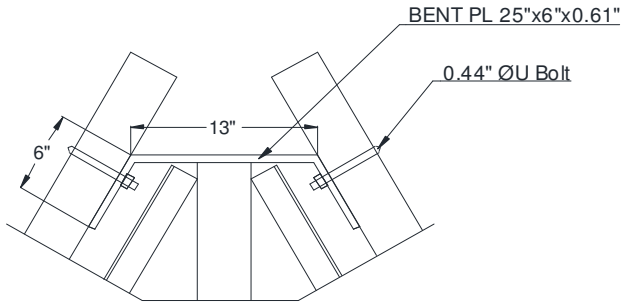


VIEW "B"

Please Insert Sketches of the Antenna Mount, cont'd

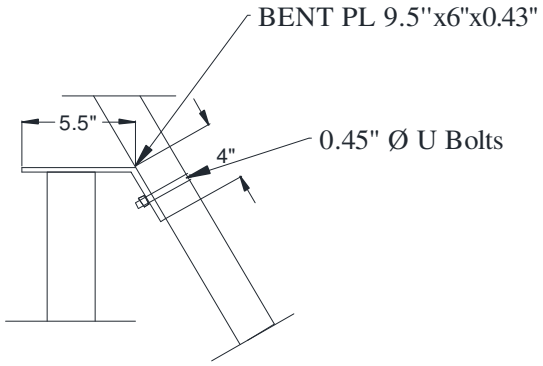


CONN. #1

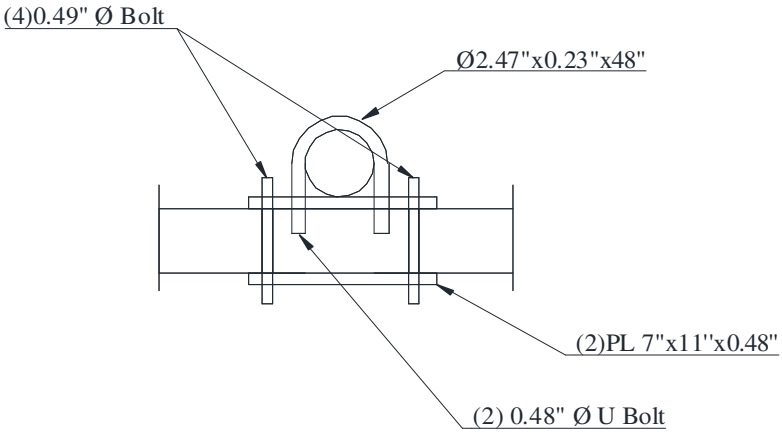


CONN. #2

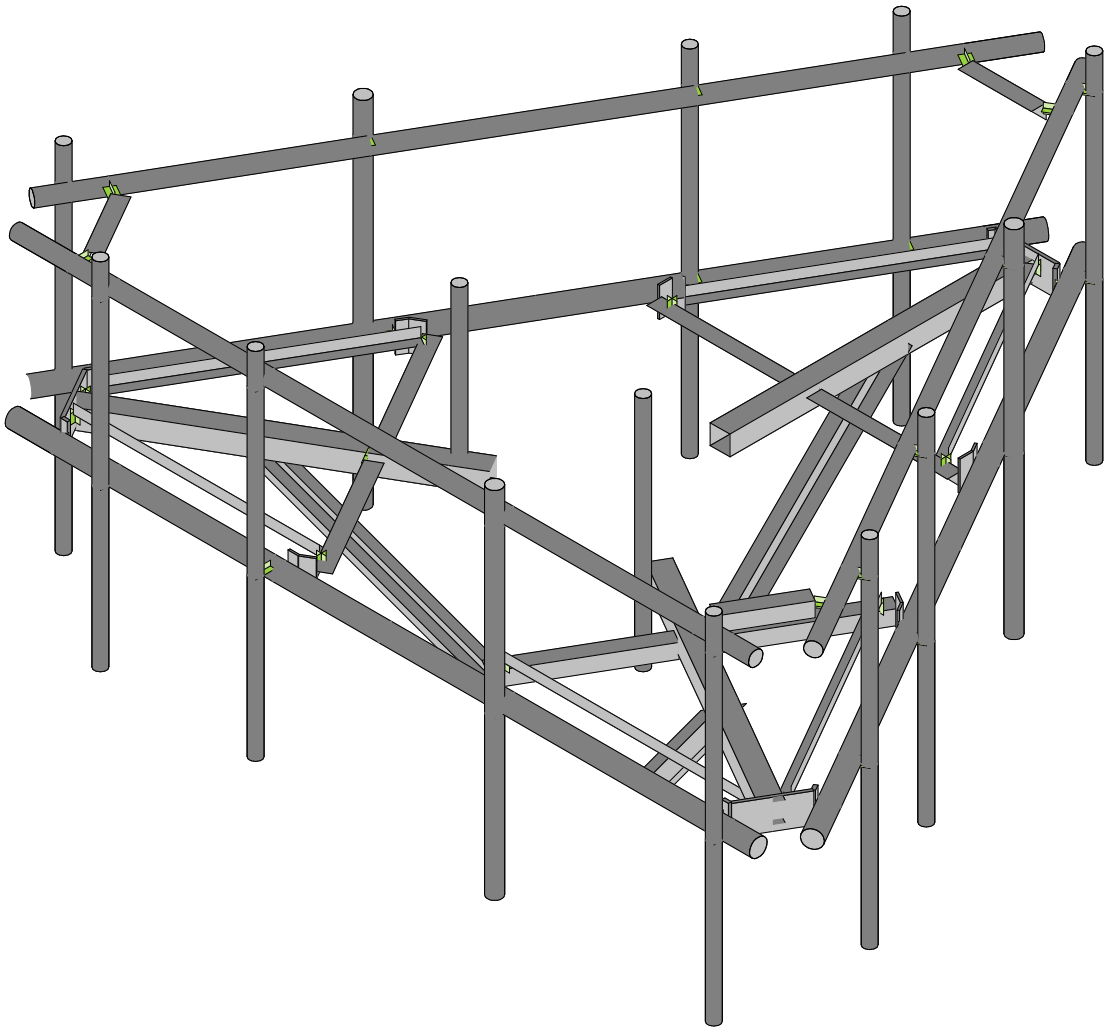
Please Insert Sketches of the Antenna Mount, cont'd



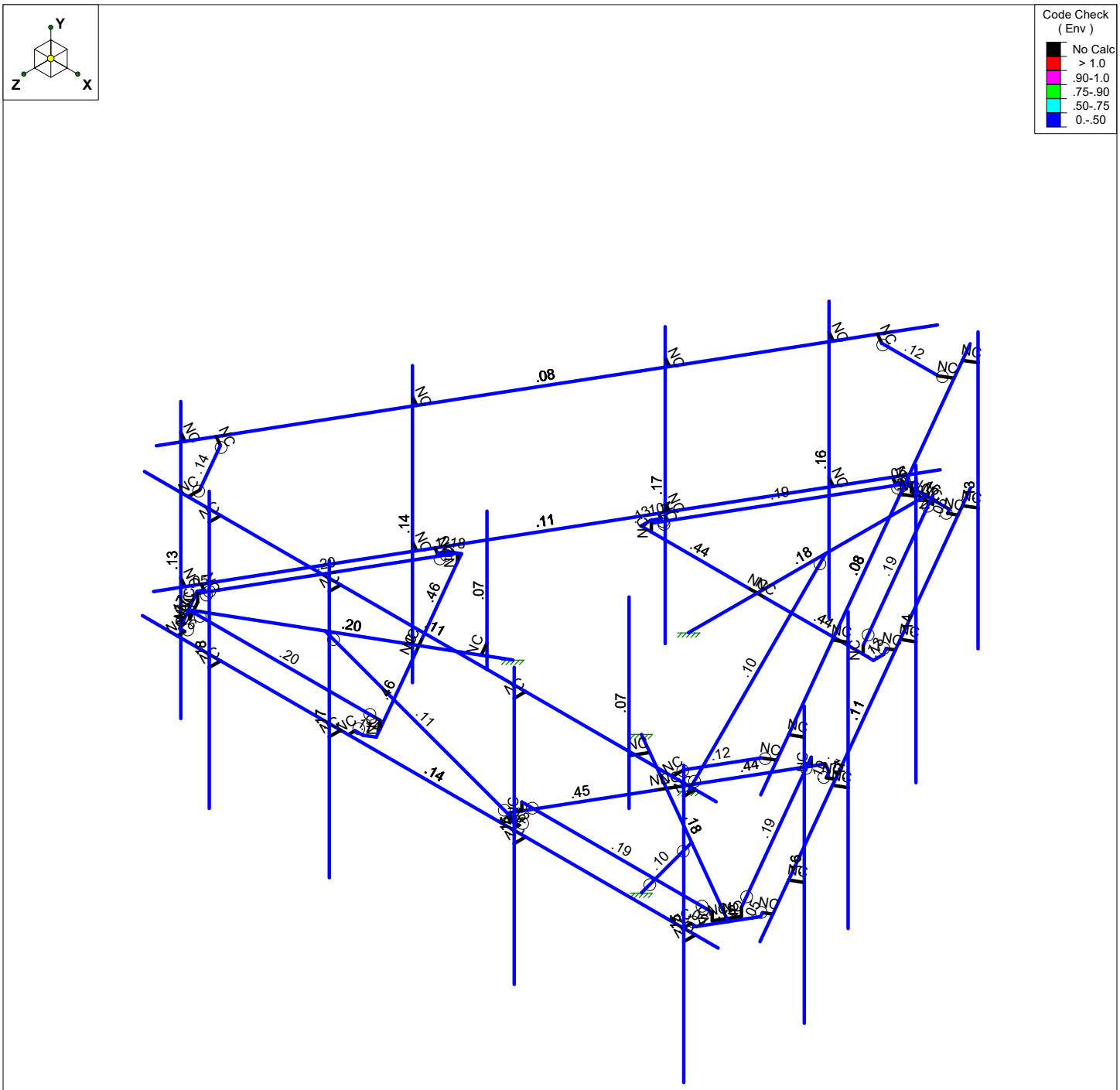
CONN. #3



CONN. #4

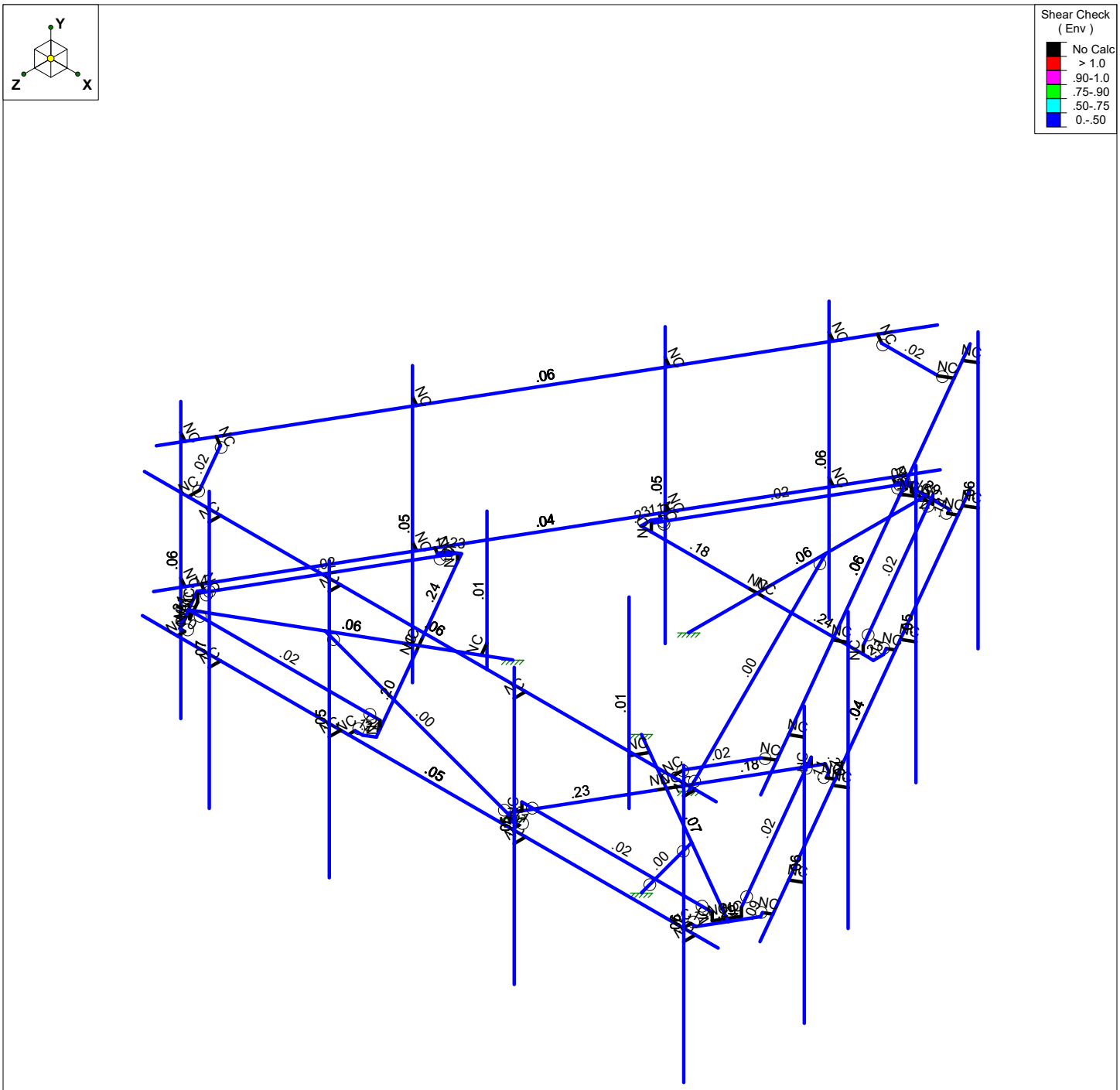


Maser Consulting	535831-VZW_MT_LO_H	SK - 1
AJH		June 10, 2021 at 9:24 AM
		FINAL_535831-VZW_MT_LO_H.r3d



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

Maser Consulting	535831-VZW_MT_LO_H	SK - 2
AJH		June 10, 2021 at 9:24 AM
		FINAL_535831-VZW_MT_LO_H.r3d



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

Maser Consulting	535831-VZW_MT_LO_H	SK - 3
AJH		June 10, 2021 at 9:24 AM
		FINAL_535831-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					3	
40	Structure Di	None						62	3	
41	Structure Wo (0 Deg)	None						124		
42	Structure Wo (30 Deg)	None						124		
43	Structure Wo (60 Deg)	None						124		
44	Structure Wo (90 Deg)	None						124		
45	Structure Wo (120 D...	None						124		
46	Structure Wo (150 D...	None						124		
47	Structure Wo (180 D...	None						124		
48	Structure Wo (210 D...	None						124		
49	Structure Wo (240 D...	None						124		
50	Structure Wo (270 D...	None						124		
51	Structure Wo (300 D...	None						124		
52	Structure Wo (330 D...	None						124		
53	Structure Wi (0 Deg)	None						124		
54	Structure Wi (30 Deg)	None						124		
55	Structure Wi (60 Deg)	None						124		
56	Structure Wi (90 Deg)	None						124		

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						124		
58	Structure Wi (150 De...	None						124		
59	Structure Wi (180 De...	None						124		
60	Structure Wi (210 De...	None						124		
61	Structure Wi (240 De...	None						124		
62	Structure Wi (270 De...	None						124		
63	Structure Wi (300 De...	None						124		
64	Structure Wi (330 De...	None						124		
65	Structure Wm (0 Deg)	None						124		
66	Structure Wm (30 De...	None						124		
67	Structure Wm (60 De...	None						124		
68	Structure Wm (90 De...	None						124		
69	Structure Wm (120 D...	None						124		
70	Structure Wm (150 D...	None						124		
71	Structure Wm (180 D...	None						124		
72	Structure Wm (210 D...	None						124		
73	Structure Wm (240 D...	None						124		
74	Structure Wm (270 D...	None						124		
75	Structure Wm (300 D...	None						124		
76	Structure Wm (330 D...	None						124		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1														
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1														
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1														
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1														
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1														
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1														
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1														
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1														
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1														
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1														
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1														
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1														
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0Wi (150 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0Wi (180 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0Wi (210 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										
21	1.2D + 1.0Di + 1.0Wi (240 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1										
22	1.2D + 1.0Di + 1.0Wi (270 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1										
23	1.2D + 1.0Di + 1.0Wi (300 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1										
24	1.2D + 1.0Di + 1.0Wi (330 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1										
25	1.2D + 1.5Lm1 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1												
26	1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1												

Load Combinations (Continued)

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
27	1.2D + 1.5Lm1 + 1.0Wm (60...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (90...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (12...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (15...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (18...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (21...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (24...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (27...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (33...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (60...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (90...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (12...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (15...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (18...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (21...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (24...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (27...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (33...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1.0Eh (30 D...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...										
55	1.2D + 1.0Ev + 1.0Eh (60 D...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1.0Eh (90 D...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1.0Eh (120 ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1.0Eh (150 ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1.0Eh (180 ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1.0Eh (210 ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1.0Eh (240 ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1.0Eh (270 ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1.0Eh (300 ...		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1.0Eh (330 ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	-0.	0	-1.625	0	
2	N5	-2.541667	0	-3.125	0	
3	N6	2.315104	0.166667	-3.125	0	
4	N7	-2.315104	0.166667	-3.125	0	
5	N24	-0.	0	-3.125	0	
6	N27	-0.	0	-6.8125	0	
7	CP	0	0	0	0	
8	N29	2.315104	0	-3.125	0	
9	N30	-2.315104	0	-3.125	0	
10	N101	2.541667	0	-3.125	0	
11	N102	-0.166667	0	-3.125	0	
12	N103A	0.166667	0	-3.125	0	
13	N104A	-2.541667	0	-3.34375	0	
14	N105	2.541667	0	-3.34375	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N131	2.458333	0	-3.488088	0	
16	N135	0.571615	0	-6.715523	0	
17	N144	-2.458333	0	-3.488088	0	
18	N148	-0.571615	0	-6.715523	0	
19	N86A	2.584629	0	-3.561004	0	
20	N86B	-2.584629	0	-3.561004	0	
21	N86C	-0.515625	0	-6.8125	0	
22	N87A	0.515625	0	-6.8125	0	
23	N86D	0.715429	0	-6.798554	0	
24	N86E	-0.715429	0	-6.798554	0	
25	N88A	-0.	0	-6.729167	0	
26	N87C	0.234238	0.166667	-6.729167	0	
27	N86G	0.234238	0	-6.729167	0	
28	N87B	-0.234238	0.166667	-6.729167	0	
29	N88C	-0.234238	0	-6.729167	0	
30	N30A	-1.407291	0	0.8125	0	
31	N31	-1.435496	0	3.763648	0	
32	N32	-3.863881	0.166667	-0.442439	0	
33	N33	-1.548777	0.166667	3.567439	0	
34	N34	-2.706329	0	1.5625	0	
35	N35	-5.899798	0	3.40625	0	
36	N37	-3.863881	0	-0.442439	0	
37	N38	-1.548777	0	3.567439	0	
38	N39	-3.977163	0	-0.638648	0	
39	N40	-2.622996	0	1.706838	0	
40	N41	-2.789663	0	1.418162	0	
41	N42	-1.624939	0	3.873023	0	
42	N43	-4.166606	0	-0.529273	0	
43	N44	-4.249939	0	-0.384935	0	
44	N45	-6.101621	0	2.862729	0	
45	N46	-1.791606	0	3.873023	0	
46	N47	-5.530006	0	3.852794	0	
47	N48	-4.376235	0	-0.457852	0	
48	N49	-1.791606	0	4.018857	0	
49	N50	-5.641986	0	3.852794	0	
50	N51	-6.157611	0	2.959706	0	
51	N52	-6.245435	0	2.779698	0	
52	N53	-5.530006	0	4.018857	0	
53	N54	-5.827629	0	3.364583	0	
54	N55	-5.944748	0.166667	3.161728	0	
55	N56	-5.944748	0	3.161728	0	
56	N57	-5.71051	0.166667	3.567439	0	
57	N58	-5.71051	0	3.567439	0	
58	N59	1.407291	0	0.8125	0	
59	N60	3.977163	0	-0.638648	0	
60	N61	1.548777	0.166667	3.567439	0	
61	N62	3.863881	0.166667	-0.442439	0	
62	N63	2.706329	0	1.5625	0	
63	N64	5.899798	0	3.40625	0	
64	N66	1.548777	0	3.567439	0	
65	N67	3.863881	0	-0.442439	0	
66	N68	1.435496	0	3.763648	0	
67	N69	2.789663	0	1.418162	0	
68	N70	2.622996	0	1.706838	0	
69	N71	4.166606	0	-0.529273	0	
70	N72	1.624939	0	3.873023	0	
71	N73	1.791606	0	3.873023	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N74	5.530006	0	3.852794	0	
73	N75	4.249939	0	-0.384935	0	
74	N76	6.101621	0	2.862729	0	
75	N77	1.791606	0	4.018857	0	
76	N78	4.376235	0	-0.457852	0	
77	N79	6.157611	0	2.959706	0	
78	N80	5.641986	0	3.852794	0	
79	N81	5.530006	0	4.018857	0	
80	N82	6.245435	0	2.779698	0	
81	N83	5.827629	0	3.364583	0	
82	N84	5.71051	0.166667	3.567439	0	
83	N85	5.71051	0	3.567439	0	
84	N86	5.944748	0.166667	3.161728	0	
85	N87	5.944748	0	3.161728	0	
86	N86F	0.	0	4.018857	0	
87	N87D	6.291667	0	4.018857	0	
88	N88	-6.291667	0	4.018857	0	
89	N90	3.480432	0	-2.009428	0	
90	N91	0.334599	0	-7.458171	0	
91	N92	6.626265	0	3.439315	0	
92	N94	-3.480432	0	-2.009428	0	
93	N95	-6.626265	0	3.439315	0	
94	N96	-0.334599	0	-7.458171	0	
95	N95A	5.791667	0	4.018857	0	
96	N96A	5.791667	0	4.268857	0	
97	N97	5.791667	3.333333	4.268857	0	
98	N98	5.791667	-2.666667	4.268857	0	
99	N99	2.083333	0	4.018857	0	
100	N100	2.083333	0	4.268857	0	
101	N101A	2.083333	3.333333	4.268857	0	
102	N102A	2.083333	-2.666667	4.268857	0	
103	N103	-1.958333	0	4.018857	0	
104	N104	-1.958333	0	4.268857	0	
105	N105A	-1.958333	3.333333	4.268857	0	
106	N106	-1.958333	-2.666667	4.268857	0	
107	N107	-4.583333	0	4.018857	0	
108	N108	-4.583333	0	4.268857	0	
109	N109	-4.583333	3.333333	4.268857	0	
110	N110	-4.583333	-2.666667	4.268857	0	
111	N112	0.584599	0	-7.025159	0	
112	N113	0.801105	0	-7.150159	0	
113	N114	0.801105	3.333333	-7.150159	0	
114	N115	0.801105	-2.666667	-7.150159	0	
115	N116	2.438765	0	-3.813648	0	
116	N117	2.655272	0	-3.938648	0	
117	N118	2.655272	3.333333	-3.938648	0	
118	N119	2.655272	-2.666667	-3.938648	0	
119	N120	4.459599	0	-0.313462	0	
120	N121	4.676105	0	-0.438462	0	
121	N122	4.676105	3.333333	-0.438462	0	
122	N123	4.676105	-2.666667	-0.438462	0	
123	N124	5.772099	0	1.959855	0	
124	N125	5.988605	0	1.834855	0	
125	N126	5.988605	3.333333	1.834855	0	
126	N127	5.988605	-2.666667	1.834855	0	
127	N129	-6.376265	0	3.006302	0	
128	N130	-6.592772	0	2.881302	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N131A	-6.592772	3.333333	2.881302	0	
130	N132	-6.592772	-2.666667	2.881302	0	
131	N133	-4.522099	0	-0.205209	0	
132	N134	-4.738605	0	-0.330209	0	
133	N135A	-4.738605	3.333333	-0.330209	0	
134	N136	-4.738605	-2.666667	-0.330209	0	
135	N137	-2.501265	0	-3.705395	0	
136	N138	-2.717772	0	-3.830395	0	
137	N139	-2.717772	3.333333	-3.830395	0	
138	N140	-2.717772	-2.666667	-3.830395	0	
139	N141	-1.188765	0	-5.978711	0	
140	N142	-1.405272	0	-6.103711	0	
141	N143	-1.405272	3.333333	-6.103711	0	
142	N144A	-1.405272	-2.666667	-6.103711	0	
143	N143A	-1.840304	0	1.0625	0	
144	N144B	-2.006971	0	0.773825	0	
145	N145	-2.006971	-.5	0.773825	0	
146	N146	-2.006971	2.5	0.773825	0	
147	N148A	1.840304	0	1.0625	0	
148	N149	1.673637	0	1.351175	0	
149	N150	1.673637	-1	1.351175	0	
150	N151	1.673637	3	1.351175	0	
151	N151A	6.250167	2.75	4.018857	0	
152	N152	-6.250167	2.75	4.018857	0	
153	N153	5.791667	2.75	4.018857	0	
154	N154	5.791667	2.75	4.268857	0	
155	N155	2.083333	2.75	4.018857	0	
156	N156	2.083333	2.75	4.268857	0	
157	N157	-1.958333	2.75	4.018857	0	
158	N158	-1.958333	2.75	4.268857	0	
159	N159	-4.583333	2.75	4.018857	0	
160	N160	-4.583333	2.75	4.268857	0	
161	N161	5.291667	2.75	4.018857	0	
162	N162	-5.291667	2.75	4.018857	0	
163	N163	5.291667	2.75	3.768857	0	
164	N164	-5.291667	2.75	3.768857	0	
165	N167	0.584599	2.75	-7.025159	0	
166	N168	0.801105	2.75	-7.150159	0	
167	N169	2.438765	2.75	-3.813648	0	
168	N170	2.655272	2.75	-3.938648	0	
169	N171	4.459599	2.75	-0.313462	0	
170	N172	4.676105	2.75	-0.438462	0	
171	N173	5.772099	2.75	1.959855	0	
172	N174	5.988605	2.75	1.834855	0	
173	N175	0.834599	2.75	-6.592146	0	
174	N176	6.126265	2.75	2.573289	0	
175	N177	0.618092	2.75	-6.467146	0	
176	N178	5.909759	2.75	2.698289	0	
177	N181	-6.376265	2.75	3.006302	0	
178	N182	-6.592772	2.75	2.881302	0	
179	N183	-4.522099	2.75	-0.205209	0	
180	N184	-4.738605	2.75	-0.330209	0	
181	N185	-2.501265	2.75	-3.705395	0	
182	N186	-2.717772	2.75	-3.830395	0	
183	N187	-1.188765	2.75	-5.978711	0	
184	N188	-1.405272	2.75	-6.103711	0	
185	N189	-6.126265	2.75	2.573289	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N190	-0.834599	2.75	-6.592146	0	
187	N191	-5.909759	2.75	2.698289	0	
188	N192	-0.618092	2.75	-6.467146	0	
189	N193	-0.	-3	-1.625	0	
190	N194	-0.	0	-4.625	0	
191	N195	-1.407291	-3	0.8125	0	
192	N196	-4.005367	0	2.3125	0	
193	N197	1.407291	-3	0.8125	0	
194	N198	4.005367	0	2.3125	0	
195	N195A	0.355349	2.75	-7.422231	0	
196	N196A	6.605515	2.75	3.403375	0	
197	N197A	-6.605515	2.75	3.403375	0	
198	N198A	-0.355349	2.75	-7.422231	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube A1085	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL5/8x6	Beam	RECT	A36 Gr.36	Typical	3.75	.122	11.25	.456
4	Platform Crossmem...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Beam	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Dual Antenna Moun...	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	MOD Support Rail	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
10	MOD Corner Bracket	L3X3X4	Column	Pipe	A36 Gr.36	Typical	1.44	1.23	1.23	.031
11	MOD Kicker	LL3x3x3x6	Column	Pipe	A36 Gr.36	Typical	2.18	4.97	1.9	.027

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M4	N3	N27			Standoff Horiz...	Beam	SquareTube A...	A500 Gr.B...	Typical
2	M10	N101	N103A		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
3	M43	N102	N5		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
4	M46	N86C	N87A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
5	M35A	N7	N30			RIGID	None	None	RIGID	Typical
6	M36A	N6	N29			RIGID	None	None	RIGID	Typical
7	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
10	M58	N102	N24			RIGID	None	None	RIGID	Typical
11	M59	N24	N103A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
12	M76	N101	N105			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
13	M77	N105	N131			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
14	M79	N131	N86A			RIGID	None	None	RIGID	Typical
15	M80	N87A	N135			Corner Plate	Beam	RECT	A36 Gr.36	Typical
16	M83	N135	N86D			RIGID	None	None	RIGID	Typical
17	M84	N5	N104A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
18	M85	N104A	N144			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
19	M88	N144	N86B			RIGID	None	None	RIGID	Typical
20	M91	N86C	N148			Corner Plate	Beam	RECT	A36 Gr.36	Typical
21	M92	N148	N86E			RIGID	None	None	RIGID	Typical
22	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
23	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
24	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
25	M25	N30A	N35			Standoff Horiz...	Beam	SquareTube A...	A500 Gr.B...	Typical
26	M26	N39	N41		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
27	M27	N40	N31		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
28	M28	N50	N51			Corner Plate	Beam	RECT	A36 Gr.36	Typical
29	M29	N33	N38			RIGID	None	None	RIGID	Typical
30	M30	N32	N37			RIGID	None	None	RIGID	Typical
31	M31	N55	N32			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M32	N33	N57			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M33	N57	N58			RIGID	None	None	RIGID	Typical
34	M34	N40	N34			RIGID	None	None	RIGID	Typical
35	M35	N34	N41			RIGID	None	None	RIGID	Typical
36	M36	N39	N43			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
37	M37	N43	N44			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
38	M38	N44	N48			RIGID	None	None	RIGID	Typical
39	M39	N51	N45			Corner Plate	Beam	RECT	A36 Gr.36	Typical
40	M40	N45	N52			RIGID	None	None	RIGID	Typical
41	M41	N31	N42			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
42	M42	N42	N46			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
43	M43A	N46	N49			RIGID	None	None	RIGID	Typical
44	M44	N50	N47			Corner Plate	Beam	RECT	A36 Gr.36	Typical
45	M45	N47	N53			RIGID	None	None	RIGID	Typical
46	M46A	N58	N54			RIGID	None	None	RIGID	Typical
47	M47	N54	N56			RIGID	None	None	RIGID	Typical
48	M48	N55	N56			RIGID	None	None	RIGID	Typical
49	M49	N59	N64			Standoff Horiz...	Beam	SquareTube A...	A500 Gr.B...	Typical
50	M50A	N68	N70		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
51	M51C	N69	N60		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
52	M52A	N79	N80			Corner Plate	Beam	RECT	A36 Gr.36	Typical
53	M53	N62	N67			RIGID	None	None	RIGID	Typical
54	M54	N61	N66			RIGID	None	None	RIGID	Typical
55	M55	N84	N61			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M56	N62	N86			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M57	N86	N87			RIGID	None	None	RIGID	Typical
58	M58A	N69	N63			RIGID	None	None	RIGID	Typical
59	M59A	N63	N70			RIGID	None	None	RIGID	Typical
60	M60	N68	N72			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
61	M61	N72	N73			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
62	M62	N73	N77			RIGID	None	None	RIGID	Typical
63	M63	N80	N74			Corner Plate	Beam	RECT	A36 Gr.36	Typical
64	M64	N74	N81			RIGID	None	None	RIGID	Typical
65	M65	N60	N71			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
66	M66	N71	N75			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
67	M67	N75	N78			RIGID	None	None	RIGID	Typical
68	M68	N79	N76			Corner Plate	Beam	RECT	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
69	M69	N76	N82			RIGID	None	None	RIGID	Typical
70	M70	N87	N83			RIGID	None	None	RIGID	Typical
71	M71	N83	N85			RIGID	None	None	RIGID	Typical
72	M72	N84	N85			RIGID	None	None	RIGID	Typical
73	M73	N88	N87D			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M74	N92	N91			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
75	M75	N96	N95			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M76A	N95A	N96A			RIGID	None	None	RIGID	Typical
77	MP1A	N97	N98			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
78	M78	N99	N100			RIGID	None	None	RIGID	Typical
79	MP2A	N101A	N102A			Dual Antenna ...	Column	Pipe	A53 Gr.B	Typical
80	M80A	N103	N104			RIGID	None	None	RIGID	Typical
81	MP3A	N105A	N106			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M82	N107	N108			RIGID	None	None	RIGID	Typical
83	MP4A	N109	N110			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	M84A	N112	N113			RIGID	None	None	RIGID	Typical
85	MP1C	N114	N115			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
86	M86	N116	N117			RIGID	None	None	RIGID	Typical
87	MP2C	N118	N119			Dual Antenna ...	Column	Pipe	A53 Gr.B	Typical
88	M88A	N120	N121			RIGID	None	None	RIGID	Typical
89	MP3C	N122	N123			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	M90	N124	N125			RIGID	None	None	RIGID	Typical
91	MP4C	N126	N127			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	M92A	N129	N130			RIGID	None	None	RIGID	Typical
93	MP1B	N131A	N132			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M94	N133	N134			RIGID	None	None	RIGID	Typical
95	MP2B	N135A	N136			Dual Antenna ...	Column	Pipe	A53 Gr.B	Typical
96	M96	N137	N138			RIGID	None	None	RIGID	Typical
97	MP3B	N139	N140			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	M98	N141	N142			RIGID	None	None	RIGID	Typical
99	MP4B	N143	N144A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N143A	N144B			RIGID	None	None	RIGID	Typical
101	M101	N146	N145			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
102	M102	N148A	N149			RIGID	None	None	RIGID	Typical
103	M103	N151	N150			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
104	M104	N152	N151A			MOD Support ...	Column	Pipe	A53 Gr.B	Typical
105	M105	N153	N154			RIGID	None	None	RIGID	Typical
106	M106	N155	N156			RIGID	None	None	RIGID	Typical
107	M107	N157	N158			RIGID	None	None	RIGID	Typical
108	M108	N159	N160			RIGID	None	None	RIGID	Typical
109	M109	N163	N161			RIGID	None	None	RIGID	Typical
110	M110	N164	N162			RIGID	None	None	RIGID	Typical
111	M112	N167	N168			RIGID	None	None	RIGID	Typical
112	M113	N169	N170			RIGID	None	None	RIGID	Typical
113	M114	N171	N172			RIGID	None	None	RIGID	Typical
114	M115	N173	N174			RIGID	None	None	RIGID	Typical
115	M116	N177	N175			RIGID	None	None	RIGID	Typical
116	M117	N178	N176			RIGID	None	None	RIGID	Typical
117	M119	N181	N182			RIGID	None	None	RIGID	Typical
118	M120	N183	N184			RIGID	None	None	RIGID	Typical
119	M121	N185	N186			RIGID	None	None	RIGID	Typical
120	M122	N187	N188			RIGID	None	None	RIGID	Typical
121	M123	N191	N189			RIGID	None	None	RIGID	Typical
122	M124	N192	N190			RIGID	None	None	RIGID	Typical
123	M125	N191	N164		180	MOD Corner B...	Column	Pipe	A36 Gr.36	Typical
124	M126	N163	N178		180	MOD Corner B...	Column	Pipe	A36 Gr.36	Typical
125	M127	N177	N192		180	MOD Corner B...	Column	Pipe	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
126	M128	N193	N194			MOD Kicker	Column	Pipe	A36 Gr.36	Typical
127	M129	N195	N196			MOD Kicker	Column	Pipe	A36 Gr.36	Typical
128	M130	N197	N198			MOD Kicker	Column	Pipe	A36 Gr.36	Typical
129	M129A	N196A	N195A			MOD Support ...	Column	Pipe	A53 Gr.B	Typical
130	M130A	N198A	N197A			MOD Support ...	Column	Pipe	A53 Gr.B	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M4	Standoff Ho...	5.188			Lbyy						Lateral
2	M10	Platform Cr...	2.375			Lbyy						Lateral
3	M43	Platform Cr...	2.375			Lbyy						Lateral
4	M46	Corner Plate	1.031			Lbyy						Lateral
5	M51B	Grating Sup...	4.162			Lbyy						Lateral
6	M52B	Grating Sup...	4.162			Lbyy						Lateral
7	M76	Cross Arm ...	.219									Lateral
8	M77	Cross Arm ...	.167									Lateral
9	M80	Corner Plate	.112			Lbyy						Lateral
10	M84	Cross Arm ...	.219									Lateral
11	M85	Cross Arm ...	.167									Lateral
12	M91	Corner Plate	.112			Lbyy						Lateral
13	M25	Standoff Ho...	5.187			Lbyy						Lateral
14	M26	Platform Cr...	2.375			Lbyy						Lateral
15	M27	Platform Cr...	2.375			Lbyy						Lateral
16	M28	Corner Plate	1.031			Lbyy						Lateral
17	M31	Grating Sup...	4.162			Lbyy						Lateral
18	M32	Grating Sup...	4.162			Lbyy						Lateral
19	M36	Cross Arm ...	.219									Lateral
20	M37	Cross Arm ...	.167									Lateral
21	M39	Corner Plate	.112			Lbyy						Lateral
22	M41	Cross Arm ...	.219									Lateral
23	M42	Cross Arm ...	.167									Lateral
24	M44	Corner Plate	.112			Lbyy						Lateral
25	M49	Standoff Ho...	5.187			Lbyy						Lateral
26	M50A	Platform Cr...	2.375			Lbyy						Lateral
27	M51C	Platform Cr...	2.375			Lbyy						Lateral
28	M52A	Corner Plate	1.031			Lbyy						Lateral
29	M55	Grating Sup...	4.162			Lbyy						Lateral
30	M56	Grating Sup...	4.162			Lbyy						Lateral
31	M60	Cross Arm ...	.219									Lateral
32	M61	Cross Arm ...	.167									Lateral
33	M63	Corner Plate	.112			Lbyy						Lateral
34	M65	Cross Arm ...	.219									Lateral
35	M66	Cross Arm ...	.167									Lateral
36	M68	Corner Plate	.112			Lbyy						Lateral
37	M73	Face Horizo...	12.583			Lbyy						Lateral
38	M74	Face Horizo...	12.583			Lbyy						Lateral
39	M75	Face Horizo...	12.583			Lbyy						Lateral
40	MP1A	Mount Pipe	6									Lateral
41	MP2A	Dual Antenn...	6									Lateral
42	MP3A	Mount Pipe	6									Lateral
43	MP4A	Mount Pipe	6									Lateral
44	MP1C	Mount Pipe	6									Lateral
45	MP2C	Dual Antenn...	6									Lateral
46	MP3C	Mount Pipe	6									Lateral
47	MP4C	Mount Pipe	6									Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
48	MP1B	Mount Pipe	6									Lateral
49	MP2B	Dual Antenn...	6									Lateral
50	MP3B	Mount Pipe	6									Lateral
51	MP4B	Mount Pipe	6									Lateral
52	M101	Mount Pipe	3									Lateral
53	M103	Mount Pipe	4									Lateral
54	M104	MOD Supp...	12.5			Lbyy						Lateral
55	M125	MOD Corne...	1.236									Lateral
56	M126	MOD Corne...	1.236									Lateral
57	M127	MOD Corne...	1.236									Lateral
58	M128	MOD Kicker	4.243									Lateral
59	M129	MOD Kicker	4.243									Lateral
60	M130	MOD Kicker	4.243									Lateral
61	M129A	MOD Supp...	12.5			Lbyy						Lateral
62	M130A	MOD Supp...	12.5			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.5
2	MP2A	My	-.011	.5
3	MP2A	Mz	.013	.5
4	MP2A	Y	-21.85	4.5
5	MP2A	My	-.011	4.5
6	MP2A	Mz	.013	4.5
7	MP2B	Y	-21.85	.5
8	MP2B	My	-.009	.5
9	MP2B	Mz	-.014	.5
10	MP2B	Y	-21.85	4.5
11	MP2B	My	-.009	4.5
12	MP2B	Mz	-.014	4.5
13	MP2C	Y	-21.85	.5
14	MP2C	My	.017	.5
15	MP2C	Mz	-.001	.5
16	MP2C	Y	-21.85	4.5
17	MP2C	My	.017	4.5
18	MP2C	Mz	-.001	4.5
19	MP2A	Y	-21.85	.5
20	MP2A	My	-.011	.5
21	MP2A	Mz	-.013	.5
22	MP2A	Y	-21.85	4.5
23	MP2A	My	-.011	4.5
24	MP2A	Mz	-.013	4.5
25	MP2B	Y	-21.85	.5
26	MP2B	My	.015	.5
27	MP2B	Mz	-.007	.5
28	MP2B	Y	-21.85	4.5
29	MP2B	My	.015	4.5
30	MP2B	Mz	-.007	4.5
31	MP2C	Y	-21.85	.5
32	MP2C	My	-.001	.5
33	MP2C	Mz	.017	.5
34	MP2C	Y	-21.85	4.5
35	MP2C	My	-.001	4.5
36	MP2C	Mz	.017	4.5
37	MP1A	Y	-43.55	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP1A	My	-.022	1.5
39	MP1A	Mz	0	1.5
40	MP1A	Y	-43.55	3.5
41	MP1A	My	-.022	3.5
42	MP1A	Mz	0	3.5
43	MP1B	Y	-43.55	1.5
44	MP1B	My	.006	1.5
45	MP1B	Mz	-.021	1.5
46	MP1B	Y	-43.55	3.5
47	MP1B	My	.006	3.5
48	MP1B	Mz	-.021	3.5
49	MP1C	Y	-43.55	1.5
50	MP1C	My	.015	1.5
51	MP1C	Mz	.015	1.5
52	MP1C	Y	-43.55	3.5
53	MP1C	My	.015	3.5
54	MP1C	Mz	.015	3.5
55	MP2A	Y	-84.4	2
56	MP2A	My	.042	2
57	MP2A	Mz	0	2
58	MP2B	Y	-84.4	2
59	MP2B	My	-.011	2
60	MP2B	Mz	.041	2
61	MP2C	Y	-84.4	2
62	MP2C	My	-.03	2
63	MP2C	Mz	-.03	2
64	MP3A	Y	-70.3	2
65	MP3A	My	.035	2
66	MP3A	Mz	0	2
67	MP3B	Y	-70.3	2
68	MP3B	My	-.009	2
69	MP3B	Mz	.034	2
70	MP3C	Y	-70.3	2
71	MP3C	My	-.025	2
72	MP3C	Mz	-.025	2
73	M101	Y	-32	1.5
74	M101	My	0	1.5
75	M101	Mz	0	1.5
76	MP4A	Y	-12.5	1
77	MP4A	My	-.006	1
78	MP4A	Mz	0	1
79	MP4A	Y	-12.5	4
80	MP4A	My	-.006	4
81	MP4A	Mz	0	4
82	MP4C	Y	-4.95	1
83	MP4C	My	.002	1
84	MP4C	Mz	.002	1
85	MP4C	Y	-4.95	4
86	MP4C	My	.002	4
87	MP4C	Mz	.002	4
88	MP4B	Y	-4.95	1
89	MP4B	My	.000641	1
90	MP4B	Mz	-.002	1
91	MP4B	Y	-4.95	4
92	MP4B	My	.000641	4
93	MP4B	Mz	-.002	4
94	M103	Y	-26.9	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	M103	My	0	1.5
96	M103	Mz	0	1.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-90.991	.5
2	MP2A	My	-.045	.5
3	MP2A	Mz	.053	.5
4	MP2A	Y	-90.991	4.5
5	MP2A	My	-.045	4.5
6	MP2A	Mz	.053	4.5
7	MP2B	Y	-90.991	.5
8	MP2B	My	-.039	.5
9	MP2B	Mz	-.058	.5
10	MP2B	Y	-90.991	4.5
11	MP2B	My	-.039	4.5
12	MP2B	Mz	-.058	4.5
13	MP2C	Y	-90.991	.5
14	MP2C	My	.07	.5
15	MP2C	Mz	-.005	.5
16	MP2C	Y	-90.991	4.5
17	MP2C	My	.07	4.5
18	MP2C	Mz	-.005	4.5
19	MP2A	Y	-90.991	.5
20	MP2A	My	-.045	.5
21	MP2A	Mz	-.053	.5
22	MP2A	Y	-90.991	4.5
23	MP2A	My	-.045	4.5
24	MP2A	Mz	-.053	4.5
25	MP2B	Y	-90.991	.5
26	MP2B	My	.063	.5
27	MP2B	Mz	-.03	.5
28	MP2B	Y	-90.991	4.5
29	MP2B	My	.063	4.5
30	MP2B	Mz	-.03	4.5
31	MP2C	Y	-90.991	.5
32	MP2C	My	-.005	.5
33	MP2C	Mz	.07	.5
34	MP2C	Y	-90.991	4.5
35	MP2C	My	-.005	4.5
36	MP2C	Mz	.07	4.5
37	MP1A	Y	-53.681	1.5
38	MP1A	My	-.027	1.5
39	MP1A	Mz	0	1.5
40	MP1A	Y	-53.681	3.5
41	MP1A	My	-.027	3.5
42	MP1A	Mz	0	3.5
43	MP1B	Y	-53.681	1.5
44	MP1B	My	.007	1.5
45	MP1B	Mz	-.026	1.5
46	MP1B	Y	-53.681	3.5
47	MP1B	My	.007	3.5
48	MP1B	Mz	-.026	3.5
49	MP1C	Y	-53.681	1.5
50	MP1C	My	.019	1.5
51	MP1C	Mz	.019	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP1C	Y	-53.681	3.5
53	MP1C	My	.019	3.5
54	MP1C	Mz	.019	3.5
55	MP2A	Y	-68.156	2
56	MP2A	My	.034	2
57	MP2A	Mz	0	2
58	MP2B	Y	-68.156	2
59	MP2B	My	-.009	2
60	MP2B	Mz	.033	2
61	MP2C	Y	-68.156	2
62	MP2C	My	-.024	2
63	MP2C	Mz	-.024	2
64	MP3A	Y	-61.506	2
65	MP3A	My	.031	2
66	MP3A	Mz	0	2
67	MP3B	Y	-61.506	2
68	MP3B	My	-.008	2
69	MP3B	Mz	.03	2
70	MP3C	Y	-61.506	2
71	MP3C	My	-.022	2
72	MP3C	Mz	-.022	2
73	M101	Y	-113.987	1.5
74	M101	My	0	1.5
75	M101	Mz	0	1.5
76	MP4A	Y	-102.606	1
77	MP4A	My	-.051	1
78	MP4A	Mz	0	1
79	MP4A	Y	-102.606	4
80	MP4A	My	-.051	4
81	MP4A	Mz	0	4
82	MP4C	Y	-53.419	1
83	MP4C	My	.019	1
84	MP4C	Mz	.019	1
85	MP4C	Y	-53.419	4
86	MP4C	My	.019	4
87	MP4C	Mz	.019	4
88	MP4B	Y	-53.419	1
89	MP4B	My	.007	1
90	MP4B	Mz	-.026	1
91	MP4B	Y	-53.419	4
92	MP4B	My	.007	4
93	MP4B	Mz	-.026	4
94	M103	Y	-83.492	1.5
95	M103	My	0	1.5
96	M103	Mz	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-114.249	.5
3	MP2A	Mx	-.067	.5
4	MP2A	X	0	4.5
5	MP2A	Z	-114.249	4.5
6	MP2A	Mx	-.067	4.5
7	MP2B	X	0	.5
8	MP2B	Z	-78.123	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2B	Mx	.05	.5
10	MP2B	X	0	4.5
11	MP2B	Z	-78.123	4.5
12	MP2B	Mx	.05	4.5
13	MP2C	X	0	.5
14	MP2C	Z	-94.889	.5
15	MP2C	Mx	.006	.5
16	MP2C	X	0	4.5
17	MP2C	Z	-94.889	4.5
18	MP2C	Mx	.006	4.5
19	MP2A	X	0	.5
20	MP2A	Z	-114.249	.5
21	MP2A	Mx	.067	.5
22	MP2A	X	0	4.5
23	MP2A	Z	-114.249	4.5
24	MP2A	Mx	.067	4.5
25	MP2B	X	0	.5
26	MP2B	Z	-78.123	.5
27	MP2B	Mx	.026	.5
28	MP2B	X	0	4.5
29	MP2B	Z	-78.123	4.5
30	MP2B	Mx	.026	4.5
31	MP2C	X	0	.5
32	MP2C	Z	-94.889	.5
33	MP2C	Mx	-.073	.5
34	MP2C	X	0	4.5
35	MP2C	Z	-94.889	4.5
36	MP2C	Mx	-.073	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	-66.457	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-66.457	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-28.727	1.5
45	MP1B	Mx	.014	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-28.727	3.5
48	MP1B	Mx	.014	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-46.237	1.5
51	MP1C	Mx	-.016	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-46.237	3.5
54	MP1C	Mx	-.016	3.5
55	MP2A	X	0	2
56	MP2A	Z	-52.882	2
57	MP2A	Mx	0	2
58	MP2B	X	0	2
59	MP2B	Z	-36.524	2
60	MP2B	Mx	-.018	2
61	MP2C	X	0	2
62	MP2C	Z	-44.116	2
63	MP2C	Mx	.016	2
64	MP3A	X	0	2
65	MP3A	Z	-52.882	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	-30.257	2
69	MP3B	Mx	-.015	2
70	MP3C	X	0	2
71	MP3C	Z	-40.758	2
72	MP3C	Mx	.014	2
73	M101	X	0	1.5
74	M101	Z	-104.752	1.5
75	M101	Mx	0	1.5
76	MP4A	X	0	1
77	MP4A	Z	-133.761	1
78	MP4A	Mx	0	1
79	MP4A	X	0	4
80	MP4A	Z	-133.761	4
81	MP4A	Mx	0	4
82	MP4C	X	0	1
83	MP4C	Z	-50.622	1
84	MP4C	Mx	-.018	1
85	MP4C	X	0	4
86	MP4C	Z	-50.622	4
87	MP4C	Mx	-.018	4
88	MP4B	X	0	1
89	MP4B	Z	-36.663	1
90	MP4B	Mx	.018	1
91	MP4B	X	0	4
92	MP4B	Z	-36.663	4
93	MP4B	Mx	.018	4
94	M103	X	0	1.5
95	M103	Z	-69.038	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	52.284	.5
2	MP2A	Z	-90.559	.5
3	MP2A	Mx	-.079	.5
4	MP2A	X	52.284	4.5
5	MP2A	Z	-90.559	4.5
6	MP2A	Mx	-.079	4.5
7	MP2B	X	39.062	.5
8	MP2B	Z	-67.657	.5
9	MP2B	Mx	.026	.5
10	MP2B	X	39.062	4.5
11	MP2B	Z	-67.657	4.5
12	MP2B	Mx	.026	4.5
13	MP2C	X	55.828	.5
14	MP2C	Z	-96.696	.5
15	MP2C	Mx	.048	.5
16	MP2C	X	55.828	4.5
17	MP2C	Z	-96.696	4.5
18	MP2C	Mx	.048	4.5
19	MP2A	X	52.284	.5
20	MP2A	Z	-90.559	.5
21	MP2A	Mx	.027	.5
22	MP2A	X	52.284	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	-90.559	4.5
24	MP2A	Mx	.027	4.5
25	MP2B	X	39.062	.5
26	MP2B	Z	-67.657	.5
27	MP2B	Mx	.05	.5
28	MP2B	X	39.062	4.5
29	MP2B	Z	-67.657	4.5
30	MP2B	Mx	.05	4.5
31	MP2C	X	55.828	.5
32	MP2C	Z	-96.696	.5
33	MP2C	Mx	-.077	.5
34	MP2C	X	55.828	4.5
35	MP2C	Z	-96.696	4.5
36	MP2C	Mx	-.077	4.5
37	MP1A	X	28.173	1.5
38	MP1A	Z	-48.798	1.5
39	MP1A	Mx	-.014	1.5
40	MP1A	X	28.173	3.5
41	MP1A	Z	-48.798	3.5
42	MP1A	Mx	-.014	3.5
43	MP1B	X	14.363	1.5
44	MP1B	Z	-24.878	1.5
45	MP1B	Mx	.014	1.5
46	MP1B	X	14.363	3.5
47	MP1B	Z	-24.878	3.5
48	MP1B	Mx	.014	3.5
49	MP1C	X	31.874	1.5
50	MP1C	Z	-55.207	1.5
51	MP1C	Mx	-.008	1.5
52	MP1C	X	31.874	3.5
53	MP1C	Z	-55.207	3.5
54	MP1C	Mx	-.008	3.5
55	MP2A	X	24.25	2
56	MP2A	Z	-42.001	2
57	MP2A	Mx	.012	2
58	MP2B	X	18.262	2
59	MP2B	Z	-31.63	2
60	MP2B	Mx	-.018	2
61	MP2C	X	25.854	2
62	MP2C	Z	-44.78	2
63	MP2C	Mx	.007	2
64	MP3A	X	23.41	2
65	MP3A	Z	-40.547	2
66	MP3A	Mx	.012	2
67	MP3B	X	15.129	2
68	MP3B	Z	-26.204	2
69	MP3B	Mx	-.015	2
70	MP3C	X	25.629	2
71	MP3C	Z	-44.391	2
72	MP3C	Mx	.007	2
73	M101	X	44.531	1.5
74	M101	Z	-77.129	1.5
75	M101	Mx	0	1.5
76	MP4A	X	56.407	1
77	MP4A	Z	-97.699	1
78	MP4A	Mx	-.028	1
79	MP4A	X	56.407	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP4A	Z	-97.699	4
81	MP4A	Mx	-.028	4
82	MP4C	X	32.29	1
83	MP4C	Z	-55.928	1
84	MP4C	Mx	-.008	1
85	MP4C	X	32.29	4
86	MP4C	Z	-55.928	4
87	MP4C	Mx	-.008	4
88	MP4B	X	18.332	1
89	MP4B	Z	-31.751	1
90	MP4B	Mx	.018	1
91	MP4B	X	18.332	4
92	MP4B	Z	-31.751	4
93	MP4B	Mx	.018	4
94	M103	X	29.153	1.5
95	M103	Z	-50.494	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	73.793	.5
2	MP2A	Z	-42.605	.5
3	MP2A	Mx	-.062	.5
4	MP2A	X	73.793	4.5
5	MP2A	Z	-42.605	4.5
6	MP2A	Mx	-.062	4.5
7	MP2B	X	82.176	.5
8	MP2B	Z	-47.445	.5
9	MP2B	Mx	-.006	.5
10	MP2B	X	82.176	4.5
11	MP2B	Z	-47.445	4.5
12	MP2B	Mx	-.006	4.5
13	MP2C	X	96.696	.5
14	MP2C	Z	-55.828	.5
15	MP2C	Mx	.077	.5
16	MP2C	X	96.696	4.5
17	MP2C	Z	-55.828	4.5
18	MP2C	Mx	.077	4.5
19	MP2A	X	73.793	.5
20	MP2A	Z	-42.605	.5
21	MP2A	Mx	-.012	.5
22	MP2A	X	73.793	4.5
23	MP2A	Z	-42.605	4.5
24	MP2A	Mx	-.012	4.5
25	MP2B	X	82.176	.5
26	MP2B	Z	-47.445	.5
27	MP2B	Mx	.073	.5
28	MP2B	X	82.176	4.5
29	MP2B	Z	-47.445	4.5
30	MP2B	Mx	.073	4.5
31	MP2C	X	96.696	.5
32	MP2C	Z	-55.828	.5
33	MP2C	Mx	-.048	.5
34	MP2C	X	96.696	4.5
35	MP2C	Z	-55.828	4.5
36	MP2C	Mx	-.048	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP1A	X	31.287	1.5
38	MP1A	Z	-18.064	1.5
39	MP1A	Mx	-.016	1.5
40	MP1A	X	31.287	3.5
41	MP1A	Z	-18.064	3.5
42	MP1A	Mx	-.016	3.5
43	MP1B	X	40.042	1.5
44	MP1B	Z	-23.119	1.5
45	MP1B	Mx	.016	1.5
46	MP1B	X	40.042	3.5
47	MP1B	Z	-23.119	3.5
48	MP1B	Mx	.016	3.5
49	MP1C	X	55.207	1.5
50	MP1C	Z	-31.874	1.5
51	MP1C	Mx	.008	1.5
52	MP1C	X	55.207	3.5
53	MP1C	Z	-31.874	3.5
54	MP1C	Mx	.008	3.5
55	MP2A	X	34.409	2
56	MP2A	Z	-19.866	2
57	MP2A	Mx	.017	2
58	MP2B	X	38.205	2
59	MP2B	Z	-22.058	2
60	MP2B	Mx	-.016	2
61	MP2C	X	44.78	2
62	MP2C	Z	-25.854	2
63	MP2C	Mx	-.007	2
64	MP3A	X	30.047	2
65	MP3A	Z	-17.348	2
66	MP3A	Mx	.015	2
67	MP3B	X	35.297	2
68	MP3B	Z	-20.379	2
69	MP3B	Mx	-.014	2
70	MP3C	X	44.391	2
71	MP3C	Z	-25.629	2
72	MP3C	Mx	-.007	2
73	M101	X	63.541	1.5
74	M101	Z	-36.686	1.5
75	M101	Mx	0	1.5
76	MP4A	X	61.416	1
77	MP4A	Z	-35.458	1
78	MP4A	Mx	-.031	1
79	MP4A	X	61.416	4
80	MP4A	Z	-35.458	4
81	MP4A	Mx	-.031	4
82	MP4C	X	55.928	1
83	MP4C	Z	-32.29	1
84	MP4C	Mx	.008	1
85	MP4C	X	55.928	4
86	MP4C	Z	-32.29	4
87	MP4C	Mx	.008	4
88	MP4B	X	43.84	1
89	MP4B	Z	-25.311	1
90	MP4B	Mx	.018	1
91	MP4B	X	43.84	4
92	MP4B	Z	-25.311	4
93	MP4B	Mx	.018	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	M103	X	41.199	1.5
95	M103	Z	-23.786	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	75.53	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.038	.5
4	MP2A	X	75.53	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	-.038	4.5
7	MP2B	X	111.655	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.048	.5
10	MP2B	X	111.655	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	-.048	4.5
13	MP2C	X	94.889	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.073	.5
16	MP2C	X	94.889	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	.073	4.5
19	MP2A	X	75.53	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.038	.5
22	MP2A	X	75.53	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	-.038	4.5
25	MP2B	X	111.655	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.077	.5
28	MP2B	X	111.655	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	.077	4.5
31	MP2C	X	94.889	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	94.889	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	-.006	4.5
37	MP1A	X	26.018	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.013	1.5
40	MP1A	X	26.018	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.013	3.5
43	MP1B	X	63.748	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.008	1.5
46	MP1B	X	63.748	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.008	3.5
49	MP1C	X	46.237	1.5
50	MP1C	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP1C	Mx	.016	1.5
52	MP1C	X	46.237	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.016	3.5
55	MP2A	X	35.349	2
56	MP2A	Z	0	2
57	MP2A	Mx	.018	2
58	MP2B	X	51.708	2
59	MP2B	Z	0	2
60	MP2B	Mx	-.007	2
61	MP2C	X	44.116	2
62	MP2C	Z	0	2
63	MP2C	Mx	-.016	2
64	MP3A	X	28.633	2
65	MP3A	Z	0	2
66	MP3A	Mx	.014	2
67	MP3B	X	51.258	2
68	MP3B	Z	0	2
69	MP3B	Mx	-.007	2
70	MP3C	X	40.758	2
71	MP3C	Z	0	2
72	MP3C	Mx	-.014	2
73	M101	X	73.371	1.5
74	M101	Z	0	1.5
75	M101	Mx	0	1.5
76	MP4A	X	49.968	1
77	MP4A	Z	0	1
78	MP4A	Mx	-.025	1
79	MP4A	X	49.968	4
80	MP4A	Z	0	4
81	MP4A	Mx	-.025	4
82	MP4C	X	50.622	1
83	MP4C	Z	0	1
84	MP4C	Mx	.018	1
85	MP4C	X	50.622	4
86	MP4C	Z	0	4
87	MP4C	Mx	.018	4
88	MP4B	X	64.58	1
89	MP4B	Z	0	1
90	MP4B	Mx	.008	1
91	MP4B	X	64.58	4
92	MP4B	Z	0	4
93	MP4B	Mx	.008	4
94	M103	X	47.572	1.5
95	M103	Z	0	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	73.793	.5
2	MP2A	Z	42.605	.5
3	MP2A	Mx	-.012	.5
4	MP2A	X	73.793	4.5
5	MP2A	Z	42.605	4.5
6	MP2A	Mx	-.012	4.5
7	MP2B	X	96.696	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2B	Z	55.828	.5
9	MP2B	Mx	-.077	.5
10	MP2B	X	96.696	4.5
11	MP2B	Z	55.828	4.5
12	MP2B	Mx	-.077	4.5
13	MP2C	X	67.657	.5
14	MP2C	Z	39.062	.5
15	MP2C	Mx	.05	.5
16	MP2C	X	67.657	4.5
17	MP2C	Z	39.062	4.5
18	MP2C	Mx	.05	4.5
19	MP2A	X	73.793	.5
20	MP2A	Z	42.605	.5
21	MP2A	Mx	-.062	.5
22	MP2A	X	73.793	4.5
23	MP2A	Z	42.605	4.5
24	MP2A	Mx	-.062	4.5
25	MP2B	X	96.696	.5
26	MP2B	Z	55.828	.5
27	MP2B	Mx	.048	.5
28	MP2B	X	96.696	4.5
29	MP2B	Z	55.828	4.5
30	MP2B	Mx	.048	4.5
31	MP2C	X	67.657	.5
32	MP2C	Z	39.062	.5
33	MP2C	Mx	.026	.5
34	MP2C	X	67.657	4.5
35	MP2C	Z	39.062	4.5
36	MP2C	Mx	.026	4.5
37	MP1A	X	31.287	1.5
38	MP1A	Z	18.064	1.5
39	MP1A	Mx	-.016	1.5
40	MP1A	X	31.287	3.5
41	MP1A	Z	18.064	3.5
42	MP1A	Mx	-.016	3.5
43	MP1B	X	55.207	1.5
44	MP1B	Z	31.874	1.5
45	MP1B	Mx	-.008	1.5
46	MP1B	X	55.207	3.5
47	MP1B	Z	31.874	3.5
48	MP1B	Mx	-.008	3.5
49	MP1C	X	24.878	1.5
50	MP1C	Z	14.363	1.5
51	MP1C	Mx	.014	1.5
52	MP1C	X	24.878	3.5
53	MP1C	Z	14.363	3.5
54	MP1C	Mx	.014	3.5
55	MP2A	X	34.409	2
56	MP2A	Z	19.866	2
57	MP2A	Mx	.017	2
58	MP2B	X	44.78	2
59	MP2B	Z	25.854	2
60	MP2B	Mx	.007	2
61	MP2C	X	31.63	2
62	MP2C	Z	18.262	2
63	MP2C	Mx	-.018	2
64	MP3A	X	30.047	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP3A	Z	17.348	2
66	MP3A	Mx	.015	2
67	MP3B	X	44.391	2
68	MP3B	Z	25.629	2
69	MP3B	Mx	.007	2
70	MP3C	X	26.204	2
71	MP3C	Z	15.129	2
72	MP3C	Mx	-.015	2
73	M101	X	77.129	1.5
74	M101	Z	44.531	1.5
75	M101	Mx	0	1.5
76	MP4A	X	61.416	1
77	MP4A	Z	35.458	1
78	MP4A	Mx	-.031	1
79	MP4A	X	61.416	4
80	MP4A	Z	35.458	4
81	MP4A	Mx	-.031	4
82	MP4C	X	31.751	1
83	MP4C	Z	18.332	1
84	MP4C	Mx	.018	1
85	MP4C	X	31.751	4
86	MP4C	Z	18.332	4
87	MP4C	Mx	.018	4
88	MP4B	X	55.928	1
89	MP4B	Z	32.29	1
90	MP4B	Mx	-.008	1
91	MP4B	X	55.928	4
92	MP4B	Z	32.29	4
93	MP4B	Mx	-.008	4
94	M103	X	50.494	1.5
95	M103	Z	29.153	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	52.284	.5
2	MP2A	Z	90.559	.5
3	MP2A	Mx	.027	.5
4	MP2A	X	52.284	4.5
5	MP2A	Z	90.559	4.5
6	MP2A	Mx	.027	4.5
7	MP2B	X	47.445	.5
8	MP2B	Z	82.176	.5
9	MP2B	Mx	-.073	.5
10	MP2B	X	47.445	4.5
11	MP2B	Z	82.176	4.5
12	MP2B	Mx	-.073	4.5
13	MP2C	X	39.062	.5
14	MP2C	Z	67.657	.5
15	MP2C	Mx	.026	.5
16	MP2C	X	39.062	4.5
17	MP2C	Z	67.657	4.5
18	MP2C	Mx	.026	4.5
19	MP2A	X	52.284	.5
20	MP2A	Z	90.559	.5
21	MP2A	Mx	-.079	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	52.284	4.5
23	MP2A	Z	90.559	4.5
24	MP2A	Mx	-.079	4.5
25	MP2B	X	47.445	.5
26	MP2B	Z	82.176	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	47.445	4.5
29	MP2B	Z	82.176	4.5
30	MP2B	Mx	.006	4.5
31	MP2C	X	39.062	.5
32	MP2C	Z	67.657	.5
33	MP2C	Mx	.05	.5
34	MP2C	X	39.062	4.5
35	MP2C	Z	67.657	4.5
36	MP2C	Mx	.05	4.5
37	MP1A	X	28.173	1.5
38	MP1A	Z	48.798	1.5
39	MP1A	Mx	-.014	1.5
40	MP1A	X	28.173	3.5
41	MP1A	Z	48.798	3.5
42	MP1A	Mx	-.014	3.5
43	MP1B	X	23.119	1.5
44	MP1B	Z	40.042	1.5
45	MP1B	Mx	-.016	1.5
46	MP1B	X	23.119	3.5
47	MP1B	Z	40.042	3.5
48	MP1B	Mx	-.016	3.5
49	MP1C	X	14.363	1.5
50	MP1C	Z	24.878	1.5
51	MP1C	Mx	.014	1.5
52	MP1C	X	14.363	3.5
53	MP1C	Z	24.878	3.5
54	MP1C	Mx	.014	3.5
55	MP2A	X	24.25	2
56	MP2A	Z	42.001	2
57	MP2A	Mx	.012	2
58	MP2B	X	22.058	2
59	MP2B	Z	38.205	2
60	MP2B	Mx	.016	2
61	MP2C	X	18.262	2
62	MP2C	Z	31.63	2
63	MP2C	Mx	-.018	2
64	MP3A	X	23.41	2
65	MP3A	Z	40.547	2
66	MP3A	Mx	.012	2
67	MP3B	X	20.379	2
68	MP3B	Z	35.297	2
69	MP3B	Mx	.014	2
70	MP3C	X	15.129	2
71	MP3C	Z	26.204	2
72	MP3C	Mx	-.015	2
73	M101	X	52.376	1.5
74	M101	Z	90.718	1.5
75	M101	Mx	0	1.5
76	MP4A	X	56.407	1
77	MP4A	Z	97.699	1
78	MP4A	Mx	-.028	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP4A	X	56.407	4
80	MP4A	Z	97.699	4
81	MP4A	Mx	-.028	4
82	MP4C	X	18.332	1
83	MP4C	Z	31.751	1
84	MP4C	Mx	.018	1
85	MP4C	X	18.332	4
86	MP4C	Z	31.751	4
87	MP4C	Mx	.018	4
88	MP4B	X	25.311	1
89	MP4B	Z	43.84	1
90	MP4B	Mx	-.018	1
91	MP4B	X	25.311	4
92	MP4B	Z	43.84	4
93	MP4B	Mx	-.018	4
94	M103	X	34.519	1.5
95	M103	Z	59.789	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	114.249	.5
3	MP2A	Mx	.067	.5
4	MP2A	X	0	4.5
5	MP2A	Z	114.249	4.5
6	MP2A	Mx	.067	4.5
7	MP2B	X	0	.5
8	MP2B	Z	78.123	.5
9	MP2B	Mx	-.05	.5
10	MP2B	X	0	4.5
11	MP2B	Z	78.123	4.5
12	MP2B	Mx	-.05	4.5
13	MP2C	X	0	.5
14	MP2C	Z	94.889	.5
15	MP2C	Mx	-.006	.5
16	MP2C	X	0	4.5
17	MP2C	Z	94.889	4.5
18	MP2C	Mx	-.006	4.5
19	MP2A	X	0	.5
20	MP2A	Z	114.249	.5
21	MP2A	Mx	-.067	.5
22	MP2A	X	0	4.5
23	MP2A	Z	114.249	4.5
24	MP2A	Mx	-.067	4.5
25	MP2B	X	0	.5
26	MP2B	Z	78.123	.5
27	MP2B	Mx	-.026	.5
28	MP2B	X	0	4.5
29	MP2B	Z	78.123	4.5
30	MP2B	Mx	-.026	4.5
31	MP2C	X	0	.5
32	MP2C	Z	94.889	.5
33	MP2C	Mx	.073	.5
34	MP2C	X	0	4.5
35	MP2C	Z	94.889	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.073	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	66.457	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	66.457	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	28.727	1.5
45	MP1B	Mx	-.014	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	28.727	3.5
48	MP1B	Mx	-.014	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	46.237	1.5
51	MP1C	Mx	.016	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	46.237	3.5
54	MP1C	Mx	.016	3.5
55	MP2A	X	0	2
56	MP2A	Z	52.882	2
57	MP2A	Mx	0	2
58	MP2B	X	0	2
59	MP2B	Z	36.524	2
60	MP2B	Mx	.018	2
61	MP2C	X	0	2
62	MP2C	Z	44.116	2
63	MP2C	Mx	-.016	2
64	MP3A	X	0	2
65	MP3A	Z	52.882	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	30.257	2
69	MP3B	Mx	.015	2
70	MP3C	X	0	2
71	MP3C	Z	40.758	2
72	MP3C	Mx	-.014	2
73	M101	X	0	1.5
74	M101	Z	104.752	1.5
75	M101	Mx	0	1.5
76	MP4A	X	0	1
77	MP4A	Z	133.761	1
78	MP4A	Mx	0	1
79	MP4A	X	0	4
80	MP4A	Z	133.761	4
81	MP4A	Mx	0	4
82	MP4C	X	0	1
83	MP4C	Z	50.622	1
84	MP4C	Mx	.018	1
85	MP4C	X	0	4
86	MP4C	Z	50.622	4
87	MP4C	Mx	.018	4
88	MP4B	X	0	1
89	MP4B	Z	36.663	1
90	MP4B	Mx	-.018	1
91	MP4B	X	0	4
92	MP4B	Z	36.663	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP4B	Mx	-.018	4
94	M103	X	0	1.5
95	M103	Z	69.038	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-52.284	.5
2	MP2A	Z	90.559	.5
3	MP2A	Mx	.079	.5
4	MP2A	X	-52.284	4.5
5	MP2A	Z	90.559	4.5
6	MP2A	Mx	.079	4.5
7	MP2B	X	-39.062	.5
8	MP2B	Z	67.657	.5
9	MP2B	Mx	-.026	.5
10	MP2B	X	-39.062	4.5
11	MP2B	Z	67.657	4.5
12	MP2B	Mx	-.026	4.5
13	MP2C	X	-55.828	.5
14	MP2C	Z	96.696	.5
15	MP2C	Mx	-.048	.5
16	MP2C	X	-55.828	4.5
17	MP2C	Z	96.696	4.5
18	MP2C	Mx	-.048	4.5
19	MP2A	X	-52.284	.5
20	MP2A	Z	90.559	.5
21	MP2A	Mx	-.027	.5
22	MP2A	X	-52.284	4.5
23	MP2A	Z	90.559	4.5
24	MP2A	Mx	-.027	4.5
25	MP2B	X	-39.062	.5
26	MP2B	Z	67.657	.5
27	MP2B	Mx	-.05	.5
28	MP2B	X	-39.062	4.5
29	MP2B	Z	67.657	4.5
30	MP2B	Mx	-.05	4.5
31	MP2C	X	-55.828	.5
32	MP2C	Z	96.696	.5
33	MP2C	Mx	.077	.5
34	MP2C	X	-55.828	4.5
35	MP2C	Z	96.696	4.5
36	MP2C	Mx	.077	4.5
37	MP1A	X	-28.173	1.5
38	MP1A	Z	48.798	1.5
39	MP1A	Mx	.014	1.5
40	MP1A	X	-28.173	3.5
41	MP1A	Z	48.798	3.5
42	MP1A	Mx	.014	3.5
43	MP1B	X	-14.363	1.5
44	MP1B	Z	24.878	1.5
45	MP1B	Mx	-.014	1.5
46	MP1B	X	-14.363	3.5
47	MP1B	Z	24.878	3.5
48	MP1B	Mx	-.014	3.5
49	MP1C	X	-31.874	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1C	Z	55.207	1.5
51	MP1C	Mx	.008	1.5
52	MP1C	X	-31.874	3.5
53	MP1C	Z	55.207	3.5
54	MP1C	Mx	.008	3.5
55	MP2A	X	-24.25	2
56	MP2A	Z	42.001	2
57	MP2A	Mx	-.012	2
58	MP2B	X	-18.262	2
59	MP2B	Z	31.63	2
60	MP2B	Mx	.018	2
61	MP2C	X	-25.854	2
62	MP2C	Z	44.78	2
63	MP2C	Mx	-.007	2
64	MP3A	X	-23.41	2
65	MP3A	Z	40.547	2
66	MP3A	Mx	-.012	2
67	MP3B	X	-15.129	2
68	MP3B	Z	26.204	2
69	MP3B	Mx	.015	2
70	MP3C	X	-25.629	2
71	MP3C	Z	44.391	2
72	MP3C	Mx	-.007	2
73	M101	X	-44.531	1.5
74	M101	Z	77.129	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-56.407	1
77	MP4A	Z	97.699	1
78	MP4A	Mx	.028	1
79	MP4A	X	-56.407	4
80	MP4A	Z	97.699	4
81	MP4A	Mx	.028	4
82	MP4C	X	-32.29	1
83	MP4C	Z	55.928	1
84	MP4C	Mx	.008	1
85	MP4C	X	-32.29	4
86	MP4C	Z	55.928	4
87	MP4C	Mx	.008	4
88	MP4B	X	-18.332	1
89	MP4B	Z	31.751	1
90	MP4B	Mx	-.018	1
91	MP4B	X	-18.332	4
92	MP4B	Z	31.751	4
93	MP4B	Mx	-.018	4
94	M103	X	-29.153	1.5
95	M103	Z	50.494	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-73.793	.5
2	MP2A	Z	42.605	.5
3	MP2A	Mx	.062	.5
4	MP2A	X	-73.793	4.5
5	MP2A	Z	42.605	4.5
6	MP2A	Mx	.062	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2B	X	-82.176	.5
8	MP2B	Z	47.445	.5
9	MP2B	Mx	.006	.5
10	MP2B	X	-82.176	4.5
11	MP2B	Z	47.445	4.5
12	MP2B	Mx	.006	4.5
13	MP2C	X	-96.696	.5
14	MP2C	Z	55.828	.5
15	MP2C	Mx	-.077	.5
16	MP2C	X	-96.696	4.5
17	MP2C	Z	55.828	4.5
18	MP2C	Mx	-.077	4.5
19	MP2A	X	-73.793	.5
20	MP2A	Z	42.605	.5
21	MP2A	Mx	.012	.5
22	MP2A	X	-73.793	4.5
23	MP2A	Z	42.605	4.5
24	MP2A	Mx	.012	4.5
25	MP2B	X	-82.176	.5
26	MP2B	Z	47.445	.5
27	MP2B	Mx	-.073	.5
28	MP2B	X	-82.176	4.5
29	MP2B	Z	47.445	4.5
30	MP2B	Mx	-.073	4.5
31	MP2C	X	-96.696	.5
32	MP2C	Z	55.828	.5
33	MP2C	Mx	.048	.5
34	MP2C	X	-96.696	4.5
35	MP2C	Z	55.828	4.5
36	MP2C	Mx	.048	4.5
37	MP1A	X	-31.287	1.5
38	MP1A	Z	18.064	1.5
39	MP1A	Mx	.016	1.5
40	MP1A	X	-31.287	3.5
41	MP1A	Z	18.064	3.5
42	MP1A	Mx	.016	3.5
43	MP1B	X	-40.042	1.5
44	MP1B	Z	23.119	1.5
45	MP1B	Mx	-.016	1.5
46	MP1B	X	-40.042	3.5
47	MP1B	Z	23.119	3.5
48	MP1B	Mx	-.016	3.5
49	MP1C	X	-55.207	1.5
50	MP1C	Z	31.874	1.5
51	MP1C	Mx	-.008	1.5
52	MP1C	X	-55.207	3.5
53	MP1C	Z	31.874	3.5
54	MP1C	Mx	-.008	3.5
55	MP2A	X	-34.409	2
56	MP2A	Z	19.866	2
57	MP2A	Mx	-.017	2
58	MP2B	X	-38.205	2
59	MP2B	Z	22.058	2
60	MP2B	Mx	.016	2
61	MP2C	X	-44.78	2
62	MP2C	Z	25.854	2
63	MP2C	Mx	.007	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP3A	X	-30.047	2
65	MP3A	Z	17.348	2
66	MP3A	Mx	-.015	2
67	MP3B	X	-35.297	2
68	MP3B	Z	20.379	2
69	MP3B	Mx	.014	2
70	MP3C	X	-44.391	2
71	MP3C	Z	25.629	2
72	MP3C	Mx	.007	2
73	M101	X	-63.541	1.5
74	M101	Z	36.686	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-61.416	1
77	MP4A	Z	35.458	1
78	MP4A	Mx	.031	1
79	MP4A	X	-61.416	4
80	MP4A	Z	35.458	4
81	MP4A	Mx	.031	4
82	MP4C	X	-55.928	1
83	MP4C	Z	32.29	1
84	MP4C	Mx	-.008	1
85	MP4C	X	-55.928	4
86	MP4C	Z	32.29	4
87	MP4C	Mx	-.008	4
88	MP4B	X	-43.84	1
89	MP4B	Z	25.311	1
90	MP4B	Mx	-.018	1
91	MP4B	X	-43.84	4
92	MP4B	Z	25.311	4
93	MP4B	Mx	-.018	4
94	M103	X	-41.199	1.5
95	M103	Z	23.786	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-75.53	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.038	.5
4	MP2A	X	-75.53	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	.038	4.5
7	MP2B	X	-111.655	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.048	.5
10	MP2B	X	-111.655	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	.048	4.5
13	MP2C	X	-94.889	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.073	.5
16	MP2C	X	-94.889	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	-.073	4.5
19	MP2A	X	-75.53	.5
20	MP2A	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	.038	.5
22	MP2A	X	-75.53	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	.038	4.5
25	MP2B	X	-111.655	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.077	.5
28	MP2B	X	-111.655	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	-.077	4.5
31	MP2C	X	-94.889	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	-94.889	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	.006	4.5
37	MP1A	X	-26.018	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.013	1.5
40	MP1A	X	-26.018	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.013	3.5
43	MP1B	X	-63.748	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.008	1.5
46	MP1B	X	-63.748	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.008	3.5
49	MP1C	X	-46.237	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.016	1.5
52	MP1C	X	-46.237	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.016	3.5
55	MP2A	X	-35.349	2
56	MP2A	Z	0	2
57	MP2A	Mx	-.018	2
58	MP2B	X	-51.708	2
59	MP2B	Z	0	2
60	MP2B	Mx	.007	2
61	MP2C	X	-44.116	2
62	MP2C	Z	0	2
63	MP2C	Mx	.016	2
64	MP3A	X	-28.633	2
65	MP3A	Z	0	2
66	MP3A	Mx	-.014	2
67	MP3B	X	-51.258	2
68	MP3B	Z	0	2
69	MP3B	Mx	.007	2
70	MP3C	X	-40.758	2
71	MP3C	Z	0	2
72	MP3C	Mx	.014	2
73	M101	X	-73.371	1.5
74	M101	Z	0	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-49.968	1
77	MP4A	Z	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mx	.025	1
79	MP4A	X	-49.968	4
80	MP4A	Z	0	4
81	MP4A	Mx	.025	4
82	MP4C	X	-50.622	1
83	MP4C	Z	0	1
84	MP4C	Mx	-.018	1
85	MP4C	X	-50.622	4
86	MP4C	Z	0	4
87	MP4C	Mx	-.018	4
88	MP4B	X	-64.58	1
89	MP4B	Z	0	1
90	MP4B	Mx	-.008	1
91	MP4B	X	-64.58	4
92	MP4B	Z	0	4
93	MP4B	Mx	-.008	4
94	M103	X	-47.572	1.5
95	M103	Z	0	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-73.793	.5
2	MP2A	Z	-42.605	.5
3	MP2A	Mx	.012	.5
4	MP2A	X	-73.793	4.5
5	MP2A	Z	-42.605	4.5
6	MP2A	Mx	.012	4.5
7	MP2B	X	-96.696	.5
8	MP2B	Z	-55.828	.5
9	MP2B	Mx	.077	.5
10	MP2B	X	-96.696	4.5
11	MP2B	Z	-55.828	4.5
12	MP2B	Mx	.077	4.5
13	MP2C	X	-67.657	.5
14	MP2C	Z	-39.062	.5
15	MP2C	Mx	-.05	.5
16	MP2C	X	-67.657	4.5
17	MP2C	Z	-39.062	4.5
18	MP2C	Mx	-.05	4.5
19	MP2A	X	-73.793	.5
20	MP2A	Z	-42.605	.5
21	MP2A	Mx	.062	.5
22	MP2A	X	-73.793	4.5
23	MP2A	Z	-42.605	4.5
24	MP2A	Mx	.062	4.5
25	MP2B	X	-96.696	.5
26	MP2B	Z	-55.828	.5
27	MP2B	Mx	-.048	.5
28	MP2B	X	-96.696	4.5
29	MP2B	Z	-55.828	4.5
30	MP2B	Mx	-.048	4.5
31	MP2C	X	-67.657	.5
32	MP2C	Z	-39.062	.5
33	MP2C	Mx	-.026	.5
34	MP2C	X	-67.657	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	-39.062	4.5
36	MP2C	Mx	-.026	4.5
37	MP1A	X	-31.287	1.5
38	MP1A	Z	-18.064	1.5
39	MP1A	Mx	.016	1.5
40	MP1A	X	-31.287	3.5
41	MP1A	Z	-18.064	3.5
42	MP1A	Mx	.016	3.5
43	MP1B	X	-55.207	1.5
44	MP1B	Z	-31.874	1.5
45	MP1B	Mx	.008	1.5
46	MP1B	X	-55.207	3.5
47	MP1B	Z	-31.874	3.5
48	MP1B	Mx	.008	3.5
49	MP1C	X	-24.878	1.5
50	MP1C	Z	-14.363	1.5
51	MP1C	Mx	-.014	1.5
52	MP1C	X	-24.878	3.5
53	MP1C	Z	-14.363	3.5
54	MP1C	Mx	-.014	3.5
55	MP2A	X	-34.409	2
56	MP2A	Z	-19.866	2
57	MP2A	Mx	-.017	2
58	MP2B	X	-44.78	2
59	MP2B	Z	-25.854	2
60	MP2B	Mx	-.007	2
61	MP2C	X	-31.63	2
62	MP2C	Z	-18.262	2
63	MP2C	Mx	.018	2
64	MP3A	X	-30.047	2
65	MP3A	Z	-17.348	2
66	MP3A	Mx	-.015	2
67	MP3B	X	-44.391	2
68	MP3B	Z	-25.629	2
69	MP3B	Mx	-.007	2
70	MP3C	X	-26.204	2
71	MP3C	Z	-15.129	2
72	MP3C	Mx	.015	2
73	M101	X	-77.129	1.5
74	M101	Z	-44.531	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-61.416	1
77	MP4A	Z	-35.458	1
78	MP4A	Mx	.031	1
79	MP4A	X	-61.416	4
80	MP4A	Z	-35.458	4
81	MP4A	Mx	.031	4
82	MP4C	X	-31.751	1
83	MP4C	Z	-18.332	1
84	MP4C	Mx	-.018	1
85	MP4C	X	-31.751	4
86	MP4C	Z	-18.332	4
87	MP4C	Mx	-.018	4
88	MP4B	X	-55.928	1
89	MP4B	Z	-32.29	1
90	MP4B	Mx	.008	1
91	MP4B	X	-55.928	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4B	Z	-32.29	4
93	MP4B	Mx	.008	4
94	M103	X	-50.494	1.5
95	M103	Z	-29.153	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-52.284	.5
2	MP2A	Z	-90.559	.5
3	MP2A	Mx	-.027	.5
4	MP2A	X	-52.284	4.5
5	MP2A	Z	-90.559	4.5
6	MP2A	Mx	-.027	4.5
7	MP2B	X	-47.445	.5
8	MP2B	Z	-82.176	.5
9	MP2B	Mx	.073	.5
10	MP2B	X	-47.445	4.5
11	MP2B	Z	-82.176	4.5
12	MP2B	Mx	.073	4.5
13	MP2C	X	-39.062	.5
14	MP2C	Z	-67.657	.5
15	MP2C	Mx	-.026	.5
16	MP2C	X	-39.062	4.5
17	MP2C	Z	-67.657	4.5
18	MP2C	Mx	-.026	4.5
19	MP2A	X	-52.284	.5
20	MP2A	Z	-90.559	.5
21	MP2A	Mx	.079	.5
22	MP2A	X	-52.284	4.5
23	MP2A	Z	-90.559	4.5
24	MP2A	Mx	.079	4.5
25	MP2B	X	-47.445	.5
26	MP2B	Z	-82.176	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	-47.445	4.5
29	MP2B	Z	-82.176	4.5
30	MP2B	Mx	-.006	4.5
31	MP2C	X	-39.062	.5
32	MP2C	Z	-67.657	.5
33	MP2C	Mx	-.05	.5
34	MP2C	X	-39.062	4.5
35	MP2C	Z	-67.657	4.5
36	MP2C	Mx	-.05	4.5
37	MP1A	X	-28.173	1.5
38	MP1A	Z	-48.798	1.5
39	MP1A	Mx	.014	1.5
40	MP1A	X	-28.173	3.5
41	MP1A	Z	-48.798	3.5
42	MP1A	Mx	.014	3.5
43	MP1B	X	-23.119	1.5
44	MP1B	Z	-40.042	1.5
45	MP1B	Mx	.016	1.5
46	MP1B	X	-23.119	3.5
47	MP1B	Z	-40.042	3.5
48	MP1B	Mx	.016	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	-14.363	1.5
50	MP1C	Z	-24.878	1.5
51	MP1C	Mx	-.014	1.5
52	MP1C	X	-14.363	3.5
53	MP1C	Z	-24.878	3.5
54	MP1C	Mx	-.014	3.5
55	MP2A	X	-24.25	2
56	MP2A	Z	-42.001	2
57	MP2A	Mx	-.012	2
58	MP2B	X	-22.058	2
59	MP2B	Z	-38.205	2
60	MP2B	Mx	-.016	2
61	MP2C	X	-18.262	2
62	MP2C	Z	-31.63	2
63	MP2C	Mx	.018	2
64	MP3A	X	-23.41	2
65	MP3A	Z	-40.547	2
66	MP3A	Mx	-.012	2
67	MP3B	X	-20.379	2
68	MP3B	Z	-35.297	2
69	MP3B	Mx	-.014	2
70	MP3C	X	-15.129	2
71	MP3C	Z	-26.204	2
72	MP3C	Mx	.015	2
73	M101	X	-52.376	1.5
74	M101	Z	-90.718	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-56.407	1
77	MP4A	Z	-97.699	1
78	MP4A	Mx	.028	1
79	MP4A	X	-56.407	4
80	MP4A	Z	-97.699	4
81	MP4A	Mx	.028	4
82	MP4C	X	-18.332	1
83	MP4C	Z	-31.751	1
84	MP4C	Mx	-.018	1
85	MP4C	X	-18.332	4
86	MP4C	Z	-31.751	4
87	MP4C	Mx	-.018	4
88	MP4B	X	-25.311	1
89	MP4B	Z	-43.84	1
90	MP4B	Mx	.018	1
91	MP4B	X	-25.311	4
92	MP4B	Z	-43.84	4
93	MP4B	Mx	.018	4
94	M103	X	-34.519	1.5
95	M103	Z	-59.789	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-24.02	.5
3	MP2A	Mx	-.014	.5
4	MP2A	X	0	4.5
5	MP2A	Z	-24.02	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.014	4.5
7	MP2B	X	0	.5
8	MP2B	Z	-17.328	.5
9	MP2B	Mx	.011	.5
10	MP2B	X	0	4.5
11	MP2B	Z	-17.328	4.5
12	MP2B	Mx	.011	4.5
13	MP2C	X	0	.5
14	MP2C	Z	-20.434	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	0	4.5
17	MP2C	Z	-20.434	4.5
18	MP2C	Mx	.001	4.5
19	MP2A	X	0	.5
20	MP2A	Z	-24.02	.5
21	MP2A	Mx	.014	.5
22	MP2A	X	0	4.5
23	MP2A	Z	-24.02	4.5
24	MP2A	Mx	.014	4.5
25	MP2B	X	0	.5
26	MP2B	Z	-17.328	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	0	4.5
29	MP2B	Z	-17.328	4.5
30	MP2B	Mx	.006	4.5
31	MP2C	X	0	.5
32	MP2C	Z	-20.434	.5
33	MP2C	Mx	-.016	.5
34	MP2C	X	0	4.5
35	MP2C	Z	-20.434	4.5
36	MP2C	Mx	-.016	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	-14.428	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-14.428	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-6.914	1.5
45	MP1B	Mx	.003	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-6.914	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-10.401	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-10.401	3.5
54	MP1C	Mx	-.004	3.5
55	MP2A	X	0	2
56	MP2A	Z	-12.454	2
57	MP2A	Mx	0	2
58	MP2B	X	0	2
59	MP2B	Z	-9.055	2
60	MP2B	Mx	-.004	2
61	MP2C	X	0	2
62	MP2C	Z	-10.633	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.004	2
64	MP3A	X	0	2
65	MP3A	Z	-12.454	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	-7.763	2
69	MP3B	Mx	-.004	2
70	MP3C	X	0	2
71	MP3C	Z	-9.94	2
72	MP3C	Mx	.004	2
73	M101	X	0	1.5
74	M101	Z	-23.033	1.5
75	M101	Mx	0	1.5
76	MP4A	X	0	1
77	MP4A	Z	-27.537	1
78	MP4A	Mx	0	1
79	MP4A	X	0	4
80	MP4A	Z	-27.537	4
81	MP4A	Mx	0	4
82	MP4C	X	0	1
83	MP4C	Z	-11.431	1
84	MP4C	Mx	-.004	1
85	MP4C	X	0	4
86	MP4C	Z	-11.431	4
87	MP4C	Mx	-.004	4
88	MP4B	X	0	1
89	MP4B	Z	-8.773	1
90	MP4B	Mx	.004	1
91	MP4B	X	0	4
92	MP4B	Z	-8.773	4
93	MP4B	Mx	.004	4
94	M103	X	0	1.5
95	M103	Z	-15.742	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.113	.5
2	MP2A	Z	-19.249	.5
3	MP2A	Mx	-.017	.5
4	MP2A	X	11.113	4.5
5	MP2A	Z	-19.249	4.5
6	MP2A	Mx	-.017	4.5
7	MP2B	X	8.664	.5
8	MP2B	Z	-15.006	.5
9	MP2B	Mx	.006	.5
10	MP2B	X	8.664	4.5
11	MP2B	Z	-15.006	4.5
12	MP2B	Mx	.006	4.5
13	MP2C	X	11.77	.5
14	MP2C	Z	-20.386	.5
15	MP2C	Mx	.01	.5
16	MP2C	X	11.77	4.5
17	MP2C	Z	-20.386	4.5
18	MP2C	Mx	.01	4.5
19	MP2A	X	11.113	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP2A	Z	-19.249	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	11.113	4.5
23	MP2A	Z	-19.249	4.5
24	MP2A	Mx	.006	4.5
25	MP2B	X	8.664	.5
26	MP2B	Z	-15.006	.5
27	MP2B	Mx	.011	.5
28	MP2B	X	8.664	4.5
29	MP2B	Z	-15.006	4.5
30	MP2B	Mx	.011	4.5
31	MP2C	X	11.77	.5
32	MP2C	Z	-20.386	.5
33	MP2C	Mx	-.016	.5
34	MP2C	X	11.77	4.5
35	MP2C	Z	-20.386	4.5
36	MP2C	Mx	-.016	4.5
37	MP1A	X	6.207	1.5
38	MP1A	Z	-10.751	1.5
39	MP1A	Mx	-.003	1.5
40	MP1A	X	6.207	3.5
41	MP1A	Z	-10.751	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	3.457	1.5
44	MP1B	Z	-5.987	1.5
45	MP1B	Mx	.003	1.5
46	MP1B	X	3.457	3.5
47	MP1B	Z	-5.987	3.5
48	MP1B	Mx	.003	3.5
49	MP1C	X	6.944	1.5
50	MP1C	Z	-12.028	1.5
51	MP1C	Mx	-.002	1.5
52	MP1C	X	6.944	3.5
53	MP1C	Z	-12.028	3.5
54	MP1C	Mx	-.002	3.5
55	MP2A	X	5.772	2
56	MP2A	Z	-9.997	2
57	MP2A	Mx	.003	2
58	MP2B	X	4.527	2
59	MP2B	Z	-7.842	2
60	MP2B	Mx	-.004	2
61	MP2C	X	6.105	2
62	MP2C	Z	-10.574	2
63	MP2C	Mx	.002	2
64	MP3A	X	5.599	2
65	MP3A	Z	-9.697	2
66	MP3A	Mx	.003	2
67	MP3B	X	3.881	2
68	MP3B	Z	-6.723	2
69	MP3B	Mx	-.004	2
70	MP3C	X	6.059	2
71	MP3C	Z	-10.494	2
72	MP3C	Mx	.002	2
73	M101	X	9.965	1.5
74	M101	Z	-17.26	1.5
75	M101	Mx	0	1.5
76	MP4A	X	11.737	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP4A	Z	-20.328	1
78	MP4A	Mx	-.006	1
79	MP4A	X	11.737	4
80	MP4A	Z	-20.328	4
81	MP4A	Mx	-.006	4
82	MP4C	X	7.045	1
83	MP4C	Z	-12.202	1
84	MP4C	Mx	-.002	1
85	MP4C	X	7.045	4
86	MP4C	Z	-12.202	4
87	MP4C	Mx	-.002	4
88	MP4B	X	4.387	1
89	MP4B	Z	-7.598	1
90	MP4B	Mx	.004	1
91	MP4B	X	4.387	4
92	MP4B	Z	-7.598	4
93	MP4B	Mx	.004	4
94	M103	X	6.793	1.5
95	M103	Z	-11.766	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.143	.5
2	MP2A	Z	-9.32	.5
3	MP2A	Mx	-.014	.5
4	MP2A	X	16.143	4.5
5	MP2A	Z	-9.32	4.5
6	MP2A	Mx	-.014	4.5
7	MP2B	X	17.696	.5
8	MP2B	Z	-10.217	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	17.696	4.5
11	MP2B	Z	-10.217	4.5
12	MP2B	Mx	-.001	4.5
13	MP2C	X	20.386	.5
14	MP2C	Z	-11.77	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	20.386	4.5
17	MP2C	Z	-11.77	4.5
18	MP2C	Mx	.016	4.5
19	MP2A	X	16.143	.5
20	MP2A	Z	-9.32	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	16.143	4.5
23	MP2A	Z	-9.32	4.5
24	MP2A	Mx	-.003	4.5
25	MP2B	X	17.696	.5
26	MP2B	Z	-10.217	.5
27	MP2B	Mx	.016	.5
28	MP2B	X	17.696	4.5
29	MP2B	Z	-10.217	4.5
30	MP2B	Mx	.016	4.5
31	MP2C	X	20.386	.5
32	MP2C	Z	-11.77	.5
33	MP2C	Mx	-.01	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2C	X	20.386	4.5
35	MP2C	Z	-11.77	4.5
36	MP2C	Mx	-.01	4.5
37	MP1A	X	7.264	1.5
38	MP1A	Z	-4.194	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	7.264	3.5
41	MP1A	Z	-4.194	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	9.008	1.5
44	MP1B	Z	-5.2	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	9.008	3.5
47	MP1B	Z	-5.2	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	12.028	1.5
50	MP1C	Z	-6.944	1.5
51	MP1C	Mx	.002	1.5
52	MP1C	X	12.028	3.5
53	MP1C	Z	-6.944	3.5
54	MP1C	Mx	.002	3.5
55	MP2A	X	8.419	2
56	MP2A	Z	-4.861	2
57	MP2A	Mx	.004	2
58	MP2B	X	9.208	2
59	MP2B	Z	-5.316	2
60	MP2B	Mx	-.004	2
61	MP2C	X	10.574	2
62	MP2C	Z	-6.105	2
63	MP2C	Mx	-.002	2
64	MP3A	X	7.52	2
65	MP3A	Z	-4.342	2
66	MP3A	Mx	.004	2
67	MP3B	X	8.608	2
68	MP3B	Z	-4.97	2
69	MP3B	Mx	-.004	2
70	MP3C	X	10.494	2
71	MP3C	Z	-6.059	2
72	MP3C	Mx	-.002	2
73	M101	X	14.573	1.5
74	M101	Z	-8.414	1.5
75	M101	Mx	0	1.5
76	MP4A	X	13.29	1
77	MP4A	Z	-7.673	1
78	MP4A	Mx	-.007	1
79	MP4A	X	13.29	4
80	MP4A	Z	-7.673	4
81	MP4A	Mx	-.007	4
82	MP4C	X	12.202	1
83	MP4C	Z	-7.045	1
84	MP4C	Mx	.002	1
85	MP4C	X	12.202	4
86	MP4C	Z	-7.045	4
87	MP4C	Mx	.002	4
88	MP4B	X	9.9	1
89	MP4B	Z	-5.716	1
90	MP4B	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP4B	X	9.9	4
92	MP4B	Z	-5.716	4
93	MP4B	Mx	.004	4
94	M103	X	9.899	1.5
95	M103	Z	-5.715	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.847	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.008	.5
4	MP2A	X	16.847	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	-.008	4.5
7	MP2B	X	23.54	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.01	.5
10	MP2B	X	23.54	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	-.01	4.5
13	MP2C	X	20.434	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	20.434	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	.016	4.5
19	MP2A	X	16.847	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.008	.5
22	MP2A	X	16.847	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	-.008	4.5
25	MP2B	X	23.54	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.016	.5
28	MP2B	X	23.54	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	.016	4.5
31	MP2C	X	20.434	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.001	.5
34	MP2C	X	20.434	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	-.001	4.5
37	MP1A	X	6.374	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.003	1.5
40	MP1A	X	6.374	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	13.888	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.002	1.5
46	MP1B	X	13.888	3.5
47	MP1B	Z	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP1B	Mx	.002	3.5
49	MP1C	X	10.401	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	10.401	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.004	3.5
55	MP2A	X	8.811	2
56	MP2A	Z	0	2
57	MP2A	Mx	.004	2
58	MP2B	X	12.21	2
59	MP2B	Z	0	2
60	MP2B	Mx	-.002	2
61	MP2C	X	10.633	2
62	MP2C	Z	0	2
63	MP2C	Mx	-.004	2
64	MP3A	X	7.426	2
65	MP3A	Z	0	2
66	MP3A	Mx	.004	2
67	MP3B	X	12.118	2
68	MP3B	Z	0	2
69	MP3B	Mx	-.002	2
70	MP3C	X	9.94	2
71	MP3C	Z	0	2
72	MP3C	Mx	-.004	2
73	M101	X	16.827	1.5
74	M101	Z	0	1.5
75	M101	Mx	0	1.5
76	MP4A	X	11.282	1
77	MP4A	Z	0	1
78	MP4A	Mx	-.006	1
79	MP4A	X	11.282	4
80	MP4A	Z	0	4
81	MP4A	Mx	-.006	4
82	MP4C	X	11.431	1
83	MP4C	Z	0	1
84	MP4C	Mx	.004	1
85	MP4C	X	11.431	4
86	MP4C	Z	0	4
87	MP4C	Mx	.004	4
88	MP4B	X	14.09	1
89	MP4B	Z	0	1
90	MP4B	Mx	.002	1
91	MP4B	X	14.09	4
92	MP4B	Z	0	4
93	MP4B	Mx	.002	4
94	M103	X	11.431	1.5
95	M103	Z	0	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.143	.5
2	MP2A	Z	9.32	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	16.143	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	9.32	4.5
6	MP2A	Mx	-.003	4.5
7	MP2B	X	20.386	.5
8	MP2B	Z	11.77	.5
9	MP2B	Mx	-.016	.5
10	MP2B	X	20.386	4.5
11	MP2B	Z	11.77	4.5
12	MP2B	Mx	-.016	4.5
13	MP2C	X	15.006	.5
14	MP2C	Z	8.664	.5
15	MP2C	Mx	.011	.5
16	MP2C	X	15.006	4.5
17	MP2C	Z	8.664	4.5
18	MP2C	Mx	.011	4.5
19	MP2A	X	16.143	.5
20	MP2A	Z	9.32	.5
21	MP2A	Mx	-.014	.5
22	MP2A	X	16.143	4.5
23	MP2A	Z	9.32	4.5
24	MP2A	Mx	-.014	4.5
25	MP2B	X	20.386	.5
26	MP2B	Z	11.77	.5
27	MP2B	Mx	.01	.5
28	MP2B	X	20.386	4.5
29	MP2B	Z	11.77	4.5
30	MP2B	Mx	.01	4.5
31	MP2C	X	15.006	.5
32	MP2C	Z	8.664	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	15.006	4.5
35	MP2C	Z	8.664	4.5
36	MP2C	Mx	.006	4.5
37	MP1A	X	7.264	1.5
38	MP1A	Z	4.194	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	7.264	3.5
41	MP1A	Z	4.194	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	12.028	1.5
44	MP1B	Z	6.944	1.5
45	MP1B	Mx	-.002	1.5
46	MP1B	X	12.028	3.5
47	MP1B	Z	6.944	3.5
48	MP1B	Mx	-.002	3.5
49	MP1C	X	5.987	1.5
50	MP1C	Z	3.457	1.5
51	MP1C	Mx	.003	1.5
52	MP1C	X	5.987	3.5
53	MP1C	Z	3.457	3.5
54	MP1C	Mx	.003	3.5
55	MP2A	X	8.419	2
56	MP2A	Z	4.861	2
57	MP2A	Mx	.004	2
58	MP2B	X	10.574	2
59	MP2B	Z	6.105	2
60	MP2B	Mx	.002	2
61	MP2C	X	7.842	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP2C	Z	4.527	2
63	MP2C	Mx	-.004	2
64	MP3A	X	7.52	2
65	MP3A	Z	4.342	2
66	MP3A	Mx	.004	2
67	MP3B	X	10.494	2
68	MP3B	Z	6.059	2
69	MP3B	Mx	.002	2
70	MP3C	X	6.723	2
71	MP3C	Z	3.881	2
72	MP3C	Mx	-.004	2
73	M101	X	17.26	1.5
74	M101	Z	9.965	1.5
75	M101	Mx	0	1.5
76	MP4A	X	13.29	1
77	MP4A	Z	7.673	1
78	MP4A	Mx	-.007	1
79	MP4A	X	13.29	4
80	MP4A	Z	7.673	4
81	MP4A	Mx	-.007	4
82	MP4C	X	7.598	1
83	MP4C	Z	4.387	1
84	MP4C	Mx	.004	1
85	MP4C	X	7.598	4
86	MP4C	Z	4.387	4
87	MP4C	Mx	.004	4
88	MP4B	X	12.202	1
89	MP4B	Z	7.045	1
90	MP4B	Mx	-.002	1
91	MP4B	X	12.202	4
92	MP4B	Z	7.045	4
93	MP4B	Mx	-.002	4
94	M103	X	11.766	1.5
95	M103	Z	6.793	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.113	.5
2	MP2A	Z	19.249	.5
3	MP2A	Mx	.006	.5
4	MP2A	X	11.113	4.5
5	MP2A	Z	19.249	4.5
6	MP2A	Mx	.006	4.5
7	MP2B	X	10.217	.5
8	MP2B	Z	17.696	.5
9	MP2B	Mx	-.016	.5
10	MP2B	X	10.217	4.5
11	MP2B	Z	17.696	4.5
12	MP2B	Mx	-.016	4.5
13	MP2C	X	8.664	.5
14	MP2C	Z	15.006	.5
15	MP2C	Mx	.006	.5
16	MP2C	X	8.664	4.5
17	MP2C	Z	15.006	4.5
18	MP2C	Mx	.006	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP2A	X	11.113	.5
20	MP2A	Z	19.249	.5
21	MP2A	Mx	-.017	.5
22	MP2A	X	11.113	4.5
23	MP2A	Z	19.249	4.5
24	MP2A	Mx	-.017	4.5
25	MP2B	X	10.217	.5
26	MP2B	Z	17.696	.5
27	MP2B	Mx	.001	.5
28	MP2B	X	10.217	4.5
29	MP2B	Z	17.696	4.5
30	MP2B	Mx	.001	4.5
31	MP2C	X	8.664	.5
32	MP2C	Z	15.006	.5
33	MP2C	Mx	.011	.5
34	MP2C	X	8.664	4.5
35	MP2C	Z	15.006	4.5
36	MP2C	Mx	.011	4.5
37	MP1A	X	6.207	1.5
38	MP1A	Z	10.751	1.5
39	MP1A	Mx	-.003	1.5
40	MP1A	X	6.207	3.5
41	MP1A	Z	10.751	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	5.2	1.5
44	MP1B	Z	9.008	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	5.2	3.5
47	MP1B	Z	9.008	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	3.457	1.5
50	MP1C	Z	5.987	1.5
51	MP1C	Mx	.003	1.5
52	MP1C	X	3.457	3.5
53	MP1C	Z	5.987	3.5
54	MP1C	Mx	.003	3.5
55	MP2A	X	5.772	2
56	MP2A	Z	9.997	2
57	MP2A	Mx	.003	2
58	MP2B	X	5.316	2
59	MP2B	Z	9.208	2
60	MP2B	Mx	.004	2
61	MP2C	X	4.527	2
62	MP2C	Z	7.842	2
63	MP2C	Mx	-.004	2
64	MP3A	X	5.599	2
65	MP3A	Z	9.697	2
66	MP3A	Mx	.003	2
67	MP3B	X	4.97	2
68	MP3B	Z	8.608	2
69	MP3B	Mx	.004	2
70	MP3C	X	3.881	2
71	MP3C	Z	6.723	2
72	MP3C	Mx	-.004	2
73	M101	X	11.516	1.5
74	M101	Z	19.947	1.5
75	M101	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP4A	X	11.737	1
77	MP4A	Z	20.328	1
78	MP4A	Mx	-.006	1
79	MP4A	X	11.737	4
80	MP4A	Z	20.328	4
81	MP4A	Mx	-.006	4
82	MP4C	X	4.387	1
83	MP4C	Z	7.598	1
84	MP4C	Mx	.004	1
85	MP4C	X	4.387	4
86	MP4C	Z	7.598	4
87	MP4C	Mx	.004	4
88	MP4B	X	5.716	1
89	MP4B	Z	9.9	1
90	MP4B	Mx	-.004	1
91	MP4B	X	5.716	4
92	MP4B	Z	9.9	4
93	MP4B	Mx	-.004	4
94	M103	X	7.871	1.5
95	M103	Z	13.633	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	24.02	.5
3	MP2A	Mx	.014	.5
4	MP2A	X	0	4.5
5	MP2A	Z	24.02	4.5
6	MP2A	Mx	.014	4.5
7	MP2B	X	0	.5
8	MP2B	Z	17.328	.5
9	MP2B	Mx	-.011	.5
10	MP2B	X	0	4.5
11	MP2B	Z	17.328	4.5
12	MP2B	Mx	-.011	4.5
13	MP2C	X	0	.5
14	MP2C	Z	20.434	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	0	4.5
17	MP2C	Z	20.434	4.5
18	MP2C	Mx	-.001	4.5
19	MP2A	X	0	.5
20	MP2A	Z	24.02	.5
21	MP2A	Mx	-.014	.5
22	MP2A	X	0	4.5
23	MP2A	Z	24.02	4.5
24	MP2A	Mx	-.014	4.5
25	MP2B	X	0	.5
26	MP2B	Z	17.328	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	0	4.5
29	MP2B	Z	17.328	4.5
30	MP2B	Mx	-.006	4.5
31	MP2C	X	0	.5
32	MP2C	Z	20.434	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	.016	.5
34	MP2C	X	0	4.5
35	MP2C	Z	20.434	4.5
36	MP2C	Mx	.016	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	14.428	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	14.428	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	6.914	1.5
45	MP1B	Mx	-.003	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	6.914	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	10.401	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	10.401	3.5
54	MP1C	Mx	.004	3.5
55	MP2A	X	0	2
56	MP2A	Z	12.454	2
57	MP2A	Mx	0	2
58	MP2B	X	0	2
59	MP2B	Z	9.055	2
60	MP2B	Mx	.004	2
61	MP2C	X	0	2
62	MP2C	Z	10.633	2
63	MP2C	Mx	-.004	2
64	MP3A	X	0	2
65	MP3A	Z	12.454	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	7.763	2
69	MP3B	Mx	.004	2
70	MP3C	X	0	2
71	MP3C	Z	9.94	2
72	MP3C	Mx	-.004	2
73	M101	X	0	1.5
74	M101	Z	23.033	1.5
75	M101	Mx	0	1.5
76	MP4A	X	0	1
77	MP4A	Z	27.537	1
78	MP4A	Mx	0	1
79	MP4A	X	0	4
80	MP4A	Z	27.537	4
81	MP4A	Mx	0	4
82	MP4C	X	0	1
83	MP4C	Z	11.431	1
84	MP4C	Mx	.004	1
85	MP4C	X	0	4
86	MP4C	Z	11.431	4
87	MP4C	Mx	.004	4
88	MP4B	X	0	1
89	MP4B	Z	8.773	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP4B	Mx	-.004	1
91	MP4B	X	0	4
92	MP4B	Z	8.773	4
93	MP4B	Mx	-.004	4
94	M103	X	0	1.5
95	M103	Z	15.742	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.113	.5
2	MP2A	Z	19.249	.5
3	MP2A	Mx	.017	.5
4	MP2A	X	-11.113	4.5
5	MP2A	Z	19.249	4.5
6	MP2A	Mx	.017	4.5
7	MP2B	X	-8.664	.5
8	MP2B	Z	15.006	.5
9	MP2B	Mx	-.006	.5
10	MP2B	X	-8.664	4.5
11	MP2B	Z	15.006	4.5
12	MP2B	Mx	-.006	4.5
13	MP2C	X	-11.77	.5
14	MP2C	Z	20.386	.5
15	MP2C	Mx	-.01	.5
16	MP2C	X	-11.77	4.5
17	MP2C	Z	20.386	4.5
18	MP2C	Mx	-.01	4.5
19	MP2A	X	-11.113	.5
20	MP2A	Z	19.249	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	-11.113	4.5
23	MP2A	Z	19.249	4.5
24	MP2A	Mx	-.006	4.5
25	MP2B	X	-8.664	.5
26	MP2B	Z	15.006	.5
27	MP2B	Mx	-.011	.5
28	MP2B	X	-8.664	4.5
29	MP2B	Z	15.006	4.5
30	MP2B	Mx	-.011	4.5
31	MP2C	X	-11.77	.5
32	MP2C	Z	20.386	.5
33	MP2C	Mx	.016	.5
34	MP2C	X	-11.77	4.5
35	MP2C	Z	20.386	4.5
36	MP2C	Mx	.016	4.5
37	MP1A	X	-6.207	1.5
38	MP1A	Z	10.751	1.5
39	MP1A	Mx	.003	1.5
40	MP1A	X	-6.207	3.5
41	MP1A	Z	10.751	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-3.457	1.5
44	MP1B	Z	5.987	1.5
45	MP1B	Mx	-.003	1.5
46	MP1B	X	-3.457	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP1B	Z	5.987	3.5
48	MP1B	Mx	-.003	3.5
49	MP1C	X	-6.944	1.5
50	MP1C	Z	12.028	1.5
51	MP1C	Mx	.002	1.5
52	MP1C	X	-6.944	3.5
53	MP1C	Z	12.028	3.5
54	MP1C	Mx	.002	3.5
55	MP2A	X	-5.772	2
56	MP2A	Z	9.997	2
57	MP2A	Mx	-.003	2
58	MP2B	X	-4.527	2
59	MP2B	Z	7.842	2
60	MP2B	Mx	.004	2
61	MP2C	X	-6.105	2
62	MP2C	Z	10.574	2
63	MP2C	Mx	-.002	2
64	MP3A	X	-5.599	2
65	MP3A	Z	9.697	2
66	MP3A	Mx	-.003	2
67	MP3B	X	-3.881	2
68	MP3B	Z	6.723	2
69	MP3B	Mx	.004	2
70	MP3C	X	-6.059	2
71	MP3C	Z	10.494	2
72	MP3C	Mx	-.002	2
73	M101	X	-9.965	1.5
74	M101	Z	17.26	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-11.737	1
77	MP4A	Z	20.328	1
78	MP4A	Mx	.006	1
79	MP4A	X	-11.737	4
80	MP4A	Z	20.328	4
81	MP4A	Mx	.006	4
82	MP4C	X	-7.045	1
83	MP4C	Z	12.202	1
84	MP4C	Mx	.002	1
85	MP4C	X	-7.045	4
86	MP4C	Z	12.202	4
87	MP4C	Mx	.002	4
88	MP4B	X	-4.387	1
89	MP4B	Z	7.598	1
90	MP4B	Mx	-.004	1
91	MP4B	X	-4.387	4
92	MP4B	Z	7.598	4
93	MP4B	Mx	-.004	4
94	M103	X	-6.793	1.5
95	M103	Z	11.766	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.143	.5
2	MP2A	Z	9.32	.5
3	MP2A	Mx	.014	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-16.143	4.5
5	MP2A	Z	9.32	4.5
6	MP2A	Mx	.014	4.5
7	MP2B	X	-17.696	.5
8	MP2B	Z	10.217	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	-17.696	4.5
11	MP2B	Z	10.217	4.5
12	MP2B	Mx	.001	4.5
13	MP2C	X	-20.386	.5
14	MP2C	Z	11.77	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	-20.386	4.5
17	MP2C	Z	11.77	4.5
18	MP2C	Mx	-.016	4.5
19	MP2A	X	-16.143	.5
20	MP2A	Z	9.32	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	-16.143	4.5
23	MP2A	Z	9.32	4.5
24	MP2A	Mx	.003	4.5
25	MP2B	X	-17.696	.5
26	MP2B	Z	10.217	.5
27	MP2B	Mx	-.016	.5
28	MP2B	X	-17.696	4.5
29	MP2B	Z	10.217	4.5
30	MP2B	Mx	-.016	4.5
31	MP2C	X	-20.386	.5
32	MP2C	Z	11.77	.5
33	MP2C	Mx	.01	.5
34	MP2C	X	-20.386	4.5
35	MP2C	Z	11.77	4.5
36	MP2C	Mx	.01	4.5
37	MP1A	X	-7.264	1.5
38	MP1A	Z	4.194	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-7.264	3.5
41	MP1A	Z	4.194	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-9.008	1.5
44	MP1B	Z	5.2	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	-9.008	3.5
47	MP1B	Z	5.2	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	-12.028	1.5
50	MP1C	Z	6.944	1.5
51	MP1C	Mx	-.002	1.5
52	MP1C	X	-12.028	3.5
53	MP1C	Z	6.944	3.5
54	MP1C	Mx	-.002	3.5
55	MP2A	X	-8.419	2
56	MP2A	Z	4.861	2
57	MP2A	Mx	-.004	2
58	MP2B	X	-9.208	2
59	MP2B	Z	5.316	2
60	MP2B	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2C	X	-10.574	2
62	MP2C	Z	6.105	2
63	MP2C	Mx	.002	2
64	MP3A	X	-7.52	2
65	MP3A	Z	4.342	2
66	MP3A	Mx	-.004	2
67	MP3B	X	-8.608	2
68	MP3B	Z	4.97	2
69	MP3B	Mx	.004	2
70	MP3C	X	-10.494	2
71	MP3C	Z	6.059	2
72	MP3C	Mx	.002	2
73	M101	X	-14.573	1.5
74	M101	Z	8.414	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-13.29	1
77	MP4A	Z	7.673	1
78	MP4A	Mx	.007	1
79	MP4A	X	-13.29	4
80	MP4A	Z	7.673	4
81	MP4A	Mx	.007	4
82	MP4C	X	-12.202	1
83	MP4C	Z	7.045	1
84	MP4C	Mx	-.002	1
85	MP4C	X	-12.202	4
86	MP4C	Z	7.045	4
87	MP4C	Mx	-.002	4
88	MP4B	X	-9.9	1
89	MP4B	Z	5.716	1
90	MP4B	Mx	-.004	1
91	MP4B	X	-9.9	4
92	MP4B	Z	5.716	4
93	MP4B	Mx	-.004	4
94	M103	X	-9.899	1.5
95	M103	Z	5.715	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.847	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.008	.5
4	MP2A	X	-16.847	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	.008	4.5
7	MP2B	X	-23.54	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.01	.5
10	MP2B	X	-23.54	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	.01	4.5
13	MP2C	X	-20.434	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	-20.434	4.5
17	MP2C	Z	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	-.016	4.5
19	MP2A	X	-16.847	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.008	.5
22	MP2A	X	-16.847	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	.008	4.5
25	MP2B	X	-23.54	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.016	.5
28	MP2B	X	-23.54	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	-.016	4.5
31	MP2C	X	-20.434	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.001	.5
34	MP2C	X	-20.434	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	.001	4.5
37	MP1A	X	-6.374	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.003	1.5
40	MP1A	X	-6.374	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-13.888	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.002	1.5
46	MP1B	X	-13.888	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.002	3.5
49	MP1C	X	-10.401	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	-10.401	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.004	3.5
55	MP2A	X	-8.811	2
56	MP2A	Z	0	2
57	MP2A	Mx	-.004	2
58	MP2B	X	-12.21	2
59	MP2B	Z	0	2
60	MP2B	Mx	.002	2
61	MP2C	X	-10.633	2
62	MP2C	Z	0	2
63	MP2C	Mx	.004	2
64	MP3A	X	-7.426	2
65	MP3A	Z	0	2
66	MP3A	Mx	-.004	2
67	MP3B	X	-12.118	2
68	MP3B	Z	0	2
69	MP3B	Mx	.002	2
70	MP3C	X	-9.94	2
71	MP3C	Z	0	2
72	MP3C	Mx	.004	2
73	M101	X	-16.827	1.5
74	M101	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101	Mx	0	1.5
76	MP4A	X	-11.282	1
77	MP4A	Z	0	1
78	MP4A	Mx	.006	1
79	MP4A	X	-11.282	4
80	MP4A	Z	0	4
81	MP4A	Mx	.006	4
82	MP4C	X	-11.431	1
83	MP4C	Z	0	1
84	MP4C	Mx	-.004	1
85	MP4C	X	-11.431	4
86	MP4C	Z	0	4
87	MP4C	Mx	-.004	4
88	MP4B	X	-14.09	1
89	MP4B	Z	0	1
90	MP4B	Mx	-.002	1
91	MP4B	X	-14.09	4
92	MP4B	Z	0	4
93	MP4B	Mx	-.002	4
94	M103	X	-11.431	1.5
95	M103	Z	0	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.143	.5
2	MP2A	Z	-9.32	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-16.143	4.5
5	MP2A	Z	-9.32	4.5
6	MP2A	Mx	.003	4.5
7	MP2B	X	-20.386	.5
8	MP2B	Z	-11.77	.5
9	MP2B	Mx	.016	.5
10	MP2B	X	-20.386	4.5
11	MP2B	Z	-11.77	4.5
12	MP2B	Mx	.016	4.5
13	MP2C	X	-15.006	.5
14	MP2C	Z	-8.664	.5
15	MP2C	Mx	-.011	.5
16	MP2C	X	-15.006	4.5
17	MP2C	Z	-8.664	4.5
18	MP2C	Mx	-.011	4.5
19	MP2A	X	-16.143	.5
20	MP2A	Z	-9.32	.5
21	MP2A	Mx	.014	.5
22	MP2A	X	-16.143	4.5
23	MP2A	Z	-9.32	4.5
24	MP2A	Mx	.014	4.5
25	MP2B	X	-20.386	.5
26	MP2B	Z	-11.77	.5
27	MP2B	Mx	-.01	.5
28	MP2B	X	-20.386	4.5
29	MP2B	Z	-11.77	4.5
30	MP2B	Mx	-.01	4.5
31	MP2C	X	-15.006	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2C	Z	-8.664	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	-15.006	4.5
35	MP2C	Z	-8.664	4.5
36	MP2C	Mx	-.006	4.5
37	MP1A	X	-7.264	1.5
38	MP1A	Z	-4.194	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-7.264	3.5
41	MP1A	Z	-4.194	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-12.028	1.5
44	MP1B	Z	-6.944	1.5
45	MP1B	Mx	.002	1.5
46	MP1B	X	-12.028	3.5
47	MP1B	Z	-6.944	3.5
48	MP1B	Mx	.002	3.5
49	MP1C	X	-5.987	1.5
50	MP1C	Z	-3.457	1.5
51	MP1C	Mx	-.003	1.5
52	MP1C	X	-5.987	3.5
53	MP1C	Z	-3.457	3.5
54	MP1C	Mx	-.003	3.5
55	MP2A	X	-8.419	2
56	MP2A	Z	-4.861	2
57	MP2A	Mx	-.004	2
58	MP2B	X	-10.574	2
59	MP2B	Z	-6.105	2
60	MP2B	Mx	-.002	2
61	MP2C	X	-7.842	2
62	MP2C	Z	-4.527	2
63	MP2C	Mx	.004	2
64	MP3A	X	-7.52	2
65	MP3A	Z	-4.342	2
66	MP3A	Mx	-.004	2
67	MP3B	X	-10.494	2
68	MP3B	Z	-6.059	2
69	MP3B	Mx	-.002	2
70	MP3C	X	-6.723	2
71	MP3C	Z	-3.881	2
72	MP3C	Mx	.004	2
73	M101	X	-17.26	1.5
74	M101	Z	-9.965	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-13.29	1
77	MP4A	Z	-7.673	1
78	MP4A	Mx	.007	1
79	MP4A	X	-13.29	4
80	MP4A	Z	-7.673	4
81	MP4A	Mx	.007	4
82	MP4C	X	-7.598	1
83	MP4C	Z	-4.387	1
84	MP4C	Mx	-.004	1
85	MP4C	X	-7.598	4
86	MP4C	Z	-4.387	4
87	MP4C	Mx	-.004	4
88	MP4B	X	-12.202	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP4B	Z	-7.045	1
90	MP4B	Mx	.002	1
91	MP4B	X	-12.202	4
92	MP4B	Z	-7.045	4
93	MP4B	Mx	.002	4
94	M103	X	-11.766	1.5
95	M103	Z	-6.793	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.113	.5
2	MP2A	Z	-19.249	.5
3	MP2A	Mx	-.006	.5
4	MP2A	X	-11.113	4.5
5	MP2A	Z	-19.249	4.5
6	MP2A	Mx	-.006	4.5
7	MP2B	X	-10.217	.5
8	MP2B	Z	-17.696	.5
9	MP2B	Mx	.016	.5
10	MP2B	X	-10.217	4.5
11	MP2B	Z	-17.696	4.5
12	MP2B	Mx	.016	4.5
13	MP2C	X	-8.664	.5
14	MP2C	Z	-15.006	.5
15	MP2C	Mx	-.006	.5
16	MP2C	X	-8.664	4.5
17	MP2C	Z	-15.006	4.5
18	MP2C	Mx	-.006	4.5
19	MP2A	X	-11.113	.5
20	MP2A	Z	-19.249	.5
21	MP2A	Mx	.017	.5
22	MP2A	X	-11.113	4.5
23	MP2A	Z	-19.249	4.5
24	MP2A	Mx	.017	4.5
25	MP2B	X	-10.217	.5
26	MP2B	Z	-17.696	.5
27	MP2B	Mx	-.001	.5
28	MP2B	X	-10.217	4.5
29	MP2B	Z	-17.696	4.5
30	MP2B	Mx	-.001	4.5
31	MP2C	X	-8.664	.5
32	MP2C	Z	-15.006	.5
33	MP2C	Mx	-.011	.5
34	MP2C	X	-8.664	4.5
35	MP2C	Z	-15.006	4.5
36	MP2C	Mx	-.011	4.5
37	MP1A	X	-6.207	1.5
38	MP1A	Z	-10.751	1.5
39	MP1A	Mx	.003	1.5
40	MP1A	X	-6.207	3.5
41	MP1A	Z	-10.751	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-5.2	1.5
44	MP1B	Z	-9.008	1.5
45	MP1B	Mx	.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP1B	X	-5.2	3.5
47	MP1B	Z	-9.008	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	-3.457	1.5
50	MP1C	Z	-5.987	1.5
51	MP1C	Mx	-.003	1.5
52	MP1C	X	-3.457	3.5
53	MP1C	Z	-5.987	3.5
54	MP1C	Mx	-.003	3.5
55	MP2A	X	-5.772	2
56	MP2A	Z	-9.997	2
57	MP2A	Mx	-.003	2
58	MP2B	X	-5.316	2
59	MP2B	Z	-9.208	2
60	MP2B	Mx	-.004	2
61	MP2C	X	-4.527	2
62	MP2C	Z	-7.842	2
63	MP2C	Mx	.004	2
64	MP3A	X	-5.599	2
65	MP3A	Z	-9.697	2
66	MP3A	Mx	-.003	2
67	MP3B	X	-4.97	2
68	MP3B	Z	-8.608	2
69	MP3B	Mx	-.004	2
70	MP3C	X	-3.881	2
71	MP3C	Z	-6.723	2
72	MP3C	Mx	.004	2
73	M101	X	-11.516	1.5
74	M101	Z	-19.947	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-11.737	1
77	MP4A	Z	-20.328	1
78	MP4A	Mx	.006	1
79	MP4A	X	-11.737	4
80	MP4A	Z	-20.328	4
81	MP4A	Mx	.006	4
82	MP4C	X	-4.387	1
83	MP4C	Z	-7.598	1
84	MP4C	Mx	-.004	1
85	MP4C	X	-4.387	4
86	MP4C	Z	-7.598	4
87	MP4C	Mx	-.004	4
88	MP4B	X	-5.716	1
89	MP4B	Z	-9.9	1
90	MP4B	Mx	.004	1
91	MP4B	X	-5.716	4
92	MP4B	Z	-9.9	4
93	MP4B	Mx	.004	4
94	M103	X	-7.871	1.5
95	M103	Z	-13.633	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-7.511	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	-.004	.5
4	MP2A	X	0	4.5
5	MP2A	Z	-7.511	4.5
6	MP2A	Mx	-.004	4.5
7	MP2B	X	0	.5
8	MP2B	Z	-5.136	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	0	4.5
11	MP2B	Z	-5.136	4.5
12	MP2B	Mx	.003	4.5
13	MP2C	X	0	.5
14	MP2C	Z	-6.239	.5
15	MP2C	Mx	.000368	.5
16	MP2C	X	0	4.5
17	MP2C	Z	-6.239	4.5
18	MP2C	Mx	.000368	4.5
19	MP2A	X	0	.5
20	MP2A	Z	-7.511	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	0	4.5
23	MP2A	Z	-7.511	4.5
24	MP2A	Mx	.004	4.5
25	MP2B	X	0	.5
26	MP2B	Z	-5.136	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	0	4.5
29	MP2B	Z	-5.136	4.5
30	MP2B	Mx	.002	4.5
31	MP2C	X	0	.5
32	MP2C	Z	-6.239	.5
33	MP2C	Mx	-.005	.5
34	MP2C	X	0	4.5
35	MP2C	Z	-6.239	4.5
36	MP2C	Mx	-.005	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	-4.369	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-4.369	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-1.889	1.5
45	MP1B	Mx	.000912	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-1.889	3.5
48	MP1B	Mx	.000912	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-3.04	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-3.04	3.5
54	MP1C	Mx	-.001	3.5
55	MP2A	X	0	2
56	MP2A	Z	-3.477	2
57	MP2A	Mx	0	2
58	MP2B	X	0	2
59	MP2B	Z	-2.401	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2B	Mx	-.001	2
61	MP2C	X	0	2
62	MP2C	Z	-2.9	2
63	MP2C	Mx	.001	2
64	MP3A	X	0	2
65	MP3A	Z	-3.477	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	-1.989	2
69	MP3B	Mx	-.000961	2
70	MP3C	X	0	2
71	MP3C	Z	-2.68	2
72	MP3C	Mx	.000948	2
73	M101	X	0	1.5
74	M101	Z	-6.887	1.5
75	M101	Mx	0	1.5
76	MP4A	X	0	1
77	MP4A	Z	-8.794	1
78	MP4A	Mx	0	1
79	MP4A	X	0	4
80	MP4A	Z	-8.794	4
81	MP4A	Mx	0	4
82	MP4C	X	0	1
83	MP4C	Z	-3.328	1
84	MP4C	Mx	-.001	1
85	MP4C	X	0	4
86	MP4C	Z	-3.328	4
87	MP4C	Mx	-.001	4
88	MP4B	X	0	1
89	MP4B	Z	-2.41	1
90	MP4B	Mx	.001	1
91	MP4B	X	0	4
92	MP4B	Z	-2.41	4
93	MP4B	Mx	.001	4
94	M103	X	0	1.5
95	M103	Z	-4.539	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.438	.5
2	MP2A	Z	-5.954	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	3.438	4.5
5	MP2A	Z	-5.954	4.5
6	MP2A	Mx	-.005	4.5
7	MP2B	X	2.568	.5
8	MP2B	Z	-4.448	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	2.568	4.5
11	MP2B	Z	-4.448	4.5
12	MP2B	Mx	.002	4.5
13	MP2C	X	3.67	.5
14	MP2C	Z	-6.357	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	3.67	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	-6.357	4.5
18	MP2C	Mx	.003	4.5
19	MP2A	X	3.438	.5
20	MP2A	Z	-5.954	.5
21	MP2A	Mx	.002	.5
22	MP2A	X	3.438	4.5
23	MP2A	Z	-5.954	4.5
24	MP2A	Mx	.002	4.5
25	MP2B	X	2.568	.5
26	MP2B	Z	-4.448	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	2.568	4.5
29	MP2B	Z	-4.448	4.5
30	MP2B	Mx	.003	4.5
31	MP2C	X	3.67	.5
32	MP2C	Z	-6.357	.5
33	MP2C	Mx	-.005	.5
34	MP2C	X	3.67	4.5
35	MP2C	Z	-6.357	4.5
36	MP2C	Mx	-.005	4.5
37	MP1A	X	1.852	1.5
38	MP1A	Z	-3.208	1.5
39	MP1A	Mx	-.000926	1.5
40	MP1A	X	1.852	3.5
41	MP1A	Z	-3.208	3.5
42	MP1A	Mx	-.000926	3.5
43	MP1B	X	.944	1.5
44	MP1B	Z	-1.636	1.5
45	MP1B	Mx	.000912	1.5
46	MP1B	X	.944	3.5
47	MP1B	Z	-1.636	3.5
48	MP1B	Mx	.000912	3.5
49	MP1C	X	2.096	1.5
50	MP1C	Z	-3.63	1.5
51	MP1C	Mx	-.000542	1.5
52	MP1C	X	2.096	3.5
53	MP1C	Z	-3.63	3.5
54	MP1C	Mx	-.000542	3.5
55	MP2A	X	1.594	2
56	MP2A	Z	-2.761	2
57	MP2A	Mx	.000797	2
58	MP2B	X	1.201	2
59	MP2B	Z	-2.08	2
60	MP2B	Mx	-.001	2
61	MP2C	X	1.7	2
62	MP2C	Z	-2.944	2
63	MP2C	Mx	.00044	2
64	MP3A	X	1.539	2
65	MP3A	Z	-2.666	2
66	MP3A	Mx	.00077	2
67	MP3B	X	.995	2
68	MP3B	Z	-1.723	2
69	MP3B	Mx	-.000961	2
70	MP3C	X	1.685	2
71	MP3C	Z	-2.919	2
72	MP3C	Mx	.000436	2
73	M101	X	2.928	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	M101	Z	-5.071	1.5
75	M101	Mx	0	1.5
76	MP4A	X	3.709	1
77	MP4A	Z	-6.423	1
78	MP4A	Mx	-.002	1
79	MP4A	X	3.709	4
80	MP4A	Z	-6.423	4
81	MP4A	Mx	-.002	4
82	MP4C	X	2.123	1
83	MP4C	Z	-3.677	1
84	MP4C	Mx	-.000549	1
85	MP4C	X	2.123	4
86	MP4C	Z	-3.677	4
87	MP4C	Mx	-.000549	4
88	MP4B	X	1.205	1
89	MP4B	Z	-2.088	1
90	MP4B	Mx	.001	1
91	MP4B	X	1.205	4
92	MP4B	Z	-2.088	4
93	MP4B	Mx	.001	4
94	M103	X	1.917	1.5
95	M103	Z	-3.32	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.852	.5
2	MP2A	Z	-2.801	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	4.852	4.5
5	MP2A	Z	-2.801	4.5
6	MP2A	Mx	-.004	4.5
7	MP2B	X	5.403	.5
8	MP2B	Z	-3.119	.5
9	MP2B	Mx	-.000368	.5
10	MP2B	X	5.403	4.5
11	MP2B	Z	-3.119	4.5
12	MP2B	Mx	-.000368	4.5
13	MP2C	X	6.357	.5
14	MP2C	Z	-3.67	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	6.357	4.5
17	MP2C	Z	-3.67	4.5
18	MP2C	Mx	.005	4.5
19	MP2A	X	4.852	.5
20	MP2A	Z	-2.801	.5
21	MP2A	Mx	-.000792	.5
22	MP2A	X	4.852	4.5
23	MP2A	Z	-2.801	4.5
24	MP2A	Mx	-.000792	4.5
25	MP2B	X	5.403	.5
26	MP2B	Z	-3.119	.5
27	MP2B	Mx	.005	.5
28	MP2B	X	5.403	4.5
29	MP2B	Z	-3.119	4.5
30	MP2B	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	6.357	.5
32	MP2C	Z	-3.67	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	6.357	4.5
35	MP2C	Z	-3.67	4.5
36	MP2C	Mx	-.003	4.5
37	MP1A	X	2.057	1.5
38	MP1A	Z	-1.188	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.057	3.5
41	MP1A	Z	-1.188	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	2.633	1.5
44	MP1B	Z	-1.52	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	2.633	3.5
47	MP1B	Z	-1.52	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	3.63	1.5
50	MP1C	Z	-2.096	1.5
51	MP1C	Mx	.000542	1.5
52	MP1C	X	3.63	3.5
53	MP1C	Z	-2.096	3.5
54	MP1C	Mx	.000542	3.5
55	MP2A	X	2.262	2
56	MP2A	Z	-1.306	2
57	MP2A	Mx	.001	2
58	MP2B	X	2.512	2
59	MP2B	Z	-1.45	2
60	MP2B	Mx	-.001	2
61	MP2C	X	2.944	2
62	MP2C	Z	-1.7	2
63	MP2C	Mx	-.00044	2
64	MP3A	X	1.975	2
65	MP3A	Z	-1.141	2
66	MP3A	Mx	.000988	2
67	MP3B	X	2.321	2
68	MP3B	Z	-1.34	2
69	MP3B	Mx	-.000948	2
70	MP3C	X	2.919	2
71	MP3C	Z	-1.685	2
72	MP3C	Mx	-.000436	2
73	M101	X	4.178	1.5
74	M101	Z	-2.412	1.5
75	M101	Mx	0	1.5
76	MP4A	X	4.038	1
77	MP4A	Z	-2.331	1
78	MP4A	Mx	-.002	1
79	MP4A	X	4.038	4
80	MP4A	Z	-2.331	4
81	MP4A	Mx	-.002	4
82	MP4C	X	3.677	1
83	MP4C	Z	-2.123	1
84	MP4C	Mx	.000549	1
85	MP4C	X	3.677	4
86	MP4C	Z	-2.123	4
87	MP4C	Mx	.000549	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP4B	X	2.882	1
89	MP4B	Z	-1.664	1
90	MP4B	Mx	.001	1
91	MP4B	X	2.882	4
92	MP4B	Z	-1.664	4
93	MP4B	Mx	.001	4
94	M103	X	2.709	1.5
95	M103	Z	-1.564	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.966	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.002	.5
4	MP2A	X	4.966	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	-.002	4.5
7	MP2B	X	7.341	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	7.341	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	-.003	4.5
13	MP2C	X	6.239	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	6.239	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	.005	4.5
19	MP2A	X	4.966	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.002	.5
22	MP2A	X	4.966	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	-.002	4.5
25	MP2B	X	7.341	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.005	.5
28	MP2B	X	7.341	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	.005	4.5
31	MP2C	X	6.239	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.000368	.5
34	MP2C	X	6.239	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	-.000368	4.5
37	MP1A	X	1.711	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.000856	1.5
40	MP1A	X	1.711	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.000856	3.5
43	MP1B	X	4.191	1.5
44	MP1B	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	.000542	1.5
46	MP1B	X	4.191	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.000542	3.5
49	MP1C	X	3.04	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	3.04	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.001	3.5
55	MP2A	X	2.324	2
56	MP2A	Z	0	2
57	MP2A	Mx	.001	2
58	MP2B	X	3.4	2
59	MP2B	Z	0	2
60	MP2B	Mx	-.00044	2
61	MP2C	X	2.9	2
62	MP2C	Z	0	2
63	MP2C	Mx	-.001	2
64	MP3A	X	1.883	2
65	MP3A	Z	0	2
66	MP3A	Mx	.000942	2
67	MP3B	X	3.37	2
68	MP3B	Z	0	2
69	MP3B	Mx	-.000436	2
70	MP3C	X	2.68	2
71	MP3C	Z	0	2
72	MP3C	Mx	-.000948	2
73	M101	X	4.824	1.5
74	M101	Z	0	1.5
75	M101	Mx	0	1.5
76	MP4A	X	3.285	1
77	MP4A	Z	0	1
78	MP4A	Mx	-.002	1
79	MP4A	X	3.285	4
80	MP4A	Z	0	4
81	MP4A	Mx	-.002	4
82	MP4C	X	3.328	1
83	MP4C	Z	0	1
84	MP4C	Mx	.001	1
85	MP4C	X	3.328	4
86	MP4C	Z	0	4
87	MP4C	Mx	.001	4
88	MP4B	X	4.246	1
89	MP4B	Z	0	1
90	MP4B	Mx	.000549	1
91	MP4B	X	4.246	4
92	MP4B	Z	0	4
93	MP4B	Mx	.000549	4
94	M103	X	3.128	1.5
95	M103	Z	0	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.852	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	2.801	.5
3	MP2A	Mx	-.000792	.5
4	MP2A	X	4.852	4.5
5	MP2A	Z	2.801	4.5
6	MP2A	Mx	-.000792	4.5
7	MP2B	X	6.357	.5
8	MP2B	Z	3.67	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	6.357	4.5
11	MP2B	Z	3.67	4.5
12	MP2B	Mx	-.005	4.5
13	MP2C	X	4.448	.5
14	MP2C	Z	2.568	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	4.448	4.5
17	MP2C	Z	2.568	4.5
18	MP2C	Mx	.003	4.5
19	MP2A	X	4.852	.5
20	MP2A	Z	2.801	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	4.852	4.5
23	MP2A	Z	2.801	4.5
24	MP2A	Mx	-.004	4.5
25	MP2B	X	6.357	.5
26	MP2B	Z	3.67	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	6.357	4.5
29	MP2B	Z	3.67	4.5
30	MP2B	Mx	.003	4.5
31	MP2C	X	4.448	.5
32	MP2C	Z	2.568	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	4.448	4.5
35	MP2C	Z	2.568	4.5
36	MP2C	Mx	.002	4.5
37	MP1A	X	2.057	1.5
38	MP1A	Z	1.188	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.057	3.5
41	MP1A	Z	1.188	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	3.63	1.5
44	MP1B	Z	2.096	1.5
45	MP1B	Mx	-.000543	1.5
46	MP1B	X	3.63	3.5
47	MP1B	Z	2.096	3.5
48	MP1B	Mx	-.000543	3.5
49	MP1C	X	1.636	1.5
50	MP1C	Z	.944	1.5
51	MP1C	Mx	.000912	1.5
52	MP1C	X	1.636	3.5
53	MP1C	Z	.944	3.5
54	MP1C	Mx	.000912	3.5
55	MP2A	X	2.262	2
56	MP2A	Z	1.306	2
57	MP2A	Mx	.001	2
58	MP2B	X	2.944	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2B	Z	1.7	2
60	MP2B	Mx	.00044	2
61	MP2C	X	2.08	2
62	MP2C	Z	1.201	2
63	MP2C	Mx	-.001	2
64	MP3A	X	1.975	2
65	MP3A	Z	1.141	2
66	MP3A	Mx	.000988	2
67	MP3B	X	2.919	2
68	MP3B	Z	1.685	2
69	MP3B	Mx	.000436	2
70	MP3C	X	1.723	2
71	MP3C	Z	.995	2
72	MP3C	Mx	-.000961	2
73	M101	X	5.071	1.5
74	M101	Z	2.928	1.5
75	M101	Mx	0	1.5
76	MP4A	X	4.038	1
77	MP4A	Z	2.331	1
78	MP4A	Mx	-.002	1
79	MP4A	X	4.038	4
80	MP4A	Z	2.331	4
81	MP4A	Mx	-.002	4
82	MP4C	X	2.088	1
83	MP4C	Z	1.205	1
84	MP4C	Mx	.001	1
85	MP4C	X	2.088	4
86	MP4C	Z	1.205	4
87	MP4C	Mx	.001	4
88	MP4B	X	3.677	1
89	MP4B	Z	2.123	1
90	MP4B	Mx	-.000549	1
91	MP4B	X	3.677	4
92	MP4B	Z	2.123	4
93	MP4B	Mx	-.000549	4
94	M103	X	3.32	1.5
95	M103	Z	1.917	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.438	.5
2	MP2A	Z	5.954	.5
3	MP2A	Mx	.002	.5
4	MP2A	X	3.438	4.5
5	MP2A	Z	5.954	4.5
6	MP2A	Mx	.002	4.5
7	MP2B	X	3.119	.5
8	MP2B	Z	5.403	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	3.119	4.5
11	MP2B	Z	5.403	4.5
12	MP2B	Mx	-.005	4.5
13	MP2C	X	2.568	.5
14	MP2C	Z	4.448	.5
15	MP2C	Mx	.002	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	2.568	4.5
17	MP2C	Z	4.448	4.5
18	MP2C	Mx	.002	4.5
19	MP2A	X	3.438	.5
20	MP2A	Z	5.954	.5
21	MP2A	Mx	-.005	.5
22	MP2A	X	3.438	4.5
23	MP2A	Z	5.954	4.5
24	MP2A	Mx	-.005	4.5
25	MP2B	X	3.119	.5
26	MP2B	Z	5.403	.5
27	MP2B	Mx	.000367	.5
28	MP2B	X	3.119	4.5
29	MP2B	Z	5.403	4.5
30	MP2B	Mx	.000367	4.5
31	MP2C	X	2.568	.5
32	MP2C	Z	4.448	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	2.568	4.5
35	MP2C	Z	4.448	4.5
36	MP2C	Mx	.003	4.5
37	MP1A	X	1.852	1.5
38	MP1A	Z	3.208	1.5
39	MP1A	Mx	-.000926	1.5
40	MP1A	X	1.852	3.5
41	MP1A	Z	3.208	3.5
42	MP1A	Mx	-.000926	3.5
43	MP1B	X	1.52	1.5
44	MP1B	Z	2.633	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	1.52	3.5
47	MP1B	Z	2.633	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	.944	1.5
50	MP1C	Z	1.636	1.5
51	MP1C	Mx	.000912	1.5
52	MP1C	X	.944	3.5
53	MP1C	Z	1.636	3.5
54	MP1C	Mx	.000912	3.5
55	MP2A	X	1.594	2
56	MP2A	Z	2.761	2
57	MP2A	Mx	.000797	2
58	MP2B	X	1.45	2
59	MP2B	Z	2.512	2
60	MP2B	Mx	.001	2
61	MP2C	X	1.201	2
62	MP2C	Z	2.08	2
63	MP2C	Mx	-.001	2
64	MP3A	X	1.539	2
65	MP3A	Z	2.666	2
66	MP3A	Mx	.00077	2
67	MP3B	X	1.34	2
68	MP3B	Z	2.321	2
69	MP3B	Mx	.000948	2
70	MP3C	X	.995	2
71	MP3C	Z	1.723	2
72	MP3C	Mx	-.000961	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	M101	X	3.444	1.5
74	M101	Z	5.964	1.5
75	M101	Mx	0	1.5
76	MP4A	X	3.709	1
77	MP4A	Z	6.423	1
78	MP4A	Mx	-.002	1
79	MP4A	X	3.709	4
80	MP4A	Z	6.423	4
81	MP4A	Mx	-.002	4
82	MP4C	X	1.205	1
83	MP4C	Z	2.088	1
84	MP4C	Mx	.001	1
85	MP4C	X	1.205	4
86	MP4C	Z	2.088	4
87	MP4C	Mx	.001	4
88	MP4B	X	1.664	1
89	MP4B	Z	2.882	1
90	MP4B	Mx	-.001	1
91	MP4B	X	1.664	4
92	MP4B	Z	2.882	4
93	MP4B	Mx	-.001	4
94	M103	X	2.269	1.5
95	M103	Z	3.931	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	7.511	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	0	4.5
5	MP2A	Z	7.511	4.5
6	MP2A	Mx	.004	4.5
7	MP2B	X	0	.5
8	MP2B	Z	5.136	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	0	4.5
11	MP2B	Z	5.136	4.5
12	MP2B	Mx	-.003	4.5
13	MP2C	X	0	.5
14	MP2C	Z	6.239	.5
15	MP2C	Mx	-.000368	.5
16	MP2C	X	0	4.5
17	MP2C	Z	6.239	4.5
18	MP2C	Mx	-.000368	4.5
19	MP2A	X	0	.5
20	MP2A	Z	7.511	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	0	4.5
23	MP2A	Z	7.511	4.5
24	MP2A	Mx	-.004	4.5
25	MP2B	X	0	.5
26	MP2B	Z	5.136	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	0	4.5
29	MP2B	Z	5.136	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.002	4.5
31	MP2C	X	0	.5
32	MP2C	Z	6.239	.5
33	MP2C	Mx	.005	.5
34	MP2C	X	0	4.5
35	MP2C	Z	6.239	4.5
36	MP2C	Mx	.005	4.5
37	MP1A	X	0	1.5
38	MP1A	Z	4.369	1.5
39	MP1A	Mx	0	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	4.369	3.5
42	MP1A	Mx	0	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	1.889	1.5
45	MP1B	Mx	-.000912	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	1.889	3.5
48	MP1B	Mx	-.000912	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	3.04	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	3.04	3.5
54	MP1C	Mx	.001	3.5
55	MP2A	X	0	2
56	MP2A	Z	3.477	2
57	MP2A	Mx	0	2
58	MP2B	X	0	2
59	MP2B	Z	2.401	2
60	MP2B	Mx	.001	2
61	MP2C	X	0	2
62	MP2C	Z	2.9	2
63	MP2C	Mx	-.001	2
64	MP3A	X	0	2
65	MP3A	Z	3.477	2
66	MP3A	Mx	0	2
67	MP3B	X	0	2
68	MP3B	Z	1.989	2
69	MP3B	Mx	.000961	2
70	MP3C	X	0	2
71	MP3C	Z	2.68	2
72	MP3C	Mx	-.000948	2
73	M101	X	0	1.5
74	M101	Z	6.887	1.5
75	M101	Mx	0	1.5
76	MP4A	X	0	1
77	MP4A	Z	8.794	1
78	MP4A	Mx	0	1
79	MP4A	X	0	4
80	MP4A	Z	8.794	4
81	MP4A	Mx	0	4
82	MP4C	X	0	1
83	MP4C	Z	3.328	1
84	MP4C	Mx	.001	1
85	MP4C	X	0	4
86	MP4C	Z	3.328	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4C	Mx	.001	4
88	MP4B	X	0	1
89	MP4B	Z	2.41	1
90	MP4B	Mx	-.001	1
91	MP4B	X	0	4
92	MP4B	Z	2.41	4
93	MP4B	Mx	-.001	4
94	M103	X	0	1.5
95	M103	Z	4.539	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.438	.5
2	MP2A	Z	5.954	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-3.438	4.5
5	MP2A	Z	5.954	4.5
6	MP2A	Mx	.005	4.5
7	MP2B	X	-2.568	.5
8	MP2B	Z	4.448	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	-2.568	4.5
11	MP2B	Z	4.448	4.5
12	MP2B	Mx	-.002	4.5
13	MP2C	X	-3.67	.5
14	MP2C	Z	6.357	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	-3.67	4.5
17	MP2C	Z	6.357	4.5
18	MP2C	Mx	-.003	4.5
19	MP2A	X	-3.438	.5
20	MP2A	Z	5.954	.5
21	MP2A	Mx	-.002	.5
22	MP2A	X	-3.438	4.5
23	MP2A	Z	5.954	4.5
24	MP2A	Mx	-.002	4.5
25	MP2B	X	-2.568	.5
26	MP2B	Z	4.448	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	-2.568	4.5
29	MP2B	Z	4.448	4.5
30	MP2B	Mx	-.003	4.5
31	MP2C	X	-3.67	.5
32	MP2C	Z	6.357	.5
33	MP2C	Mx	.005	.5
34	MP2C	X	-3.67	4.5
35	MP2C	Z	6.357	4.5
36	MP2C	Mx	.005	4.5
37	MP1A	X	-1.852	1.5
38	MP1A	Z	3.208	1.5
39	MP1A	Mx	.000926	1.5
40	MP1A	X	-1.852	3.5
41	MP1A	Z	3.208	3.5
42	MP1A	Mx	.000926	3.5
43	MP1B	X	-.944	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	1.636	1.5
45	MP1B	Mx	-.000912	1.5
46	MP1B	X	-.944	3.5
47	MP1B	Z	1.636	3.5
48	MP1B	Mx	-.000912	3.5
49	MP1C	X	-2.096	1.5
50	MP1C	Z	3.63	1.5
51	MP1C	Mx	.000542	1.5
52	MP1C	X	-2.096	3.5
53	MP1C	Z	3.63	3.5
54	MP1C	Mx	.000542	3.5
55	MP2A	X	-1.594	2
56	MP2A	Z	2.761	2
57	MP2A	Mx	-.000797	2
58	MP2B	X	-1.201	2
59	MP2B	Z	2.08	2
60	MP2B	Mx	.001	2
61	MP2C	X	-1.7	2
62	MP2C	Z	2.944	2
63	MP2C	Mx	-.00044	2
64	MP3A	X	-1.539	2
65	MP3A	Z	2.666	2
66	MP3A	Mx	-.00077	2
67	MP3B	X	-.995	2
68	MP3B	Z	1.723	2
69	MP3B	Mx	.000961	2
70	MP3C	X	-1.685	2
71	MP3C	Z	2.919	2
72	MP3C	Mx	-.000436	2
73	M101	X	-2.928	1.5
74	M101	Z	5.071	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-3.709	1
77	MP4A	Z	6.423	1
78	MP4A	Mx	.002	1
79	MP4A	X	-3.709	4
80	MP4A	Z	6.423	4
81	MP4A	Mx	.002	4
82	MP4C	X	-2.123	1
83	MP4C	Z	3.677	1
84	MP4C	Mx	.000549	1
85	MP4C	X	-2.123	4
86	MP4C	Z	3.677	4
87	MP4C	Mx	.000549	4
88	MP4B	X	-1.205	1
89	MP4B	Z	2.088	1
90	MP4B	Mx	-.001	1
91	MP4B	X	-1.205	4
92	MP4B	Z	2.088	4
93	MP4B	Mx	-.001	4
94	M103	X	-1.917	1.5
95	M103	Z	3.32	1.5
96	M103	Mx	0	1.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.852	.5
2	MP2A	Z	2.801	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-4.852	4.5
5	MP2A	Z	2.801	4.5
6	MP2A	Mx	.004	4.5
7	MP2B	X	-5.403	.5
8	MP2B	Z	3.119	.5
9	MP2B	Mx	.000368	.5
10	MP2B	X	-5.403	4.5
11	MP2B	Z	3.119	4.5
12	MP2B	Mx	.000368	4.5
13	MP2C	X	-6.357	.5
14	MP2C	Z	3.67	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	-6.357	4.5
17	MP2C	Z	3.67	4.5
18	MP2C	Mx	-.005	4.5
19	MP2A	X	-4.852	.5
20	MP2A	Z	2.801	.5
21	MP2A	Mx	.000792	.5
22	MP2A	X	-4.852	4.5
23	MP2A	Z	2.801	4.5
24	MP2A	Mx	.000792	4.5
25	MP2B	X	-5.403	.5
26	MP2B	Z	3.119	.5
27	MP2B	Mx	-.005	.5
28	MP2B	X	-5.403	4.5
29	MP2B	Z	3.119	4.5
30	MP2B	Mx	-.005	4.5
31	MP2C	X	-6.357	.5
32	MP2C	Z	3.67	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	-6.357	4.5
35	MP2C	Z	3.67	4.5
36	MP2C	Mx	.003	4.5
37	MP1A	X	-2.057	1.5
38	MP1A	Z	1.188	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.057	3.5
41	MP1A	Z	1.188	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-2.633	1.5
44	MP1B	Z	1.52	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	-2.633	3.5
47	MP1B	Z	1.52	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	-3.63	1.5
50	MP1C	Z	2.096	1.5
51	MP1C	Mx	-.000542	1.5
52	MP1C	X	-3.63	3.5
53	MP1C	Z	2.096	3.5
54	MP1C	Mx	-.000542	3.5
55	MP2A	X	-2.262	2
56	MP2A	Z	1.306	2
57	MP2A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	-2.512	2
59	MP2B	Z	1.45	2
60	MP2B	Mx	.001	2
61	MP2C	X	-2.944	2
62	MP2C	Z	1.7	2
63	MP2C	Mx	.00044	2
64	MP3A	X	-1.975	2
65	MP3A	Z	1.141	2
66	MP3A	Mx	-.000988	2
67	MP3B	X	-2.321	2
68	MP3B	Z	1.34	2
69	MP3B	Mx	.000948	2
70	MP3C	X	-2.919	2
71	MP3C	Z	1.685	2
72	MP3C	Mx	.000436	2
73	M101	X	-4.178	1.5
74	M101	Z	2.412	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-4.038	1
77	MP4A	Z	2.331	1
78	MP4A	Mx	.002	1
79	MP4A	X	-4.038	4
80	MP4A	Z	2.331	4
81	MP4A	Mx	.002	4
82	MP4C	X	-3.677	1
83	MP4C	Z	2.123	1
84	MP4C	Mx	-.000549	1
85	MP4C	X	-3.677	4
86	MP4C	Z	2.123	4
87	MP4C	Mx	-.000549	4
88	MP4B	X	-2.882	1
89	MP4B	Z	1.664	1
90	MP4B	Mx	-.001	1
91	MP4B	X	-2.882	4
92	MP4B	Z	1.664	4
93	MP4B	Mx	-.001	4
94	M103	X	-2.709	1.5
95	M103	Z	1.564	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.966	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.002	.5
4	MP2A	X	-4.966	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	.002	4.5
7	MP2B	X	-7.341	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	-7.341	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	.003	4.5
13	MP2C	X	-6.239	.5
14	MP2C	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2C	Mx	-.005	.5
16	MP2C	X	-6.239	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	-.005	4.5
19	MP2A	X	-4.966	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.002	.5
22	MP2A	X	-4.966	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	.002	4.5
25	MP2B	X	-7.341	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.005	.5
28	MP2B	X	-7.341	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	-.005	4.5
31	MP2C	X	-6.239	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.000368	.5
34	MP2C	X	-6.239	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	.000368	4.5
37	MP1A	X	-1.711	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.000856	1.5
40	MP1A	X	-1.711	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.000856	3.5
43	MP1B	X	-4.191	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.000542	1.5
46	MP1B	X	-4.191	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.000542	3.5
49	MP1C	X	-3.04	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	-3.04	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.001	3.5
55	MP2A	X	-2.324	2
56	MP2A	Z	0	2
57	MP2A	Mx	-.001	2
58	MP2B	X	-3.4	2
59	MP2B	Z	0	2
60	MP2B	Mx	.00044	2
61	MP2C	X	-2.9	2
62	MP2C	Z	0	2
63	MP2C	Mx	.001	2
64	MP3A	X	-1.883	2
65	MP3A	Z	0	2
66	MP3A	Mx	-.000942	2
67	MP3B	X	-3.37	2
68	MP3B	Z	0	2
69	MP3B	Mx	.000436	2
70	MP3C	X	-2.68	2
71	MP3C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3C	Mx	.000948	2
73	M101	X	-4.824	1.5
74	M101	Z	0	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-3.285	1
77	MP4A	Z	0	1
78	MP4A	Mx	.002	1
79	MP4A	X	-3.285	4
80	MP4A	Z	0	4
81	MP4A	Mx	.002	4
82	MP4C	X	-3.328	1
83	MP4C	Z	0	1
84	MP4C	Mx	-.001	1
85	MP4C	X	-3.328	4
86	MP4C	Z	0	4
87	MP4C	Mx	-.001	4
88	MP4B	X	-4.246	1
89	MP4B	Z	0	1
90	MP4B	Mx	-.000549	1
91	MP4B	X	-4.246	4
92	MP4B	Z	0	4
93	MP4B	Mx	-.000549	4
94	M103	X	-3.128	1.5
95	M103	Z	0	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.852	.5
2	MP2A	Z	-2.801	.5
3	MP2A	Mx	.000792	.5
4	MP2A	X	-4.852	4.5
5	MP2A	Z	-2.801	4.5
6	MP2A	Mx	.000792	4.5
7	MP2B	X	-6.357	.5
8	MP2B	Z	-3.67	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	-6.357	4.5
11	MP2B	Z	-3.67	4.5
12	MP2B	Mx	.005	4.5
13	MP2C	X	-4.448	.5
14	MP2C	Z	-2.568	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	-4.448	4.5
17	MP2C	Z	-2.568	4.5
18	MP2C	Mx	-.003	4.5
19	MP2A	X	-4.852	.5
20	MP2A	Z	-2.801	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	-4.852	4.5
23	MP2A	Z	-2.801	4.5
24	MP2A	Mx	.004	4.5
25	MP2B	X	-6.357	.5
26	MP2B	Z	-3.67	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	-6.357	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-3.67	4.5
30	MP2B	Mx	-.003	4.5
31	MP2C	X	-4.448	.5
32	MP2C	Z	-2.568	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	-4.448	4.5
35	MP2C	Z	-2.568	4.5
36	MP2C	Mx	-.002	4.5
37	MP1A	X	-2.057	1.5
38	MP1A	Z	-1.188	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.057	3.5
41	MP1A	Z	-1.188	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-3.63	1.5
44	MP1B	Z	-2.096	1.5
45	MP1B	Mx	.000543	1.5
46	MP1B	X	-3.63	3.5
47	MP1B	Z	-2.096	3.5
48	MP1B	Mx	.000543	3.5
49	MP1C	X	-1.636	1.5
50	MP1C	Z	-.944	1.5
51	MP1C	Mx	-.000912	1.5
52	MP1C	X	-1.636	3.5
53	MP1C	Z	-.944	3.5
54	MP1C	Mx	-.000912	3.5
55	MP2A	X	-2.262	2
56	MP2A	Z	-1.306	2
57	MP2A	Mx	-.001	2
58	MP2B	X	-2.944	2
59	MP2B	Z	-1.7	2
60	MP2B	Mx	-.00044	2
61	MP2C	X	-2.08	2
62	MP2C	Z	-1.201	2
63	MP2C	Mx	.001	2
64	MP3A	X	-1.975	2
65	MP3A	Z	-1.141	2
66	MP3A	Mx	-.000988	2
67	MP3B	X	-2.919	2
68	MP3B	Z	-1.685	2
69	MP3B	Mx	-.000436	2
70	MP3C	X	-1.723	2
71	MP3C	Z	-.995	2
72	MP3C	Mx	.000961	2
73	M101	X	-5.071	1.5
74	M101	Z	-2.928	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-4.038	1
77	MP4A	Z	-2.331	1
78	MP4A	Mx	.002	1
79	MP4A	X	-4.038	4
80	MP4A	Z	-2.331	4
81	MP4A	Mx	.002	4
82	MP4C	X	-2.088	1
83	MP4C	Z	-1.205	1
84	MP4C	Mx	-.001	1
85	MP4C	X	-2.088	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP4C	Z	-1.205	4
87	MP4C	Mx	-.001	4
88	MP4B	X	-3.677	1
89	MP4B	Z	-2.123	1
90	MP4B	Mx	.000549	1
91	MP4B	X	-3.677	4
92	MP4B	Z	-2.123	4
93	MP4B	Mx	.000549	4
94	M103	X	-3.32	1.5
95	M103	Z	-1.917	1.5
96	M103	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.438	.5
2	MP2A	Z	-5.954	.5
3	MP2A	Mx	-.002	.5
4	MP2A	X	-3.438	4.5
5	MP2A	Z	-5.954	4.5
6	MP2A	Mx	-.002	4.5
7	MP2B	X	-3.119	.5
8	MP2B	Z	-5.403	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	-3.119	4.5
11	MP2B	Z	-5.403	4.5
12	MP2B	Mx	.005	4.5
13	MP2C	X	-2.568	.5
14	MP2C	Z	-4.448	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-2.568	4.5
17	MP2C	Z	-4.448	4.5
18	MP2C	Mx	-.002	4.5
19	MP2A	X	-3.438	.5
20	MP2A	Z	-5.954	.5
21	MP2A	Mx	.005	.5
22	MP2A	X	-3.438	4.5
23	MP2A	Z	-5.954	4.5
24	MP2A	Mx	.005	4.5
25	MP2B	X	-3.119	.5
26	MP2B	Z	-5.403	.5
27	MP2B	Mx	-.000367	.5
28	MP2B	X	-3.119	4.5
29	MP2B	Z	-5.403	4.5
30	MP2B	Mx	-.000367	4.5
31	MP2C	X	-2.568	.5
32	MP2C	Z	-4.448	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	-2.568	4.5
35	MP2C	Z	-4.448	4.5
36	MP2C	Mx	-.003	4.5
37	MP1A	X	-1.852	1.5
38	MP1A	Z	-3.208	1.5
39	MP1A	Mx	.000926	1.5
40	MP1A	X	-1.852	3.5
41	MP1A	Z	-3.208	3.5
42	MP1A	Mx	.000926	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	-1.52	1.5
44	MP1B	Z	-2.633	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	-1.52	3.5
47	MP1B	Z	-2.633	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	-.944	1.5
50	MP1C	Z	-1.636	1.5
51	MP1C	Mx	-.000912	1.5
52	MP1C	X	-.944	3.5
53	MP1C	Z	-1.636	3.5
54	MP1C	Mx	-.000912	3.5
55	MP2A	X	-1.594	2
56	MP2A	Z	-2.761	2
57	MP2A	Mx	-.000797	2
58	MP2B	X	-1.45	2
59	MP2B	Z	-2.512	2
60	MP2B	Mx	-.001	2
61	MP2C	X	-1.201	2
62	MP2C	Z	-2.08	2
63	MP2C	Mx	.001	2
64	MP3A	X	-1.539	2
65	MP3A	Z	-2.666	2
66	MP3A	Mx	-.00077	2
67	MP3B	X	-1.34	2
68	MP3B	Z	-2.321	2
69	MP3B	Mx	-.000948	2
70	MP3C	X	-.995	2
71	MP3C	Z	-1.723	2
72	MP3C	Mx	.000961	2
73	M101	X	-3.444	1.5
74	M101	Z	-5.964	1.5
75	M101	Mx	0	1.5
76	MP4A	X	-3.709	1
77	MP4A	Z	-6.423	1
78	MP4A	Mx	.002	1
79	MP4A	X	-3.709	4
80	MP4A	Z	-6.423	4
81	MP4A	Mx	.002	4
82	MP4C	X	-1.205	1
83	MP4C	Z	-2.088	1
84	MP4C	Mx	-.001	1
85	MP4C	X	-1.205	4
86	MP4C	Z	-2.088	4
87	MP4C	Mx	-.001	4
88	MP4B	X	-1.664	1
89	MP4B	Z	-2.882	1
90	MP4B	Mx	.001	1
91	MP4B	X	-1.664	4
92	MP4B	Z	-2.882	4
93	MP4B	Mx	.001	4
94	M103	X	-2.269	1.5
95	M103	Z	-3.931	1.5
96	M103	Mx	0	1.5

Member Point Loads (BLC 77 : Lm1)

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-500	%96

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-500	%67

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	Y	-14.8	-14.8	0	%100
2	M10	Y	-11.938	-11.938	0	%100
3	M43	Y	-11.938	-11.938	0	%100
4	M46	Y	-15.56	-15.56	0	%100
5	M51B	Y	-9.076	-9.076	0	%100
6	M52B	Y	-9.076	-9.076	0	%100
7	M76	Y	-15.518	-15.518	0	%100
8	M77	Y	-15.518	-15.518	0	%100
9	M80	Y	-15.56	-15.56	0	%100
10	M84	Y	-15.518	-15.518	0	%100
11	M85	Y	-15.518	-15.518	0	%100
12	M91	Y	-15.56	-15.56	0	%100
13	M25	Y	-14.8	-14.8	0	%100
14	M26	Y	-11.938	-11.938	0	%100
15	M27	Y	-11.938	-11.938	0	%100
16	M28	Y	-15.56	-15.56	0	%100
17	M31	Y	-9.076	-9.076	0	%100
18	M32	Y	-9.076	-9.076	0	%100
19	M36	Y	-15.518	-15.518	0	%100
20	M37	Y	-15.518	-15.518	0	%100
21	M39	Y	-15.56	-15.56	0	%100
22	M41	Y	-15.518	-15.518	0	%100
23	M42	Y	-15.518	-15.518	0	%100
24	M44	Y	-15.56	-15.56	0	%100
25	M49	Y	-14.8	-14.8	0	%100
26	M50A	Y	-11.938	-11.938	0	%100
27	M51C	Y	-11.938	-11.938	0	%100
28	M52A	Y	-15.56	-15.56	0	%100
29	M55	Y	-9.076	-9.076	0	%100
30	M56	Y	-9.076	-9.076	0	%100
31	M60	Y	-15.518	-15.518	0	%100
32	M61	Y	-15.518	-15.518	0	%100
33	M63	Y	-15.56	-15.56	0	%100
34	M65	Y	-15.518	-15.518	0	%100
35	M66	Y	-15.518	-15.518	0	%100
36	M68	Y	-15.56	-15.56	0	%100
37	M73	Y	-10.435	-10.435	0	%100
38	M74	Y	-10.435	-10.435	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,%]
39	M75	Y	-10.435	-10.435	0	%100
40	MP1A	Y	-8.159	-8.159	0	%100
41	MP2A	Y	-9.17	-9.17	0	%100
42	MP3A	Y	-8.159	-8.159	0	%100
43	MP4A	Y	-8.159	-8.159	0	%100
44	MP1C	Y	-8.159	-8.159	0	%100
45	MP2C	Y	-9.17	-9.17	0	%100
46	MP3C	Y	-8.159	-8.159	0	%100
47	MP4C	Y	-8.159	-8.159	0	%100
48	MP1B	Y	-8.159	-8.159	0	%100
49	MP2B	Y	-9.17	-9.17	0	%100
50	MP3B	Y	-8.159	-8.159	0	%100
51	MP4B	Y	-8.159	-8.159	0	%100
52	M101	Y	-8.159	-8.159	0	%100
53	M103	Y	-8.159	-8.159	0	%100
54	M104	Y	-9.17	-9.17	0	%100
55	M125	Y	-11.938	-11.938	0	%100
56	M126	Y	-11.938	-11.938	0	%100
57	M127	Y	-11.938	-11.938	0	%100
58	M128	Y	-17.012	-17.012	0	%100
59	M129	Y	-17.012	-17.012	0	%100
60	M130	Y	-17.012	-17.012	0	%100
61	M129A	Y	-9.17	-9.17	0	%100
62	M130A	Y	-9.17	-9.17	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-10.487	-10.487	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-10.487	-10.487	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-16.968	-16.968	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-2.355	-2.355	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-2.355	-2.355	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-4.32	-4.32	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-4.551	-4.551	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-4.32	-4.32	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-4.551	-4.551	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-7.54	-7.54	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	-2.622	-2.622	0	%100
29	M27	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M27	Z	-2.622	-2.622	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	-4.242	-4.242	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	-2.355	-2.355	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	-9.422	-9.422	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	-12.726	-12.726	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	-4.32	-4.32	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-4.551	-4.551	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	-12.726	-12.726	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-17.282	-17.282	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-18.203	-18.203	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	-7.54	-7.54	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	-2.622	-2.622	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	-2.622	-2.622	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	-4.242	-4.242	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	-9.422	-9.422	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	-2.355	-2.355	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	-12.726	-12.726	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	-17.282	-17.282	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-18.203	-18.203	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	-12.726	-12.726	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	-4.32	-4.32	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-4.551	-4.551	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-9.898	-9.898	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	-2.474	-2.474	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	-2.474	-2.474	0	%100
79	MP1A	X	0	0	0	%100
80	MP1A	Z	-6.716	-6.716	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-8.13	-8.13	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-6.716	-6.716	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-6.716	-6.716	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,%]
87	MP1C	X	0	0	0	%100
88	MP1C	Z	-6.716	-6.716	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-8.13	-8.13	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-6.716	-6.716	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	-6.716	-6.716	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-6.716	-6.716	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-8.13	-8.13	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-6.716	-6.716	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-6.716	-6.716	0	%100
103	M101	X	0	0	0	%100
104	M101	Z	-5.492	-5.492	0	%100
105	M103	X	0	0	0	%100
106	M103	Z	-6.121	-6.121	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	-8.13	-8.13	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	-2.313	-2.313	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	-2.313	-2.313	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	-9.252	-9.252	0	%100
115	M128	X	0	0	0	%100
116	M128	Z	-11.279	-11.279	0	%100
117	M129	X	0	0	0	%100
118	M129	Z	-12.005	-12.005	0	%100
119	M130	X	0	0	0	%100
120	M130	Z	-12.005	-12.005	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	-2.033	-2.033	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	-2.033	-2.033	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	1.257	1.257	0	%100
2	M4	Z	-2.177	-2.177	0	%100
3	M10	X	3.933	3.933	0	%100
4	M10	Z	-6.811	-6.811	0	%100
5	M43	X	3.933	3.933	0	%100
6	M43	Z	-6.811	-6.811	0	%100
7	M46	X	6.363	6.363	0	%100
8	M46	Z	-11.021	-11.021	0	%100
9	M51B	X	3.533	3.533	0	%100
10	M51B	Z	-6.12	-6.12	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	2.121	2.121	0	%100
14	M76	Z	-3.674	-3.674	0	%100
15	M77	X	6.481	6.481	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	M77	Z	-11.225	-11.225	0	%100
17	M80	X	6.826	6.826	0	%100
18	M80	Z	-11.823	-11.823	0	%100
19	M84	X	2.121	2.121	0	%100
20	M84	Z	-3.674	-3.674	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	1.257	1.257	0	%100
26	M25	Z	-2.177	-2.177	0	%100
27	M26	X	3.933	3.933	0	%100
28	M26	Z	-6.811	-6.811	0	%100
29	M27	X	3.933	3.933	0	%100
30	M27	Z	-6.811	-6.811	0	%100
31	M28	X	6.363	6.363	0	%100
32	M28	Z	-11.021	-11.021	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	3.533	3.533	0	%100
36	M32	Z	-6.12	-6.12	0	%100
37	M36	X	2.121	2.121	0	%100
38	M36	Z	-3.674	-3.674	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	2.121	2.121	0	%100
44	M41	Z	-3.674	-3.674	0	%100
45	M42	X	6.481	6.481	0	%100
46	M42	Z	-11.225	-11.225	0	%100
47	M44	X	6.826	6.826	0	%100
48	M44	Z	-11.823	-11.823	0	%100
49	M49	X	5.027	5.027	0	%100
50	M49	Z	-8.706	-8.706	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	3.533	3.533	0	%100
58	M55	Z	-6.12	-6.12	0	%100
59	M56	X	3.533	3.533	0	%100
60	M56	Z	-6.12	-6.12	0	%100
61	M60	X	8.484	8.484	0	%100
62	M60	Z	-14.694	-14.694	0	%100
63	M61	X	6.481	6.481	0	%100
64	M61	Z	-11.225	-11.225	0	%100
65	M63	X	6.826	6.826	0	%100
66	M63	Z	-11.823	-11.823	0	%100
67	M65	X	8.484	8.484	0	%100
68	M65	Z	-14.694	-14.694	0	%100
69	M66	X	6.481	6.481	0	%100
70	M66	Z	-11.225	-11.225	0	%100
71	M68	X	6.826	6.826	0	%100
72	M68	Z	-11.823	-11.823	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	M73	X	3.712	3.712	0	%100
74	M73	Z	-6.429	-6.429	0	%100
75	M74	X	3.712	3.712	0	%100
76	M74	Z	-6.429	-6.429	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	3.358	3.358	0	%100
80	MP1A	Z	-5.817	-5.817	0	%100
81	MP2A	X	4.065	4.065	0	%100
82	MP2A	Z	-7.041	-7.041	0	%100
83	MP3A	X	3.358	3.358	0	%100
84	MP3A	Z	-5.817	-5.817	0	%100
85	MP4A	X	3.358	3.358	0	%100
86	MP4A	Z	-5.817	-5.817	0	%100
87	MP1C	X	3.358	3.358	0	%100
88	MP1C	Z	-5.817	-5.817	0	%100
89	MP2C	X	4.065	4.065	0	%100
90	MP2C	Z	-7.041	-7.041	0	%100
91	MP3C	X	3.358	3.358	0	%100
92	MP3C	Z	-5.817	-5.817	0	%100
93	MP4C	X	3.358	3.358	0	%100
94	MP4C	Z	-5.817	-5.817	0	%100
95	MP1B	X	3.358	3.358	0	%100
96	MP1B	Z	-5.817	-5.817	0	%100
97	MP2B	X	4.065	4.065	0	%100
98	MP2B	Z	-7.041	-7.041	0	%100
99	MP3B	X	3.358	3.358	0	%100
100	MP3B	Z	-5.817	-5.817	0	%100
101	MP4B	X	3.358	3.358	0	%100
102	MP4B	Z	-5.817	-5.817	0	%100
103	M101	X	2.746	2.746	0	%100
104	M101	Z	-4.756	-4.756	0	%100
105	M103	X	3.06	3.06	0	%100
106	M103	Z	-5.301	-5.301	0	%100
107	M104	X	3.049	3.049	0	%100
108	M104	Z	-5.281	-5.281	0	%100
109	M125	X	3.469	3.469	0	%100
110	M125	Z	-6.009	-6.009	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	3.469	3.469	0	%100
114	M127	Z	-6.009	-6.009	0	%100
115	M128	X	5.76	5.76	0	%100
116	M128	Z	-9.977	-9.977	0	%100
117	M129	X	5.76	5.76	0	%100
118	M129	Z	-9.977	-9.977	0	%100
119	M130	X	6.124	6.124	0	%100
120	M130	Z	-10.607	-10.607	0	%100
121	M129A	X	3.049	3.049	0	%100
122	M129A	Z	-5.281	-5.281	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	6.53	6.53	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,%]
2	M4	Z	-3.77	-3.77	0	%100
3	M10	X	2.27	2.27	0	%100
4	M10	Z	-1.311	-1.311	0	%100
5	M43	X	2.27	2.27	0	%100
6	M43	Z	-1.311	-1.311	0	%100
7	M46	X	3.674	3.674	0	%100
8	M46	Z	-2.121	-2.121	0	%100
9	M51B	X	8.16	8.16	0	%100
10	M51B	Z	-4.711	-4.711	0	%100
11	M52B	X	2.04	2.04	0	%100
12	M52B	Z	-1.178	-1.178	0	%100
13	M76	X	11.021	11.021	0	%100
14	M76	Z	-6.363	-6.363	0	%100
15	M77	X	14.967	14.967	0	%100
16	M77	Z	-8.641	-8.641	0	%100
17	M80	X	15.764	15.764	0	%100
18	M80	Z	-9.101	-9.101	0	%100
19	M84	X	11.021	11.021	0	%100
20	M84	Z	-6.363	-6.363	0	%100
21	M85	X	3.742	3.742	0	%100
22	M85	Z	-2.16	-2.16	0	%100
23	M91	X	3.941	3.941	0	%100
24	M91	Z	-2.275	-2.275	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	9.082	9.082	0	%100
28	M26	Z	-5.243	-5.243	0	%100
29	M27	X	9.082	9.082	0	%100
30	M27	Z	-5.243	-5.243	0	%100
31	M28	X	14.694	14.694	0	%100
32	M28	Z	-8.484	-8.484	0	%100
33	M31	X	2.04	2.04	0	%100
34	M31	Z	-1.178	-1.178	0	%100
35	M32	X	2.04	2.04	0	%100
36	M32	Z	-1.178	-1.178	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	3.742	3.742	0	%100
40	M37	Z	-2.16	-2.16	0	%100
41	M39	X	3.941	3.941	0	%100
42	M39	Z	-2.275	-2.275	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	3.742	3.742	0	%100
46	M42	Z	-2.16	-2.16	0	%100
47	M44	X	3.941	3.941	0	%100
48	M44	Z	-2.275	-2.275	0	%100
49	M49	X	6.53	6.53	0	%100
50	M49	Z	-3.77	-3.77	0	%100
51	M50A	X	2.27	2.27	0	%100
52	M50A	Z	-1.311	-1.311	0	%100
53	M51C	X	2.27	2.27	0	%100
54	M51C	Z	-1.311	-1.311	0	%100
55	M52A	X	3.674	3.674	0	%100
56	M52A	Z	-2.121	-2.121	0	%100
57	M55	X	2.04	2.04	0	%100
58	M55	Z	-1.178	-1.178	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,%]
59	M56	X	8.16	8.16	0	%100
60	M56	Z	-4.711	-4.711	0	%100
61	M60	X	11.021	11.021	0	%100
62	M60	Z	-6.363	-6.363	0	%100
63	M61	X	3.742	3.742	0	%100
64	M61	Z	-2.16	-2.16	0	%100
65	M63	X	3.941	3.941	0	%100
66	M63	Z	-2.275	-2.275	0	%100
67	M65	X	11.021	11.021	0	%100
68	M65	Z	-6.363	-6.363	0	%100
69	M66	X	14.967	14.967	0	%100
70	M66	Z	-8.641	-8.641	0	%100
71	M68	X	15.764	15.764	0	%100
72	M68	Z	-9.101	-9.101	0	%100
73	M73	X	2.143	2.143	0	%100
74	M73	Z	-1.237	-1.237	0	%100
75	M74	X	8.572	8.572	0	%100
76	M74	Z	-4.949	-4.949	0	%100
77	M75	X	2.143	2.143	0	%100
78	M75	Z	-1.237	-1.237	0	%100
79	MP1A	X	5.817	5.817	0	%100
80	MP1A	Z	-3.358	-3.358	0	%100
81	MP2A	X	7.041	7.041	0	%100
82	MP2A	Z	-4.065	-4.065	0	%100
83	MP3A	X	5.817	5.817	0	%100
84	MP3A	Z	-3.358	-3.358	0	%100
85	MP4A	X	5.817	5.817	0	%100
86	MP4A	Z	-3.358	-3.358	0	%100
87	MP1C	X	5.817	5.817	0	%100
88	MP1C	Z	-3.358	-3.358	0	%100
89	MP2C	X	7.041	7.041	0	%100
90	MP2C	Z	-4.065	-4.065	0	%100
91	MP3C	X	5.817	5.817	0	%100
92	MP3C	Z	-3.358	-3.358	0	%100
93	MP4C	X	5.817	5.817	0	%100
94	MP4C	Z	-3.358	-3.358	0	%100
95	MP1B	X	5.817	5.817	0	%100
96	MP1B	Z	-3.358	-3.358	0	%100
97	MP2B	X	7.041	7.041	0	%100
98	MP2B	Z	-4.065	-4.065	0	%100
99	MP3B	X	5.817	5.817	0	%100
100	MP3B	Z	-3.358	-3.358	0	%100
101	MP4B	X	5.817	5.817	0	%100
102	MP4B	Z	-3.358	-3.358	0	%100
103	M101	X	4.756	4.756	0	%100
104	M101	Z	-2.746	-2.746	0	%100
105	M103	X	5.301	5.301	0	%100
106	M103	Z	-3.06	-3.06	0	%100
107	M104	X	1.76	1.76	0	%100
108	M104	Z	-1.016	-1.016	0	%100
109	M125	X	8.012	8.012	0	%100
110	M125	Z	-4.626	-4.626	0	%100
111	M126	X	2.003	2.003	0	%100
112	M126	Z	-1.156	-1.156	0	%100
113	M127	X	2.003	2.003	0	%100
114	M127	Z	-1.156	-1.156	0	%100
115	M128	X	10.397	10.397	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,%]
116	M128	Z	-6.003	-6.003	0	%100
117	M129	X	9.768	9.768	0	%100
118	M129	Z	-5.639	-5.639	0	%100
119	M130	X	10.397	10.397	0	%100
120	M130	Z	-6.003	-6.003	0	%100
121	M129A	X	7.041	7.041	0	%100
122	M129A	Z	-4.065	-4.065	0	%100
123	M130A	X	1.76	1.76	0	%100
124	M130A	Z	-1.016	-1.016	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	M4	X	10.053	10.053	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	7.066	7.066	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	7.066	7.066	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	16.968	16.968	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	12.961	12.961	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	13.652	13.652	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	16.968	16.968	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	12.961	12.961	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	13.652	13.652	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	2.513	2.513	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	7.865	7.865	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	7.865	7.865	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	12.726	12.726	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	7.066	7.066	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M36	X	4.242	4.242	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	12.961	12.961	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	13.652	13.652	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	4.242	4.242	0	%100
44	M41	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,%]
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M49	X	2.513	2.513	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	7.865	7.865	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	7.865	7.865	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	12.726	12.726	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	0	0	0	%100
59	M56	X	7.066	7.066	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	4.242	4.242	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M65	X	4.242	4.242	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	12.961	12.961	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	13.652	13.652	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	7.423	7.423	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	7.423	7.423	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	6.716	6.716	0	%100
80	MP1A	Z	0	0	0	%100
81	MP2A	X	8.13	8.13	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	6.716	6.716	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	6.716	6.716	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	6.716	6.716	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	8.13	8.13	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	6.716	6.716	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	6.716	6.716	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	6.716	6.716	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	8.13	8.13	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	6.716	6.716	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	6.716	6.716	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,%]
102	MP4B	Z	0	0	0	%100
103	M101	X	5.492	5.492	0	%100
104	M101	Z	0	0	0	%100
105	M103	X	6.121	6.121	0	%100
106	M103	Z	0	0	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	0	0	0	%100
109	M125	X	6.939	6.939	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	6.939	6.939	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	0	0	0	%100
115	M128	X	12.247	12.247	0	%100
116	M128	Z	0	0	0	%100
117	M129	X	11.521	11.521	0	%100
118	M129	Z	0	0	0	%100
119	M130	X	11.521	11.521	0	%100
120	M130	Z	0	0	0	%100
121	M129A	X	6.098	6.098	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	6.098	6.098	0	%100
124	M130A	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	M4	X	6.53	6.53	0	%100
2	M4	Z	3.77	3.77	0	%100
3	M10	X	2.27	2.27	0	%100
4	M10	Z	1.311	1.311	0	%100
5	M43	X	2.27	2.27	0	%100
6	M43	Z	1.311	1.311	0	%100
7	M46	X	3.674	3.674	0	%100
8	M46	Z	2.121	2.121	0	%100
9	M51B	X	2.04	2.04	0	%100
10	M51B	Z	1.178	1.178	0	%100
11	M52B	X	8.16	8.16	0	%100
12	M52B	Z	4.711	4.711	0	%100
13	M76	X	11.021	11.021	0	%100
14	M76	Z	6.363	6.363	0	%100
15	M77	X	3.742	3.742	0	%100
16	M77	Z	2.16	2.16	0	%100
17	M80	X	3.941	3.941	0	%100
18	M80	Z	2.275	2.275	0	%100
19	M84	X	11.021	11.021	0	%100
20	M84	Z	6.363	6.363	0	%100
21	M85	X	14.967	14.967	0	%100
22	M85	Z	8.641	8.641	0	%100
23	M91	X	15.764	15.764	0	%100
24	M91	Z	9.101	9.101	0	%100
25	M25	X	6.53	6.53	0	%100
26	M25	Z	3.77	3.77	0	%100
27	M26	X	2.27	2.27	0	%100
28	M26	Z	1.311	1.311	0	%100
29	M27	X	2.27	2.27	0	%100
30	M27	Z	1.311	1.311	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,%]
31	M28	X	3.674	3.674	0	%100
32	M28	Z	2.121	2.121	0	%100
33	M31	X	8.16	8.16	0	%100
34	M31	Z	4.711	4.711	0	%100
35	M32	X	2.04	2.04	0	%100
36	M32	Z	1.178	1.178	0	%100
37	M36	X	11.021	11.021	0	%100
38	M36	Z	6.363	6.363	0	%100
39	M37	X	14.967	14.967	0	%100
40	M37	Z	8.641	8.641	0	%100
41	M39	X	15.764	15.764	0	%100
42	M39	Z	9.101	9.101	0	%100
43	M41	X	11.021	11.021	0	%100
44	M41	Z	6.363	6.363	0	%100
45	M42	X	3.742	3.742	0	%100
46	M42	Z	2.16	2.16	0	%100
47	M44	X	3.941	3.941	0	%100
48	M44	Z	2.275	2.275	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	9.082	9.082	0	%100
52	M50A	Z	5.243	5.243	0	%100
53	M51C	X	9.082	9.082	0	%100
54	M51C	Z	5.243	5.243	0	%100
55	M52A	X	14.694	14.694	0	%100
56	M52A	Z	8.484	8.484	0	%100
57	M55	X	2.04	2.04	0	%100
58	M55	Z	1.178	1.178	0	%100
59	M56	X	2.04	2.04	0	%100
60	M56	Z	1.178	1.178	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	3.742	3.742	0	%100
64	M61	Z	2.16	2.16	0	%100
65	M63	X	3.941	3.941	0	%100
66	M63	Z	2.275	2.275	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	3.742	3.742	0	%100
70	M66	Z	2.16	2.16	0	%100
71	M68	X	3.941	3.941	0	%100
72	M68	Z	2.275	2.275	0	%100
73	M73	X	2.143	2.143	0	%100
74	M73	Z	1.237	1.237	0	%100
75	M74	X	2.143	2.143	0	%100
76	M74	Z	1.237	1.237	0	%100
77	M75	X	8.572	8.572	0	%100
78	M75	Z	4.949	4.949	0	%100
79	MP1A	X	5.817	5.817	0	%100
80	MP1A	Z	3.358	3.358	0	%100
81	MP2A	X	7.041	7.041	0	%100
82	MP2A	Z	4.065	4.065	0	%100
83	MP3A	X	5.817	5.817	0	%100
84	MP3A	Z	3.358	3.358	0	%100
85	MP4A	X	5.817	5.817	0	%100
86	MP4A	Z	3.358	3.358	0	%100
87	MP1C	X	5.817	5.817	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,%]
88	MP1C	Z	3.358	3.358	0	%100
89	MP2C	X	7.041	7.041	0	%100
90	MP2C	Z	4.065	4.065	0	%100
91	MP3C	X	5.817	5.817	0	%100
92	MP3C	Z	3.358	3.358	0	%100
93	MP4C	X	5.817	5.817	0	%100
94	MP4C	Z	3.358	3.358	0	%100
95	MP1B	X	5.817	5.817	0	%100
96	MP1B	Z	3.358	3.358	0	%100
97	MP2B	X	7.041	7.041	0	%100
98	MP2B	Z	4.065	4.065	0	%100
99	MP3B	X	5.817	5.817	0	%100
100	MP3B	Z	3.358	3.358	0	%100
101	MP4B	X	5.817	5.817	0	%100
102	MP4B	Z	3.358	3.358	0	%100
103	M101	X	4.756	4.756	0	%100
104	M101	Z	2.746	2.746	0	%100
105	M103	X	5.301	5.301	0	%100
106	M103	Z	3.06	3.06	0	%100
107	M104	X	1.76	1.76	0	%100
108	M104	Z	1.016	1.016	0	%100
109	M125	X	2.003	2.003	0	%100
110	M125	Z	1.156	1.156	0	%100
111	M126	X	8.012	8.012	0	%100
112	M126	Z	4.626	4.626	0	%100
113	M127	X	2.003	2.003	0	%100
114	M127	Z	1.156	1.156	0	%100
115	M128	X	10.397	10.397	0	%100
116	M128	Z	6.003	6.003	0	%100
117	M129	X	10.397	10.397	0	%100
118	M129	Z	6.003	6.003	0	%100
119	M130	X	9.768	9.768	0	%100
120	M130	Z	5.639	5.639	0	%100
121	M129A	X	1.76	1.76	0	%100
122	M129A	Z	1.016	1.016	0	%100
123	M130A	X	7.041	7.041	0	%100
124	M130A	Z	4.065	4.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	1.257	1.257	0	%100
2	M4	Z	2.177	2.177	0	%100
3	M10	X	3.933	3.933	0	%100
4	M10	Z	6.811	6.811	0	%100
5	M43	X	3.933	3.933	0	%100
6	M43	Z	6.811	6.811	0	%100
7	M46	X	6.363	6.363	0	%100
8	M46	Z	11.021	11.021	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	3.533	3.533	0	%100
12	M52B	Z	6.12	6.12	0	%100
13	M76	X	2.121	2.121	0	%100
14	M76	Z	3.674	3.674	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	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,%]
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	2.121	2.121	0	%100
20	M84	Z	3.674	3.674	0	%100
21	M85	X	6.481	6.481	0	%100
22	M85	Z	11.225	11.225	0	%100
23	M91	X	6.826	6.826	0	%100
24	M91	Z	11.823	11.823	0	%100
25	M25	X	5.027	5.027	0	%100
26	M25	Z	8.706	8.706	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	3.533	3.533	0	%100
34	M31	Z	6.12	6.12	0	%100
35	M32	X	3.533	3.533	0	%100
36	M32	Z	6.12	6.12	0	%100
37	M36	X	8.484	8.484	0	%100
38	M36	Z	14.694	14.694	0	%100
39	M37	X	6.481	6.481	0	%100
40	M37	Z	11.225	11.225	0	%100
41	M39	X	6.826	6.826	0	%100
42	M39	Z	11.823	11.823	0	%100
43	M41	X	8.484	8.484	0	%100
44	M41	Z	14.694	14.694	0	%100
45	M42	X	6.481	6.481	0	%100
46	M42	Z	11.225	11.225	0	%100
47	M44	X	6.826	6.826	0	%100
48	M44	Z	11.823	11.823	0	%100
49	M49	X	1.257	1.257	0	%100
50	M49	Z	2.177	2.177	0	%100
51	M50A	X	3.933	3.933	0	%100
52	M50A	Z	6.811	6.811	0	%100
53	M51C	X	3.933	3.933	0	%100
54	M51C	Z	6.811	6.811	0	%100
55	M52A	X	6.363	6.363	0	%100
56	M52A	Z	11.021	11.021	0	%100
57	M55	X	3.533	3.533	0	%100
58	M55	Z	6.12	6.12	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	2.121	2.121	0	%100
62	M60	Z	3.674	3.674	0	%100
63	M61	X	6.481	6.481	0	%100
64	M61	Z	11.225	11.225	0	%100
65	M63	X	6.826	6.826	0	%100
66	M63	Z	11.823	11.823	0	%100
67	M65	X	2.121	2.121	0	%100
68	M65	Z	3.674	3.674	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	3.712	3.712	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,%]
74	M73	Z	6.429	6.429	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	3.712	3.712	0	%100
78	M75	Z	6.429	6.429	0	%100
79	MP1A	X	3.358	3.358	0	%100
80	MP1A	Z	5.817	5.817	0	%100
81	MP2A	X	4.065	4.065	0	%100
82	MP2A	Z	7.041	7.041	0	%100
83	MP3A	X	3.358	3.358	0	%100
84	MP3A	Z	5.817	5.817	0	%100
85	MP4A	X	3.358	3.358	0	%100
86	MP4A	Z	5.817	5.817	0	%100
87	MP1C	X	3.358	3.358	0	%100
88	MP1C	Z	5.817	5.817	0	%100
89	MP2C	X	4.065	4.065	0	%100
90	MP2C	Z	7.041	7.041	0	%100
91	MP3C	X	3.358	3.358	0	%100
92	MP3C	Z	5.817	5.817	0	%100
93	MP4C	X	3.358	3.358	0	%100
94	MP4C	Z	5.817	5.817	0	%100
95	MP1B	X	3.358	3.358	0	%100
96	MP1B	Z	5.817	5.817	0	%100
97	MP2B	X	4.065	4.065	0	%100
98	MP2B	Z	7.041	7.041	0	%100
99	MP3B	X	3.358	3.358	0	%100
100	MP3B	Z	5.817	5.817	0	%100
101	MP4B	X	3.358	3.358	0	%100
102	MP4B	Z	5.817	5.817	0	%100
103	M101	X	2.746	2.746	0	%100
104	M101	Z	4.756	4.756	0	%100
105	M103	X	3.06	3.06	0	%100
106	M103	Z	5.301	5.301	0	%100
107	M104	X	3.049	3.049	0	%100
108	M104	Z	5.281	5.281	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	3.469	3.469	0	%100
112	M126	Z	6.009	6.009	0	%100
113	M127	X	3.469	3.469	0	%100
114	M127	Z	6.009	6.009	0	%100
115	M128	X	5.76	5.76	0	%100
116	M128	Z	9.977	9.977	0	%100
117	M129	X	6.124	6.124	0	%100
118	M129	Z	10.607	10.607	0	%100
119	M130	X	5.76	5.76	0	%100
120	M130	Z	9.977	9.977	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	3.049	3.049	0	%100
124	M130A	Z	5.281	5.281	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100

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,%]
3	M10	X	0	0	0	%100
4	M10	Z	10.487	10.487	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	10.487	10.487	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	16.968	16.968	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	2.355	2.355	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	2.355	2.355	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	4.32	4.32	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	4.551	4.551	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	4.32	4.32	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	4.551	4.551	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	7.54	7.54	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	2.622	2.622	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	2.622	2.622	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	4.242	4.242	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	2.355	2.355	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	9.422	9.422	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	12.726	12.726	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	4.32	4.32	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	4.551	4.551	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	12.726	12.726	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	17.282	17.282	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	18.203	18.203	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	7.54	7.54	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	2.622	2.622	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	2.622	2.622	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	4.242	4.242	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	9.422	9.422	0	%100
59	M56	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,%]
60	M56	Z	2.355	2.355	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	12.726	12.726	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	17.282	17.282	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	18.203	18.203	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	12.726	12.726	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	4.32	4.32	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	4.551	4.551	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	9.898	9.898	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	2.474	2.474	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	2.474	2.474	0	%100
79	MP1A	X	0	0	0	%100
80	MP1A	Z	6.716	6.716	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	8.13	8.13	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	6.716	6.716	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	6.716	6.716	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	6.716	6.716	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	8.13	8.13	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	6.716	6.716	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	6.716	6.716	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	6.716	6.716	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	8.13	8.13	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	6.716	6.716	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	6.716	6.716	0	%100
103	M101	X	0	0	0	%100
104	M101	Z	5.492	5.492	0	%100
105	M103	X	0	0	0	%100
106	M103	Z	6.121	6.121	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	8.13	8.13	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	2.313	2.313	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	2.313	2.313	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	9.252	9.252	0	%100
115	M128	X	0	0	0	%100
116	M128	Z	11.279	11.279	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,%]
117	M129	X	0	0	0	%100
118	M129	Z	12.005	12.005	0	%100
119	M130	X	0	0	0	%100
120	M130	Z	12.005	12.005	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	2.033	2.033	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	2.033	2.033	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-1.257	-1.257	0	%100
2	M4	Z	2.177	2.177	0	%100
3	M10	X	-3.933	-3.933	0	%100
4	M10	Z	6.811	6.811	0	%100
5	M43	X	-3.933	-3.933	0	%100
6	M43	Z	6.811	6.811	0	%100
7	M46	X	-6.363	-6.363	0	%100
8	M46	Z	11.021	11.021	0	%100
9	M51B	X	-3.533	-3.533	0	%100
10	M51B	Z	6.12	6.12	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-2.121	-2.121	0	%100
14	M76	Z	3.674	3.674	0	%100
15	M77	X	-6.481	-6.481	0	%100
16	M77	Z	11.225	11.225	0	%100
17	M80	X	-6.826	-6.826	0	%100
18	M80	Z	11.823	11.823	0	%100
19	M84	X	-2.121	-2.121	0	%100
20	M84	Z	3.674	3.674	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	-1.257	-1.257	0	%100
26	M25	Z	2.177	2.177	0	%100
27	M26	X	-3.933	-3.933	0	%100
28	M26	Z	6.811	6.811	0	%100
29	M27	X	-3.933	-3.933	0	%100
30	M27	Z	6.811	6.811	0	%100
31	M28	X	-6.363	-6.363	0	%100
32	M28	Z	11.021	11.021	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	-3.533	-3.533	0	%100
36	M32	Z	6.12	6.12	0	%100
37	M36	X	-2.121	-2.121	0	%100
38	M36	Z	3.674	3.674	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	-2.121	-2.121	0	%100
44	M41	Z	3.674	3.674	0	%100
45	M42	X	-6.481	-6.481	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,%]
46	M42	Z	11.225	11.225	0	%100
47	M44	X	-6.826	-6.826	0	%100
48	M44	Z	11.823	11.823	0	%100
49	M49	X	-5.027	-5.027	0	%100
50	M49	Z	8.706	8.706	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	-3.533	-3.533	0	%100
58	M55	Z	6.12	6.12	0	%100
59	M56	X	-3.533	-3.533	0	%100
60	M56	Z	6.12	6.12	0	%100
61	M60	X	-8.484	-8.484	0	%100
62	M60	Z	14.694	14.694	0	%100
63	M61	X	-6.481	-6.481	0	%100
64	M61	Z	11.225	11.225	0	%100
65	M63	X	-6.826	-6.826	0	%100
66	M63	Z	11.823	11.823	0	%100
67	M65	X	-8.484	-8.484	0	%100
68	M65	Z	14.694	14.694	0	%100
69	M66	X	-6.481	-6.481	0	%100
70	M66	Z	11.225	11.225	0	%100
71	M68	X	-6.826	-6.826	0	%100
72	M68	Z	11.823	11.823	0	%100
73	M73	X	-3.712	-3.712	0	%100
74	M73	Z	6.429	6.429	0	%100
75	M74	X	-3.712	-3.712	0	%100
76	M74	Z	6.429	6.429	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	-3.358	-3.358	0	%100
80	MP1A	Z	5.817	5.817	0	%100
81	MP2A	X	-4.065	-4.065	0	%100
82	MP2A	Z	7.041	7.041	0	%100
83	MP3A	X	-3.358	-3.358	0	%100
84	MP3A	Z	5.817	5.817	0	%100
85	MP4A	X	-3.358	-3.358	0	%100
86	MP4A	Z	5.817	5.817	0	%100
87	MP1C	X	-3.358	-3.358	0	%100
88	MP1C	Z	5.817	5.817	0	%100
89	MP2C	X	-4.065	-4.065	0	%100
90	MP2C	Z	7.041	7.041	0	%100
91	MP3C	X	-3.358	-3.358	0	%100
92	MP3C	Z	5.817	5.817	0	%100
93	MP4C	X	-3.358	-3.358	0	%100
94	MP4C	Z	5.817	5.817	0	%100
95	MP1B	X	-3.358	-3.358	0	%100
96	MP1B	Z	5.817	5.817	0	%100
97	MP2B	X	-4.065	-4.065	0	%100
98	MP2B	Z	7.041	7.041	0	%100
99	MP3B	X	-3.358	-3.358	0	%100
100	MP3B	Z	5.817	5.817	0	%100
101	MP4B	X	-3.358	-3.358	0	%100
102	MP4B	Z	5.817	5.817	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,%]
103	M101	X	-2.746	-2.746	0	%100
104	M101	Z	4.756	4.756	0	%100
105	M103	X	-3.06	-3.06	0	%100
106	M103	Z	5.301	5.301	0	%100
107	M104	X	-3.049	-3.049	0	%100
108	M104	Z	5.281	5.281	0	%100
109	M125	X	-3.469	-3.469	0	%100
110	M125	Z	6.009	6.009	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	-3.469	-3.469	0	%100
114	M127	Z	6.009	6.009	0	%100
115	M128	X	-5.76	-5.76	0	%100
116	M128	Z	9.977	9.977	0	%100
117	M129	X	-5.76	-5.76	0	%100
118	M129	Z	9.977	9.977	0	%100
119	M130	X	-6.124	-6.124	0	%100
120	M130	Z	10.607	10.607	0	%100
121	M129A	X	-3.049	-3.049	0	%100
122	M129A	Z	5.281	5.281	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-6.53	-6.53	0	%100
2	M4	Z	3.77	3.77	0	%100
3	M10	X	-2.27	-2.27	0	%100
4	M10	Z	1.311	1.311	0	%100
5	M43	X	-2.27	-2.27	0	%100
6	M43	Z	1.311	1.311	0	%100
7	M46	X	-3.674	-3.674	0	%100
8	M46	Z	2.121	2.121	0	%100
9	M51B	X	-8.16	-8.16	0	%100
10	M51B	Z	4.711	4.711	0	%100
11	M52B	X	-2.04	-2.04	0	%100
12	M52B	Z	1.178	1.178	0	%100
13	M76	X	-11.021	-11.021	0	%100
14	M76	Z	6.363	6.363	0	%100
15	M77	X	-14.967	-14.967	0	%100
16	M77	Z	8.641	8.641	0	%100
17	M80	X	-15.764	-15.764	0	%100
18	M80	Z	9.101	9.101	0	%100
19	M84	X	-11.021	-11.021	0	%100
20	M84	Z	6.363	6.363	0	%100
21	M85	X	-3.742	-3.742	0	%100
22	M85	Z	2.16	2.16	0	%100
23	M91	X	-3.941	-3.941	0	%100
24	M91	Z	2.275	2.275	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-9.082	-9.082	0	%100
28	M26	Z	5.243	5.243	0	%100
29	M27	X	-9.082	-9.082	0	%100
30	M27	Z	5.243	5.243	0	%100
31	M28	X	-14.694	-14.694	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,%]
32	M28	Z	8.484	8.484	0	%100
33	M31	X	-2.04	-2.04	0	%100
34	M31	Z	1.178	1.178	0	%100
35	M32	X	-2.04	-2.04	0	%100
36	M32	Z	1.178	1.178	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	-3.742	-3.742	0	%100
40	M37	Z	2.16	2.16	0	%100
41	M39	X	-3.941	-3.941	0	%100
42	M39	Z	2.275	2.275	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	-3.742	-3.742	0	%100
46	M42	Z	2.16	2.16	0	%100
47	M44	X	-3.941	-3.941	0	%100
48	M44	Z	2.275	2.275	0	%100
49	M49	X	-6.53	-6.53	0	%100
50	M49	Z	3.77	3.77	0	%100
51	M50A	X	-2.27	-2.27	0	%100
52	M50A	Z	1.311	1.311	0	%100
53	M51C	X	-2.27	-2.27	0	%100
54	M51C	Z	1.311	1.311	0	%100
55	M52A	X	-3.674	-3.674	0	%100
56	M52A	Z	2.121	2.121	0	%100
57	M55	X	-2.04	-2.04	0	%100
58	M55	Z	1.178	1.178	0	%100
59	M56	X	-8.16	-8.16	0	%100
60	M56	Z	4.711	4.711	0	%100
61	M60	X	-11.021	-11.021	0	%100
62	M60	Z	6.363	6.363	0	%100
63	M61	X	-3.742	-3.742	0	%100
64	M61	Z	2.16	2.16	0	%100
65	M63	X	-3.941	-3.941	0	%100
66	M63	Z	2.275	2.275	0	%100
67	M65	X	-11.021	-11.021	0	%100
68	M65	Z	6.363	6.363	0	%100
69	M66	X	-14.967	-14.967	0	%100
70	M66	Z	8.641	8.641	0	%100
71	M68	X	-15.764	-15.764	0	%100
72	M68	Z	9.101	9.101	0	%100
73	M73	X	-2.143	-2.143	0	%100
74	M73	Z	1.237	1.237	0	%100
75	M74	X	-8.572	-8.572	0	%100
76	M74	Z	4.949	4.949	0	%100
77	M75	X	-2.143	-2.143	0	%100
78	M75	Z	1.237	1.237	0	%100
79	MP1A	X	-5.817	-5.817	0	%100
80	MP1A	Z	3.358	3.358	0	%100
81	MP2A	X	-7.041	-7.041	0	%100
82	MP2A	Z	4.065	4.065	0	%100
83	MP3A	X	-5.817	-5.817	0	%100
84	MP3A	Z	3.358	3.358	0	%100
85	MP4A	X	-5.817	-5.817	0	%100
86	MP4A	Z	3.358	3.358	0	%100
87	MP1C	X	-5.817	-5.817	0	%100
88	MP1C	Z	3.358	3.358	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,%]
89	MP2C	X	-7.041	-7.041	0	%100
90	MP2C	Z	4.065	4.065	0	%100
91	MP3C	X	-5.817	-5.817	0	%100
92	MP3C	Z	3.358	3.358	0	%100
93	MP4C	X	-5.817	-5.817	0	%100
94	MP4C	Z	3.358	3.358	0	%100
95	MP1B	X	-5.817	-5.817	0	%100
96	MP1B	Z	3.358	3.358	0	%100
97	MP2B	X	-7.041	-7.041	0	%100
98	MP2B	Z	4.065	4.065	0	%100
99	MP3B	X	-5.817	-5.817	0	%100
100	MP3B	Z	3.358	3.358	0	%100
101	MP4B	X	-5.817	-5.817	0	%100
102	MP4B	Z	3.358	3.358	0	%100
103	M101	X	-4.756	-4.756	0	%100
104	M101	Z	2.746	2.746	0	%100
105	M103	X	-5.301	-5.301	0	%100
106	M103	Z	3.06	3.06	0	%100
107	M104	X	-1.76	-1.76	0	%100
108	M104	Z	1.016	1.016	0	%100
109	M125	X	-8.012	-8.012	0	%100
110	M125	Z	4.626	4.626	0	%100
111	M126	X	-2.003	-2.003	0	%100
112	M126	Z	1.156	1.156	0	%100
113	M127	X	-2.003	-2.003	0	%100
114	M127	Z	1.156	1.156	0	%100
115	M128	X	-10.397	-10.397	0	%100
116	M128	Z	6.003	6.003	0	%100
117	M129	X	-9.768	-9.768	0	%100
118	M129	Z	5.639	5.639	0	%100
119	M130	X	-10.397	-10.397	0	%100
120	M130	Z	6.003	6.003	0	%100
121	M129A	X	-7.041	-7.041	0	%100
122	M129A	Z	4.065	4.065	0	%100
123	M130A	X	-1.76	-1.76	0	%100
124	M130A	Z	1.016	1.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-10.053	-10.053	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-7.066	-7.066	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-7.066	-7.066	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-16.968	-16.968	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-12.961	-12.961	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-13.652	-13.652	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,%]
18	M80	Z	0	0	0	%100
19	M84	X	-16.968	-16.968	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-12.961	-12.961	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-13.652	-13.652	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	-2.513	-2.513	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-7.865	-7.865	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	-7.865	-7.865	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	-12.726	-12.726	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	-7.066	-7.066	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M36	X	-4.242	-4.242	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	-12.961	-12.961	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	-13.652	-13.652	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	-4.242	-4.242	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M49	X	-2.513	-2.513	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	-7.865	-7.865	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	-7.865	-7.865	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	-12.726	-12.726	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	0	0	0	%100
59	M56	X	-7.066	-7.066	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	-4.242	-4.242	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M65	X	-4.242	-4.242	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-12.961	-12.961	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	-13.652	-13.652	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	0	0	0	%100
74	M73	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,%]
75	M74	X	-7.423	-7.423	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	-7.423	-7.423	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	-6.716	-6.716	0	%100
80	MP1A	Z	0	0	0	%100
81	MP2A	X	-8.13	-8.13	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	-6.716	-6.716	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	-6.716	-6.716	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	-6.716	-6.716	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	-8.13	-8.13	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	-6.716	-6.716	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	-6.716	-6.716	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	-6.716	-6.716	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-8.13	-8.13	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-6.716	-6.716	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-6.716	-6.716	0	%100
102	MP4B	Z	0	0	0	%100
103	M101	X	-5.492	-5.492	0	%100
104	M101	Z	0	0	0	%100
105	M103	X	-6.121	-6.121	0	%100
106	M103	Z	0	0	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	0	0	0	%100
109	M125	X	-6.939	-6.939	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	-6.939	-6.939	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	0	0	0	%100
115	M128	X	-12.247	-12.247	0	%100
116	M128	Z	0	0	0	%100
117	M129	X	-11.521	-11.521	0	%100
118	M129	Z	0	0	0	%100
119	M130	X	-11.521	-11.521	0	%100
120	M130	Z	0	0	0	%100
121	M129A	X	-6.098	-6.098	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	-6.098	-6.098	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-6.53	-6.53	0	%100
2	M4	Z	-3.77	-3.77	0	%100
3	M10	X	-2.27	-2.27	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,%]
4	M10	Z	-1.311	-1.311	0	%100
5	M43	X	-2.27	-2.27	0	%100
6	M43	Z	-1.311	-1.311	0	%100
7	M46	X	-3.674	-3.674	0	%100
8	M46	Z	-2.121	-2.121	0	%100
9	M51B	X	-2.04	-2.04	0	%100
10	M51B	Z	-1.178	-1.178	0	%100
11	M52B	X	-8.16	-8.16	0	%100
12	M52B	Z	-4.711	-4.711	0	%100
13	M76	X	-11.021	-11.021	0	%100
14	M76	Z	-6.363	-6.363	0	%100
15	M77	X	-3.742	-3.742	0	%100
16	M77	Z	-2.16	-2.16	0	%100
17	M80	X	-3.941	-3.941	0	%100
18	M80	Z	-2.275	-2.275	0	%100
19	M84	X	-11.021	-11.021	0	%100
20	M84	Z	-6.363	-6.363	0	%100
21	M85	X	-14.967	-14.967	0	%100
22	M85	Z	-8.641	-8.641	0	%100
23	M91	X	-15.764	-15.764	0	%100
24	M91	Z	-9.101	-9.101	0	%100
25	M25	X	-6.53	-6.53	0	%100
26	M25	Z	-3.77	-3.77	0	%100
27	M26	X	-2.27	-2.27	0	%100
28	M26	Z	-1.311	-1.311	0	%100
29	M27	X	-2.27	-2.27	0	%100
30	M27	Z	-1.311	-1.311	0	%100
31	M28	X	-3.674	-3.674	0	%100
32	M28	Z	-2.121	-2.121	0	%100
33	M31	X	-8.16	-8.16	0	%100
34	M31	Z	-4.711	-4.711	0	%100
35	M32	X	-2.04	-2.04	0	%100
36	M32	Z	-1.178	-1.178	0	%100
37	M36	X	-11.021	-11.021	0	%100
38	M36	Z	-6.363	-6.363	0	%100
39	M37	X	-14.967	-14.967	0	%100
40	M37	Z	-8.641	-8.641	0	%100
41	M39	X	-15.764	-15.764	0	%100
42	M39	Z	-9.101	-9.101	0	%100
43	M41	X	-11.021	-11.021	0	%100
44	M41	Z	-6.363	-6.363	0	%100
45	M42	X	-3.742	-3.742	0	%100
46	M42	Z	-2.16	-2.16	0	%100
47	M44	X	-3.941	-3.941	0	%100
48	M44	Z	-2.275	-2.275	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	-9.082	-9.082	0	%100
52	M50A	Z	-5.243	-5.243	0	%100
53	M51C	X	-9.082	-9.082	0	%100
54	M51C	Z	-5.243	-5.243	0	%100
55	M52A	X	-14.694	-14.694	0	%100
56	M52A	Z	-8.484	-8.484	0	%100
57	M55	X	-2.04	-2.04	0	%100
58	M55	Z	-1.178	-1.178	0	%100
59	M56	X	-2.04	-2.04	0	%100
60	M56	Z	-1.178	-1.178	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,%]
61	M60	X	0	0	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	-3.742	-3.742	0	%100
64	M61	Z	-2.16	-2.16	0	%100
65	M63	X	-3.941	-3.941	0	%100
66	M63	Z	-2.275	-2.275	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-3.742	-3.742	0	%100
70	M66	Z	-2.16	-2.16	0	%100
71	M68	X	-3.941	-3.941	0	%100
72	M68	Z	-2.275	-2.275	0	%100
73	M73	X	-2.143	-2.143	0	%100
74	M73	Z	-1.237	-1.237	0	%100
75	M74	X	-2.143	-2.143	0	%100
76	M74	Z	-1.237	-1.237	0	%100
77	M75	X	-8.572	-8.572	0	%100
78	M75	Z	-4.949	-4.949	0	%100
79	MP1A	X	-5.817	-5.817	0	%100
80	MP1A	Z	-3.358	-3.358	0	%100
81	MP2A	X	-7.041	-7.041	0	%100
82	MP2A	Z	-4.065	-4.065	0	%100
83	MP3A	X	-5.817	-5.817	0	%100
84	MP3A	Z	-3.358	-3.358	0	%100
85	MP4A	X	-5.817	-5.817	0	%100
86	MP4A	Z	-3.358	-3.358	0	%100
87	MP1C	X	-5.817	-5.817	0	%100
88	MP1C	Z	-3.358	-3.358	0	%100
89	MP2C	X	-7.041	-7.041	0	%100
90	MP2C	Z	-4.065	-4.065	0	%100
91	MP3C	X	-5.817	-5.817	0	%100
92	MP3C	Z	-3.358	-3.358	0	%100
93	MP4C	X	-5.817	-5.817	0	%100
94	MP4C	Z	-3.358	-3.358	0	%100
95	MP1B	X	-5.817	-5.817	0	%100
96	MP1B	Z	-3.358	-3.358	0	%100
97	MP2B	X	-7.041	-7.041	0	%100
98	MP2B	Z	-4.065	-4.065	0	%100
99	MP3B	X	-5.817	-5.817	0	%100
100	MP3B	Z	-3.358	-3.358	0	%100
101	MP4B	X	-5.817	-5.817	0	%100
102	MP4B	Z	-3.358	-3.358	0	%100
103	M101	X	-4.756	-4.756	0	%100
104	M101	Z	-2.746	-2.746	0	%100
105	M103	X	-5.301	-5.301	0	%100
106	M103	Z	-3.06	-3.06	0	%100
107	M104	X	-1.76	-1.76	0	%100
108	M104	Z	-1.016	-1.016	0	%100
109	M125	X	-2.003	-2.003	0	%100
110	M125	Z	-1.156	-1.156	0	%100
111	M126	X	-8.012	-8.012	0	%100
112	M126	Z	-4.626	-4.626	0	%100
113	M127	X	-2.003	-2.003	0	%100
114	M127	Z	-1.156	-1.156	0	%100
115	M128	X	-10.397	-10.397	0	%100
116	M128	Z	-6.003	-6.003	0	%100
117	M129	X	-10.397	-10.397	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,%]
118	M129	Z	-6.003	-6.003	0	%100
119	M130	X	-9.768	-9.768	0	%100
120	M130	Z	-5.639	-5.639	0	%100
121	M129A	X	-1.76	-1.76	0	%100
122	M129A	Z	-1.016	-1.016	0	%100
123	M130A	X	-7.041	-7.041	0	%100
124	M130A	Z	-4.065	-4.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-1.257	-1.257	0	%100
2	M4	Z	-2.177	-2.177	0	%100
3	M10	X	-3.933	-3.933	0	%100
4	M10	Z	-6.811	-6.811	0	%100
5	M43	X	-3.933	-3.933	0	%100
6	M43	Z	-6.811	-6.811	0	%100
7	M46	X	-6.363	-6.363	0	%100
8	M46	Z	-11.021	-11.021	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-3.533	-3.533	0	%100
12	M52B	Z	-6.12	-6.12	0	%100
13	M76	X	-2.121	-2.121	0	%100
14	M76	Z	-3.674	-3.674	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-2.121	-2.121	0	%100
20	M84	Z	-3.674	-3.674	0	%100
21	M85	X	-6.481	-6.481	0	%100
22	M85	Z	-11.225	-11.225	0	%100
23	M91	X	-6.826	-6.826	0	%100
24	M91	Z	-11.823	-11.823	0	%100
25	M25	X	-5.027	-5.027	0	%100
26	M25	Z	-8.706	-8.706	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	-3.533	-3.533	0	%100
34	M31	Z	-6.12	-6.12	0	%100
35	M32	X	-3.533	-3.533	0	%100
36	M32	Z	-6.12	-6.12	0	%100
37	M36	X	-8.484	-8.484	0	%100
38	M36	Z	-14.694	-14.694	0	%100
39	M37	X	-6.481	-6.481	0	%100
40	M37	Z	-11.225	-11.225	0	%100
41	M39	X	-6.826	-6.826	0	%100
42	M39	Z	-11.823	-11.823	0	%100
43	M41	X	-8.484	-8.484	0	%100
44	M41	Z	-14.694	-14.694	0	%100
45	M42	X	-6.481	-6.481	0	%100
46	M42	Z	-11.225	-11.225	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,%]
47	M44	X	-6.826	-6.826	0	%100
48	M44	Z	-11.823	-11.823	0	%100
49	M49	X	-1.257	-1.257	0	%100
50	M49	Z	-2.177	-2.177	0	%100
51	M50A	X	-3.933	-3.933	0	%100
52	M50A	Z	-6.811	-6.811	0	%100
53	M51C	X	-3.933	-3.933	0	%100
54	M51C	Z	-6.811	-6.811	0	%100
55	M52A	X	-6.363	-6.363	0	%100
56	M52A	Z	-11.021	-11.021	0	%100
57	M55	X	-3.533	-3.533	0	%100
58	M55	Z	-6.12	-6.12	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	-2.121	-2.121	0	%100
62	M60	Z	-3.674	-3.674	0	%100
63	M61	X	-6.481	-6.481	0	%100
64	M61	Z	-11.225	-11.225	0	%100
65	M63	X	-6.826	-6.826	0	%100
66	M63	Z	-11.823	-11.823	0	%100
67	M65	X	-2.121	-2.121	0	%100
68	M65	Z	-3.674	-3.674	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	-3.712	-3.712	0	%100
74	M73	Z	-6.429	-6.429	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	-3.712	-3.712	0	%100
78	M75	Z	-6.429	-6.429	0	%100
79	MP1A	X	-3.358	-3.358	0	%100
80	MP1A	Z	-5.817	-5.817	0	%100
81	MP2A	X	-4.065	-4.065	0	%100
82	MP2A	Z	-7.041	-7.041	0	%100
83	MP3A	X	-3.358	-3.358	0	%100
84	MP3A	Z	-5.817	-5.817	0	%100
85	MP4A	X	-3.358	-3.358	0	%100
86	MP4A	Z	-5.817	-5.817	0	%100
87	MP1C	X	-3.358	-3.358	0	%100
88	MP1C	Z	-5.817	-5.817	0	%100
89	MP2C	X	-4.065	-4.065	0	%100
90	MP2C	Z	-7.041	-7.041	0	%100
91	MP3C	X	-3.358	-3.358	0	%100
92	MP3C	Z	-5.817	-5.817	0	%100
93	MP4C	X	-3.358	-3.358	0	%100
94	MP4C	Z	-5.817	-5.817	0	%100
95	MP1B	X	-3.358	-3.358	0	%100
96	MP1B	Z	-5.817	-5.817	0	%100
97	MP2B	X	-4.065	-4.065	0	%100
98	MP2B	Z	-7.041	-7.041	0	%100
99	MP3B	X	-3.358	-3.358	0	%100
100	MP3B	Z	-5.817	-5.817	0	%100
101	MP4B	X	-3.358	-3.358	0	%100
102	MP4B	Z	-5.817	-5.817	0	%100
103	M101	X	-2.746	-2.746	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,%]
104	M101	Z	-4.756	-4.756	0	%100
105	M103	X	-3.06	-3.06	0	%100
106	M103	Z	-5.301	-5.301	0	%100
107	M104	X	-3.049	-3.049	0	%100
108	M104	Z	-5.281	-5.281	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	-3.469	-3.469	0	%100
112	M126	Z	-6.009	-6.009	0	%100
113	M127	X	-3.469	-3.469	0	%100
114	M127	Z	-6.009	-6.009	0	%100
115	M128	X	-5.76	-5.76	0	%100
116	M128	Z	-9.977	-9.977	0	%100
117	M129	X	-6.124	-6.124	0	%100
118	M129	Z	-10.607	-10.607	0	%100
119	M130	X	-5.76	-5.76	0	%100
120	M130	Z	-9.977	-9.977	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	-3.049	-3.049	0	%100
124	M130A	Z	-5.281	-5.281	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-3.107	-3.107	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-3.107	-3.107	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-4.136	-4.136	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-.779	-.779	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-.779	-.779	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-1.039	-1.039	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-1.081	-1.081	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-1.039	-1.039	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-1.081	-1.081	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-2.513	-2.513	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	-.777	-.777	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	-.777	-.777	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	-1.034	-1.034	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,%]
33	M31	X	0	0	0	%100
34	M31	Z	-.779	-.779	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	-3.117	-3.117	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	-3.073	-3.073	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	-1.039	-1.039	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-1.081	-1.081	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	-3.073	-3.073	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-4.154	-4.154	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-4.322	-4.322	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	-2.513	-2.513	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	-.777	-.777	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	-.777	-.777	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	-1.034	-1.034	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	-3.117	-3.117	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	-.779	-.779	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	-3.073	-3.073	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	-4.154	-4.154	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-4.322	-4.322	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	-3.073	-3.073	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	-1.039	-1.039	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-1.081	-1.081	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-3.519	-3.519	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	-.88	-.88	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	-.88	-.88	0	%100
79	MP1A	X	0	0	0	%100
80	MP1A	Z	-2.834	-2.834	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-3.092	-3.092	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-2.834	-2.834	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-2.834	-2.834	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	-2.834	-2.834	0	%100
89	MP2C	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,%]
90	MP2C	Z	-3.092	-3.092	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-2.834	-2.834	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	-2.834	-2.834	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-2.834	-2.834	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-3.092	-3.092	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-2.834	-2.834	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-2.834	-2.834	0	%100
103	M101	X	0	0	0	%100
104	M101	Z	-2.266	-2.266	0	%100
105	M103	X	0	0	0	%100
106	M103	Z	-2.496	-2.496	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	-3.196	-3.196	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	-.688	-.688	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	-.688	-.688	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	-2.75	-2.75	0	%100
115	M128	X	0	0	0	%100
116	M128	Z	-2.763	-2.763	0	%100
117	M129	X	0	0	0	%100
118	M129	Z	-3.423	-3.423	0	%100
119	M130	X	0	0	0	%100
120	M130	Z	-3.423	-3.423	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	-.799	-.799	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	-.799	-.799	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.419	.419	0	%100
2	M4	Z	-.725	-.725	0	%100
3	M10	X	1.165	1.165	0	%100
4	M10	Z	-2.018	-2.018	0	%100
5	M43	X	1.165	1.165	0	%100
6	M43	Z	-2.018	-2.018	0	%100
7	M46	X	1.551	1.551	0	%100
8	M46	Z	-2.686	-2.686	0	%100
9	M51B	X	1.169	1.169	0	%100
10	M51B	Z	-2.025	-2.025	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	.512	.512	0	%100
14	M76	Z	-.887	-.887	0	%100
15	M77	X	1.558	1.558	0	%100
16	M77	Z	-2.698	-2.698	0	%100
17	M80	X	1.621	1.621	0	%100
18	M80	Z	-2.807	-2.807	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,%]
19	M84	X	.512	.512	0	%100
20	M84	Z	-.887	-.887	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	.419	.419	0	%100
26	M25	Z	-.725	-.725	0	%100
27	M26	X	1.165	1.165	0	%100
28	M26	Z	-2.018	-2.018	0	%100
29	M27	X	1.165	1.165	0	%100
30	M27	Z	-2.018	-2.018	0	%100
31	M28	X	1.551	1.551	0	%100
32	M28	Z	-2.686	-2.686	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	1.169	1.169	0	%100
36	M32	Z	-2.025	-2.025	0	%100
37	M36	X	.512	.512	0	%100
38	M36	Z	-.887	-.887	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	.512	.512	0	%100
44	M41	Z	-.887	-.887	0	%100
45	M42	X	1.558	1.558	0	%100
46	M42	Z	-2.698	-2.698	0	%100
47	M44	X	1.621	1.621	0	%100
48	M44	Z	-2.807	-2.807	0	%100
49	M49	X	1.675	1.675	0	%100
50	M49	Z	-2.901	-2.901	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	1.169	1.169	0	%100
58	M55	Z	-2.025	-2.025	0	%100
59	M56	X	1.169	1.169	0	%100
60	M56	Z	-2.025	-2.025	0	%100
61	M60	X	2.048	2.048	0	%100
62	M60	Z	-3.548	-3.548	0	%100
63	M61	X	1.558	1.558	0	%100
64	M61	Z	-2.698	-2.698	0	%100
65	M63	X	1.621	1.621	0	%100
66	M63	Z	-2.807	-2.807	0	%100
67	M65	X	2.048	2.048	0	%100
68	M65	Z	-3.548	-3.548	0	%100
69	M66	X	1.558	1.558	0	%100
70	M66	Z	-2.698	-2.698	0	%100
71	M68	X	1.621	1.621	0	%100
72	M68	Z	-2.807	-2.807	0	%100
73	M73	X	1.319	1.319	0	%100
74	M73	Z	-2.285	-2.285	0	%100
75	M74	X	1.319	1.319	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,%]
76	M74	Z	-2.285	-2.285	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	1.417	1.417	0	%100
80	MP1A	Z	-2.454	-2.454	0	%100
81	MP2A	X	1.546	1.546	0	%100
82	MP2A	Z	-2.678	-2.678	0	%100
83	MP3A	X	1.417	1.417	0	%100
84	MP3A	Z	-2.454	-2.454	0	%100
85	MP4A	X	1.417	1.417	0	%100
86	MP4A	Z	-2.454	-2.454	0	%100
87	MP1C	X	1.417	1.417	0	%100
88	MP1C	Z	-2.454	-2.454	0	%100
89	MP2C	X	1.546	1.546	0	%100
90	MP2C	Z	-2.678	-2.678	0	%100
91	MP3C	X	1.417	1.417	0	%100
92	MP3C	Z	-2.454	-2.454	0	%100
93	MP4C	X	1.417	1.417	0	%100
94	MP4C	Z	-2.454	-2.454	0	%100
95	MP1B	X	1.417	1.417	0	%100
96	MP1B	Z	-2.454	-2.454	0	%100
97	MP2B	X	1.546	1.546	0	%100
98	MP2B	Z	-2.678	-2.678	0	%100
99	MP3B	X	1.417	1.417	0	%100
100	MP3B	Z	-2.454	-2.454	0	%100
101	MP4B	X	1.417	1.417	0	%100
102	MP4B	Z	-2.454	-2.454	0	%100
103	M101	X	1.133	1.133	0	%100
104	M101	Z	-1.963	-1.963	0	%100
105	M103	X	1.248	1.248	0	%100
106	M103	Z	-2.161	-2.161	0	%100
107	M104	X	1.198	1.198	0	%100
108	M104	Z	-2.076	-2.076	0	%100
109	M125	X	1.031	1.031	0	%100
110	M125	Z	-1.786	-1.786	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	1.031	1.031	0	%100
114	M127	Z	-1.786	-1.786	0	%100
115	M128	X	1.491	1.491	0	%100
116	M128	Z	-2.583	-2.583	0	%100
117	M129	X	1.491	1.491	0	%100
118	M129	Z	-2.583	-2.583	0	%100
119	M130	X	1.821	1.821	0	%100
120	M130	Z	-3.155	-3.155	0	%100
121	M129A	X	1.198	1.198	0	%100
122	M129A	Z	-2.076	-2.076	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.176	2.176	0	%100
2	M4	Z	-1.256	-1.256	0	%100
3	M10	X	.673	.673	0	%100
4	M10	Z	-.388	-.388	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,%]
5	M43	X	.673	.673	0	%100
6	M43	Z	-.388	-.388	0	%100
7	M46	X	.895	.895	0	%100
8	M46	Z	-.517	-.517	0	%100
9	M51B	X	2.7	2.7	0	%100
10	M51B	Z	-1.559	-1.559	0	%100
11	M52B	X	.675	.675	0	%100
12	M52B	Z	-.39	-.39	0	%100
13	M76	X	2.661	2.661	0	%100
14	M76	Z	-1.536	-1.536	0	%100
15	M77	X	3.598	3.598	0	%100
16	M77	Z	-2.077	-2.077	0	%100
17	M80	X	3.743	3.743	0	%100
18	M80	Z	-2.161	-2.161	0	%100
19	M84	X	2.661	2.661	0	%100
20	M84	Z	-1.536	-1.536	0	%100
21	M85	X	.899	.899	0	%100
22	M85	Z	-.519	-.519	0	%100
23	M91	X	.936	.936	0	%100
24	M91	Z	-.54	-.54	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	2.69	2.69	0	%100
28	M26	Z	-1.553	-1.553	0	%100
29	M27	X	2.69	2.69	0	%100
30	M27	Z	-1.553	-1.553	0	%100
31	M28	X	3.582	3.582	0	%100
32	M28	Z	-2.068	-2.068	0	%100
33	M31	X	.675	.675	0	%100
34	M31	Z	-.39	-.39	0	%100
35	M32	X	.675	.675	0	%100
36	M32	Z	-.39	-.39	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	.899	.899	0	%100
40	M37	Z	-.519	-.519	0	%100
41	M39	X	.936	.936	0	%100
42	M39	Z	-.54	-.54	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	.899	.899	0	%100
46	M42	Z	-.519	-.519	0	%100
47	M44	X	.936	.936	0	%100
48	M44	Z	-.54	-.54	0	%100
49	M49	X	2.176	2.176	0	%100
50	M49	Z	-1.256	-1.256	0	%100
51	M50A	X	.673	.673	0	%100
52	M50A	Z	-.388	-.388	0	%100
53	M51C	X	.673	.673	0	%100
54	M51C	Z	-.388	-.388	0	%100
55	M52A	X	.895	.895	0	%100
56	M52A	Z	-.517	-.517	0	%100
57	M55	X	.675	.675	0	%100
58	M55	Z	-.39	-.39	0	%100
59	M56	X	2.7	2.7	0	%100
60	M56	Z	-1.559	-1.559	0	%100
61	M60	X	2.661	2.661	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,%]
62	M60	Z	-1.536	-1.536	0	%100
63	M61	X	.899	.899	0	%100
64	M61	Z	-.519	-.519	0	%100
65	M63	X	.936	.936	0	%100
66	M63	Z	-.54	-.54	0	%100
67	M65	X	2.661	2.661	0	%100
68	M65	Z	-1.536	-1.536	0	%100
69	M66	X	3.598	3.598	0	%100
70	M66	Z	-2.077	-2.077	0	%100
71	M68	X	3.743	3.743	0	%100
72	M68	Z	-2.161	-2.161	0	%100
73	M73	X	.762	.762	0	%100
74	M73	Z	-.44	-.44	0	%100
75	M74	X	3.047	3.047	0	%100
76	M74	Z	-1.759	-1.759	0	%100
77	M75	X	.762	.762	0	%100
78	M75	Z	-.44	-.44	0	%100
79	MP1A	X	2.454	2.454	0	%100
80	MP1A	Z	-1.417	-1.417	0	%100
81	MP2A	X	2.678	2.678	0	%100
82	MP2A	Z	-1.546	-1.546	0	%100
83	MP3A	X	2.454	2.454	0	%100
84	MP3A	Z	-1.417	-1.417	0	%100
85	MP4A	X	2.454	2.454	0	%100
86	MP4A	Z	-1.417	-1.417	0	%100
87	MP1C	X	2.454	2.454	0	%100
88	MP1C	Z	-1.417	-1.417	0	%100
89	MP2C	X	2.678	2.678	0	%100
90	MP2C	Z	-1.546	-1.546	0	%100
91	MP3C	X	2.454	2.454	0	%100
92	MP3C	Z	-1.417	-1.417	0	%100
93	MP4C	X	2.454	2.454	0	%100
94	MP4C	Z	-1.417	-1.417	0	%100
95	MP1B	X	2.454	2.454	0	%100
96	MP1B	Z	-1.417	-1.417	0	%100
97	MP2B	X	2.678	2.678	0	%100
98	MP2B	Z	-1.546	-1.546	0	%100
99	MP3B	X	2.454	2.454	0	%100
100	MP3B	Z	-1.417	-1.417	0	%100
101	MP4B	X	2.454	2.454	0	%100
102	MP4B	Z	-1.417	-1.417	0	%100
103	M101	X	1.963	1.963	0	%100
104	M101	Z	-1.133	-1.133	0	%100
105	M103	X	2.161	2.161	0	%100
106	M103	Z	-1.248	-1.248	0	%100
107	M104	X	.692	.692	0	%100
108	M104	Z	-.399	-.399	0	%100
109	M125	X	2.382	2.382	0	%100
110	M125	Z	-1.375	-1.375	0	%100
111	M126	X	.595	.595	0	%100
112	M126	Z	-.344	-.344	0	%100
113	M127	X	.595	.595	0	%100
114	M127	Z	-.344	-.344	0	%100
115	M128	X	2.964	2.964	0	%100
116	M128	Z	-1.711	-1.711	0	%100
117	M129	X	2.393	2.393	0	%100
118	M129	Z	-1.381	-1.381	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,%]
119	M130	X	2.964	2.964	0	%100
120	M130	Z	-1.711	-1.711	0	%100
121	M129A	X	2.768	2.768	0	%100
122	M129A	Z	-1.598	-1.598	0	%100
123	M130A	X	.692	.692	0	%100
124	M130A	Z	-.399	-.399	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	3.35	3.35	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	2.338	2.338	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	2.338	2.338	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	4.097	4.097	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	3.116	3.116	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	3.242	3.242	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	4.097	4.097	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	3.116	3.116	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	3.242	3.242	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	.838	.838	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	2.33	2.33	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	2.33	2.33	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	3.102	3.102	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	2.338	2.338	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M36	X	1.024	1.024	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	3.116	3.116	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	3.242	3.242	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	1.024	1.024	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M44	Z	0	0	0	%100
49	M49	X	.838	.838	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	2.33	2.33	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	2.33	2.33	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	3.102	3.102	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	0	0	0	%100
59	M56	X	2.338	2.338	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	1.024	1.024	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M65	X	1.024	1.024	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	3.116	3.116	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	3.242	3.242	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	2.639	2.639	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	2.639	2.639	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	2.834	2.834	0	%100
80	MP1A	Z	0	0	0	%100
81	MP2A	X	3.092	3.092	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	2.834	2.834	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	2.834	2.834	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	2.834	2.834	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	3.092	3.092	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	2.834	2.834	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	2.834	2.834	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	2.834	2.834	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	3.092	3.092	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	2.834	2.834	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	2.834	2.834	0	%100
102	MP4B	Z	0	0	0	%100
103	M101	X	2.266	2.266	0	%100
104	M101	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
105	M103	X	2.496	2.496	0	%100
106	M103	Z	0	0	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	0	0	0	%100
109	M125	X	2.063	2.063	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	2.063	2.063	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	0	0	0	%100
115	M128	X	3.643	3.643	0	%100
116	M128	Z	0	0	0	%100
117	M129	X	2.983	2.983	0	%100
118	M129	Z	0	0	0	%100
119	M130	X	2.983	2.983	0	%100
120	M130	Z	0	0	0	%100
121	M129A	X	2.397	2.397	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	2.397	2.397	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.176	2.176	0	%100
2	M4	Z	1.256	1.256	0	%100
3	M10	X	.673	.673	0	%100
4	M10	Z	.388	.388	0	%100
5	M43	X	.673	.673	0	%100
6	M43	Z	.388	.388	0	%100
7	M46	X	.895	.895	0	%100
8	M46	Z	.517	.517	0	%100
9	M51B	X	.675	.675	0	%100
10	M51B	Z	.39	.39	0	%100
11	M52B	X	2.7	2.7	0	%100
12	M52B	Z	1.559	1.559	0	%100
13	M76	X	2.661	2.661	0	%100
14	M76	Z	1.536	1.536	0	%100
15	M77	X	.899	.899	0	%100
16	M77	Z	.519	.519	0	%100
17	M80	X	.936	.936	0	%100
18	M80	Z	.54	.54	0	%100
19	M84	X	2.661	2.661	0	%100
20	M84	Z	1.536	1.536	0	%100
21	M85	X	3.598	3.598	0	%100
22	M85	Z	2.077	2.077	0	%100
23	M91	X	3.743	3.743	0	%100
24	M91	Z	2.161	2.161	0	%100
25	M25	X	2.176	2.176	0	%100
26	M25	Z	1.256	1.256	0	%100
27	M26	X	.673	.673	0	%100
28	M26	Z	.388	.388	0	%100
29	M27	X	.673	.673	0	%100
30	M27	Z	.388	.388	0	%100
31	M28	X	.895	.895	0	%100
32	M28	Z	.517	.517	0	%100
33	M31	X	2.7	2.7	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,%]
34	M31	Z	1.559	1.559	0	%100
35	M32	X	.675	.675	0	%100
36	M32	Z	.39	.39	0	%100
37	M36	X	2.661	2.661	0	%100
38	M36	Z	1.536	1.536	0	%100
39	M37	X	3.598	3.598	0	%100
40	M37	Z	2.077	2.077	0	%100
41	M39	X	3.743	3.743	0	%100
42	M39	Z	2.161	2.161	0	%100
43	M41	X	2.661	2.661	0	%100
44	M41	Z	1.536	1.536	0	%100
45	M42	X	.899	.899	0	%100
46	M42	Z	.519	.519	0	%100
47	M44	X	.936	.936	0	%100
48	M44	Z	.54	.54	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	2.69	2.69	0	%100
52	M50A	Z	1.553	1.553	0	%100
53	M51C	X	2.69	2.69	0	%100
54	M51C	Z	1.553	1.553	0	%100
55	M52A	X	3.582	3.582	0	%100
56	M52A	Z	2.068	2.068	0	%100
57	M55	X	.675	.675	0	%100
58	M55	Z	.39	.39	0	%100
59	M56	X	.675	.675	0	%100
60	M56	Z	.39	.39	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	.899	.899	0	%100
64	M61	Z	.519	.519	0	%100
65	M63	X	.936	.936	0	%100
66	M63	Z	.54	.54	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	.899	.899	0	%100
70	M66	Z	.519	.519	0	%100
71	M68	X	.936	.936	0	%100
72	M68	Z	.54	.54	0	%100
73	M73	X	.762	.762	0	%100
74	M73	Z	.44	.44	0	%100
75	M74	X	.762	.762	0	%100
76	M74	Z	.44	.44	0	%100
77	M75	X	3.047	3.047	0	%100
78	M75	Z	1.759	1.759	0	%100
79	MP1A	X	2.454	2.454	0	%100
80	MP1A	Z	1.417	1.417	0	%100
81	MP2A	X	2.678	2.678	0	%100
82	MP2A	Z	1.546	1.546	0	%100
83	MP3A	X	2.454	2.454	0	%100
84	MP3A	Z	1.417	1.417	0	%100
85	MP4A	X	2.454	2.454	0	%100
86	MP4A	Z	1.417	1.417	0	%100
87	MP1C	X	2.454	2.454	0	%100
88	MP1C	Z	1.417	1.417	0	%100
89	MP2C	X	2.678	2.678	0	%100
90	MP2C	Z	1.546	1.546	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,%]
91	MP3C	X	2.454	2.454	0	%100
92	MP3C	Z	1.417	1.417	0	%100
93	MP4C	X	2.454	2.454	0	%100
94	MP4C	Z	1.417	1.417	0	%100
95	MP1B	X	2.454	2.454	0	%100
96	MP1B	Z	1.417	1.417	0	%100
97	MP2B	X	2.678	2.678	0	%100
98	MP2B	Z	1.546	1.546	0	%100
99	MP3B	X	2.454	2.454	0	%100
100	MP3B	Z	1.417	1.417	0	%100
101	MP4B	X	2.454	2.454	0	%100
102	MP4B	Z	1.417	1.417	0	%100
103	M101	X	1.963	1.963	0	%100
104	M101	Z	1.133	1.133	0	%100
105	M103	X	2.161	2.161	0	%100
106	M103	Z	1.248	1.248	0	%100
107	M104	X	.692	.692	0	%100
108	M104	Z	.399	.399	0	%100
109	M125	X	.595	.595	0	%100
110	M125	Z	.344	.344	0	%100
111	M126	X	2.382	2.382	0	%100
112	M126	Z	1.375	1.375	0	%100
113	M127	X	.595	.595	0	%100
114	M127	Z	.344	.344	0	%100
115	M128	X	2.964	2.964	0	%100
116	M128	Z	1.711	1.711	0	%100
117	M129	X	2.964	2.964	0	%100
118	M129	Z	1.711	1.711	0	%100
119	M130	X	2.393	2.393	0	%100
120	M130	Z	1.381	1.381	0	%100
121	M129A	X	.692	.692	0	%100
122	M129A	Z	.399	.399	0	%100
123	M130A	X	2.768	2.768	0	%100
124	M130A	Z	1.598	1.598	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.419	.419	0	%100
2	M4	Z	.725	.725	0	%100
3	M10	X	1.165	1.165	0	%100
4	M10	Z	2.018	2.018	0	%100
5	M43	X	1.165	1.165	0	%100
6	M43	Z	2.018	2.018	0	%100
7	M46	X	1.551	1.551	0	%100
8	M46	Z	2.686	2.686	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	1.169	1.169	0	%100
12	M52B	Z	2.025	2.025	0	%100
13	M76	X	.512	.512	0	%100
14	M76	Z	.887	.887	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	.512	.512	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,%]
20	M84	Z	.887	.887	0	%100
21	M85	X	1.558	1.558	0	%100
22	M85	Z	2.698	2.698	0	%100
23	M91	X	1.621	1.621	0	%100
24	M91	Z	2.807	2.807	0	%100
25	M25	X	1.675	1.675	0	%100
26	M25	Z	2.901	2.901	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	1.169	1.169	0	%100
34	M31	Z	2.025	2.025	0	%100
35	M32	X	1.169	1.169	0	%100
36	M32	Z	2.025	2.025	0	%100
37	M36	X	2.048	2.048	0	%100
38	M36	Z	3.548	3.548	0	%100
39	M37	X	1.558	1.558	0	%100
40	M37	Z	2.698	2.698	0	%100
41	M39	X	1.621	1.621	0	%100
42	M39	Z	2.807	2.807	0	%100
43	M41	X	2.048	2.048	0	%100
44	M41	Z	3.548	3.548	0	%100
45	M42	X	1.558	1.558	0	%100
46	M42	Z	2.698	2.698	0	%100
47	M44	X	1.621	1.621	0	%100
48	M44	Z	2.807	2.807	0	%100
49	M49	X	.419	.419	0	%100
50	M49	Z	.725	.725	0	%100
51	M50A	X	1.165	1.165	0	%100
52	M50A	Z	2.018	2.018	0	%100
53	M51C	X	1.165	1.165	0	%100
54	M51C	Z	2.018	2.018	0	%100
55	M52A	X	1.551	1.551	0	%100
56	M52A	Z	2.686	2.686	0	%100
57	M55	X	1.169	1.169	0	%100
58	M55	Z	2.025	2.025	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	.512	.512	0	%100
62	M60	Z	.887	.887	0	%100
63	M61	X	1.558	1.558	0	%100
64	M61	Z	2.698	2.698	0	%100
65	M63	X	1.621	1.621	0	%100
66	M63	Z	2.807	2.807	0	%100
67	M65	X	.512	.512	0	%100
68	M65	Z	.887	.887	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	1.319	1.319	0	%100
74	M73	Z	2.285	2.285	0	%100
75	M74	X	0	0	0	%100
76	M74	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,%]
77	M75	X	1.319	1.319	0	%100
78	M75	Z	2.285	2.285	0	%100
79	MP1A	X	1.417	1.417	0	%100
80	MP1A	Z	2.454	2.454	0	%100
81	MP2A	X	1.546	1.546	0	%100
82	MP2A	Z	2.678	2.678	0	%100
83	MP3A	X	1.417	1.417	0	%100
84	MP3A	Z	2.454	2.454	0	%100
85	MP4A	X	1.417	1.417	0	%100
86	MP4A	Z	2.454	2.454	0	%100
87	MP1C	X	1.417	1.417	0	%100
88	MP1C	Z	2.454	2.454	0	%100
89	MP2C	X	1.546	1.546	0	%100
90	MP2C	Z	2.678	2.678	0	%100
91	MP3C	X	1.417	1.417	0	%100
92	MP3C	Z	2.454	2.454	0	%100
93	MP4C	X	1.417	1.417	0	%100
94	MP4C	Z	2.454	2.454	0	%100
95	MP1B	X	1.417	1.417	0	%100
96	MP1B	Z	2.454	2.454	0	%100
97	MP2B	X	1.546	1.546	0	%100
98	MP2B	Z	2.678	2.678	0	%100
99	MP3B	X	1.417	1.417	0	%100
100	MP3B	Z	2.454	2.454	0	%100
101	MP4B	X	1.417	1.417	0	%100
102	MP4B	Z	2.454	2.454	0	%100
103	M101	X	1.133	1.133	0	%100
104	M101	Z	1.963	1.963	0	%100
105	M103	X	1.248	1.248	0	%100
106	M103	Z	2.161	2.161	0	%100
107	M104	X	1.198	1.198	0	%100
108	M104	Z	2.076	2.076	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	1.031	1.031	0	%100
112	M126	Z	1.786	1.786	0	%100
113	M127	X	1.031	1.031	0	%100
114	M127	Z	1.786	1.786	0	%100
115	M128	X	1.491	1.491	0	%100
116	M128	Z	2.583	2.583	0	%100
117	M129	X	1.821	1.821	0	%100
118	M129	Z	3.155	3.155	0	%100
119	M130	X	1.491	1.491	0	%100
120	M130	Z	2.583	2.583	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	1.198	1.198	0	%100
124	M130A	Z	2.076	2.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	3.107	3.107	0	%100
5	M43	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,%]
6	M43	Z	3.107	3.107	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	4.136	4.136	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	.779	.779	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	.779	.779	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	1.039	1.039	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	1.081	1.081	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	1.039	1.039	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	1.081	1.081	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	2.513	2.513	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	.777	.777	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	.777	.777	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	1.034	1.034	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	.779	.779	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	3.117	3.117	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	3.073	3.073	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	1.039	1.039	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	1.081	1.081	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	3.073	3.073	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	4.154	4.154	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	4.322	4.322	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	2.513	2.513	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	.777	.777	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	.777	.777	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	1.034	1.034	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	3.117	3.117	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	.779	.779	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	3.073	3.073	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,%]
63	M61	X	0	0	0	%100
64	M61	Z	4.154	4.154	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	4.322	4.322	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	3.073	3.073	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	1.039	1.039	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	1.081	1.081	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	3.519	3.519	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	.88	.88	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	.88	.88	0	%100
79	MP1A	X	0	0	0	%100
80	MP1A	Z	2.834	2.834	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	3.092	3.092	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	2.834	2.834	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	2.834	2.834	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	2.834	2.834	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	3.092	3.092	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	2.834	2.834	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	2.834	2.834	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	2.834	2.834	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	3.092	3.092	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	2.834	2.834	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	2.834	2.834	0	%100
103	M101	X	0	0	0	%100
104	M101	Z	2.266	2.266	0	%100
105	M103	X	0	0	0	%100
106	M103	Z	2.496	2.496	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	3.196	3.196	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	.688	.688	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	.688	.688	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	2.75	2.75	0	%100
115	M128	X	0	0	0	%100
116	M128	Z	2.763	2.763	0	%100
117	M129	X	0	0	0	%100
118	M129	Z	3.423	3.423	0	%100
119	M130	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,%]
120	M130	Z	3.423	3.423	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	.799	.799	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	.799	.799	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.419	-.419	0	%100
2	M4	Z	.725	.725	0	%100
3	M10	X	-1.165	-1.165	0	%100
4	M10	Z	2.018	2.018	0	%100
5	M43	X	-1.165	-1.165	0	%100
6	M43	Z	2.018	2.018	0	%100
7	M46	X	-1.551	-1.551	0	%100
8	M46	Z	2.686	2.686	0	%100
9	M51B	X	-1.169	-1.169	0	%100
10	M51B	Z	2.025	2.025	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-.512	-.512	0	%100
14	M76	Z	.887	.887	0	%100
15	M77	X	-1.558	-1.558	0	%100
16	M77	Z	2.698	2.698	0	%100
17	M80	X	-1.621	-1.621	0	%100
18	M80	Z	2.807	2.807	0	%100
19	M84	X	-.512	-.512	0	%100
20	M84	Z	.887	.887	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	-.419	-.419	0	%100
26	M25	Z	.725	.725	0	%100
27	M26	X	-1.165	-1.165	0	%100
28	M26	Z	2.018	2.018	0	%100
29	M27	X	-1.165	-1.165	0	%100
30	M27	Z	2.018	2.018	0	%100
31	M28	X	-1.551	-1.551	0	%100
32	M28	Z	2.686	2.686	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	-1.169	-1.169	0	%100
36	M32	Z	2.025	2.025	0	%100
37	M36	X	-.512	-.512	0	%100
38	M36	Z	.887	.887	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	-.512	-.512	0	%100
44	M41	Z	.887	.887	0	%100
45	M42	X	-1.558	-1.558	0	%100
46	M42	Z	2.698	2.698	0	%100
47	M44	X	-1.621	-1.621	0	%100
48	M44	Z	2.807	2.807	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,%]
49	M49	X	-1.675	-1.675	0	%100
50	M49	Z	2.901	2.901	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	-1.169	-1.169	0	%100
58	M55	Z	2.025	2.025	0	%100
59	M56	X	-1.169	-1.169	0	%100
60	M56	Z	2.025	2.025	0	%100
61	M60	X	-2.048	-2.048	0	%100
62	M60	Z	3.548	3.548	0	%100
63	M61	X	-1.558	-1.558	0	%100
64	M61	Z	2.698	2.698	0	%100
65	M63	X	-1.621	-1.621	0	%100
66	M63	Z	2.807	2.807	0	%100
67	M65	X	-2.048	-2.048	0	%100
68	M65	Z	3.548	3.548	0	%100
69	M66	X	-1.558	-1.558	0	%100
70	M66	Z	2.698	2.698	0	%100
71	M68	X	-1.621	-1.621	0	%100
72	M68	Z	2.807	2.807	0	%100
73	M73	X	-1.319	-1.319	0	%100
74	M73	Z	2.285	2.285	0	%100
75	M74	X	-1.319	-1.319	0	%100
76	M74	Z	2.285	2.285	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	-1.417	-1.417	0	%100
80	MP1A	Z	2.454	2.454	0	%100
81	MP2A	X	-1.546	-1.546	0	%100
82	MP2A	Z	2.678	2.678	0	%100
83	MP3A	X	-1.417	-1.417	0	%100
84	MP3A	Z	2.454	2.454	0	%100
85	MP4A	X	-1.417	-1.417	0	%100
86	MP4A	Z	2.454	2.454	0	%100
87	MP1C	X	-1.417	-1.417	0	%100
88	MP1C	Z	2.454	2.454	0	%100
89	MP2C	X	-1.546	-1.546	0	%100
90	MP2C	Z	2.678	2.678	0	%100
91	MP3C	X	-1.417	-1.417	0	%100
92	MP3C	Z	2.454	2.454	0	%100
93	MP4C	X	-1.417	-1.417	0	%100
94	MP4C	Z	2.454	2.454	0	%100
95	MP1B	X	-1.417	-1.417	0	%100
96	MP1B	Z	2.454	2.454	0	%100
97	MP2B	X	-1.546	-1.546	0	%100
98	MP2B	Z	2.678	2.678	0	%100
99	MP3B	X	-1.417	-1.417	0	%100
100	MP3B	Z	2.454	2.454	0	%100
101	MP4B	X	-1.417	-1.417	0	%100
102	MP4B	Z	2.454	2.454	0	%100
103	M101	X	-1.133	-1.133	0	%100
104	M101	Z	1.963	1.963	0	%100
105	M103	X	-1.248	-1.248	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,%]
106	M103	Z	2.161	2.161	0	%100
107	M104	X	-1.198	-1.198	0	%100
108	M104	Z	2.076	2.076	0	%100
109	M125	X	-1.031	-1.031	0	%100
110	M125	Z	1.786	1.786	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	-1.031	-1.031	0	%100
114	M127	Z	1.786	1.786	0	%100
115	M128	X	-1.491	-1.491	0	%100
116	M128	Z	2.583	2.583	0	%100
117	M129	X	-1.491	-1.491	0	%100
118	M129	Z	2.583	2.583	0	%100
119	M130	X	-1.821	-1.821	0	%100
120	M130	Z	3.155	3.155	0	%100
121	M129A	X	-1.198	-1.198	0	%100
122	M129A	Z	2.076	2.076	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-2.176	-2.176	0	%100
2	M4	Z	1.256	1.256	0	%100
3	M10	X	-.673	-.673	0	%100
4	M10	Z	.388	.388	0	%100
5	M43	X	-.673	-.673	0	%100
6	M43	Z	.388	.388	0	%100
7	M46	X	-.895	-.895	0	%100
8	M46	Z	.517	.517	0	%100
9	M51B	X	-2.7	-2.7	0	%100
10	M51B	Z	1.559	1.559	0	%100
11	M52B	X	-.675	-.675	0	%100
12	M52B	Z	.39	.39	0	%100
13	M76	X	-2.661	-2.661	0	%100
14	M76	Z	1.536	1.536	0	%100
15	M77	X	-3.598	-3.598	0	%100
16	M77	Z	2.077	2.077	0	%100
17	M80	X	-3.743	-3.743	0	%100
18	M80	Z	2.161	2.161	0	%100
19	M84	X	-2.661	-2.661	0	%100
20	M84	Z	1.536	1.536	0	%100
21	M85	X	-.899	-.899	0	%100
22	M85	Z	.519	.519	0	%100
23	M91	X	-.936	-.936	0	%100
24	M91	Z	.54	.54	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-2.69	-2.69	0	%100
28	M26	Z	1.553	1.553	0	%100
29	M27	X	-2.69	-2.69	0	%100
30	M27	Z	1.553	1.553	0	%100
31	M28	X	-3.582	-3.582	0	%100
32	M28	Z	2.068	2.068	0	%100
33	M31	X	-.675	-.675	0	%100
34	M31	Z	.39	.39	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	M32	X	-.675	-.675	0	%100
36	M32	Z	.39	.39	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	-.899	-.899	0	%100
40	M37	Z	.519	.519	0	%100
41	M39	X	-.936	-.936	0	%100
42	M39	Z	.54	.54	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	-.899	-.899	0	%100
46	M42	Z	.519	.519	0	%100
47	M44	X	-.936	-.936	0	%100
48	M44	Z	.54	.54	0	%100
49	M49	X	-2.176	-2.176	0	%100
50	M49	Z	1.256	1.256	0	%100
51	M50A	X	-.673	-.673	0	%100
52	M50A	Z	.388	.388	0	%100
53	M51C	X	-.673	-.673	0	%100
54	M51C	Z	.388	.388	0	%100
55	M52A	X	-.895	-.895	0	%100
56	M52A	Z	.517	.517	0	%100
57	M55	X	-.675	-.675	0	%100
58	M55	Z	.39	.39	0	%100
59	M56	X	-2.7	-2.7	0	%100
60	M56	Z	1.559	1.559	0	%100
61	M60	X	-2.661	-2.661	0	%100
62	M60	Z	1.536	1.536	0	%100
63	M61	X	-.899	-.899	0	%100
64	M61	Z	.519	.519	0	%100
65	M63	X	-.936	-.936	0	%100
66	M63	Z	.54	.54	0	%100
67	M65	X	-2.661	-2.661	0	%100
68	M65	Z	1.536	1.536	0	%100
69	M66	X	-3.598	-3.598	0	%100
70	M66	Z	2.077	2.077	0	%100
71	M68	X	-3.743	-3.743	0	%100
72	M68	Z	2.161	2.161	0	%100
73	M73	X	-.762	-.762	0	%100
74	M73	Z	.44	.44	0	%100
75	M74	X	-3.047	-3.047	0	%100
76	M74	Z	1.759	1.759	0	%100
77	M75	X	-.762	-.762	0	%100
78	M75	Z	.44	.44	0	%100
79	MP1A	X	-2.454	-2.454	0	%100
80	MP1A	Z	1.417	1.417	0	%100
81	MP2A	X	-2.678	-2.678	0	%100
82	MP2A	Z	1.546	1.546	0	%100
83	MP3A	X	-2.454	-2.454	0	%100
84	MP3A	Z	1.417	1.417	0	%100
85	MP4A	X	-2.454	-2.454	0	%100
86	MP4A	Z	1.417	1.417	0	%100
87	MP1C	X	-2.454	-2.454	0	%100
88	MP1C	Z	1.417	1.417	0	%100
89	MP2C	X	-2.678	-2.678	0	%100
90	MP2C	Z	1.546	1.546	0	%100
91	MP3C	X	-2.454	-2.454	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,%]
92	MP3C	Z	1.417	1.417	0	%100
93	MP4C	X	-2.454	-2.454	0	%100
94	MP4C	Z	1.417	1.417	0	%100
95	MP1B	X	-2.454	-2.454	0	%100
96	MP1B	Z	1.417	1.417	0	%100
97	MP2B	X	-2.678	-2.678	0	%100
98	MP2B	Z	1.546	1.546	0	%100
99	MP3B	X	-2.454	-2.454	0	%100
100	MP3B	Z	1.417	1.417	0	%100
101	MP4B	X	-2.454	-2.454	0	%100
102	MP4B	Z	1.417	1.417	0	%100
103	M101	X	-1.963	-1.963	0	%100
104	M101	Z	1.133	1.133	0	%100
105	M103	X	-2.161	-2.161	0	%100
106	M103	Z	1.248	1.248	0	%100
107	M104	X	-.692	-.692	0	%100
108	M104	Z	.399	.399	0	%100
109	M125	X	-2.382	-2.382	0	%100
110	M125	Z	1.375	1.375	0	%100
111	M126	X	-.595	-.595	0	%100
112	M126	Z	.344	.344	0	%100
113	M127	X	-.595	-.595	0	%100
114	M127	Z	.344	.344	0	%100
115	M128	X	-2.964	-2.964	0	%100
116	M128	Z	1.711	1.711	0	%100
117	M129	X	-2.393	-2.393	0	%100
118	M129	Z	1.381	1.381	0	%100
119	M130	X	-2.964	-2.964	0	%100
120	M130	Z	1.711	1.711	0	%100
121	M129A	X	-2.768	-2.768	0	%100
122	M129A	Z	1.598	1.598	0	%100
123	M130A	X	-.692	-.692	0	%100
124	M130A	Z	.399	.399	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-3.35	-3.35	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-2.338	-2.338	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-2.338	-2.338	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-4.097	-4.097	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-3.116	-3.116	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-3.242	-3.242	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-4.097	-4.097	0	%100
20	M84	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,%]
21	M85	X	-3.116	-3.116	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-3.242	-3.242	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	-.838	-.838	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-2.33	-2.33	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	-2.33	-2.33	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	-3.102	-3.102	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	-2.338	-2.338	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M36	X	-1.024	-1.024	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	-3.116	-3.116	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	-3.242	-3.242	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	-1.024	-1.024	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M49	X	-.838	-.838	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	-2.33	-2.33	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	-2.33	-2.33	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	-3.102	-3.102	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	0	0	0	%100
59	M56	X	-2.338	-2.338	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	-1.024	-1.024	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M65	X	-1.024	-1.024	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-3.116	-3.116	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	-3.242	-3.242	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	-2.639	-2.639	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	-2.639	-2.639	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,%]
78	M75	Z	0	0	0	%100
79	MP1A	X	-2.834	-2.834	0	%100
80	MP1A	Z	0	0	0	%100
81	MP2A	X	-3.092	-3.092	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	-2.834	-2.834	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	-2.834	-2.834	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	-2.834	-2.834	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	-3.092	-3.092	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	-2.834	-2.834	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	-2.834	-2.834	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	-2.834	-2.834	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-3.092	-3.092	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-2.834	-2.834	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-2.834	-2.834	0	%100
102	MP4B	Z	0	0	0	%100
103	M101	X	-2.266	-2.266	0	%100
104	M101	Z	0	0	0	%100
105	M103	X	-2.496	-2.496	0	%100
106	M103	Z	0	0	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	0	0	0	%100
109	M125	X	-2.063	-2.063	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	-2.063	-2.063	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	0	0	0	%100
115	M128	X	-3.643	-3.643	0	%100
116	M128	Z	0	0	0	%100
117	M129	X	-2.983	-2.983	0	%100
118	M129	Z	0	0	0	%100
119	M130	X	-2.983	-2.983	0	%100
120	M130	Z	0	0	0	%100
121	M129A	X	-2.397	-2.397	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	-2.397	-2.397	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-2.176	-2.176	0	%100
2	M4	Z	-1.256	-1.256	0	%100
3	M10	X	-.673	-.673	0	%100
4	M10	Z	-.388	-.388	0	%100
5	M43	X	-.673	-.673	0	%100
6	M43	Z	-.388	-.388	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,%]
7	M46	X	-.895	-.895	0	%100
8	M46	Z	-.517	-.517	0	%100
9	M51B	X	-.675	-.675	0	%100
10	M51B	Z	-.39	-.39	0	%100
11	M52B	X	-2.7	-2.7	0	%100
12	M52B	Z	-1.559	-1.559	0	%100
13	M76	X	-2.661	-2.661	0	%100
14	M76	Z	-1.536	-1.536	0	%100
15	M77	X	-.899	-.899	0	%100
16	M77	Z	-.519	-.519	0	%100
17	M80	X	-.936	-.936	0	%100
18	M80	Z	-.54	-.54	0	%100
19	M84	X	-2.661	-2.661	0	%100
20	M84	Z	-1.536	-1.536	0	%100
21	M85	X	-3.598	-3.598	0	%100
22	M85	Z	-2.077	-2.077	0	%100
23	M91	X	-3.743	-3.743	0	%100
24	M91	Z	-2.161	-2.161	0	%100
25	M25	X	-2.176	-2.176	0	%100
26	M25	Z	-1.256	-1.256	0	%100
27	M26	X	-.673	-.673	0	%100
28	M26	Z	-.388	-.388	0	%100
29	M27	X	-.673	-.673	0	%100
30	M27	Z	-.388	-.388	0	%100
31	M28	X	-.895	-.895	0	%100
32	M28	Z	-.517	-.517	0	%100
33	M31	X	-2.7	-2.7	0	%100
34	M31	Z	-1.559	-1.559	0	%100
35	M32	X	-.675	-.675	0	%100
36	M32	Z	-.39	-.39	0	%100
37	M36	X	-2.661	-2.661	0	%100
38	M36	Z	-1.536	-1.536	0	%100
39	M37	X	-3.598	-3.598	0	%100
40	M37	Z	-2.077	-2.077	0	%100
41	M39	X	-3.743	-3.743	0	%100
42	M39	Z	-2.161	-2.161	0	%100
43	M41	X	-2.661	-2.661	0	%100
44	M41	Z	-1.536	-1.536	0	%100
45	M42	X	-.899	-.899	0	%100
46	M42	Z	-.519	-.519	0	%100
47	M44	X	-.936	-.936	0	%100
48	M44	Z	-.54	-.54	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	-2.69	-2.69	0	%100
52	M50A	Z	-1.553	-1.553	0	%100
53	M51C	X	-2.69	-2.69	0	%100
54	M51C	Z	-1.553	-1.553	0	%100
55	M52A	X	-3.582	-3.582	0	%100
56	M52A	Z	-2.068	-2.068	0	%100
57	M55	X	-.675	-.675	0	%100
58	M55	Z	-.39	-.39	0	%100
59	M56	X	-.675	-.675	0	%100
60	M56	Z	-.39	-.39	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	-.899	-.899	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,%]
64	M61	Z	-.519	-.519	0	%100
65	M63	X	-.936	-.936	0	%100
66	M63	Z	-.54	-.54	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-.899	-.899	0	%100
70	M66	Z	-.519	-.519	0	%100
71	M68	X	-.936	-.936	0	%100
72	M68	Z	-.54	-.54	0	%100
73	M73	X	-.762	-.762	0	%100
74	M73	Z	-.44	-.44	0	%100
75	M74	X	-.762	-.762	0	%100
76	M74	Z	-.44	-.44	0	%100
77	M75	X	-3.047	-3.047	0	%100
78	M75	Z	-1.759	-1.759	0	%100
79	MP1A	X	-2.454	-2.454	0	%100
80	MP1A	Z	-1.417	-1.417	0	%100
81	MP2A	X	-2.678	-2.678	0	%100
82	MP2A	Z	-1.546	-1.546	0	%100
83	MP3A	X	-2.454	-2.454	0	%100
84	MP3A	Z	-1.417	-1.417	0	%100
85	MP4A	X	-2.454	-2.454	0	%100
86	MP4A	Z	-1.417	-1.417	0	%100
87	MP1C	X	-2.454	-2.454	0	%100
88	MP1C	Z	-1.417	-1.417	0	%100
89	MP2C	X	-2.678	-2.678	0	%100
90	MP2C	Z	-1.546	-1.546	0	%100
91	MP3C	X	-2.454	-2.454	0	%100
92	MP3C	Z	-1.417	-1.417	0	%100
93	MP4C	X	-2.454	-2.454	0	%100
94	MP4C	Z	-1.417	-1.417	0	%100
95	MP1B	X	-2.454	-2.454	0	%100
96	MP1B	Z	-1.417	-1.417	0	%100
97	MP2B	X	-2.678	-2.678	0	%100
98	MP2B	Z	-1.546	-1.546	0	%100
99	MP3B	X	-2.454	-2.454	0	%100
100	MP3B	Z	-1.417	-1.417	0	%100
101	MP4B	X	-2.454	-2.454	0	%100
102	MP4B	Z	-1.417	-1.417	0	%100
103	M101	X	-1.963	-1.963	0	%100
104	M101	Z	-1.133	-1.133	0	%100
105	M103	X	-2.161	-2.161	0	%100
106	M103	Z	-1.248	-1.248	0	%100
107	M104	X	-.692	-.692	0	%100
108	M104	Z	-.399	-.399	0	%100
109	M125	X	-.595	-.595	0	%100
110	M125	Z	-.344	-.344	0	%100
111	M126	X	-2.382	-2.382	0	%100
112	M126	Z	-1.375	-1.375	0	%100
113	M127	X	-.595	-.595	0	%100
114	M127	Z	-.344	-.344	0	%100
115	M128	X	-2.964	-2.964	0	%100
116	M128	Z	-1.711	-1.711	0	%100
117	M129	X	-2.964	-2.964	0	%100
118	M129	Z	-1.711	-1.711	0	%100
119	M130	X	-2.393	-2.393	0	%100
120	M130	Z	-1.381	-1.381	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,%]
121	M129A	X	-.692	-.692	0	%100
122	M129A	Z	-.399	-.399	0	%100
123	M130A	X	-2.768	-2.768	0	%100
124	M130A	Z	-1.598	-1.598	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.419	-.419	0	%100
2	M4	Z	-.725	-.725	0	%100
3	M10	X	-1.165	-1.165	0	%100
4	M10	Z	-2.018	-2.018	0	%100
5	M43	X	-1.165	-1.165	0	%100
6	M43	Z	-2.018	-2.018	0	%100
7	M46	X	-1.551	-1.551	0	%100
8	M46	Z	-2.686	-2.686	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-1.169	-1.169	0	%100
12	M52B	Z	-2.025	-2.025	0	%100
13	M76	X	-.512	-.512	0	%100
14	M76	Z	-.887	-.887	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-.512	-.512	0	%100
20	M84	Z	-.887	-.887	0	%100
21	M85	X	-1.558	-1.558	0	%100
22	M85	Z	-2.698	-2.698	0	%100
23	M91	X	-1.621	-1.621	0	%100
24	M91	Z	-2.807	-2.807	0	%100
25	M25	X	-1.675	-1.675	0	%100
26	M25	Z	-2.901	-2.901	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	-1.169	-1.169	0	%100
34	M31	Z	-2.025	-2.025	0	%100
35	M32	X	-1.169	-1.169	0	%100
36	M32	Z	-2.025	-2.025	0	%100
37	M36	X	-2.048	-2.048	0	%100
38	M36	Z	-3.548	-3.548	0	%100
39	M37	X	-1.558	-1.558	0	%100
40	M37	Z	-2.698	-2.698	0	%100
41	M39	X	-1.621	-1.621	0	%100
42	M39	Z	-2.807	-2.807	0	%100
43	M41	X	-2.048	-2.048	0	%100
44	M41	Z	-3.548	-3.548	0	%100
45	M42	X	-1.558	-1.558	0	%100
46	M42	Z	-2.698	-2.698	0	%100
47	M44	X	-1.621	-1.621	0	%100
48	M44	Z	-2.807	-2.807	0	%100
49	M49	X	-.419	-.419	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,%]
50	M49	Z	-.725	-.725	0	%100
51	M50A	X	-1.165	-1.165	0	%100
52	M50A	Z	-2.018	-2.018	0	%100
53	M51C	X	-1.165	-1.165	0	%100
54	M51C	Z	-2.018	-2.018	0	%100
55	M52A	X	-1.551	-1.551	0	%100
56	M52A	Z	-2.686	-2.686	0	%100
57	M55	X	-1.169	-1.169	0	%100
58	M55	Z	-2.025	-2.025	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	-.512	-.512	0	%100
62	M60	Z	-.887	-.887	0	%100
63	M61	X	-1.558	-1.558	0	%100
64	M61	Z	-2.698	-2.698	0	%100
65	M63	X	-1.621	-1.621	0	%100
66	M63	Z	-2.807	-2.807	0	%100
67	M65	X	-.512	-.512	0	%100
68	M65	Z	-.887	-.887	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	-1.319	-1.319	0	%100
74	M73	Z	-2.285	-2.285	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	-1.319	-1.319	0	%100
78	M75	Z	-2.285	-2.285	0	%100
79	MP1A	X	-1.417	-1.417	0	%100
80	MP1A	Z	-2.454	-2.454	0	%100
81	MP2A	X	-1.546	-1.546	0	%100
82	MP2A	Z	-2.678	-2.678	0	%100
83	MP3A	X	-1.417	-1.417	0	%100
84	MP3A	Z	-2.454	-2.454	0	%100
85	MP4A	X	-1.417	-1.417	0	%100
86	MP4A	Z	-2.454	-2.454	0	%100
87	MP1C	X	-1.417	-1.417	0	%100
88	MP1C	Z	-2.454	-2.454	0	%100
89	MP2C	X	-1.546	-1.546	0	%100
90	MP2C	Z	-2.678	-2.678	0	%100
91	MP3C	X	-1.417	-1.417	0	%100
92	MP3C	Z	-2.454	-2.454	0	%100
93	MP4C	X	-1.417	-1.417	0	%100
94	MP4C	Z	-2.454	-2.454	0	%100
95	MP1B	X	-1.417	-1.417	0	%100
96	MP1B	Z	-2.454	-2.454	0	%100
97	MP2B	X	-1.546	-1.546	0	%100
98	MP2B	Z	-2.678	-2.678	0	%100
99	MP3B	X	-1.417	-1.417	0	%100
100	MP3B	Z	-2.454	-2.454	0	%100
101	MP4B	X	-1.417	-1.417	0	%100
102	MP4B	Z	-2.454	-2.454	0	%100
103	M101	X	-1.133	-1.133	0	%100
104	M101	Z	-1.963	-1.963	0	%100
105	M103	X	-1.248	-1.248	0	%100
106	M103	Z	-2.161	-2.161	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,%]
107	M104	X	-1.198	-1.198	0	%100
108	M104	Z	-2.076	-2.076	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	-1.031	-1.031	0	%100
112	M126	Z	-1.786	-1.786	0	%100
113	M127	X	-1.031	-1.031	0	%100
114	M127	Z	-1.786	-1.786	0	%100
115	M128	X	-1.491	-1.491	0	%100
116	M128	Z	-2.583	-2.583	0	%100
117	M129	X	-1.821	-1.821	0	%100
118	M129	Z	-3.155	-3.155	0	%100
119	M130	X	-1.491	-1.491	0	%100
120	M130	Z	-2.583	-2.583	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	-1.198	-1.198	0	%100
124	M130A	Z	-2.076	-2.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	-.689	-.689	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	-.689	-.689	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	-1.116	-1.116	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	-.155	-.155	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	-.155	-.155	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	-.284	-.284	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-.299	-.299	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	-.284	-.284	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	-.299	-.299	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	-.496	-.496	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	-.172	-.172	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	-.172	-.172	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	-.279	-.279	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	-.155	-.155	0	%100
35	M32	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,%]
36	M32	Z	-.619	-.619	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	-.837	-.837	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	-.284	-.284	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-.299	-.299	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	-.837	-.837	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-1.136	-1.136	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	-1.197	-1.197	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	-.496	-.496	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	-.172	-.172	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	-.172	-.172	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	-.279	-.279	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	-.619	-.619	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	-.155	-.155	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	-.837	-.837	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	-1.136	-1.136	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-1.197	-1.197	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	-.837	-.837	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	-.284	-.284	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-.299	-.299	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-.651	-.651	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	-.163	-.163	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	-.163	-.163	0	%100
79	MP1A	X	0	0	0	%100
80	MP1A	Z	-.442	-.442	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	-.535	-.535	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	-.442	-.442	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	-.442	-.442	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	-.442	-.442	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	-.535	-.535	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-.442	-.442	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,%]
93	MP4C	X	0	0	0	%100
94	MP4C	Z	-.442	-.442	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-.442	-.442	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-.535	-.535	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-.442	-.442	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-.442	-.442	0	%100
103	M101	X	0	0	0	%100
104	M101	Z	-.361	-.361	0	%100
105	M103	X	0	0	0	%100
106	M103	Z	-.402	-.402	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	-.535	-.535	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	-.152	-.152	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	-.152	-.152	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	-.608	-.608	0	%100
115	M128	X	0	0	0	%100
116	M128	Z	-.742	-.742	0	%100
117	M129	X	0	0	0	%100
118	M129	Z	-.789	-.789	0	%100
119	M130	X	0	0	0	%100
120	M130	Z	-.789	-.789	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	-.134	-.134	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	-.134	-.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.083	.083	0	%100
2	M4	Z	-.143	-.143	0	%100
3	M10	X	.259	.259	0	%100
4	M10	Z	-.448	-.448	0	%100
5	M43	X	.259	.259	0	%100
6	M43	Z	-.448	-.448	0	%100
7	M46	X	.418	.418	0	%100
8	M46	Z	-.725	-.725	0	%100
9	M51B	X	.232	.232	0	%100
10	M51B	Z	-.402	-.402	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	.139	.139	0	%100
14	M76	Z	-.242	-.242	0	%100
15	M77	X	.426	.426	0	%100
16	M77	Z	-.738	-.738	0	%100
17	M80	X	.449	.449	0	%100
18	M80	Z	-.777	-.777	0	%100
19	M84	X	.139	.139	0	%100
20	M84	Z	-.242	-.242	0	%100
21	M85	X	0	0	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,%]
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	.083	.083	0	%100
26	M25	Z	-.143	-.143	0	%100
27	M26	X	.259	.259	0	%100
28	M26	Z	-.448	-.448	0	%100
29	M27	X	.259	.259	0	%100
30	M27	Z	-.448	-.448	0	%100
31	M28	X	.418	.418	0	%100
32	M28	Z	-.725	-.725	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	.232	.232	0	%100
36	M32	Z	-.402	-.402	0	%100
37	M36	X	.139	.139	0	%100
38	M36	Z	-.242	-.242	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	.139	.139	0	%100
44	M41	Z	-.242	-.242	0	%100
45	M42	X	.426	.426	0	%100
46	M42	Z	-.738	-.738	0	%100
47	M44	X	.449	.449	0	%100
48	M44	Z	-.777	-.777	0	%100
49	M49	X	.33	.33	0	%100
50	M49	Z	-.572	-.572	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	.232	.232	0	%100
58	M55	Z	-.402	-.402	0	%100
59	M56	X	.232	.232	0	%100
60	M56	Z	-.402	-.402	0	%100
61	M60	X	.558	.558	0	%100
62	M60	Z	-.966	-.966	0	%100
63	M61	X	.426	.426	0	%100
64	M61	Z	-.738	-.738	0	%100
65	M63	X	.449	.449	0	%100
66	M63	Z	-.777	-.777	0	%100
67	M65	X	.558	.558	0	%100
68	M65	Z	-.966	-.966	0	%100
69	M66	X	.426	.426	0	%100
70	M66	Z	-.738	-.738	0	%100
71	M68	X	.449	.449	0	%100
72	M68	Z	-.777	-.777	0	%100
73	M73	X	.244	.244	0	%100
74	M73	Z	-.423	-.423	0	%100
75	M74	X	.244	.244	0	%100
76	M74	Z	-.423	-.423	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	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,%]
79	MP1A	X	.221	.221	0	%100
80	MP1A	Z	-.382	-.382	0	%100
81	MP2A	X	.267	.267	0	%100
82	MP2A	Z	-.463	-.463	0	%100
83	MP3A	X	.221	.221	0	%100
84	MP3A	Z	-.382	-.382	0	%100
85	MP4A	X	.221	.221	0	%100
86	MP4A	Z	-.382	-.382	0	%100
87	MP1C	X	.221	.221	0	%100
88	MP1C	Z	-.382	-.382	0	%100
89	MP2C	X	.267	.267	0	%100
90	MP2C	Z	-.463	-.463	0	%100
91	MP3C	X	.221	.221	0	%100
92	MP3C	Z	-.382	-.382	0	%100
93	MP4C	X	.221	.221	0	%100
94	MP4C	Z	-.382	-.382	0	%100
95	MP1B	X	.221	.221	0	%100
96	MP1B	Z	-.382	-.382	0	%100
97	MP2B	X	.267	.267	0	%100
98	MP2B	Z	-.463	-.463	0	%100
99	MP3B	X	.221	.221	0	%100
100	MP3B	Z	-.382	-.382	0	%100
101	MP4B	X	.221	.221	0	%100
102	MP4B	Z	-.382	-.382	0	%100
103	M101	X	.181	.181	0	%100
104	M101	Z	-.313	-.313	0	%100
105	M103	X	.201	.201	0	%100
106	M103	Z	-.348	-.348	0	%100
107	M104	X	.2	.2	0	%100
108	M104	Z	-.347	-.347	0	%100
109	M125	X	.228	.228	0	%100
110	M125	Z	-.395	-.395	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	.228	.228	0	%100
114	M127	Z	-.395	-.395	0	%100
115	M128	X	.379	.379	0	%100
116	M128	Z	-.656	-.656	0	%100
117	M129	X	.379	.379	0	%100
118	M129	Z	-.656	-.656	0	%100
119	M130	X	.403	.403	0	%100
120	M130	Z	-.697	-.697	0	%100
121	M129A	X	.2	.2	0	%100
122	M129A	Z	-.347	-.347	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.429	.429	0	%100
2	M4	Z	-.248	-.248	0	%100
3	M10	X	.149	.149	0	%100
4	M10	Z	-.086	-.086	0	%100
5	M43	X	.149	.149	0	%100
6	M43	Z	-.086	-.086	0	%100
7	M46	X	.242	.242	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M46	Z	-.139	-.139	0	%100
9	M51B	X	.536	.536	0	%100
10	M51B	Z	-.31	-.31	0	%100
11	M52B	X	.134	.134	0	%100
12	M52B	Z	-.077	-.077	0	%100
13	M76	X	.725	.725	0	%100
14	M76	Z	-.418	-.418	0	%100
15	M77	X	.984	.984	0	%100
16	M77	Z	-.568	-.568	0	%100
17	M80	X	1.036	1.036	0	%100
18	M80	Z	-.598	-.598	0	%100
19	M84	X	.725	.725	0	%100
20	M84	Z	-.418	-.418	0	%100
21	M85	X	.246	.246	0	%100
22	M85	Z	-.142	-.142	0	%100
23	M91	X	.259	.259	0	%100
24	M91	Z	-.15	-.15	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	.597	.597	0	%100
28	M26	Z	-.345	-.345	0	%100
29	M27	X	.597	.597	0	%100
30	M27	Z	-.345	-.345	0	%100
31	M28	X	.966	.966	0	%100
32	M28	Z	-.558	-.558	0	%100
33	M31	X	.134	.134	0	%100
34	M31	Z	-.077	-.077	0	%100
35	M32	X	.134	.134	0	%100
36	M32	Z	-.077	-.077	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	.246	.246	0	%100
40	M37	Z	-.142	-.142	0	%100
41	M39	X	.259	.259	0	%100
42	M39	Z	-.15	-.15	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	.246	.246	0	%100
46	M42	Z	-.142	-.142	0	%100
47	M44	X	.259	.259	0	%100
48	M44	Z	-.15	-.15	0	%100
49	M49	X	.429	.429	0	%100
50	M49	Z	-.248	-.248	0	%100
51	M50A	X	.149	.149	0	%100
52	M50A	Z	-.086	-.086	0	%100
53	M51C	X	.149	.149	0	%100
54	M51C	Z	-.086	-.086	0	%100
55	M52A	X	.242	.242	0	%100
56	M52A	Z	-.139	-.139	0	%100
57	M55	X	.134	.134	0	%100
58	M55	Z	-.077	-.077	0	%100
59	M56	X	.536	.536	0	%100
60	M56	Z	-.31	-.31	0	%100
61	M60	X	.725	.725	0	%100
62	M60	Z	-.418	-.418	0	%100
63	M61	X	.246	.246	0	%100
64	M61	Z	-.142	-.142	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,%]
65	M63	X	.259	.259	0	%100
66	M63	Z	-.15	-.15	0	%100
67	M65	X	.725	.725	0	%100
68	M65	Z	-.418	-.418	0	%100
69	M66	X	.984	.984	0	%100
70	M66	Z	-.568	-.568	0	%100
71	M68	X	1.036	1.036	0	%100
72	M68	Z	-.598	-.598	0	%100
73	M73	X	.141	.141	0	%100
74	M73	Z	-.081	-.081	0	%100
75	M74	X	.564	.564	0	%100
76	M74	Z	-.325	-.325	0	%100
77	M75	X	.141	.141	0	%100
78	M75	Z	-.081	-.081	0	%100
79	MP1A	X	.382	.382	0	%100
80	MP1A	Z	-.221	-.221	0	%100
81	MP2A	X	.463	.463	0	%100
82	MP2A	Z	-.267	-.267	0	%100
83	MP3A	X	.382	.382	0	%100
84	MP3A	Z	-.221	-.221	0	%100
85	MP4A	X	.382	.382	0	%100
86	MP4A	Z	-.221	-.221	0	%100
87	MP1C	X	.382	.382	0	%100
88	MP1C	Z	-.221	-.221	0	%100
89	MP2C	X	.463	.463	0	%100
90	MP2C	Z	-.267	-.267	0	%100
91	MP3C	X	.382	.382	0	%100
92	MP3C	Z	-.221	-.221	0	%100
93	MP4C	X	.382	.382	0	%100
94	MP4C	Z	-.221	-.221	0	%100
95	MP1B	X	.382	.382	0	%100
96	MP1B	Z	-.221	-.221	0	%100
97	MP2B	X	.463	.463	0	%100
98	MP2B	Z	-.267	-.267	0	%100
99	MP3B	X	.382	.382	0	%100
100	MP3B	Z	-.221	-.221	0	%100
101	MP4B	X	.382	.382	0	%100
102	MP4B	Z	-.221	-.221	0	%100
103	M101	X	.313	.313	0	%100
104	M101	Z	-.181	-.181	0	%100
105	M103	X	.348	.348	0	%100
106	M103	Z	-.201	-.201	0	%100
107	M104	X	.116	.116	0	%100
108	M104	Z	-.067	-.067	0	%100
109	M125	X	.527	.527	0	%100
110	M125	Z	-.304	-.304	0	%100
111	M126	X	.132	.132	0	%100
112	M126	Z	-.076	-.076	0	%100
113	M127	X	.132	.132	0	%100
114	M127	Z	-.076	-.076	0	%100
115	M128	X	.684	.684	0	%100
116	M128	Z	-.395	-.395	0	%100
117	M129	X	.642	.642	0	%100
118	M129	Z	-.371	-.371	0	%100
119	M130	X	.684	.684	0	%100
120	M130	Z	-.395	-.395	0	%100
121	M129A	X	.463	.463	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,%]
122	M129A	Z	-.267	-.267	0	%100
123	M130A	X	.116	.116	0	%100
124	M130A	Z	-.067	-.067	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.661	.661	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	.465	.465	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	.465	.465	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	1.116	1.116	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	.852	.852	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	.898	.898	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	1.116	1.116	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	.852	.852	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	.898	.898	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	.165	.165	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	.517	.517	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	.517	.517	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	.837	.837	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	.465	.465	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M36	X	.279	.279	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	.852	.852	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	.898	.898	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	.279	.279	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M49	X	.165	.165	0	%100
50	M49	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
51	M50A	X	.517	.517	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	.517	.517	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	.837	.837	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	0	0	0	%100
59	M56	X	.465	.465	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	.279	.279	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M65	X	.279	.279	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	.852	.852	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	.898	.898	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	.488	.488	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	.488	.488	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	.442	.442	0	%100
80	MP1A	Z	0	0	0	%100
81	MP2A	X	.535	.535	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	.442	.442	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	.442	.442	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	.442	.442	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	.535	.535	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	.442	.442	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	.442	.442	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	.442	.442	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	.535	.535	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	.442	.442	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	.442	.442	0	%100
102	MP4B	Z	0	0	0	%100
103	M101	X	.361	.361	0	%100
104	M101	Z	0	0	0	%100
105	M103	X	.402	.402	0	%100
106	M103	Z	0	0	0	%100
107	M104	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
108	M104	Z	0	0	0	%100
109	M125	X	.456	.456	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	.456	.456	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	0	0	0	%100
115	M128	X	.805	.805	0	%100
116	M128	Z	0	0	0	%100
117	M129	X	.757	.757	0	%100
118	M129	Z	0	0	0	%100
119	M130	X	.757	.757	0	%100
120	M130	Z	0	0	0	%100
121	M129A	X	.401	.401	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	.401	.401	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.429	.429	0	%100
2	M4	Z	.248	.248	0	%100
3	M10	X	.149	.149	0	%100
4	M10	Z	.086	.086	0	%100
5	M43	X	.149	.149	0	%100
6	M43	Z	.086	.086	0	%100
7	M46	X	.242	.242	0	%100
8	M46	Z	.139	.139	0	%100
9	M51B	X	.134	.134	0	%100
10	M51B	Z	.077	.077	0	%100
11	M52B	X	.536	.536	0	%100
12	M52B	Z	.31	.31	0	%100
13	M76	X	.725	.725	0	%100
14	M76	Z	.418	.418	0	%100
15	M77	X	.246	.246	0	%100
16	M77	Z	.142	.142	0	%100
17	M80	X	.259	.259	0	%100
18	M80	Z	.15	.15	0	%100
19	M84	X	.725	.725	0	%100
20	M84	Z	.418	.418	0	%100
21	M85	X	.984	.984	0	%100
22	M85	Z	.568	.568	0	%100
23	M91	X	1.036	1.036	0	%100
24	M91	Z	.598	.598	0	%100
25	M25	X	.429	.429	0	%100
26	M25	Z	.248	.248	0	%100
27	M26	X	.149	.149	0	%100
28	M26	Z	.086	.086	0	%100
29	M27	X	.149	.149	0	%100
30	M27	Z	.086	.086	0	%100
31	M28	X	.242	.242	0	%100
32	M28	Z	.139	.139	0	%100
33	M31	X	.536	.536	0	%100
34	M31	Z	.31	.31	0	%100
35	M32	X	.134	.134	0	%100
36	M32	Z	.077	.077	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,%]
37	M36	X	.725	.725	0	%100
38	M36	Z	.418	.418	0	%100
39	M37	X	.984	.984	0	%100
40	M37	Z	.568	.568	0	%100
41	M39	X	1.036	1.036	0	%100
42	M39	Z	.598	.598	0	%100
43	M41	X	.725	.725	0	%100
44	M41	Z	.418	.418	0	%100
45	M42	X	.246	.246	0	%100
46	M42	Z	.142	.142	0	%100
47	M44	X	.259	.259	0	%100
48	M44	Z	.15	.15	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	.597	.597	0	%100
52	M50A	Z	.345	.345	0	%100
53	M51C	X	.597	.597	0	%100
54	M51C	Z	.345	.345	0	%100
55	M52A	X	.966	.966	0	%100
56	M52A	Z	.558	.558	0	%100
57	M55	X	.134	.134	0	%100
58	M55	Z	.077	.077	0	%100
59	M56	X	.134	.134	0	%100
60	M56	Z	.077	.077	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	.246	.246	0	%100
64	M61	Z	.142	.142	0	%100
65	M63	X	.259	.259	0	%100
66	M63	Z	.15	.15	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	.246	.246	0	%100
70	M66	Z	.142	.142	0	%100
71	M68	X	.259	.259	0	%100
72	M68	Z	.15	.15	0	%100
73	M73	X	.141	.141	0	%100
74	M73	Z	.081	.081	0	%100
75	M74	X	.141	.141	0	%100
76	M74	Z	.081	.081	0	%100
77	M75	X	.564	.564	0	%100
78	M75	Z	.325	.325	0	%100
79	MP1A	X	.382	.382	0	%100
80	MP1A	Z	.221	.221	0	%100
81	MP2A	X	.463	.463	0	%100
82	MP2A	Z	.267	.267	0	%100
83	MP3A	X	.382	.382	0	%100
84	MP3A	Z	.221	.221	0	%100
85	MP4A	X	.382	.382	0	%100
86	MP4A	Z	.221	.221	0	%100
87	MP1C	X	.382	.382	0	%100
88	MP1C	Z	.221	.221	0	%100
89	MP2C	X	.463	.463	0	%100
90	MP2C	Z	.267	.267	0	%100
91	MP3C	X	.382	.382	0	%100
92	MP3C	Z	.221	.221	0	%100
93	MP4C	X	.382	.382	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,%]
94	MP4C	Z	.221	.221	0	%100
95	MP1B	X	.382	.382	0	%100
96	MP1B	Z	.221	.221	0	%100
97	MP2B	X	.463	.463	0	%100
98	MP2B	Z	.267	.267	0	%100
99	MP3B	X	.382	.382	0	%100
100	MP3B	Z	.221	.221	0	%100
101	MP4B	X	.382	.382	0	%100
102	MP4B	Z	.221	.221	0	%100
103	M101	X	.313	.313	0	%100
104	M101	Z	.181	.181	0	%100
105	M103	X	.348	.348	0	%100
106	M103	Z	.201	.201	0	%100
107	M104	X	.116	.116	0	%100
108	M104	Z	.067	.067	0	%100
109	M125	X	.132	.132	0	%100
110	M125	Z	.076	.076	0	%100
111	M126	X	.527	.527	0	%100
112	M126	Z	.304	.304	0	%100
113	M127	X	.132	.132	0	%100
114	M127	Z	.076	.076	0	%100
115	M128	X	.684	.684	0	%100
116	M128	Z	.395	.395	0	%100
117	M129	X	.684	.684	0	%100
118	M129	Z	.395	.395	0	%100
119	M130	X	.642	.642	0	%100
120	M130	Z	.371	.371	0	%100
121	M129A	X	.116	.116	0	%100
122	M129A	Z	.067	.067	0	%100
123	M130A	X	.463	.463	0	%100
124	M130A	Z	.267	.267	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.083	.083	0	%100
2	M4	Z	.143	.143	0	%100
3	M10	X	.259	.259	0	%100
4	M10	Z	.448	.448	0	%100
5	M43	X	.259	.259	0	%100
6	M43	Z	.448	.448	0	%100
7	M46	X	.418	.418	0	%100
8	M46	Z	.725	.725	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	.232	.232	0	%100
12	M52B	Z	.402	.402	0	%100
13	M76	X	.139	.139	0	%100
14	M76	Z	.242	.242	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	.139	.139	0	%100
20	M84	Z	.242	.242	0	%100
21	M85	X	.426	.426	0	%100
22	M85	Z	.738	.738	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,%]
23	M91	X	.449	.449	0	%100
24	M91	Z	.777	.777	0	%100
25	M25	X	.33	.33	0	%100
26	M25	Z	.572	.572	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	.232	.232	0	%100
34	M31	Z	.402	.402	0	%100
35	M32	X	.232	.232	0	%100
36	M32	Z	.402	.402	0	%100
37	M36	X	.558	.558	0	%100
38	M36	Z	.966	.966	0	%100
39	M37	X	.426	.426	0	%100
40	M37	Z	.738	.738	0	%100
41	M39	X	.449	.449	0	%100
42	M39	Z	.777	.777	0	%100
43	M41	X	.558	.558	0	%100
44	M41	Z	.966	.966	0	%100
45	M42	X	.426	.426	0	%100
46	M42	Z	.738	.738	0	%100
47	M44	X	.449	.449	0	%100
48	M44	Z	.777	.777	0	%100
49	M49	X	.083	.083	0	%100
50	M49	Z	.143	.143	0	%100
51	M50A	X	.259	.259	0	%100
52	M50A	Z	.448	.448	0	%100
53	M51C	X	.259	.259	0	%100
54	M51C	Z	.448	.448	0	%100
55	M52A	X	.418	.418	0	%100
56	M52A	Z	.725	.725	0	%100
57	M55	X	.232	.232	0	%100
58	M55	Z	.402	.402	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	.139	.139	0	%100
62	M60	Z	.242	.242	0	%100
63	M61	X	.426	.426	0	%100
64	M61	Z	.738	.738	0	%100
65	M63	X	.449	.449	0	%100
66	M63	Z	.777	.777	0	%100
67	M65	X	.139	.139	0	%100
68	M65	Z	.242	.242	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	.244	.244	0	%100
74	M73	Z	.423	.423	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	.244	.244	0	%100
78	M75	Z	.423	.423	0	%100
79	MP1A	X	.221	.221	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,%]
80	MP1A	Z	.382	.382	0	%100
81	MP2A	X	.267	.267	0	%100
82	MP2A	Z	.463	.463	0	%100
83	MP3A	X	.221	.221	0	%100
84	MP3A	Z	.382	.382	0	%100
85	MP4A	X	.221	.221	0	%100
86	MP4A	Z	.382	.382	0	%100
87	MP1C	X	.221	.221	0	%100
88	MP1C	Z	.382	.382	0	%100
89	MP2C	X	.267	.267	0	%100
90	MP2C	Z	.463	.463	0	%100
91	MP3C	X	.221	.221	0	%100
92	MP3C	Z	.382	.382	0	%100
93	MP4C	X	.221	.221	0	%100
94	MP4C	Z	.382	.382	0	%100
95	MP1B	X	.221	.221	0	%100
96	MP1B	Z	.382	.382	0	%100
97	MP2B	X	.267	.267	0	%100
98	MP2B	Z	.463	.463	0	%100
99	MP3B	X	.221	.221	0	%100
100	MP3B	Z	.382	.382	0	%100
101	MP4B	X	.221	.221	0	%100
102	MP4B	Z	.382	.382	0	%100
103	M101	X	.181	.181	0	%100
104	M101	Z	.313	.313	0	%100
105	M103	X	.201	.201	0	%100
106	M103	Z	.348	.348	0	%100
107	M104	X	.2	.2	0	%100
108	M104	Z	.347	.347	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	.228	.228	0	%100
112	M126	Z	.395	.395	0	%100
113	M127	X	.228	.228	0	%100
114	M127	Z	.395	.395	0	%100
115	M128	X	.379	.379	0	%100
116	M128	Z	.656	.656	0	%100
117	M129	X	.403	.403	0	%100
118	M129	Z	.697	.697	0	%100
119	M130	X	.379	.379	0	%100
120	M130	Z	.656	.656	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	.2	.2	0	%100
124	M130A	Z	.347	.347	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	.689	.689	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	.689	.689	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	1.116	1.116	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,%]
9	M51B	X	0	0	0	%100
10	M51B	Z	.155	.155	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	.155	.155	0	%100
13	M76	X	0	0	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	.284	.284	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	.299	.299	0	%100
19	M84	X	0	0	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	.284	.284	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	.299	.299	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	.496	.496	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	.172	.172	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	.172	.172	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	.279	.279	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	.155	.155	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	.619	.619	0	%100
37	M36	X	0	0	0	%100
38	M36	Z	.837	.837	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	.284	.284	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	.299	.299	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	.837	.837	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	1.136	1.136	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	1.197	1.197	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	.496	.496	0	%100
51	M50A	X	0	0	0	%100
52	M50A	Z	.172	.172	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	.172	.172	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	.279	.279	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	.619	.619	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	.155	.155	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	.837	.837	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	1.136	1.136	0	%100
65	M63	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
66	M63	Z	1.197	1.197	0	%100
67	M65	X	0	0	0	%100
68	M65	Z	.837	.837	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	.284	.284	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	.299	.299	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	.651	.651	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	.163	.163	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	.163	.163	0	%100
79	MP1A	X	0	0	0	%100
80	MP1A	Z	.442	.442	0	%100
81	MP2A	X	0	0	0	%100
82	MP2A	Z	.535	.535	0	%100
83	MP3A	X	0	0	0	%100
84	MP3A	Z	.442	.442	0	%100
85	MP4A	X	0	0	0	%100
86	MP4A	Z	.442	.442	0	%100
87	MP1C	X	0	0	0	%100
88	MP1C	Z	.442	.442	0	%100
89	MP2C	X	0	0	0	%100
90	MP2C	Z	.535	.535	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	.442	.442	0	%100
93	MP4C	X	0	0	0	%100
94	MP4C	Z	.442	.442	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	.442	.442	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	.535	.535	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	.442	.442	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	.442	.442	0	%100
103	M101	X	0	0	0	%100
104	M101	Z	.361	.361	0	%100
105	M103	X	0	0	0	%100
106	M103	Z	.402	.402	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	.535	.535	0	%100
109	M125	X	0	0	0	%100
110	M125	Z	.152	.152	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	.152	.152	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	.608	.608	0	%100
115	M128	X	0	0	0	%100
116	M128	Z	.742	.742	0	%100
117	M129	X	0	0	0	%100
118	M129	Z	.789	.789	0	%100
119	M130	X	0	0	0	%100
120	M130	Z	.789	.789	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	.134	.134	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,%]
123	M130A	X	0	0	0	%100
124	M130A	Z	.134	.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.083	-.083	0	%100
2	M4	Z	.143	.143	0	%100
3	M10	X	-.259	-.259	0	%100
4	M10	Z	.448	.448	0	%100
5	M43	X	-.259	-.259	0	%100
6	M43	Z	.448	.448	0	%100
7	M46	X	-.418	-.418	0	%100
8	M46	Z	.725	.725	0	%100
9	M51B	X	-.232	-.232	0	%100
10	M51B	Z	.402	.402	0	%100
11	M52B	X	0	0	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-.139	-.139	0	%100
14	M76	Z	.242	.242	0	%100
15	M77	X	-.426	-.426	0	%100
16	M77	Z	.738	.738	0	%100
17	M80	X	-.449	-.449	0	%100
18	M80	Z	.777	.777	0	%100
19	M84	X	-.139	-.139	0	%100
20	M84	Z	.242	.242	0	%100
21	M85	X	0	0	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	0	0	0	%100
24	M91	Z	0	0	0	%100
25	M25	X	-.083	-.083	0	%100
26	M25	Z	.143	.143	0	%100
27	M26	X	-.259	-.259	0	%100
28	M26	Z	.448	.448	0	%100
29	M27	X	-.259	-.259	0	%100
30	M27	Z	.448	.448	0	%100
31	M28	X	-.418	-.418	0	%100
32	M28	Z	.725	.725	0	%100
33	M31	X	0	0	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	-.232	-.232	0	%100
36	M32	Z	.402	.402	0	%100
37	M36	X	-.139	-.139	0	%100
38	M36	Z	.242	.242	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	-.139	-.139	0	%100
44	M41	Z	.242	.242	0	%100
45	M42	X	-.426	-.426	0	%100
46	M42	Z	.738	.738	0	%100
47	M44	X	-.449	-.449	0	%100
48	M44	Z	.777	.777	0	%100
49	M49	X	-.33	-.33	0	%100
50	M49	Z	.572	.572	0	%100
51	M50A	X	0	0	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,%]
52	M50A	Z	0	0	0	%100
53	M51C	X	0	0	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	0	0	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	-.232	-.232	0	%100
58	M55	Z	.402	.402	0	%100
59	M56	X	-.232	-.232	0	%100
60	M56	Z	.402	.402	0	%100
61	M60	X	-.558	-.558	0	%100
62	M60	Z	.966	.966	0	%100
63	M61	X	-.426	-.426	0	%100
64	M61	Z	.738	.738	0	%100
65	M63	X	-.449	-.449	0	%100
66	M63	Z	.777	.777	0	%100
67	M65	X	-.558	-.558	0	%100
68	M65	Z	.966	.966	0	%100
69	M66	X	-.426	-.426	0	%100
70	M66	Z	.738	.738	0	%100
71	M68	X	-.449	-.449	0	%100
72	M68	Z	.777	.777	0	%100
73	M73	X	-.244	-.244	0	%100
74	M73	Z	.423	.423	0	%100
75	M74	X	-.244	-.244	0	%100
76	M74	Z	.423	.423	0	%100
77	M75	X	0	0	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	-.221	-.221	0	%100
80	MP1A	Z	.382	.382	0	%100
81	MP2A	X	-.267	-.267	0	%100
82	MP2A	Z	.463	.463	0	%100
83	MP3A	X	-.221	-.221	0	%100
84	MP3A	Z	.382	.382	0	%100
85	MP4A	X	-.221	-.221	0	%100
86	MP4A	Z	.382	.382	0	%100
87	MP1C	X	-.221	-.221	0	%100
88	MP1C	Z	.382	.382	0	%100
89	MP2C	X	-.267	-.267	0	%100
90	MP2C	Z	.463	.463	0	%100
91	MP3C	X	-.221	-.221	0	%100
92	MP3C	Z	.382	.382	0	%100
93	MP4C	X	-.221	-.221	0	%100
94	MP4C	Z	.382	.382	0	%100
95	MP1B	X	-.221	-.221	0	%100
96	MP1B	Z	.382	.382	0	%100
97	MP2B	X	-.267	-.267	0	%100
98	MP2B	Z	.463	.463	0	%100
99	MP3B	X	-.221	-.221	0	%100
100	MP3B	Z	.382	.382	0	%100
101	MP4B	X	-.221	-.221	0	%100
102	MP4B	Z	.382	.382	0	%100
103	M101	X	-.181	-.181	0	%100
104	M101	Z	.313	.313	0	%100
105	M103	X	-.201	-.201	0	%100
106	M103	Z	.348	.348	0	%100
107	M104	X	-.2	-.2	0	%100
108	M104	Z	.347	.347	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,%]
109	M125	X	-.228	-.228	0	%100
110	M125	Z	.395	.395	0	%100
111	M126	X	0	0	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	-.228	-.228	0	%100
114	M127	Z	.395	.395	0	%100
115	M128	X	-.379	-.379	0	%100
116	M128	Z	.656	.656	0	%100
117	M129	X	-.379	-.379	0	%100
118	M129	Z	.656	.656	0	%100
119	M130	X	-.403	-.403	0	%100
120	M130	Z	.697	.697	0	%100
121	M129A	X	-.2	-.2	0	%100
122	M129A	Z	.347	.347	0	%100
123	M130A	X	0	0	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.429	-.429	0	%100
2	M4	Z	.248	.248	0	%100
3	M10	X	-.149	-.149	0	%100
4	M10	Z	.086	.086	0	%100
5	M43	X	-.149	-.149	0	%100
6	M43	Z	.086	.086	0	%100
7	M46	X	-.242	-.242	0	%100
8	M46	Z	.139	.139	0	%100
9	M51B	X	-.536	-.536	0	%100
10	M51B	Z	.31	.31	0	%100
11	M52B	X	-.134	-.134	0	%100
12	M52B	Z	.077	.077	0	%100
13	M76	X	-.725	-.725	0	%100
14	M76	Z	.418	.418	0	%100
15	M77	X	-.984	-.984	0	%100
16	M77	Z	.568	.568	0	%100
17	M80	X	-1.036	-1.036	0	%100
18	M80	Z	.598	.598	0	%100
19	M84	X	-.725	-.725	0	%100
20	M84	Z	.418	.418	0	%100
21	M85	X	-.246	-.246	0	%100
22	M85	Z	.142	.142	0	%100
23	M91	X	-.259	-.259	0	%100
24	M91	Z	.15	.15	0	%100
25	M25	X	0	0	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-.597	-.597	0	%100
28	M26	Z	.345	.345	0	%100
29	M27	X	-.597	-.597	0	%100
30	M27	Z	.345	.345	0	%100
31	M28	X	-.966	-.966	0	%100
32	M28	Z	.558	.558	0	%100
33	M31	X	-.134	-.134	0	%100
34	M31	Z	.077	.077	0	%100
35	M32	X	-.134	-.134	0	%100
36	M32	Z	.077	.077	0	%100
37	M36	X	0	0	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,%]
38	M36	Z	0	0	0	%100
39	M37	X	-.246	-.246	0	%100
40	M37	Z	.142	.142	0	%100
41	M39	X	-.259	-.259	0	%100
42	M39	Z	.15	.15	0	%100
43	M41	X	0	0	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	-.246	-.246	0	%100
46	M42	Z	.142	.142	0	%100
47	M44	X	-.259	-.259	0	%100
48	M44	Z	.15	.15	0	%100
49	M49	X	-.429	-.429	0	%100
50	M49	Z	.248	.248	0	%100
51	M50A	X	-.149	-.149	0	%100
52	M50A	Z	.086	.086	0	%100
53	M51C	X	-.149	-.149	0	%100
54	M51C	Z	.086	.086	0	%100
55	M52A	X	-.242	-.242	0	%100
56	M52A	Z	.139	.139	0	%100
57	M55	X	-.134	-.134	0	%100
58	M55	Z	.077	.077	0	%100
59	M56	X	-.536	-.536	0	%100
60	M56	Z	.31	.31	0	%100
61	M60	X	-.725	-.725	0	%100
62	M60	Z	.418	.418	0	%100
63	M61	X	-.246	-.246	0	%100
64	M61	Z	.142	.142	0	%100
65	M63	X	-.259	-.259	0	%100
66	M63	Z	.15	.15	0	%100
67	M65	X	-.725	-.725	0	%100
68	M65	Z	.418	.418	0	%100
69	M66	X	-.984	-.984	0	%100
70	M66	Z	.568	.568	0	%100
71	M68	X	-1.036	-1.036	0	%100
72	M68	Z	.598	.598	0	%100
73	M73	X	-.141	-.141	0	%100
74	M73	Z	.081	.081	0	%100
75	M74	X	-.564	-.564	0	%100
76	M74	Z	.325	.325	0	%100
77	M75	X	-.141	-.141	0	%100
78	M75	Z	.081	.081	0	%100
79	MP1A	X	-.382	-.382	0	%100
80	MP1A	Z	.221	.221	0	%100
81	MP2A	X	-.463	-.463	0	%100
82	MP2A	Z	.267	.267	0	%100
83	MP3A	X	-.382	-.382	0	%100
84	MP3A	Z	.221	.221	0	%100
85	MP4A	X	-.382	-.382	0	%100
86	MP4A	Z	.221	.221	0	%100
87	MP1C	X	-.382	-.382	0	%100
88	MP1C	Z	.221	.221	0	%100
89	MP2C	X	-.463	-.463	0	%100
90	MP2C	Z	.267	.267	0	%100
91	MP3C	X	-.382	-.382	0	%100
92	MP3C	Z	.221	.221	0	%100
93	MP4C	X	-.382	-.382	0	%100
94	MP4C	Z	.221	.221	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,%]
95	MP1B	X	-.382	-.382	0	%100
96	MP1B	Z	.221	.221	0	%100
97	MP2B	X	-.463	-.463	0	%100
98	MP2B	Z	.267	.267	0	%100
99	MP3B	X	-.382	-.382	0	%100
100	MP3B	Z	.221	.221	0	%100
101	MP4B	X	-.382	-.382	0	%100
102	MP4B	Z	.221	.221	0	%100
103	M101	X	-.313	-.313	0	%100
104	M101	Z	.181	.181	0	%100
105	M103	X	-.348	-.348	0	%100
106	M103	Z	.201	.201	0	%100
107	M104	X	-.116	-.116	0	%100
108	M104	Z	.067	.067	0	%100
109	M125	X	-.527	-.527	0	%100
110	M125	Z	.304	.304	0	%100
111	M126	X	-.132	-.132	0	%100
112	M126	Z	.076	.076	0	%100
113	M127	X	-.132	-.132	0	%100
114	M127	Z	.076	.076	0	%100
115	M128	X	-.684	-.684	0	%100
116	M128	Z	.395	.395	0	%100
117	M129	X	-.642	-.642	0	%100
118	M129	Z	.371	.371	0	%100
119	M130	X	-.684	-.684	0	%100
120	M130	Z	.395	.395	0	%100
121	M129A	X	-.463	-.463	0	%100
122	M129A	Z	.267	.267	0	%100
123	M130A	X	-.116	-.116	0	%100
124	M130A	Z	.067	.067	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.661	-.661	0	%100
2	M4	Z	0	0	0	%100
3	M10	X	0	0	0	%100
4	M10	Z	0	0	0	%100
5	M43	X	0	0	0	%100
6	M43	Z	0	0	0	%100
7	M46	X	0	0	0	%100
8	M46	Z	0	0	0	%100
9	M51B	X	-.465	-.465	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-.465	-.465	0	%100
12	M52B	Z	0	0	0	%100
13	M76	X	-1.116	-1.116	0	%100
14	M76	Z	0	0	0	%100
15	M77	X	-.852	-.852	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	-.898	-.898	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-1.116	-1.116	0	%100
20	M84	Z	0	0	0	%100
21	M85	X	-.852	-.852	0	%100
22	M85	Z	0	0	0	%100
23	M91	X	-.898	-.898	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,%]
24	M91	Z	0	0	0	%100
25	M25	X	-.165	-.165	0	%100
26	M25	Z	0	0	0	%100
27	M26	X	-.517	-.517	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	-.517	-.517	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	-.837	-.837	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	-.465	-.465	0	%100
34	M31	Z	0	0	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M36	X	-.279	-.279	0	%100
38	M36	Z	0	0	0	%100
39	M37	X	-.852	-.852	0	%100
40	M37	Z	0	0	0	%100
41	M39	X	-.898	-.898	0	%100
42	M39	Z	0	0	0	%100
43	M41	X	-.279	-.279	0	%100
44	M41	Z	0	0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M44	X	0	0	0	%100
48	M44	Z	0	0	0	%100
49	M49	X	-.165	-.165	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	-.517	-.517	0	%100
52	M50A	Z	0	0	0	%100
53	M51C	X	-.517	-.517	0	%100
54	M51C	Z	0	0	0	%100
55	M52A	X	-.837	-.837	0	%100
56	M52A	Z	0	0	0	%100
57	M55	X	0	0	0	%100
58	M55	Z	0	0	0	%100
59	M56	X	-.465	-.465	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	-.279	-.279	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M65	X	-.279	-.279	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-.852	-.852	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	-.898	-.898	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	-.488	-.488	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	-.488	-.488	0	%100
78	M75	Z	0	0	0	%100
79	MP1A	X	-.442	-.442	0	%100
80	MP1A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
81	MP2A	X	-.535	-.535	0	%100
82	MP2A	Z	0	0	0	%100
83	MP3A	X	-.442	-.442	0	%100
84	MP3A	Z	0	0	0	%100
85	MP4A	X	-.442	-.442	0	%100
86	MP4A	Z	0	0	0	%100
87	MP1C	X	-.442	-.442	0	%100
88	MP1C	Z	0	0	0	%100
89	MP2C	X	-.535	-.535	0	%100
90	MP2C	Z	0	0	0	%100
91	MP3C	X	-.442	-.442	0	%100
92	MP3C	Z	0	0	0	%100
93	MP4C	X	-.442	-.442	0	%100
94	MP4C	Z	0	0	0	%100
95	MP1B	X	-.442	-.442	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-.535	-.535	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-.442	-.442	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-.442	-.442	0	%100
102	MP4B	Z	0	0	0	%100
103	M101	X	-.361	-.361	0	%100
104	M101	Z	0	0	0	%100
105	M103	X	-.402	-.402	0	%100
106	M103	Z	0	0	0	%100
107	M104	X	0	0	0	%100
108	M104	Z	0	0	0	%100
109	M125	X	-.456	-.456	0	%100
110	M125	Z	0	0	0	%100
111	M126	X	-.456	-.456	0	%100
112	M126	Z	0	0	0	%100
113	M127	X	0	0	0	%100
114	M127	Z	0	0	0	%100
115	M128	X	-.805	-.805	0	%100
116	M128	Z	0	0	0	%100
117	M129	X	-.757	-.757	0	%100
118	M129	Z	0	0	0	%100
119	M130	X	-.757	-.757	0	%100
120	M130	Z	0	0	0	%100
121	M129A	X	-.401	-.401	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	-.401	-.401	0	%100
124	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.429	-.429	0	%100
2	M4	Z	-.248	-.248	0	%100
3	M10	X	-.149	-.149	0	%100
4	M10	Z	-.086	-.086	0	%100
5	M43	X	-.149	-.149	0	%100
6	M43	Z	-.086	-.086	0	%100
7	M46	X	-.242	-.242	0	%100
8	M46	Z	-.139	-.139	0	%100
9	M51B	X	-.134	-.134	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,%]
10	M51B	Z	-.077	-.077	0	%100
11	M52B	X	-.536	-.536	0	%100
12	M52B	Z	-.31	-.31	0	%100
13	M76	X	-.725	-.725	0	%100
14	M76	Z	-.418	-.418	0	%100
15	M77	X	-.246	-.246	0	%100
16	M77	Z	-.142	-.142	0	%100
17	M80	X	-.259	-.259	0	%100
18	M80	Z	-.15	-.15	0	%100
19	M84	X	-.725	-.725	0	%100
20	M84	Z	-.418	-.418	0	%100
21	M85	X	-.984	-.984	0	%100
22	M85	Z	-.568	-.568	0	%100
23	M91	X	-1.036	-1.036	0	%100
24	M91	Z	-.598	-.598	0	%100
25	M25	X	-.429	-.429	0	%100
26	M25	Z	-.248	-.248	0	%100
27	M26	X	-.149	-.149	0	%100
28	M26	Z	-.086	-.086	0	%100
29	M27	X	-.149	-.149	0	%100
30	M27	Z	-.086	-.086	0	%100
31	M28	X	-.242	-.242	0	%100
32	M28	Z	-.139	-.139	0	%100
33	M31	X	-.536	-.536	0	%100
34	M31	Z	-.31	-.31	0	%100
35	M32	X	-.134	-.134	0	%100
36	M32	Z	-.077	-.077	0	%100
37	M36	X	-.725	-.725	0	%100
38	M36	Z	-.418	-.418	0	%100
39	M37	X	-.984	-.984	0	%100
40	M37	Z	-.568	-.568	0	%100
41	M39	X	-1.036	-1.036	0	%100
42	M39	Z	-.598	-.598	0	%100
43	M41	X	-.725	-.725	0	%100
44	M41	Z	-.418	-.418	0	%100
45	M42	X	-.246	-.246	0	%100
46	M42	Z	-.142	-.142	0	%100
47	M44	X	-.259	-.259	0	%100
48	M44	Z	-.15	-.15	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M50A	X	-.597	-.597	0	%100
52	M50A	Z	-.345	-.345	0	%100
53	M51C	X	-.597	-.597	0	%100
54	M51C	Z	-.345	-.345	0	%100
55	M52A	X	-.966	-.966	0	%100
56	M52A	Z	-.558	-.558	0	%100
57	M55	X	-.134	-.134	0	%100
58	M55	Z	-.077	-.077	0	%100
59	M56	X	-.134	-.134	0	%100
60	M56	Z	-.077	-.077	0	%100
61	M60	X	0	0	0	%100
62	M60	Z	0	0	0	%100
63	M61	X	-.246	-.246	0	%100
64	M61	Z	-.142	-.142	0	%100
65	M63	X	-.259	-.259	0	%100
66	M63	Z	-.15	-.15	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,%]
67	M65	X	0	0	0	%100
68	M65	Z	0	0	0	%100
69	M66	X	-.246	-.246	0	%100
70	M66	Z	-.142	-.142	0	%100
71	M68	X	-.259	-.259	0	%100
72	M68	Z	-.15	-.15	0	%100
73	M73	X	-.141	-.141	0	%100
74	M73	Z	-.081	-.081	0	%100
75	M74	X	-.141	-.141	0	%100
76	M74	Z	-.081	-.081	0	%100
77	M75	X	-.564	-.564	0	%100
78	M75	Z	-.325	-.325	0	%100
79	MP1A	X	-.382	-.382	0	%100
80	MP1A	Z	-.221	-.221	0	%100
81	MP2A	X	-.463	-.463	0	%100
82	MP2A	Z	-.267	-.267	0	%100
83	MP3A	X	-.382	-.382	0	%100
84	MP3A	Z	-.221	-.221	0	%100
85	MP4A	X	-.382	-.382	0	%100
86	MP4A	Z	-.221	-.221	0	%100
87	MP1C	X	-.382	-.382	0	%100
88	MP1C	Z	-.221	-.221	0	%100
89	MP2C	X	-.463	-.463	0	%100
90	MP2C	Z	-.267	-.267	0	%100
91	MP3C	X	-.382	-.382	0	%100
92	MP3C	Z	-.221	-.221	0	%100
93	MP4C	X	-.382	-.382	0	%100
94	MP4C	Z	-.221	-.221	0	%100
95	MP1B	X	-.382	-.382	0	%100
96	MP1B	Z	-.221	-.221	0	%100
97	MP2B	X	-.463	-.463	0	%100
98	MP2B	Z	-.267	-.267	0	%100
99	MP3B	X	-.382	-.382	0	%100
100	MP3B	Z	-.221	-.221	0	%100
101	MP4B	X	-.382	-.382	0	%100
102	MP4B	Z	-.221	-.221	0	%100
103	M101	X	-.313	-.313	0	%100
104	M101	Z	-.181	-.181	0	%100
105	M103	X	-.348	-.348	0	%100
106	M103	Z	-.201	-.201	0	%100
107	M104	X	-.116	-.116	0	%100
108	M104	Z	-.067	-.067	0	%100
109	M125	X	-.132	-.132	0	%100
110	M125	Z	-.076	-.076	0	%100
111	M126	X	-.527	-.527	0	%100
112	M126	Z	-.304	-.304	0	%100
113	M127	X	-.132	-.132	0	%100
114	M127	Z	-.076	-.076	0	%100
115	M128	X	-.684	-.684	0	%100
116	M128	Z	-.395	-.395	0	%100
117	M129	X	-.684	-.684	0	%100
118	M129	Z	-.395	-.395	0	%100
119	M130	X	-.642	-.642	0	%100
120	M130	Z	-.371	-.371	0	%100
121	M129A	X	-.116	-.116	0	%100
122	M129A	Z	-.067	-.067	0	%100
123	M130A	X	-.463	-.463	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,%]
124	M130A	Z	-.267	-.267	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.083	-.083	0	%100
2	M4	Z	-.143	-.143	0	%100
3	M10	X	-.259	-.259	0	%100
4	M10	Z	-.448	-.448	0	%100
5	M43	X	-.259	-.259	0	%100
6	M43	Z	-.448	-.448	0	%100
7	M46	X	-.418	-.418	0	%100
8	M46	Z	-.725	-.725	0	%100
9	M51B	X	0	0	0	%100
10	M51B	Z	0	0	0	%100
11	M52B	X	-.232	-.232	0	%100
12	M52B	Z	-.402	-.402	0	%100
13	M76	X	-.139	-.139	0	%100
14	M76	Z	-.242	-.242	0	%100
15	M77	X	0	0	0	%100
16	M77	Z	0	0	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M84	X	-.139	-.139	0	%100
20	M84	Z	-.242	-.242	0	%100
21	M85	X	-.426	-.426	0	%100
22	M85	Z	-.738	-.738	0	%100
23	M91	X	-.449	-.449	0	%100
24	M91	Z	-.777	-.777	0	%100
25	M25	X	-.33	-.33	0	%100
26	M25	Z	-.572	-.572	0	%100
27	M26	X	0	0	0	%100
28	M26	Z	0	0	0	%100
29	M27	X	0	0	0	%100
30	M27	Z	0	0	0	%100
31	M28	X	0	0	0	%100
32	M28	Z	0	0	0	%100
33	M31	X	-.232	-.232	0	%100
34	M31	Z	-.402	-.402	0	%100
35	M32	X	-.232	-.232	0	%100
36	M32	Z	-.402	-.402	0	%100
37	M36	X	-.558	-.558	0	%100
38	M36	Z	-.966	-.966	0	%100
39	M37	X	-.426	-.426	0	%100
40	M37	Z	-.738	-.738	0	%100
41	M39	X	-.449	-.449	0	%100
42	M39	Z	-.777	-.777	0	%100
43	M41	X	-.558	-.558	0	%100
44	M41	Z	-.966	-.966	0	%100
45	M42	X	-.426	-.426	0	%100
46	M42	Z	-.738	-.738	0	%100
47	M44	X	-.449	-.449	0	%100
48	M44	Z	-.777	-.777	0	%100
49	M49	X	-.083	-.083	0	%100
50	M49	Z	-.143	-.143	0	%100
51	M50A	X	-.259	-.259	0	%100
52	M50A	Z	-.448	-.448	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,%]
53	M51C	X	-.259	-.259	0	%100
54	M51C	Z	-.448	-.448	0	%100
55	M52A	X	-.418	-.418	0	%100
56	M52A	Z	-.725	-.725	0	%100
57	M55	X	-.232	-.232	0	%100
58	M55	Z	-.402	-.402	0	%100
59	M56	X	0	0	0	%100
60	M56	Z	0	0	0	%100
61	M60	X	-.139	-.139	0	%100
62	M60	Z	-.242	-.242	0	%100
63	M61	X	-.426	-.426	0	%100
64	M61	Z	-.738	-.738	0	%100
65	M63	X	-.449	-.449	0	%100
66	M63	Z	-.777	-.777	0	%100
67	M65	X	-.139	-.139	0	%100
68	M65	Z	-.242	-.242	0	%100
69	M66	X	0	0	0	%100
70	M66	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100
73	M73	X	-.244	-.244	0	%100
74	M73	Z	-.423	-.423	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M75	X	-.244	-.244	0	%100
78	M75	Z	-.423	-.423	0	%100
79	MP1A	X	-.221	-.221	0	%100
80	MP1A	Z	-.382	-.382	0	%100
81	MP2A	X	-.267	-.267	0	%100
82	MP2A	Z	-.463	-.463	0	%100
83	MP3A	X	-.221	-.221	0	%100
84	MP3A	Z	-.382	-.382	0	%100
85	MP4A	X	-.221	-.221	0	%100
86	MP4A	Z	-.382	-.382	0	%100
87	MP1C	X	-.221	-.221	0	%100
88	MP1C	Z	-.382	-.382	0	%100
89	MP2C	X	-.267	-.267	0	%100
90	MP2C	Z	-.463	-.463	0	%100
91	MP3C	X	-.221	-.221	0	%100
92	MP3C	Z	-.382	-.382	0	%100
93	MP4C	X	-.221	-.221	0	%100
94	MP4C	Z	-.382	-.382	0	%100
95	MP1B	X	-.221	-.221	0	%100
96	MP1B	Z	-.382	-.382	0	%100
97	MP2B	X	-.267	-.267	0	%100
98	MP2B	Z	-.463	-.463	0	%100
99	MP3B	X	-.221	-.221	0	%100
100	MP3B	Z	-.382	-.382	0	%100
101	MP4B	X	-.221	-.221	0	%100
102	MP4B	Z	-.382	-.382	0	%100
103	M101	X	-.181	-.181	0	%100
104	M101	Z	-.313	-.313	0	%100
105	M103	X	-.201	-.201	0	%100
106	M103	Z	-.348	-.348	0	%100
107	M104	X	-.2	-.2	0	%100
108	M104	Z	-.347	-.347	0	%100
109	M125	X	0	0	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,%]
110	M125	Z	0	0	0	%100
111	M126	X	-.228	-.228	0	%100
112	M126	Z	-.395	-.395	0	%100
113	M127	X	-.228	-.228	0	%100
114	M127	Z	-.395	-.395	0	%100
115	M128	X	-.379	-.379	0	%100
116	M128	Z	-.656	-.656	0	%100
117	M129	X	-.403	-.403	0	%100
118	M129	Z	-.697	-.697	0	%100
119	M130	X	-.379	-.379	0	%100
120	M130	Z	-.656	-.656	0	%100
121	M129A	X	0	0	0	%100
122	M129A	Z	0	0	0	%100
123	M130A	X	-.2	-.2	0	%100
124	M130A	Z	-.347	-.347	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	M51B	Y	-1.665	-4.226	0	.832
2	M51B	Y	-4.226	-6.901	.832	1.665
3	M51B	Y	-6.901	-8.189	1.665	2.497
4	M51B	Y	-8.189	-6.544	2.497	3.329
5	M51B	Y	-6.544	-3.463	3.329	4.162
6	M52B	Y	-3.469	-6.578	0	.832
7	M52B	Y	-6.578	-8.256	.832	1.665
8	M52B	Y	-8.256	-7.041	1.665	2.497
9	M52B	Y	-7.041	-4.429	2.497	3.329
10	M52B	Y	-4.429	-1.881	3.329	4.162
11	M31	Y	-1.665	-4.226	0	.832
12	M31	Y	-4.226	-6.901	.832	1.665
13	M31	Y	-6.901	-8.189	1.665	2.497
14	M31	Y	-8.189	-6.544	2.497	3.329
15	M31	Y	-6.544	-3.463	3.329	4.162
16	M32	Y	-3.469	-6.578	0	.832
17	M32	Y	-6.578	-8.256	.832	1.665
18	M32	Y	-8.256	-7.041	1.665	2.497
19	M32	Y	-7.041	-4.429	2.497	3.329
20	M32	Y	-4.429	-1.881	3.329	4.162
21	M55	Y	-1.884	-4.426	0	.832
22	M55	Y	-4.426	-7.044	.832	1.665
23	M55	Y	-7.044	-8.26	1.665	2.497
24	M55	Y	-8.26	-6.573	2.497	3.329
25	M55	Y	-6.573	-3.462	3.329	4.162
26	M56	Y	-3.463	-6.545	0	.832
27	M56	Y	-6.545	-8.189	.832	1.665
28	M56	Y	-8.189	-6.902	1.665	2.497
29	M56	Y	-6.902	-4.228	2.497	3.329
30	M56	Y	-4.228	-1.661	3.329	4.162

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	M51B	Y	-3.97	-10.075	0	.832
2	M51B	Y	-10.075	-16.452	.832	1.665
3	M51B	Y	-16.452	-19.524	1.665	2.497
4	M51B	Y	-19.524	-15.6	2.497	3.329
5	M51B	Y	-15.6	-8.256	3.329	4.162

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,%]
6	M52B	Y	-8.271	-15.681	0	.832
7	M52B	Y	-15.681	-19.681	.832	1.665
8	M52B	Y	-19.681	-16.787	1.665	2.497
9	M52B	Y	-16.787	-10.56	2.497	3.329
10	M52B	Y	-10.56	-4.484	3.329	4.162
11	M31	Y	-3.97	-10.075	0	.832
12	M31	Y	-10.075	-16.452	.832	1.665
13	M31	Y	-16.452	-19.524	1.665	2.497
14	M31	Y	-19.524	-15.6	2.497	3.329
15	M31	Y	-15.6	-8.256	3.329	4.162
16	M32	Y	-8.271	-15.681	0	.832
17	M32	Y	-15.681	-19.681	.832	1.665
18	M32	Y	-19.681	-16.787	1.665	2.497
19	M32	Y	-16.787	-10.56	2.497	3.329
20	M32	Y	-10.56	-4.484	3.329	4.162
21	M55	Y	-4.493	-10.552	0	.832
22	M55	Y	-10.552	-16.794	.832	1.665
23	M55	Y	-16.794	-19.693	1.665	2.497
24	M55	Y	-19.693	-15.671	2.497	3.329
25	M55	Y	-15.671	-8.253	3.329	4.162
26	M56	Y	-8.256	-15.602	0	.832
27	M56	Y	-15.602	-19.522	.832	1.665
28	M56	Y	-19.522	-16.454	1.665	2.497
29	M56	Y	-16.454	-10.08	2.497	3.329
30	M56	Y	-10.08	-3.961	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N87B	N7	N6	Y	Two Way	-.005
2	N55	N57	N33	N32	Y	Two Way	-.005
3	N84	N86	N62	N61	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N87B	N7	N6	Y	Two Way	-.012
2	N55	N57	N33	N32	Y	Two Way	-.012
3	N84	N86	N62	N61	Y	Two Way	-.012

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	777.883	10	-24.868	7	3539.014	13	-.03	7	1.105	4	.195	22
2		min	-768.219	4	-680.094	13	-833.92	7	-.558	13	-1.091	10	-.012	4
3	N30A	max	3312.269	21	20.776	3	502.124	2	.409	22	1.337	12	.435	49
4		min	-835.995	3	-587.633	21	-1927.376	19	-.103	40	-1.315	6	.009	2
5	N59	max	695.19	11	27.712	11	701.671	1	.106	4	1.221	8	-.111	12
6		min	-3120.065	17	-790.848	29	-1856.229	7	-.379	46	-1.209	2	-.799	30
7	N193	max	25.311	10	3301.682	13	-713.374	7	0	51	0	4	0	10
8		min	-25.303	4	708.32	7	-3241.711	13	0	1	0	10	0	4
9	N195	max	-644.92	3	3542.136	21	1741.077	21	0	6	0	12	0	12
10		min	-3015.8	21	739.597	3	372.269	3	0	12	0	6	0	6
11	N197	max	2837.068	17	3335.894	17	1637.936	17	0	8	0	8	0	8
12		min	634.814	11	728.03	11	366.642	11	0	38	0	38	0	38
13	Totals:	max	3482.246	10	8165.219	19	3684.029	1						

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	-3482.245	4	3021.285	2	-3684.027	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
1	M4	HSS4X4X4	.182	2.972	24	.057	3....	y	23	124657...	1395..	16.181	16.181	...	H1-...
2	M10	L3X3X4	.444	2.375	13	.238	.223	z	8	41175....	46656	1.688	3.756	...	H2-1
3	M43	L3X3X4	.441	0	13	.181	2....	z	7	41175....	46656	1.688	3.756	...	H2-1
4	M46	PL5/8x6	.164	.516	1	.294	.516	y	13	94845....	1215..	1.582	15.188	...	H1-...
5	M51B	L2x2x3	.189	0	20	.024	0	y	20	9823.1...	2339..	.558	1.077	...	H2-1
6	M52B	L2x2x3	.192	4.162	19	.024	4....	y	19	9823.1...	2339..	.558	1.077	...	H2-1
7	M76	PL3/8x6	.169	0	4	.226	0	y	21	70647....	72900	.57	9.113	...	H1-...
8	M77	PL3/8x6	.127	.167	8	.106	0	y	14	71583....	72900	.57	9.113	...	H1-...
9	M80	PL5/8x6	.046	.112	1	.136	0	y	24	121145...	1215..	1.582	15.188	...	H1-...
10	M84	PL3/8x6	.129	0	4	.226	0	y	19	70647....	72900	.57	9.113	...	H1-...
11	M85	PL3/8x6	.101	.167	6	.106	0	y	24	71583....	72900	.57	9.113	...	H1-...
12	M91	PL5/8x6	.056	.112	1	.087	0	y	14	121145...	1215..	1.582	15.188	...	H1-...
13	M25	HSS4X4X4	.197	2.972	20	.055	3....	y	19	124657...	1395..	16.181	16.181	...	H1-...
14	M26	L3X3X4	.455	2.375	21	.236	.223	z	4	41175....	46656	1.688	3.756	...	H2-1
15	M27	L3X3X4	.458	0	21	.202	2....	z	2	41175....	46656	1.688	3.756	...	H2-1
16	M28	PL5/8x6	.168	.516	8	.307	.516	y	20	94845....	1215..	1.582	15.188	...	H1-...
17	M31	L2x2x3	.195	0	16	.024	0	y	16	9823.1...	2339..	.558	1.077	...	H2-1
18	M32	L2x2x3	.197	4.162	15	.025	4....	y	14	9823.1...	2339..	.558	1.077	...	H2-1
19	M36	PL3/8x6	.180	0	12	.234	0	y	17	70647....	72900	.57	9.113	...	H1-...
20	M37	PL3/8x6	.124	.167	4	.110	0	y	22	71583....	72900	.57	9.113	...	H1-...
21	M39	PL5/8x6	.047	.112	9	.138	0	y	20	121145...	1215..	1.582	15.188	...	H1-...
22	M41	PL3/8x6	.144	0	12	.238	0	y	13	70647....	72900	.57	9.113	...	H1-...
23	M42	PL3/8x6	.114	.167	2	.111	0	y	20	71583....	72900	.57	9.113	...	H1-...
24	M44	PL5/8x6	.056	.112	9	.104	0	y	22	121145...	1215..	1.582	15.188	...	H1-...
25	M49	HSS4X4X4	.184	2.972	16	.071	3....	y	27	124657...	1395..	16.181	16.181	...	H1-...
26	M50A	L3X3X4	.454	2.375	17	.227	.223	z	12	41175....	46656	1.688	3.756	...	H2-1
27	M51C	L3X3X4	.443	0	17	.178	2....	z	11	41175....	46656	1.688	3.756	...	H2-1
28	M52A	PL5/8x6	.155	.516	4	.295	.516	y	16	94845....	1215..	1.582	15.188	...	H1-...
29	M55	L2x2x3	.192	0	24	.024	0	y	24	9823.1...	2339..	.558	1.077	...	H2-1
30	M56	L2x2x3	.190	4.162	23	.024	4....	y	23	9823.1...	2339..	.558	1.077	...	H2-1
31	M60	PL3/8x6	.188	0	8	.232	0	y	13	70647....	72900	.57	9.113	...	H1-...
32	M61	PL3/8x6	.123	.167	12	.109	0	y	18	71583....	72900	.57	9.113	...	H1-...
33	M63	PL5/8x6	.046	.112	5	.170	0	y	28	121145...	1215..	1.582	15.188	...	H1-...
34	M65	PL3/8x6	.134	0	8	.229	0	y	21	70647....	72900	.57	9.113	...	H1-...
35	M66	PL3/8x6	.099	.167	10	.107	0	y	16	71583....	72900	.57	9.113	...	H1-...
36	M68	PL5/8x6	.052	.112	5	.089	0	y	19	121145...	1215..	1.582	15.188	...	H1-...
37	M73	PIPE_3.0	.136	8.389	39	.049	11...		25	27936....	65205	5.749	5.749	...	H1-...
38	M74	PIPE_3.0	.110	8.389	23	.042	8....		8	27936....	65205	5.749	5.749	...	H1-...
39	M75	PIPE_3.0	.111	8.389	19	.040	8....		4	27936....	65205	5.749	5.749	...	H1-...
40	MP1A	PIPE_2.0	.148	3.313	40	.057	.625		7	20866....	32130	1.872	1.872	...	H1-...
41	MP2A	PIPE_2.5	.147	3.313	2	.049	3....		12	37773....	50715	3.596	3.596	...	H1-...
42	MP3A	PIPE_2.0	.166	3.313	11	.046	1....		8	20866....	32130	1.872	1.872	...	H1-...
43	MP4A	PIPE_2.0	.176	3.313	22	.071	.625		7	20866....	32130	1.872	1.872	...	H1-...
44	MP1C	PIPE_2.0	.132	3.313	13	.059	.625		3	20866....	32130	1.872	1.872	...	H1-...
45	MP2C	PIPE_2.5	.136	3.313	10	.051	3....		8	37773....	50715	3.596	3.596	...	H1-...
46	MP3C	PIPE_2.0	.171	3.313	7	.044	1....		4	20866....	32130	1.872	1.872	...	H1-...
47	MP4C	PIPE_2.0	.157	3.313	18	.058	.625		8	20866....	32130	1.872	1.872	...	H1-...
48	MP1B	PIPE_2.0	.131	3.313	21	.058	.625		11	20866....	32130	1.872	1.872	...	H1-...
49	MP2B	PIPE_2.5	.144	3.313	7	.049	3....		4	37773....	50715	3.596	3.596	...	H1-...
50	MP3B	PIPE_2.0	.169	3.313	3	.046	1....		12	20866....	32130	1.872	1.872	...	H1-...
51	MP4B	PIPE_2.0	.158	3.313	2	.057	.625		11	20866....	32130	1.872	1.872	...	H1-...

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
52	M101	PIPE_2.0	.066	2.5	1	.012	2.5		1	28843....	32130	1.872	1.872	1	H1-...
53	M103	PIPE_2.0	.071	3	12	.009	3		12	26521....	32130	1.872	1.872	...	H1-...
54	M104	PIPE_2.5	.109	8.334	40	.057	11...		6	14558....	50715	3.596	3.596	...	H1-...
55	M125	L3X3X4	.139	0	1	.025	0	z	12	45103....	46656	1.688	3.756	...	H2-1
56	M126	L3X3X4	.121	0	9	.024	1....	z	7	45103....	46656	1.688	3.756	...	H2-1
57	M127	L3X3X4	.123	0	5	.024	1....	z	3	45103....	46656	1.688	3.756	...	H2-1
58	M128	LL3x3x3x6	.099	0	13	.003	0	y	22	46544....	70632	6.362	3.751	1	H1-...
59	M129	LL3x3x3x6	.107	0	21	.003	0	z	6	46544....	70632	6.362	3.751	1	H1-...
60	M130	LL3x3x3x6	.100	0	17	.003	0	z	2	46544....	70632	6.362	3.751	1	H1-...
61	M129A	PIPE_2.5	.084	1.693	7	.059	11...		2	14558....	50715	3.596	3.596	...	H1-...
62	M130A	PIPE_2.5	.084	1.693	2	.057	11...		10	14558....	50715	3.596	3.596	...	H1-...

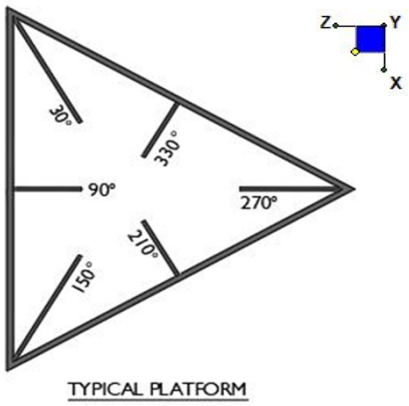
Client:	Verizon	Date:	6/10/2021
Site Name:	New Britian NW CT		
Project No.	21777239A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

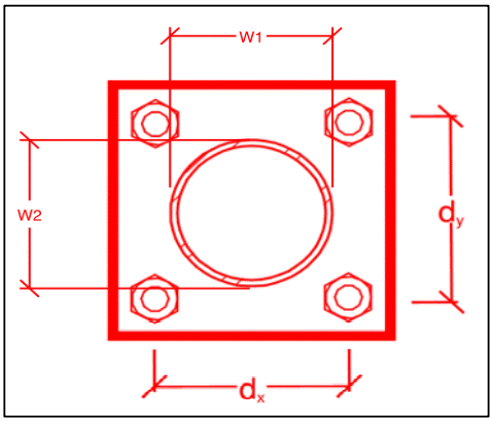
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N30A	30
N30A	270
N59	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	8
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	8
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	5.5
Required Shear Strength (kips):	2.2
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**6.6%***
Shear Capacity Overall:	**4.5%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	10
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.5
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	0.84
Plate Bending Capacity:	**29.6%**
Weld Capacity:	**20.2%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)* :	3.4
Phi*Mn_{xx} *(kip-in)* :	20.3
Mu_{yy} *(kip-in)* :	2.6
Phi*Mn_{yy} *(kip-in)* :	20.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact TES immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded **to** https://pmi.vzwsmart.com as depicted on the drawings

Photo Requirements:

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

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

Material Certification:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor shall install 36” long P2.0 STD equipment pipe on standoff arm in Beta sector. Attach the proposed equipment pipe to the standoff with crossover plate (Site Pro 1 Part #: SQCX4-K or EOR approved equivalent). Install equipment pipe with 30" above the standoff. Contractor shall attach proposed OVP 18” from the top of equipment pipe. Contractor to install safety climb cable guide (Site Pro 1, Part #: 120-203-317 or EOR approved equivalent) in locations where wire rope is rubbing against mount to tower attachments. Contractor to provide photos of safety climb guide installation.

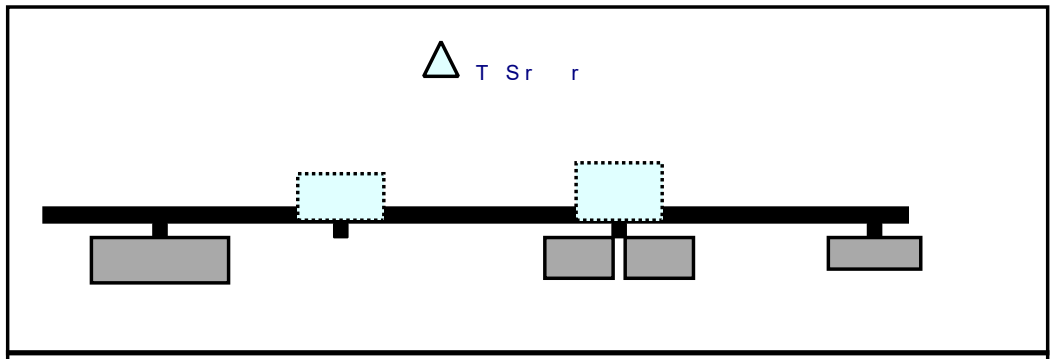
Response:

Schedule A – Photo & Document File Structure

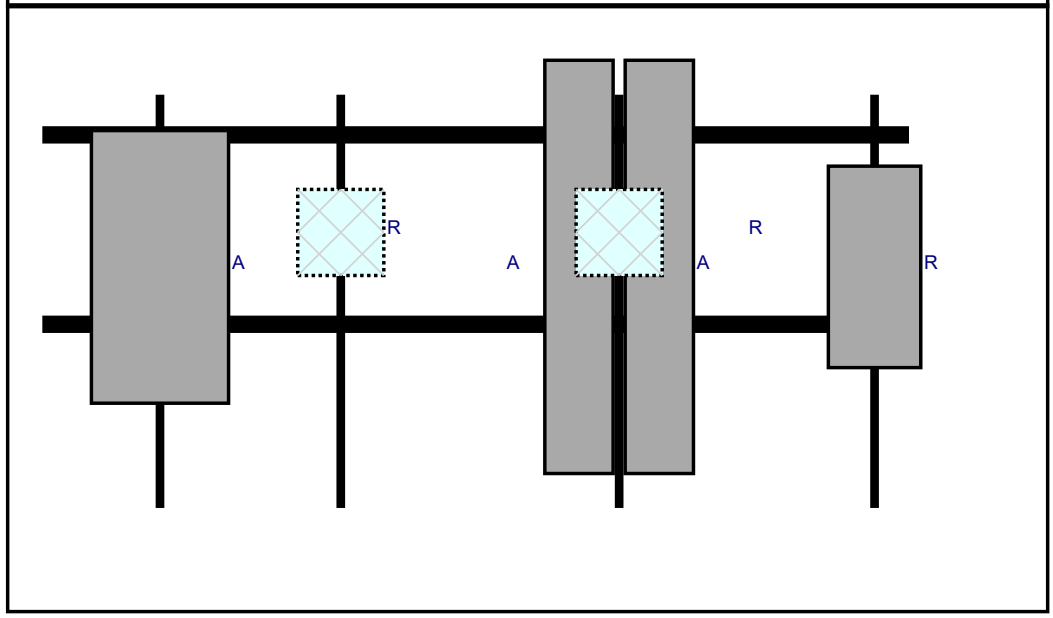
- VzW Site Number / Name
  - Base & “During Installation” Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety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

S r **A**
Sr r T M
M E . P

Plan View



Front View
L Sr r



d D P P A .A A
R M d r L. P P r T. O S d

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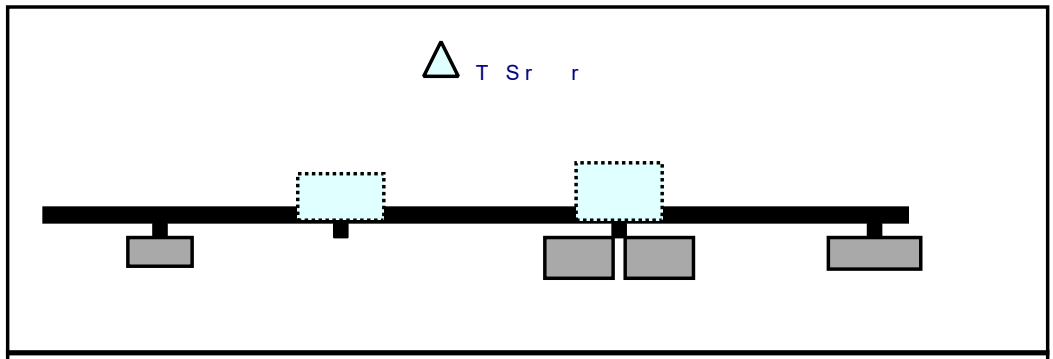
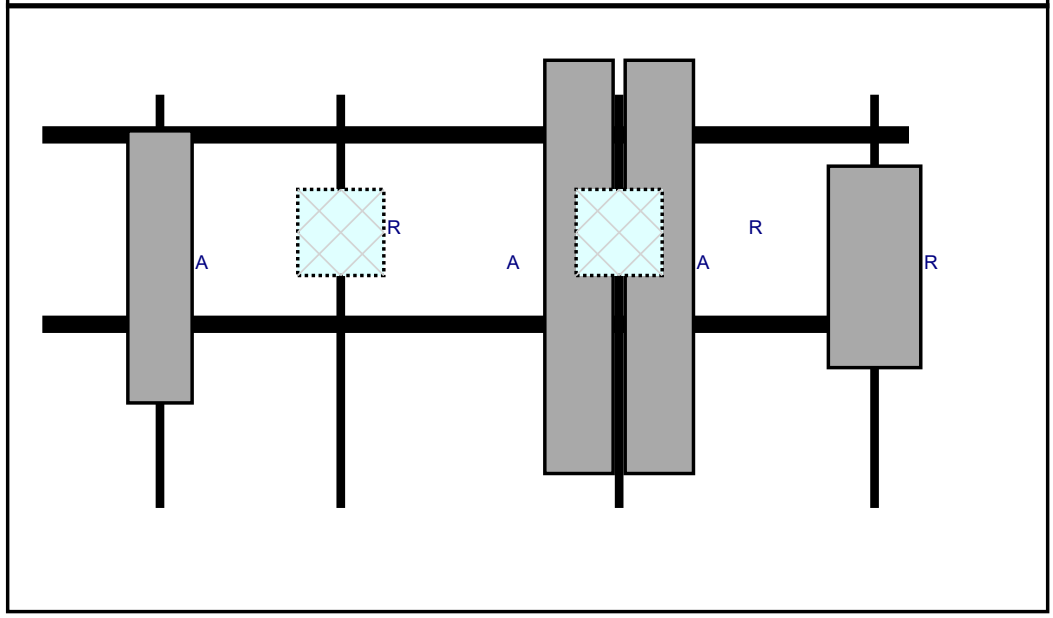
A	B R B	.	.		r		Add d
A	B R B	.	.		r		Add d
R	B B A RR BR		.		B d		Add d
R	B B RR BR				B d		Add d
A	B A ED	.	.	.	r		R d

S r **B**
Sr r T M
M E . P

Plan View



Front View
L Sr r

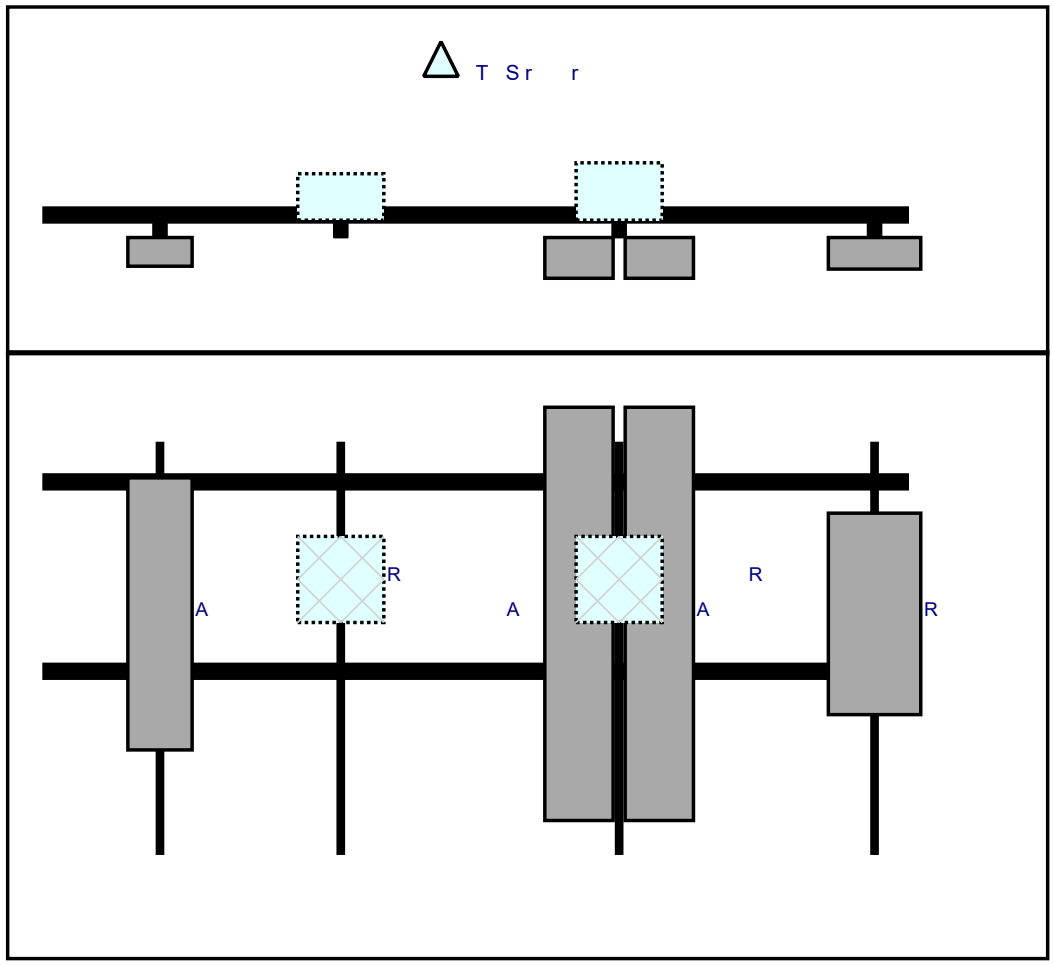


d D P P A .A A
R M d r L. P P r T. O S d

R	MT A	.	.		r		Add d
A	B R B	.	.		r		Add d
A	B R B	.	.		r		Add d
R	B B A RR BR		.		B d		Add d
R	B B RR BR				B d		Add d
A	B A	.	.	.	r		R d

S r **C**
Sr r T M
M E . P

Plan View



Front View
L Sr r

d D P P A .A A
R M d r L. P P r T. O S d

R	MT A	.	.		r		Add d
A	B R B	.	.		r		Add d
A	B R B	.	.		r		Add d
R	B B A RR BR		.		B d		Add d
R	B B RR BR				B d		Add d
A	B A	.	.	.	r		R d

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	535831-VZW / NEW BRITAIN NW CT
	Site Name:	NEW BRITAIN NW CT
	Carrier Name:	Verizon Wireless
	Address:	115 North Mountain Road New Britain, Connecticut 06053 Hartford County
	Latitude:	41.676590°
	Longitude:	-72.821414°
Structure Information	Tower Type:	Monopole
	Mount Type:	12.58-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,

Dejian Xu

Dejian Xu, PE
Technical Manager

Exhibit F

Power Density/RF Emissions Report

Site Name: ***NEW BRITAIN NW CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	689	2756	90	0.0122	0.5007	2.44%
VZW CDMA	869	2	408	816	90	0.0036	0.5793	0.63%
VZW Cellular	869	4	700	2800	90	0.0124	0.5793	2.15%
VZW PCS	1980	4	1500	6000	90	0.0266	1.0000	2.66%
VZW AWS	2125	4	1672	6688	90	0.0297	1.0000	2.97%
VZW CBAND	3730	4	6531	26124	90	0.1160	1.0000	11.60%
Total Percentage of Maximum Permissible Exposure								22.45%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Exhibit G

Recipient Mailings

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usps.com
$8.95
US POSTAGE
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06/17/2022

Mailed from 01566

U.S. POSTAGE PAID
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PRIORITY MAIL 1-DAY™

DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Expected Delivery Date: 06/18/22

Ref#: CR-876331

0006

C006

CROWN CASTLE
1800 W PARK DR
WESTBOROUGH MA 01581-3926

USPS TRACKING #

9405 5036 9930 0276 0427 89

Electronic Rate Approved #038555749

Cut on dotted line.

Instructions

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2. **Place your label so it does not wrap around the edge of the package.**
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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.**
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Expected Delivery Date:	06/18/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876331

To: CROWN CASTLE
1800 W PARK DR
WESTBOROUGH MA 01581-3926

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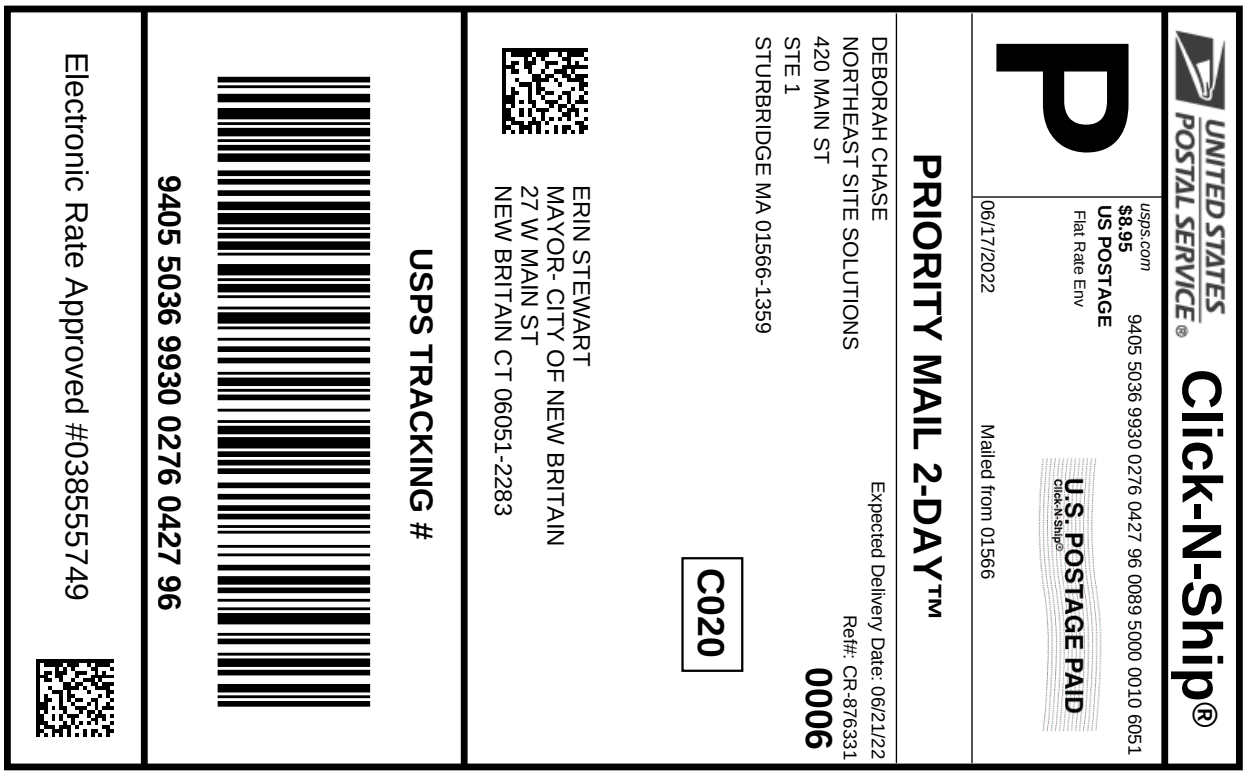

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Trans. #:	565836349
Print Date:	06/17/2022
Ship Date:	06/17/2022
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Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876331

To: ERIN STEWART
MAYOR- CITY OF NEW BRITAIN
27 W MAIN ST
NEW BRITAIN CT 06051-2283

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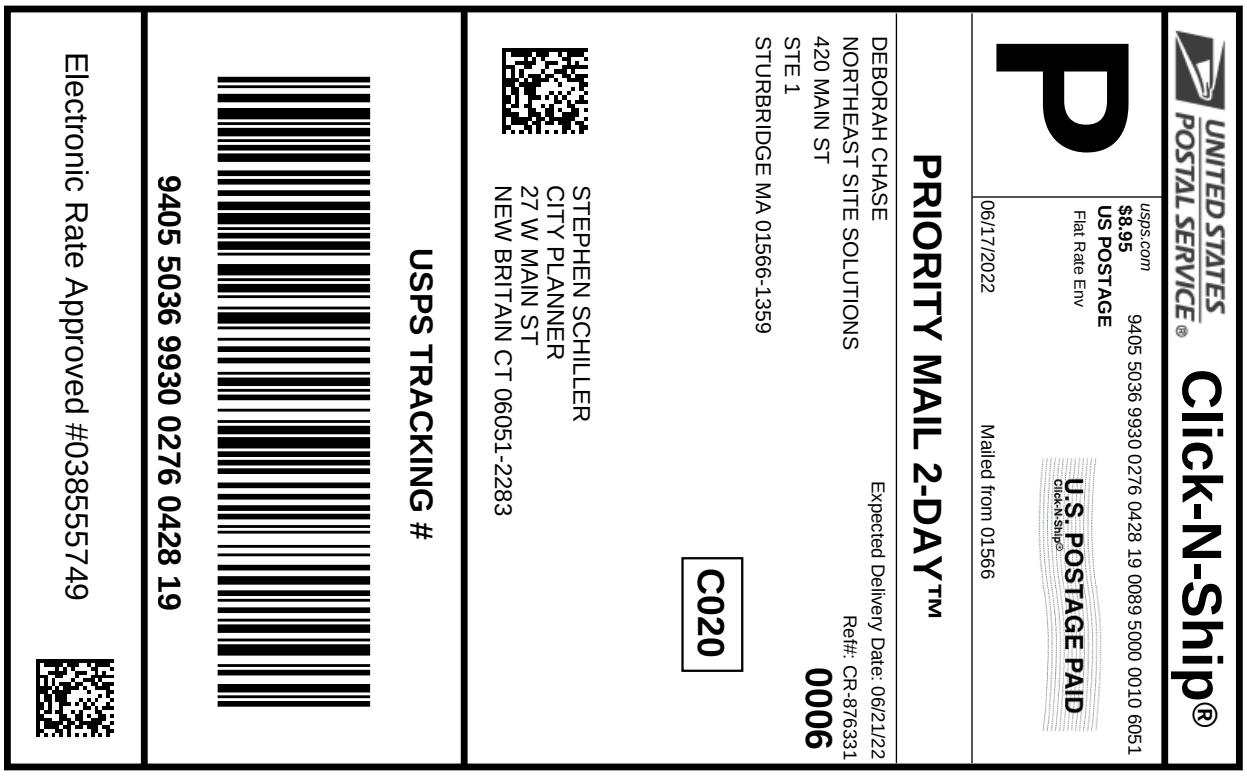

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USPS TRACKING # :
9405 5036 9930 0276 0428 19

Trans. #:	565836349
Print Date:	06/17/2022
Ship Date:	06/17/2022
Expected Delivery Date:	06/21/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876331

To: STEPHEN SCHILLER
CITY PLANNER
27 W MAIN ST
NEW BRITAIN CT 06051-2283

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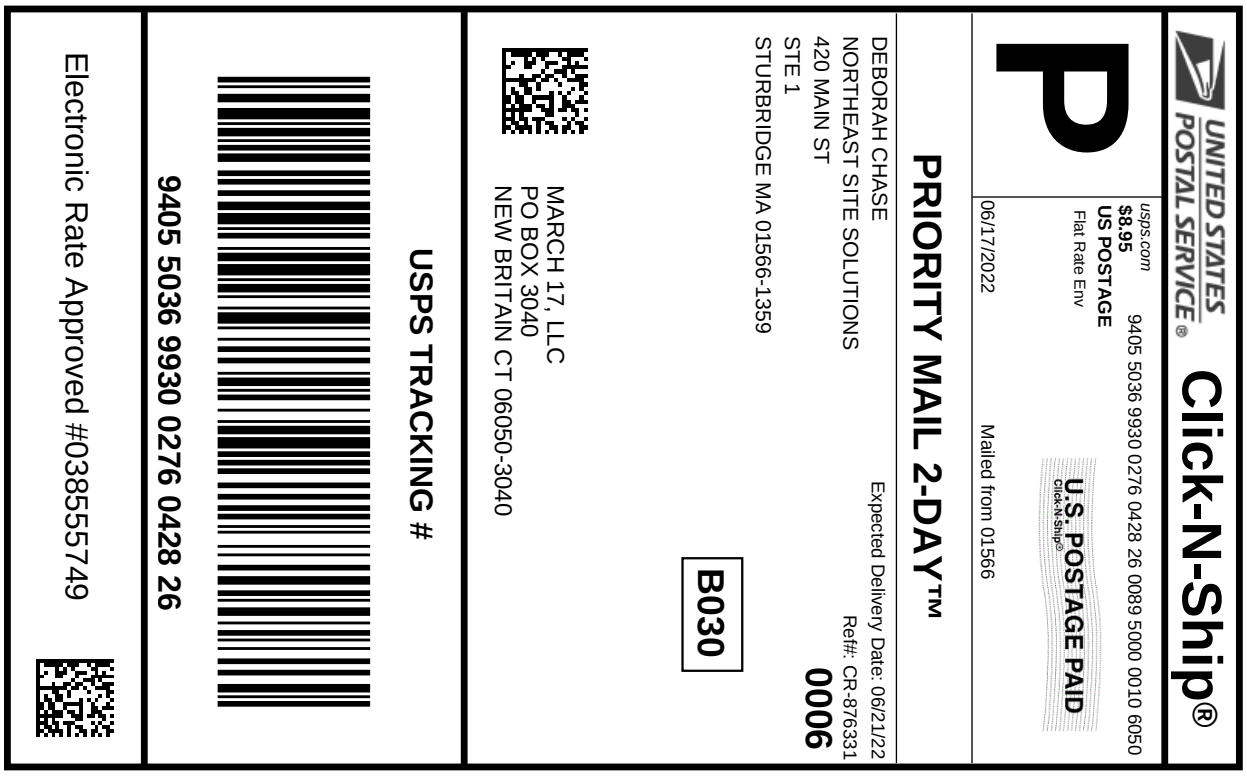

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Click-N-Ship® Label Record

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Trans. #:	565836349
Print Date:	06/17/2022
Ship Date:	06/17/2022
Expected Delivery Date:	06/21/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876331

To: MARCH 17, LLC
PO BOX 3040
NEW BRITAIN CT 06050-3040

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FARMINGTON, CT 06032-9998
(800)275-8777

06/22/2022 10:40 AM

Product	Qty	Unit Price	Price
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Prepaid Mail New Britain, CT 06051 Weight: 0 lb 10.50 oz Acceptance Date: Wed 06/22/2022 Tracking #: 9405 5036 9930 0276 0427 96	1		$0.00
Prepaid Mail New Britain, CT 06051 Weight: 0 lb 10.40 oz Acceptance Date: Wed 06/22/2022 Tracking #: 9405 5036 9930 0276 0428 19	1		$0.00
Prepaid Mail New Britain, CT 06050 Weight: 0 lb 10.40 oz Acceptance Date: Wed 06/22/2022 Tracking #: 9405 5036 9930 0276 0428 26	1		$0.00
Grand Total:			$0.00

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