NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

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

December 16, 2022

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

RE: Exempt Modification Application
20 Great Oak Road, Oxford, CT 06478
Latitude: 41.426388
Longitude: -73.144166
Site #: 876361_Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 20 Great Oak Road, Oxford, CT 06478. Verizon Wireless currently maintains twelve (12) antennas at the 140-foot level of the existing 150-foot tower. The property is owned by the Town of Oxford and the tower is owned by Crown Castle. Verizon now intends to replace nine (9) antennas. The new antennas would be installed at the 140-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 Consulting Mount Analysis dated November 10, 2022.

Verizon Planned Modifications:

Remove: None

Remove and Replace:
(6) AMPHENOL LPA-80063 Antennas (REMOVE) – (6) JMA MX06FRO660-03 Antennas (REPLACE)
(3) AMPHENOL BXA-171063-128F Antennas (REMOVE) – (3) SAMSUNG MT6407-77A Antennas (REPLACE)

Install New:
(3) SAMSUNG B5/B13 -BR04C – RFV01U-D2A RRH
(3) SAMSUNG B2/B66A -BR049 – RFV01U-D1A RRH
(1) Raycap RVZDC-6627-PF-48 OVP
(2) Hybrid Line 1-1/4"

Existing to Remain:
(3) ANTEL BXA-70063-6CF-2 Antennas
(16) Coax 1-5/8"

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The facility was originally approved by the Town of Oxford on November 18, 1999, 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 George R. Temple, First Selectman and Steven Macary, Zoning Enforcement Official for the Town of Oxford. 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: George R. Temple, First Selectman & Property Owner
Oxford Town Hall
486 Oxford Road
Oxford, CT 06478

Steven Macary, Zoning Enforcement Official
Oxford Town Hall
486 Oxford Road
Oxford, CT 06478

Crown Castle – Tower Owner

Exhibit A

Original Facility Approval

PLANNING & ZONING COMMISSION
TOWN OF OXFORD
486 Oxford Road
Oxford, CT 06478
(203) 888-2543

Z#: Z-99-182
Date Rec'd: 9/23/99
Date on Agenda:
65-Day Expiration:

ZONING PERMIT APPLICATION
(This permit is hereby applied for in accordance with the requirements of the Oxford Zoning Regulations)

Property Identification

Street Address: 20 Great Oak Road
Subdivision Name: ______ Date Approved: ______
Map: 21 Block: 61 Lot: 1A Zoning district: Municipal Property

Owner/Applicant

Owner Name: TOWN OF OXFORD
Owner Address: 486 Oxford Road, Oxford, Connecticut 06478
Owner Telephone: (203) XXXXXXXX 888-2543

Applicant Name: SPRINT SPECTRUM L.P.
Applicant Address: 9 Barnes Industrial Road, Wallingford, CT 06492
Applicant Telephone: (203) 294-5644
Alison - (860) 509-6583

Miscellaneous Information

Special Exception: Article 10 Section 8.4 Yes No
Site Plan Approval: Article ______ Section ______ Yes No
Estimated Cost of Construction: $200,000
Variance Granted: ______ Date Granted: ______

Signatures/Authorization

Application for Zoning Permit approval as described herein is hereby made. The Oxford Planning & Zoning Commission and its technical staff are authorized to enter the property for the purpose of evaluating this application.

Permit Void If: a) Work or activity not commenced within 1 year of the date of issuance or b) Authorized construction not completed within 2 years of the date of issuance.

This permit, if issued, is based upon the plot plan submitted. Falsification, by misrepresentation or omission, or failure to comply with the conditions of approval of this permit constitute a violation of the Oxford Zoning Regulations.

Paul T. Schuber — 9-2-99
Property Owner or Agent — Date

Purpose
___ New Home
___ Addition
___ Garage
___ Cottage Business
___ Swimming Pool IG AG
___ Sign
___ Shed
___ Barn
___ Change of Use
___ Excavating/Filling
___ Trailer
✓ Other wireless telecommunication tower/facility

Use
✓ Single-Family Residence
___ Multi-Family Residence
___ Commercial
___ Industrial
___ Residential/POD
___ Other ______

Required Approvals and Dates
✓ Inland Wetlands 9/23/99
✓ P.D.D.H. ______
___ Fire Marshal ______
___ Z.B.A. ______
___ W.P.C.A. ______
___ Floodplain ______
✓ Copy of Deed 9/8/99
___ Driveway ______
___ Erosion Control Plan
✓ Plot Plan *
___ Other Rev 9/21/99

$180.00 Town Fee ($150 - SE; $30 - Zoning Permit)
$10.00 State Fee
$190.00 Total Fee

*Draw plot plan of proposed construction and attach. Plan must show property boundaries and dimensions; location of proposed buildings on property with respect to boundaries; location of existing buildings on property; outside dimensions of all buildings proposed or now existing; location of water supply; location of sewage system. All copies must have a complete sketch. Construction and use must be exactly as described in this application. If later changes from this plan are desired prior approval of an amended application is necessary.

per P&Z Comm. mtg of 11-18-99

Denied **Approved** By: Kelly Weymer — Date: 11-18-99
Title: ZEO
Reason for Denial ______

ZPA-1
(Adopted 5/15/97)

White - P&Z Files / Yellow - Building Department / Pink - Applicant

Exhibit B

Property Card

20 GREAT OAK RD

Location	20 GREAT OAK RD	**Mblu**	21/ 61/ 1A/ CELL/
Acct#	O041290C	**Owner**	STC FIVE LLC
Assessment	$425,200	**Appraisal**	$607,400
PID	5982	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2020	$607,400	$0	$607,400
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2020	$425,200	$0	$425,200

Owner of Record

Owner	STC FIVE LLC
Co-Owner	C/O CROWN CASTLE
Address	4017 WASHINGTON RD PMB 331 MCMURRAY , PA 15317

Sale Price	$0
Book & Page	000/ 000
Sale Date	10/01/2010
Instrument	

Ownership History

Ownership History				
Owner	**Sale Price**	**Book & Page**	**Instrument**	**Sale Date**
STC FIVE LLC	$0	000/ 000		10/01/2010

Building Information

Building 1 : Section 1

Year Built:	
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	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Full Bthrms:	
Half Baths:	
Extra Fixtures	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Extra Kitchens	
Fireplace(s)	
Extra Opening(s)	
Gas Fireplace(s)	
Blocked FPL(s)	
Woodstove(s)	
Bsmt Garage(s)	
SF Fin Bsmt	
FBM Quality	
Dormer LF	
Int Millwork	
Ext Millwork	
Foundation	

Building Photo

(http://images.vgsi.com/photos/OxfordCTPhotos//\00\01\26/16.jpg)

Building Layout

Building Layout

(http://images.vgsi.com/photos/OxfordCTPhotos//Sketches/5982_20227.jp

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	307
Description	Cell Tower
Zone	
Neighborhood	090
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	0
Frontage	
Depth	
Assessed Value	$0
Appraised Value	$0

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
CELL	Cell Site			3 SITES	$528,000	1
SHD4	Cell Shed			288 S.F.	$77,800	1
FN5	Fence 10'			240 L.F.	$1,600	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$607,400	$0	$607,400
2018	$607,400	$0	$607,400
2017	$607,400	$0	$607,400

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$425,200	$0	$425,200
2018	$425,200	$0	$425,200
2017	$425,200	$0	$425,200

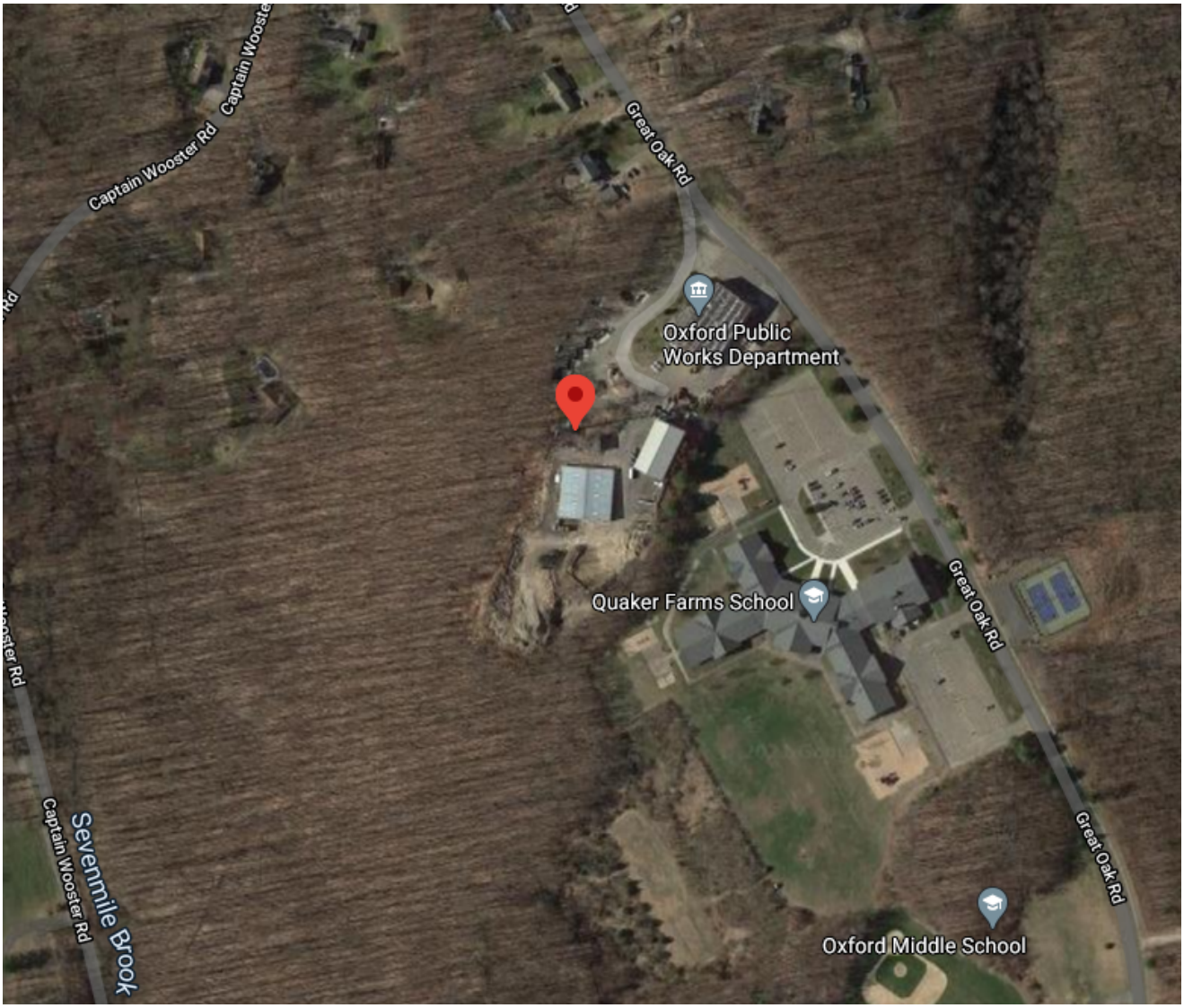

Captain Wooster Rd
Great Oak Rd
Oxford Public
Works Department
Quaker Farms School
Great Oak Rd
Great Oak Rd
Oxford Middle School
Sevenmile Brook
Captain Wooster Rd

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 467421
VERIZON SITE NAME: OXFORD W CT
SITE TYPE: MONOPOLE
TOWER HEIGHT: 150'-0"

BUSINESS UNIT #: 876361
SITE ADDRESS: 20 GREAT OAK ROAD OXFORD, CT 06478
COUNTY: NEW HAVEN
JURISDICTION: CONNECTICUT SITING COUNCIL

VERIZON 5G L-SUB6 - CARRIER ADD

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	SEYMOUR 2 / OXFORD TOWN GARAGE
SITE ADDRESS:	20 GREAT OAK ROAD OXFORD, CT 06478
COUNTY:	NEW HAVEN
MAP/PARCEL #:	21-61-38A
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.426364°
LONGITUDE:	-73.144258°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	733'
CURRENT ZONING:	RESIDENTIAL A DISTRICT
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	TOWN OF OXFORD 486 OXFORD RD OXFORD, CT 06478
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO 1 (800) 286-2000
TELCO PROVIDER:	CROWN CASTLE FIBER 1 (855) 913-4237

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:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 WILLIAM GATES - PROJECT MANAGER WILLIAM.GATES@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	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	10070585
VzW LOCATION CODE (PSLC)	467421

*** 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 BRADLEY INTERNATIONAL AIRPORT:
GET ON BRADLEY INTERNATIONAL AIRPORT CON FROM BRADLEY INTERNATIONAL AIRPORT, HEAD NORTH TOWARD BRADLEY INTERNATIONAL AIRPORT, SLIGHT LEFT ONTO BRADLEY INTERNATIONAL AIRPORT, CONTINUE STRAIGHT KEEP RIGHT TO CONTINUE TOWARD BRADLEY INTERNATIONAL AIRPORT CON, FOLLOW I-91 S AND I-84 TO CT-188 S IN SOUTHBURY. TAKE EXIT 16 FROM I-84, CONTINUE ONTO BRADLEY INTERNATIONAL AIRPORT CON CONTINUE ONTO CT-20 E/BRADLEY INTERNATIONAL AIRPORT CON, USE THE RIGHT 2 LANES TO MERGE WITH I-91 S TOWARD HARTFORD, TAKE EXIT 32A-32B FOR I-84 W TOWARD WATERBURY, MERGE WITH I-84, TAKE EXIT 16 FOR CT-188 TOWARD SOUTHBURY, CONTINUE ON CT-188 S. DRIVE TO GREAT OAK RD IN OXFORD, TURN LEFT ONTO CT-188 S, TURN LEFT ONTO CT-188 S/CT-67 S, TURN RIGHT ONTO CT-188 S, TURN LEFT ONTO HOGS BACK RD, TURN RIGHT ONTO GREAT OAK RD, KEEP RIGHT TO STAY ON GREAT OAK RD, 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	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	NB+C, LLC
DATED:	6/11/21
RFDS REVISION:	REV2
DATED:	6/8/22
ORDER ID:	552682
REVISION:	1

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 (2) COAX
- RELOCATE (3) ANTENNAS
- INSTALL (9) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (1) OVP
- INSTALL (2) HYBRID CABLE
- INSTALL MOUNT MODIFICATION PER MOUNT ANALYSIS BY NB+C, LLC DATED JUNE 11, 2021

GROUND SCOPE OF WORK:
- REMOVE (3) RRHs TO TOWER

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

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

VERIZON SITE NUMBER:
467421

BU #: **876361**
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV.	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/28/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: T-1
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

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

GENERAL NOTES:

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

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

GREENFIELD GROUNDING NOTES:

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

ELECTRICAL INSTALLATION NOTES:

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

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

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

APWA UNIFORM COLOR CODE:

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

ABBREVIATIONS:

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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

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

VERIZON SITE NUMBER:
467421

BU #: **876361**
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

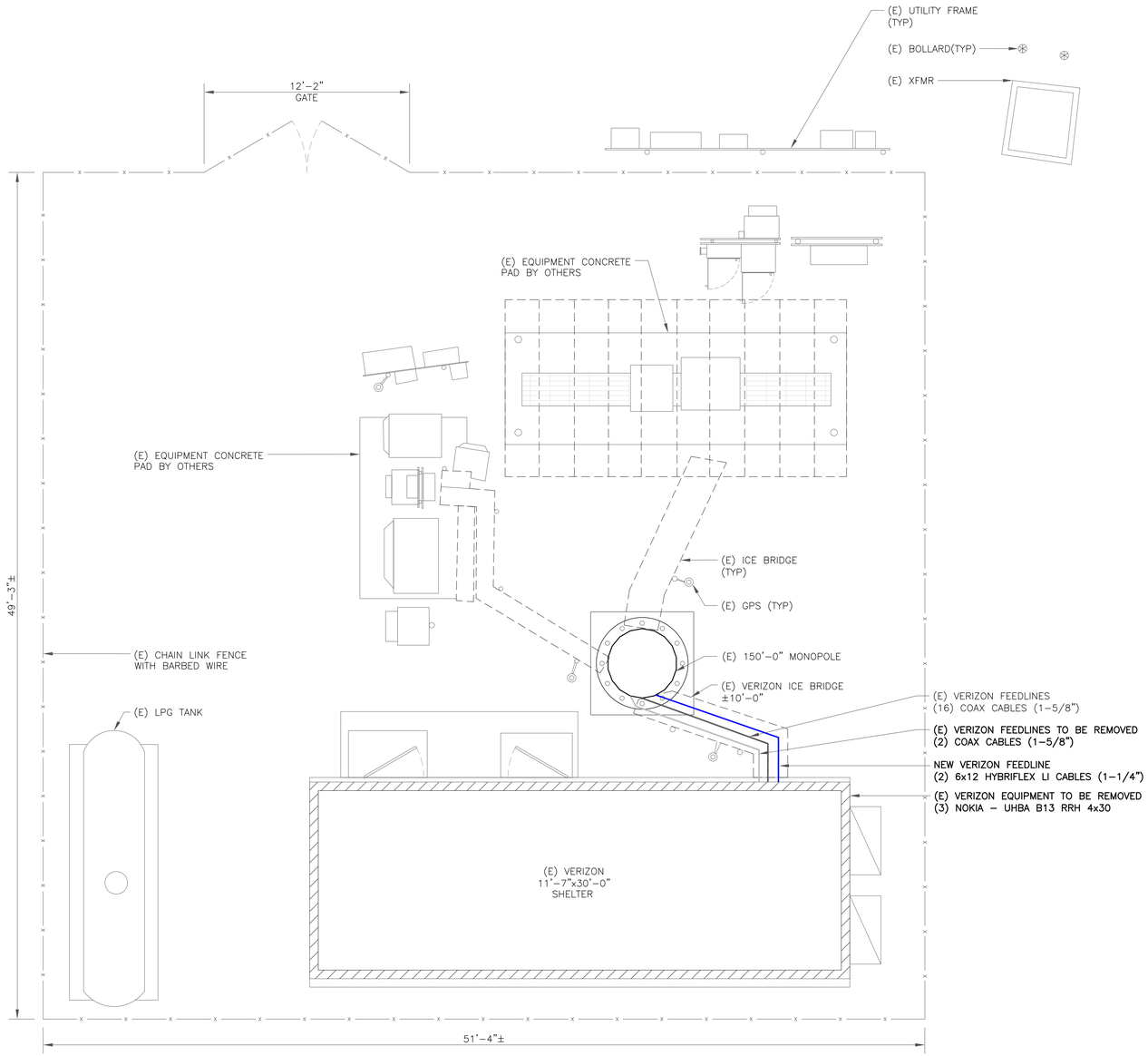
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

No. 23924
6/28/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

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

SHEET NUMBER: T-2
REVISION: 0



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

N

verizon
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EXISTING 150'-0" MONOPOLE

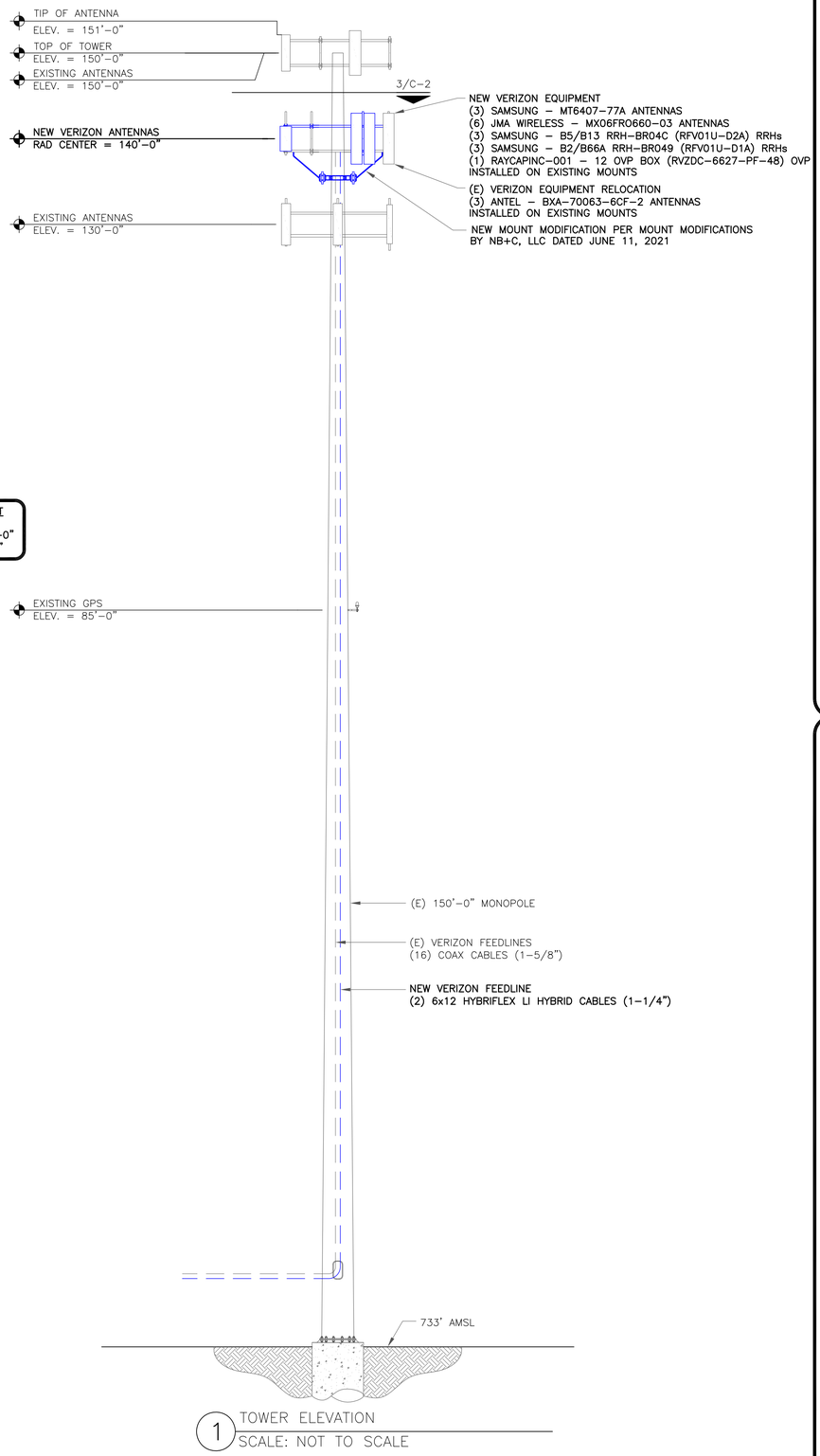
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
MICHAEL T. JONES
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/28/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-1
REVISION: 0



1 TOWER ELEVATION
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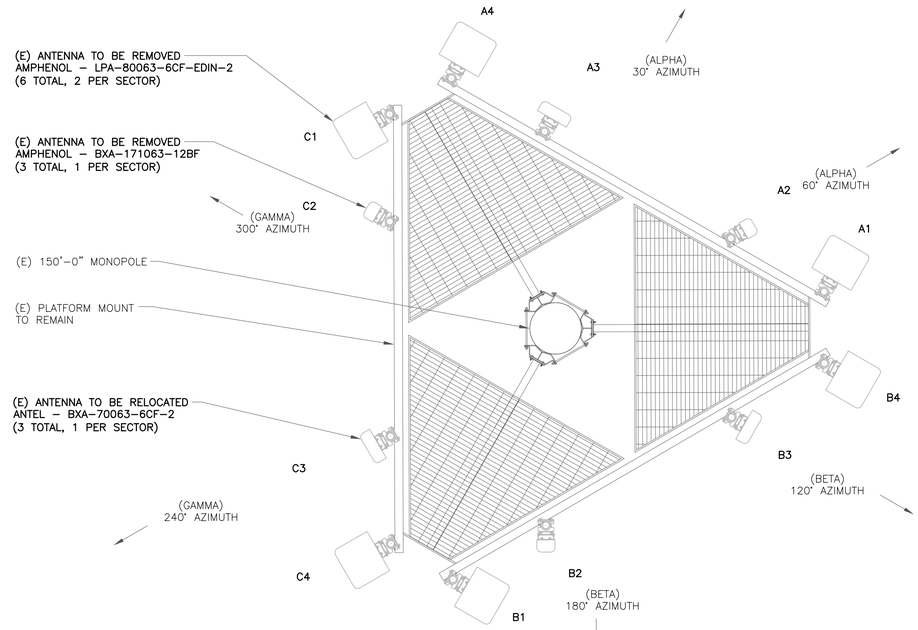
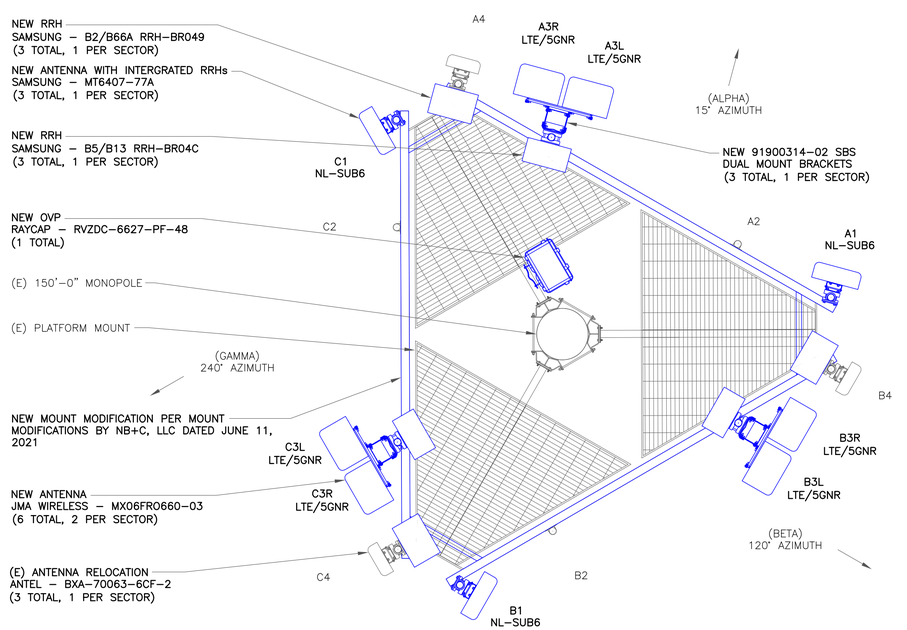


2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE
N

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180 WASHINGTON VALLEY ROAD
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STATE OF CONNECTICUT
MICHAEL T. JONES
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/28/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-2

REVISION: 0

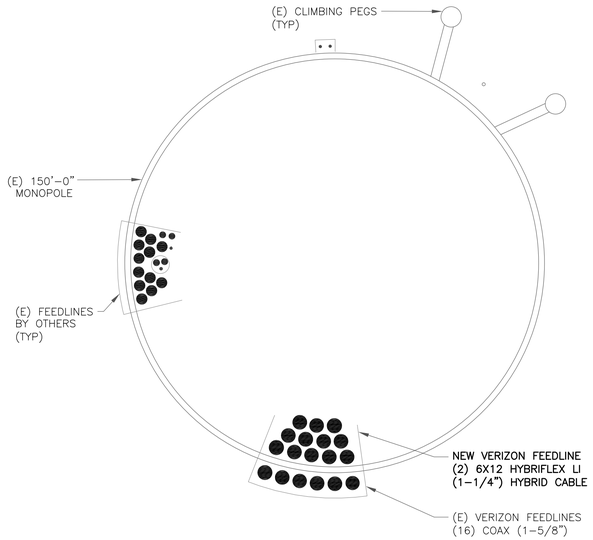
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	SAMSUNG	MT6407-77A	140'-0"	15°	0°	6°	–	INTERGRATED WITHIN
A2	–	–	EMPTY MOUNT PIPE	–	–	–	–	RAYCAPINC	12 OVP BOX (RVZDC-6627-PF-48)
A3L	NEW	JMA WIRELESS	MX06FRO660-03	140'-0"	15°	0°	2°/2°/2° /0°/0°/0°	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A)
A3R	NEW	JMA WIRELESS	MX06FRO660-03	140'-0"	15°	0°	2°/2°/2° /0°/0°/0°	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A)
A4	EXISTING	ANTEL	BXA-70063-6CF-2	140'-0"	15°	0°	2°	–	–
B1	NEW	SAMSUNG	MT6407-77A	140'-0"	120°	0°	6°	–	INTERGRATED WITHIN
B2	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
B3L	NEW	JMA WIRELESS	MX06FRO660-03	140'-0"	120°	0°	2°/2°/2° /0°/0°/0°	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A)
B3R	NEW	JMA WIRELESS	MX06FRO660-03	140'-0"	120°	0°	2°/2°/2° /0°/0°/0°	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A)
B4	EXISTING	ANTEL	BXA-70063-6CF-2	140'-0"	120°	0°	2°	–	–
C1	NEW	SAMSUNG	MT6407-77A	140'-0"	240°	0°	6°	–	INTERGRATED WITHIN
C2	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
C3L	NEW	JMA WIRELESS	MX06FRO660-03	140'-0"	240°	0°	2°/2°/2° /0°/0°/0°	SAMSUNG	(1) B5/B13 RRH-BR04C (RFV01U-D2A)
C3R	NEW	JMA WIRELESS	MX06FRO660-03	140'-0"	240°	0°	2°/2°/2° /0°/0°/0°	SAMSUNG	(1) B2/B66A RRH-BR049 (RFV01U-D1A)
C4	EXISTING	ANTEL	BXA-70063-6CF-2	140'-0"	240°	0°	2°	–	–

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	190'-0"±	16
NEW	HYBRID	1-1/4"	190'-0"±	2
TOTAL CABLE QTY:				18



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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

VERIZON SITE NUMBER:
467421

BU #: **876361**
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

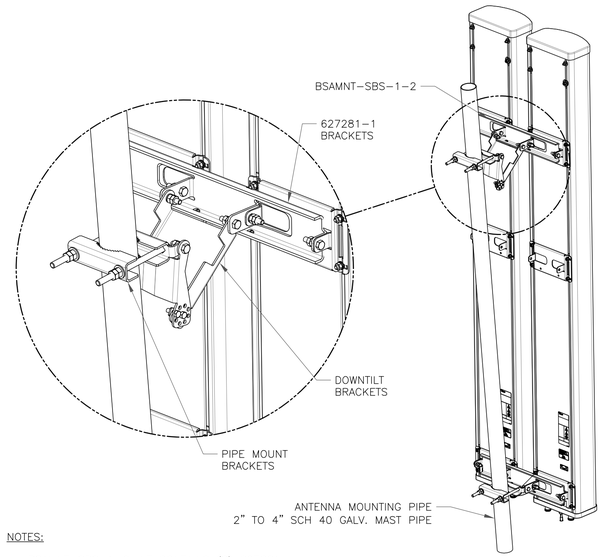
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
MICHAEL T. JONES
No. 23924
LICENSED PROFESSIONAL ENGINEER
6/28/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-3

REVISION: 0

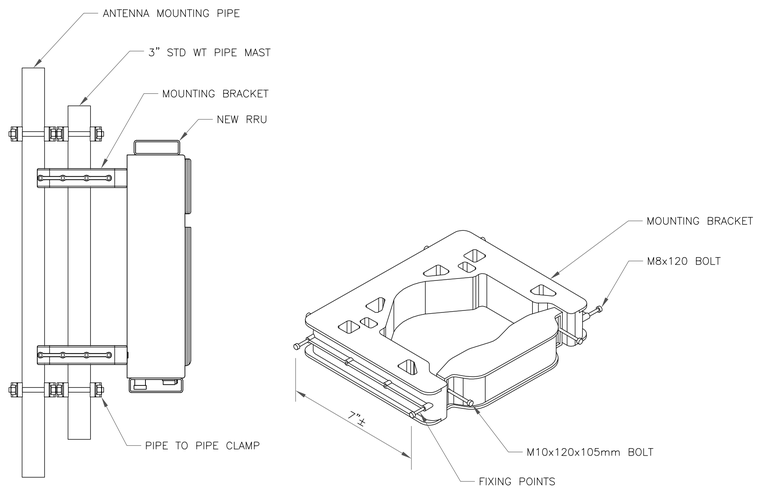


NOTES:

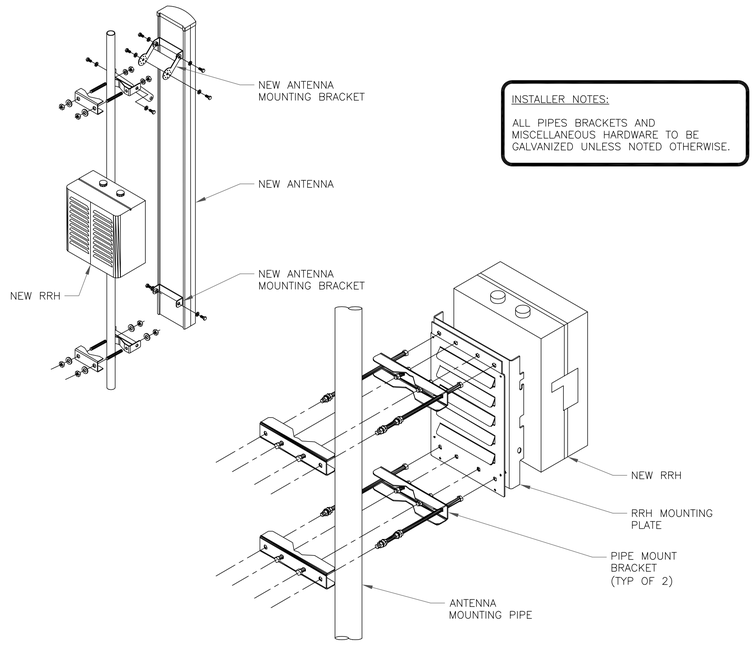
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

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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BU #: **876361**
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

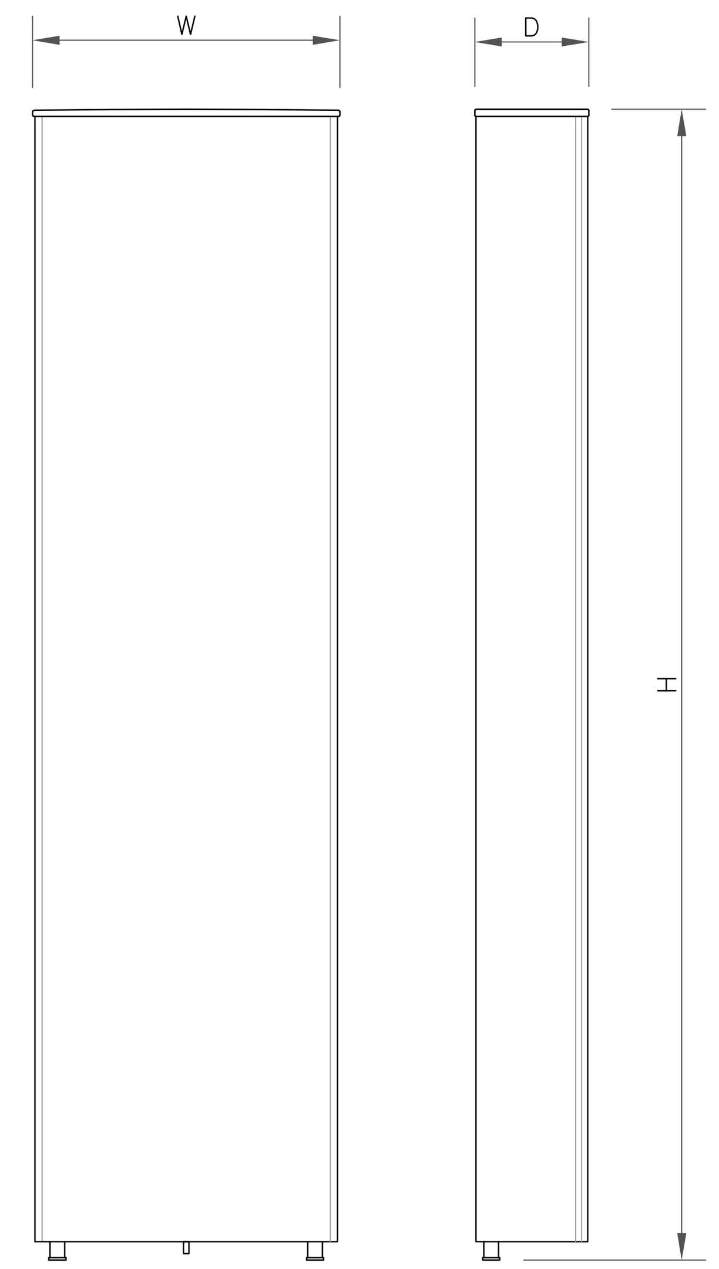
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

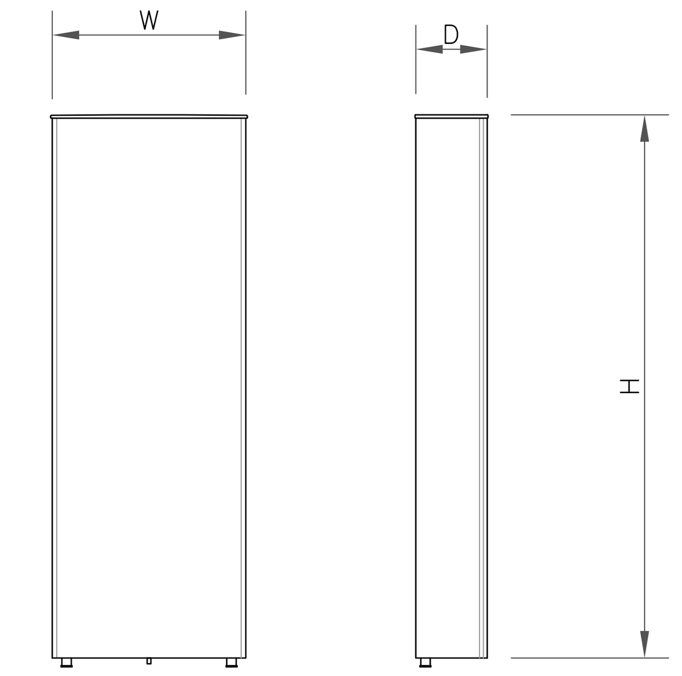
SHEET NUMBER: C-4

REVISION: 0



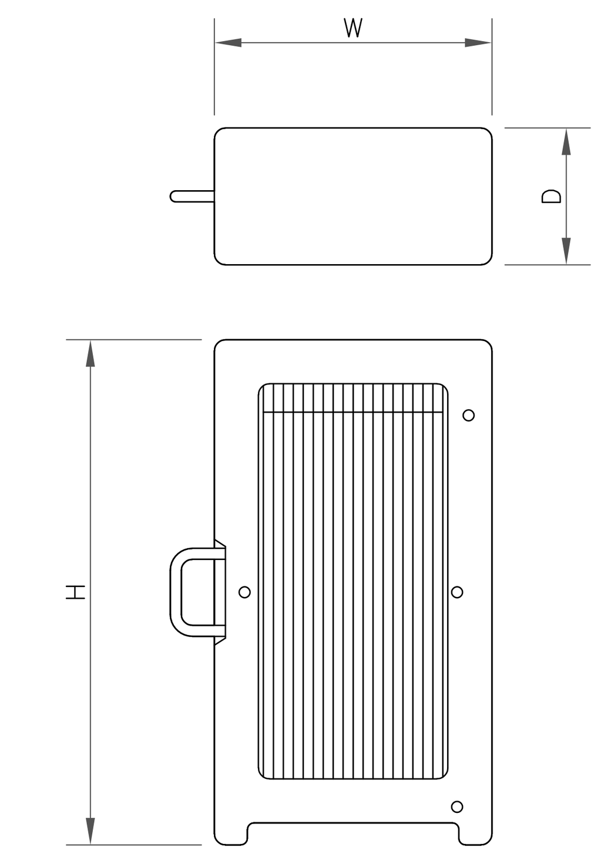
ANTENNA SPECS	
MANUFACTURER	JMA WIRELESS
MODEL #	MX06FRO660-03
WIDTH	15.40"
DEPTH	10.70"
HEIGHT	71.30"
WEIGHT	78.00 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



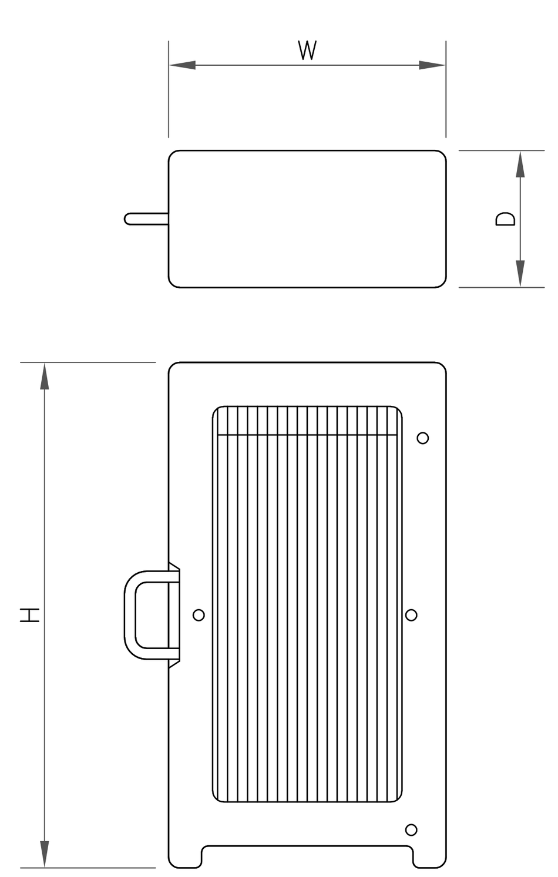
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



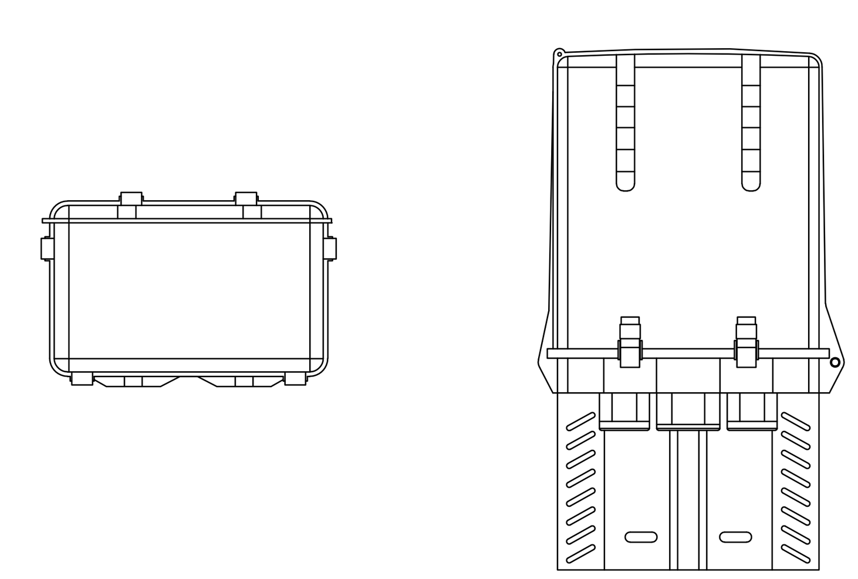
RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	B5/B13 RRH-BR04C (RFV01U-D2A)
WIDTH	15.00"
DEPTH	8.10"
HEIGHT	15.00"
WEIGHT	70.30 LBS

3 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	B2/B66A RRH-BR049 (RFV01U-D1A)
WIDTH	15.00"
DEPTH	10.00"
HEIGHT	15.00"
WEIGHT	84.40 LBS

4 RRU SPECS
SCALE: NOT TO SCALE



RAYCAP – RCMDC-6627-PF-48
WEIGHT (WITHOUT MOUNTING HARDWARE): 32.0 LBS
SIZE (HxWxD): 28.9x15.7x10.3 IN.

RATED WIND VELOCITY: 150 MPH (SUSTAINED)
OPERATING TEMPERATURE: –40° C TO +80° C
NOMINAL OPERATING DC VOLTAGE: 48 VDC

5 RAYCAP – RCMDC-6627-PF-48
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
467421

BU #: **876361**
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

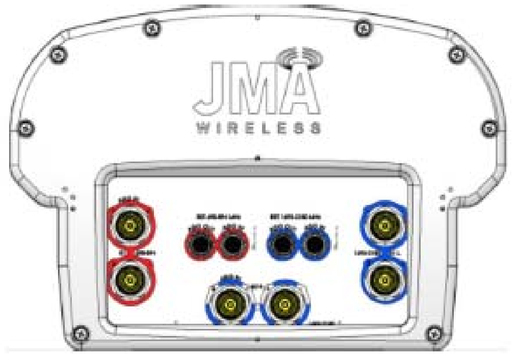
6/28/22

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

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

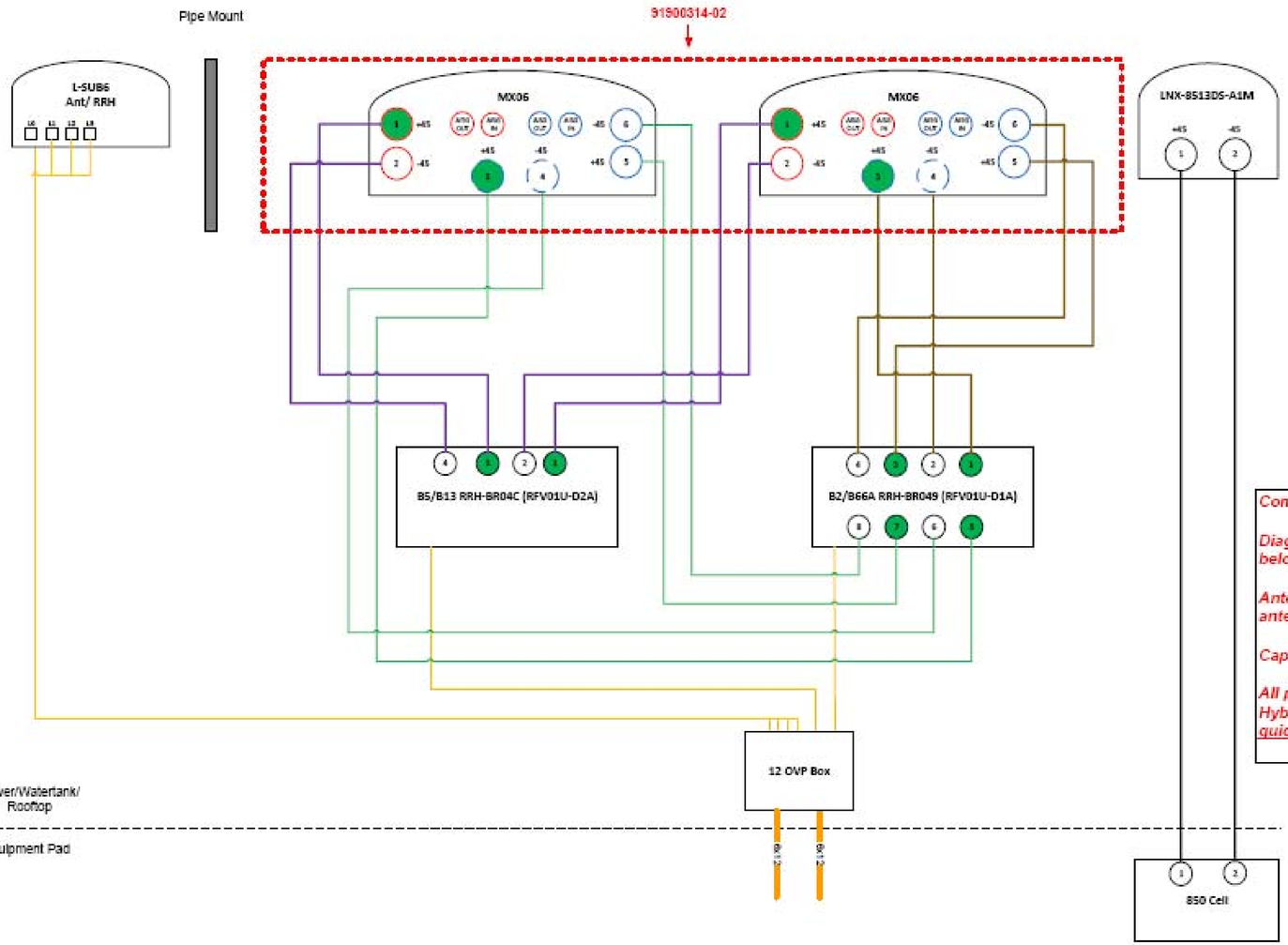
SHEET NUMBER: C-5
REVISION: 0

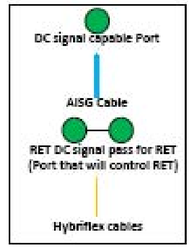
79153.001.01_876361_SEYMOUR 2–OXFORD TOWN GARAGE.dwg – Sheet:C-5 – User: mjones – Jun 30, 2022 – 9:59am



- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

RET DC signal pass for RET
(Port that will control RET)





Comments:

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from IN FRONT of antennas.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors quide above)

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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BU #: **876361**
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20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

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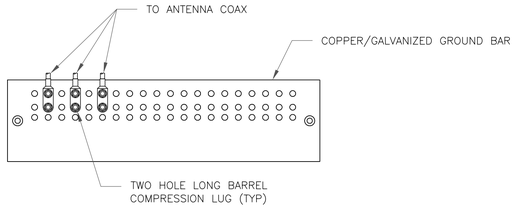
MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: C-6

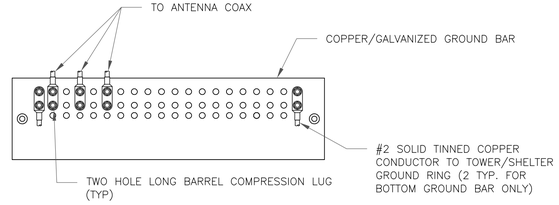
REVISION: 0



NOTES:

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

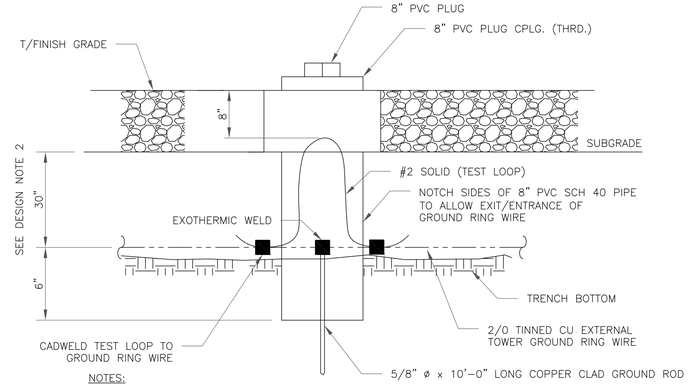
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

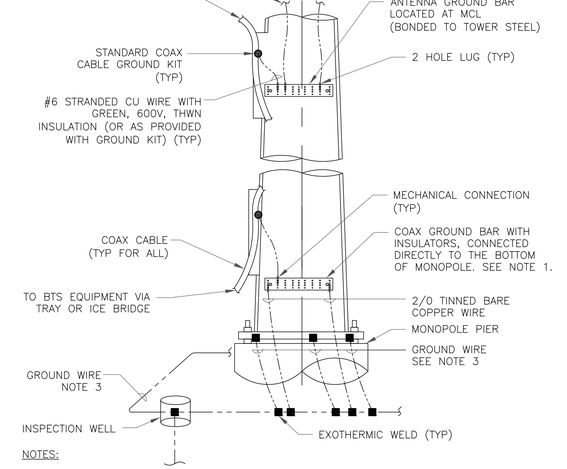
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

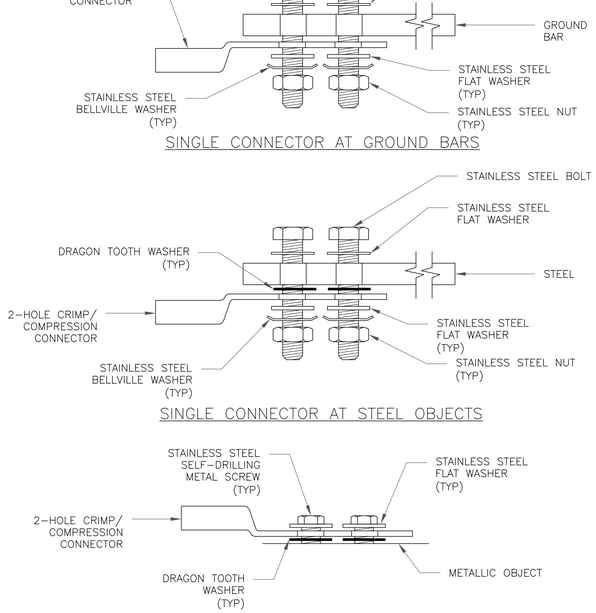
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



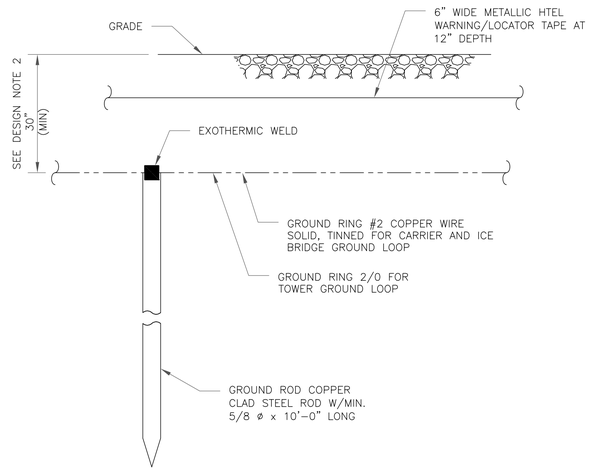
NOTES:

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

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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0	6/28/22	DAS	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
MICHAEL T. JONES
No. 23924
LICENSED PROFESSIONAL ENGINEER
6/28/22

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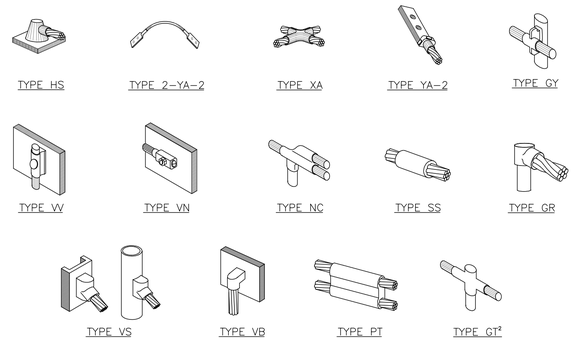
BER:2386985
Expires 3/31/23

SHEET NUMBER: G-1
REVISION: 0

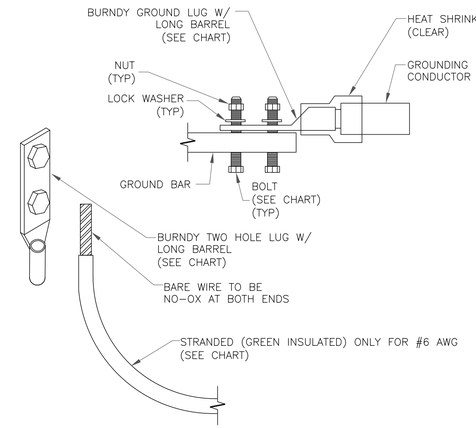


NOTE:

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

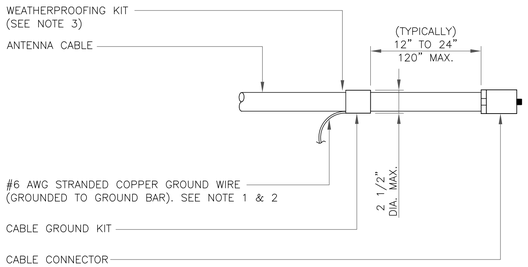
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



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.

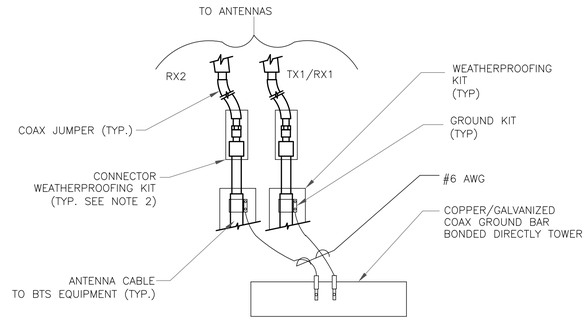
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



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.

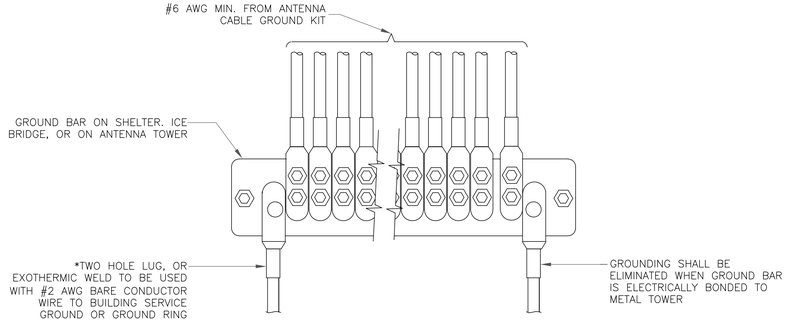
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



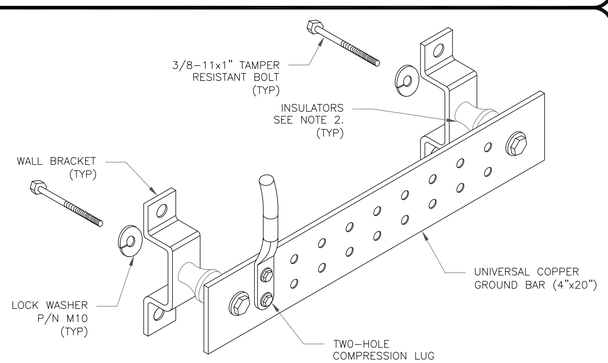
NOTES:

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



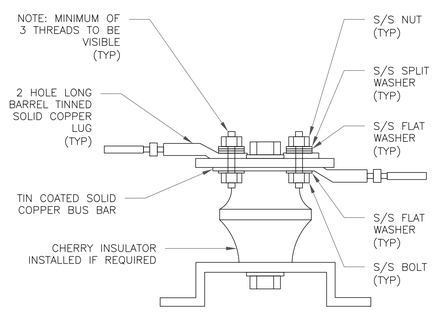
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



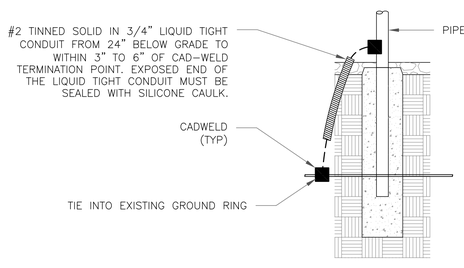
NOTES:

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

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

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

VERIZON SITE NUMBER:
467421

BU #: **876361**
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK ROAD
OXFORD, CT 06478

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	6/28/22	DAS	CONSTRUCTION	MTJ

MTS ENGINEERING P.L.L.C.
BER:2386985
Expires 3/31/23

SHEET NUMBER: G-2
REVISION: 0

MOUNT MODIFICATION DRAWINGS

verizon

FUZE ID: 16272032

SITE NAME:
OXFORD W CT

PSLC:
467421

ADDRESS:
20 GREAT OAK ROAD
OXFORD, CT 06478
NEW HAVEN COUNTY

LATTITUDE:
41.426358°

LATTITUDE:
-73.144247°

MOUNT CENTERLINE ELEVATION:
138'-6"±

FAILING MOUNT ANALYSIS

THE MOUNT MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE MOUNT ANALYSIS COMPLETED BY NB+C ENGINEERING SERVICES, LLC, SMART TOOL PROJECT NO. 10039592 DATED MAY 11, 2021.

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT NUMBER:	10070585
VZW LOCATION CODE (PSLC):	467421
FUZE PROJECT ID:	16272032

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

VZW APPROVED SMART KIT VENDORS

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

DRAWING INDEX

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

ENGINEER

NB+C TOTALLY COMMITTED™
NB+C ENGINEERING SERVICES, LLC.
1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

verizon

SITE INFORMATION

SITE NAME: OXFORD W CT
PSLC: 467421
NB+C JOB NO: 100820
SITE ADDRESS:
20 GREAT OAK ROAD
OXFORD, CT 06478
NEW HAVEN COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
0	06/11/21	MODIFICATION DRAWINGS	PHJ

PROFESSIONAL STAMP

STATE OF CONNECTICUT
KRUPAKARAN KOLANDAIVELU
LICENSED PROFESSIONAL ENGINEER
PEN.0028997

DocuSigned by:
krupakaran kolandaivelu
81AC599182D841D... 6/11/2021

ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

BILL OF MATERIALS

QUANTITY COUNTED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	SHEET LIST	PIECE WEIGHT (LBS)	WEIGHT (LBS)	NOTES
			MATERIAL & HARDWARE				
1	1	VZWSMART-PLK5	KICKER KIT	A1, VZW-1	291.0	291.0	GALVANIZED
1	1	VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY	A1, VZW-2	150.0	150.0	GALVANIZED
1	1	VZWSMART-PLK1	SUPPORT RAIL KIT	A1, VZW-3	504.0	504.0	GALVANIZED
12	12	VZWSMART-MSK1	CROSSOVER PLATE KIT	A1, VZW-4	14.0	168.0	GALVANIZED
			FOLLOWING ITEMS ARE "CUSTOM" PARTS				
3	3	-	2-1/2" SCH40 (2-7/8" O.D. X 8'-0") MOUNT PIPE (A53 Gr. B-35)	A1	46.4	139.2	GALVANIZED
6	6	-	5/8"Ø U-BOLT (A36 OR EQUIV.) W/ NUTS & LOCK WASHERS	A1	1.0	6.0	GALVANIZED, VIF, MATCH EXISTING
					TOTAL WEIGHT (LBS) =	1258.2	

VZW MOUNT MODIFICATION KITS - APPROVED VENDORS

PerfectVision		SitePro1		Metrosite Fabricators, LLC		CommScope		Sabre Industries Inc	
CONTACT:	Wireless Sales wirelesssales@perfect-vision.com	CONTACT:	Paula Boswell paula.boswell@valmont.com	CONTACT:	Kent Ramey kent@metrositellc.com	CONTACT:	Salvador Anguiano Salvador.Anguiano@commscope.com	CONTACT:	Angie Welch akwelch@sabreindustries.com
PHONE NUMBER:	844.887.6723	PHONE NUMBER:	972.236.9843	PHONE NUMBER:	(O) 706.335.7045 (M) 706.982.9788	PHONE NUMBER:	817.304.7492	PHONE NUMBER:	866.428.6937
WEBSITE:	www.perfect-vision.com	WEBSITE:	www.sitepro1.com	WEBSITE:	metrositefabricators.com	WEBSITE:	www.commscope.com	WEBSITE:	www.sabresitesolutions.com

THE MANUFACTURERS LISTED ARE THE ONLY APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATION.

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PROFESSIONAL STAMP

DocuSigned by:
krupakaran kolandaivelu
81AC599182D841D... 6/11/2021

ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE

BILL OF MATERIALS

SHEET NUMBER

BOM

GENERAL NOTES

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO NB+C ENGINEERING SERVICES, LLC. FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
3. INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO NB+C ENGINEERING SERVICES, LLC. PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE NB+C ENGINEERING SERVICES, LLC. APPROVAL.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
5. CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.
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 ASSP A10.48 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ASSP A10.48 AND ANSI/TIA-322 (LATEST EDITIONS) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE USE OF GAS TORCH OR WELDER ARE NOT ALLOWED ON ANY TOWER STRUCTURE WITHOUT THE CONSENT OF THE TOWER OWNER.

CONTRACTOR QUALIFICATION NOTES:

1. ALL REPAIRS SHALL BE PERFORMED BY A TOWER CONTRACTOR WITH A MINIMUM 5 YEARS EXPERIENCE IN TOWER ERECTION AND RETROFIT AND WITH WORKING KNOWLEDGE OF THE ANSI/TIA-222-H "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS AND SMALL WIND TURBINES"..
2. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, NB+C ENGINEERING SERVICES, LLC. IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
3. ALL SUBMITTAL INFORMATION MUST BE SENT TO PMI INSPECTOR. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM NB+C ENGINEERING SERVICES, LLC. WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS NB+C ENGINEERING SERVICES, LLC.
4. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE ASSP A10.48 AND ANSI/TIA-322 STANDARDS.

JOB SITE SAFETY & NOTES:

1. NEITHER THE PROFESSIONAL ACTIVITIES OF NB+C ENGINEERING SERVICES, LLC. NOR THE PRESENCE OF NB+C ENGINEERING SERVICES, LLC. OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTS THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.

COLD GALVANIZATION/SURFACE PREPARATION NOTES:

1. CONTRACTOR TO USE ZINGA COLD GALVANIZATION COMPOUNDS.
2. PREPARE RUSTED/CORRODED SURFACE FOR TREATMENT ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
3. CONTRACTOR TO APPLY (2) COATS OF COLD GALVANIZATION COMPOUND PER MANUFACTURER'S RECOMMENDATION. DRYING AND CURING TIMES MUST BE UTILIZED PER MANUFACTURER'S RECOMMENDATION.
4. APPLY ALL COATINGS BY BRUSH IN CALM WIND CONDITIONS. THE USE OF AEROSOL IS NOT PERMITTED.
5. IF THE TOWER IS PAINTED, BRUSH PAINT ALL TREATED AREAS TO MATCH TOWER AFTER COLD GALVANIZATION COMPOUND IS ALLOWED TO CURE.

STEEL :

1. ALL PROPOSED MEMBERS TO USE THE PREFERRED MATERIAL SPECIFICATION AS DEFINED BY THE AISC CODE AND ASTM SPECIFICATIONS.
2. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES E-70XX OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325N, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
3. ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC 15 PART 16.2, "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, SECTION 8.1, UNLESS OTHERWISE SPECIFIED. WHEN "X" TYPE BOLTS ARE USED, CONTRACTOR MAY BE REQUIRED TO STACK ADDITIONAL WASHERS TO OBTAIN PROPER SNUG TIGHT INSTALLATION. ALL NUTS SHALL BE HEAVY HEX UNLESS OTHERWISE NOTED.
4. ALL STEEL, AFTER FABRICATION, SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH MULTIPLE COATS OF ZRC COLD GALVANIZING COMPOUND ACHEIVING A MINIMUM OF 4 MILS DRY FILM PER ASTM A 780.
5. ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE NB+C ENGINEERING SERVICES, LLC. WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
6. STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.
7. ALL STEEL SHALL MEET OR EXCEED THE MINIMUM STRENGTH AS SPECIFIED IN THE DRAWINGS. IF YIELD STRENGTH WAS NOT NOTED IN THE DRAWINGS, CONTRACTORS SHALL CONTACT NB+C FOR DIRECTION.

MISC. NOTES:

1. ALL MODIFICATIONS ARE ASSUMED TO BE MADE ON AN EMPTY TOWER. CONTRACTOR IS RESPONSIBLE TO MAKE PROVISIONS TO SUPPORT OR WORK AROUND EXISTING ANTENNAS AND TRANSMISSION LINES. MODIFICATIONS MUST BE CONTINUOUS THROUGH ALL AREAS SHOWN.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

FABRICATION NOTES:

1. ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
2. NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION UNLESS OTHERWISE NOTED.

SUBSTITUTES AND/OR EQUALS:

1. IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER OF RECORD FOR ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IN SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AN ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION OF THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

FIELD HOT WORK PLAN NOTES:

1. ALL CONTRACTORS RESPONSIBILITY TO COMPLETE A HOT WORK PLAN IF AWARDED PER CUSTOMER SPECIFICATIONS GUIDELINES FOR WELDING, CUTTING & SPARK PRODUCING WORK.
2. HAVE A FIRE PLAN APPROVED BY THE CUSTOMER AND THEIR SAFETY MANAGEMENT DEPARTMENT.
3. CONTRACTOR MUST OBTAIN THE CONTACT INFO OF THE LOCAL FIRE DEPARTMENT AND THE 911 ADDRESS OF THE TOWER SITE BEFORE CONSTRUCTION.
4. CONTRACTOR SHALL MAKE SURE THAT CELL PHONE COVERAGE IS AVAILABLE IN THE TOWER SITE. IF CELL COVERAGE IS NOT AVAILABLE, AN IMMEDIATE AVAILABLE MEANS OF DIRECT COMMUNICATION WITH THE FIRE DEPARTMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION START.
5. ALL CONSTRUCTION SHALL BE PERFORMED UNDER WIND SPEED LESS THAN 10 MPH ON THE GROUND LEVEL. IF WIND SPEED INCREASES, CONTRACTOR MUST DETERMINE IF CONSTRUCTION SHALL BE DISCONTINUED.
6. FIRE SUPPRESSION EQUIPMENT MUST BE MADE AVAILABLE ON SITE AND READY TO USE.
7. CONTRACTOR SHALL ASSIGN A FIRE WATCHER TO PERFORM FIRE-FIGHTING DUTIES.
8. ALL WELDERS SHALL BE AWS OR STATE CERTIFIED. THEY MUST ALSO BE EXPERIENCED IN WELDING ON GALVANIZED MATERIALS.
9. IF IT IS POSSIBLE, ALL EXISTING COAX NEAR WELDING AREA SHALL BE TEMPORARILY MOVED AWAY FROM THE WELDING AREA BEFORE WELDING.
10. PLEASE REPORT ANY FIELD ISSUE TO NB+C @ 267-460-0122

ENGINEER

NB+C™ TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

verizon

SITE INFORMATION

SITE NAME: OXFORD W CT
PSLC: 467421
NB+C JOB NO: 100820
SITE ADDRESS:
20 GREAT OAK ROAD
OXFORD, CT 06478
NEW HAVEN COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
0	06/11/21	MODIFICATION DRAWINGS	PHJ

PROFESSIONAL STAMP

STATE OF CONNECTICUT
KRUPAKARAN KOLANDAIVELU
LICENSED PROFESSIONAL ENGINEER
PEN.0028997

DocuSigned by:
Krupakaran Kolandaivelu
81AC599182D8416...
6/11/2021

ENGINEER

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

N-1

POST MODIFICATION INSPECTION NOTES

GENERAL

1. THE POST MODIFICATION INSPECTION (PMI) IS A VISUAL INSPECTION OF MOUNT 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).

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

3. ALL PMI'S SHALL BE CONDUCTED BY A PMI INSPECTOR THAT IS APPROVED TO PERFORM ELEVATED WORK FOR NB+C ENGINEERING SERVICES, LLC.

4. TO ENSURE THAT THE REQUIREMENTS OF THE PMI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE PMI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR NB+C POINT OF CONTACT (POC).

CORRECTION OF FAILING PMI'S

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE GC SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

   - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINALCONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT PMI.
   - OR, WITH EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THEMODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS

1. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE THE FOLLOWING PHOTOGRAPHS AT A MINIMUM, AND TO INCLUDE IT IN THE PMI REPORT. REFER TO THE PMI REQUIREMENTS CHECKLIST IN THE MOUNT ANALYSIS PREPARED NY NB+C ES.

   - PRE-CONSTRUCTION GENERAL SITE CONDITION
     - SITE PLACE CARD WITH VERIZON SITE NAME
   - PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
     - RAW MATERIALS
     - PHOTOS OF ALL CRITICAL DETAILS
     - BOLT INSTALLATION AND TORQUE
     - FINAL INSTALLED CONDITION
     - SURFACE COATING REPAIR
     - PHOTOS SHALL HAVE MEASURING TAPES AND CALIPERS TO CONFIRM ALL DIMENSION RELATEDTO THE MODIFICATION.
     - PHOTOS SHALL IDENTIFY THE SECTOR AND MOUNT POSITIONS
     - COLD GALVANIZATION
   - POST CONSTRUCTION PHOTOGRAPHS
     - FINAL INFIELD CONDITION

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

3. PHOTOS WITH DATE,STAMP,AS-BUILT CD RED LINES, AND CHECKLIST ARE TO BE EMAILED TO VZWMOUNTS@NBCLLC.COM

4. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE PHOTOGRAPHS CONFIRM THE MOUNT MODIFICATION WAS COMPLETED PER THESE DRAWINGS, TO INCLUDE ALL DIMENSIONS AND CONNECTIONS OF MOUNT MEMBERS AND CONNECTIONS TO THE SUPPORTING STRUCTURE.

5. CONTRACTOR SHALL NOTIFY THE EOR OF ANY ISSUES THAT MAY AFFECT THE PERFORMANCE OF THE MOUNT, INCLUDING SAFETY ISSUES, VARIANCES IN LOADING CONDITIONS FROM THE CONSTRUCTION DRAWINGS, ETC.

6. AS-BUILT CD RED LINES SHALL INCLUDE CONTRACTOR'S NAME, PREPARE'S SIGNATURE, AND DATE.

POST MODIFICATION INSPECTION CHECKLIST

	PRE-CONSTRUCTION
N/A	EOR APPROVED SHOP DRAWINGS
X	FABRICATION INSPECTION
N/A	FABRICATOR CERTIFIED WELD INSPECTION
X	PACKING SLIPS
X	MATERIAL TEST REPORTS
X	PRE-INSTALLATION PHOTOGRAPHS
	CONSTRUCTION
X	CONSTRUCTION INSPECTION LETTER
N/A	CONTRACTOR'S CERTIFIED WELD INSPECTION
X	ON SITE COLD GALVANIZATION VERIFICATIONS
X	DURING INSTALLATION PHOTOGRAPHS
	POST-CONSTRUCTION
X	GC AS-BUILT DOCUMENTS
X	EOR APPROVALS
X	POST-INSTALLATION PHOTOGRAPHS

ENGINEER

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APPLICANT

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PROFESSIONAL STAMP

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PENGINEER
DocuSigned by: 28997
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6/11/2021

ENGINEER

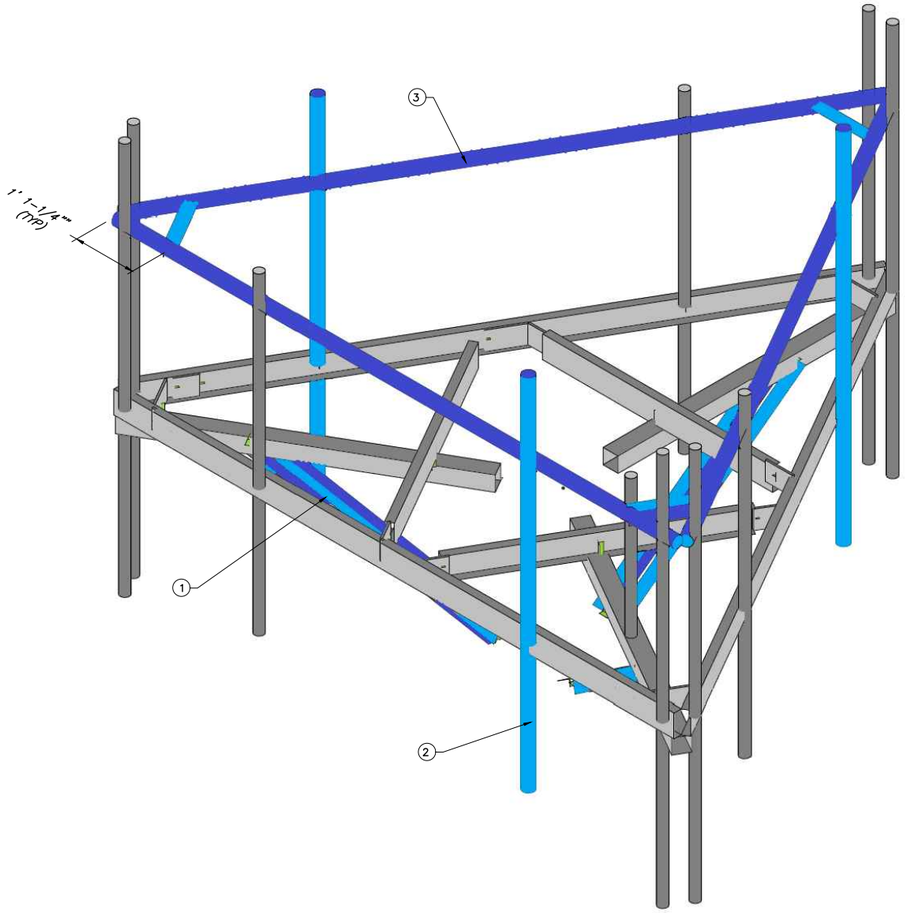
KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE

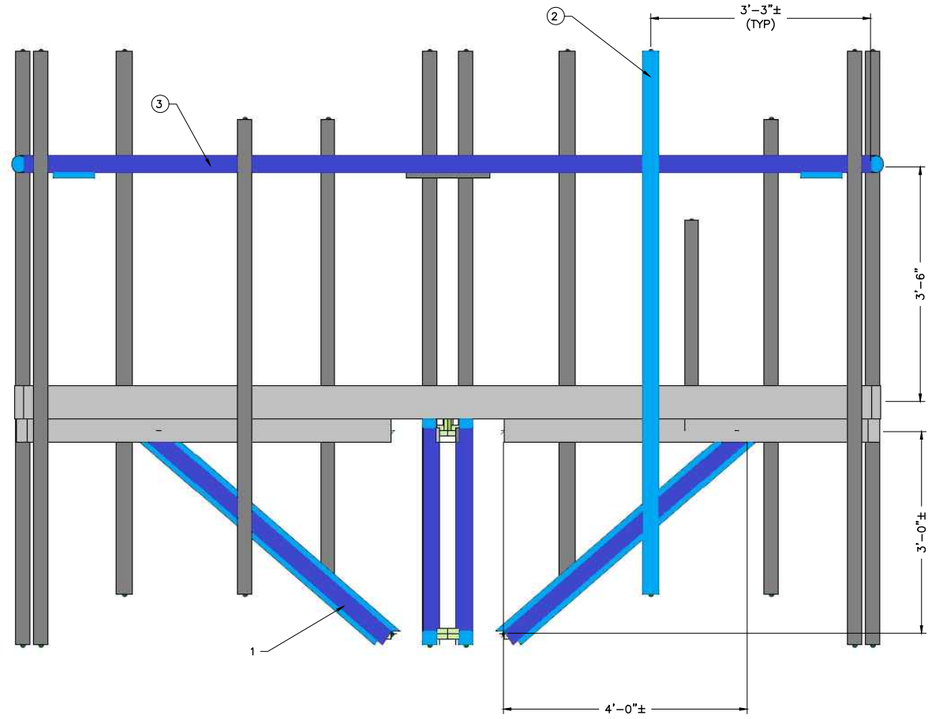
PMI CHECKLIST

SHEET NUMBER

N-2



1 A-1 MOUNT MODIFICATION - ISOMETRIC VIEW
SCALE: NTS



2 A-1 MOUNT MODIFICATION - FRONT VIEW
SCALE: NTS

MODIFICATION SCOPE

1. INSTALL (1) NEW VZWSMART-PLK5 KICKER KIT ASSEMBLY TO THE EXISTING PLATFORM MOUNT W/ NEW VZWSMART-PLK7 COLLAR MOUNT
2. REPLACE EXISTING MOUNT PIPES IN POSITION 2 WITH NEW 2-1/2" SCH40 (2-7/8" O.D. X 8'-0") MOUNT PIPE ON EACH SECTOR (3 SECTORS TOTAL)
3. INSTALL (1) NEW VZWSMART-PLK1 SUPPORT RAIL KIT TO THE EXISTING PLATFORM MOUNT

NOTES

1. APPURTENANCES MAY INTERFERE WITH PROPOSED MODIFICATIONS
2. ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT NOT TO BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION.
3. ANTENNA & COAX GRAPHICS NOT SHOWN FOR CLARITY. SEE MOUNT ANALYSIS REPORT FOR EXISTING ANTENNA LOADING & COAX CONFIGURATION.
4. CONTRACTOR TO FIELD VERIFY ALL LENGTHS AND QUANTITIES PRIOR TO MATERIAL ORDERS, FABRICATION, AND INSTALLATION.
5. IF EXISTING TOWER IS PAINTED CONTRACTOR TO VERIFY WITH TOWER OWNER IF NEW MODIFICATION MEMBERS ARE TO BE PAINTED TO MATCH EXISTING TOWER FINISHES.
6. **IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THERE ARE NO INTERFERENCES WITH SAFETY CLIMB BRACKETS, TRANSMISSION LINES, ETC. PRIOR TO MOBILIZATION AND INSTALLATION OF THESE MODIFICATIONS. PLEASE NOTIFY NB+C ES IMMEDIATELY IF ANY INSTALLATION ISSUES OCCUR RELATED TO THIS DRAWING.**
7. CONTRACTOR TO COORDINATE WITH CARRIER PRIOR TO MODIFICATION INSTALLATION TO DETERMINE IF EXISTING ANTENNAS NEED TO BE TURNED DOWN.
8. MEMBERS SHADED IN BLUE COLOR ARE NEW REINFORCEMENTS.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1A	VZWSMART-PLK5	1	KICKER KIT
1B	VZWSMART-PLK7	1	COLLAR KIT
2A	-	3	2-1/2" SCH40 (2-7/8" O.D. X 8'-0") MOUNT PIPE
2B	-	6	5/8"Ø U-BOLT (VIF, MATCH EXISTING)
3A	VZWSMART-PLK1	1	SUPPORT RAIL KIT
3B	VZWSMART-MSK1	12	CROSSOVER PLATE KIT

ENGINEER

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VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

verizon

SITE INFORMATION

SITE NAME: OXFORD W CT
PSLC: 467421
NB+C JOB NO: 100820
SITE ADDRESS:
20 GREAT OAK ROAD
OXFORD, CT 06478
NEW HAVEN COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
0	06/11/21	MODIFICATION DRAWINGS	PHJ

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STATE OF CONNECTICUT
KRUPAKARAN KOLANDAIVELU
PEN.0028997
PROFESSIONAL ENGINEER

DocuSigned by:
Krupakaran Kolandaivelu
81AC599182D841D...
6/11/2021

ENGINEER

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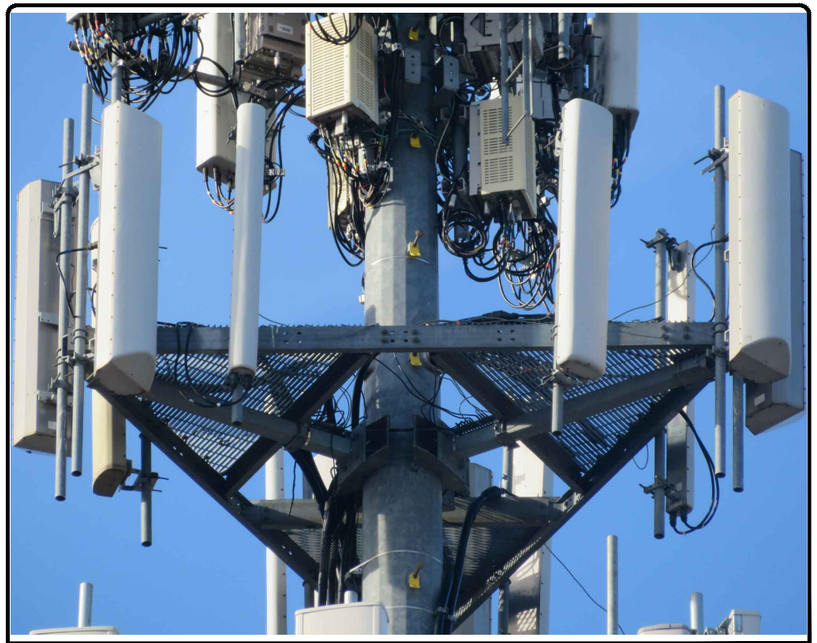
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE

MODIFICATION DETAILS

SHEET NUMBER

A-1



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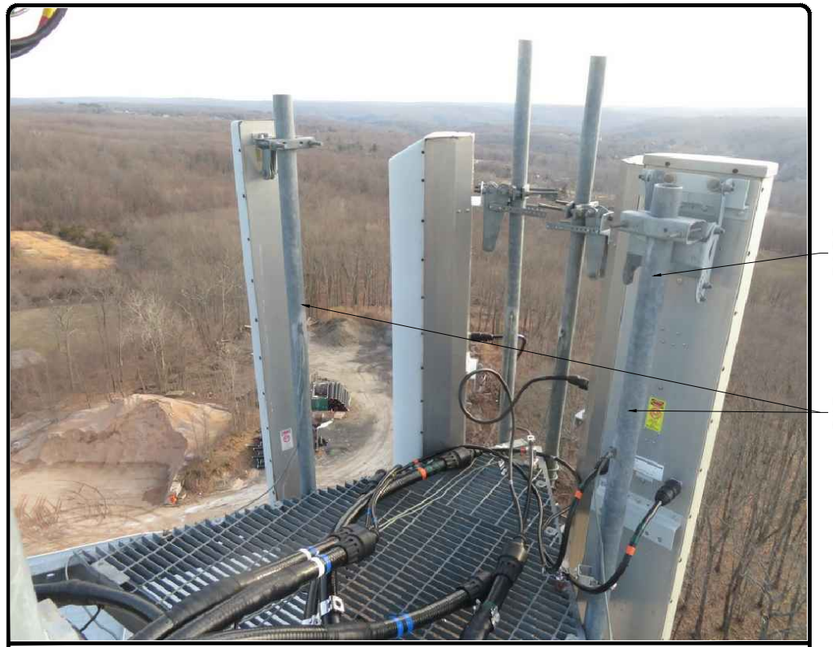

PHOTO 2

PHOTO 3

PHOTO 4

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6/11/2021

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STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

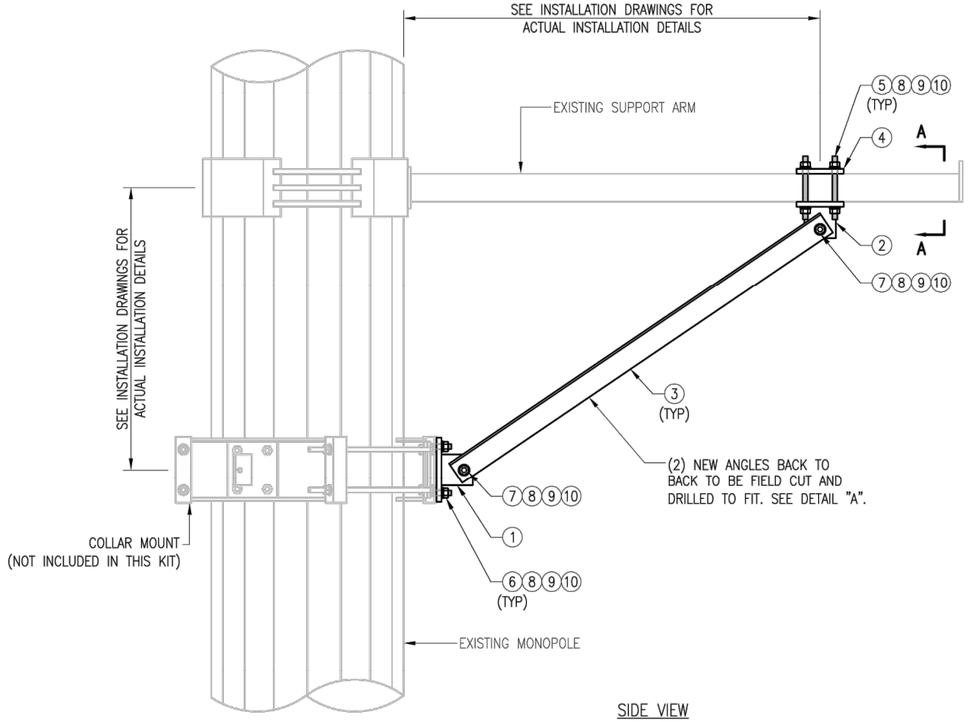
SHEET TITLE

ANTENNA MOUNT PHOTOS

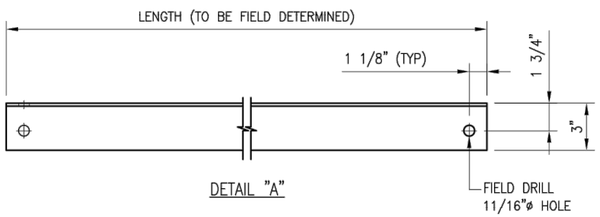
SHEET NUMBER

A-2

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



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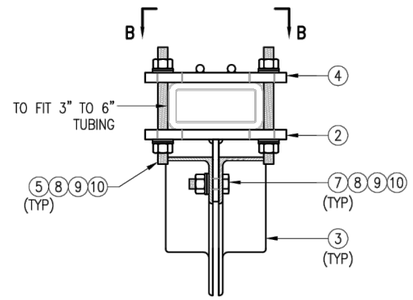
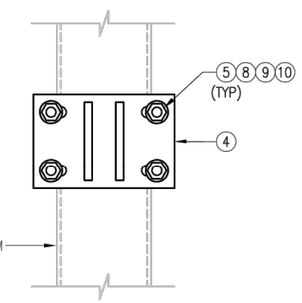


SECTION "A–A"
RECT. HSS MOUNTING



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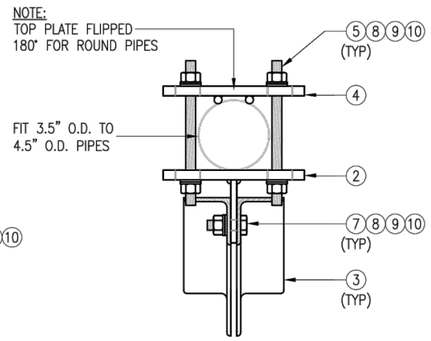

SECTION "A–A"
ROUND PIPE MOUNTING

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

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

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DRAWN BY: MN | CHECKED BY: HMA/KW

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

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5 | REV #: 0

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VEVA 17, SUITE 400
BLUE BELL, PA 19422
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APPLICANT
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SITE INFORMATION
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NB+C JOB NO: 100820
SITE ADDRESS:
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OXFORD, CT 06478
NEW HAVEN COUNTY

DESIGN RECORD
REVISIONS

REV	DATE	DESCRIPTION	BY
0	06/11/21	MODIFICATION DRAWINGS	PHJ

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6/11/2021

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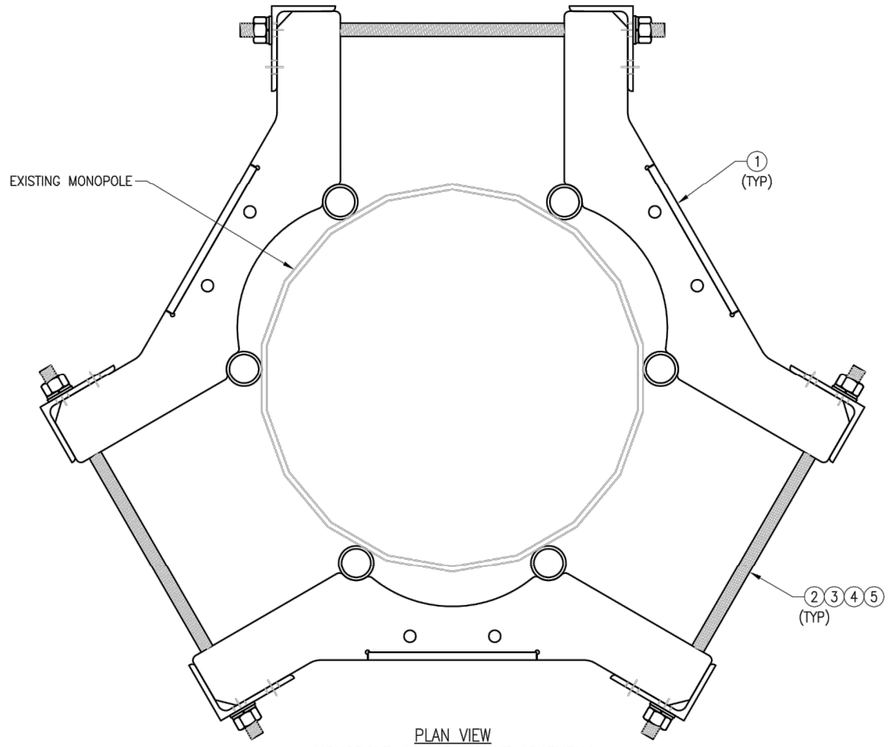
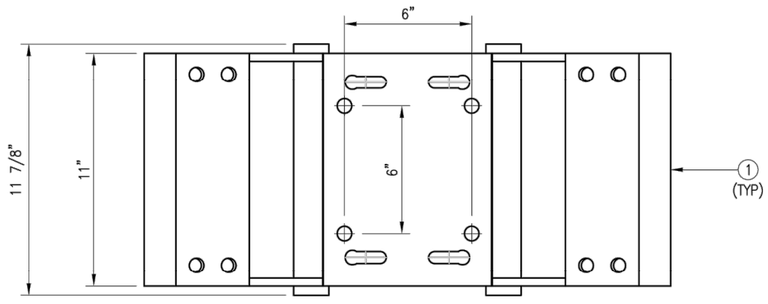
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE
VZWSMART-PLK5

SHEET NUMBER
VZW-1



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
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7 MONOPOLE COLLAR MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7 | REV #: 0

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BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

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NEW HAVEN COUNTY

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PEN.0028997
LICENSED PROFESSIONAL ENGINEER

DocuSigned by:
Krupakaran Kolandaivelu
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6/11/2021

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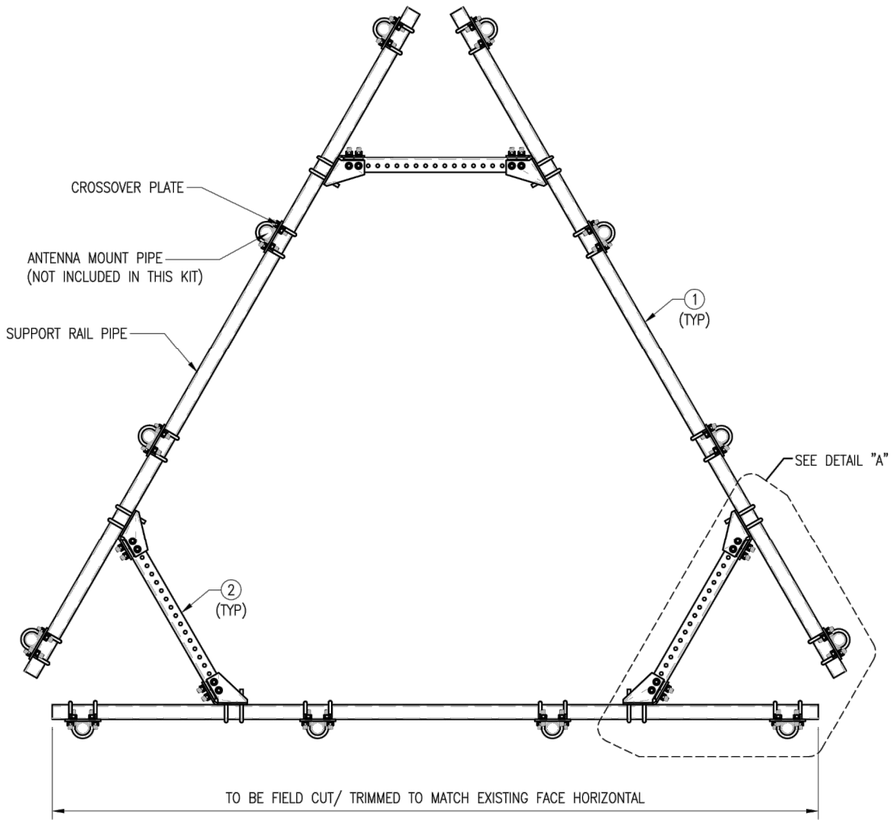
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE

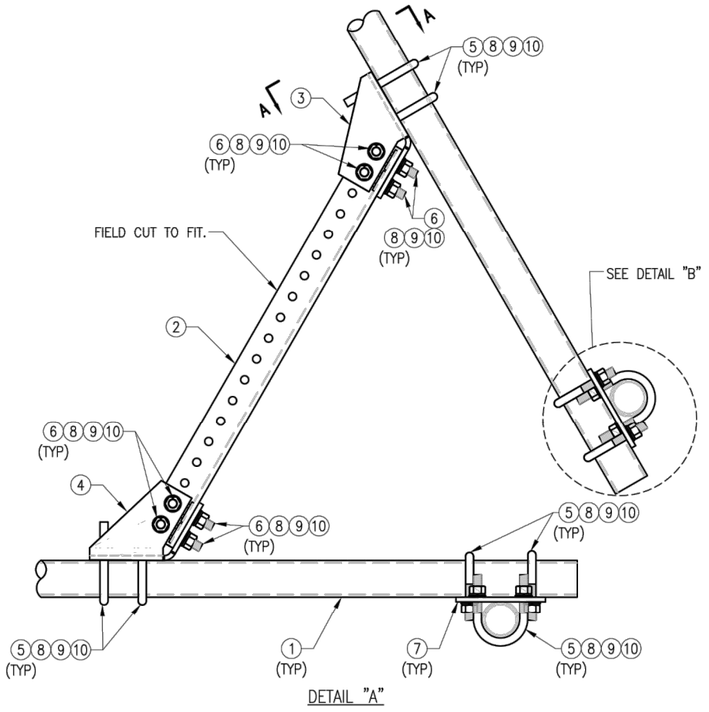
VZWSMART-PLK7

SHEET NUMBER

VZW-2



PLAN VIEW



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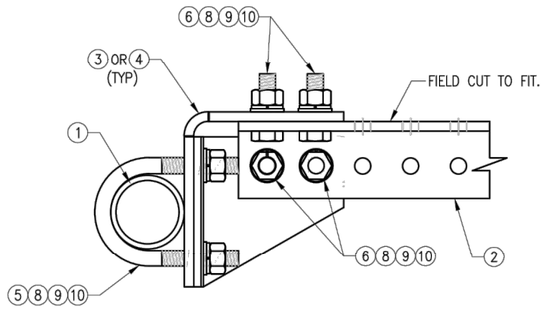

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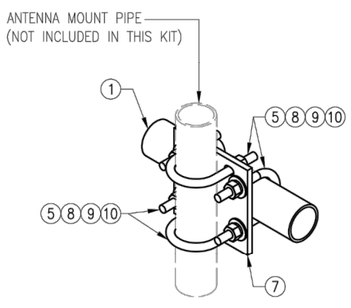

DETAIL "B"

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
1	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART–PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART–PLK1 | REV #: 0

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VEVA 17, SUITE 400
BLUE BELL, PA 19422
(267) 460-0122

APPLICANT

verizon

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STATE OF CONNECTICUT
KRUPAKARAN KOLANDAIVELU
PEN.0028997
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6/11/2021

ENGINEER

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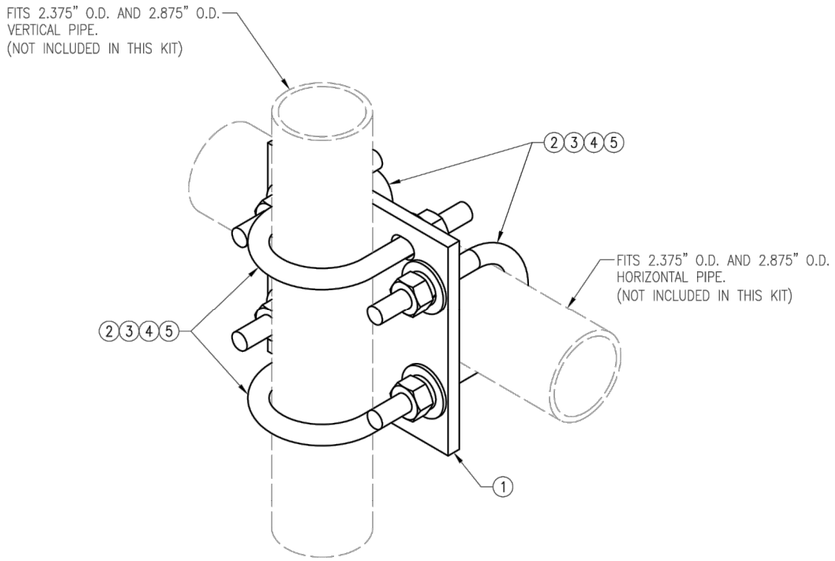
LICENSE #PEN.0028997

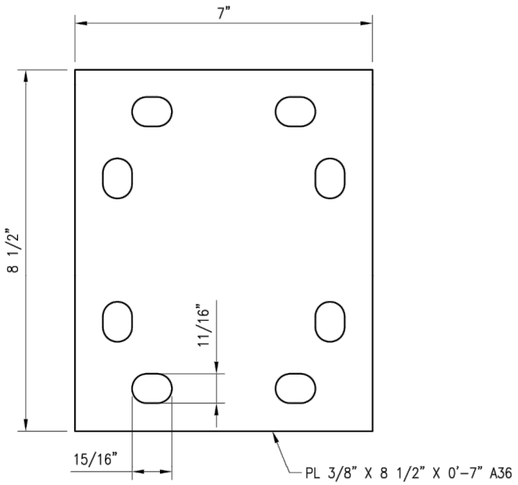
SHEET TITLE

VZWSMART-PLK1

SHEET NUMBER

VZW-3





PL375-857

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

VZWSMART-MSK1 (CROSSOVER PLATE)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

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DRAWN BY: H.R | CHECKED BY: HMA

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

SHEET TITLE:
VZWSMART-MSK1 CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1 | REV #: 0

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VEVA 17, SUITE 400
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APPLICANT
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PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

SHEET TITLE
VZWSMART-MSK1

SHEET NUMBER
VZW-4

Exhibit D

Structural Analysis Report

Date: **June 29, 2022**

MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	467421
	Site Name:	Oxford W CT
Crown Castle Designation:	**BU Number:**	876361
	Site Name:	Seymour 2 / Oxford Town Garage
	JDE Job Number:	723407
	Work Order Number:	2131735
	Order Number:	623938 Rev. 0
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN10-413R1 / 2200039	
Site Data:	**20 Great Oak Rd., Oxford, New Haven County, CT 06478** **Latitude *41° 25' 34.91"*, Longitude *-73° 8' 39.33"*** **150 Foot – EEI Monopole Tower**	

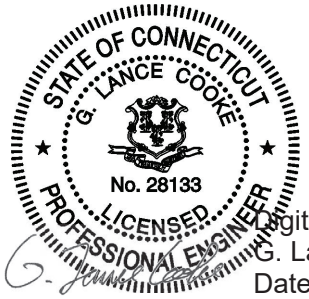
Morrison Hershfield is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

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

LC7: Proposed Equipment Configuration **Sufficient Capacity – 89.6%**

This analysis has been performed in accordance with the 2018 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 117 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:



G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer

Digitally signed by G. Lance Cooke
Date: 2022.06.29 08:38:20-07'00'

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 150 ft monopole tower designed by Engineered Endeavors, Inc.

The tower was modified per reinforcement drawings prepared by Paul J. Ford and Company, in October of 2012. Modification consists of installing shaft reinforcement from 0.5 ft to 120.5 ft and installing additional anchor rods. Per the post modification inspection completed by Tower Engineering Professionals, Inc., in April of 2013, these modifications were properly installed and are considered in this analysis.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 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)
140.0	140.0	6	jma wireless	MX06FRO660-03 w/ Mount Pipe	18	1-5/8
		3	antel	BXA-70063-6CF-2 w/ Mount Pipe		
		3	samsung telecommunications	MT6407-77A		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
		1	raycap	RVZDC-6627-PF-48		
		3	-	8' Pipe Mount [#P2.5 STD]		
		1	Site Pro 1	Collar Kit [#VZWSMART-PLK7]		
		1	Site Pro 1	Kicker Kit [#VZWSMART-PLK5]		
		1	Site Pro 1	Support Rail Kit [#VZWSMART-PLK1]		
		1	-	Platform Mount [LP 712-1]		

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)
150.0	150.0	3	rfs/celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	4	1-5/8
		3	rfs/celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
150.0	150.0	3	ericsson	RADIO 4415 B66A_CCIV3	-	-
		3	ericsson	RADIO 4424 B25_TMO		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		1	Site Pro 1	HD Top Rail Kit [#HRK12-3HD]		
		1	-	Platform Mount [LP 604-1]		
148.0	148.0	5	alcatel lucent	800MHZ RRH	-	-
		3	alcatel lucent	1900MHz RRH (65MHz)		
		3	alcatel lucent	800 EXTERNAL NOTCH FILTER		
		1	-	Pipe Mount [PM 601-3]		
130.0	131.0	4	kathrein	80010966 w/ Mount Pipe	12 4 2 1	1-1/4 3/4 3/8 2C
		2	kathrein	80010965 w/ Mount Pipe		
		2	andrew	SBNH-1D6565C w/ Mount Pipe		
		1	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 8843 B2/B66A		
		1	raycap	DC6-48-60-18-8C-EV		
		1	raycap	DC6-48-60-18-8F		
	130.0	1	-	Platform Mount [LP 305-1_HR-1]		
117.0	117.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		
85.0	86.0	1	lucent	KS24019-L112A	1	1/2
		1	lucent	KS24019-L112D		
	85.0	1	-	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1532984	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1447042	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1446979	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3354881	CCISITES
4-POST-MODIFICATION INSPECTION	3772404	CCISITES

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) 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. Morrison Hershfield should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	150 - 145	Pole	TP16.065x15x0.1875	Pole	11.4	Pass
L2	145 - 140	Pole	TP17.129x16.065x0.1875	Pole	20.5	Pass
L3	140 - 135	Pole	TP18.194x17.129x0.1875	Pole	36.0	Pass
L4	135 - 130	Pole	TP19.259x18.194x0.1875	Pole	48.5	Pass
L5	130 - 126.59	Pole	TP20.66x19.259x0.1875	Pole	60.7	Pass
L6	126.59 - 121.59	Pole	TP20.677x19.61x0.25	Pole	55.8	Pass
L7	121.59 - 117	Pole	TP21.656x20.677x0.25	Pole	62.8	Pass
L8	117 - 116.75	Pole + Reinf.	TP21.71x21.656x0.5625	Reinf. 6 Tension Rupture	44.0	Pass
L9	116.75 - 111.75	Pole + Reinf.	TP22.777x21.71x0.55	Reinf. 6 Tension Rupture	51.1	Pass
L10	111.75 - 106.75	Pole + Reinf.	TP23.844x22.777x0.5313	Reinf. 6 Tension Rupture	57.4	Pass
L11	106.75 - 101.75	Pole + Reinf.	TP24.911x23.844x0.5125	Reinf. 6 Tension Rupture	63.0	Pass
L12	101.75 - 96.75	Pole + Reinf.	TP25.978x24.911x0.5	Reinf. 6 Tension Rupture	67.9	Pass
L13	96.75 - 91.75	Pole + Reinf.	TP27.044x25.978x0.4875	Reinf. 6 Tension Rupture	72.3	Pass
L14	91.75 - 90.04	Pole + Reinf.	TP28.28x27.044x0.4875	Reinf. 6 Tension Rupture	73.6	Pass
L15	90.04 - 84.96	Pole + Reinf.	TP27.993x26.909x0.675	Reinf. 5 Tension Rupture	57.1	Pass
L16	84.96 - 79.96	Pole + Reinf.	TP29.06x27.993x0.6625	Reinf. 5 Tension Rupture	59.7	Pass
L17	79.96 - 74.96	Pole + Reinf.	TP30.126x29.06x0.6375	Reinf. 5 Tension Rupture	62.0	Pass
L18	74.96 - 69.96	Pole + Reinf.	TP31.193x30.126x0.625	Reinf. 5 Tension Rupture	64.2	Pass
L19	69.96 - 64.96	Pole + Reinf.	TP32.26x31.193x0.6125	Reinf. 5 Tension Rupture	66.1	Pass
L20	64.96 - 60.5	Pole + Reinf.	TP33.211x32.26x0.6	Reinf. 5 Tension Rupture	67.6	Pass
L21	60.5 - 60.25	Pole + Reinf.	TP33.264x33.211x0.6	Reinf. 4 Tension Rupture	67.7	Pass
L22	60.25 - 55.25	Pole + Reinf.	TP34.331x33.264x0.5875	Reinf. 4 Tension Rupture	69.2	Pass
L23	55.25 - 50.25	Pole + Reinf.	TP35.398x34.331x0.5875	Reinf. 4 Tension Rupture	70.6	Pass
L24	50.25 - 47.58	Pole + Reinf.	TP37.07x35.398x0.575	Reinf. 4 Tension Rupture	71.3	Pass
L25	47.58 - 41.41	Pole + Reinf.	TP36.659x35.342x0.6375	Reinf. 4 Tension Rupture	67.4	Pass
L26	41.41 - 36.41	Pole + Reinf.	TP37.727x36.659x0.625	Reinf. 4 Tension Rupture	68.2	Pass
L27	36.41 - 31.41	Pole + Reinf.	TP38.794x37.727x0.625	Reinf. 4 Tension Rupture	68.9	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L28	31.41 - 30.5	Pole + Reinf.	TP38.989x38.794x0.6125	Reinf. 4 Tension Rupture	69.0	Pass
L29	30.5 - 30.25	Pole + Reinf.	TP39.042x38.989x0.6125	Reinf. 3 Tension Rupture	69.0	Pass
L30	30.25 - 25.25	Pole + Reinf.	TP40.109x39.042x0.6125	Reinf. 3 Tension Rupture	69.6	Pass
L31	25.25 - 20.25	Pole + Reinf.	TP41.177x40.109x0.6	Reinf. 3 Tension Rupture	70.1	Pass
L32	20.25 - 18	Pole + Reinf.	TP41.657x41.177x0.6	Reinf. 3 Tension Rupture	70.3	Pass
L33	18 - 17.75	Pole + Reinf.	TP41.711x41.657x0.5563	Reinf. 1 Tension Rupture	72.3	Pass
L34	17.75 - 12.75	Pole + Reinf.	TP42.778x41.711x0.55	Reinf. 1 Tension Rupture	72.7	Pass
L35	12.75 - 7.75	Pole + Reinf.	TP43.845x42.778x0.55	Reinf. 1 Tension Rupture	73.0	Pass
L36	7.75 - 3.92	Pole + Reinf.	TP44.664x43.845x0.5375	Reinf. 1 Tension Rupture	73.2	Pass
L37	3.92 - 3.67	Pole + Reinf.	TP44.717x44.664x0.525	Reinf. 7 Tension Yield	72.1	Pass
L38	3.67 - 0	Pole + Reinf.	TP45.5x44.717x0.5125	Reinf. 7 Tension Yield	72.2	Pass
					Summary	
				Pole	62.8	Pass
				Reinforcement	73.6	Pass
				Overall	73.6	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	65.0	Pass
1	Base Plate		89.6	Pass
1	Base Foundation (Structure)	0	87.2	Pass
1	Base Foundation (Soil Interaction)		77.2	Pass

Structure Rating (max from all components) =	89.6%*

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

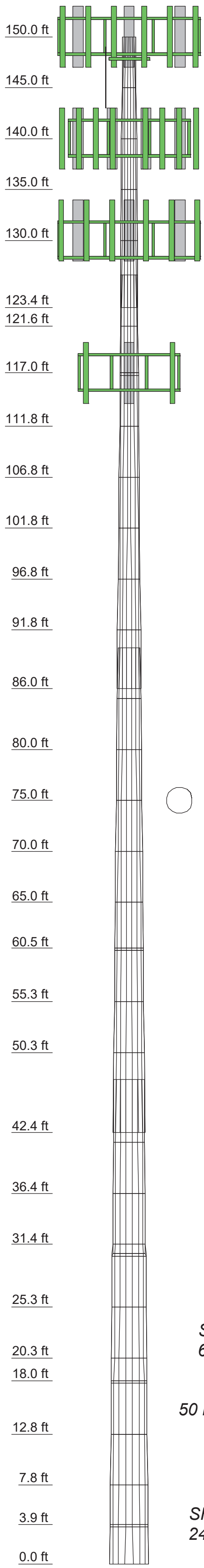
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.00	18	0.1875		15.0000	16.0647	A572-65	0.2
2	5.00	18	0.1875		16.0647	17.1294		0.2
3	5.00	18	0.1875		17.1294	18.1941		0.2
4	5.00	18	0.1875		18.1941	19.2588		0.2
5	6.58	18	0.1875	3.17	19.2588	20.6600		0.3
6	5.00	18	0.2500		[illegible]	[illegible]		0.3
7	4.59	18	[illegible]		[illegible]	[illegible]		0.3
8	0.25	18	[illegible]		[illegible]	[illegible]		0.0
9	5.00	18	[illegible]		[illegible]	[illegible]		0.6
10	5.00	18	0.5313		22.7767	23.8436		0.6
11	5.00	18	0.5125		23.8436	24.9106		0.6
12	5.00	18	0.5000		24.9106	25.9775		0.6
13	5.00	18	0.4875		25.9775	27.0445		0.6
14	[illegible]	18	0.4875	4.08	27.0445	28.2800		0.8
15		18	[illegible]		[illegible]	[illegible]		0.9
16	5.00	18	[illegible]		[illegible]	29.0597		0.9
17	5.00	18	0.6375		29.0597	30.1263		0.9
18	5.00	18	0.6250		30.1263	31.1929		0.9
19	5.00	18	0.6125		31.1929	32.2595		1.0
20	4.46	18	[illegible]		[illegible]	[illegible]		0.9
21	0.25	18	[illegible]		[illegible]	[illegible]		0.0
22	5.00	18	[illegible]		[illegible]	[illegible]		1.0
23	5.00	18	0.5875		34.3309	35.3975		1.0
24	[illegible]	18	0.5750	5.17	35.3975	37.0700		1.6
25		18	[illegible]		[illegible]	[illegible]		1.4
26	5.00	18	[illegible]		[illegible]	[illegible]		1.2
27	5.00	18	[illegible]		[illegible]	[illegible]		1.2
28	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
29	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
30	5.00	18	[illegible]		[illegible]	[illegible]		1.2
31	5.00	18	0.6000		[illegible]	[illegible]		1.2
32	[illegible]	18	[illegible]		[illegible]	[illegible]		0.6
33	[illegible]	18	[illegible]		[illegible]	[illegible]		[illegible]
34	5.00	18	[illegible]		[illegible]	[illegible]		1.3
35	5.00	18	0.5500		42.7780	43.8454		1.3
36	3.83	18	[illegible]		[illegible]	[illegible]		1.0
37	0.25	18	[illegible]		[illegible]	[illegible]		[illegible]
38	3.67	18	[illegible]		[illegible]	[illegible]		0.9
								26.2



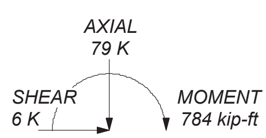
MATERIAL STRENGTH

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

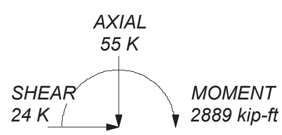
TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B 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 1.00 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 0.00 ft
8. CCIPOLE RATING: 73.6%

ALL REACTIONS ARE FACTORED



TORQUE 0 kip-ft
50 mph WIND - 1.0000 in ICE



TORQUE 0 kip-ft
REACTIONS - 117 mph WIND

Morrison Hershfield
Consulting Engineers
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
Phone: (770) 379-8500
FAX: (770) 379-8501

Job: **CN10-413R1 / 2200039**			
Project: **876361 / Seymour 2 / Oxford Town Garage**			
Client: Crown Castle USA	Drawn by: BB	App'd:	
Code: TIA-222-H	Date: 06/29/22	Scale: NTS	
Path:		Dwg No. E-1	

Tower Input Data

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

Tower is located in New Haven County, Connecticut.
Tower base elevation above sea level: 734.00 ft.
Basic wind speed of 117 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	*Elevation*	*Section Length*	*Splice Length*	*Number of Sides*	*Top Diameter*	*Bottom Diameter*	*Wall Thickness*	*Bend Radius*	*Pole Grade*
	ft	*ft*	*ft*		*in*	*in*	*in*	*in*	
L1	150.00-145.00	5.00	0.00	18	15.0000	16.0647	0.1875	0.7500	A572-65 (65 ksi)
L2	145.00-140.00	5.00	0.00	18	16.0647	17.1294	0.1875	0.7500	A572-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L3	140.00-135.00	5.00	0.00	18	17.1294	18.1941	0.1875	0.7500	(65 ksi) A572-65 (65 ksi)
L4	135.00-130.00	5.00	0.00	18	18.1941	19.2588	0.1875	0.7500	A572-65 (65 ksi)
L5	130.00-123.42	6.58	3.17	18	19.2588	20.6600	0.1875	0.7500	A572-65 (65 ksi)
L6	123.42-121.59	5.00	0.00	18	19.6100	20.6769	0.2500	1.0000	A572-65 (65 ksi)
L7	121.59-117.00	4.59	0.00	18	20.6769	21.6564	0.2500	1.0000	A572-65 (65 ksi)
L8	117.00-116.75	0.25	0.00	18	21.6564	21.7097	0.5625	2.2500	A572-65 (65 ksi)
L9	116.75-111.75	5.00	0.00	18	21.7097	22.7767	0.5500	2.2000	A572-65 (65 ksi)
L10	111.75-106.75	5.00	0.00	18	22.7767	23.8436	0.5313	2.1250	A572-65 (65 ksi)
L11	106.75-101.75	5.00	0.00	18	23.8436	24.9106	0.5125	2.0500	A572-65 (65 ksi)
L12	101.75-96.75	5.00	0.00	18	24.9106	25.9775	0.5000	2.0000	A572-65 (65 ksi)
L13	96.75-91.75	5.00	0.00	18	25.9775	27.0445	0.4875	1.9500	A572-65 (65 ksi)
L14	91.75-85.96	5.79	4.08	18	27.0445	28.2800	0.4875	1.9500	A572-65 (65 ksi)
L15	85.96-84.96	5.08	0.00	18	26.9094	27.9931	0.6750	2.7000	A572-65 (65 ksi)
L16	84.96-79.96	5.00	0.00	18	27.9931	29.0597	0.6625	2.6500	A572-65 (65 ksi)
L17	79.96-74.96	5.00	0.00	18	29.0597	30.1263	0.6375	2.5500	A572-65 (65 ksi)
L18	74.96-69.96	5.00	0.00	18	30.1263	31.1929	0.6250	2.5000	A572-65 (65 ksi)
L19	69.96-64.96	5.00	0.00	18	31.1929	32.2595	0.6125	2.4500	A572-65 (65 ksi)
L20	64.96-60.50	4.46	0.00	18	32.2595	33.2110	0.6000	2.4000	A572-65 (65 ksi)
L21	60.50-60.25	0.25	0.00	18	33.2110	33.2643	0.6000	2.4000	A572-65 (65 ksi)
L22	60.25-55.25	5.00	0.00	18	33.2643	34.3309	0.5875	2.3500	A572-65 (65 ksi)
L23	55.25-50.25	5.00	0.00	18	34.3309	35.3975	0.5875	2.3500	A572-65 (65 ksi)
L24	50.25-42.41	7.84	5.17	18	35.3975	37.0700	0.5750	2.3000	A572-65 (65 ksi)
L25	42.41-41.41	6.17	0.00	18	35.3421	36.6594	0.6375	2.5500	A572-65 (65 ksi)
L26	41.41-36.41	5.00	0.00	18	36.6594	37.7268	0.6250	2.5000	A572-65 (65 ksi)
L27	36.41-31.41	5.00	0.00	18	37.7268	38.7943	0.6250	2.5000	A572-65 (65 ksi)
L28	31.41-30.50	0.91	0.00	18	38.7943	38.9885	0.6125	2.4500	A572-65 (65 ksi)
L29	30.50-30.25	0.25	0.00	18	38.9885	39.0419	0.6125	2.4500	A572-65 (65 ksi)
L30	30.25-25.25	5.00	0.00	18	39.0419	40.1094	0.6125	2.4500	A572-65 (65 ksi)
L31	25.25-20.25	5.00	0.00	18	40.1094	41.1768	0.6000	2.4000	A572-65 (65 ksi)
L32	20.25-18.00	2.25	0.00	18	41.1768	41.6572	0.6000	2.4000	A572-65 (65 ksi)
L33	18.00-17.75	0.25	0.00	18	41.6572	41.7105	0.5563	2.2250	A572-65 (65 ksi)
L34	17.75-12.75	5.00	0.00	18	41.7105	42.7780	0.5500	2.2000	A572-65 (65 ksi)
L35	12.75-7.75	5.00	0.00	18	42.7780	43.8454	0.5500	2.2000	A572-65 (65 ksi)
L36	7.75-3.92	3.83	0.00	18	43.8454	44.6640	0.5375	2.1500	A572-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L37	3.92-3.67	0.25	0.00	18	44.6640	44.7173	0.5250	2.1000	A572-65 (65 ksi)
L38	3.67-0.00	3.67		18	44.7173	45.5000	0.5125	2.0500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	15.2025	8.8153	244.3603	5.2584	7.6200	32.0683	489.0422	4.4085	2.3100	12.32
	16.2836	9.4489	300.9319	5.6364	8.1609	36.8750	602.2598	4.7254	2.4974	13.319
L2	16.2836	9.4489	300.9319	5.6364	8.1609	36.8750	602.2598	4.7254	2.4974	13.319
	17.3647	10.0826	365.6231	6.0144	8.7017	42.0172	731.7272	5.0422	2.6848	14.319
L3	17.3647	10.0826	365.6231	6.0144	8.7017	42.0172	731.7272	5.0422	2.6848	14.319
	18.4459	10.7162	438.9783	6.3924	9.2426	47.4950	878.5342	5.3591	2.8722	15.318
L4	18.4459	10.7162	438.9783	6.3924	9.2426	47.4950	878.5342	5.3591	2.8722	15.318
	19.5270	11.3498	521.5421	6.7703	9.7835	53.3084	1043.7704	5.6760	3.0596	16.318
L5	19.5270	11.3498	521.5421	6.7703	9.7835	53.3084	1043.7704	5.6760	3.0596	16.318
	20.9498	12.1837	645.1464	7.2677	10.4953	61.4701	1291.1417	6.0930	3.3062	17.633
L6	20.5608	15.3621	727.4425	6.8728	9.9619	73.0227	1455.8422	7.6825	3.0114	12.045
	20.9573	16.2088	854.4629	7.2516	10.5039	81.3474	1710.0501	8.1059	3.1991	12.797
L7	20.9573	16.2088	854.4629	7.2516	10.5039	81.3474	1710.0501	8.1059	3.1991	12.797
	21.9519	16.9860	983.3637	7.5993	11.0014	89.3850	1968.0213	8.4946	3.3715	13.486
L8	21.9037	37.6605	2117.0758	7.4883	11.0014	192.4362	4236.9373	18.8338	2.8215	5.016
	21.9579	37.7557	2133.1790	7.5073	11.0285	193.4235	4269.1649	18.8815	2.8309	5.033
L9	21.9598	36.9385	2089.4759	7.5117	11.0285	189.4607	4181.7012	18.4728	2.8529	5.187
	23.0432	38.8011	2421.7579	7.8905	11.5706	209.3036	4846.7024	19.4042	3.0407	5.529
L10	23.0461	37.5100	2345.1229	7.8971	11.5706	202.6803	4693.3315	18.7585	3.0737	5.786
	24.1295	39.3090	2699.0005	8.2759	12.1126	222.8266	5401.5525	19.6583	3.2615	6.139
L11	24.1324	37.9522	2610.0293	8.2825	12.1126	215.4812	5223.4929	18.9797	3.2945	6.428
	25.2158	39.6877	2984.7294	8.6613	12.6546	235.8617	5973.3861	19.8476	3.4823	6.795
L12	25.2177	38.7396	2916.4090	8.6658	12.6546	230.4629	5836.6555	19.3735	3.5043	7.009
	26.3011	40.4328	3315.7827	9.0445	13.1966	251.2607	6635.9283	20.2203	3.6920	7.384
L13	26.3031	39.4414	3237.6489	9.0490	13.1966	245.3399	6479.5579	19.7244	3.7140	7.619
	27.3865	41.0923	3661.4636	9.4277	13.7386	266.5094	7327.7450	20.5500	3.9018	8.004
L14	27.3865	41.0923	3661.4636	9.4277	13.7386	266.5094	7327.7450	20.5500	3.9018	8.004
	28.6411	43.0040	4196.6412	9.8663	14.3662	292.1183	8398.8044	21.5061	4.1193	8.45
L15	28.1041	56.2058	4887.1993	9.3132	13.6700	357.5138	9780.8293	28.1083	3.5480	5.256
	28.3208	58.5276	5518.2014	9.6979	14.2205	388.0463	11043.6637	29.2693	3.7388	5.539
L16	28.3227	57.4700	5423.4505	9.7023	14.2205	381.3833	10854.0373	28.7405	3.7608	5.677
	29.4058	59.7129	6083.5317	10.0810	14.7623	412.0987	12175.0683	29.8621	3.9485	5.96
L17	29.4096	57.5101	5869.4391	10.0899	14.7623	397.5961	11746.6013	28.7605	3.9925	6.263
	30.4927	59.6684	6555.3485	10.4685	15.3042	428.3377	13119.3227	29.8399	4.1802	6.557
L18	30.4946	58.5232	6434.9885	10.4730	15.3042	420.4732	12878.4443	29.2672	4.2022	6.724
	31.5777	60.6391	7158.4998	10.8516	15.8460	451.7543	14326.4189	30.3253	4.3900	7.024
L19	31.5796	59.4506	7023.9395	10.8560	15.8460	443.2625	14057.1214	29.7310	4.4120	7.203
	32.6627	61.5242	7784.8411	11.2347	16.3878	475.0375	15579.9257	30.7680	4.5997	7.51
L20	32.6646	60.2924	7635.0067	11.2391	16.3878	465.8945	15280.0597	30.1519	4.6217	7.703
	33.6307	62.1043	8344.2365	11.5769	16.8712	494.5855	16699.4525	31.0581	4.7891	7.982
L21	33.6307	62.1043	8344.2365	11.5769	16.8712	494.5855	16699.4525	31.0581	4.7891	7.982
	33.6849	62.2059	8385.2412	11.5958	16.8983	496.2191	16781.5160	31.1089	4.7985	7.998
L22	33.6868	60.9332	8219.9784	11.6003	16.8983	486.4393	16450.7728	30.4724	4.8205	8.205

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
	34.7699	62.9222	9051.4769	11.9789	17.4401	519.0035	18114.8639	31.4671	5.0082	8.525
L23	34.7699	62.9222	9051.4769	11.9789	17.4401	519.0035	18114.8639	31.4671	5.0082	8.525
	35.8530	64.9111	9937.2394	12.3576	17.9819	552.6230	19887.5546	32.4617	5.1960	8.844
L24	35.8549	63.5529	9736.2900	12.3620	17.9819	541.4480	19485.3912	31.7825	5.2180	9.075
	37.5532	66.6052	11207.5922	12.9557	18.8316	595.1494	22429.9317	33.3089	5.5123	9.587
L25	36.9098	70.2222	10685.2877	12.3201	17.9538	595.1549	21384.6353	35.1178	5.0982	7.997
	37.1265	72.8875	11948.7550	12.7878	18.6230	641.6145	23913.2324	36.4507	5.3300	8.361
L26	37.1285	71.4831	11726.6650	12.7922	18.6230	629.6889	23468.7603	35.7484	5.3520	8.563
	38.2124	73.6007	12799.9861	13.1711	19.1652	667.8759	25616.8148	36.8073	5.5399	8.864
L27	38.2124	73.6007	12799.9861	13.1711	19.1652	667.8759	25616.8148	36.8073	5.5399	8.864
	39.2963	75.7183	13936.8796	13.5501	19.7075	707.1872	27892.0976	37.8663	5.7278	9.164
L28	39.2982	74.2282	13671.5650	13.5545	19.7075	693.7246	27361.1194	37.1212	5.7498	9.387
	39.4955	74.6059	13881.3197	13.6235	19.8062	700.8582	27780.9049	37.3100	5.7840	9.443
L29	39.4955	74.6059	13881.3197	13.6235	19.8062	700.8582	27780.9049	37.3100	5.7840	9.443
	39.5497	74.7097	13939.3180	13.6424	19.8333	702.8243	27896.9777	37.3619	5.7934	9.459
L30	39.5497	74.7097	13939.3180	13.6424	19.8333	702.8243	27896.9777	37.3619	5.7934	9.459
	40.6336	76.7849	15133.4588	14.0214	20.3756	742.7262	30286.8306	38.3997	5.9812	9.765
L31	40.6356	75.2416	14838.6923	14.0258	20.3756	728.2595	29696.9097	37.6280	6.0032	10.005
	41.7195	77.2745	16074.2032	14.4048	20.9178	768.4454	32169.5573	38.6446	6.1911	10.319
L32	41.7195	77.2745	16074.2032	14.4048	20.9178	768.4454	32169.5573	38.6446	6.1911	10.319
	42.2072	78.1893	16651.8539	14.5753	21.1618	786.8811	33325.6187	39.1021	6.2757	10.459
L33	42.2140	72.5652	15487.0593	14.5908	21.1618	731.8389	30994.4969	36.2895	6.3527	11.421
	42.2682	72.6594	15547.4711	14.6098	21.1890	733.7536	31115.3999	36.3366	6.3621	11.437
L34	42.2691	71.8540	15379.7853	14.6120	21.1890	725.8397	30779.8078	35.9338	6.3731	11.587
	43.3531	73.7174	16607.6589	14.9909	21.7312	764.2304	33237.1705	36.8657	6.5609	11.929
L35	43.3531	73.7174	16607.6589	14.9909	21.7312	764.2304	33237.1705	36.8657	6.5609	11.929
	44.4370	75.5809	17899.2056	15.3699	22.2735	803.6104	35821.9633	37.7976	6.7488	12.271
L36	44.4389	73.8844	17507.5607	15.3743	22.2735	786.0269	35038.1583	36.9492	6.7708	12.597
	45.2701	75.2809	18519.1230	15.6649	22.6893	816.2052	37062.6140	37.6476	6.9149	12.865
L37	45.2720	73.5510	18103.8222	15.6693	22.6893	797.9014	36231.4659	36.7825	6.9369	13.213
	45.3262	73.6399	18169.5749	15.6883	22.7164	799.8436	36363.0577	36.8270	6.9463	13.231
L38	45.3281	71.9069	17752.0211	15.6927	22.7164	781.4624	35527.4008	35.9603	6.9683	13.597
	46.1228	73.1800	18711.7248	15.9706	23.1140	809.5407	37448.0710	36.5970	7.1060	13.865

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft^2	in					in	in	in
L1 150.00-145.00				1	1	1			
L2 145.00-140.00				1	1	1			
L3 140.00-135.00				1	1	1			
L4 135.00-130.00				1	1	1			
L5 130.00-123.42				1	1	1			
L6 123.42-121.59				1	1	1			
L7 121.59-117.00				1	1	1			
L8 117.00-116.75				1	1	0.899967			
L9 116.75-111.75				1	1	0.897539			
L10 111.75-106.75				1	1	0.90748			
L11 106.75-101.75				1	1	0.920153			
L12 101.75-96.75				1	1	0.924135			
L13 96.75-91.75				1	1	0.929908			
L14 91.75-85.96				1	1	0.924255			
L15 85.96-84.96				1	1	0.903276			
L16 84.96-79.96				1	1	0.903064			
L17 79.96-74.96				1	1	0.921468			
L18 74.96-69.96				1	1	0.924163			
L19 69.96-64.96				1	1	0.928064			
L20 64.96-60.50				1	1	0.93459			
L21 60.50-60.25				1	1	0.933914			
L22 60.25-55.25				1	1	0.940096			
L23 55.25-50.25				1	1	0.927589			
L24 50.25-42.41				1	1	0.940913			
L25 42.41-41.41				1	1	0.941154			
L26 41.41-36.41				1	1	0.949297			
L27 36.41-31.41				1	1	0.939528			
L28 31.41-30.50				1	1	0.956636			
L29 30.50-30.25				1	1	0.956158			
L30 30.25-25.25				1	1	0.946863			
L31 25.25-20.25				1	1	0.957305			
L32 20.25-18.00				1	1	0.953417			
L33 18.00-17.75				1	1	1.02685			
L34 17.75-				1	1	1.02935			

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
12.75									
L35 12.75-7.75				1	1	1.02078			
L36 7.75-3.92				1	1	1.03779			
L37 3.92-3.67				1	1	1.00317			
L38 3.67-0.00				1	1	1.0222			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
******										
Climbing Pegs	B	No	Surface Ar (CaAa)	150.00 - 0.00	1	1	-0.150 0.150	0.7050		1.80
Safety Line 3/8	B	No	Surface Ar (CaAa)	150.00 - 0.00	1	1	0.000 0.000	0.3750		0.22
***										
HB158-21U6S24-xxM_TMO(1-5/8)	A	No	Surface Ar (CaAa)	150.00 - 0.00	4	4	0.200 0.300	1.9960		2.50
******										
LDF7-50A(1-5/8)	C	No	Surface Ar (CaAa)	140.00 - 0.00	6	6	0.000 0.300	1.9800		0.82
******										
CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	117.00 - 0.00	1	1	-0.250 -0.250	1.6000		2.35
******										
LDF4-50A(1/2)	B	No	Surface Ar (CaAa)	85.00 - 0.00	2	2	-0.420 -0.400	0.6250		0.15
******										
MP3-06	A	No	Surface Af (CaAa)	90.50 - 0.00	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-06	B	No	Surface Af (CaAa)	90.50 - 0.00	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-06	C	No	Surface Af (CaAa)	90.50 - 15.50	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-06	C	No	Surface Af (CaAa)	20.50 - 0.00	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-05	A	No	Surface Af (CaAa)	118.00 - 88.00	1	1	0.000 0.000	5.3300	14.8400	0.00
MP3-05	B	No	Surface Af (CaAa)	118.00 - 88.00	1	1	0.000 0.000	5.3300	14.8400	0.00
MP3-05	C	No	Surface Af (CaAa)	118.00 - 88.00	1	1	0.000 0.000	5.3300	14.8400	0.00
******										

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 plf
******									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	140.00 - 0.00	10	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
***									
HB158-U12S24-XXX-LI(1-5/8)	C	No	No	Inside Pole	140.00 - 0.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	3.20 3.20 3.20
******									

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF6-50A(1-1/4)	A	No	No	Inside Pole	130.00 - 0.00	12	No Ice	0.00	0.60
							1/2" Ice	0.00	0.60
							1" Ice	0.00	0.60
FB-L98B-002-75000(3/8)	A	No	No	Inside Pole	130.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
FB-L98B-034-XXX(3/8)	A	No	No	Inside Pole	130.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
WR-VG86ST-BRD(3/4)	A	No	No	Inside Pole	130.00 - 0.00	4	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
CONDUIT(2)	A	No	No	Inside Pole	130.00 - 0.00	1	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
******									

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	150.00-145.00	A	0.000	0.000	3.992	0.000	0.05
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L2	145.00-140.00	A	0.000	0.000	3.992	0.000	0.05
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L3	140.00-135.00	A	0.000	0.000	3.992	0.000	0.05
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	5.940	0.000	0.10
L4	135.00-130.00	A	0.000	0.000	3.992	0.000	0.05
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	5.940	0.000	0.10
L5	130.00-123.42	A	0.000	0.000	5.253	0.000	0.13
		B	0.000	0.000	0.711	0.000	0.01
		C	0.000	0.000	7.817	0.000	0.13
L6	123.42-121.59	A	0.000	0.000	1.461	0.000	0.04
		B	0.000	0.000	0.198	0.000	0.00
		C	0.000	0.000	2.174	0.000	0.04
L7	121.59-117.00	A	0.000	0.000	4.553	0.000	0.09
		B	0.000	0.000	1.384	0.000	0.01
		C	0.000	0.000	6.341	0.000	0.09
L8	117.00-116.75	A	0.000	0.000	0.422	0.000	0.00
		B	0.000	0.000	0.289	0.000	0.00
		C	0.000	0.000	0.519	0.000	0.00
L9	116.75-111.75	A	0.000	0.000	8.434	0.000	0.10
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.10
L10	111.75-106.75	A	0.000	0.000	8.434	0.000	0.10
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.10
L11	106.75-101.75	A	0.000	0.000	8.434	0.000	0.10
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.10
L12	101.75-96.75	A	0.000	0.000	8.434	0.000	0.10
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.10
L13	96.75-91.75	A	0.000	0.000	8.434	0.000	0.10
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.10
L14	91.75-85.96	A	0.000	0.000	13.167	0.000	0.12
		B	0.000	0.000	10.096	0.000	0.03
		C	0.000	0.000	15.423	0.000	0.11
L15	85.96-84.96	A	0.000	0.000	1.947	0.000	0.02

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	1.421	0.000	0.00
		C	0.000	0.000	2.336	0.000	0.02
L16	84.96-79.96	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L17	79.96-74.96	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L18	74.96-69.96	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L19	69.96-64.96	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L20	64.96-60.50	A	0.000	0.000	8.682	0.000	0.09
		B	0.000	0.000	6.874	0.000	0.02
		C	0.000	0.000	10.420	0.000	0.09
L21	60.50-60.25	A	0.000	0.000	0.487	0.000	0.00
		B	0.000	0.000	0.385	0.000	0.00
		C	0.000	0.000	0.584	0.000	0.00
L22	60.25-55.25	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L23	55.25-50.25	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L24	50.25-42.41	A	0.000	0.000	15.262	0.000	0.16
		B	0.000	0.000	12.084	0.000	0.04
		C	0.000	0.000	18.317	0.000	0.15
L25	42.41-41.41	A	0.000	0.000	1.947	0.000	0.02
		B	0.000	0.000	1.541	0.000	0.00
		C	0.000	0.000	2.336	0.000	0.02
L26	41.41-36.41	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L27	36.41-31.41	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L28	31.41-30.50	A	0.000	0.000	1.772	0.000	0.02
		B	0.000	0.000	1.403	0.000	0.00
		C	0.000	0.000	2.126	0.000	0.02
L29	30.50-30.25	A	0.000	0.000	0.487	0.000	0.00
		B	0.000	0.000	0.385	0.000	0.00
		C	0.000	0.000	0.584	0.000	0.00
L30	30.25-25.25	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L31	25.25-20.25	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.969	0.000	0.10
L32	20.25-18.00	A	0.000	0.000	4.380	0.000	0.04
		B	0.000	0.000	3.468	0.000	0.01
		C	0.000	0.000	7.840	0.000	0.04
L33	18.00-17.75	A	0.000	0.000	0.487	0.000	0.00
		B	0.000	0.000	0.385	0.000	0.00
		C	0.000	0.000	0.871	0.000	0.00
L34	17.75-12.75	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	14.265	0.000	0.10
L35	12.75-7.75	A	0.000	0.000	9.734	0.000	0.10
		B	0.000	0.000	7.707	0.000	0.02
		C	0.000	0.000	11.682	0.000	0.10
L36	7.75-3.92	A	0.000	0.000	7.464	0.000	0.08
		B	0.000	0.000	5.909	0.000	0.02
		C	0.000	0.000	8.958	0.000	0.07
L37	3.92-3.67	A	0.000	0.000	0.487	0.000	0.00
		B	0.000	0.000	0.385	0.000	0.00
		C	0.000	0.000	0.584	0.000	0.00
L38	3.67-0.00	A	0.000	0.000	7.137	0.000	0.07

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	5.651	0.000	0.02
		C	0.000	0.000	8.565	0.000	0.07

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	150.00-145.00	A	0.987	0.000	0.000	6.224	0.000	0.10
		B		0.000	0.000	2.515	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L2	145.00-140.00	A	0.984	0.000	0.000	6.220	0.000	0.10
		B		0.000	0.000	2.508	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L3	140.00-135.00	A	0.980	0.000	0.000	6.215	0.000	0.10
		B		0.000	0.000	2.501	0.000	0.03
		C		0.000	0.000	8.650	0.000	0.16
L4	135.00-130.00	A	0.977	0.000	0.000	6.211	0.000	0.10
		B		0.000	0.000	2.493	0.000	0.03
		C		0.000	0.000	8.646	0.000	0.16
L5	130.00-123.42	A	0.972	0.000	0.000	8.166	0.000	0.19
		B		0.000	0.000	3.270	0.000	0.04
		C		0.000	0.000	11.371	0.000	0.21
L6	123.42-121.59	A	0.969	0.000	0.000	2.271	0.000	0.05
		B		0.000	0.000	0.909	0.000	0.01
		C		0.000	0.000	3.162	0.000	0.06
L7	121.59-117.00	A	0.967	0.000	0.000	6.772	0.000	0.14
		B		0.000	0.000	3.352	0.000	0.03
		C		0.000	0.000	9.007	0.000	0.15
L8	117.00-116.75	A	0.965	0.000	0.000	0.580	0.000	0.01
		B		0.000	0.000	0.482	0.000	0.00
		C		0.000	0.000	0.702	0.000	0.01
L9	116.75-111.75	A	0.962	0.000	0.000	11.597	0.000	0.18
		B		0.000	0.000	9.631	0.000	0.09
		C		0.000	0.000	14.032	0.000	0.19
L10	111.75-106.75	A	0.958	0.000	0.000	11.587	0.000	0.18
		B		0.000	0.000	9.614	0.000	0.09
		C		0.000	0.000	14.022	0.000	0.19
L11	106.75-101.75	A	0.954	0.000	0.000	11.577	0.000	0.18
		B		0.000	0.000	9.596	0.000	0.09
		C		0.000	0.000	14.012	0.000	0.19
L12	101.75-96.75	A	0.949	0.000	0.000	11.567	0.000	0.18
		B		0.000	0.000	9.577	0.000	0.09
		C		0.000	0.000	14.002	0.000	0.19
L13	96.75-91.75	A	0.944	0.000	0.000	11.556	0.000	0.18
		B		0.000	0.000	9.558	0.000	0.09
		C		0.000	0.000	13.991	0.000	0.19
L14	91.75-85.96	A	0.938	0.000	0.000	17.238	0.000	0.23
		B		0.000	0.000	14.913	0.000	0.12
		C		0.000	0.000	20.057	0.000	0.25
L15	85.96-84.96	A	0.935	0.000	0.000	2.569	0.000	0.04
		B		0.000	0.000	2.183	0.000	0.02
		C		0.000	0.000	3.056	0.000	0.04
L16	84.96-79.96	A	0.932	0.000	0.000	12.828	0.000	0.18
		B		0.000	0.000	12.753	0.000	0.11
		C		0.000	0.000	15.263	0.000	0.20
L17	79.96-74.96	A	0.926	0.000	0.000	12.814	0.000	0.18
		B		0.000	0.000	12.723	0.000	0.11
		C		0.000	0.000	15.249	0.000	0.20
L18	74.96-69.96	A	0.920	0.000	0.000	12.801	0.000	0.18
		B		0.000	0.000	12.690	0.000	0.11
		C		0.000	0.000	15.236	0.000	0.20
L19	69.96-64.96	A	0.913	0.000	0.000	12.786	0.000	0.18
		B		0.000	0.000	12.656	0.000	0.10
		C		0.000	0.000	15.221	0.000	0.20
L20	64.96-60.50	A	0.906	0.000	0.000	11.392	0.000	0.16

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	11.258	0.000	0.09
		C		0.000	0.000	13.564	0.000	0.17
L21	60.50-60.25	A	0.903	0.000	0.000	0.638	0.000	0.01
		B		0.000	0.000	0.630	0.000	0.01
		C		0.000	0.000	0.760	0.000	0.01
L22	60.25-55.25	A	0.899	0.000	0.000	12.754	0.000	0.18
		B		0.000	0.000	12.582	0.000	0.10
		C		0.000	0.000	15.189	0.000	0.20
L23	55.25-50.25	A	0.891	0.000	0.000	12.736	0.000	0.18
		B		0.000	0.000	12.540	0.000	0.10
		C		0.000	0.000	15.171	0.000	0.19
L24	50.25-42.41	A	0.879	0.000	0.000	19.929	0.000	0.28
		B		0.000	0.000	19.567	0.000	0.16
		C		0.000	0.000	23.747	0.000	0.30
L25	42.41-41.41	A	0.871	0.000	0.000	2.542	0.000	0.04
		B		0.000	0.000	2.496	0.000	0.02
		C		0.000	0.000	3.029	0.000	0.04
L26	41.41-36.41	A	0.864	0.000	0.000	12.676	0.000	0.18
		B		0.000	0.000	12.399	0.000	0.10
		C		0.000	0.000	15.111	0.000	0.19
L27	36.41-31.41	A	0.852	0.000	0.000	12.649	0.000	0.18
		B		0.000	0.000	12.337	0.000	0.10
		C		0.000	0.000	15.084	0.000	0.19
L28	31.41-30.50	A	0.845	0.000	0.000	2.299	0.000	0.03
		B		0.000	0.000	2.238	0.000	0.02
		C		0.000	0.000	2.742	0.000	0.03
L29	30.50-30.25	A	0.843	0.000	0.000	0.631	0.000	0.01
		B		0.000	0.000	0.614	0.000	0.00
		C		0.000	0.000	0.753	0.000	0.01
L30	30.25-25.25	A	0.835	0.000	0.000	12.611	0.000	0.17
		B		0.000	0.000	12.249	0.000	0.10
		C		0.000	0.000	15.046	0.000	0.19
L31	25.25-20.25	A	0.819	0.000	0.000	12.574	0.000	0.17
		B		0.000	0.000	12.162	0.000	0.09
		C		0.000	0.000	15.337	0.000	0.19
L32	20.25-18.00	A	0.805	0.000	0.000	5.644	0.000	0.08
		B		0.000	0.000	5.440	0.000	0.04
		C		0.000	0.000	9.686	0.000	0.10
L33	18.00-17.75	A	0.799	0.000	0.000	0.627	0.000	0.01
		B		0.000	0.000	0.603	0.000	0.00
		C		0.000	0.000	1.075	0.000	0.01
L34	17.75-12.75	A	0.787	0.000	0.000	12.502	0.000	0.17
		B		0.000	0.000	11.994	0.000	0.09
		C		0.000	0.000	17.875	0.000	0.20
L35	12.75-7.75	A	0.756	0.000	0.000	12.433	0.000	0.17
		B		0.000	0.000	11.833	0.000	0.09
		C		0.000	0.000	14.868	0.000	0.18
L36	7.75-3.92	A	0.715	0.000	0.000	9.462	0.000	0.13
		B		0.000	0.000	8.906	0.000	0.06
		C		0.000	0.000	11.329	0.000	0.13
L37	3.92-3.67	A	0.685	0.000	0.000	0.614	0.000	0.01
		B		0.000	0.000	0.573	0.000	0.00
		C		0.000	0.000	0.735	0.000	0.01
L38	3.67-0.00	A	0.636	0.000	0.000	8.918	0.000	0.11
		B		0.000	0.000	8.215	0.000	0.05
		C		0.000	0.000	10.704	0.000	0.12

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	150.00-145.00	-1.4724	-3.4843	-0.4862	-2.8563
L2	145.00-140.00	-1.5065	-3.5712	-0.4995	-2.9526
L3	140.00-135.00	-2.0968	1.1959	-1.1502	0.5120
L4	135.00-130.00	-2.1646	1.2347	-1.1917	0.5309

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L5	130.00-123.42	-2.2397	1.2777	-1.2383	0.5522
L6	123.42-121.59	-2.2709	1.2955	-1.2570	0.5604
L7	121.59-117.00	-1.9734	1.1258	-1.1623	0.5191
L8	117.00-116.75	-1.1349	0.4745	-0.6562	0.0398
L9	116.75-111.75	-1.1550	0.4828	-0.6682	0.0409
L10	111.75-106.75	-1.1928	0.4984	-0.6908	0.0431
L11	106.75-101.75	-1.2297	0.5137	-0.7132	0.0455
L12	101.75-96.75	-1.2660	0.5287	-0.7354	0.0481
L13	96.75-91.75	-1.3015	0.5434	-0.7575	0.0509
L14	91.75-85.96	-1.0576	0.4415	-0.6603	0.0458
L15	85.96-84.96	-1.2023	0.4931	-0.7280	0.0320
L16	84.96-79.96	-1.1588	0.2663	-0.6206	-0.3939
L17	79.96-74.96	-1.1885	0.2726	-0.6386	-0.4019
L18	74.96-69.96	-1.2177	0.2788	-0.6566	-0.4092
L19	69.96-64.96	-1.2464	0.2848	-0.6747	-0.4158
L20	64.96-60.50	-1.2731	0.2905	-0.6919	-0.4214
L21	60.50-60.25	-1.2862	0.2933	-0.7005	-0.4240
L22	60.25-55.25	-1.3007	0.2963	-0.7103	-0.4266
L23	55.25-50.25	-1.3281	0.3021	-0.7290	-0.4309
L24	50.25-42.41	-1.3625	0.3094	-0.7535	-0.4349
L25	42.41-41.41	-1.3705	0.3111	-0.7579	-0.4378
L26	41.41-36.41	-1.3863	0.3144	-0.7749	-0.4319
L27	36.41-31.41	-1.4122	0.3199	-0.7957	-0.4317
L28	31.41-30.50	-1.4274	0.3231	-0.8085	-0.4307
L29	30.50-30.25	-1.4303	0.3238	-0.8111	-0.4305
L30	30.25-25.25	-1.4436	0.3266	-0.8229	-0.4288
L31	25.25-20.25	-1.4586	0.4794	-0.8427	-0.3150
L32	20.25-18.00	-1.3074	2.9490	-0.7888	1.5714
L33	18.00-17.75	-1.3130	2.9616	-0.7951	1.5826
L34	17.75-12.75	-1.4185	1.6071	-0.8506	0.5392
L35	12.75-7.75	-1.5295	0.3447	-0.9214	-0.3877
L36	7.75-3.92	-1.5505	0.3492	-0.9616	-0.3558
L37	3.92-3.67	-1.5601	0.3512	-0.9880	-0.3301
L38	3.67-0.00	-1.5692	0.3531	-1.0275	-0.2862

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	2	Climbing Pegs	145.00 - 150.00	1.0000	1.0000
L1	3	Safety Line 3/8	145.00 - 150.00	1.0000	1.0000
L1	8	HB158-21U6S24-xxM_TMO(1-5/8)	145.00 - 150.00	1.0000	1.0000
L2	2	Climbing Pegs	140.00 - 145.00	1.0000	1.0000
L2	3	Safety Line 3/8	140.00 - 145.00	1.0000	1.0000
L2	8	HB158-21U6S24-xxM_TMO(1-5/8)	140.00 - 145.00	1.0000	1.0000
L3	2	Climbing Pegs	135.00 - 140.00	1.0000	1.0000
L3	3	Safety Line 3/8	135.00 - 140.00	1.0000	1.0000
L3	8	HB158-21U6S24-xxM_TMO(1-5/8)	135.00 - 140.00	1.0000	1.0000
L3	10	LDF7-50A(1-5/8)	135.00 - 140.00	1.0000	1.0000
L4	2	Climbing Pegs	130.00 - 135.00	1.0000	1.0000
L4	3	Safety Line 3/8	130.00 - 135.00	1.0000	1.0000
L4	8	HB158-21U6S24-xxM_TMO(1-5/8)	130.00 - 135.00	1.0000	1.0000
L4	10	LDF7-50A(1-5/8)	130.00 - 135.00	1.0000	1.0000
L5	2	Climbing Pegs	123.42 - 130.00	1.0000	1.0000
L5	3	Safety Line 3/8	123.42 - 130.00	1.0000	1.0000
L5	8	HB158-21U6S24-xxM_TMO(1-5/8)	123.42 - 130.00	1.0000	1.0000
L5	10	LDF7-50A(1-5/8)	123.42 - 130.00	1.0000	1.0000
L6	2	Climbing Pegs	121.59 - 123.42	1.0000	1.0000
L6	3	Safety Line 3/8	121.59 - 123.42	1.0000	1.0000
L6	8	HB158-21U6S24-xxM_TMO(1-5/8)	121.59 - 123.42	1.0000	1.0000
L6	10	LDF7-50A(1-5/8)	121.59 - 123.42	1.0000	1.0000
L7	2	Climbing Pegs	117.00 - 121.59	1.0000	1.0000
L7	3	Safety Line 3/8	117.00 - 121.59	1.0000	1.0000
L7	8	HB158-21U6S24-xxM_TMO(1-5/8)	117.00 - 121.59	1.0000	1.0000
L7	10	LDF7-50A(1-5/8)	117.00 - 121.59	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L7	30	MP3-05	117.00 - 118.00	1.0000	1.0000
L7	31	MP3-05	117.00 - 118.00	1.0000	1.0000
L7	32	MP3-05	117.00 - 118.00	1.0000	1.0000
L8	2	Climbing Pegs	116.75 - 117.00	1.0000	1.0000
L8	3	Safety Line 3/8	116.75 - 117.00	1.0000	1.0000
L8	8	HB158-21U6S24-xxM_TMO(1-5/8)	116.75 - 117.00	1.0000	1.0000
L8	10	LDF7-50A(1-5/8)	116.75 - 117.00	1.0000	1.0000
L8	22	CU12PSM9P6XXX(1-1/2)	116.75 - 117.00	1.0000	1.0000
L8	30	MP3-05	116.75 - 117.00	1.0000	1.0000
L8	31	MP3-05	116.75 - 117.00	1.0000	1.0000
L8	32	MP3-05	116.75 - 117.00	1.0000	1.0000
L9	2	Climbing Pegs	111.75 - 116.75	1.0000	1.0000
L9	3	Safety Line 3/8	111.75 - 116.75	1.0000	1.0000
L9	8	HB158-21U6S24-xxM_TMO(1-5/8)	111.75 - 116.75	1.0000	1.0000
L9	10	LDF7-50A(1-5/8)	111.75 - 116.75	1.0000	1.0000
L9	22	CU12PSM9P6XXX(1-1/2)	111.75 - 116.75	1.0000	1.0000
L9	30	MP3-05	111.75 - 116.75	1.0000	1.0000
L9	31	MP3-05	111.75 - 116.75	1.0000	1.0000
L9	32	MP3-05	111.75 - 116.75	1.0000	1.0000
L10	2	Climbing Pegs	106.75 - 111.75	1.0000	1.0000
L10	3	Safety Line 3/8	106.75 - 111.75	1.0000	1.0000
L10	8	HB158-21U6S24-xxM_TMO(1-5/8)	106.75 - 111.75	1.0000	1.0000
L10	10	LDF7-50A(1-5/8)	106.75 - 111.75	1.0000	1.0000
L10	22	CU12PSM9P6XXX(1-1/2)	106.75 - 111.75	1.0000	1.0000
L10	30	MP3-05	106.75 - 111.75	1.0000	1.0000
L10	31	MP3-05	106.75 - 111.75	1.0000	1.0000
L10	32	MP3-05	106.75 - 111.75	1.0000	1.0000
L11	2	Climbing Pegs	101.75 - 106.75	1.0000	1.0000
L11	3	Safety Line 3/8	101.75 - 106.75	1.0000	1.0000
L11	8	HB158-21U6S24-xxM_TMO(1-5/8)	101.75 - 106.75	1.0000	1.0000
L11	10	LDF7-50A(1-5/8)	101.75 - 106.75	1.0000	1.0000
L11	22	CU12PSM9P6XXX(1-1/2)	101.75 - 106.75	1.0000	1.0000
L11	30	MP3-05	101.75 - 106.75	1.0000	1.0000
L11	31	MP3-05	101.75 - 106.75	1.0000	1.0000
L11	32	MP3-05	101.75 - 106.75	1.0000	1.0000
L12	2	Climbing Pegs	96.75 - 101.75	1.0000	1.0000
L12	3	Safety Line 3/8	96.75 - 101.75	1.0000	1.0000
L12	8	HB158-21U6S24-xxM_TMO(1-5/8)	96.75 - 101.75	1.0000	1.0000
L12	10	LDF7-50A(1-5/8)	96.75 - 101.75	1.0000	1.0000
L12	22	CU12PSM9P6XXX(1-1/2)	96.75 - 101.75	1.0000	1.0000
L12	30	MP3-05	96.75 - 101.75	1.0000	1.0000
L12	31	MP3-05	96.75 - 101.75	1.0000	1.0000
L12	32	MP3-05	96.75 - 101.75	1.0000	1.0000
L13	2	Climbing Pegs	91.75 - 96.75	1.0000	1.0000
L13	3	Safety Line 3/8	91.75 - 96.75	1.0000	1.0000
L13	8	HB158-21U6S24-xxM_TMO(1-5/8)	91.75 - 96.75	1.0000	1.0000
L13	10	LDF7-50A(1-5/8)	91.75 - 96.75	1.0000	1.0000
L13	22	CU12PSM9P6XXX(1-1/2)	91.75 - 96.75	1.0000	1.0000
L13	30	MP3-05	91.75 - 96.75	1.0000	1.0000
L13	31	MP3-05	91.75 - 96.75	1.0000	1.0000
L13	32	MP3-05	91.75 - 96.75	1.0000	1.0000
L14	2	Climbing Pegs	85.96 - 91.75	1.0000	1.0000
L14	3	Safety Line 3/8	85.96 - 91.75	1.0000	1.0000
L14	8	HB158-21U6S24-xxM_TMO(1-5/8)	85.96 - 91.75	1.0000	1.0000
L14	10	LDF7-50A(1-5/8)	85.96 - 91.75	1.0000	1.0000
L14	22	CU12PSM9P6XXX(1-1/2)	85.96 - 91.75	1.0000	1.0000
L14	26	MP3-06	85.96 - 90.50	1.0000	1.0000
L14	27	MP3-06	85.96 - 90.50	1.0000	1.0000
L14	28	MP3-06	85.96 - 90.50	1.0000	1.0000
L14	30	MP3-05	88.00 - 91.75	1.0000	1.0000
L14	31	MP3-05	88.00 - 91.75	1.0000	1.0000
L14	32	MP3-05	88.00 - 91.75	1.0000	1.0000
L15	2	Climbing Pegs	84.96 - 85.96	1.0000	1.0000
L15	3	Safety Line 3/8	84.96 - 85.96	1.0000	1.0000
L15	8	HB158-21U6S24-xxM_TMO(1-5/8)	84.96 - 85.96	1.0000	1.0000
L15	10	LDF7-50A(1-5/8)	84.96 - 85.96	1.0000	1.0000
L15	22	CU12PSM9P6XXX(1-1/2)	84.96 - 85.96	1.0000	1.0000
L15	24	LDF4-50A(1/2)	84.96 - 85.00	1.0000	1.0000
L15	26	MP3-06	84.96 - 85.96	1.0000	1.0000
L15	27	MP3-06	84.96 - 85.96	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L15	28	MP3-06	84.96 - 85.96	1.0000	1.0000
L16	2	Climbing Pegs	79.96 - 84.96	1.0000	1.0000
L16	3	Safety Line 3/8	79.96 - 84.96	1.0000	1.0000
L16	8	HB158-21U6S24-xxM_TMO(1-5/8)	79.96 - 84.96	1.0000	1.0000
L16	10	LDF7-50A(1-5/8)	79.96 - 84.96	1.0000	1.0000
L16	22	CU12PSM9P6XXX(1-1/2)	79.96 - 84.96	1.0000	1.0000
L16	24	LDF4-50A(1/2)	79.96 - 84.96	1.0000	1.0000
L16	26	MP3-06	79.96 - 84.96	1.0000	1.0000
L16	27	MP3-06	79.96 - 84.96	1.0000	1.0000
L16	28	MP3-06	79.96 - 84.96	1.0000	1.0000
L17	2	Climbing Pegs	74.96 - 79.96	1.0000	1.0000
L17	3	Safety Line 3/8	74.96 - 79.96	1.0000	1.0000
L17	8	HB158-21U6S24-xxM_TMO(1-5/8)	74.96 - 79.96	1.0000	1.0000
L17	10	LDF7-50A(1-5/8)	74.96 - 79.96	1.0000	1.0000
L17	22	CU12PSM9P6XXX(1-1/2)	74.96 - 79.96	1.0000	1.0000
L17	24	LDF4-50A(1/2)	74.96 - 79.96	1.0000	1.0000
L17	26	MP3-06	74.96 - 79.96	1.0000	1.0000
L17	27	MP3-06	74.96 - 79.96	1.0000	1.0000
L17	28	MP3-06	74.96 - 79.96	1.0000	1.0000
L18	2	Climbing Pegs	69.96 - 74.96	1.0000	1.0000
L18	3	Safety Line 3/8	69.96 - 74.96	1.0000	1.0000
L18	8	HB158-21U6S24-xxM_TMO(1-5/8)	69.96 - 74.96	1.0000	1.0000
L18	10	LDF7-50A(1-5/8)	69.96 - 74.96	1.0000	1.0000
L18	22	CU12PSM9P6XXX(1-1/2)	69.96 - 74.96	1.0000	1.0000
L18	24	LDF4-50A(1/2)	69.96 - 74.96	1.0000	1.0000
L18	26	MP3-06	69.96 - 74.96	1.0000	1.0000
L18	27	MP3-06	69.96 - 74.96	1.0000	1.0000
L18	28	MP3-06	69.96 - 74.96	1.0000	1.0000
L19	2	Climbing Pegs	64.96 - 69.96	1.0000	1.0000
L19	3	Safety Line 3/8	64.96 - 69.96	1.0000	1.0000
L19	8	HB158-21U6S24-xxM_TMO(1-5/8)	64.96 - 69.96	1.0000	1.0000
L19	10	LDF7-50A(1-5/8)	64.96 - 69.96	1.0000	1.0000
L19	22	CU12PSM9P6XXX(1-1/2)	64.96 - 69.96	1.0000	1.0000
L19	24	LDF4-50A(1/2)	64.96 - 69.96	1.0000	1.0000
L19	26	MP3-06	64.96 - 69.96	1.0000	1.0000
L19	27	MP3-06	64.96 - 69.96	1.0000	1.0000
L19	28	MP3-06	64.96 - 69.96	1.0000	1.0000
L20	2	Climbing Pegs	60.50 - 64.96	1.0000	1.0000
L20	3	Safety Line 3/8	60.50 - 64.96	1.0000	1.0000
L20	8	HB158-21U6S24-xxM_TMO(1-5/8)	60.50 - 64.96	1.0000	1.0000
L20	10	LDF7-50A(1-5/8)	60.50 - 64.96	1.0000	1.0000
L20	22	CU12PSM9P6XXX(1-1/2)	60.50 - 64.96	1.0000	1.0000
L20	24	LDF4-50A(1/2)	60.50 - 64.96	1.0000	1.0000
L20	26	MP3-06	60.50 - 64.96	1.0000	1.0000
L20	27	MP3-06	60.50 - 64.96	1.0000	1.0000
L20	28	MP3-06	60.50 - 64.96	1.0000	1.0000
L21	2	Climbing Pegs	60.25 - 60.50	1.0000	1.0000
L21	3	Safety Line 3/8	60.25 - 60.50	1.0000	1.0000
L21	8	HB158-21U6S24-xxM_TMO(1-5/8)	60.25 - 60.50	1.0000	1.0000
L21	10	LDF7-50A(1-5/8)	60.25 - 60.50	1.0000	1.0000
L21	22	CU12PSM9P6XXX(1-1/2)	60.25 - 60.50	1.0000	1.0000
L21	24	LDF4-50A(1/2)	60.25 - 60.50	1.0000	1.0000
L21	26	MP3-06	60.25 - 60.50	1.0000	1.0000
L21	27	MP3-06	60.25 - 60.50	1.0000	1.0000
L21	28	MP3-06	60.25 - 60.50	1.0000	1.0000
L22	2	Climbing Pegs	55.25 - 60.25	1.0000	1.0000
L22	3	Safety Line 3/8	55.25 - 60.25	1.0000	1.0000
L22	8	HB158-21U6S24-xxM_TMO(1-5/8)	55.25 - 60.25	1.0000	1.0000
L22	10	LDF7-50A(1-5/8)	55.25 - 60.25	1.0000	1.0000
L22	22	CU12PSM9P6XXX(1-1/2)	55.25 - 60.25	1.0000	1.0000
L22	24	LDF4-50A(1/2)	55.25 - 60.25	1.0000	1.0000
L22	26	MP3-06	55.25 - 60.25	1.0000	1.0000
L22	27	MP3-06	55.25 - 60.25	1.0000	1.0000
L22	28	MP3-06	55.25 - 60.25	1.0000	1.0000
L23	2	Climbing Pegs	50.25 - 55.25	1.0000	1.0000
L23	3	Safety Line 3/8	50.25 - 55.25	1.0000	1.0000
L23	8	HB158-21U6S24-xxM_TMO(1-5/8)	50.25 - 55.25	1.0000	1.0000
L23	10	LDF7-50A(1-5/8)	50.25 - 55.25	1.0000	1.0000
L23	22	CU12PSM9P6XXX(1-1/2)	50.25 - 55.25	1.0000	1.0000
L23	24	LDF4-50A(1/2)	50.25 - 55.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L23	26	MP3-06	50.25 - 55.25	1.0000	1.0000
L23	27	MP3-06	50.25 - 55.25	1.0000	1.0000
L23	28	MP3-06	50.25 - 55.25	1.0000	1.0000
L24	2	Climbing Pegs	42.41 - 50.25	1.0000	1.0000
L24	3	Safety Line 3/8	42.41 - 50.25	1.0000	1.0000
L24	8	HB158-21U6S24-xxM_TMO(1-5/8)	42.41 - 50.25	1.0000	1.0000
L24	10	LDF7-50A(1-5/8)	42.41 - 50.25	1.0000	1.0000
L24	22	CU12PSM9P6XXX(1-1/2)	42.41 - 50.25	1.0000	1.0000
L24	24	LDF4-50A(1/2)	42.41 - 50.25	1.0000	1.0000
L24	26	MP3-06	42.41 - 50.25	1.0000	1.0000
L24	27	MP3-06	42.41 - 50.25	1.0000	1.0000
L24	28	MP3-06	42.41 - 50.25	1.0000	1.0000
L25	2	Climbing Pegs	41.41 - 42.41	1.0000	1.0000
L25	3	Safety Line 3/8	41.41 - 42.41	1.0000	1.0000
L25	8	HB158-21U6S24-xxM_TMO(1-5/8)	41.41 - 42.41	1.0000	1.0000
L25	10	LDF7-50A(1-5/8)	41.41 - 42.41	1.0000	1.0000
L25	22	CU12PSM9P6XXX(1-1/2)	41.41 - 42.41	1.0000	1.0000
L25	24	LDF4-50A(1/2)	41.41 - 42.41	1.0000	1.0000
L25	26	MP3-06	41.41 - 42.41	1.0000	1.0000
L25	27	MP3-06	41.41 - 42.41	1.0000	1.0000
L25	28	MP3-06	41.41 - 42.41	1.0000	1.0000
L26	2	Climbing Pegs	36.41 - 41.41	1.0000	1.0000
L26	3	Safety Line 3/8	36.41 - 41.41	1.0000	1.0000
L26	8	HB158-21U6S24-xxM_TMO(1-5/8)	36.41 - 41.41	1.0000	1.0000
L26	10	LDF7-50A(1-5/8)	36.41 - 41.41	1.0000	1.0000
L26	22	CU12PSM9P6XXX(1-1/2)	36.41 - 41.41	1.0000	1.0000
L26	24	LDF4-50A(1/2)	36.41 - 41.41	1.0000	1.0000
L26	26	MP3-06	36.41 - 41.41	1.0000	1.0000
L26	27	MP3-06	36.41 - 41.41	1.0000	1.0000
L26	28	MP3-06	36.41 - 41.41	1.0000	1.0000
L27	2	Climbing Pegs	31.41 - 36.41	1.0000	1.0000
L27	3	Safety Line 3/8	31.41 - 36.41	1.0000	1.0000
L27	8	HB158-21U6S24-xxM_TMO(1-5/8)	31.41 - 36.41	1.0000	1.0000
L27	10	LDF7-50A(1-5/8)	31.41 - 36.41	1.0000	1.0000
L27	22	CU12PSM9P6XXX(1-1/2)	31.41 - 36.41	1.0000	1.0000
L27	24	LDF4-50A(1/2)	31.41 - 36.41	1.0000	1.0000
L27	26	MP3-06	31.41 - 36.41	1.0000	1.0000
L27	27	MP3-06	31.41 - 36.41	1.0000	1.0000
L27	28	MP3-06	31.41 - 36.41	1.0000	1.0000
L28	2	Climbing Pegs	30.50 - 31.41	1.0000	1.0000
L28	3	Safety Line 3/8	30.50 - 31.41	1.0000	1.0000
L28	8	HB158-21U6S24-xxM_TMO(1-5/8)	30.50 - 31.41	1.0000	1.0000
L28	10	LDF7-50A(1-5/8)	30.50 - 31.41	1.0000	1.0000
L28	22	CU12PSM9P6XXX(1-1/2)	30.50 - 31.41	1.0000	1.0000
L28	24	LDF4-50A(1/2)	30.50 - 31.41	1.0000	1.0000
L28	26	MP3-06	30.50 - 31.41	1.0000	1.0000
L28	27	MP3-06	30.50 - 31.41	1.0000	1.0000
L28	28	MP3-06	30.50 - 31.41	1.0000	1.0000
L29	2	Climbing Pegs	30.25 - 30.50	1.0000	1.0000
L29	3	Safety Line 3/8	30.25 - 30.50	1.0000	1.0000
L29	8	HB158-21U6S24-xxM_TMO(1-5/8)	30.25 - 30.50	1.0000	1.0000
L29	10	LDF7-50A(1-5/8)	30.25 - 30.50	1.0000	1.0000
L29	22	CU12PSM9P6XXX(1-1/2)	30.25 - 30.50	1.0000	1.0000
L29	24	LDF4-50A(1/2)	30.25 - 30.50	1.0000	1.0000
L29	26	MP3-06	30.25 - 30.50	1.0000	1.0000
L29	27	MP3-06	30.25 - 30.50	1.0000	1.0000
L29	28	MP3-06	30.25 - 30.50	1.0000	1.0000
L30	2	Climbing Pegs	25.25 - 30.25	1.0000	1.0000
L30	3	Safety Line 3/8	25.25 - 30.25	1.0000	1.0000
L30	8	HB158-21U6S24-xxM_TMO(1-5/8)	25.25 - 30.25	1.0000	1.0000
L30	10	LDF7-50A(1-5/8)	25.25 - 30.25	1.0000	1.0000
L30	22	CU12PSM9P6XXX(1-1/2)	25.25 - 30.25	1.0000	1.0000
L30	24	LDF4-50A(1/2)	25.25 - 30.25	1.0000	1.0000
L30	26	MP3-06	25.25 - 30.25	1.0000	1.0000
L30	27	MP3-06	25.25 - 30.25	1.0000	1.0000
L30	28	MP3-06	25.25 - 30.25	1.0000	1.0000
L31	2	Climbing Pegs	20.25 - 25.25	1.0000	1.0000
L31	3	Safety Line 3/8	20.25 - 25.25	1.0000	1.0000
L31	8	HB158-21U6S24-xxM_TMO(1-5/8)	20.25 - 25.25	1.0000	1.0000
L31	10	LDF7-50A(1-5/8)	20.25 - 25.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L31	22	CU12PSM9P6XXX(1-1/2)	20.25 - 25.25	1.0000	1.0000
L31	24	LDF4-50A(1/2)	20.25 - 25.25	1.0000	1.0000
L31	26	MP3-06	20.25 - 25.25	1.0000	1.0000
L31	27	MP3-06	20.25 - 25.25	1.0000	1.0000
L31	28	MP3-06	20.25 - 25.25	1.0000	1.0000
L31	29	MP3-06	20.25 - 20.50	1.0000	1.0000
L32	2	Climbing Pegs	18.00 - 20.25	1.0000	1.0000
L32	3	Safety Line 3/8	18.00 - 20.25	1.0000	1.0000
L32	8	HB158-21U6S24-xxM_TMO(1-5/8)	18.00 - 20.25	1.0000	1.0000
L32	10	LDF7-50A(1-5/8)	18.00 - 20.25	1.0000	1.0000
L32	22	CU12PSM9P6XXX(1-1/2)	18.00 - 20.25	1.0000	1.0000
L32	24	LDF4-50A(1/2)	18.00 - 20.25	1.0000	1.0000
L32	26	MP3-06	18.00 - 20.25	1.0000	1.0000
L32	27	MP3-06	18.00 - 20.25	1.0000	1.0000
L32	28	MP3-06	18.00 - 20.25	1.0000	1.0000
L32	29	MP3-06	18.00 - 20.25	1.0000	1.0000
L33	2	Climbing Pegs	17.75 - 18.00	1.0000	1.0000
L33	3	Safety Line 3/8	17.75 - 18.00	1.0000	1.0000
L33	8	HB158-21U6S24-xxM_TMO(1-5/8)	17.75 - 18.00	1.0000	1.0000
L33	10	LDF7-50A(1-5/8)	17.75 - 18.00	1.0000	1.0000
L33	22	CU12PSM9P6XXX(1-1/2)	17.75 - 18.00	1.0000	1.0000
L33	24	LDF4-50A(1/2)	17.75 - 18.00	1.0000	1.0000
L33	26	MP3-06	17.75 - 18.00	1.0000	1.0000
L33	27	MP3-06	17.75 - 18.00	1.0000	1.0000
L33	28	MP3-06	17.75 - 18.00	1.0000	1.0000
L33	29	MP3-06	17.75 - 18.00	1.0000	1.0000
L34	2	Climbing Pegs	12.75 - 17.75	1.0000	1.0000
L34	3	Safety Line 3/8	12.75 - 17.75	1.0000	1.0000
L34	8	HB158-21U6S24-xxM_TMO(1-5/8)	12.75 - 17.75	1.0000	1.0000
L34	10	LDF7-50A(1-5/8)	12.75 - 17.75	1.0000	1.0000
L34	22	CU12PSM9P6XXX(1-1/2)	12.75 - 17.75	1.0000	1.0000
L34	24	LDF4-50A(1/2)	12.75 - 17.75	1.0000	1.0000
L34	26	MP3-06	12.75 - 17.75	1.0000	1.0000
L34	27	MP3-06	12.75 - 17.75	1.0000	1.0000
L34	28	MP3-06	15.50 - 17.75	1.0000	1.0000
L34	29	MP3-06	12.75 - 17.75	1.0000	1.0000
L35	2	Climbing Pegs	7.75 - 12.75	1.0000	1.0000
L35	3	Safety Line 3/8	7.75 - 12.75	1.0000	1.0000
L35	8	HB158-21U6S24-xxM_TMO(1-5/8)	7.75 - 12.75	1.0000	1.0000
L35	10	LDF7-50A(1-5/8)	7.75 - 12.75	1.0000	1.0000
L35	22	CU12PSM9P6XXX(1-1/2)	7.75 - 12.75	1.0000	1.0000
L35	24	LDF4-50A(1/2)	7.75 - 12.75	1.0000	1.0000
L35	26	MP3-06	7.75 - 12.75	1.0000	1.0000
L35	27	MP3-06	7.75 - 12.75	1.0000	1.0000
L35	29	MP3-06	7.75 - 12.75	1.0000	1.0000
L36	2	Climbing Pegs	3.92 - 7.75	1.0000	1.0000
L36	3	Safety Line 3/8	3.92 - 7.75	1.0000	1.0000
L36	8	HB158-21U6S24-xxM_TMO(1-5/8)	3.92 - 7.75	1.0000	1.0000
L36	10	LDF7-50A(1-5/8)	3.92 - 7.75	1.0000	1.0000
L36	22	CU12PSM9P6XXX(1-1/2)	3.92 - 7.75	1.0000	1.0000
L36	24	LDF4-50A(1/2)	3.92 - 7.75	1.0000	1.0000
L36	26	MP3-06	3.92 - 7.75	1.0000	1.0000
L36	27	MP3-06	3.92 - 7.75	1.0000	1.0000
L36	29	MP3-06	3.92 - 7.75	1.0000	1.0000
L37	2	Climbing Pegs	3.67 - 3.92	1.0000	1.0000
L37	3	Safety Line 3/8	3.67 - 3.92	1.0000	1.0000
L37	8	HB158-21U6S24-xxM_TMO(1-5/8)	3.67 - 3.92	1.0000	1.0000
L37	10	LDF7-50A(1-5/8)	3.67 - 3.92	1.0000	1.0000
L37	22	CU12PSM9P6XXX(1-1/2)	3.67 - 3.92	1.0000	1.0000
L37	24	LDF4-50A(1/2)	3.67 - 3.92	1.0000	1.0000
L37	26	MP3-06	3.67 - 3.92	1.0000	1.0000
L37	27	MP3-06	3.67 - 3.92	1.0000	1.0000
L37	29	MP3-06	3.67 - 3.92	1.0000	1.0000
L38	2	Climbing Pegs	0.00 - 3.67	1.0000	1.0000
L38	3	Safety Line 3/8	0.00 - 3.67	1.0000	1.0000
L38	8	HB158-21U6S24-xxM_TMO(1-5/8)	0.00 - 3.67	1.0000	1.0000
L38	10	LDF7-50A(1-5/8)	0.00 - 3.67	1.0000	1.0000
L38	22	CU12PSM9P6XXX(1-1/2)	0.00 - 3.67	1.0000	1.0000
L38	24	LDF4-50A(1/2)	0.00 - 3.67	1.0000	1.0000
L38	26	MP3-06	0.00 - 3.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L38	27	MP3-06	0.00 - 3.67	1.0000	1.0000
L38	29	MP3-06	0.00 - 3.67	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L7	30	MP3-05	117.00 - 118.00	Auto	0.3710
L7	31	MP3-05	117.00 - 118.00	Auto	0.3710
L7	32	MP3-05	117.00 - 118.00	Auto	0.3710
L8	30	MP3-05	116.75 - 117.00	Auto	0.4698
L8	31	MP3-05	116.75 - 117.00	Auto	0.4698
L8	32	MP3-05	116.75 - 117.00	Auto	0.4698
L9	30	MP3-05	111.75 - 116.75	Auto	0.4471
L9	31	MP3-05	111.75 - 116.75	Auto	0.4471
L9	32	MP3-05	111.75 - 116.75	Auto	0.4471
L10	30	MP3-05	106.75 - 111.75	Auto	0.4057
L10	31	MP3-05	106.75 - 111.75	Auto	0.4057
L10	32	MP3-05	106.75 - 111.75	Auto	0.4057
L11	30	MP3-05	101.75 - 106.75	Auto	0.3643
L11	31	MP3-05	101.75 - 106.75	Auto	0.3643
L11	32	MP3-05	101.75 - 106.75	Auto	0.3643
L12	30	MP3-05	96.75 - 101.75	Auto	0.3249
L12	31	MP3-05	96.75 - 101.75	Auto	0.3249
L12	32	MP3-05	96.75 - 101.75	Auto	0.3249
L13	30	MP3-05	91.75 - 96.75	Auto	0.2856
L13	31	MP3-05	91.75 - 96.75	Auto	0.2856
L13	32	MP3-05	91.75 - 96.75	Auto	0.2856
L14	26	MP3-06	85.96 - 90.50	Auto	0.4145
L14	27	MP3-06	85.96 - 90.50	Auto	0.4145
L14	28	MP3-06	85.96 - 90.50	Auto	0.4145
L14	30	MP3-05	88.00 - 91.75	Auto	0.2547
L14	31	MP3-05	88.00 - 91.75	Auto	0.2547
L14	32	MP3-05	88.00 - 91.75	Auto	0.2547
L15	26	MP3-06	84.96 - 85.96	Auto	0.4601
L15	27	MP3-06	84.96 - 85.96	Auto	0.4601
L15	28	MP3-06	84.96 - 85.96	Auto	0.4601
L16	26	MP3-06	79.96 - 84.96	Auto	0.4405
L16	27	MP3-06	79.96 - 84.96	Auto	0.4405
L16	28	MP3-06	79.96 - 84.96	Auto	0.4405
L17	26	MP3-06	74.96 - 79.96	Auto	0.4069
L17	27	MP3-06	74.96 - 79.96	Auto	0.4069
L17	28	MP3-06	74.96 - 79.96	Auto	0.4069
L18	26	MP3-06	69.96 - 74.96	Auto	0.3765
L18	27	MP3-06	69.96 - 74.96	Auto	0.3765
L18	28	MP3-06	69.96 - 74.96	Auto	0.3765
L19	26	MP3-06	64.96 - 69.96	Auto	0.3460
L19	27	MP3-06	64.96 - 69.96	Auto	0.3460
L19	28	MP3-06	64.96 - 69.96	Auto	0.3460
L20	26	MP3-06	60.50 - 64.96	Auto	0.3171
L20	27	MP3-06	60.50 - 64.96	Auto	0.3171
L20	28	MP3-06	60.50 - 64.96	Auto	0.3171
L21	26	MP3-06	60.25 - 60.50	Auto	0.3042
L21	27	MP3-06	60.25 - 60.50	Auto	0.3042
L21	28	MP3-06	60.25 - 60.50	Auto	0.3042
L22	26	MP3-06	55.25 - 60.25	Auto	0.2867
L22	27	MP3-06	55.25 - 60.25	Auto	0.2867
L22	28	MP3-06	55.25 - 60.25	Auto	0.2867
L23	26	MP3-06	50.25 - 55.25	Auto	0.2595
L23	27	MP3-06	50.25 - 55.25	Auto	0.2595
L23	28	MP3-06	50.25 - 55.25	Auto	0.2595
L24	26	MP3-06	42.41 - 50.25	Auto	0.2213
L24	27	MP3-06	42.41 - 50.25	Auto	0.2213
L24	28	MP3-06	42.41 - 50.25	Auto	0.2213
L25	26	MP3-06	41.41 - 42.41	Auto	0.2291

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L25	27	MP3-06	41.41 - 42.41	Auto	0.2291
L25	28	MP3-06	41.41 - 42.41	Auto	0.2291
L26	26	MP3-06	36.41 - 41.41	Auto	0.2096
L26	27	MP3-06	36.41 - 41.41	Auto	0.2096
L26	28	MP3-06	36.41 - 41.41	Auto	0.2096
L27	26	MP3-06	31.41 - 36.41	Auto	0.1823
L27	27	MP3-06	31.41 - 36.41	Auto	0.1823
L27	28	MP3-06	31.41 - 36.41	Auto	0.1823
L28	26	MP3-06	30.50 - 31.41	Auto	0.1630
L28	27	MP3-06	30.50 - 31.41	Auto	0.1630
L28	28	MP3-06	30.50 - 31.41	Auto	0.1630
L29	26	MP3-06	30.25 - 30.50	Auto	0.1598
L29	27	MP3-06	30.25 - 30.50	Auto	0.1598
L29	28	MP3-06	30.25 - 30.50	Auto	0.1598
L30	26	MP3-06	25.25 - 30.25	Auto	0.1455
L30	27	MP3-06	25.25 - 30.25	Auto	0.1455
L30	28	MP3-06	25.25 - 30.25	Auto	0.1455
L31	26	MP3-06	20.25 - 25.25	Auto	0.1151
L31	27	MP3-06	20.25 - 25.25	Auto	0.1151
L31	28	MP3-06	20.25 - 25.25	Auto	0.1151
L31	29	MP3-06	20.25 - 20.50	Auto	0.1021
L32	26	MP3-06	18.00 - 20.25	Auto	0.0953
L32	27	MP3-06	18.00 - 20.25	Auto	0.0953
L32	28	MP3-06	18.00 - 20.25	Auto	0.0953
L32	29	MP3-06	18.00 - 20.25	Auto	0.0953
L33	26	MP3-06	17.75 - 18.00	Auto	0.0773
L33	27	MP3-06	17.75 - 18.00	Auto	0.0773
L33	28	MP3-06	17.75 - 18.00	Auto	0.0773
L33	29	MP3-06	17.75 - 18.00	Auto	0.0773
L34	26	MP3-06	12.75 - 17.75	Auto	0.0614
L34	27	MP3-06	12.75 - 17.75	Auto	0.0614
L34	28	MP3-06	15.50 - 17.75	Auto	0.0689
L34	29	MP3-06	12.75 - 17.75	Auto	0.0614
L35	26	MP3-06	7.75 - 12.75	Auto	0.0341
L35	27	MP3-06	7.75 - 12.75	Auto	0.0341
L35	29	MP3-06	7.75 - 12.75	Auto	0.0341
L36	26	MP3-06	3.92 - 7.75	Auto	0.0072
L36	27	MP3-06	3.92 - 7.75	Auto	0.0072
L36	29	MP3-06	3.92 - 7.75	Auto	0.0072
L37	26	MP3-06	3.67 - 3.92	Auto	0.0000
L37	27	MP3-06	3.67 - 3.92	Auto	0.0000
L37	29	MP3-06	3.67 - 3.92	Auto	0.0000
L38	26	MP3-06	0.00 - 3.67	Auto	0.0000
L38	27	MP3-06	0.00 - 3.67	Auto	0.0000
L38	29	MP3-06	0.00 - 3.67	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
******									
8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
8' x 2" Mount Pipe	C	From Leg	4.00	0.0000	150.00	No Ice	1.90	1.90	0.03

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
			0.00 0.00			1/2" Ice 1" Ice	2.73 3.40	2.73 3.40	0.04 0.06
Transition Ladder	C	From Leg	2.00 0.00 -4.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	6.00 8.00 10.00	6.00 8.00 10.00	0.16 0.24 0.32
Miscellaneous [NA 507-1]	C	None		0.0000	150.00	No Ice 1/2" Ice 1" Ice	4.56 6.39 8.18	4.56 6.39 8.18	0.25 0.31 0.40
Platform Mount [LP 604-1]	C	None		0.0000	150.00	No Ice 1/2" Ice 1" Ice	23.03 26.44 29.80	23.03 26.44 29.80	0.93 1.32 1.77
***									
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	6.29 6.86 7.45	2.76 3.27 3.79	0.06 0.11 0.16
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	6.29 6.86 7.45	2.76 3.27 3.79	0.06 0.11 0.16
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	6.29 6.86 7.45	2.76 3.27 3.79	0.06 0.11 0.16
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
RADIO 4415 B66A_CCIV3	A	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.68 0.79 0.91	0.05 0.06 0.07
RADIO 4415 B66A_CCIV3	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.68 0.79 0.91	0.05 0.06 0.07
RADIO 4415 B66A_CCIV3	C	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	0.68 0.79 0.91	0.05 0.06 0.07
RADIO 4449 B71 B85A_T-	A	From Leg	4.00	0.0000	150.00	No Ice	1.97	1.59	0.07

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
MOBILE			0.00			1/2" Ice	2.15	1.75	0.09
			0.00			1" Ice	2.33	1.92	0.12
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00	0.0000	150.00	No Ice	1.97	1.59	0.07
			0.00			1/2" Ice	2.15	1.75	0.09
			0.00			1" Ice	2.33	1.92	0.12
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00	0.0000	150.00	No Ice	1.97	1.59	0.07
			0.00			1/2" Ice	2.15	1.75	0.09
			0.00			1" Ice	2.33	1.92	0.12
RADIO 4424 B25_TMO	A	From Leg	4.00	0.0000	150.00	No Ice	2.05	1.61	0.09
			0.00			1/2" Ice	2.23	1.77	0.11
			0.00			1" Ice	2.42	1.94	0.13
RADIO 4424 B25_TMO	B	From Leg	4.00	0.0000	150.00	No Ice	2.05	1.61	0.09
			0.00			1/2" Ice	2.23	1.77	0.11
			0.00			1" Ice	2.42	1.94	0.13
RADIO 4424 B25_TMO	C	From Leg	4.00	0.0000	150.00	No Ice	2.05	1.61	0.09
			0.00			1/2" Ice	2.23	1.77	0.11
			0.00			1" Ice	2.42	1.94	0.13
HD Top Rail Kit [#HRK12-3HD]	C	None		0.0000	150.00	No Ice	4.56	4.56	0.25
						1/2" Ice	6.39	6.39	0.31
						1" Ice	8.18	8.18	0.40
******									
800MHZ RRH	A	From Leg	0.50	0.0000	148.00	No Ice	2.13	1.77	0.05
			0.00			1/2" Ice	2.32	1.95	0.07
			0.00			1" Ice	2.51	2.13	0.10
(2) 800MHZ RRH	B	From Leg	0.50	0.0000	148.00	No Ice	2.13	1.77	0.05
			0.00			1/2" Ice	2.32	1.95	0.07
			0.00			1" Ice	2.51	2.13	0.10
(2) 800MHZ RRH	C	From Leg	0.50	0.0000	148.00	No Ice	2.13	1.77	0.05
			0.00			1/2" Ice	2.32	1.95	0.07
			0.00			1" Ice	2.51	2.13	0.10
1900MHz RRH (65MHz)	A	From Leg	0.50	0.0000	148.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
1900MHz RRH (65MHz)	B	From Leg	0.50	0.0000	148.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
1900MHz RRH (65MHz)	C	From Leg	0.50	0.0000	148.00	No Ice	2.32	2.24	0.06
			0.00			1/2" Ice	2.53	2.44	0.08
			0.00			1" Ice	2.74	2.65	0.11
800 EXTERNAL NOTCH FILTER	A	From Leg	0.50	0.0000	148.00	No Ice	0.66	0.32	0.01
			0.00			1/2" Ice	0.76	0.40	0.02
			0.00			1" Ice	0.87	0.48	0.02
800 EXTERNAL NOTCH FILTER	B	From Leg	0.50	0.0000	148.00	No Ice	0.66	0.32	0.01
			0.00			1/2" Ice	0.76	0.40	0.02
			0.00			1" Ice	0.87	0.48	0.02
800 EXTERNAL NOTCH FILTER	C	From Leg	0.50	0.0000	148.00	No Ice	0.66	0.32	0.01
			0.00			1/2" Ice	0.76	0.40	0.02
			0.00			1" Ice	0.87	0.48	0.02
Pipe Mount [PM 601-3]	C	None		0.0000	148.00	No Ice	3.17	3.17	0.20

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
						1/2" Ice	3.79	3.79	0.23
						1" Ice	4.42	4.42	0.28
******									
Platform Mount [LP 712-1]	C	None		0.0000	140.00	No Ice	24.56	24.56	1.34
						1/2" Ice	27.92	27.92	1.91
						1" Ice	31.27	31.27	2.55
***									
BXA-70063-6CF-2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	7.34	5.51	0.06
						1/2" Ice	8.08	6.22	0.11
						1" Ice	8.83	6.94	0.18
BXA-70063-6CF-2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	7.34	5.51	0.06
						1/2" Ice	8.08	6.22	0.11
						1" Ice	8.83	6.94	0.18
BXA-70063-6CF-2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	7.34	5.51	0.06
						1/2" Ice	8.08	6.22	0.11
						1" Ice	8.83	6.94	0.18
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	6.54	5.55	0.10
						1/2" Ice	7.06	6.05	0.18
						1" Ice	7.60	6.57	0.28
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	6.54	5.55	0.10
						1/2" Ice	7.06	6.05	0.18
						1" Ice	7.60	6.57	0.28
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	6.54	5.55	0.10
						1/2" Ice	7.06	6.05	0.18
						1" Ice	7.60	6.57	0.28
MT6407-77A	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.69	1.84	0.08
						1/2" Ice	4.98	2.06	0.11
						1" Ice	5.28	2.29	0.14
MT6407-77A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.69	1.84	0.08
						1/2" Ice	4.98	2.06	0.11
						1" Ice	5.28	2.29	0.14
MT6407-77A	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.69	1.84	0.08
						1/2" Ice	4.98	2.06	0.11
						1" Ice	5.28	2.29	0.14
RFV01U-D1A	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.88	1.25	0.08
						1/2" Ice	2.05	1.39	0.10
						1" Ice	2.22	1.54	0.12
RFV01U-D1A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.88	1.25	0.08
						1/2" Ice	2.05	1.39	0.10
						1" Ice	2.22	1.54	0.12
RFV01U-D1A	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.88	1.25	0.08
						1/2" Ice	2.05	1.39	0.10
						1" Ice	2.22	1.54	0.12
RFV01U-D2A	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.88	1.01	0.07
						1/2" Ice	2.05	1.14	0.09
						1" Ice	2.22	1.28	0.11
RFV01U-D2A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	1.88	1.01	0.07
						1/2" Ice	2.05	1.14	0.09
						1" Ice	2.22	1.28	0.11

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
RFV01U-D2A	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice	1.88 2.05 2.22	1.01 1.14 1.28	0.07 0.09 0.11
RVZDC-6627-PF-48	B	From Leg	2.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice	3.79 4.04 4.30	2.51 2.73 2.95	0.03 0.06 0.10
3' x 2" Pipe Mount	B	From Leg	2.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice	0.58 0.77 0.97	0.58 0.77 0.97	0.01 0.02 0.02
8' Pipe Mount [#P2.5 STD]	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
8' Pipe Mount [#P2.5 STD]	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
8' Pipe Mount [#P2.5 STD]	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
Support Rail Kit [#VZWSMART-PLK1]	C	None		0.0000	140.00	No Ice 1/2" Ice 1" Ice	4.56 6.39 8.18	4.56 6.39 8.18	0.25 0.31 0.40
Kicker Kit [#VZWSMART-PLK5]	C	None		0.0000	140.00	No Ice 1/2" Ice 1" Ice	11.84 16.96 22.08	11.84 16.96 22.08	0.28 0.30 0.32
Collar Kit [#VZWSMART-PLK7]	C	None		0.0000	140.00	No Ice 1/2" Ice 1" Ice	3.60 4.18 4.75	3.60 4.18 4.75	0.07 0.11 0.14
*******									
AM-X-CD-16-65-00T-RET w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	4.63 5.06 5.51	3.27 3.69 4.12	0.07 0.13 0.20
SBNH-1D6565C w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	5.56 6.07 6.59	4.47 4.97 5.47	0.08 0.17 0.26
SBNH-1D6565C w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	5.56 6.07 6.59	4.47 4.97 5.47	0.08 0.17 0.26
(2) 80010966 w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	14.61 15.47 16.35	6.84 7.63 8.42	0.16 0.27 0.39
(2) 80010965 w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	12.26 13.03 13.80	5.79 6.47 7.17	0.14 0.23 0.33
(2) 80010966 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	14.61 15.47 16.35	6.84 7.63 8.42	0.16 0.27 0.39
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.97 2.14 2.33	1.41 1.56 1.73	0.07 0.09 0.11

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
RRUS 4449 B5/B12	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.97 2.14 2.33	1.41 1.56 1.73	0.07 0.09 0.11
RRUS 4449 B5/B12	C	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.97 2.14 2.33	1.41 1.56 1.73	0.07 0.09 0.11
RRUS 8843 B2/B66A	A	From Leg	4.00 6.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	1.35 1.50 1.65	0.07 0.09 0.11
RRUS 8843 B2/B66A	B	From Leg	4.00 6.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	1.35 1.50 1.65	0.07 0.09 0.11
RRUS 8843 B2/B66A	C	From Leg	4.00 6.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.64 1.80 1.97	1.35 1.50 1.65	0.07 0.09 0.11
DC6-48-60-18-8F	A	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	0.92 1.46 1.64	0.92 1.46 1.64	0.02 0.04 0.06
DC6-48-60-18-8C-EV	B	From Leg	4.00 0.00 1.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	2.74 2.96 3.20	2.74 2.96 3.20	0.03 0.05 0.08
Pipe Mount [PM 601-3]	C	None		0.0000	130.00	No Ice 1/2" Ice 1" Ice	3.17 3.79 4.42	3.17 3.79 4.42	0.20 0.23 0.28
Platform Mount [LP 305-1_HR-1] ******	C	None		0.0000	130.00	No Ice 1/2" Ice 1" Ice	19.59 24.48 29.24	19.59 24.48 29.24	1.37 1.78 2.29
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	8.01 8.52 9.04	4.23 4.69 5.16	0.11 0.19 0.29
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	8.01 8.52 9.04	4.23 4.69 5.16	0.11 0.19 0.29
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	8.01 8.52 9.04	4.23 4.69 5.16	0.11 0.19 0.29
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.96 2.14 2.32	0.98 1.11 1.25	0.06 0.08 0.10
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.96 2.14 2.32	0.98 1.11 1.25	0.06 0.08 0.10
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.96 2.14 2.32	0.98 1.11 1.25	0.06 0.08 0.10
TA08025-B605	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.96 2.14 2.32	1.13 1.27 1.41	0.08 0.09 0.11

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
TA08025-B605	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.96 2.14 2.32	1.13 1.27 1.41	0.08 0.09 0.11
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.96 2.14 2.32	1.13 1.27 1.41	0.08 0.09 0.11
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	2.01 2.19 2.37	1.17 1.31 1.46	0.02 0.04 0.06
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
Commscope MC-PK8-DSH	C	None		0.0000	117.00	No Ice 1/2" Ice 1" Ice	34.24 62.95 91.66	34.24 62.95 91.66	1.75 2.10 2.45
******									
KS24019-L112A	A	From Leg	3.00 0.00 1.00	0.0000	85.00	No Ice 1/2" Ice 1" Ice	0.14 0.20 0.26	0.14 0.20 0.26	0.01 0.01 0.01
KS24019-L112D	A	From Leg	3.00 0.00 1.00	0.0000	85.00	No Ice 1/2" Ice 1" Ice	0.14 0.20 0.26	0.14 0.20 0.26	0.01 0.01 0.01
Side Arm Mount [SO 701-1]	A	From Leg	1.50 0.00 0.00	0.0000	85.00	No Ice 1/2" Ice 1" Ice	0.85 1.14 1.43	1.67 2.34 3.01	0.07 0.08 0.09
******									

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

Comb. No.	Description
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 145	Pole	Max Tension	26	0.00	-0.00	0.00
			Max. Compression	26	-8.92	0.86	-0.54
			Max. Mx	20	-4.45	25.25	-0.25
			Max. My	14	-4.47	0.41	-24.97
			Max. Vy	20	-5.55	25.25	-0.25
			Max. Vx	14	5.52	0.41	-24.97
			Max. Torque	12			-0.68
L2	145 - 140	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-9.36	0.93	-0.50
			Max. Mx	20	-4.71	53.52	-0.23
			Max. My	14	-4.73	0.45	-53.06
			Max. Vy	20	-5.76	53.52	-0.23
			Max. Vx	14	5.73	0.45	-53.06
			Max. Torque	12			-0.68
L3	140 - 135	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.69	0.70	-0.71
			Max. Mx	20	-8.81	105.98	-0.20
			Max. My	14	-8.85	0.33	-105.32
			Max. Vy	20	-10.63	105.98	-0.20
			Max. Vx	14	10.55	0.33	-105.32
			Max. Torque	24			0.68
L4	135 - 130	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-18.35	0.78	-0.74
			Max. Mx	20	-9.26	159.67	-0.13
			Max. My	14	-9.31	0.30	-158.51
			Max. Vy	20	-10.85	159.67	-0.13

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	14	10.74	0.30	-158.51
			Max. Torque	22			0.62
L5	130 - 123.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.71	1.02	-0.66
			Max. Mx	20	-13.05	212.34	-0.11
			Max. My	14	-13.10	0.51	-210.77
			Max. Vy	20	-14.75	212.34	-0.11
			Max. Vx	2	-14.67	0.63	210.31
			Max. Torque	10			-0.65
L6	123.42 - 121.59	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.77	1.10	-0.69
			Max. Mx	20	-13.82	286.70	-0.19
			Max. My	14	-13.88	0.64	-284.65
			Max. Vy	20	-15.00	286.70	-0.19
			Max. Vx	2	-14.90	0.60	284.20
			Max. Torque	10			-0.65
L7	121.59 - 117	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.57	1.18	-0.72
			Max. Mx	20	-14.46	355.87	-0.27
			Max. My	14	-14.52	0.77	-353.28
			Max. Vy	20	-15.17	355.87	-0.27
			Max. Vx	2	-15.05	0.56	352.85
			Max. Torque	10			-0.65
L8	117 - 116.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-32.52	1.19	-0.42
			Max. Mx	20	-17.51	360.32	-0.17
			Max. My	14	-17.57	0.78	-357.58
			Max. Vy	20	-17.81	360.32	-0.17
			Max. Vx	2	-17.69	0.56	357.39
			Max. Torque	10			-0.51
L9	116.75 - 111.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.85	1.25	-0.43
			Max. Mx	20	-18.49	450.60	-0.25
			Max. My	14	-18.58	0.90	-446.60
			Max. Vy	20	-18.31	450.60	-0.25
			Max. Vx	2	-17.94	0.51	446.43
			Max. Torque	10			-0.50
L10	111.75 - 106.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35.22	1.32	-0.45
			Max. Mx	20	-19.53	542.91	-0.32
			Max. My	14	-19.61	1.03	-536.82
			Max. Vy	20	-18.62	542.91	-0.32
			Max. Vx	2	-18.18	0.47	536.69
			Max. Torque	10			-0.50
L11	106.75 - 101.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-36.60	1.38	-0.46
			Max. Mx	20	-20.58	636.75	-0.39
			Max. My	14	-20.68	1.16	-628.22
			Max. Vy	20	-18.92	636.75	-0.39
			Max. Vx	2	-18.41	0.42	628.12
			Max. Torque	10			-0.50
L12	101.75 - 96.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.00	1.44	-0.48
			Max. Mx	20	-21.67	732.06	-0.46
			Max. My	14	-21.76	1.29	-720.76
			Max. Vy	20	-19.21	732.06	-0.46
			Max. Vx	2	-18.64	0.38	720.69
			Max. Torque	10			-0.50
L13	96.75 - 91.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.43	1.49	-0.49
			Max. Mx	20	-22.78	828.79	-0.53
			Max. My	14	-22.87	1.42	-814.41
			Max. Vy	20	-19.49	828.79	-0.53

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-18.86	0.33	814.38
			Max. Torque	10			-0.50
L14	91.75 - 85.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.95	1.50	-0.49
			Max. Mx	20	-23.15	862.25	-0.56
			Max. My	14	-23.25	1.46	-846.69
			Max. Vy	20	-19.67	862.25	-0.56
			Max. Vx	2	-18.94	0.32	846.67
			Max. Torque	10			-0.50
L15	85.96 - 84.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.66	1.55	-0.15
			Max. Mx	20	-25.25	963.80	-0.38
			Max. My	2	-25.37	0.27	943.98
			Max. Vy	20	-20.34	963.80	-0.38
			Max. Vx	2	-19.32	0.27	943.98
			Max. Torque	10			-0.50
L16	84.96 - 79.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.45	1.59	-0.15
			Max. Mx	20	-26.66	1066.28	-0.45
			Max. My	2	-26.78	0.23	1041.15
			Max. Vy	20	-20.66	1066.28	-0.45
			Max. Vx	2	-19.57	0.23	1041.15
			Max. Torque	12			-0.35
L17	79.96 - 74.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-46.26	1.63	-0.16
			Max. Mx	20	-28.10	1170.36	-0.52
			Max. My	2	-28.21	0.18	1139.55
			Max. Vy	20	-20.98	1170.36	-0.52
			Max. Vx	2	-19.81	0.18	1139.55
			Max. Torque	12			-0.35
L18	74.96 - 69.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48.09	1.68	-0.16
			Max. Mx	20	-29.56	1275.98	-0.59
			Max. My	2	-29.67	0.14	1239.16
			Max. Vy	20	-21.28	1275.98	-0.59
			Max. Vx	2	-20.05	0.14	1239.16
			Max. Torque	12			-0.35
L19	69.96 - 64.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.95	1.72	-0.17
			Max. Mx	20	-31.05	1383.09	-0.65
			Max. My	2	-31.15	0.10	1339.94
			Max. Vy	20	-21.58	1383.09	-0.65
			Max. Vx	2	-20.28	0.10	1339.94
			Max. Torque	12			-0.35
L20	64.96 - 60.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-51.62	1.76	-0.17
			Max. Mx	20	-32.39	1479.85	-0.71
			Max. My	2	-32.49	0.07	1430.79
			Max. Vy	20	-21.83	1479.85	-0.71
			Max. Vx	2	-20.48	0.07	1430.79
			Max. Torque	12			-0.35
L21	60.5 - 60.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-51.72	1.76	-0.18
			Max. Mx	20	-32.48	1485.31	-0.71
			Max. My	2	-32.58	0.06	1435.91
			Max. Vy	20	-21.84	1485.31	-0.71
			Max. Vx	2	-20.49	0.06	1435.91
			Max. Torque	12			-0.35
L22	60.25 - 55.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.62	1.81	-0.18
			Max. Mx	20	-34.01	1595.13	-0.78
			Max. My	2	-34.10	0.02	1538.86

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	20	-22.11	1595.13	-0.78
			Max. Vx	2	-20.71	0.02	1538.86
			Max. Torque	12			-0.35
L23	55.25 - 50.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.55	1.85	-0.19
			Max. Mx	20	-35.56	1706.27	-0.84
			Max. My	2	-35.65	-0.01	1642.88
			Max. Vy	20	-22.36	1706.27	-0.84
			Max. Vx	2	-20.92	-0.01	1642.88
			Max. Torque	12			-0.35
L24	50.25 - 42.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.59	1.88	-0.19
			Max. Mx	20	-36.40	1766.14	-0.87
			Max. My	2	-36.49	-0.03	1698.84
			Max. Vy	20	-22.50	1766.14	-0.87
			Max. Vx	2	-21.03	-0.03	1698.84
			Max. Torque	12			-0.35
L25	42.41 - 41.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.69	1.94	-0.20
			Max. Mx	20	-39.78	1906.24	-0.95
			Max. My	2	-39.86	-0.08	1829.70
			Max. Vy	20	-22.91	1906.24	-0.95
			Max. Vx	2	-21.39	-0.08	1829.70
			Max. Torque	12			-0.35
L26	41.41 - 36.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.81	1.99	-0.20
			Max. Mx	20	-41.54	2021.33	-1.01
			Max. My	2	-41.61	-0.11	1937.07
			Max. Vy	20	-23.14	2021.33	-1.01
			Max. Vx	2	-21.58	-0.11	1937.07
			Max. Torque	12			-0.35
L27	36.41 - 31.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.95	2.04	-0.21
			Max. Mx	20	-43.31	2137.48	-1.07
			Max. My	2	-43.38	-0.15	2045.34
			Max. Vy	20	-23.34	2137.48	-1.07
			Max. Vx	2	-21.75	-0.15	2045.34
			Max. Torque	12			-0.35
L28	31.41 - 30.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.35	2.05	-0.21
			Max. Mx	20	-43.64	2158.73	-1.08
			Max. My	2	-43.70	-0.15	2065.13
			Max. Vy	20	-23.38	2158.73	-1.08
			Max. Vx	2	-21.78	-0.15	2065.13
			Max. Torque	12			-0.35
L29	30.5 - 30.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65.46	2.06	-0.21
			Max. Mx	20	-43.74	2164.58	-1.09
			Max. My	2	-43.80	-0.16	2070.58
			Max. Vy	20	-23.38	2164.58	-1.09
			Max. Vx	2	-21.79	-0.16	2070.58
			Max. Torque	12			-0.35
L30	30.25 - 25.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.63	2.11	-0.22
			Max. Mx	20	-45.54	2281.94	-1.14
			Max. My	2	-45.59	-0.19	2179.88
			Max. Vy	20	-23.57	2281.94	-1.14
			Max. Vx	2	-21.95	-0.19	2179.88
			Max. Torque	12			-0.35
L31	25.25 - 20.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.83	2.17	-0.23
			Max. Mx	20	-47.38	2400.23	-1.20

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	2	-47.42	-0.22	2289.99
			Max. Vy	20	-23.76	2400.23	-1.20
			Max. Vx	2	-22.11	-0.22	2289.99
			Max. Torque	12			-0.35
L32	20.25 - 18	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70.84	2.19	-0.26
			Max. Mx	20	-48.22	2453.79	-1.23
			Max. My	2	-48.26	-0.24	2339.79
			Max. Vy	20	-23.87	2453.79	-1.23
			Max. Vx	2	-22.19	-0.24	2339.79
			Max. Torque	12			-0.35
L33	18 - 17.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70.96	2.19	-0.26
			Max. Mx	20	-48.32	2459.76	-1.23
			Max. My	2	-48.36	-0.24	2345.34
			Max. Vy	20	-23.87	2459.76	-1.23
			Max. Vx	2	-22.19	-0.24	2345.34
			Max. Torque	12			-0.35
L34	17.75 - 12.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-73.20	2.25	-0.29
			Max. Mx	20	-50.20	2579.58	-1.29
			Max. My	2	-50.22	-0.27	2456.60
			Max. Vy	20	-24.07	2579.58	-1.29
			Max. Vx	2	-22.34	-0.27	2456.60
			Max. Torque	12			-0.35
L35	12.75 - 7.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-75.44	2.31	-0.30
			Max. Mx	20	-52.11	2700.26	-1.34
			Max. My	2	-52.12	-0.29	2568.58
			Max. Vy	20	-24.23	2700.26	-1.34
			Max. Vx	2	-22.48	-0.29	2568.58
			Max. Torque	12			-0.35
L36	7.75 - 3.916	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.16	2.36	-0.30
			Max. Mx	20	-53.59	2793.34	-1.38
			Max. My	2	-53.60	-0.32	2654.94
			Max. Vy	20	-24.35	2793.34	-1.38
			Max. Vx	2	-22.60	-0.32	2654.94
			Max. Torque	12			-0.35
L37	3.916 - 3.666	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-77.27	2.37	-0.30
			Max. Mx	20	-53.69	2799.43	-1.39
			Max. My	2	-53.70	-0.32	2660.59
			Max. Vy	20	-24.34	2799.43	-1.39
			Max. Vx	2	-22.59	-0.32	2660.59
			Max. Torque	12			-0.35
L38	3.666 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-78.83	2.41	-0.31
			Max. Mx	20	-55.05	2888.86	-1.43
			Max. My	2	-55.06	-0.34	2743.56
			Max. Vy	20	-24.46	2888.86	-1.43
			Max. Vx	2	-22.70	-0.34	2743.56
			Max. Torque	12			-0.35

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	78.83	6.40	-0.00
	Max. H_x	20	55.07	24.43	-0.02
	Max. H_z	2	55.07	-0.02	22.68
	Max. M_x	2	2743.56	-0.02	22.68

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. M_z	8	2885.31	-24.43	0.02
	Max. Torsion	24	0.34	11.56	20.05
	Min. Vert	7	41.30	-19.67	11.37
	Min. H_x	8	55.07	-24.43	0.02
	Min. H_z	14	55.07	0.02	-22.68
	Min. M_x	14	-2742.20	0.02	-22.68
	Min. M_z	20	-2888.86	24.43	-0.02
	Min. Torsion	12	-0.35	-11.56	-20.05

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	45.89	0.00	0.00	-0.54	1.37	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	55.07	0.02	-22.68	-2743.56	-0.34	-0.26
0.9 Dead+1.0 Wind 0 deg - No Ice	41.30	0.02	-22.68	-2693.12	-0.78	-0.25
1.2 Dead+1.0 Wind 30 deg - No Ice	55.07	11.38	-19.71	-2383.82	-1374.13	-0.11
0.9 Dead+1.0 Wind 30 deg - No Ice	41.30	11.38	-19.71	-2340.00	-1349.42	-0.10
1.2 Dead+1.0 Wind 60 deg - No Ice	55.07	19.67	-11.37	-1376.79	-2377.49	0.06
0.9 Dead+1.0 Wind 60 deg - No Ice	41.30	19.67	-11.37	-1351.39	-2334.36	0.07
1.2 Dead+1.0 Wind 90 deg - No Ice	55.07	24.43	-0.02	-2.80	-2885.31	0.24
0.9 Dead+1.0 Wind 90 deg - No Ice	41.30	24.43	-0.02	-2.59	-2833.63	0.23
1.2 Dead+1.0 Wind 120 deg - No Ice	55.07	20.09	11.60	1396.49	-2418.23	0.33
0.9 Dead+1.0 Wind 120 deg - No Ice	41.30	20.09	11.60	1371.17	-2374.54	0.32
1.2 Dead+1.0 Wind 150 deg - No Ice	55.07	11.56	20.05	2410.61	-1387.96	0.35
0.9 Dead+1.0 Wind 150 deg - No Ice	41.30	11.56	20.05	2366.79	-1363.08	0.33
1.2 Dead+1.0 Wind 180 deg - No Ice	55.07	-0.02	22.68	2742.20	3.89	0.27
0.9 Dead+1.0 Wind 180 deg - No Ice	41.30	-0.02	22.68	2692.11	3.38	0.25
1.2 Dead+1.0 Wind 210 deg - No Ice	55.07	-11.38	19.71	2382.45	1377.70	0.11
0.9 Dead+1.0 Wind 210 deg - No Ice	41.30	-11.38	19.71	2338.98	1352.02	0.10
1.2 Dead+1.0 Wind 240 deg - No Ice	55.07	-19.67	11.37	1375.41	2381.05	-0.07
0.9 Dead+1.0 Wind 240 deg - No Ice	41.30	-19.67	11.37	1350.37	2336.96	-0.07
1.2 Dead+1.0 Wind 270 deg - No Ice	55.07	-24.43	0.02	1.43	2888.86	-0.24
0.9 Dead+1.0 Wind 270 deg - No Ice	41.30	-24.43	0.02	1.57	2836.23	-0.24
1.2 Dead+1.0 Wind 300 deg - No Ice	55.07	-20.09	-11.60	-1397.86	2421.77	-0.33
0.9 Dead+1.0 Wind 300 deg - No Ice	41.30	-20.09	-11.60	-1372.18	2377.13	-0.32
1.2 Dead+1.0 Wind 330 deg - No Ice	55.07	-11.56	-20.05	-2411.97	1391.50	-0.34
0.9 Dead+1.0 Wind 330 deg - No Ice	41.30	-11.56	-20.05	-2367.80	1365.67	-0.33
1.2 Dead+1.0 Ice+1.0 Temp	78.83	-0.00	0.00	0.31	2.41	-0.00
1.2 Dead+1.0 Wind 0	78.83	0.00	-6.32	-773.58	2.25	-0.11

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
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	78.83	3.17	-5.48	-670.08	-384.61	-0.07
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	78.83	5.48	-3.16	-386.95	-667.72	-0.01
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	78.83	6.40	-0.00	-0.05	-778.85	0.05
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	78.83	5.48	3.16	386.96	-667.35	0.10
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	78.83	3.16	5.48	670.37	-383.96	0.12
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	78.83	-0.00	6.32	774.24	3.00	0.11
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	78.83	-3.17	5.48	670.74	389.87	0.07
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	78.83	-5.48	3.16	387.61	672.98	0.01
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	78.83	-6.40	0.00	0.70	784.11	-0.05
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	78.83	-5.48	-3.16	-386.30	672.60	-0.10
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	78.83	-3.16	-5.48	-669.71	389.22	-0.12
Dead+Wind 0 deg - Service	45.89	0.00	-5.62	-672.96	0.95	-0.06
Dead+Wind 30 deg - Service	45.89	2.82	-4.88	-584.78	-335.83	-0.03
Dead+Wind 60 deg - Service	45.89	4.87	-2.82	-337.91	-581.80	0.01
Dead+Wind 90 deg - Service	45.89	6.05	-0.00	-1.08	-706.45	0.05
Dead+Wind 120 deg - Service	45.89	4.98	2.87	341.97	-591.83	0.08
Dead+Wind 150 deg - Service	45.89	2.86	4.97	590.59	-339.24	0.08
Dead+Wind 180 deg - Service	45.89	-0.00	5.62	671.83	1.98	0.06
Dead+Wind 210 deg - Service	45.89	-2.82	4.88	583.65	338.76	0.03
Dead+Wind 240 deg - Service	45.89	-4.87	2.82	336.78	584.73	-0.01
Dead+Wind 270 deg - Service	45.89	-6.05	0.00	-0.04	709.38	-0.06
Dead+Wind 300 deg - Service	45.89	-4.98	-2.87	-343.10	594.76	-0.08
Dead+Wind 330 deg - Service	45.89	-2.86	-4.97	-591.71	342.17	-0.08

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	0.00	-45.89	0.00	0.00	45.89	0.00	0.000%
2	0.02	-55.07	-22.68	-0.02	55.07	22.68	0.000%
3	0.02	-41.30	-22.68	-0.02	41.30	22.68	0.000%
4	11.38	-55.07	-19.71	-11.38	55.07	19.71	0.000%
5	11.38	-41.30	-19.71	-11.38	41.30	19.71	0.000%
6	19.67	-55.07	-11.37	-19.67	55.07	11.37	0.000%
7	19.67	-41.30	-11.37	-19.67	41.30	11.37	0.000%
8	24.43	-55.07	-0.02	-24.43	55.07	0.02	0.000%
9	24.43	-41.30	-0.02	-24.43	41.30	0.02	0.000%
10	20.09	-55.07	11.60	-20.09	55.07	-11.60	0.000%
11	20.09	-41.30	11.60	-20.09	41.30	-11.60	0.000%
12	11.56	-55.07	20.05	-11.56	55.07	-20.05	0.000%
13	11.56	-41.30	20.05	-11.56	41.30	-20.05	0.000%
14	-0.02	-55.07	22.68	0.02	55.07	-22.68	0.000%
15	-0.02	-41.30	22.68	0.02	41.30	-22.68	0.000%
16	-11.38	-55.07	19.71	11.38	55.07	-19.71	0.000%
17	-11.38	-41.30	19.71	11.38	41.30	-19.71	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
18	-19.67	-55.07	11.37	19.67	55.07	-11.37	0.000%
19	-19.67	-41.30	11.37	19.67	41.30	-11.37	0.000%
20	-24.43	-55.07	0.02	24.43	55.07	-0.02	0.000%
21	-24.43	-41.30	0.02	24.43	41.30	-0.02	0.000%
22	-20.09	-55.07	-11.60	20.09	55.07	11.60	0.000%
23	-20.09	-41.30	-11.60	20.09	41.30	11.60	0.000%
24	-11.56	-55.07	-20.05	11.56	55.07	20.05	0.000%
25	-11.56	-41.30	-20.05	11.56	41.30	20.05	0.000%
26	0.00	-78.83	0.00	0.00	78.83	-0.00	0.000%
27	0.00	-78.83	-6.32	-0.00	78.83	6.32	0.000%
28	3.17	-78.83	-5.48	-3.17	78.83	5.48	0.000%
29	5.48	-78.83	-3.16	-5.48	78.83	3.16	0.000%
30	6.40	-78.83	-0.00	-6.40	78.83	0.00	0.000%
31	5.48	-78.83	3.16	-5.48	78.83	-3.16	0.000%
32	3.16	-78.83	5.48	-3.16	78.83	-5.48	0.000%
33	-0.00	-78.83	6.32	0.00	78.83	-6.32	0.000%
34	-3.17	-78.83	5.48	3.17	78.83	-5.48	0.000%
35	-5.48	-78.83	3.16	5.48	78.83	-3.16	0.000%
36	-6.40	-78.83	0.00	6.40	78.83	-0.00	0.000%
37	-5.48	-78.83	-3.16	5.48	78.83	3.16	0.000%
38	-3.16	-78.83	-5.48	3.16	78.83	5.48	0.000%
39	0.00	-45.89	-5.62	-0.00	45.89	5.62	0.000%
40	2.82	-45.89	-4.88	-2.82	45.89	4.88	0.000%
41	4.87	-45.89	-2.82	-4.87	45.89	2.82	0.000%
42	6.05	-45.89	-0.00	-6.05	45.89	0.00	0.000%
43	4.98	-45.89	2.87	-4.98	45.89	-2.87	0.000%
44	2.86	-45.89	4.97	-2.86	45.89	-4.97	0.000%
45	-0.00	-45.89	5.62	0.00	45.89	-5.62	0.000%
46	-2.82	-45.89	4.88	2.82	45.89	-4.88	0.000%
47	-4.87	-45.89	2.82	4.87	45.89	-2.82	0.000%
48	-6.05	-45.89	0.00	6.05	45.89	-0.00	0.000%
49	-4.98	-45.89	-2.87	4.98	45.89	2.87	0.000%
50	-2.86	-45.89	-4.97	2.86	45.89	4.97	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	0.00057718
3	Yes	5	0.00000001	0.00023595
4	Yes	7	0.00000001	0.00027550
5	Yes	7	0.00000001	0.00006831
6	Yes	7	0.00000001	0.00027527
7	Yes	7	0.00000001	0.00006820
8	Yes	5	0.00000001	0.00057827
9	Yes	5	0.00000001	0.00024710
10	Yes	7	0.00000001	0.00028358
11	Yes	7	0.00000001	0.00007010
12	Yes	7	0.00000001	0.00027665
13	Yes	7	0.00000001	0.00006836
14	Yes	5	0.00000001	0.00068642
15	Yes	5	0.00000001	0.00029380
16	Yes	7	0.00000001	0.00027694
17	Yes	7	0.00000001	0.00006860
18	Yes	7	0.00000001	0.00027749
19	Yes	7	0.00000001	0.00006878
20	Yes	5	0.00000001	0.00068971
21	Yes	5	0.00000001	0.00030801
22	Yes	7	0.00000001	0.00027997
23	Yes	7	0.00000001	0.00006898
24	Yes	7	0.00000001	0.00028186
25	Yes	7	0.00000001	0.00006970
26	Yes	4	0.00000001	0.00022276
27	Yes	7	0.00000001	0.00019085
28	Yes	7	0.00000001	0.00024215

29	Yes	7	0.00000001	0.00024240
30	Yes	7	0.00000001	0.00019132
31	Yes	7	0.00000001	0.00024348
32	Yes	7	0.00000001	0.00024227
33	Yes	7	0.00000001	0.00019150
34	Yes	7	0.00000001	0.00024648
35	Yes	7	0.00000001	0.00024617
36	Yes	7	0.00000001	0.00019352
37	Yes	7	0.00000001	0.00024448
38	Yes	7	0.00000001	0.00024575
39	Yes	5	0.00000001	0.00008982
40	Yes	5	0.00000001	0.00063441
41	Yes	5	0.00000001	0.00063416
42	Yes	5	0.00000001	0.00009225
43	Yes	5	0.00000001	0.00066928
44	Yes	5	0.00000001	0.00063378
45	Yes	5	0.00000001	0.00009034
46	Yes	5	0.00000001	0.00064758
47	Yes	5	0.00000001	0.00064958
48	Yes	5	0.00000001	0.00009340
49	Yes	5	0.00000001	0.00065154
50	Yes	5	0.00000001	0.00067010

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	27.645	48	1.8782	0.0045
L2	145 - 140	25.684	48	1.8622	0.0035
L3	140 - 135	23.754	48	1.8203	0.0027
L4	135 - 130	21.882	48	1.7510	0.0021
L5	130 - 123.42	20.097	48	1.6544	0.0015
L6	126.59 - 121.59	18.944	48	1.5736	0.0012
L7	121.59 - 117	17.331	48	1.4937	0.0009
L8	117 - 116.75	15.948	48	1.3816	0.0007
L9	116.75 - 111.75	15.876	48	1.3787	0.0007
L10	111.75 - 106.75	14.465	48	1.3160	0.0006
L11	106.75 - 101.75	13.122	48	1.2473	0.0005
L12	101.75 - 96.75	11.854	48	1.1738	0.0004
L13	96.75 - 91.75	10.665	48	1.0973	0.0003
L14	91.75 - 85.96	9.557	48	1.0184	0.0003
L15	90.04 - 84.96	9.198	48	0.9915	0.0003
L16	84.96 - 79.96	8.162	48	0.9512	0.0002
L17	79.96 - 74.96	7.198	48	0.8898	0.0002
L18	74.96 - 69.96	6.299	48	0.8270	0.0002
L19	69.96 - 64.96	5.466	48	0.7643	0.0002
L20	64.96 - 60.5	4.698	48	0.7018	0.0002
L21	60.5 - 60.25	4.069	48	0.6461	0.0001
L22	60.25 - 55.25	4.035	48	0.6430	0.0001
L23	55.25 - 50.25	3.395	48	0.5808	0.0001
L24	50.25 - 42.41	2.818	48	0.5202	0.0001
L25	47.58 - 41.41	2.536	48	0.4879	0.0001
L26	41.41 - 36.41	1.929	48	0.4467	0.0001
L27	36.41 - 31.41	1.491	48	0.3909	0.0001
L28	31.41 - 30.5	1.110	48	0.3367	0.0001
L29	30.5 - 30.25	1.047	48	0.3268	0.0001
L30	30.25 - 25.25	1.030	48	0.3241	0.0001
L31	25.25 - 20.25	0.718	48	0.2708	0.0000
L32	20.25 - 18	0.463	48	0.2179	0.0000
L33	18 - 17.75	0.365	48	0.1947	0.0000
L34	17.75 - 12.75	0.355	48	0.1919	0.0000
L35	12.75 - 7.75	0.183	48	0.1369	0.0000
L36	7.75 - 3.916	0.068	48	0.0835	0.0000
L37	3.916 - 3.666	0.017	48	0.0426	0.0000
L38	3.666 - 0	0.015	48	0.0400	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
150.00	8' x 2" Mount Pipe	48	27.645	1.8782	0.0045	9586
148.00	800MHZ RRH	48	26.859	1.8736	0.0041	9586
140.00	Platform Mount [LP 712-1]	48	23.754	1.8203	0.0027	5230
130.00	AM-X-CD-16-65-00T-RET w/ Mount Pipe	48	20.097	1.6544	0.0015	2775
117.00	MX08FRO665-21 w/ Mount Pipe	48	15.948	1.3816	0.0007	3110
85.00	KS24019-L112A	48	8.170	0.9516	0.0002	5433

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	112.621	20	7.6489	0.0183
L2	145 - 140	104.656	20	7.5890	0.0146
L3	140 - 135	96.811	20	7.4223	0.0114
L4	135 - 130	89.193	20	7.1423	0.0087
L5	130 - 123.42	81.929	20	6.7498	0.0064
L6	126.59 - 121.59	77.233	20	6.4212	0.0050
L7	121.59 - 117	70.663	20	6.0960	0.0039
L8	117 - 116.75	65.029	20	5.6395	0.0028
L9	116.75 - 111.75	64.735	20	5.6275	0.0028
L10	111.75 - 106.75	58.983	20	5.3719	0.0024
L11	106.75 - 101.75	53.510	20	5.0916	0.0020
L12	101.75 - 96.75	48.341	20	4.7915	0.0017
L13	96.75 - 91.75	43.492	20	4.4789	0.0014
L14	91.75 - 85.96	38.975	20	4.1569	0.0012
L15	90.04 - 84.96	37.507	20	4.0468	0.0011
L16	84.96 - 79.96	33.282	20	3.8825	0.0010
L17	79.96 - 74.96	29.351	20	3.6313	0.0009
L18	74.96 - 69.96	25.685	20	3.3751	0.0008
L19	69.96 - 64.96	22.287	20	3.1189	0.0007
L20	64.96 - 60.5	19.157	20	2.8633	0.0006
L21	60.5 - 60.25	16.590	20	2.6359	0.0006
L22	60.25 - 55.25	16.452	20	2.6233	0.0006
L23	55.25 - 50.25	13.839	20	2.3694	0.0005
L24	50.25 - 42.41	11.489	20	2.1220	0.0004
L25	47.58 - 41.41	10.339	20	1.9898	0.0004
L26	41.41 - 36.41	7.864	20	1.8219	0.0003
L27	36.41 - 31.41	6.077	20	1.5939	0.0003
L28	31.41 - 30.5	4.524	20	1.3726	0.0002
L29	30.5 - 30.25	4.266	20	1.3325	0.0002
L30	30.25 - 25.25	4.197	20	1.3215	0.0002
L31	25.25 - 20.25	2.928	20	1.1038	0.0002
L32	20.25 - 18	1.885	20	0.8882	0.0002
L33	18 - 17.75	1.489	20	0.7933	0.0001
L34	17.75 - 12.75	1.448	20	0.7820	0.0001
L35	12.75 - 7.75	0.747	20	0.5578	0.0001
L36	7.75 - 3.916	0.277	20	0.3401	0.0001
L37	3.916 - 3.666	0.071	20	0.1737	0.0000
L38	3.666 - 0	0.062	20	0.1627	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
150.00	8' x 2" Mount Pipe	20	112.621	7.6489	0.0183	2554
148.00	800MHZ RRH	20	109.428	7.6323	0.0168	2554

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.00	Platform Mount [LP 712-1]	20	96.811	7.4223	0.0114	1349
130.00	AM-X-CD-16-65-00T-RET w/ Mount Pipe	20	81.929	6.7498	0.0064	701
117.00	MX08FRO665-21 w/ Mount Pipe	20	65.029	5.6395	0.0028	777
85.00	KS24019-L112A	20	33.315	3.8839	0.0010	1341

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	150 - 145 (1)	TP16.0647x15x0.1875	5.00	0.00	0.0	9.4489	-4.46	552.76	0.008
L2	145 - 140 (2)	TP17.1294x16.0647x0.1875	5.00	0.00	0.0	10.0826	-4.72	589.83	0.008
L3	140 - 135 (3)	TP18.1941x17.1294x0.1875	5.00	0.00	0.0	10.7162	-8.81	626.90	0.014
L4	135 - 130 (4)	TP19.2588x18.1941x0.1875	5.00	0.00	0.0	11.3498	-9.26	663.97	0.014
L5	130 - 123.42 (5)	TP20.66x19.2588x0.1875	6.58	0.00	0.0	11.7820	-13.05	689.25	0.019
L6	123.42 - 121.59 (6)	TP20.6769x19.61x0.25	5.00	0.00	0.0	16.2088	-13.82	948.21	0.015
L7	121.59 - 117 (7)	TP21.6564x20.6769x0.25	4.59	0.00	0.0	16.9860	-14.46	993.68	0.015
L8	117 - 116.75 (8)	TP21.7097x21.6564x0.5625	0.25	0.00	0.0	37.7557	-17.51	2208.71	0.008
L9	116.75 - 111.75 (9)	TP22.7767x21.7097x0.55	5.00	0.00	0.0	38.8011	-18.49	2269.87	0.008
L10	111.75 - 106.75 (10)	TP23.8436x22.7767x0.5313	5.00	0.00	0.0	39.3090	-19.53	2299.58	0.008
L11	106.75 - 101.75 (11)	TP24.9106x23.8436x0.5125	5.00	0.00	0.0	39.6877	-20.58	2321.73	0.009
L12	101.75 - 96.75 (12)	TP25.9775x24.9106x0.5	5.00	0.00	0.0	40.4328	-21.67	2365.32	0.009
L13	96.75 - 91.75 (13)	TP27.0445x25.9775x0.4875	5.00	0.00	0.0	41.0923	-22.78	2403.90	0.009
L14	91.75 - 85.96 (14)	TP28.28x27.0445x0.4875	5.79	0.00	0.0	41.6569	-23.15	2436.93	0.009
L15	85.96 - 84.96 (15)	TP27.9931x26.9094x0.675	5.08	0.00	0.0	58.5276	-25.25	3423.86	0.007
L16	84.96 - 79.96 (16)	TP29.0597x27.9931x0.6625	5.00	0.00	0.0	59.7129	-26.66	3493.20	0.008
L17	79.96 - 74.96 (17)	TP30.1263x29.0597x0.6375	5.00	0.00	0.0	59.6684	-28.10	3490.60	0.008
L18	74.96 - 69.96 (18)	TP31.1929x30.1263x0.625	5.00	0.00	0.0	60.6391	-29.56	3547.39	0.008
L19	69.96 - 64.96 (19)	TP32.2595x31.1929x0.6125	5.00	0.00	0.0	61.5242	-31.05	3599.17	0.009
L20	64.96 - 60.5 (20)	TP33.211x32.2595x0.6	4.46	0.00	0.0	62.1043	-32.39	3633.10	0.009
L21	60.5 - 60.25 (21)	TP33.2643x33.211x0.6	0.25	0.00	0.0	62.2059	-32.48	3639.04	0.009
L22	60.25 - 55.25 (22)	TP34.3309x33.2643x0.5875	5.00	0.00	0.0	62.9222	-34.01	3680.95	0.009
L23	55.25 - 50.25 (23)	TP35.3975x34.3309x0.5875	5.00	0.00	0.0	64.9111	-35.56	3797.30	0.009
L24	50.25 - 42.41 (24)	TP37.07x35.3975x0.575	7.84	0.00	0.0	64.5924	-36.40	3778.65	0.010
L25	42.41 - 41.41 (25)	TP36.6594x35.3421x0.6375	6.17	0.00	0.0	72.8875	-39.78	4263.92	0.009
L26	41.41 - 36.41 (26)	TP37.7268x36.6594x0.625	5.00	0.00	0.0	72.3302	-40.50	4231.32	0.010

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L27	36.41 - 31.41 (27)	TP38.7943x37.7268x0.625	5.00	0.00	0.0	73.6007	-41.55	4305.64	0.010
L28	31.41 - 30.5 (28)	TP38.9885x38.7943x0.6125	0.91	0.00	0.0	74.2282	-43.33	4342.35	0.010
L29	30.5 - 30.25 (29)	TP39.0419x38.9885x0.6125	0.25	0.00	0.0	74.6059	-43.65	4364.44	0.010
L30	30.25 - 25.25 (30)	TP40.1094x39.0419x0.6125	5.00	0.00	0.0	74.7096	-43.75	4370.51	0.010
L31	25.25 - 20.25 (31)	TP41.1768x40.1094x0.6	5.00	0.00	0.0	75.2416	-45.56	4401.64	0.010
L32	20.25 - 18 (32)	TP41.6572x41.1768x0.6	2.25	0.00	0.0	77.2745	-47.40	4520.56	0.010
L33	18 - 17.75 (33)	TP41.7105x41.6572x0.5563	0.25	0.00	0.0	72.5652	-48.23	4245.07	0.011
L34	17.75 - 12.75 (34)	TP42.778x41.7105x0.55	5.00	0.00	0.0	71.8540	-48.33	4203.46	0.011
L35	12.75 - 7.75 (35)	TP43.8454x42.778x0.55	5.00	0.00	0.0	73.7174	-50.21	4312.47	0.012
L36	7.75 - 3.916 (36)	TP44.664x43.8454x0.5375	3.83	0.00	0.0	73.8844	-52.13	4322.24	0.012
L37	3.916 - 3.666 (37)	TP44.7173x44.664x0.525	0.25	0.00	0.0	73.5510	-53.60	4302.73	0.012
L38	3.666 - 0 (38)	TP45.5x44.7173x0.5125	3.67	0.00	0.0	71.9069	-53.70	4206.55	0.013

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	150 - 145 (1)	TP16.0647x15x0.1875	25.30	228.30	0.111	0.00	228.30	0.000
L2	145 - 140 (2)	TP17.1294x16.0647x0.1875	53.58	260.14	0.206	0.00	260.14	0.000
L3	140 - 135 (3)	TP18.1941x17.1294x0.1875	105.98	293.34	0.361	0.00	293.34	0.000
L4	135 - 130 (4)	TP19.2588x18.1941x0.1875	159.67	324.54	0.492	0.00	324.54	0.000
L5	130 - 123.42 (5)	TP20.66x19.2588x0.1875	212.34	346.39	0.613	0.00	346.39	0.000
L6	123.42 - 121.59 (6)	TP20.6769x19.61x0.25	286.70	503.64	0.569	0.00	503.64	0.000
L7	121.59 - 117 (7)	TP21.6564x20.6769x0.25	355.87	553.40	0.643	0.00	553.40	0.000
L8	117 - 116.75 (8)	TP21.7097x21.6564x0.5625	360.32	1197.53	0.301	0.00	1197.53	0.000
L9	116.75 - 111.75 (9)	TP22.7767x21.7097x0.55	450.60	1295.85	0.348	0.00	1295.85	0.000
L10	111.75 - 106.75 (10)	TP23.8436x22.7767x0.5313	542.91	1379.58	0.394	0.00	1379.58	0.000
L11	106.75 - 101.75 (11)	TP24.9106x23.8436x0.5125	636.75	1460.28	0.436	0.00	1460.28	0.000
L12	101.75 - 96.75 (12)	TP25.9775x24.9106x0.5	732.06	1555.62	0.471	0.00	1555.62	0.000
L13	96.75 - 91.75 (13)	TP27.0445x25.9775x0.4875	828.79	1650.03	0.502	0.00	1650.03	0.000
L14	91.75 - 85.96 (14)	TP28.28x27.0445x0.4875	862.25	1696.09	0.508	0.00	1696.09	0.000
L15	85.96 - 84.96 (15)	TP27.9931x26.9094x0.675	963.81	2402.49	0.401	0.00	2402.49	0.000
L16	84.96 - 79.96 (16)	TP29.0597x27.9931x0.6625	1066.28	2551.41	0.418	0.00	2551.41	0.000
L17	79.96 - 74.96 (17)	TP30.1263x29.0597x0.6375	1170.36	2651.95	0.441	0.00	2651.95	0.000
L18	74.96 - 69.96 (18)	TP31.1929x30.1263x0.625	1275.98	2796.93	0.456	0.00	2796.93	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 $\frac{M_{uy}}{\phi M_{ny}}$
L19	69.96 - 64.96 (19)	TP32.2595x31.1929x0.6125	1383.09	2941.07	0.470	0.00	2941.07	0.000
L20	64.96 - 60.5 (20)	TP33.211x32.2595x0.6	1479.85	3062.10	0.483	0.00	3062.10	0.000
L21	60.5 - 60.25 (21)	TP33.2643x33.211x0.6	1485.31	3072.22	0.483	0.00	3072.22	0.000
L22	60.25 - 55.25 (22)	TP34.3309x33.2643x0.5875	1595.13	3213.28	0.496	0.00	3213.28	0.000
L23	55.25 - 50.25 (23)	TP35.3975x34.3309x0.5875	1706.28	3421.43	0.499	0.00	3421.43	0.000
L24	50.25 - 42.41 (24)	TP37.07x35.3975x0.575	1766.13	3463.70	0.510	0.00	3463.70	0.000
L25	42.41 - 41.41 (25)	TP36.6594x35.3421x0.6375	1906.24	3972.39	0.480	0.00	3972.39	0.000
L26	41.41 - 36.41 (26)	TP37.7268x36.6594x0.625	1952.14	3992.30	0.489	0.00	3992.30	0.000
L27	36.41 - 31.41 (27)	TP38.7943x37.7268x0.625	2021.33	4134.98	0.489	0.00	4134.98	0.000
L28	31.41 - 30.5 (28)	TP38.9885x38.7943x0.6125	2137.48	4295.02	0.498	0.00	4295.02	0.000
L29	30.5 - 30.25 (29)	TP39.0419x38.9885x0.6125	2158.73	4339.19	0.497	0.00	4339.19	0.000
L30	30.25 - 25.25 (30)	TP40.1094x39.0419x0.6125	2164.57	4351.36	0.497	0.00	4351.36	0.000
L31	25.25 - 20.25 (31)	TP41.1768x40.1094x0.6	2281.93	4508.83	0.506	0.00	4508.83	0.000
L32	20.25 - 18 (32)	TP41.6572x41.1768x0.6	2400.23	4757.63	0.505	0.00	4757.63	0.000
L33	18 - 17.75 (33)	TP41.7105x41.6572x0.5563	2453.79	4531.00	0.542	0.00	4531.00	0.000
L34	17.75 - 12.75 (34)	TP42.778x41.7105x0.55	2459.76	4493.86	0.547	0.00	4493.86	0.000
L35	12.75 - 7.75 (35)	TP43.8454x42.778x0.55	2579.57	4731.54	0.545	0.00	4731.54	0.000
L36	7.75 - 3.916 (36)	TP44.664x43.8454x0.5375	2700.27	4866.49	0.555	0.00	4866.49	0.000
L37	3.916 - 3.666 (37)	TP44.7173x44.664x0.525	2793.34	4940.01	0.565	0.00	4940.01	0.000
L38	3.666 - 0 (38)	TP45.5x44.7173x0.5125	2799.43	4838.23	0.579	0.00	4838.23	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	150 - 145 (1)	TP16.0647x15x0.1875	5.54	165.83	0.033	0.06	230.58	0.000
L2	145 - 140 (2)	TP17.1294x16.0647x0.1875	5.77	176.95	0.033	0.06	262.54	0.000
L3	140 - 135 (3)	TP18.1941x17.1294x0.1875	10.63	188.07	0.057	0.52	296.57	0.002
L4	135 - 130 (4)	TP19.2588x18.1941x0.1875	10.85	199.19	0.054	0.52	332.68	0.002
L5	130 - 123.42 (5)	TP20.66x19.2588x0.1875	14.75	206.77	0.071	0.60	358.50	0.002
L6	123.42 - 121.59 (6)	TP20.6769x19.61x0.25	15.00	284.46	0.053	0.60	508.87	0.001
L7	121.59 - 117 (7)	TP21.6564x20.6769x0.25	15.17	298.10	0.051	0.60	558.84	0.001
L8	117 - 116.75 (8)	TP21.7097x21.6564x0.5625	17.81	662.61	0.027	0.43	1227.14	0.000
L9	116.75 - 111.75 (9)	TP22.7767x21.7097x0.55	18.31	680.96	0.027	0.43	1325.49	0.000
L10	111.75 - 106.75 (10)	TP23.8436x22.7767x0.5313	18.62	689.87	0.027	0.43	1408.43	0.000
L11	106.75 -	TP24.9106x23.8436x0.51	18.92	696.52	0.027	0.43	1488.22	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 $\frac{T_u}{\phi T_n}$
	101.75 (11)	25						
L12	101.75 - 96.75 (12)	TP25.9775x24.9106x0.5	19.21	709.60	0.027	0.43	1583.25	0.000
L13	96.75 - 91.75 (13)	TP27.0445x25.9775x0.4875	19.49	721.17	0.027	0.43	1677.24	0.000
L14	91.75 - 85.96 (14)	TP28.28x27.0445x0.4875	19.67	731.08	0.027	0.43	1723.65	0.000
L15	85.96 - 84.96 (15)	TP27.9931x26.9094x0.675	20.34	1027.16	0.020	0.44	2457.35	0.000
L16	84.96 - 79.96 (16)	TP29.0597x27.9931x0.6625	20.66	1047.96	0.020	0.24	2606.16	0.000
L17	79.96 - 74.96 (17)	TP30.1263x29.0597x0.6375	20.98	1047.18	0.020	0.24	2704.32	0.000
L18	74.96 - 69.96 (18)	TP31.1929x30.1263x0.625	21.28	1064.22	0.020	0.24	2848.89	0.000
L19	69.96 - 64.96 (19)	TP32.2595x31.1929x0.6125	21.58	1079.75	0.020	0.24	2992.52	0.000
L20	64.96 - 60.5 (20)	TP33.211x32.2595x0.6	21.83	1089.93	0.020	0.24	3112.74	0.000
L21	60.5 - 60.25 (21)	TP33.2643x33.211x0.6	21.84	1091.71	0.020	0.24	3122.93	0.000
L22	60.25 - 55.25 (22)	TP34.3309x33.2643x0.5875	22.11	1104.28	0.020	0.24	3263.25	0.000
L23	55.25 - 50.25 (23)	TP35.3975x34.3309x0.5875	22.36	1139.19	0.020	0.24	3472.81	0.000
L24	50.25 - 42.41 (24)	TP37.07x35.3975x0.575	22.50	1133.60	0.020	0.24	3513.54	0.000
L25	42.41 - 41.41 (25)	TP36.6594x35.3421x0.6375	22.91	1279.18	0.018	0.24	4035.31	0.000
L26	41.41 - 36.41 (26)	TP37.7268x36.6594x0.625	23.05	1276.83	0.018	0.24	4053.30	0.000
L27	36.41 - 31.41 (27)	TP38.7943x37.7268x0.625	23.18	1299.13	0.018	0.24	4196.95	0.000
L28	31.41 - 30.5 (28)	TP38.9885x38.7943x0.6125	23.38	1309.33	0.018	0.24	4355.94	0.000
L29	30.5 - 30.25 (29)	TP39.0419x38.9885x0.6125	23.38	1311.15	0.018	0.24	4400.38	0.000
L30	30.25 - 25.25 (30)	TP40.1094x39.0419x0.6125	23.42	1318.44	0.018	0.24	4412.63	0.000
L31	25.25 - 20.25 (31)	TP41.1768x40.1094x0.6	23.61	1327.63	0.018	0.24	4568.94	0.000
L32	20.25 - 18 (32)	TP41.6572x41.1768x0.6	23.81	1364.19	0.017	0.24	4819.16	0.000
L33	18 - 17.75 (33)	TP41.7105x41.6572x0.5563	23.87	1275.17	0.019	0.24	4583.93	0.000
L34	17.75 - 12.75 (34)	TP42.778x41.7105x0.55	23.92	1267.58	0.019	0.24	4545.57	0.000
L35	12.75 - 7.75 (35)	TP43.8454x42.778x0.55	24.10	1300.28	0.019	0.24	4784.40	0.000
L36	7.75 - 3.916 (36)	TP44.664x43.8454x0.5375	24.27	1304.84	0.019	0.24	4917.88	0.000
L37	3.916 - 3.666 (37)	TP44.7173x44.664x0.525	24.34	1292.38	0.019	0.24	4989.63	0.000
L38	3.666 - 0 (38)	TP45.5x44.7173x0.5125	24.39	1269.41	0.019	0.24	4885.38	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 145 (1)	0.008	0.111	0.000	0.033	0.000	0.120	1.050	4.8.2
L2	145 - 140 (2)	0.008	0.206	0.000	0.033	0.000	0.215	1.050	4.8.2
L3	140 - 135 (3)	0.014	0.361	0.000	0.057	0.002	0.379	1.050	4.8.2
L4	135 - 130 (4)	0.014	0.492	0.000	0.054	0.002	0.509	1.050	4.8.2
L5	130 - 123.42	0.019	0.613	0.000	0.071	0.002	0.637	1.050	4.8.2

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L6	123.42 - 121.59 (6)	0.015	0.569	0.000	0.053	0.001	0.587	1.050	4.8.2
L7	121.59 - 117 (7)	0.015	0.643	0.000	0.051	0.001	0.660	1.050	4.8.2
L8	117 - 116.75 (8)	0.008	0.301	0.000	0.027	0.000	0.310	1.050	4.8.2
L9	116.75 - 111.75 (9)	0.008	0.348	0.000	0.027	0.000	0.357	1.050	4.8.2
L10	111.75 - 106.75 (10)	0.008	0.394	0.000	0.027	0.000	0.403	1.050	4.8.2
L11	106.75 - 101.75 (11)	0.009	0.436	0.000	0.027	0.000	0.446	1.050	4.8.2
L12	101.75 - 96.75 (12)	0.009	0.471	0.000	0.027	0.000	0.481	1.050	4.8.2
L13	96.75 - 91.75 (13)	0.009	0.502	0.000	0.027	0.000	0.513	1.050	4.8.2
L14	91.75 - 85.96 (14)	0.009	0.508	0.000	0.027	0.000	0.519	1.050	4.8.2
L15	85.96 - 84.96 (15)	0.007	0.401	0.000	0.020	0.000	0.409	1.050	4.8.2
L16	84.96 - 79.96 (16)	0.008	0.418	0.000	0.020	0.000	0.426	1.050	4.8.2
L17	79.96 - 74.96 (17)	0.008	0.441	0.000	0.020	0.000	0.450	1.050	4.8.2
L18	74.96 - 69.96 (18)	0.008	0.456	0.000	0.020	0.000	0.465	1.050	4.8.2
L19	69.96 - 64.96 (19)	0.009	0.470	0.000	0.020	0.000	0.479	1.050	4.8.2
L20	64.96 - 60.5 (20)	0.009	0.483	0.000	0.020	0.000	0.493	1.050	4.8.2
L21	60.5 - 60.25 (21)	0.009	0.483	0.000	0.020	0.000	0.493	1.050	4.8.2
L22	60.25 - 55.25 (22)	0.009	0.496	0.000	0.020	0.000	0.506	1.050	4.8.2
L23	55.25 - 50.25 (23)	0.009	0.499	0.000	0.020	0.000	0.508	1.050	4.8.2
L24	50.25 - 42.41 (24)	0.010	0.510	0.000	0.020	0.000	0.520	1.050	4.8.2
L25	42.41 - 41.41 (25)	0.009	0.480	0.000	0.018	0.000	0.490	1.050	4.8.2
L26	41.41 - 36.41 (26)	0.010	0.489	0.000	0.018	0.000	0.499	1.050	4.8.2
L27	36.41 - 31.41 (27)	0.010	0.489	0.000	0.018	0.000	0.499	1.050	4.8.2
L28	31.41 - 30.5 (28)	0.010	0.498	0.000	0.018	0.000	0.508	1.050	4.8.2
L29	30.5 - 30.25 (29)	0.010	0.497	0.000	0.018	0.000	0.508	1.050	4.8.2
L30	30.25 - 25.25 (30)	0.010	0.497	0.000	0.018	0.000	0.508	1.050	4.8.2
L31	25.25 - 20.25 (31)	0.010	0.506	0.000	0.018	0.000	0.517	1.050	4.8.2
L32	20.25 - 18 (32)	0.010	0.505	0.000	0.017	0.000	0.515	1.050	4.8.2
L33	18 - 17.75 (33)	0.011	0.542	0.000	0.019	0.000	0.553	1.050	4.8.2
L34	17.75 - 12.75 (34)	0.011	0.547	0.000	0.019	0.000	0.559	1.050	4.8.2
L35	12.75 - 7.75 (35)	0.012	0.545	0.000	0.019	0.000	0.557	1.050	4.8.2
L36	7.75 - 3.916 (36)	0.012	0.555	0.000	0.019	0.000	0.567	1.050	4.8.2
L37	3.916 - 3.666 (37)	0.012	0.565	0.000	0.019	0.000	0.578	1.050	4.8.2
L38	3.666 - 0 (38)	0.013	0.579	0.000	0.019	0.000	0.592	1.050	4.8.2

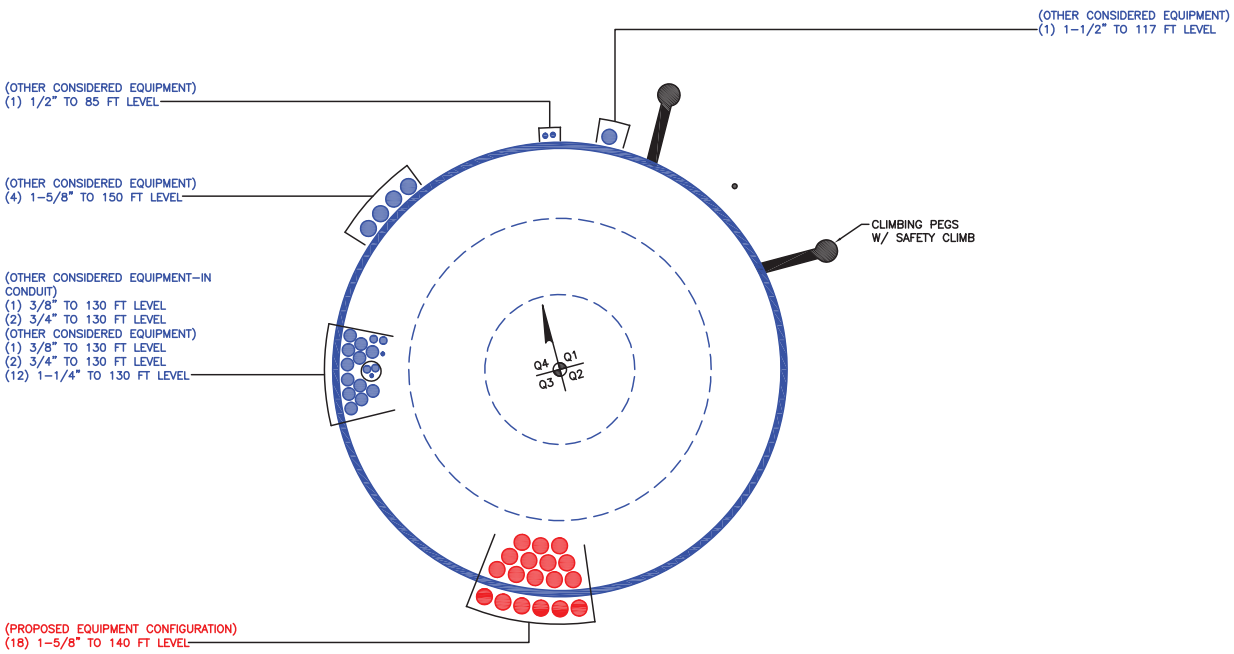
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 145	Pole	TP16.0647x15x0.1875	1	-4.46	580.40	11.4	Pass
L2	145 - 140	Pole	TP17.1294x16.0647x0.1875	2	-4.72	619.32	20.5	Pass
L3	140 - 135	Pole	TP18.1941x17.1294x0.1875	3	-8.81	658.24	36.1	Pass
L4	135 - 130	Pole	TP19.2588x18.1941x0.1875	4	-9.26	697.16	48.5	Pass
L5	130 - 123.42	Pole	TP20.66x19.2588x0.1875	5	-13.05	723.71	60.7	Pass
L6	123.42 - 121.59	Pole	TP20.6769x19.61x0.25	6	-13.82	995.62	55.9	Pass
L7	121.59 - 117	Pole	TP21.6564x20.6769x0.25	7	-14.46	1043.36	62.9	Pass
L8	117 - 116.75	Pole	TP21.7097x21.6564x0.5625	8	-17.51	2319.15	29.5	Pass
L9	116.75 - 111.75	Pole	TP22.7767x21.7097x0.55	9	-18.49	2383.36	34.0	Pass
L10	111.75 - 106.75	Pole	TP23.8436x22.7767x0.5313	10	-19.53	2414.56	38.4	Pass
L11	106.75 - 101.75	Pole	TP24.9106x23.8436x0.5125	11	-20.58	2437.82	42.4	Pass
L12	101.75 - 96.75	Pole	TP25.9775x24.9106x0.5	12	-21.67	2483.59	45.8	Pass
L13	96.75 - 91.75	Pole	TP27.0445x25.9775x0.4875	13	-22.78	2524.09	48.8	Pass
L14	91.75 - 85.96	Pole	TP28.28x27.0445x0.4875	14	-23.15	2558.78	49.4	Pass
L15	85.96 - 84.96	Pole	TP27.9931x26.9094x0.675	15	-25.25	3595.05	38.9	Pass
L16	84.96 - 79.96	Pole	TP29.0597x27.9931x0.6625	16	-26.66	3667.86	40.6	Pass
L17	79.96 - 74.96	Pole	TP30.1263x29.0597x0.6375	17	-28.10	3665.13	42.8	Pass
L18	74.96 - 69.96	Pole	TP31.1929x30.1263x0.625	18	-29.56	3724.76	44.3	Pass
L19	69.96 - 64.96	Pole	TP32.2595x31.1929x0.6125	19	-31.05	3779.13	45.6	Pass
L20	64.96 - 60.5	Pole	TP33.211x32.2595x0.6	20	-32.39	3814.75	46.9	Pass
L21	60.5 - 60.25	Pole	TP33.2643x33.211x0.6	21	-32.48	3820.99	46.9	Pass
L22	60.25 - 55.25	Pole	TP34.3309x33.2643x0.5875	22	-34.01	3865.00	48.2	Pass
L23	55.25 - 50.25	Pole	TP35.3975x34.3309x0.5875	23	-35.56	3987.16	48.4	Pass
L24	50.25 - 42.41	Pole	TP37.07x35.3975x0.575	24	-36.40	3967.58	49.5	Pass
L25	42.41 - 41.41	Pole	TP36.6594x35.3421x0.6375	25	-39.78	4477.12	46.6	Pass
L26	41.41 - 36.41	Pole	TP37.7268x36.6594x0.625	26	-40.50	4442.89	47.5	Pass
L27	36.41 - 31.41	Pole	TP38.7943x37.7268x0.625	27	-41.55	4520.92	47.5	Pass
L28	31.41 - 30.5	Pole	TP38.9885x38.7943x0.6125	28	-43.33	4559.47	48.4	Pass
L29	30.5 - 30.25	Pole	TP39.0419x38.9885x0.6125	29	-43.65	4582.66	48.4	Pass
L30	30.25 - 25.25	Pole	TP40.1094x39.0419x0.6125	30	-43.75	4589.04	48.4	Pass
L31	25.25 - 20.25	Pole	TP41.1768x40.1094x0.6	31	-45.56	4621.72	49.2	Pass
L32	20.25 - 18	Pole	TP41.6572x41.1768x0.6	32	-47.40	4746.59	49.1	Pass
L33	18 - 17.75	Pole	TP41.7105x41.6572x0.5563	33	-48.23	4457.32	52.7	Pass
L34	17.75 - 12.75	Pole	TP42.778x41.7105x0.55	34	-48.33	4413.63	53.3	Pass
L35	12.75 - 7.75	Pole	TP43.8454x42.778x0.55	35	-50.21	4528.09	53.1	Pass
L36	7.75 - 3.916	Pole	TP44.664x43.8454x0.5375	36	-52.13	4538.35	54.0	Pass
L37	3.916 - 3.666	Pole	TP44.7173x44.664x0.525	37	-53.60	4517.87	55.1	Pass
L38	3.666 - 0	Pole	TP45.5x44.7173x0.5125	38	-53.70	4416.88	56.4	Pass
							Summary	
						Pole (L7)	62.9	Pass
						RATING =	**62.9**	**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: 876361 TOWER ID:C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 876361

Work Order: 2131735

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	150	26.58	3.17	18	15	20.66	0.1875	Auto	A572-65
2	126.59	40.63	4.08	18	19.61	28.28	0.25	Auto	A572-65
3	90.04	47.63	5.17	18	26.91	37.07	0.3125	Auto	A572-65
4	47.58	47.58	0	18	35.34	45.5	0.375	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	3.916	30.5	channel	MP3-06 (1.1875in)	2						x												x
2	3.916	18	channel	MP3-06 (1.1875in)	1											x							
3	18	30.5	channel	MP3-06 (1.1875in)	1												x						
4	30.5	60.5	channel	MP3-06 (1.1875in)	3						x						x						x
5	60.5	89	channel	MP3-06 (1.1875in)	3						x						x						x
6	89	117	channel	MP3-05 (1.1875in)	3	x						x						x					
7	0	3.916	plate	TS 1.25" X2.8125"	6	x				x		x			x		x					x	
8																							
9																							
10																							

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	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
2	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
3	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
4	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
5	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
6	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
7	1.25	2.8125	3.51563	1.40625	Welded	n/a	Welded	n/a	0.000	3.516	0.0000	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)
TS 1.25" X2.8125"	Top	-	-	-	-	70	None	-	-	-	-	-	-	-
	Bottom	-	-	-	-	80	CJP Groove	6	0.625	45	0.5	51	0.375	-

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	150 - 145	5		18	15.000	16.065	0.1875	A572-65	1.000
2	145 - 140	5		18	16.065	17.129	0.1875	A572-65	1.000
3	140 - 135	5		18	17.129	18.194	0.1875	A572-65	1.000
4	135 - 130	5		18	18.194	19.259	0.1875	A572-65	1.000
5	130 - 126.59	6.58	3.17	18	19.259	20.660	0.1875	A572-65	1.000
6	126.59 - 121.59	5		18	19.610	20.677	0.25	A572-65	1.000
7	121.59 - 117	4.59		18	20.677	21.656	0.25	A572-65	1.000
8	117 - 116.75	0.25		18	21.656	21.710	0.5625	A572-65	0.900
9	116.75 - 111.75	5		18	21.710	22.777	0.55	A572-65	0.898
10	111.75 - 106.75	5		18	22.777	23.844	0.53125	A572-65	0.907
11	106.75 - 101.75	5		18	23.844	24.911	0.5125	A572-65	0.920
12	101.75 - 96.75	5		18	24.911	25.978	0.5	A572-65	0.924
13	96.75 - 91.75	5		18	25.978	27.044	0.4875	A572-65	0.930
14	91.75 - 90.04	5.79	4.08	18	27.044	28.280	0.4875	A572-65	0.924
15	90.04 - 84.96	5.08		18	26.909	27.993	0.675	A572-65	0.903
16	84.96 - 79.96	5		18	27.993	29.060	0.6625	A572-65	0.903
17	79.96 - 74.96	5		18	29.060	30.126	0.6375	A572-65	0.921
18	74.96 - 69.96	5		18	30.126	31.193	0.625	A572-65	0.924
19	69.96 - 64.96	5		18	31.193	32.260	0.6125	A572-65	0.928
20	64.96 - 60.5	4.46		18	32.260	33.211	0.6	A572-65	0.935
21	60.5 - 60.25	0.25		18	33.211	33.264	0.6	A572-65	0.934
22	60.25 - 55.25	5		18	33.264	34.331	0.5875	A572-65	0.940
23	55.25 - 50.25	5		18	34.331	35.398	0.5875	A572-65	0.928
24	50.25 - 47.58	7.84	5.17	18	35.398	37.070	0.575	A572-65	0.941
25	47.58 - 41.41	6.17		18	35.342	36.659	0.6375	A572-65	0.941
26	41.41 - 36.41	5		18	36.659	37.727	0.625	A572-65	0.949
27	36.41 - 31.41	5		18	37.727	38.794	0.625	A572-65	0.940
28	31.41 - 30.5	0.91		18	38.794	38.989	0.6125	A572-65	0.957
29	30.5 - 30.25	0.25		18	38.989	39.042	0.6125	A572-65	0.956
30	30.25 - 25.25	5		18	39.042	40.109	0.6125	A572-65	0.947
31	25.25 - 20.25	5		18	40.109	41.177	0.6	A572-65	0.957
32	20.25 - 18	2.25		18	41.177	41.657	0.6	A572-65	0.953
33	18 - 17.75	0.25		18	41.657	41.711	0.55625	A572-65	1.027
34	17.75 - 12.75	5		18	41.711	42.778	0.55	A572-65	1.029
35	12.75 - 7.75	5		18	42.778	43.845	0.55	A572-65	1.021
36	7.75 - 3.916	3.834		18	43.845	44.664	0.5375	A572-65	1.038
37	3.916 - 3.666	0.25		18	44.664	44.717	0.525	A572-65	1.003
38	3.666 - 0	3.666		18	44.717	45.500	0.5125	A572-65	1.022

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	150 - 145	4.46	25.30	5.54
2	145 - 140	4.72	53.58	5.77
3	140 - 135	8.81	105.98	10.63
4	135 - 130	9.26	159.67	10.85
5	130 - 126.59	13.05	212.34	14.75
6	126.59 - 121.59	13.82	286.70	15.00
7	121.59 - 117	14.46	355.87	15.17
8	117 - 116.75	17.51	360.32	17.81
9	116.75 - 111.75	18.49	450.60	18.31
10	111.75 - 106.75	19.53	542.91	18.62
11	106.75 - 101.75	20.58	636.75	18.92
12	101.75 - 96.75	21.67	732.06	19.21
13	96.75 - 91.75	22.78	828.79	19.49
14	91.75 - 90.04	23.15	862.25	19.67
15	90.04 - 84.96	25.25	963.80	20.34
16	84.96 - 79.96	26.66	1066.28	20.66
17	79.96 - 74.96	28.10	1170.36	20.98
18	74.96 - 69.96	29.56	1275.98	21.28
19	69.96 - 64.96	31.05	1383.09	21.58
20	64.96 - 60.5	32.39	1479.85	21.83
21	60.5 - 60.25	32.48	1485.31	21.84
22	60.25 - 55.25	34.01	1595.14	22.11
23	55.25 - 50.25	35.56	1706.27	22.36
24	50.25 - 47.58	36.40	1766.14	22.50
25	47.58 - 41.41	39.78	1906.24	22.91
26	41.41 - 36.41	41.54	2021.33	23.14
27	36.41 - 31.41	43.31	2137.48	23.34
28	31.41 - 30.5	43.64	2158.73	23.38
29	30.5 - 30.25	43.74	2164.58	23.38
30	30.25 - 25.25	45.54	2281.94	23.57
31	25.25 - 20.25	47.38	2400.23	23.76
32	20.25 - 18	48.22	2453.79	23.87
33	18 - 17.75	48.32	2459.76	23.87
34	17.75 - 12.75	50.20	2579.58	24.07
35	12.75 - 7.75	52.11	2700.27	24.23
36	7.75 - 3.916	53.59	2793.34	24.35
37	3.916 - 3.666	53.69	2799.43	24.34
38	3.666 - 0	55.05	2888.86	24.46

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP16.065x15x0.1875	Pole	11.4%	Pass
145 - 140	Pole	TP17.129x16.065x0.1875	Pole	20.5%	Pass
140 - 135	Pole	TP18.194x17.129x0.1875	Pole	36.0%	Pass
135 - 130	Pole	TP19.259x18.194x0.1875	Pole	48.5%	Pass
130 - 126.59	Pole	TP20.66x19.259x0.1875	Pole	60.7%	Pass
126.59 - 121.59	Pole	TP20.677x19.61x0.25	Pole	55.8%	Pass
121.59 - 117	Pole	TP21.656x20.677x0.25	Pole	62.8%	Pass
117 - 116.75	Pole + Reinf.	TP21.71x21.656x0.5625	Reinf. 6 Tension Rupture	44.0%	Pass
116.75 - 111.75	Pole + Reinf.	TP22.777x21.71x0.55	Reinf. 6 Tension Rupture	51.1%	Pass
111.75 - 106.75	Pole + Reinf.	TP23.844x22.777x0.5313	Reinf. 6 Tension Rupture	57.4%	Pass
106.75 - 101.75	Pole + Reinf.	TP24.911x23.844x0.5125	Reinf. 6 Tension Rupture	63.0%	Pass
101.75 - 96.75	Pole + Reinf.	TP25.978x24.911x0.5	Reinf. 6 Tension Rupture	67.9%	Pass
96.75 - 91.75	Pole + Reinf.	TP27.044x25.978x0.4875	Reinf. 6 Tension Rupture	72.3%	Pass
91.75 - 90.04	Pole + Reinf.	TP28.28x27.044x0.4875	Reinf. 6 Tension Rupture	73.6%	Pass
90.04 - 84.96	Pole + Reinf.	TP27.993x26.909x0.675	Reinf. 5 Tension Rupture	57.1%	Pass
84.96 - 79.96	Pole + Reinf.	TP29.06x27.993x0.6625	Reinf. 5 Tension Rupture	59.7%	Pass
79.96 - 74.96	Pole + Reinf.	TP30.126x29.06x0.6375	Reinf. 5 Tension Rupture	62.0%	Pass
74.96 - 69.96	Pole + Reinf.	TP31.193x30.126x0.625	Reinf. 5 Tension Rupture	64.2%	Pass
69.96 - 64.96	Pole + Reinf.	TP32.26x31.193x0.6125	Reinf. 5 Tension Rupture	66.1%	Pass
64.96 - 60.5	Pole + Reinf.	TP33.211x32.26x0.6	Reinf. 5 Tension Rupture	67.6%	Pass
60.5 - 60.25	Pole + Reinf.	TP33.264x33.211x0.6	Reinf. 4 Tension Rupture	67.7%	Pass
60.25 - 55.25	Pole + Reinf.	TP34.331x33.264x0.5875	Reinf. 4 Tension Rupture	69.2%	Pass
55.25 - 50.25	Pole + Reinf.	TP35.398x34.331x0.5875	Reinf. 4 Tension Rupture	70.6%	Pass
50.25 - 47.58	Pole + Reinf.	TP37.07x35.398x0.575	Reinf. 4 Tension Rupture	71.3%	Pass
47.58 - 41.41	Pole + Reinf.	TP36.659x35.342x0.6375	Reinf. 4 Tension Rupture	67.4%	Pass
41.41 - 36.41	Pole + Reinf.	TP37.727x36.659x0.625	Reinf. 4 Tension Rupture	68.2%	Pass
36.41 - 31.41	Pole + Reinf.	TP38.794x37.727x0.625	Reinf. 4 Tension Rupture	68.9%	Pass
31.41 - 30.5	Pole + Reinf.	TP38.989x38.794x0.6125	Reinf. 4 Tension Rupture	69.0%	Pass
30.5 - 30.25	Pole + Reinf.	TP39.042x38.989x0.6125	Reinf. 3 Tension Rupture	69.0%	Pass
30.25 - 25.25	Pole + Reinf.	TP40.109x39.042x0.6125	Reinf. 3 Tension Rupture	69.6%	Pass
25.25 - 20.25	Pole + Reinf.	TP41.177x40.109x0.6	Reinf. 3 Tension Rupture	70.1%	Pass
20.25 - 18	Pole + Reinf.	TP41.657x41.177x0.6	Reinf. 3 Tension Rupture	70.3%	Pass
18 - 17.75	Pole + Reinf.	TP41.711x41.657x0.5563	Reinf. 1 Tension Rupture	72.3%	Pass
17.75 - 12.75	Pole + Reinf.	TP42.778x41.711x0.55	Reinf. 1 Tension Rupture	72.7%	Pass
12.75 - 7.75	Pole + Reinf.	TP43.845x42.778x0.55	Reinf. 1 Tension Rupture	73.0%	Pass
7.75 - 3.92	Pole + Reinf.	TP44.664x43.845x0.5375	Reinf. 1 Tension Rupture	73.2%	Pass
3.92 - 3.67	Pole + Reinf.	TP44.717x44.664x0.525	Reinf. 7 Tension Yield	72.1%	Pass
3.67 - 0	Pole + Reinf.	TP45.5x44.717x0.5125	Reinf. 7 Tension Yield	72.2%	Pass
				Summary	
			Pole	62.8%	Pass
			Reinforcement	73.6%	Pass
			Overall	73.6%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity*							
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7
150 - 145	301	n/a	301	9.45	n/a	9.45	11.4%							
145 - 140	365	n/a	365	10.08	n/a	10.08	20.5%							
140 - 135	439	n/a	439	10.72	n/a	10.72	36.0%							
135 - 130	521	n/a	521	11.35	n/a	11.35	48.5%							
130 - 126.59	583	n/a	583	11.78	n/a	11.78	60.7%							
126.59 - 121.59	854	n/a	854	16.21	n/a	16.21	55.8%							
121.59 - 117	983	n/a	983	16.99	n/a	16.99	62.8%							
117 - 116.75	990	1160	2150	17.03	16.95	33.98	28.9%						44.0%	
116.75 - 111.75	1146	1268	2413	17.87	16.95	34.82	33.7%						51.1%	
111.75 - 106.75	1316	1380	2696	18.72	16.95	35.67	37.9%						57.4%	
106.75 - 101.75	1503	1498	3001	19.57	16.95	36.52	42.0%						63.0%	
101.75 - 96.75	1707	1620	3326	20.41	16.95	37.36	45.9%						67.9%	
96.75 - 91.75	1928	1747	3675	21.26	16.95	38.21	49.5%						72.3%	
91.75 - 90.04	2008	1791	3799	21.55	16.95	38.50	50.6%						73.6%	
90.04 - 84.96	2657	2856	5513	27.45	25.41	52.86	38.5%					57.1%		
84.96 - 79.96	2976	3062	6038	28.51	25.41	53.92	40.3%					59.7%		
79.96 - 74.96	3320	3275	6595	29.57	25.41	54.98	42.1%					62.0%		
74.96 - 69.96	3689	3496	7185	30.63	25.41	56.04	43.9%					64.2%		
69.96 - 64.96	4084	3723	7808	31.69	25.41	57.10	45.7%					66.1%		
64.96 - 60.5	4460	3932	8393	32.63	25.41	58.04	47.2%					67.6%		
60.5 - 60.25	4482	3944	8426	32.68	25.41	58.09	47.3%				67.7%			
60.25 - 55.25	4932	4186	9117	33.74	25.41	59.15	48.9%				69.2%			
55.25 - 50.25	5410	4435	9845	34.80	25.41	60.21	50.4%				70.6%			
50.25 - 47.58	5678	4570	10248	35.36	25.41	60.77	51.1%				71.3%			
47.58 - 41.41	7181	4738	11919	43.19	25.41	68.60	46.3%				67.4%			
41.41 - 36.41	7834	5003	12837	44.46	25.41	69.87	47.3%				68.2%			
36.41 - 31.41	8525	5275	13800	45.73	25.41	71.14	48.2%				68.9%			
31.41 - 30.5	8655	5326	13980	45.96	25.41	71.37	48.3%				69.0%			
30.5 - 30.25	8690	5339	14030	46.02	25.41	71.43	48.4%	69.0%		69.0%				
30.25 - 25.25	9430	5620	15051	47.29	25.41	72.70	49.2%	69.6%		69.6%				
25.25 - 20.25	10211	5909	16119	48.56	25.41	73.97	50.0%	70.1%		70.1%				
20.25 - 18	10576	6041	16616	49.13	25.41	74.54	50.3%	70.3%		70.3%				
18 - 17.75	10647	4930	15577	49.20	25.41	74.61	56.4%	72.3%	69.3%					
17.75 - 12.75	11492	5175	16666	50.47	25.41	75.88	57.1%	72.7%	69.7%					
12.75 - 7.75	12380	5425	17805	51.74	25.41	77.15	57.7%	73.0%	70.0%					
7.75 - 3.92	13092	5620	18713	52.71	25.41	78.12	58.2%	73.2%	70.3%					
3.92 - 3.67	13123	4899	18022	52.78	21.09	73.87	59.9%							72.1%
3.67 - 0	13830	5062	18891	53.71	21.09	74.80	60.3%							72.2%

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

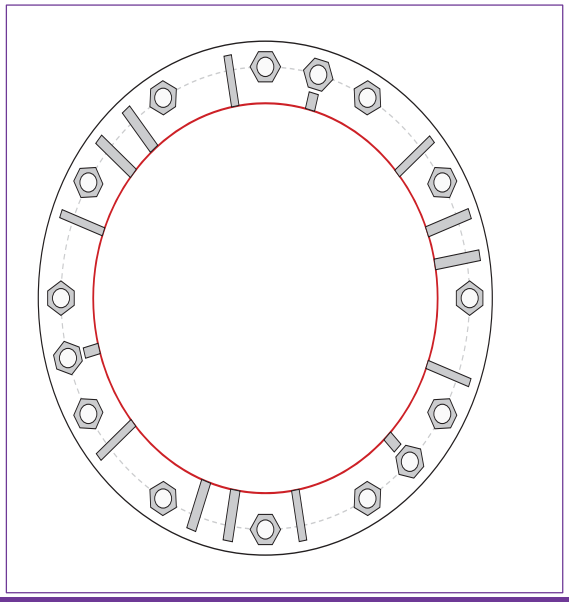
Monopole Base Plate Connection

Site Info	
BU #	876361
Site Name	our 2 / Oxford Town G
Order #	623938 Rev. 0

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

Applied Loads	
Moment (kip-ft)	2888.86
Axial Force (kips)	55.05
Shear Force (kips)	24.46

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (12) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 54" BC
GROUP 2: (3) 2-1/4" ø bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 54" BC

Base Plate Data

60" OD x 1.75" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

Group 1: (6) 18"H x 6"W x 1"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.375" groove, 45° dbl bevel, 0.5" fillet
vert. weld: 0.375" fillet

Group 2: (6) 51"H x 6"W x 1.25"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.625" fillet
vert. weld: 0.375" fillet

Group 3: (3) 30"H x 2"W x 1.25"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.625" fillet
vert. weld: 0.375" fillet

Pole Data

45.5" x 0.375" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

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

GROUP 1:		
Pu_t = 166.48	ϕPn_t = 243.75	**Stress Rating**
Vu = 2.04	ϕVn = 149.1	**65.0%**
Mu = n/a	ϕMn = n/a	**Pass**

GROUP 2:		
Pu_t = 171.07	ϕPn_t = 304.69	**Stress Rating**
Vu = 0	ϕVn = 186.38	**53.5%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	50.8	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**89.6%**	**Pass**

Stiffener Summary

Horizontal Weld:	**73.0%**	**Pass**
Vertical Weld:	**32.4%**	**Pass**
Plate Flexure+Shear:	**7.1%**	**Pass**
Plate Tension+Shear:	**32.3%**	**Pass**
Plate Compression:	**33.9%**	**Pass**

Pole Summary

Punching Shear:	**10.0%**	**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	Yes	No	

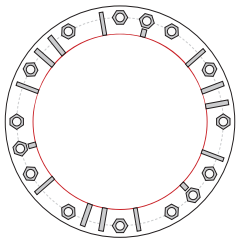
Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n:	l_{sr} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	2.25	A615-75	54	0.55	2.25	N-Included		No
2	1	30	2.25	A615-75	54	0.55	2.25	N-Included		No
3	1	60	2.25	A615-75	54	0.55	2.25	N-Included		No
4	1	90	2.25	A615-75	54	0.55	2.25	N-Included		No
5	1	120	2.25	A615-75	54	0.55	2.25	N-Included		No
6	1	150	2.25	A615-75	54	0.55	2.25	N-Included		No
7	1	180	2.25	A615-75	54	0.55	2.25	N-Included		No
8	1	210	2.25	A615-75	54	0.55	2.25	N-Included		No
9	1	240	2.25	A615-75	54	0.55	2.25	N-Included		No
10	1	270	2.25	A615-75	54	0.55	2.25	N-Included		No
11	1	300	2.25	A615-75	54	0.55	2.25	N-Included		No
12	1	330	2.25	A615-75	54	0.55	2.25	N-Included		No
13	2	75	2.25	A193 Gr. B7	54	0.55	2.25	N-Included		No
14	2	195	2.25	A193 Gr. B7	54	0.55	2.25	N-Included		No
15	2	315	2.25	A193 Gr. B7	54	0.55	2.25	N-Included		No

Custom Stiffener Connection

Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	40	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
2	1	100	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
3	1	160	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
4	1	220	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
5	1	280	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
6	1	340	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
7	2	10	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
8	2	20	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
9	2	130	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
10	2	140	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
11	2	250	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
12	2	260	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
13	3	75	2	30	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
14	3	195	2	30	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
15	3	315	2	30	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80

Plot Graphic



Pier and Pad Foundation

BU # :	876361
Site Name:	Seymour 2 / Oxford
App. Number:	623938 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions

Compression, P_{comp}:	55.07	kips
Base Shear, Vu_comp:	24.43	kips
Moment, M_u:	2888.86	ft-kips
Tower Height, **H**:	150	ft
BP Dist. Above Fdn, bp_{dist}:	4.5	in

Pier Properties

Pier Shape:	Square	
Pier Diameter, **dpier**:	6	ft
Ext. Above Grade, **E**:	1	ft
Pier Rebar Size, **Sc**:	8	
Pier Rebar Quantity, **mc**:	30	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	7	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	6	ft
Pad Width, W_1:	21.5	ft
Pad Thickness, **T**:	3	ft
Pad Rebar Size (Top dir.2), Sp_{top2}:	8	
Pad Rebar Quantity (Top dir. 2), mp_{top2}:	20	
Pad Rebar Size (Bottom dir. 2), Sp_2:	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	33	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

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

Soil Properties

Total Soil Unit Weight, γ:	120	pcf
Ultimate Gross Bearing, Qult:	12.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	30	degrees
SPT Blow Count, N_{blows}:	60	
Base Friction, μ:		
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	177.69	24.43	**13.1%**	**Pass**
Bearing Pressure (ksf)	9.00	3.32	**36.9%**	**Pass**
*Overturning (kip*ft)*	3977.78	3069.03	**77.2%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	3263.00	2986.58	**87.2%**	**Pass**
Pier Compression (kip)	17184.96	80.99	**0.4%**	**Pass**
*Pad Flexure (kip*ft)*	3555.96	1440.66	**38.6%**	**Pass**
Pad Shear - 1-way (kips)	667.70	247.03	**35.2%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.000	**0.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	3964.87	1791.95	**43.0%**	**Pass**

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

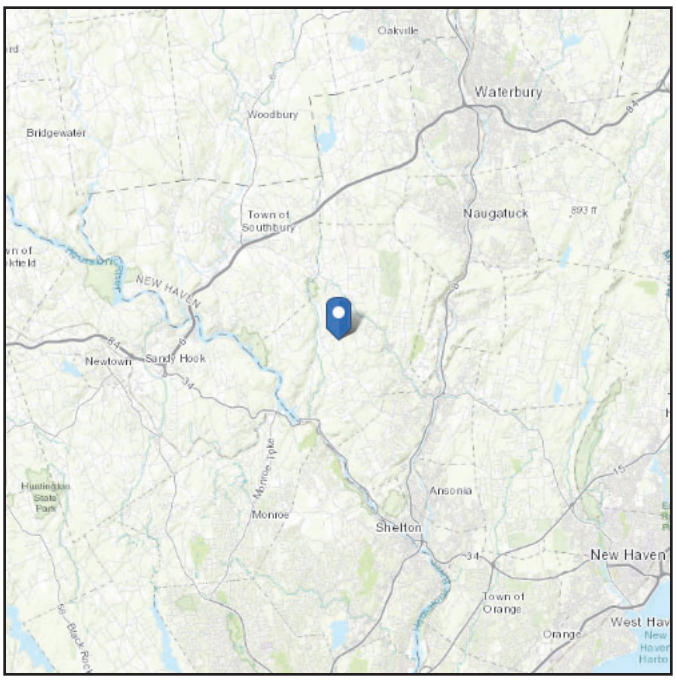
Structural Rating*:	**87.2%**
Soil Rating*:	**77.2%**

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 734.07 ft (NAVD 88)
Latitude: 41.426364
Longitude: -73.144258



Wind

Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Tue Jun 28 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.

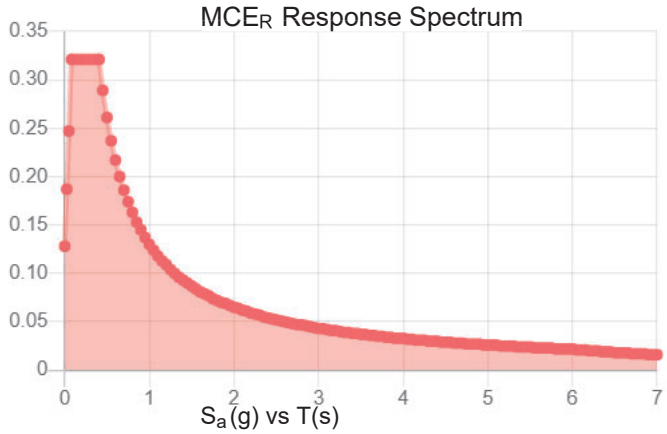
Seismic

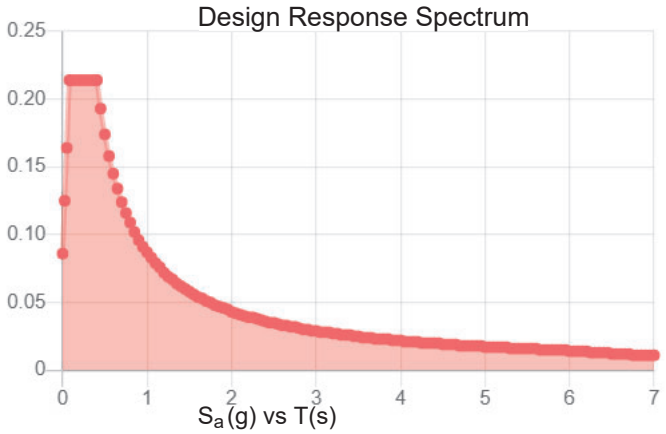
Site Soil Class: D - Stiff Soil

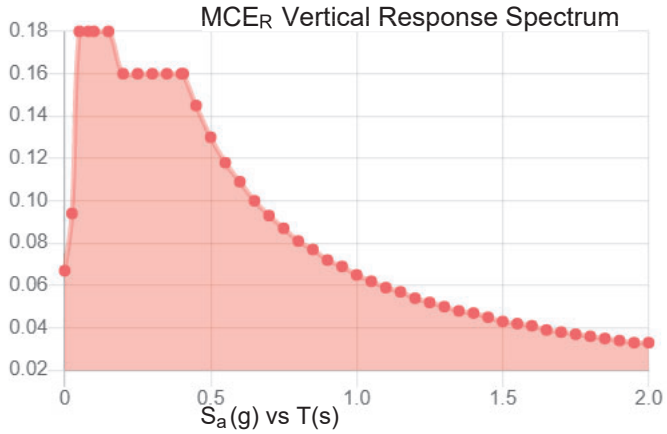
Results:

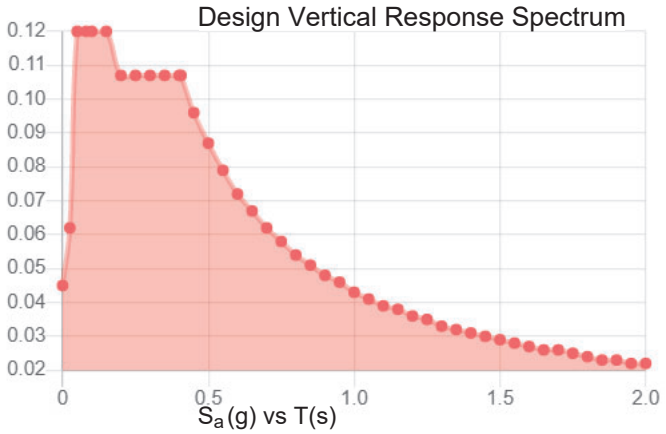
S_S :	0.2	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA_M :	0.177
S_{MS} :	0.321	F_{PGA} :	1.576
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.214	C_v :	0.701

Seismic Design Category B









Data Accessed: **Tue Jun 28 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:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Tue Jun 28 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
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report

Mount ReAnalysis-VZW

SMART Tool Project #: 10179802
Maser Consulting Connecticut Project #: 21777126A (Rev. 1)

November 10, 2022

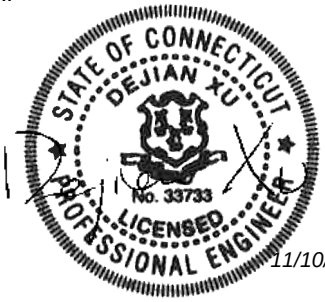
Site Information	*Site ID:*	*467421-VZW / OXFORD W CT*
	Site Name:	*OXFORD W CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*20 Great Oak Rd* *Oxford, Connecticut 06478* *New Haven County*
	Latitude:	*41.426358°*
	Longitude:	*-73.144247°*
Structure Information	*Tower Type:*	*170-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 16272032

Analysis Results

Platform: **190.5% Fail**

Report Prepared By: Madison Shell



11/10/2022

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 324653, dated June 8, 2022*
Mount Mapping Report	*Hudson Design Group, LLC., Site ID:467421, dated March 24, 2022*

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:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.974
Seismic Parameters:	S_S:	0.200 g
	S_1:	0.054 g
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
138.50	140.00	3	Amphenol Antel	BXA-70063-6CF-2	Retained
		1	Raycap	RVZDC-6627-PF-48	Added
		6	JMA Wireless	MX06FRO660-03	
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

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 in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	**106.9 %**	**Fail**
Corner Plates	**190.5 %**	**Fail**
Cross Bracing	6.2 %	Pass
Face Horizontal	71.8 %	Pass
Mount Pipe	32.2 %	Pass
Face Plates	46.2 %	Pass
Mount Connection	73.7 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**190.5%**

Recommendation:

The existing mount is **INSUFFICIENT** for the final loading. The following modification will be required prior to any installation:

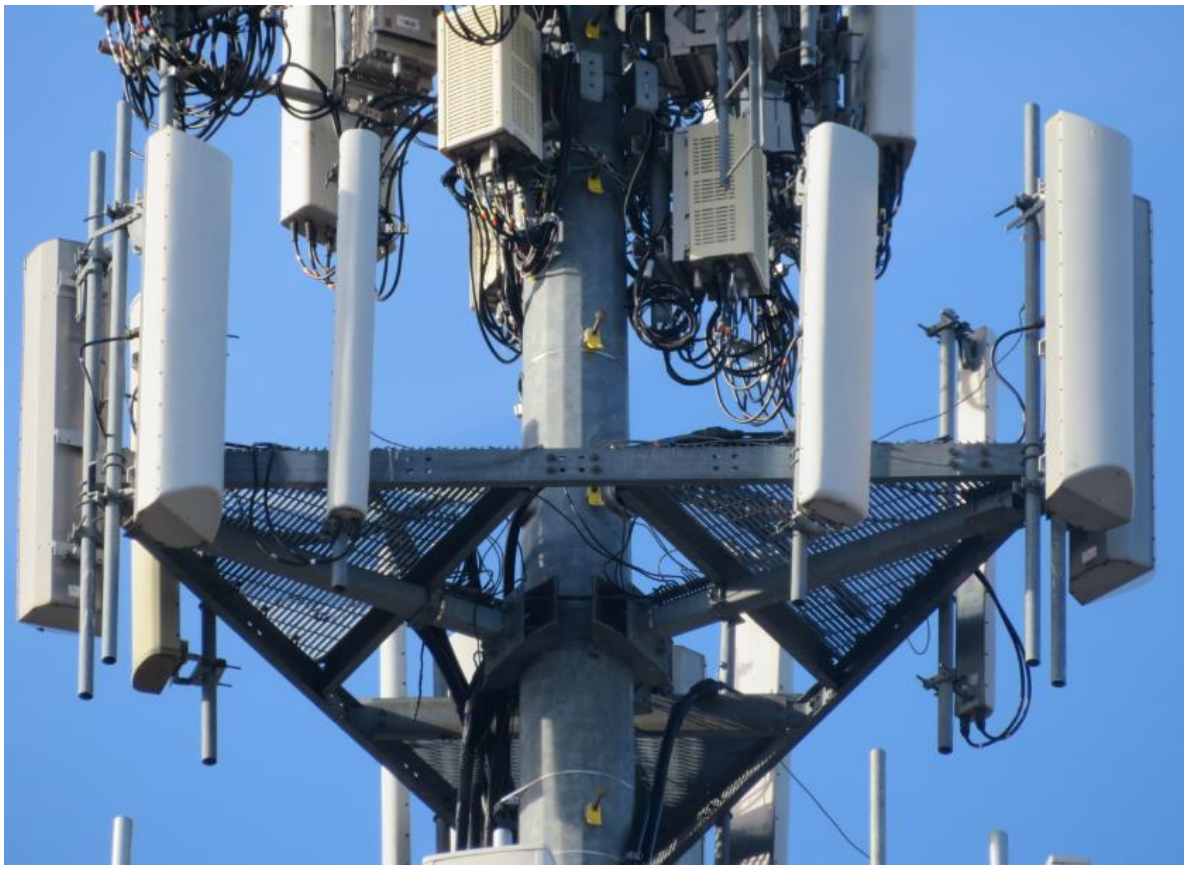
- Install support rail kit
- Install (1) OVP pipe

If the modifications listed above are installed, the maximum structure rating will be **65.0%.** Please note that this modification and structure rating are based on preliminary calculations and are for reference only. A final modification packet (including design drawings) can be provided under a separate scope of work. Separate modification design fees will apply.

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. Cost Estimate
3. Mount Mapping Report (for reference only)
4. Analysis Calculations
5. Antenna Placement Diagrams



MASER CONSULTING	**Antenna Mount Modification Cost Estimate**		RECOMMENDATION	MODIFICATION	Mount Capacity - Pre Mod	190.5%	M/A Project Number:	10179802
					Mount Capacity - Post Mod - Passing	65.0%	Offer 2 Mods	1 Mod
	Client Name:	Structure Consulting Group			Mount Capacity - Post Mod - Extra Capacity		Wind Speed (mph):	117
	Site Name:	OXFORD W CT			Structure Type:	Monopole	Design ANSI/TIA Standard:	EIA-222-H
	Site Number or ID:	467421-VZW / OXFORD W CT	State	Connecticut	RAD Elevation (ft.):	139.00	M/A Completed Date:	November 09, 2022

Cost Estimate

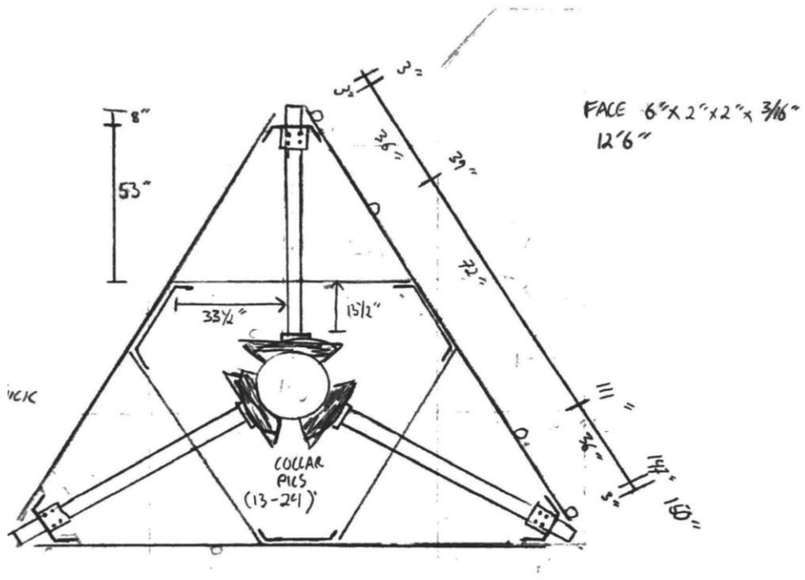
Mount Kit	Description	Quantity	Unit Cost	Item Cost*	VENDOR	COMMENTS
MOUNT MODIFICATION - PASSING						PASSING FIX - NOTES
VZWSMART-PLK1	Heavy duty 3-sided support rail kit. Includes (3) 2.875 inch OD x 12' - 6 inch long pipes, (3) corner connections, (12) crossovers, and hardware. Fits 2.375 inch - 2.875 inch mount pipes.	1	$2347.00	$2347.00	VZWSMART	· Install support rail kit · Install (1) OVP pipe
VZWSMART-MSK6	T-Arm Clamp Dual Cross Over. Fits 6 inch x 6 inch Tube, holds (2) Pipes up to 4.5 inch OD	1	$273.21	$273.21	VZWSMART	
Custom Kit	Additional Non-Standard Parts	1	$31.56	$31.56	Custom	
	TOTAL MATERIAL COSTS - EXCLUDES SHIPPING & TAXES			$2651.77	VZWSMART	ADDITIONAL COMMENTS
	INSTALLATION ESTIMATED DAYS	1.0	$3000.00	$3000.00	GC ON INSTALL	ESTIMATES ASSUME THE GC COMPLETES MODIFICATION AS PART OF SITE WORK
	TOTAL ESTIMATED COSTS:		65.0%	$5651.77		NO ADDITIONAL MOBILIZATION CONSIDERED OR SPECIFIC LIFTING EQUIPMENT
NOT APPROVED FOR CONSTRUCTION – SEE FORMAL MODIFICATION DRAWINGS DO NOT ORDER MATERIALS BASED ON COST ESTIMATE SINCE FINAL DESIGN MAY VARY						ESTIMATES EXCLUDE SHIPPING & TAXES IF APPLICABLE

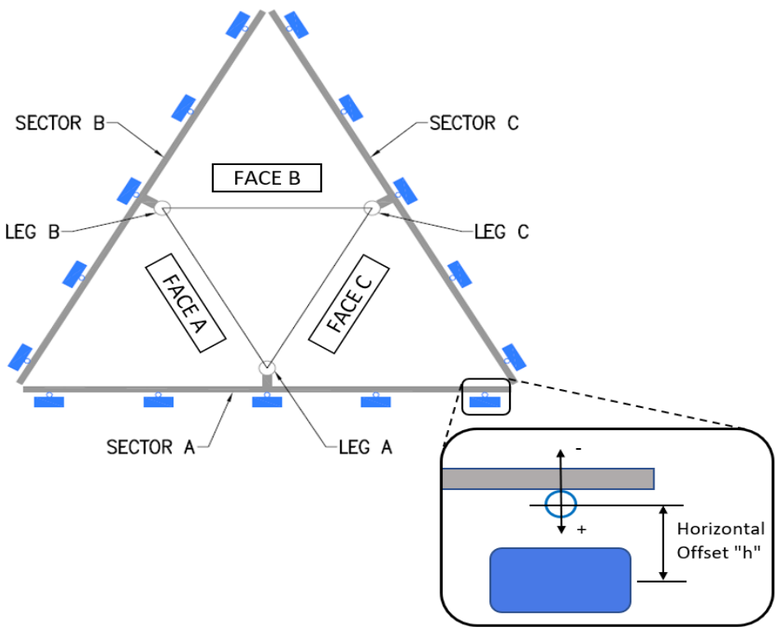
V3.0 Updated on 8-31-2020

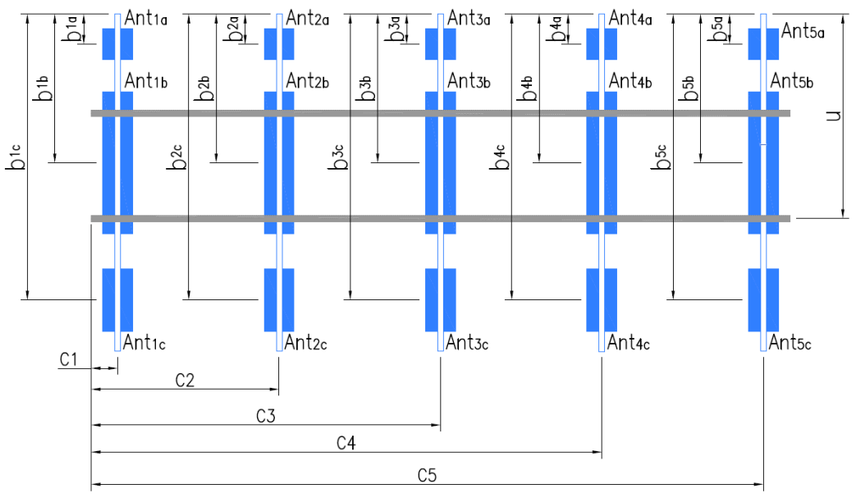
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1209789

Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/24/2021
Site Name:	OXFORD WEST CT	**Tower Type:**	Monopole
Site Number or ID:	467421	**Tower Height (Ft.):**	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	140







Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 105" LONG	62.00	3.00	C1	2" STD. PIPE X 105" LONG	62.00	3.00
A2	2" E.H. PIPE X 84" LONG	50.00	39.00	C2	2" E.H. PIPE X 84" LONG	50.00	39.00
A3	2" E.H. PIPE X 84" LONG	50.00	111.00	C3	2" E.H. PIPE X 84" LONG	50.00	111.00
A4	2" STD. PIPE X 105" LONG	62.00	147.00	C4	2" STD. PIPE X 105" LONG	62.00	147.00
A5				C5			
A6				C6			
B1	2" STD. PIPE X 105" LONG	62.00	3.00	D1			
B2	2" E.H. PIPE X 84" LONG	50.00	39.00	D2			
B3	2" E.H. PIPE X 84" LONG	50.00	111.00	D3			
B4	2" STD. PIPE X 105" LONG	62.00	147.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	5.5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	4.2

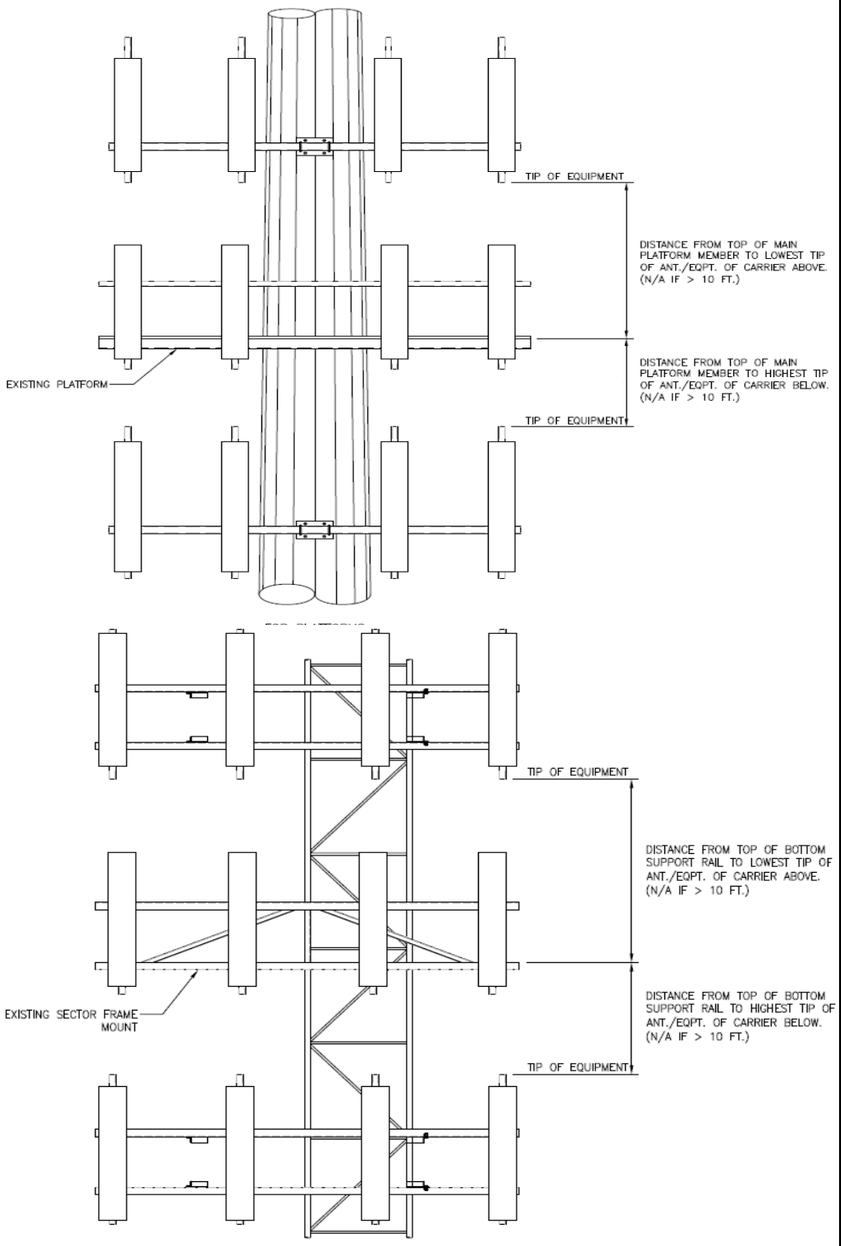
Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	16.5

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	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}	LPA-80063-6CF-EDIN-	15.00	14.00	71.00		141.25	47.00	14.50	50.00	82, 77
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	BXA-70063-6CF-EDIN-	11.00	5.00	72.00		141.167	36.00	10.00	50.00	83, 75
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	UNKNOWN	6.00	4.00	72.00		141.083	37.00	7.50	50.00	84
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	LPA-80063-6CF-EDIN-	15.00	14.00	71.00		141.25	47.00	14.50	50.00	84, 77
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	70.00	Deg	Leg A:		Deg
Sector B:	190.00	Deg	Leg B:		Deg
Sector C:	310.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	101.00	Deg	
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	LPA-80063-6CF-EDIN-	15.00	14.00	71.00		141.25	47.00	14.50	140.00	85, 77
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	BXA-70063-6CF-EDIN-	11.00	5.00	72.00		141.167	36.00	10.00	140.00	85, 75
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	UNKNOWN	6.00	4.00	72.00		141.083	37.00	7.50	175.00	85
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	LPA-80063-6CF-EDIN-	15.00	14.00	71.00		141.25	47.00	14.50	140.00	77, 86
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}	LPA-80063-6CF-EDIN-	15.00	14.00	71.00		141.25	47.00	14.50	0.00	86, 77
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	BXA-70063-6CF-EDIN-	11.00	5.00	72.00		141.167	36.00	10.00	255.00	86, 75
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	UNKNOWN	6.00	4.00	72.00		141.083	37.00	7.50	255.00	147
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	LPA-80063-6CF-EDIN-	15.00	14.00	71.00		141.25	47.00	14.50	255.00	144, 77
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	(18) 1-5/8" COAX	
2	WALL THICKNESS .191, .187, .195	38
3		
4		
5		
6		
7		
8		

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

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

V3.0 Updated on 8-31-2020

MASER CONSULTING P.A.	Antenna Mount Mapping Form (PATENT PENDING)		FCC #
			1209789

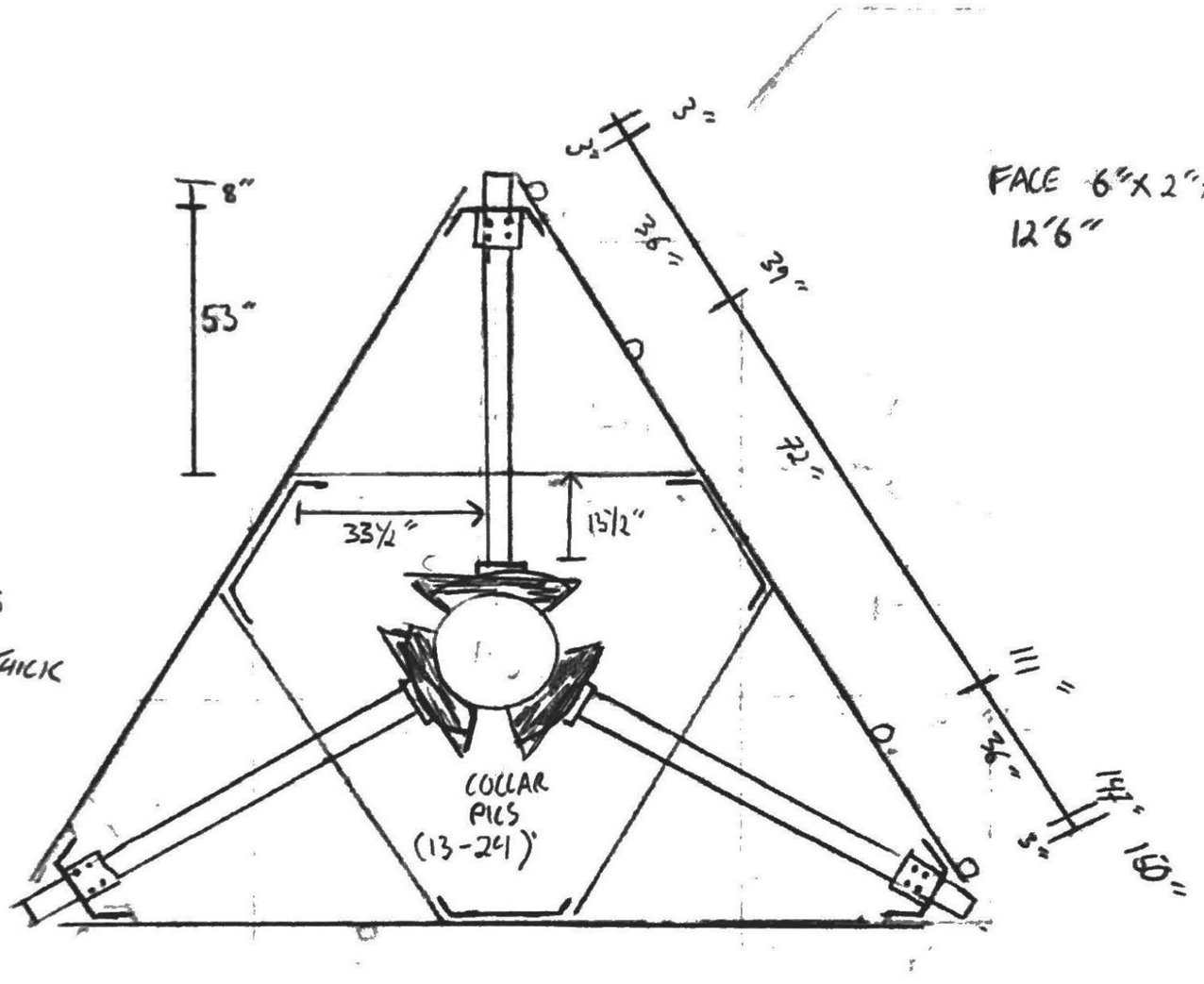
Tower Owner:	CROWN CASTLE	**Mapping Date:**	3/24/2021
Site Name:	OXFORD WEST CT	**Tower Type:**	Monopole
Site Number or ID:	467421	**Tower Height (Ft.):**	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	140

Please Insert Sketches of the Antenna Mount

DATE: _____
Project Name: _____
Project No.: OXFORD WEST CT
Design By: _____ Chk'd By: _____ Page 2 of 2

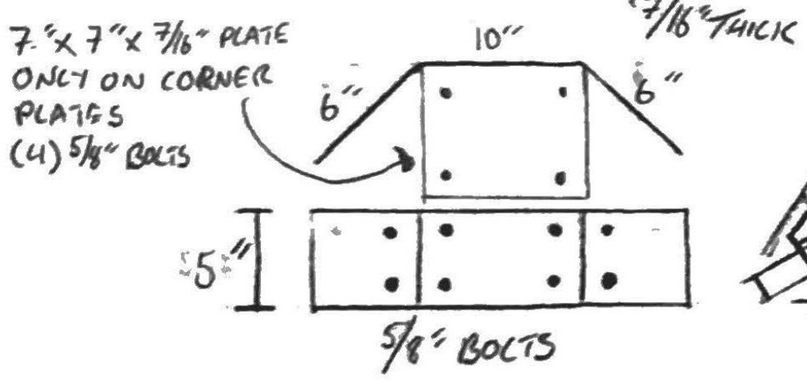
HUDSON Design Group LLC
45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

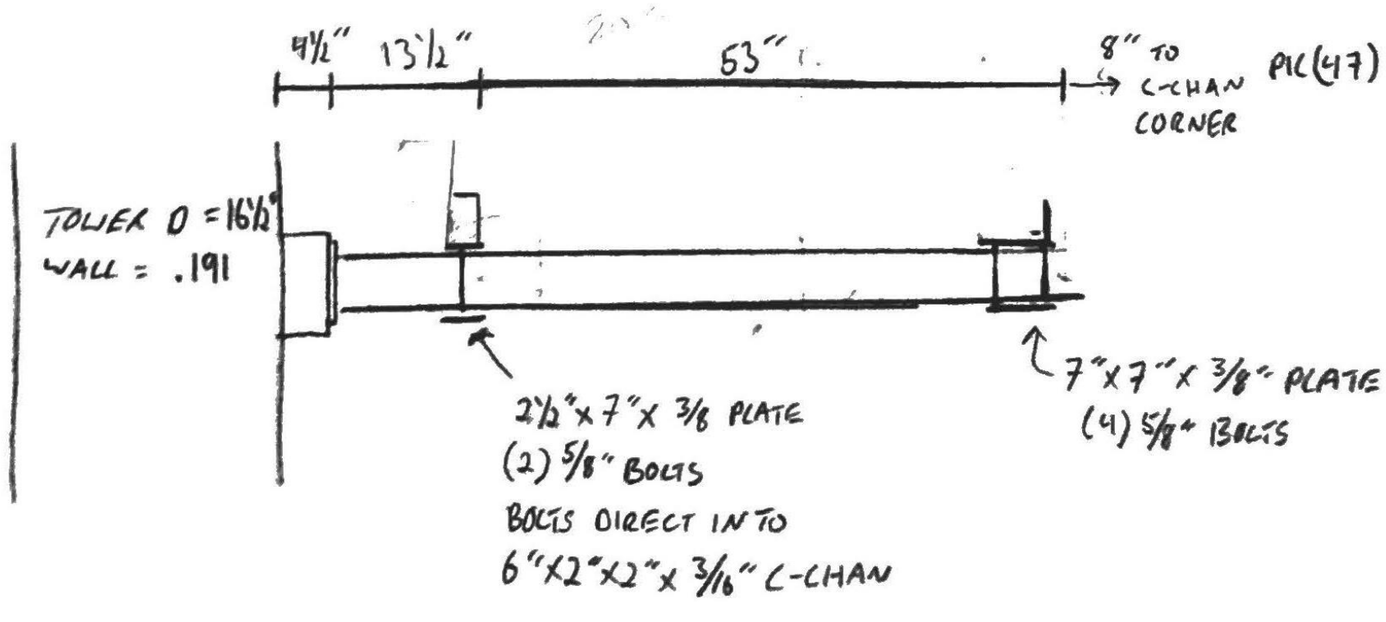
FACE PIPE CL = 140"
COLLAR = 9" x 7/16"
RODS = (2) 3/4"
PLATE = 11 1/2" x 11 1/2" x 5/8"
BOLTS = (4) 5/8"
HSS = 4"x4"x.220
T-F = 36"
T-A = 80"



FACE 6"x2"x2"x 3/16"
12'6"

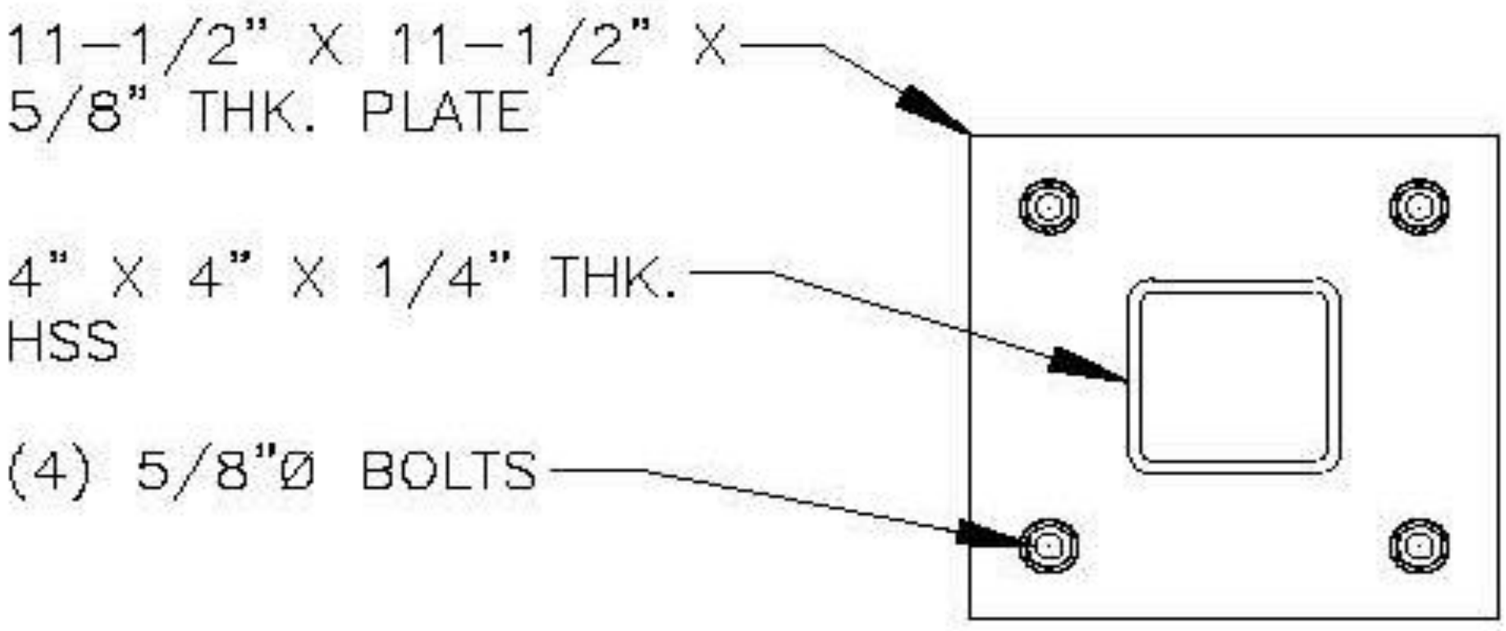
FACE + CORNER PLATES
7/16" THICK



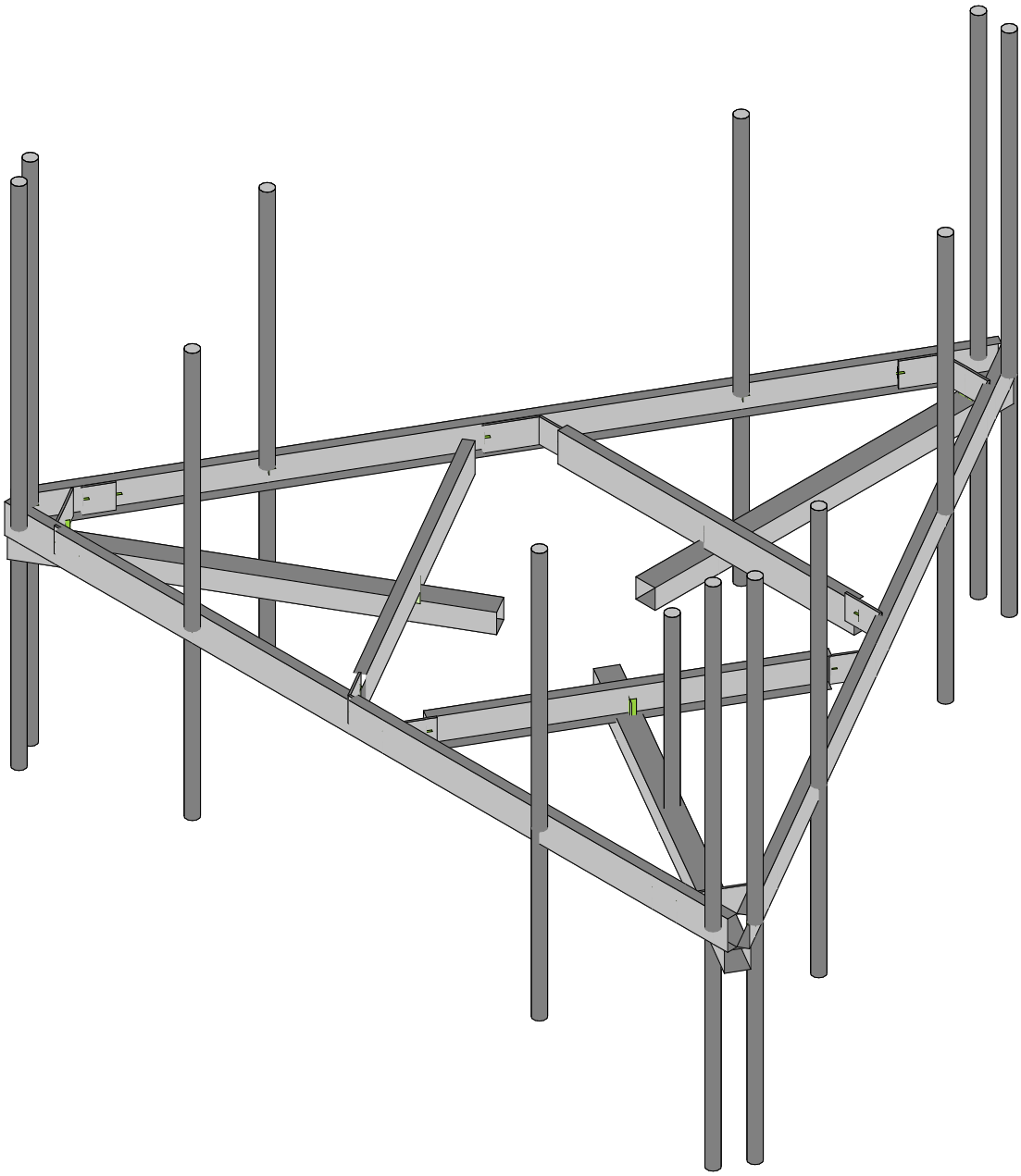


15718

Please Insert Sketches of the Antenna Mount, cont'd



STANDOFF MOUNT CONNECTION DETAIL



Envelope Only Solution

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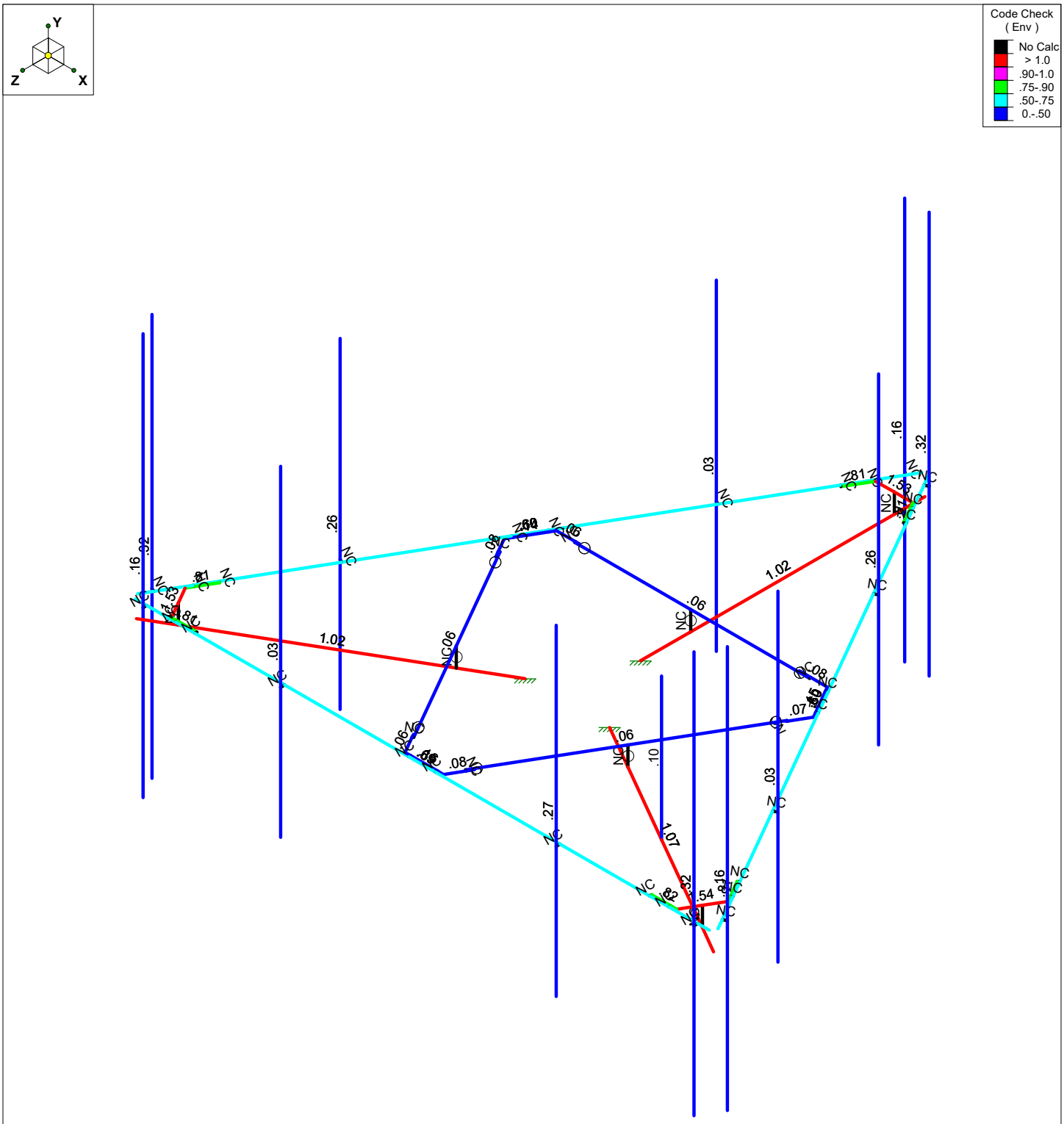
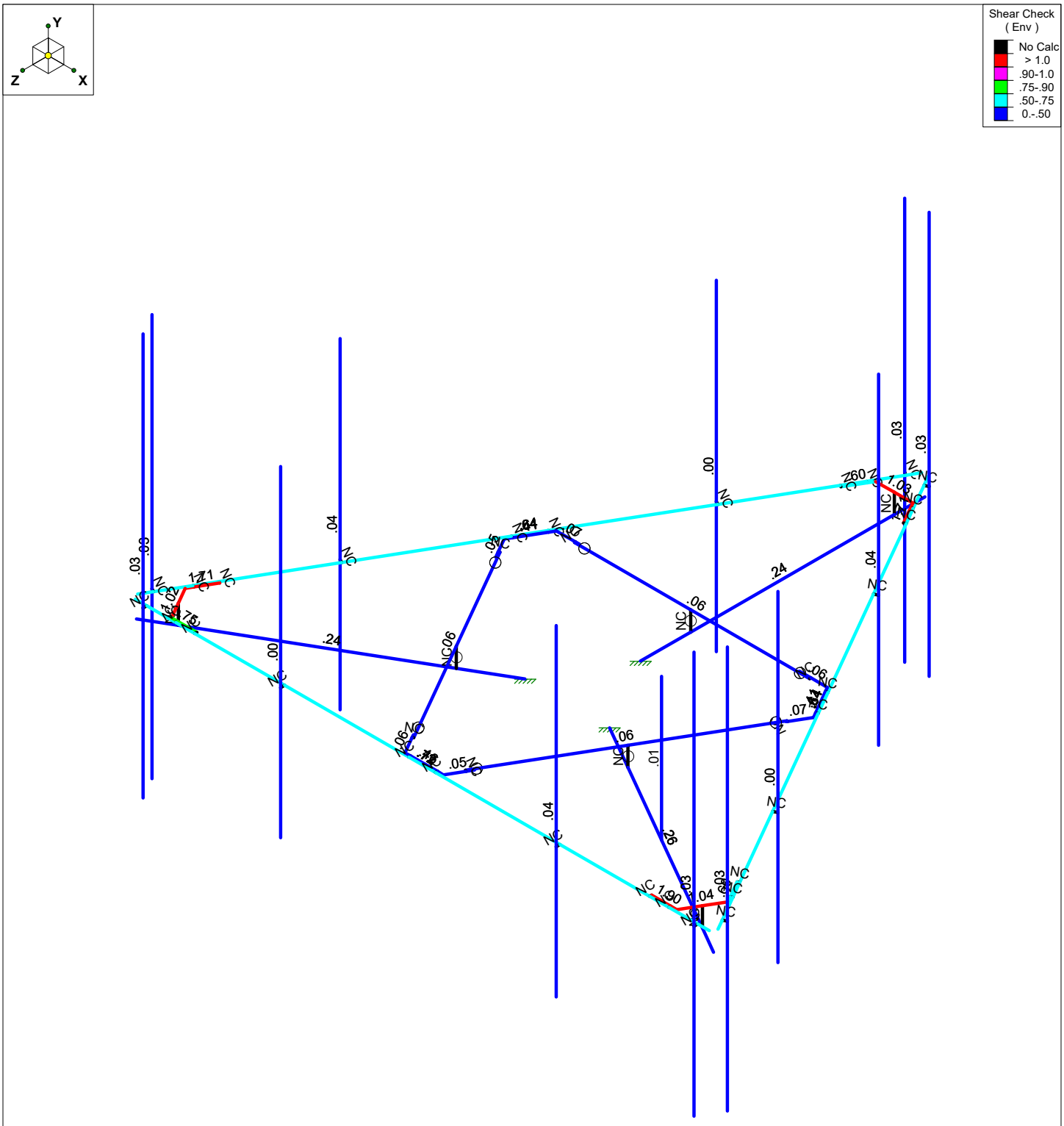
		467421-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 2
		Nov 10, 2022 at 3:54 PM
		467421-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		Nov 10, 2022 at 3:54 PM
		467421-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					84			
2	Antenna Di	None					84			
3	Antenna Wo (0 Deg)	None					84			
4	Antenna Wo (30 Deg)	None					84			
5	Antenna Wo (60 Deg)	None					84			
6	Antenna Wo (90 Deg)	None					84			
7	Antenna Wo (120 Deg)	None					84			
8	Antenna Wo (150 Deg)	None					84			
9	Antenna Wo (180 Deg)	None					84			
10	Antenna Wo (210 Deg)	None					84			
11	Antenna Wo (240 Deg)	None					84			
12	Antenna Wo (270 Deg)	None					84			
13	Antenna Wo (300 Deg)	None					84			
14	Antenna Wo (330 Deg)	None					84			
15	Antenna Wi (0 Deg)	None					84			
16	Antenna Wi (30 Deg)	None					84			
17	Antenna Wi (60 Deg)	None					84			
18	Antenna Wi (90 Deg)	None					84			
19	Antenna Wi (120 Deg)	None					84			
20	Antenna Wi (150 Deg)	None					84			
21	Antenna Wi (180 Deg)	None					84			
22	Antenna Wi (210 Deg)	None					84			
23	Antenna Wi (240 Deg)	None					84			
24	Antenna Wi (270 Deg)	None					84			
25	Antenna Wi (300 Deg)	None					84			
26	Antenna Wi (330 Deg)	None					84			
27	Antenna Wm (0 Deg)	None					84			
28	Antenna Wm (30 Deg)	None					84			
29	Antenna Wm (60 Deg)	None					84			
30	Antenna Wm (90 Deg)	None					84			
31	Antenna Wm (120 Deg)	None					84			
32	Antenna Wm (150 Deg)	None					84			
33	Antenna Wm (180 Deg)	None					84			
34	Antenna Wm (210 Deg)	None					84			
35	Antenna Wm (240 Deg)	None					84			
36	Antenna Wm (270 Deg)	None					84			
37	Antenna Wm (300 Deg)	None					84			
38	Antenna Wm (330 Deg)	None					84			
39	Structure D	None		-1					3	
40	Structure Di	None						40	3	
41	Structure Wo (0 Deg)	None						80		
42	Structure Wo (30 Deg)	None						80		
43	Structure Wo (60 Deg)	None						80		
44	Structure Wo (90 Deg)	None						80		
45	Structure Wo (120 Deg)	None						80		
46	Structure Wo (150 Deg)	None						80		
47	Structure Wo (180 Deg)	None						80		
48	Structure Wo (210 Deg)	None						80		
49	Structure Wo (240 Deg)	None						80		
50	Structure Wo (270 Deg)	None						80		
51	Structure Wo (300 Deg)	None						80		
52	Structure Wo (330 Deg)	None						80		
53	Structure Wi (0 Deg)	None						80		
54	Structure Wi (30 Deg)	None						80		
55	Structure Wi (60 Deg)	None						80		
56	Structure Wi (90 Deg)	None						80		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
57	Structure Wi (120 Deg)	None						80		
58	Structure Wi (150 Deg)	None						80		
59	Structure Wi (180 Deg)	None						80		
60	Structure Wi (210 Deg)	None						80		
61	Structure Wi (240 Deg)	None						80		
62	Structure Wi (270 Deg)	None						80		
63	Structure Wi (300 Deg)	None						80		
64	Structure Wi (330 Deg)	None						80		
65	Structure Wm (0 Deg)	None						80		
66	Structure Wm (30 Deg)	None						80		
67	Structure Wm (60 Deg)	None						80		
68	Structure Wm (90 Deg)	None						80		
69	Structure Wm (120 Deg)	None						80		
70	Structure Wm (150 Deg)	None						80		
71	Structure Wm (180 Deg)	None						80		
72	Structure Wm (210 Deg)	None						80		
73	Structure Wm (240 Deg)	None						80		
74	Structure Wm (270 Deg)	None						80		
75	Structure Wm (300 Deg)	None						80		
76	Structure Wm (330 Deg)	None						80		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					84			
82	Antenna Eh (0 Deg)	None					56			
83	Antenna Eh (90 Deg)	None					56			
84	Structure Ev	ELY		-.043					3	
85	Structure Eh (0 Deg)	ELZ			-.107				3	
86	Structure Eh (90 Deg)	ELX	.107						3	
87	BLC 39 Transient Area Loads	None						68		
88	BLC 40 Transient Area Loads	None						74		
89	BLC 84 Transient Area Loads	None						68		
90	BLC 85 Transient Area Loads	None						68		
91	BLC 86 Transient Area Loads	None						68		

Load Combinations

	Description	Sol...	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 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										

Load Combinations (Continued)

	Description	Sol...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
18	1.2D + 1.0Di + 1.0Wi (150 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi (180 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0Wi (210 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi (240 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi (270 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi (300 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (330 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (...	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	1.2D + 1.0Ev + 1.0Eh (0 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83		ELZ	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (30 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	ELZ	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0Eh (60 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	ELZ	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0Eh (90 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	ELZ		E...	1				
56	1.2D + 1.0Ev + 1.0Eh (120...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	ELZ	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0Eh (150...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.866	83	.5	ELZ	-.866	E...	.5				
58	1.2D + 1.0Ev + 1.0Eh (180...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		ELZ	-1	E...					
59	1.2D + 1.0Ev + 1.0Eh (210...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.866	83	-.5	ELZ	-.866	E...	-.5				
60	1.2D + 1.0Ev + 1.0Eh (240...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.866	ELZ	-.5	E...	-.866				
61	1.2D + 1.0Ev + 1.0Eh (270...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	ELZ		E...	-1				
62	1.2D + 1.0Ev + 1.0Eh (300...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.866	ELZ	.5	E...	-.866				
63	1.2D + 1.0Ev + 1.0Eh (330...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	ELZ	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh (0 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		ELZ	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (30 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	ELZ	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh (60 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	ELZ	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh (90 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	ELZ		E...	1				
68	0.9D - 1.0Ev + 1.0Eh (120 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	ELZ	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh (150 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.866	83	.5	ELZ	-.866	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh (180 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		ELZ	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh (210 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.866	83	-.5	ELZ	-.866	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh (240 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.866	ELZ	-.5	E...	-.866				
73	0.9D - 1.0Ev + 1.0Eh (270 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	ELZ		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh (300 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.866	ELZ	.5	E...	-.866				

Load Combinations (Continued)

	Description	Sol...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
75	0.9D - 1.0Ev + 1.0Eh (330 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	ELZ	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N153	-0.406038	.42	-6.590793	0	
2	N160	0.405754	.42	-6.590793	0	
3	N1	-0.000143	-0.000033	-1.062833	0	
4	N2	-0.000143	-0.000033	-7.257459	0	
5	N3	0.920009	-0.000033	0.530917	0	
6	N4	6.284713	-0.000033	3.62823	0	
7	N5	-0.920295	-0.000033	0.530917	0	
8	N6	-6.284999	-0.000033	3.62823	0	
9	N14	3.340275	.42	-1.592429	0	
10	N16	3.048861	.42	-2.097172	0	
11	N18	-3.340688	.42	-1.59221	0	
12	N20	-3.049021	.42	-2.097391	0	
13	N22	0.291271	.42	3.688602	0	
14	N24	-0.292062	.42	3.688602	0	
15	N28	2.336936	.42	-2.185115	0	
16	N40	-0.681984	.42	-6.11284	0	
17	N51	2.591115	.42	-2.155737	0	
18	N57	-2.533424	.42	-2.160045	0	
19	N61	-0.000143	.42	-6.590793	0	
20	N62	-0.000143	-0.000033	-6.590793	0	
21	N71	-0.001537	.42	-2.157917	0	
22	N72	-0.000143	-0.000033	-2.157917	0	
23	N85	-0.069854	.42	-7.257459	0	
24	N86	-6.319854	.42	3.567858	0	
25	N87	-6.267023	-3.163333	3.309685	0	
26	N88	-6.267023	5.586667	3.309685	0	
27	N89	-4.767023	-2.413333	0.711609	0	
28	N90	-4.767023	4.586667	0.711609	0	
29	N91	-6.267023	.42	3.309685	0	
30	N92	-6.194854	.42	3.351352	0	
31	N93	-4.767023	.42	0.711609	0	
32	N94	-4.694854	.42	0.753276	0	
33	N95	-1.767023	-2.413333	-4.484543	0	
34	N96	-1.767023	4.586667	-4.484543	0	
35	N97	-1.767023	.42	-4.484543	0	
36	N98	-1.694854	.42	-4.442877	0	
37	N99	-0.267023	-3.163333	-7.08262	0	
38	N100	-0.267023	5.586667	-7.08262	0	
39	N101	-0.267023	.42	-7.08262	0	
40	N102	-0.194854	.42	-7.040953	0	
41	N103	-6.250143	.42	3.688602	0	
42	N104	6.249857	.42	3.688602	0	
43	N105	5.999857	-3.163333	3.771935	0	
44	N106	5.999857	5.586667	3.771935	0	
45	N107	2.999857	-2.413333	3.771935	0	
46	N108	2.999857	4.586667	3.771935	0	
47	N109	5.999857	.42	3.771935	0	
48	N110	5.999857	.42	3.688602	0	
49	N111	2.999857	.42	3.771935	0	
50	N112	2.999857	.42	3.688602	0	
51	N113	-3.000143	-2.413333	3.771935	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N114	-3.000143	4.586667	3.771935	0	
53	N115	-3.000143	.42	3.771935	0	
54	N116	-3.000143	.42	3.688602	0	
55	N117	-6.000143	-3.163333	3.771935	0	
56	N118	-6.000143	5.586667	3.771935	0	
57	N119	-6.000143	.42	3.771935	0	
58	N120	-6.000143	.42	3.688602	0	
59	N121	6.319568	.42	3.567858	0	
60	N122	0.069568	.42	-7.257459	0	
61	N123	0.266737	-3.163333	-7.08262	0	
62	N124	0.266737	5.586667	-7.08262	0	
63	N125	1.766737	-2.413333	-4.484543	0	
64	N126	1.766737	4.586667	-4.484543	0	
65	N127	0.266737	.42	-7.08262	0	
66	N128	0.194568	.42	-7.040953	0	
67	N129	1.766737	.42	-4.484543	0	
68	N130	1.694568	.42	-4.442877	0	
69	N131	4.766737	-2.413333	0.711609	0	
70	N132	4.766737	4.586667	0.711609	0	
71	N133	4.766737	.42	0.711609	0	
72	N134	4.694568	.42	0.753276	0	
73	N135	6.266737	-3.163333	3.309685	0	
74	N136	6.266737	5.586667	3.309685	0	
75	N137	6.266737	.42	3.309685	0	
76	N138	6.194568	.42	3.351352	0	
77	N142	-0.000143	-0.000033	-0.000333	0	
78	N140	3.602361	-0.000033	2.079573	0	
79	N141	3.602361	3.086667	2.079573	0	
80	N142A	0.291271	.42	3.646412	0	
81	N144	-0.292062	.42	3.646412	0	
82	N144A	-3.30415	.42	-1.571115	0	
83	N146	-3.012483	.42	-2.076296	0	
84	N146A	3.303738	.42	-1.571334	0	
85	N148	3.012324	.42	-2.076078	0	
86	N148A	0.416271	.42	3.646368	0	
87	N150	-0.416557	.42	3.646368	0	
88	N144B	0.664392	.42	3.212276	0	
89	N145	-0.66672	.42	3.21345	0	
90	N146B	-3.366524	.42	-1.463081	0	
91	N148B	-2.95011	.42	-2.184331	0	
92	N142B	-3.116668	.42	-1.029984	0	
93	N143	-2.450111	.42	-2.184499	0	
94	N144C	3.366238	.42	-1.463081	0	
95	N146C	2.949824	.42	-2.184331	0	
96	N143A	3.138932	.42	-1.088461	0	
97	N147	-0.509854	.42	-6.495357	0	
98	N149	-0.718521	.42	-6.133935	0	
99	N152	-0.473317	.42	-6.474262	0	
100	N155	0.6817	.42	-6.11284	0	
101	N156	0.50957	.42	-6.495357	0	
102	N157	0.473033	.42	-6.474262	0	
103	N158	0.718237	.42	-6.133935	0	
104	N139	-5.707648	.42	3.294897	0	
105	N161	-5.707648	-0.000033	3.294897	0	
106	N162	-5.843317	.42	2.826849	0	
107	N163	-5.504701	.42	3.646412	0	
108	N164	-4.952809	.42	3.646412	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N165	-5.370142	.42	3.688602	0	
110	N166	-5.370142	.42	3.646412	0	
111	N167	-4.952809	.42	3.688602	0	
112	N168	-5.634651	.42	2.465428	0	
113	N169	-5.879855	.42	2.805754	0	
114	N170	-5.671188	.42	2.444333	0	
115	N171	-5.910597	.42	2.94338	0	
116	N172	5.707363	.42	3.294897	0	
117	N173	5.707363	-0.000033	3.294897	0	
118	N174	5.369856	.42	3.646413	0	
119	N175	5.91031	.42	2.943381	0	
120	N176	5.634364	.42	2.465429	0	
121	N177	5.879568	.42	2.805755	0	
122	N178	5.843031	.42	2.82685	0	
123	N179	5.670902	.42	2.444334	0	
124	N180	4.952522	.42	3.646413	0	
125	N181	5.369856	.42	3.688603	0	
126	N182	4.952522	.42	3.688603	0	
127	N183	5.504414	.42	3.646413	0	
128	N154	-2.53341	.42	-2.184331	0	
129	N159	2.591067	.42	-2.18479	0	
130	N185	3.359824	.42	-1.47419	0	
131	N187	-1.867966	.42	1.07967	0	
132	N193	1.869078	.42	1.077248	0	
133	N151	-3.162407	.42	-1.166726	0	
134	N184	-0.603868	.42	3.273409	0	
135	N186	-3.187543	.42	-1.152158	0	
136	N189	-0.624907	.42	3.285539	0	
137	N190	0.570863	.42	3.321464	0	
138	N191	3.136863	.42	-1.114363	0	
139	N192	0.596047	.42	3.335949	0	
140	N195	3.157888	.42	-1.102208	0	
141	N142C	-1.868665	-0.000033	1.078459	0	
142	N145A	1.86838	-0.000033	1.078459	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Mount Pipe EH	PIPE_2.0X	Column	Pipe	A53 Gr.B	Typical	1.4	.827	.827	1.65
3	Intermediate Horizontals	C6X8.2	Beam	RECT	A36 Gr.36	Typical	2.39	.687	13.1	.074
4	Face Horizontal	C6X8.2	Beam	Channel	A36 Gr.36	Typical	2.39	.687	13.1	.074
5	HSS Tubes	HSS4X4X3	Beam	SquareTube	A36 Gr.36	Typical	2.58	6.21	6.21	10
6	Corner Plates	PL3/8x5	Beam	RECT	A36 Gr.36	Typical	1.875	.022	3.906	.084
7	Face Plates	PL3/8x5	Beam	RECT	A36 Gr.36	Typical	1.875	.022	3.906	.084
8	Mount Pipe Double	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			HSS Tubes	Beam	SquareTube	A36 Gr.36	Typical
2	M2	N3	N4			HSS Tubes	Beam	SquareTube	A36 Gr.36	Typical
3	M3	N5	N6			HSS Tubes	Beam	SquareTube	A36 Gr.36	Typical
4	M5	N153	N160			Corner Plates	Beam	RECT	A36 Gr.36	Typical
5	M7	N57	N51		180	Intermediate H...	Beam	RECT	A36 Gr.36	Typical
6	M14	N146A	N14			RIGID	None	None	RIGID	Typical
7	M15	N148	N16			RIGID	None	None	RIGID	Typical
8	M16	N144A	N18			RIGID	None	None	RIGID	Typical
9	M17	N146	N20			RIGID	None	None	RIGID	Typical
10	M18	N142A	N22			RIGID	None	None	RIGID	Typical
11	M19	N144	N24			RIGID	None	None	RIGID	Typical
12	M38	N61	N62		30	RIGID	None	None	RIGID	Typical
13	M43	N71	N72		90	RIGID	None	None	RIGID	Typical
14	M50	N86	N85			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
15	MP1B	N88	N87		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
16	MP2B	N90	N89		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
17	M53	N91	N92			RIGID	None	None	RIGID	Typical
18	M54	N93	N94			RIGID	None	None	RIGID	Typical
19	MP3B	N96	N95		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
20	M56	N97	N98			RIGID	None	None	RIGID	Typical
21	MP4B	N100	N99		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
22	M58	N101	N102			RIGID	None	None	RIGID	Typical
23	F	N104	N103			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
24	MP1A	N106	N105		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
25	MP2A	N108	N107		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
26	M62	N109	N110			RIGID	None	None	RIGID	Typical
27	M63	N111	N112			RIGID	None	None	RIGID	Typical
28	MP3A	N114	N113		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
29	1	N115	N116			RIGID	None	None	RIGID	Typical
30	MP4A	N118	N117		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
31	2	N119	N120			RIGID	None	None	RIGID	Typical
32	M68	N122	N121			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
33	MP1C	N124	N123		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
34	MP2C	N126	N125		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
35	M71	N127	N128			RIGID	None	None	RIGID	Typical
36	M72	N129	N130			RIGID	None	None	RIGID	Typical
37	MP3C	N132	N131		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
38	M74	N133	N134			RIGID	None	None	RIGID	Typical
39	MP4C	N136	N135		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
40	M76	N137	N138			RIGID	None	None	RIGID	Typical
41	M76A	N141	N140			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
42	M77	N148A	N150			Face Plates	Beam	RECT	A36 Gr.36	Typical
43	M75	N150	N145			Face Plates	Beam	RECT	A36 Gr.36	Typical
44	M76B	N148A	N144B			Face Plates	Beam	RECT	A36 Gr.36	Typical
45	M77A	N148B	N146B			Face Plates	Beam	RECT	A36 Gr.36	Typical
46	M75A	N146B	N142B			Face Plates	Beam	RECT	A36 Gr.36	Typical
47	M76C	N148B	N143			Face Plates	Beam	RECT	A36 Gr.36	Typical
48	M77B	N146C	N144C			Face Plates	Beam	RECT	A36 Gr.36	Typical
49	M75B	N144C	N143A			Face Plates	Beam	RECT	A36 Gr.36	Typical
50	M76D	N146C	N28			Face Plates	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
51	M78	N40	N149			RIGID	None	None	RIGID	Typical
52	M79	N152	N147			RIGID	None	None	RIGID	Typical
53	M80	N40	N153			Corner Plates	Beam	RECT	A36 Gr.36	Typical
54	M81	N157	N156			RIGID	None	None	RIGID	Typical
55	M82	N155	N158			RIGID	None	None	RIGID	Typical
56	M83	N155	N160			Corner Plates	Beam	RECT	A36 Gr.36	Typical
57	M73	N139	N161		30	RIGID	None	None	RIGID	Typical
58	M84	N166	N165			RIGID	None	None	RIGID	Typical
59	M85	N164	N167			RIGID	None	None	RIGID	Typical
60	M86	N162	N169			RIGID	None	None	RIGID	Typical
61	M87	N168	N170			RIGID	None	None	RIGID	Typical
62	M88	N163	N171			Corner Plates	Beam	RECT	A36 Gr.36	Typical
63	M89	N164	N163			Corner Plates	Beam	RECT	A36 Gr.36	Typical
64	M90	N168	N171			Corner Plates	Beam	RECT	A36 Gr.36	Typical
65	M91	N172	N173		30	RIGID	None	None	RIGID	Typical
66	M92	N178	N177			RIGID	None	None	RIGID	Typical
67	M93	N176	N179			RIGID	None	None	RIGID	Typical
68	M94	N174	N181			RIGID	None	None	RIGID	Typical
69	M95	N180	N182			RIGID	None	None	RIGID	Typical
70	M96	N175	N183			Corner Plates	Beam	RECT	A36 Gr.36	Typical
71	M97	N176	N175			Corner Plates	Beam	RECT	A36 Gr.36	Typical
72	M98	N180	N183			Corner Plates	Beam	RECT	A36 Gr.36	Typical
73	M108	N57	N154			RIGID	None	None	RIGID	Typical
74	M109	N51	N159			RIGID	None	None	RIGID	Typical
75	M107	N151	N186			RIGID	None	None	RIGID	Typical
76	M110	N184	N189			RIGID	None	None	RIGID	Typical
77	M114	N184	N151		180	Intermediate H...	Beam	RECT	A36 Gr.36	Typical
78	M117	N190	N192			RIGID	None	None	RIGID	Typical
79	M122	N191	N195			RIGID	None	None	RIGID	Typical
80	M125	N191	N190		180	Intermediate H...	Beam	RECT	A36 Gr.36	Typical
81	M81A	N187	N142C		90	RIGID	None	None	RIGID	Typical
82	M82A	N193	N145A		90	RIGID	None	None	RIGID	Typical

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	Y	-32	1.5
2	M76A	My	0	1.5
3	M76A	Mz	0	1.5
4	MP2A	Y	-23	1
5	MP2A	My	-.006	1
6	MP2A	Mz	.018	1
7	MP2A	Y	-23	5
8	MP2A	My	-.006	5
9	MP2A	Mz	.018	5
10	MP2B	Y	-23	1
11	MP2B	My	-.018	1
12	MP2B	Mz	-.006	1
13	MP2B	Y	-23	5
14	MP2B	My	-.018	5
15	MP2B	Mz	-.006	5
16	MP2C	Y	-23	1
17	MP2C	My	.014	1
18	MP2C	Mz	-.013	1
19	MP2C	Y	-23	5
20	MP2C	My	.014	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2C	Mz	-.013	5
22	MP2A	Y	-23	1
23	MP2A	My	-.016	1
24	MP2A	Mz	-.01	1
25	MP2A	Y	-23	5
26	MP2A	My	-.016	5
27	MP2A	Mz	-.01	5
28	MP2B	Y	-23	1
29	MP2B	My	.01	1
30	MP2B	Mz	-.016	1
31	MP2B	Y	-23	5
32	MP2B	My	.01	5
33	MP2B	Mz	-.016	5
34	MP2C	Y	-23	1
35	MP2C	My	.009	1
36	MP2C	Mz	.017	1
37	MP2C	Y	-23	5
38	MP2C	My	.009	5
39	MP2C	Mz	.017	5
40	MP2A	Y	-84.4	2.5
41	MP2A	My	.04	2.5
42	MP2A	Mz	-.014	2.5
43	MP2B	Y	-84.4	2.5
44	MP2B	My	.014	2.5
45	MP2B	Mz	.04	2.5
46	MP2C	Y	-84.4	2.5
47	MP2C	My	-.042	2.5
48	MP2C	Mz	-.007	2.5
49	MP1A	Y	-8.5	2
50	MP1A	My	-.004	2
51	MP1A	Mz	.001	2
52	MP1A	Y	-8.5	6
53	MP1A	My	-.004	6
54	MP1A	Mz	.001	6
55	MP1B	Y	-8.5	2
56	MP1B	My	-.001	2
57	MP1B	Mz	-.004	2
58	MP1B	Y	-8.5	6
59	MP1B	My	-.001	6
60	MP1B	Mz	-.004	6
61	MP1C	Y	-8.5	2
62	MP1C	My	.004	2
63	MP1C	Mz	.000738	2
64	MP1C	Y	-8.5	6
65	MP1C	My	.004	6
66	MP1C	Mz	.000738	6
67	MP1A	Y	-70.3	3.5
68	MP1A	My	.033	3.5
69	MP1A	Mz	-.012	3.5
70	MP1B	Y	-70.3	3.5
71	MP1B	My	.012	3.5
72	MP1B	Mz	.033	3.5
73	MP1C	Y	-70.3	3.5
74	MP1C	My	-.035	3.5
75	MP1C	Mz	-.006	3.5
76	MP4A	Y	-87.1	4
77	MP4A	My	-.041	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mz	.015	4
79	MP4B	Y	-87.1	4
80	MP4B	My	-.015	4
81	MP4B	Mz	-.041	4
82	MP4C	Y	-87.1	4
83	MP4C	My	.043	4
84	MP4C	Mz	.008	4

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	Y	-87.932	1.5
2	M76A	My	0	1.5
3	M76A	Mz	0	1.5
4	MP2A	Y	-82.483	1
5	MP2A	My	-.02	1
6	MP2A	Mz	.066	1
7	MP2A	Y	-82.483	5
8	MP2A	My	-.02	5
9	MP2A	Mz	.066	5
10	MP2B	Y	-82.483	1
11	MP2B	My	-.066	1
12	MP2B	Mz	-.02	1
13	MP2B	Y	-82.483	5
14	MP2B	My	-.066	5
15	MP2B	Mz	-.02	5
16	MP2C	Y	-82.483	1
17	MP2C	My	.05	1
18	MP2C	Mz	-.047	1
19	MP2C	Y	-82.483	5
20	MP2C	My	.05	5
21	MP2C	Mz	-.047	5
22	MP2A	Y	-82.483	1
23	MP2A	My	-.058	1
24	MP2A	Mz	-.038	1
25	MP2A	Y	-82.483	5
26	MP2A	My	-.058	5
27	MP2A	Mz	-.038	5
28	MP2B	Y	-82.483	1
29	MP2B	My	.038	1
30	MP2B	Mz	-.058	1
31	MP2B	Y	-82.483	5
32	MP2B	My	.038	5
33	MP2B	Mz	-.058	5
34	MP2C	Y	-82.483	1
35	MP2C	My	.031	1
36	MP2C	Mz	.061	1
37	MP2C	Y	-82.483	5
38	MP2C	My	.031	5
39	MP2C	Mz	.061	5
40	MP2A	Y	-44.91	2.5
41	MP2A	My	.021	2.5
42	MP2A	Mz	-.008	2.5
43	MP2B	Y	-44.91	2.5
44	MP2B	My	.008	2.5
45	MP2B	Mz	.021	2.5
46	MP2C	Y	-44.91	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP2C	My	-.022	2.5
48	MP2C	Mz	-.004	2.5
49	MP1A	Y	-51.765	2
50	MP1A	My	-.024	2
51	MP1A	Mz	.009	2
52	MP1A	Y	-51.765	6
53	MP1A	My	-.024	6
54	MP1A	Mz	.009	6
55	MP1B	Y	-51.765	2
56	MP1B	My	-.009	2
57	MP1B	Mz	-.024	2
58	MP1B	Y	-51.765	6
59	MP1B	My	-.009	6
60	MP1B	Mz	-.024	6
61	MP1C	Y	-51.765	2
62	MP1C	My	.025	2
63	MP1C	Mz	.004	2
64	MP1C	Y	-51.765	6
65	MP1C	My	.025	6
66	MP1C	Mz	.004	6
67	MP1A	Y	-40.388	3.5
68	MP1A	My	.019	3.5
69	MP1A	Mz	-.007	3.5
70	MP1B	Y	-40.388	3.5
71	MP1B	My	.007	3.5
72	MP1B	Mz	.019	3.5
73	MP1C	Y	-40.388	3.5
74	MP1C	My	-.02	3.5
75	MP1C	Mz	-.004	3.5
76	MP4A	Y	-71.243	4
77	MP4A	My	-.033	4
78	MP4A	Mz	.012	4
79	MP4B	Y	-71.243	4
80	MP4B	My	-.012	4
81	MP4B	Mz	-.033	4
82	MP4C	Y	-71.243	4
83	MP4C	My	.035	4
84	MP4C	Mz	.006	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	0	1.5
2	M76A	Z	-97.503	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	0	1
5	MP2A	Z	-72.639	1
6	MP2A	Mx	-.058	1
7	MP2A	X	0	5
8	MP2A	Z	-72.639	5
9	MP2A	Mx	-.058	5
10	MP2B	X	0	1
11	MP2B	Z	-58.215	1
12	MP2B	Mx	.014	1
13	MP2B	X	0	5
14	MP2B	Z	-58.215	5
15	MP2B	Mx	.014	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	0	1
17	MP2C	Z	-74.274	1
18	MP2C	Mx	.042	1
19	MP2C	X	0	5
20	MP2C	Z	-74.274	5
21	MP2C	Mx	.042	5
22	MP2A	X	0	1
23	MP2A	Z	-72.639	1
24	MP2A	Mx	.033	1
25	MP2A	X	0	5
26	MP2A	Z	-72.639	5
27	MP2A	Mx	.033	5
28	MP2B	X	0	1
29	MP2B	Z	-58.215	1
30	MP2B	Mx	.041	1
31	MP2B	X	0	5
32	MP2B	Z	-58.215	5
33	MP2B	Mx	.041	5
34	MP2C	X	0	1
35	MP2C	Z	-74.274	1
36	MP2C	Mx	-.055	1
37	MP2C	X	0	5
38	MP2C	Z	-74.274	5
39	MP2C	Mx	-.055	5
40	MP2A	X	0	2.5
41	MP2A	Z	-47.162	2.5
42	MP2A	Mx	.008	2.5
43	MP2B	X	0	2.5
44	MP2B	Z	-34.799	2.5
45	MP2B	Mx	-.016	2.5
46	MP2C	X	0	2.5
47	MP2C	Z	-48.564	2.5
48	MP2C	Mx	.004	2.5
49	MP1A	X	0	2
50	MP1A	Z	-113.463	2
51	MP1A	Mx	-.019	2
52	MP1A	X	0	6
53	MP1A	Z	-113.463	6
54	MP1A	Mx	-.019	6
55	MP1B	X	0	2
56	MP1B	Z	-72.108	2
57	MP1B	Mx	.034	2
58	MP1B	X	0	6
59	MP1B	Z	-72.108	6
60	MP1B	Mx	.034	6
61	MP1C	X	0	2
62	MP1C	Z	-118.15	2
63	MP1C	Mx	-.01	2
64	MP1C	X	0	6
65	MP1C	Z	-118.15	6
66	MP1C	Mx	-.01	6
67	MP1A	X	0	3.5
68	MP1A	Z	-46.459	3.5
69	MP1A	Mx	.008	3.5
70	MP1B	X	0	3.5
71	MP1B	Z	-29.49	3.5
72	MP1B	Mx	-.014	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP1C	X	0	3.5
74	MP1C	Z	-48.382	3.5
75	MP1C	Mx	.004	3.5
76	MP4A	X	0	4
77	MP4A	Z	-114.536	4
78	MP4A	Mx	-.02	4
79	MP4B	X	0	4
80	MP4B	Z	-52.235	4
81	MP4B	Mx	.025	4
82	MP4C	X	0	4
83	MP4C	Z	-121.598	4
84	MP4C	Mx	-.011	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	43.101	1.5
2	M76A	Z	-74.654	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	31.896	1
5	MP2A	Z	-55.246	1
6	MP2A	Mx	-.052	1
7	MP2A	X	31.896	5
8	MP2A	Z	-55.246	5
9	MP2A	Mx	-.052	5
10	MP2B	X	33.531	1
11	MP2B	Z	-58.077	1
12	MP2B	Mx	-.013	1
13	MP2B	X	33.531	5
14	MP2B	Z	-58.077	5
15	MP2B	Mx	-.013	5
16	MP2C	X	36.319	1
17	MP2C	Z	-62.907	1
18	MP2C	Mx	.058	1
19	MP2C	X	36.319	5
20	MP2C	Z	-62.907	5
21	MP2C	Mx	.058	5
22	MP2A	X	31.896	1
23	MP2A	Z	-55.246	1
24	MP2A	Mx	.003	1
25	MP2A	X	31.896	5
26	MP2A	Z	-55.246	5
27	MP2A	Mx	.003	5
28	MP2B	X	33.531	1
29	MP2B	Z	-58.077	1
30	MP2B	Mx	.056	1
31	MP2B	X	33.531	5
32	MP2B	Z	-58.077	5
33	MP2B	Mx	.056	5
34	MP2C	X	36.319	1
35	MP2C	Z	-62.907	1
36	MP2C	Mx	-.033	1
37	MP2C	X	36.319	5
38	MP2C	Z	-62.907	5
39	MP2C	Mx	-.033	5
40	MP2A	X	19.79	2.5
41	MP2A	Z	-34.277	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP2A	Mx	.015	2.5
43	MP2B	X	21.191	2.5
44	MP2B	Z	-36.704	2.5
45	MP2B	Mx	-.014	2.5
46	MP2C	X	23.581	2.5
47	MP2C	Z	-40.844	2.5
48	MP2C	Mx	-.008	2.5
49	MP1A	X	44.049	2
50	MP1A	Z	-76.295	2
51	MP1A	Mx	-.034	2
52	MP1A	X	44.049	6
53	MP1A	Z	-76.295	6
54	MP1A	Mx	-.034	6
55	MP1B	X	48.736	2
56	MP1B	Z	-84.414	2
57	MP1B	Mx	.031	2
58	MP1B	X	48.736	6
59	MP1B	Z	-84.414	6
60	MP1B	Mx	.031	6
61	MP1C	X	56.731	2
62	MP1C	Z	-98.262	2
63	MP1C	Mx	.019	2
64	MP1C	X	56.731	6
65	MP1C	Z	-98.262	6
66	MP1C	Mx	.019	6
67	MP1A	X	18.026	3.5
68	MP1A	Z	-31.221	3.5
69	MP1A	Mx	.014	3.5
70	MP1B	X	19.949	3.5
71	MP1B	Z	-34.553	3.5
72	MP1B	Mx	-.013	3.5
73	MP1C	X	23.23	3.5
74	MP1C	Z	-40.235	3.5
75	MP1C	Mx	-.008	3.5
76	MP4A	X	38.162	4
77	MP4A	Z	-66.099	4
78	MP4A	Mx	-.029	4
79	MP4B	X	45.224	4
80	MP4B	Z	-78.329	4
81	MP4B	Mx	.029	4
82	MP4C	X	57.268	4
83	MP4C	Z	-99.191	4
84	MP4C	Mx	.02	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	66.676	1.5
2	M76A	Z	-38.495	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	49	1
5	MP2A	Z	-28.29	1
6	MP2A	Mx	-.034	1
7	MP2A	X	49	5
8	MP2A	Z	-28.29	5
9	MP2A	Mx	-.034	5
10	MP2B	X	64.323	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	-37.137	1
12	MP2B	Mx	-.042	1
13	MP2B	X	64.323	5
14	MP2B	Z	-37.137	5
15	MP2B	Mx	-.042	5
16	MP2C	X	55.246	1
17	MP2C	Z	-31.896	1
18	MP2C	Mx	.052	1
19	MP2C	X	55.246	5
20	MP2C	Z	-31.896	5
21	MP2C	Mx	.052	5
22	MP2A	X	49	1
23	MP2A	Z	-28.29	1
24	MP2A	Mx	-.021	1
25	MP2A	X	49	5
26	MP2A	Z	-28.29	5
27	MP2A	Mx	-.021	5
28	MP2B	X	64.323	1
29	MP2B	Z	-37.137	1
30	MP2B	Mx	.055	1
31	MP2B	X	64.323	5
32	MP2B	Z	-37.137	5
33	MP2B	Mx	.055	5
34	MP2C	X	55.246	1
35	MP2C	Z	-31.896	1
36	MP2C	Mx	-.003	1
37	MP2C	X	55.246	5
38	MP2C	Z	-31.896	5
39	MP2C	Mx	-.003	5
40	MP2A	X	28.923	2.5
41	MP2A	Z	-16.699	2.5
42	MP2A	Mx	.016	2.5
43	MP2B	X	42.057	2.5
44	MP2B	Z	-24.282	2.5
45	MP2B	Mx	-.004	2.5
46	MP2C	X	34.277	2.5
47	MP2C	Z	-19.79	2.5
48	MP2C	Mx	-.015	2.5
49	MP1A	X	58.388	2
50	MP1A	Z	-33.71	2
51	MP1A	Mx	-.033	2
52	MP1A	X	58.388	6
53	MP1A	Z	-33.71	6
54	MP1A	Mx	-.033	6
55	MP1B	X	102.321	2
56	MP1B	Z	-59.075	2
57	MP1B	Mx	.01	2
58	MP1B	X	102.321	6
59	MP1B	Z	-59.075	6
60	MP1B	Mx	.01	6
61	MP1C	X	76.295	2
62	MP1C	Z	-44.049	2
63	MP1C	Mx	.034	2
64	MP1C	X	76.295	6
65	MP1C	Z	-44.049	6
66	MP1C	Mx	.034	6
67	MP1A	X	23.873	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP1A	Z	-13.783	3.5
69	MP1A	Mx	.014	3.5
70	MP1B	X	41.9	3.5
71	MP1B	Z	-24.191	3.5
72	MP1B	Mx	-.004	3.5
73	MP1C	X	31.221	3.5
74	MP1C	Z	-18.026	3.5
75	MP1C	Mx	-.014	3.5
76	MP4A	X	39.122	4
77	MP4A	Z	-22.587	4
78	MP4A	Mx	-.022	4
79	MP4B	X	105.307	4
80	MP4B	Z	-60.799	4
81	MP4B	Mx	.011	4
82	MP4C	X	66.099	4
83	MP4C	Z	-38.162	4
84	MP4C	Mx	.029	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	79.079	1.5
2	M76A	Z	0	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	58.215	1
5	MP2A	Z	0	1
6	MP2A	Mx	-.014	1
7	MP2A	X	58.215	5
8	MP2A	Z	0	5
9	MP2A	Mx	-.014	5
10	MP2B	X	72.639	1
11	MP2B	Z	0	1
12	MP2B	Mx	-.058	1
13	MP2B	X	72.639	5
14	MP2B	Z	0	5
15	MP2B	Mx	-.058	5
16	MP2C	X	56.58	1
17	MP2C	Z	0	1
18	MP2C	Mx	.034	1
19	MP2C	X	56.58	5
20	MP2C	Z	0	5
21	MP2C	Mx	.034	5
22	MP2A	X	58.215	1
23	MP2A	Z	0	1
24	MP2A	Mx	-.041	1
25	MP2A	X	58.215	5
26	MP2A	Z	0	5
27	MP2A	Mx	-.041	5
28	MP2B	X	72.639	1
29	MP2B	Z	0	1
30	MP2B	Mx	.033	1
31	MP2B	X	72.639	5
32	MP2B	Z	0	5
33	MP2B	Mx	.033	5
34	MP2C	X	56.58	1
35	MP2C	Z	0	1
36	MP2C	Mx	.021	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2C	X	56.58	5
38	MP2C	Z	0	5
39	MP2C	Mx	.021	5
40	MP2A	X	34.799	2.5
41	MP2A	Z	0	2.5
42	MP2A	Mx	.016	2.5
43	MP2B	X	47.162	2.5
44	MP2B	Z	0	2.5
45	MP2B	Mx	.008	2.5
46	MP2C	X	33.398	2.5
47	MP2C	Z	0	2.5
48	MP2C	Mx	-.016	2.5
49	MP1A	X	72.108	2
50	MP1A	Z	0	2
51	MP1A	Mx	-.034	2
52	MP1A	X	72.108	6
53	MP1A	Z	0	6
54	MP1A	Mx	-.034	6
55	MP1B	X	113.463	2
56	MP1B	Z	0	2
57	MP1B	Mx	-.019	2
58	MP1B	X	113.463	6
59	MP1B	Z	0	6
60	MP1B	Mx	-.019	6
61	MP1C	X	67.42	2
62	MP1C	Z	0	2
63	MP1C	Mx	.033	2
64	MP1C	X	67.42	6
65	MP1C	Z	0	6
66	MP1C	Mx	.033	6
67	MP1A	X	29.49	3.5
68	MP1A	Z	0	3.5
69	MP1A	Mx	.014	3.5
70	MP1B	X	46.459	3.5
71	MP1B	Z	0	3.5
72	MP1B	Mx	.008	3.5
73	MP1C	X	27.567	3.5
74	MP1C	Z	0	3.5
75	MP1C	Mx	-.014	3.5
76	MP4A	X	52.235	4
77	MP4A	Z	0	4
78	MP4A	Mx	-.025	4
79	MP4B	X	114.536	4
80	MP4B	Z	0	4
81	MP4B	Mx	-.02	4
82	MP4C	X	45.174	4
83	MP4C	Z	0	4
84	MP4C	Mx	.022	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	78.27	1.5
2	M76A	Z	45.189	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	58.077	1
5	MP2A	Z	33.531	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.013	1
7	MP2A	X	58.077	5
8	MP2A	Z	33.531	5
9	MP2A	Mx	.013	5
10	MP2B	X	55.246	1
11	MP2B	Z	31.896	1
12	MP2B	Mx	-.052	1
13	MP2B	X	55.246	5
14	MP2B	Z	31.896	5
15	MP2B	Mx	-.052	5
16	MP2C	X	50.416	1
17	MP2C	Z	29.107	1
18	MP2C	Mx	.014	1
19	MP2C	X	50.416	5
20	MP2C	Z	29.107	5
21	MP2C	Mx	.014	5
22	MP2A	X	58.077	1
23	MP2A	Z	33.531	1
24	MP2A	Mx	-.056	1
25	MP2A	X	58.077	5
26	MP2A	Z	33.531	5
27	MP2A	Mx	-.056	5
28	MP2B	X	55.246	1
29	MP2B	Z	31.896	1
30	MP2B	Mx	.003	1
31	MP2B	X	55.246	5
32	MP2B	Z	31.896	5
33	MP2B	Mx	.003	5
34	MP2C	X	50.416	1
35	MP2C	Z	29.107	1
36	MP2C	Mx	.041	1
37	MP2C	X	50.416	5
38	MP2C	Z	29.107	5
39	MP2C	Mx	.041	5
40	MP2A	X	36.704	2.5
41	MP2A	Z	21.191	2.5
42	MP2A	Mx	.014	2.5
43	MP2B	X	34.277	2.5
44	MP2B	Z	19.79	2.5
45	MP2B	Mx	.015	2.5
46	MP2C	X	30.137	2.5
47	MP2C	Z	17.4	2.5
48	MP2C	Mx	-.016	2.5
49	MP1A	X	84.414	2
50	MP1A	Z	48.736	2
51	MP1A	Mx	-.031	2
52	MP1A	X	84.414	6
53	MP1A	Z	48.736	6
54	MP1A	Mx	-.031	6
55	MP1B	X	76.295	2
56	MP1B	Z	44.049	2
57	MP1B	Mx	-.034	2
58	MP1B	X	76.295	6
59	MP1B	Z	44.049	6
60	MP1B	Mx	-.034	6
61	MP1C	X	62.447	2
62	MP1C	Z	36.054	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP1C	Mx	.034	2
64	MP1C	X	62.447	6
65	MP1C	Z	36.054	6
66	MP1C	Mx	.034	6
67	MP1A	X	34.553	3.5
68	MP1A	Z	19.949	3.5
69	MP1A	Mx	.013	3.5
70	MP1B	X	31.221	3.5
71	MP1B	Z	18.026	3.5
72	MP1B	Mx	.014	3.5
73	MP1C	X	25.539	3.5
74	MP1C	Z	14.745	3.5
75	MP1C	Mx	-.014	3.5
76	MP4A	X	78.329	4
77	MP4A	Z	45.224	4
78	MP4A	Mx	-.029	4
79	MP4B	X	66.099	4
80	MP4B	Z	38.162	4
81	MP4B	Mx	-.029	4
82	MP4C	X	45.237	4
83	MP4C	Z	26.117	4
84	MP4C	Mx	.025	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	49.795	1.5
2	M76A	Z	86.248	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	37.137	1
5	MP2A	Z	64.323	1
6	MP2A	Mx	.042	1
7	MP2A	X	37.137	5
8	MP2A	Z	64.323	5
9	MP2A	Mx	.042	5
10	MP2B	X	28.29	1
11	MP2B	Z	49	1
12	MP2B	Mx	-.034	1
13	MP2B	X	28.29	5
14	MP2B	Z	49	5
15	MP2B	Mx	-.034	5
16	MP2C	X	33.531	1
17	MP2C	Z	58.077	1
18	MP2C	Mx	-.013	1
19	MP2C	X	33.531	5
20	MP2C	Z	58.077	5
21	MP2C	Mx	-.013	5
22	MP2A	X	37.137	1
23	MP2A	Z	64.323	1
24	MP2A	Mx	-.055	1
25	MP2A	X	37.137	5
26	MP2A	Z	64.323	5
27	MP2A	Mx	-.055	5
28	MP2B	X	28.29	1
29	MP2B	Z	49	1
30	MP2B	Mx	-.021	1
31	MP2B	X	28.29	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2B	Z	49	5
33	MP2B	Mx	-.021	5
34	MP2C	X	33.531	1
35	MP2C	Z	58.077	1
36	MP2C	Mx	.056	1
37	MP2C	X	33.531	5
38	MP2C	Z	58.077	5
39	MP2C	Mx	.056	5
40	MP2A	X	24.282	2.5
41	MP2A	Z	42.057	2.5
42	MP2A	Mx	.004	2.5
43	MP2B	X	16.699	2.5
44	MP2B	Z	28.923	2.5
45	MP2B	Mx	.016	2.5
46	MP2C	X	21.191	2.5
47	MP2C	Z	36.704	2.5
48	MP2C	Mx	-.014	2.5
49	MP1A	X	59.075	2
50	MP1A	Z	102.321	2
51	MP1A	Mx	-.01	2
52	MP1A	X	59.075	6
53	MP1A	Z	102.321	6
54	MP1A	Mx	-.01	6
55	MP1B	X	33.71	2
56	MP1B	Z	58.388	2
57	MP1B	Mx	-.033	2
58	MP1B	X	33.71	6
59	MP1B	Z	58.388	6
60	MP1B	Mx	-.033	6
61	MP1C	X	48.736	2
62	MP1C	Z	84.414	2
63	MP1C	Mx	.031	2
64	MP1C	X	48.736	6
65	MP1C	Z	84.414	6
66	MP1C	Mx	.031	6
67	MP1A	X	24.191	3.5
68	MP1A	Z	41.9	3.5
69	MP1A	Mx	.004	3.5
70	MP1B	X	13.783	3.5
71	MP1B	Z	23.873	3.5
72	MP1B	Mx	.014	3.5
73	MP1C	X	19.949	3.5
74	MP1C	Z	34.553	3.5
75	MP1C	Mx	-.013	3.5
76	MP4A	X	60.799	4
77	MP4A	Z	105.307	4
78	MP4A	Mx	-.011	4
79	MP4B	X	22.587	4
80	MP4B	Z	39.122	4
81	MP4B	Mx	-.022	4
82	MP4C	X	45.224	4
83	MP4C	Z	78.329	4
84	MP4C	Mx	.029	4

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	0	1.5
2	M76A	Z	97.503	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	0	1
5	MP2A	Z	72.639	1
6	MP2A	Mx	.058	1
7	MP2A	X	0	5
8	MP2A	Z	72.639	5
9	MP2A	Mx	.058	5
10	MP2B	X	0	1
11	MP2B	Z	58.215	1
12	MP2B	Mx	-.014	1
13	MP2B	X	0	5
14	MP2B	Z	58.215	5
15	MP2B	Mx	-.014	5
16	MP2C	X	0	1
17	MP2C	Z	74.274	1
18	MP2C	Mx	-.042	1
19	MP2C	X	0	5
20	MP2C	Z	74.274	5
21	MP2C	Mx	-.042	5
22	MP2A	X	0	1
23	MP2A	Z	72.639	1
24	MP2A	Mx	-.033	1
25	MP2A	X	0	5
26	MP2A	Z	72.639	5
27	MP2A	Mx	-.033	5
28	MP2B	X	0	1
29	MP2B	Z	58.215	1
30	MP2B	Mx	-.041	1
31	MP2B	X	0	5
32	MP2B	Z	58.215	5
33	MP2B	Mx	-.041	5
34	MP2C	X	0	1
35	MP2C	Z	74.274	1
36	MP2C	Mx	.055	1
37	MP2C	X	0	5
38	MP2C	Z	74.274	5
39	MP2C	Mx	.055	5
40	MP2A	X	0	2.5
41	MP2A	Z	47.162	2.5
42	MP2A	Mx	-.008	2.5
43	MP2B	X	0	2.5
44	MP2B	Z	34.799	2.5
45	MP2B	Mx	.016	2.5
46	MP2C	X	0	2.5
47	MP2C	Z	48.564	2.5
48	MP2C	Mx	-.004	2.5
49	MP1A	X	0	2
50	MP1A	Z	113.463	2
51	MP1A	Mx	.019	2
52	MP1A	X	0	6
53	MP1A	Z	113.463	6
54	MP1A	Mx	.019	6
55	MP1B	X	0	2
56	MP1B	Z	72.108	2
57	MP1B	Mx	-.034	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1B	X	0	6
59	MP1B	Z	72.108	6
60	MP1B	Mx	-.034	6
61	MP1C	X	0	2
62	MP1C	Z	118.15	2
63	MP1C	Mx	.01	2
64	MP1C	X	0	6
65	MP1C	Z	118.15	6
66	MP1C	Mx	.01	6
67	MP1A	X	0	3.5
68	MP1A	Z	46.459	3.5
69	MP1A	Mx	-.008	3.5
70	MP1B	X	0	3.5
71	MP1B	Z	29.49	3.5
72	MP1B	Mx	.014	3.5
73	MP1C	X	0	3.5
74	MP1C	Z	48.382	3.5
75	MP1C	Mx	-.004	3.5
76	MP4A	X	0	4
77	MP4A	Z	114.536	4
78	MP4A	Mx	.02	4
79	MP4B	X	0	4
80	MP4B	Z	52.235	4
81	MP4B	Mx	-.025	4
82	MP4C	X	0	4
83	MP4C	Z	121.598	4
84	MP4C	Mx	.011	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-43.101	1.5
2	M76A	Z	74.654	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-31.896	1
5	MP2A	Z	55.246	1
6	MP2A	Mx	.052	1
7	MP2A	X	-31.896	5
8	MP2A	Z	55.246	5
9	MP2A	Mx	.052	5
10	MP2B	X	-33.531	1
11	MP2B	Z	58.077	1
12	MP2B	Mx	.013	1
13	MP2B	X	-33.531	5
14	MP2B	Z	58.077	5
15	MP2B	Mx	.013	5
16	MP2C	X	-36.319	1
17	MP2C	Z	62.907	1
18	MP2C	Mx	-.058	1
19	MP2C	X	-36.319	5
20	MP2C	Z	62.907	5
21	MP2C	Mx	-.058	5
22	MP2A	X	-31.896	1
23	MP2A	Z	55.246	1
24	MP2A	Mx	-.003	1
25	MP2A	X	-31.896	5
26	MP2A	Z	55.246	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	-.003	5
28	MP2B	X	-33.531	1
29	MP2B	Z	58.077	1
30	MP2B	Mx	-.056	1
31	MP2B	X	-33.531	5
32	MP2B	Z	58.077	5
33	MP2B	Mx	-.056	5
34	MP2C	X	-36.319	1
35	MP2C	Z	62.907	1
36	MP2C	Mx	.033	1
37	MP2C	X	-36.319	5
38	MP2C	Z	62.907	5
39	MP2C	Mx	.033	5
40	MP2A	X	-19.79	2.5
41	MP2A	Z	34.277	2.5
42	MP2A	Mx	-.015	2.5
43	MP2B	X	-21.191	2.5
44	MP2B	Z	36.704	2.5
45	MP2B	Mx	.014	2.5
46	MP2C	X	-23.581	2.5
47	MP2C	Z	40.844	2.5
48	MP2C	Mx	.008	2.5
49	MP1A	X	-44.049	2
50	MP1A	Z	76.295	2
51	MP1A	Mx	.034	2
52	MP1A	X	-44.049	6
53	MP1A	Z	76.295	6
54	MP1A	Mx	.034	6
55	MP1B	X	-48.736	2
56	MP1B	Z	84.414	2
57	MP1B	Mx	-.031	2
58	MP1B	X	-48.736	6
59	MP1B	Z	84.414	6
60	MP1B	Mx	-.031	6
61	MP1C	X	-56.731	2
62	MP1C	Z	98.262	2
63	MP1C	Mx	-.019	2
64	MP1C	X	-56.731	6
65	MP1C	Z	98.262	6
66	MP1C	Mx	-.019	6
67	MP1A	X	-18.026	3.5
68	MP1A	Z	31.221	3.5
69	MP1A	Mx	-.014	3.5
70	MP1B	X	-19.949	3.5
71	MP1B	Z	34.553	3.5
72	MP1B	Mx	.013	3.5
73	MP1C	X	-23.23	3.5
74	MP1C	Z	40.235	3.5
75	MP1C	Mx	.008	3.5
76	MP4A	X	-38.162	4
77	MP4A	Z	66.099	4
78	MP4A	Mx	.029	4
79	MP4B	X	-45.224	4
80	MP4B	Z	78.329	4
81	MP4B	Mx	-.029	4
82	MP4C	X	-57.268	4
83	MP4C	Z	99.191	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4C	Mx	-.02	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-66.676	1.5
2	M76A	Z	38.495	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-49	1
5	MP2A	Z	28.29	1
6	MP2A	Mx	.034	1
7	MP2A	X	-49	5
8	MP2A	Z	28.29	5
9	MP2A	Mx	.034	5
10	MP2B	X	-64.323	1
11	MP2B	Z	37.137	1
12	MP2B	Mx	.042	1
13	MP2B	X	-64.323	5
14	MP2B	Z	37.137	5
15	MP2B	Mx	.042	5
16	MP2C	X	-55.246	1
17	MP2C	Z	31.896	1
18	MP2C	Mx	-.052	1
19	MP2C	X	-55.246	5
20	MP2C	Z	31.896	5
21	MP2C	Mx	-.052	5
22	MP2A	X	-49	1
23	MP2A	Z	28.29	1
24	MP2A	Mx	.021	1
25	MP2A	X	-49	5
26	MP2A	Z	28.29	5
27	MP2A	Mx	.021	5
28	MP2B	X	-64.323	1
29	MP2B	Z	37.137	1
30	MP2B	Mx	-.055	1
31	MP2B	X	-64.323	5
32	MP2B	Z	37.137	5
33	MP2B	Mx	-.055	5
34	MP2C	X	-55.246	1
35	MP2C	Z	31.896	1
36	MP2C	Mx	.003	1
37	MP2C	X	-55.246	5
38	MP2C	Z	31.896	5
39	MP2C	Mx	.003	5
40	MP2A	X	-28.923	2.5
41	MP2A	Z	16.699	2.5
42	MP2A	Mx	-.016	2.5
43	MP2B	X	-42.057	2.5
44	MP2B	Z	24.282	2.5
45	MP2B	Mx	.004	2.5
46	MP2C	X	-34.277	2.5
47	MP2C	Z	19.79	2.5
48	MP2C	Mx	.015	2.5
49	MP1A	X	-58.388	2
50	MP1A	Z	33.71	2
51	MP1A	Mx	.033	2
52	MP1A	X	-58.388	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	33.71	6
54	MP1A	Mx	.033	6
55	MP1B	X	-102.321	2
56	MP1B	Z	59.075	2
57	MP1B	Mx	-.01	2
58	MP1B	X	-102.321	6
59	MP1B	Z	59.075	6
60	MP1B	Mx	-.01	6
61	MP1C	X	-76.295	2
62	MP1C	Z	44.049	2
63	MP1C	Mx	-.034	2
64	MP1C	X	-76.295	6
65	MP1C	Z	44.049	6
66	MP1C	Mx	-.034	6
67	MP1A	X	-23.873	3.5
68	MP1A	Z	13.783	3.5
69	MP1A	Mx	-.014	3.5
70	MP1B	X	-41.9	3.5
71	MP1B	Z	24.191	3.5
72	MP1B	Mx	.004	3.5
73	MP1C	X	-31.221	3.5
74	MP1C	Z	18.026	3.5
75	MP1C	Mx	.014	3.5
76	MP4A	X	-39.122	4
77	MP4A	Z	22.587	4
78	MP4A	Mx	.022	4
79	MP4B	X	-105.307	4
80	MP4B	Z	60.799	4
81	MP4B	Mx	-.011	4
82	MP4C	X	-66.099	4
83	MP4C	Z	38.162	4
84	MP4C	Mx	-.029	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-79.079	1.5
2	M76A	Z	0	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-58.215	1
5	MP2A	Z	0	1
6	MP2A	Mx	.014	1
7	MP2A	X	-58.215	5
8	MP2A	Z	0	5
9	MP2A	Mx	.014	5
10	MP2B	X	-72.639	1
11	MP2B	Z	0	1
12	MP2B	Mx	.058	1
13	MP2B	X	-72.639	5
14	MP2B	Z	0	5
15	MP2B	Mx	.058	5
16	MP2C	X	-56.58	1
17	MP2C	Z	0	1
18	MP2C	Mx	-.034	1
19	MP2C	X	-56.58	5
20	MP2C	Z	0	5
21	MP2C	Mx	-.034	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	-58.215	1
23	MP2A	Z	0	1
24	MP2A	Mx	.041	1
25	MP2A	X	-58.215	5
26	MP2A	Z	0	5
27	MP2A	Mx	.041	5
28	MP2B	X	-72.639	1
29	MP2B	Z	0	1
30	MP2B	Mx	-.033	1
31	MP2B	X	-72.639	5
32	MP2B	Z	0	5
33	MP2B	Mx	-.033	5
34	MP2C	X	-56.58	1
35	MP2C	Z	0	1
36	MP2C	Mx	-.021	1
37	MP2C	X	-56.58	5
38	MP2C	Z	0	5
39	MP2C	Mx	-.021	5
40	MP2A	X	-34.799	2.5
41	MP2A	Z	0	2.5
42	MP2A	Mx	-.016	2.5
43	MP2B	X	-47.162	2.5
44	MP2B	Z	0	2.5
45	MP2B	Mx	-.008	2.5
46	MP2C	X	-33.398	2.5
47	MP2C	Z	0	2.5
48	MP2C	Mx	.016	2.5
49	MP1A	X	-72.108	2
50	MP1A	Z	0	2
51	MP1A	Mx	.034	2
52	MP1A	X	-72.108	6
53	MP1A	Z	0	6
54	MP1A	Mx	.034	6
55	MP1B	X	-113.463	2
56	MP1B	Z	0	2
57	MP1B	Mx	.019	2
58	MP1B	X	-113.463	6
59	MP1B	Z	0	6
60	MP1B	Mx	.019	6
61	MP1C	X	-67.42	2
62	MP1C	Z	0	2
63	MP1C	Mx	-.033	2
64	MP1C	X	-67.42	6
65	MP1C	Z	0	6
66	MP1C	Mx	-.033	6
67	MP1A	X	-29.49	3.5
68	MP1A	Z	0	3.5
69	MP1A	Mx	-.014	3.5
70	MP1B	X	-46.459	3.5
71	MP1B	Z	0	3.5
72	MP1B	Mx	-.008	3.5
73	MP1C	X	-27.567	3.5
74	MP1C	Z	0	3.5
75	MP1C	Mx	.014	3.5
76	MP4A	X	-52.235	4
77	MP4A	Z	0	4
78	MP4A	Mx	.025	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP4B	X	-114.536	4
80	MP4B	Z	0	4
81	MP4B	Mx	.02	4
82	MP4C	X	-45.174	4
83	MP4C	Z	0	4
84	MP4C	Mx	-.022	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-78.27	1.5
2	M76A	Z	-45.189	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-58.077	1
5	MP2A	Z	-33.531	1
6	MP2A	Mx	-.013	1
7	MP2A	X	-58.077	5
8	MP2A	Z	-33.531	5
9	MP2A	Mx	-.013	5
10	MP2B	X	-55.246	1
11	MP2B	Z	-31.896	1
12	MP2B	Mx	.052	1
13	MP2B	X	-55.246	5
14	MP2B	Z	-31.896	5
15	MP2B	Mx	.052	5
16	MP2C	X	-50.416	1
17	MP2C	Z	-29.107	1
18	MP2C	Mx	-.014	1
19	MP2C	X	-50.416	5
20	MP2C	Z	-29.107	5
21	MP2C	Mx	-.014	5
22	MP2A	X	-58.077	1
23	MP2A	Z	-33.531	1
24	MP2A	Mx	.056	1
25	MP2A	X	-58.077	5
26	MP2A	Z	-33.531	5
27	MP2A	Mx	.056	5
28	MP2B	X	-55.246	1
29	MP2B	Z	-31.896	1
30	MP2B	Mx	-.003	1
31	MP2B	X	-55.246	5
32	MP2B	Z	-31.896	5
33	MP2B	Mx	-.003	5
34	MP2C	X	-50.416	1
35	MP2C	Z	-29.107	1
36	MP2C	Mx	-.041	1
37	MP2C	X	-50.416	5
38	MP2C	Z	-29.107	5
39	MP2C	Mx	-.041	5
40	MP2A	X	-36.704	2.5
41	MP2A	Z	-21.191	2.5
42	MP2A	Mx	-.014	2.5
43	MP2B	X	-34.277	2.5
44	MP2B	Z	-19.79	2.5
45	MP2B	Mx	-.015	2.5
46	MP2C	X	-30.137	2.5
47	MP2C	Z	-17.4	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2C	Mx	.016	2.5
49	MP1A	X	-84.414	2
50	MP1A	Z	-48.736	2
51	MP1A	Mx	.031	2
52	MP1A	X	-84.414	6
53	MP1A	Z	-48.736	6
54	MP1A	Mx	.031	6
55	MP1B	X	-76.295	2
56	MP1B	Z	-44.049	2
57	MP1B	Mx	.034	2
58	MP1B	X	-76.295	6
59	MP1B	Z	-44.049	6
60	MP1B	Mx	.034	6
61	MP1C	X	-62.447	2
62	MP1C	Z	-36.054	2
63	MP1C	Mx	-.034	2
64	MP1C	X	-62.447	6
65	MP1C	Z	-36.054	6
66	MP1C	Mx	-.034	6
67	MP1A	X	-34.553	3.5
68	MP1A	Z	-19.949	3.5
69	MP1A	Mx	-.013	3.5
70	MP1B	X	-31.221	3.5
71	MP1B	Z	-18.026	3.5
72	MP1B	Mx	-.014	3.5
73	MP1C	X	-25.539	3.5
74	MP1C	Z	-14.745	3.5
75	MP1C	Mx	.014	3.5
76	MP4A	X	-78.329	4
77	MP4A	Z	-45.224	4
78	MP4A	Mx	.029	4
79	MP4B	X	-66.099	4
80	MP4B	Z	-38.162	4
81	MP4B	Mx	.029	4
82	MP4C	X	-45.237	4
83	MP4C	Z	-26.117	4
84	MP4C	Mx	-.025	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-49.795	1.5
2	M76A	Z	-86.248	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-37.137	1
5	MP2A	Z	-64.323	1
6	MP2A	Mx	-.042	1
7	MP2A	X	-37.137	5
8	MP2A	Z	-64.323	5
9	MP2A	Mx	-.042	5
10	MP2B	X	-28.29	1
11	MP2B	Z	-49	1
12	MP2B	Mx	.034	1
13	MP2B	X	-28.29	5
14	MP2B	Z	-49	5
15	MP2B	Mx	.034	5
16	MP2C	X	-33.531	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	-58.077	1
18	MP2C	Mx	.013	1
19	MP2C	X	-33.531	5
20	MP2C	Z	-58.077	5
21	MP2C	Mx	.013	5
22	MP2A	X	-37.137	1
23	MP2A	Z	-64.323	1
24	MP2A	Mx	.055	1
25	MP2A	X	-37.137	5
26	MP2A	Z	-64.323	5
27	MP2A	Mx	.055	5
28	MP2B	X	-28.29	1
29	MP2B	Z	-49	1
30	MP2B	Mx	.021	1
31	MP2B	X	-28.29	5
32	MP2B	Z	-49	5
33	MP2B	Mx	.021	5
34	MP2C	X	-33.531	1
35	MP2C	Z	-58.077	1
36	MP2C	Mx	-.056	1
37	MP2C	X	-33.531	5
38	MP2C	Z	-58.077	5
39	MP2C	Mx	-.056	5
40	MP2A	X	-24.282	2.5
41	MP2A	Z	-42.057	2.5
42	MP2A	Mx	-.004	2.5
43	MP2B	X	-16.699	2.5
44	MP2B	Z	-28.923	2.5
45	MP2B	Mx	-.016	2.5
46	MP2C	X	-21.191	2.5
47	MP2C	Z	-36.704	2.5
48	MP2C	Mx	.014	2.5
49	MP1A	X	-59.075	2
50	MP1A	Z	-102.321	2
51	MP1A	Mx	.01	2
52	MP1A	X	-59.075	6
53	MP1A	Z	-102.321	6
54	MP1A	Mx	.01	6
55	MP1B	X	-33.71	2
56	MP1B	Z	-58.388	2
57	MP1B	Mx	.033	2
58	MP1B	X	-33.71	6
59	MP1B	Z	-58.388	6
60	MP1B	Mx	.033	6
61	MP1C	X	-48.736	2
62	MP1C	Z	-84.414	2
63	MP1C	Mx	-.031	2
64	MP1C	X	-48.736	6
65	MP1C	Z	-84.414	6
66	MP1C	Mx	-.031	6
67	MP1A	X	-24.191	3.5
68	MP1A	Z	-41.9	3.5
69	MP1A	Mx	-.004	3.5
70	MP1B	X	-13.783	3.5
71	MP1B	Z	-23.873	3.5
72	MP1B	Mx	-.014	3.5
73	MP1C	X	-19.949	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP1C	Z	-34.553	3.5
75	MP1C	Mx	.013	3.5
76	MP4A	X	-60.799	4
77	MP4A	Z	-105.307	4
78	MP4A	Mx	.011	4
79	MP4B	X	-22.587	4
80	MP4B	Z	-39.122	4
81	MP4B	Mx	.022	4
82	MP4C	X	-45.224	4
83	MP4C	Z	-78.329	4
84	MP4C	Mx	-.029	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	0	1.5
2	M76A	Z	-25.898	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	0	1
5	MP2A	Z	-30.216	1
6	MP2A	Mx	-.024	1
7	MP2A	X	0	5
8	MP2A	Z	-30.216	5
9	MP2A	Mx	-.024	5
10	MP2B	X	0	1
11	MP2B	Z	-24.414	1
12	MP2B	Mx	.006	1
13	MP2B	X	0	5
14	MP2B	Z	-24.414	5
15	MP2B	Mx	.006	5
16	MP2C	X	0	1
17	MP2C	Z	-30.873	1
18	MP2C	Mx	.018	1
19	MP2C	X	0	5
20	MP2C	Z	-30.873	5
21	MP2C	Mx	.018	5
22	MP2A	X	0	1
23	MP2A	Z	-30.216	1
24	MP2A	Mx	.014	1
25	MP2A	X	0	5
26	MP2A	Z	-30.216	5
27	MP2A	Mx	.014	5
28	MP2B	X	0	1
29	MP2B	Z	-24.414	1
30	MP2B	Mx	.017	1
31	MP2B	X	0	5
32	MP2B	Z	-24.414	5
33	MP2B	Mx	.017	5
34	MP2C	X	0	1
35	MP2C	Z	-30.873	1
36	MP2C	Mx	-.023	1
37	MP2C	X	0	5
38	MP2C	Z	-30.873	5
39	MP2C	Mx	-.023	5
40	MP2A	X	0	2.5
41	MP2A	Z	-12.471	2.5
42	MP2A	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2B	X	0	2.5
44	MP2B	Z	-9.456	2.5
45	MP2B	Mx	-.004	2.5
46	MP2C	X	0	2.5
47	MP2C	Z	-12.813	2.5
48	MP2C	Mx	.001	2.5
49	MP1A	X	0	2
50	MP1A	Z	-23.046	2
51	MP1A	Mx	-.004	2
52	MP1A	X	0	6
53	MP1A	Z	-23.046	6
54	MP1A	Mx	-.004	6
55	MP1B	X	0	2
56	MP1B	Z	-15.361	2
57	MP1B	Mx	.007	2
58	MP1B	X	0	6
59	MP1B	Z	-15.361	6
60	MP1B	Mx	.007	6
61	MP1C	X	0	2
62	MP1C	Z	-23.917	2
63	MP1C	Mx	-.002	2
64	MP1C	X	0	6
65	MP1C	Z	-23.917	6
66	MP1C	Mx	-.002	6
67	MP1A	X	0	3.5
68	MP1A	Z	-12.296	3.5
69	MP1A	Mx	.002	3.5
70	MP1B	X	0	3.5
71	MP1B	Z	-8.135	3.5
72	MP1B	Mx	-.004	3.5
73	MP1C	X	0	3.5
74	MP1C	Z	-12.768	3.5
75	MP1C	Mx	.001	3.5
76	MP4A	X	0	4
77	MP4A	Z	-28.626	4
78	MP4A	Mx	-.005	4
79	MP4B	X	0	4
80	MP4B	Z	-15.132	4
81	MP4B	Mx	.007	4
82	MP4C	X	0	4
83	MP4C	Z	-30.156	4
84	MP4C	Mx	-.003	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	11.588	1.5
2	M76A	Z	-20.071	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	13.329	1
5	MP2A	Z	-23.086	1
6	MP2A	Mx	-.022	1
7	MP2A	X	13.329	5
8	MP2A	Z	-23.086	5
9	MP2A	Mx	-.022	5
10	MP2B	X	13.986	1
11	MP2B	Z	-24.225	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	-.005	1
13	MP2B	X	13.986	5
14	MP2B	Z	-24.225	5
15	MP2B	Mx	-.005	5
16	MP2C	X	15.108	1
17	MP2C	Z	-26.167	1
18	MP2C	Mx	.024	1
19	MP2C	X	15.108	5
20	MP2C	Z	-26.167	5
21	MP2C	Mx	.024	5
22	MP2A	X	13.329	1
23	MP2A	Z	-23.086	1
24	MP2A	Mx	.001	1
25	MP2A	X	13.329	5
26	MP2A	Z	-23.086	5
27	MP2A	Mx	.001	5
28	MP2B	X	13.986	1
29	MP2B	Z	-24.225	1
30	MP2B	Mx	.023	1
31	MP2B	X	13.986	5
32	MP2B	Z	-24.225	5
33	MP2B	Mx	.023	5
34	MP2C	X	15.108	1
35	MP2C	Z	-26.167	1
36	MP2C	Mx	-.014	1
37	MP2C	X	15.108	5
38	MP2C	Z	-26.167	5
39	MP2C	Mx	-.014	5
40	MP2A	X	5.311	2.5
41	MP2A	Z	-9.199	2.5
42	MP2A	Mx	.004	2.5
43	MP2B	X	5.653	2.5
44	MP2B	Z	-9.791	2.5
45	MP2B	Mx	-.004	2.5
46	MP2C	X	6.236	2.5
47	MP2C	Z	-10.8	2.5
48	MP2C	Mx	-.002	2.5
49	MP1A	X	9.166	2
50	MP1A	Z	-15.877	2
51	MP1A	Mx	-.007	2
52	MP1A	X	9.166	6
53	MP1A	Z	-15.877	6
54	MP1A	Mx	-.007	6
55	MP1B	X	10.037	2
56	MP1B	Z	-17.385	2
57	MP1B	Mx	.006	2
58	MP1B	X	10.037	6
59	MP1B	Z	-17.385	6
60	MP1B	Mx	.006	6
61	MP1C	X	11.523	2
62	MP1C	Z	-19.959	2
63	MP1C	Mx	.004	2
64	MP1C	X	11.523	6
65	MP1C	Z	-19.959	6
66	MP1C	Mx	.004	6
67	MP1A	X	4.872	3.5
68	MP1A	Z	-8.438	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1A	Mx	.004	3.5
70	MP1B	X	5.344	3.5
71	MP1B	Z	-9.255	3.5
72	MP1B	Mx	-.003	3.5
73	MP1C	X	6.148	3.5
74	MP1C	Z	-10.649	3.5
75	MP1C	Mx	-.002	3.5
76	MP4A	X	10.175	4
77	MP4A	Z	-17.623	4
78	MP4A	Mx	-.008	4
79	MP4B	X	11.704	4
80	MP4B	Z	-20.272	4
81	MP4B	Mx	.008	4
82	MP4C	X	14.313	4
83	MP4C	Z	-24.791	4
84	MP4C	Mx	.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	18.149	1.5
2	M76A	Z	-10.478	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	20.574	1
5	MP2A	Z	-11.878	1
6	MP2A	Mx	-.014	1
7	MP2A	X	20.574	5
8	MP2A	Z	-11.878	5
9	MP2A	Mx	-.014	5
10	MP2B	X	26.737	1
11	MP2B	Z	-15.437	1
12	MP2B	Mx	-.018	1
13	MP2B	X	26.737	5
14	MP2B	Z	-15.437	5
15	MP2B	Mx	-.018	5
16	MP2C	X	23.086	1
17	MP2C	Z	-13.329	1
18	MP2C	Mx	.022	1
19	MP2C	X	23.086	5
20	MP2C	Z	-13.329	5
21	MP2C	Mx	.022	5
22	MP2A	X	20.574	1
23	MP2A	Z	-11.878	1
24	MP2A	Mx	-.009	1
25	MP2A	X	20.574	5
26	MP2A	Z	-11.878	5
27	MP2A	Mx	-.009	5
28	MP2B	X	26.737	1
29	MP2B	Z	-15.437	1
30	MP2B	Mx	.023	1
31	MP2B	X	26.737	5
32	MP2B	Z	-15.437	5
33	MP2B	Mx	.023	5
34	MP2C	X	23.086	1
35	MP2C	Z	-13.329	1
36	MP2C	Mx	-.001	1
37	MP2C	X	23.086	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2C	Z	-13.329	5
39	MP2C	Mx	-.001	5
40	MP2A	X	7.893	2.5
41	MP2A	Z	-4.557	2.5
42	MP2A	Mx	.004	2.5
43	MP2B	X	11.096	2.5
44	MP2B	Z	-6.406	2.5
45	MP2B	Mx	-.001	2.5
46	MP2C	X	9.199	2.5
47	MP2C	Z	-5.311	2.5
48	MP2C	Mx	-.004	2.5
49	MP1A	X	12.549	2
50	MP1A	Z	-7.245	2
51	MP1A	Mx	-.007	2
52	MP1A	X	12.549	6
53	MP1A	Z	-7.245	6
54	MP1A	Mx	-.007	6
55	MP1B	X	20.713	2
56	MP1B	Z	-11.959	2
57	MP1B	Mx	.002	2
58	MP1B	X	20.713	6
59	MP1B	Z	-11.959	6
60	MP1B	Mx	.002	6
61	MP1C	X	15.877	2
62	MP1C	Z	-9.166	2
63	MP1C	Mx	.007	2
64	MP1C	X	15.877	6
65	MP1C	Z	-9.166	6
66	MP1C	Mx	.007	6
67	MP1A	X	6.637	3.5
68	MP1A	Z	-3.832	3.5
69	MP1A	Mx	.004	3.5
70	MP1B	X	11.057	3.5
71	MP1B	Z	-6.384	3.5
72	MP1B	Mx	-.001	3.5
73	MP1C	X	8.438	3.5
74	MP1C	Z	-4.872	3.5
75	MP1C	Mx	-.004	3.5
76	MP4A	X	11.78	4
77	MP4A	Z	-6.801	4
78	MP4A	Mx	-.007	4
79	MP4B	X	26.115	4
80	MP4B	Z	-15.078	4
81	MP4B	Mx	.003	4
82	MP4C	X	17.623	4
83	MP4C	Z	-10.175	4
84	MP4C	Mx	.008	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	21.459	1.5
2	M76A	Z	0	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	24.414	1
5	MP2A	Z	0	1
6	MP2A	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	24.414	5
8	MP2A	Z	0	5
9	MP2A	Mx	-.006	5
10	MP2B	X	30.216	1
11	MP2B	Z	0	1
12	MP2B	Mx	-.024	1
13	MP2B	X	30.216	5
14	MP2B	Z	0	5
15	MP2B	Mx	-.024	5
16	MP2C	X	23.757	1
17	MP2C	Z	0	1
18	MP2C	Mx	.014	1
19	MP2C	X	23.757	5
20	MP2C	Z	0	5
21	MP2C	Mx	.014	5
22	MP2A	X	24.414	1
23	MP2A	Z	0	1
24	MP2A	Mx	-.017	1
25	MP2A	X	24.414	5
26	MP2A	Z	0	5
27	MP2A	Mx	-.017	5
28	MP2B	X	30.216	1
29	MP2B	Z	0	1
30	MP2B	Mx	.014	1
31	MP2B	X	30.216	5
32	MP2B	Z	0	5
33	MP2B	Mx	.014	5
34	MP2C	X	23.757	1
35	MP2C	Z	0	1
36	MP2C	Mx	.009	1
37	MP2C	X	23.757	5
38	MP2C	Z	0	5
39	MP2C	Mx	.009	5
40	MP2A	X	9.456	2.5
41	MP2A	Z	0	2.5
42	MP2A	Mx	.004	2.5
43	MP2B	X	12.471	2.5
44	MP2B	Z	0	2.5
45	MP2B	Mx	.002	2.5
46	MP2C	X	9.114	2.5
47	MP2C	Z	0	2.5
48	MP2C	Mx	-.004	2.5
49	MP1A	X	15.361	2
50	MP1A	Z	0	2
51	MP1A	Mx	-.007	2
52	MP1A	X	15.361	6
53	MP1A	Z	0	6
54	MP1A	Mx	-.007	6
55	MP1B	X	23.046	2
56	MP1B	Z	0	2
57	MP1B	Mx	-.004	2
58	MP1B	X	23.046	6
59	MP1B	Z	0	6
60	MP1B	Mx	-.004	6
61	MP1C	X	14.49	2
62	MP1C	Z	0	2
63	MP1C	Mx	.007	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1C	X	14.49	6
65	MP1C	Z	0	6
66	MP1C	Mx	.007	6
67	MP1A	X	8.135	3.5
68	MP1A	Z	0	3.5
69	MP1A	Mx	.004	3.5
70	MP1B	X	12.296	3.5
71	MP1B	Z	0	3.5
72	MP1B	Mx	.002	3.5
73	MP1C	X	7.663	3.5
74	MP1C	Z	0	3.5
75	MP1C	Mx	-.004	3.5
76	MP4A	X	15.132	4
77	MP4A	Z	0	4
78	MP4A	Mx	-.007	4
79	MP4B	X	28.626	4
80	MP4B	Z	0	4
81	MP4B	Mx	-.005	4
82	MP4C	X	13.603	4
83	MP4C	Z	0	4
84	MP4C	Mx	.007	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	20.942	1.5
2	M76A	Z	12.091	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	24.225	1
5	MP2A	Z	13.986	1
6	MP2A	Mx	.005	1
7	MP2A	X	24.225	5
8	MP2A	Z	13.986	5
9	MP2A	Mx	.005	5
10	MP2B	X	23.086	1
11	MP2B	Z	13.329	1
12	MP2B	Mx	-.022	1
13	MP2B	X	23.086	5
14	MP2B	Z	13.329	5
15	MP2B	Mx	-.022	5
16	MP2C	X	21.143	1
17	MP2C	Z	12.207	1
18	MP2C	Mx	.006	1
19	MP2C	X	21.143	5
20	MP2C	Z	12.207	5
21	MP2C	Mx	.006	5
22	MP2A	X	24.225	1
23	MP2A	Z	13.986	1
24	MP2A	Mx	-.023	1
25	MP2A	X	24.225	5
26	MP2A	Z	13.986	5
27	MP2A	Mx	-.023	5
28	MP2B	X	23.086	1
29	MP2B	Z	13.329	1
30	MP2B	Mx	.001	1
31	MP2B	X	23.086	5
32	MP2B	Z	13.329	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2B	Mx	.001	5
34	MP2C	X	21.143	1
35	MP2C	Z	12.207	1
36	MP2C	Mx	.017	1
37	MP2C	X	21.143	5
38	MP2C	Z	12.207	5
39	MP2C	Mx	.017	5
40	MP2A	X	9.791	2.5
41	MP2A	Z	5.653	2.5
42	MP2A	Mx	.004	2.5
43	MP2B	X	9.199	2.5
44	MP2B	Z	5.311	2.5
45	MP2B	Mx	.004	2.5
46	MP2C	X	8.189	2.5
47	MP2C	Z	4.728	2.5
48	MP2C	Mx	-.004	2.5
49	MP1A	X	17.385	2
50	MP1A	Z	10.037	2
51	MP1A	Mx	-.006	2
52	MP1A	X	17.385	6
53	MP1A	Z	10.037	6
54	MP1A	Mx	-.006	6
55	MP1B	X	15.877	2
56	MP1B	Z	9.166	2
57	MP1B	Mx	-.007	2
58	MP1B	X	15.877	6
59	MP1B	Z	9.166	6
60	MP1B	Mx	-.007	6
61	MP1C	X	13.303	2
62	MP1C	Z	7.681	2
63	MP1C	Mx	.007	2
64	MP1C	X	13.303	6
65	MP1C	Z	7.681	6
66	MP1C	Mx	.007	6
67	MP1A	X	9.255	3.5
68	MP1A	Z	5.344	3.5
69	MP1A	Mx	.003	3.5
70	MP1B	X	8.438	3.5
71	MP1B	Z	4.872	3.5
72	MP1B	Mx	.004	3.5
73	MP1C	X	7.045	3.5
74	MP1C	Z	4.067	3.5
75	MP1C	Mx	-.004	3.5
76	MP4A	X	20.272	4
77	MP4A	Z	11.704	4
78	MP4A	Mx	-.008	4
79	MP4B	X	17.623	4
80	MP4B	Z	10.175	4
81	MP4B	Mx	-.008	4
82	MP4C	X	13.105	4
83	MP4C	Z	7.566	4
84	MP4C	Mx	.007	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	13.2	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	M76A	Z	22.864	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	15.437	1
5	MP2A	Z	26.737	1
6	MP2A	Mx	.018	1
7	MP2A	X	15.437	5
8	MP2A	Z	26.737	5
9	MP2A	Mx	.018	5
10	MP2B	X	11.878	1
11	MP2B	Z	20.574	1
12	MP2B	Mx	-.014	1
13	MP2B	X	11.878	5
14	MP2B	Z	20.574	5
15	MP2B	Mx	-.014	5
16	MP2C	X	13.986	1
17	MP2C	Z	24.225	1
18	MP2C	Mx	-.005	1
19	MP2C	X	13.986	5
20	MP2C	Z	24.225	5
21	MP2C	Mx	-.005	5
22	MP2A	X	15.437	1
23	MP2A	Z	26.737	1
24	MP2A	Mx	-.023	1
25	MP2A	X	15.437	5
26	MP2A	Z	26.737	5
27	MP2A	Mx	-.023	5
28	MP2B	X	11.878	1
29	MP2B	Z	20.574	1
30	MP2B	Mx	-.009	1
31	MP2B	X	11.878	5
32	MP2B	Z	20.574	5
33	MP2B	Mx	-.009	5
34	MP2C	X	13.986	1
35	MP2C	Z	24.225	1
36	MP2C	Mx	.023	1
37	MP2C	X	13.986	5
38	MP2C	Z	24.225	5
39	MP2C	Mx	.023	5
40	MP2A	X	6.406	2.5
41	MP2A	Z	11.096	2.5
42	MP2A	Mx	.001	2.5
43	MP2B	X	4.557	2.5
44	MP2B	Z	7.893	2.5
45	MP2B	Mx	.004	2.5
46	MP2C	X	5.653	2.5
47	MP2C	Z	9.791	2.5
48	MP2C	Mx	-.004	2.5
49	MP1A	X	11.959	2
50	MP1A	Z	20.713	2
51	MP1A	Mx	-.002	2
52	MP1A	X	11.959	6
53	MP1A	Z	20.713	6
54	MP1A	Mx	-.002	6
55	MP1B	X	7.245	2
56	MP1B	Z	12.549	2
57	MP1B	Mx	-.007	2
58	MP1B	X	7.245	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1B	Z	12.549	6
60	MP1B	Mx	-.007	6
61	MP1C	X	10.037	2
62	MP1C	Z	17.385	2
63	MP1C	Mx	.006	2
64	MP1C	X	10.037	6
65	MP1C	Z	17.385	6
66	MP1C	Mx	.006	6
67	MP1A	X	6.384	3.5
68	MP1A	Z	11.057	3.5
69	MP1A	Mx	.001	3.5
70	MP1B	X	3.832	3.5
71	MP1B	Z	6.637	3.5
72	MP1B	Mx	.004	3.5
73	MP1C	X	5.344	3.5
74	MP1C	Z	9.255	3.5
75	MP1C	Mx	-.003	3.5
76	MP4A	X	15.078	4
77	MP4A	Z	26.115	4
78	MP4A	Mx	-.003	4
79	MP4B	X	6.801	4
80	MP4B	Z	11.78	4
81	MP4B	Mx	-.007	4
82	MP4C	X	11.704	4
83	MP4C	Z	20.272	4
84	MP4C	Mx	.008	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	0	1.5
2	M76A	Z	25.898	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	0	1
5	MP2A	Z	30.216	1
6	MP2A	Mx	.024	1
7	MP2A	X	0	5
8	MP2A	Z	30.216	5
9	MP2A	Mx	.024	5
10	MP2B	X	0	1
11	MP2B	Z	24.414	1
12	MP2B	Mx	-.006	1
13	MP2B	X	0	5
14	MP2B	Z	24.414	5
15	MP2B	Mx	-.006	5
16	MP2C	X	0	1
17	MP2C	Z	30.873	1
18	MP2C	Mx	-.018	1
19	MP2C	X	0	5
20	MP2C	Z	30.873	5
21	MP2C	Mx	-.018	5
22	MP2A	X	0	1
23	MP2A	Z	30.216	1
24	MP2A	Mx	-.014	1
25	MP2A	X	0	5
26	MP2A	Z	30.216	5
27	MP2A	Mx	-.014	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2B	X	0	1
29	MP2B	Z	24.414	1
30	MP2B	Mx	-.017	1
31	MP2B	X	0	5
32	MP2B	Z	24.414	5
33	MP2B	Mx	-.017	5
34	MP2C	X	0	1
35	MP2C	Z	30.873	1
36	MP2C	Mx	.023	1
37	MP2C	X	0	5
38	MP2C	Z	30.873	5
39	MP2C	Mx	.023	5
40	MP2A	X	0	2.5
41	MP2A	Z	12.471	2.5
42	MP2A	Mx	-.002	2.5
43	MP2B	X	0	2.5
44	MP2B	Z	9.456	2.5
45	MP2B	Mx	.004	2.5
46	MP2C	X	0	2.5
47	MP2C	Z	12.813	2.5
48	MP2C	Mx	-.001	2.5
49	MP1A	X	0	2
50	MP1A	Z	23.046	2
51	MP1A	Mx	.004	2
52	MP1A	X	0	6
53	MP1A	Z	23.046	6
54	MP1A	Mx	.004	6
55	MP1B	X	0	2
56	MP1B	Z	15.361	2
57	MP1B	Mx	-.007	2
58	MP1B	X	0	6
59	MP1B	Z	15.361	6
60	MP1B	Mx	-.007	6
61	MP1C	X	0	2
62	MP1C	Z	23.917	2
63	MP1C	Mx	.002	2
64	MP1C	X	0	6
65	MP1C	Z	23.917	6
66	MP1C	Mx	.002	6
67	MP1A	X	0	3.5
68	MP1A	Z	12.296	3.5
69	MP1A	Mx	-.002	3.5
70	MP1B	X	0	3.5
71	MP1B	Z	8.135	3.5
72	MP1B	Mx	.004	3.5
73	MP1C	X	0	3.5
74	MP1C	Z	12.768	3.5
75	MP1C	Mx	-.001	3.5
76	MP4A	X	0	4
77	MP4A	Z	28.626	4
78	MP4A	Mx	.005	4
79	MP4B	X	0	4
80	MP4B	Z	15.132	4
81	MP4B	Mx	-.007	4
82	MP4C	X	0	4
83	MP4C	Z	30.156	4
84	MP4C	Mx	.003	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-11.588	1.5
2	M76A	Z	20.071	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-13.329	1
5	MP2A	Z	23.086	1
6	MP2A	Mx	.022	1
7	MP2A	X	-13.329	5
8	MP2A	Z	23.086	5
9	MP2A	Mx	.022	5
10	MP2B	X	-13.986	1
11	MP2B	Z	24.225	1
12	MP2B	Mx	.005	1
13	MP2B	X	-13.986	5
14	MP2B	Z	24.225	5
15	MP2B	Mx	.005	5
16	MP2C	X	-15.108	1
17	MP2C	Z	26.167	1
18	MP2C	Mx	-.024	1
19	MP2C	X	-15.108	5
20	MP2C	Z	26.167	5
21	MP2C	Mx	-.024	5
22	MP2A	X	-13.329	1
23	MP2A	Z	23.086	1
24	MP2A	Mx	-.001	1
25	MP2A	X	-13.329	5
26	MP2A	Z	23.086	5
27	MP2A	Mx	-.001	5
28	MP2B	X	-13.986	1
29	MP2B	Z	24.225	1
30	MP2B	Mx	-.023	1
31	MP2B	X	-13.986	5
32	MP2B	Z	24.225	5
33	MP2B	Mx	-.023	5
34	MP2C	X	-15.108	1
35	MP2C	Z	26.167	1
36	MP2C	Mx	.014	1
37	MP2C	X	-15.108	5
38	MP2C	Z	26.167	5
39	MP2C	Mx	.014	5
40	MP2A	X	-5.311	2.5
41	MP2A	Z	9.199	2.5
42	MP2A	Mx	-.004	2.5
43	MP2B	X	-5.653	2.5
44	MP2B	Z	9.791	2.5
45	MP2B	Mx	.004	2.5
46	MP2C	X	-6.236	2.5
47	MP2C	Z	10.8	2.5
48	MP2C	Mx	.002	2.5
49	MP1A	X	-9.166	2
50	MP1A	Z	15.877	2
51	MP1A	Mx	.007	2
52	MP1A	X	-9.166	6
53	MP1A	Z	15.877	6
54	MP1A	Mx	.007	6
55	MP1B	X	-10.037	2
56	MP1B	Z	17.385	2
57	MP1B	Mx	-.006	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1B	X	-10.037	6
59	MP1B	Z	17.385	6
60	MP1B	Mx	-.006	6
61	MP1C	X	-11.523	2
62	MP1C	Z	19.959	2
63	MP1C	Mx	-.004	2
64	MP1C	X	-11.523	6
65	MP1C	Z	19.959	6
66	MP1C	Mx	-.004	6
67	MP1A	X	-4.872	3.5
68	MP1A	Z	8.438	3.5
69	MP1A	Mx	-.004	3.5
70	MP1B	X	-5.344	3.5
71	MP1B	Z	9.255	3.5
72	MP1B	Mx	.003	3.5
73	MP1C	X	-6.148	3.5
74	MP1C	Z	10.649	3.5
75	MP1C	Mx	.002	3.5
76	MP4A	X	-10.175	4
77	MP4A	Z	17.623	4
78	MP4A	Mx	.008	4
79	MP4B	X	-11.704	4
80	MP4B	Z	20.272	4
81	MP4B	Mx	-.008	4
82	MP4C	X	-14.313	4
83	MP4C	Z	24.791	4
84	MP4C	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-18.149	1.5
2	M76A	Z	10.478	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-20.574	1
5	MP2A	Z	11.878	1
6	MP2A	Mx	.014	1
7	MP2A	X	-20.574	5
8	MP2A	Z	11.878	5
9	MP2A	Mx	.014	5
10	MP2B	X	-26.737	1
11	MP2B	Z	15.437	1
12	MP2B	Mx	.018	1
13	MP2B	X	-26.737	5
14	MP2B	Z	15.437	5
15	MP2B	Mx	.018	5
16	MP2C	X	-23.086	1
17	MP2C	Z	13.329	1
18	MP2C	Mx	-.022	1
19	MP2C	X	-23.086	5
20	MP2C	Z	13.329	5
21	MP2C	Mx	-.022	5
22	MP2A	X	-20.574	1
23	MP2A	Z	11.878	1
24	MP2A	Mx	.009	1
25	MP2A	X	-20.574	5
26	MP2A	Z	11.878	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	.009	5
28	MP2B	X	-26.737	1
29	MP2B	Z	15.437	1
30	MP2B	Mx	-.023	1
31	MP2B	X	-26.737	5
32	MP2B	Z	15.437	5
33	MP2B	Mx	-.023	5
34	MP2C	X	-23.086	1
35	MP2C	Z	13.329	1
36	MP2C	Mx	.001	1
37	MP2C	X	-23.086	5
38	MP2C	Z	13.329	5
39	MP2C	Mx	.001	5
40	MP2A	X	-7.893	2.5
41	MP2A	Z	4.557	2.5
42	MP2A	Mx	-.004	2.5
43	MP2B	X	-11.096	2.5
44	MP2B	Z	6.406	2.5
45	MP2B	Mx	.001	2.5
46	MP2C	X	-9.199	2.5
47	MP2C	Z	5.311	2.5
48	MP2C	Mx	.004	2.5
49	MP1A	X	-12.549	2
50	MP1A	Z	7.245	2
51	MP1A	Mx	.007	2
52	MP1A	X	-12.549	6
53	MP1A	Z	7.245	6
54	MP1A	Mx	.007	6
55	MP1B	X	-20.713	2
56	MP1B	Z	11.959	2
57	MP1B	Mx	-.002	2
58	MP1B	X	-20.713	6
59	MP1B	Z	11.959	6
60	MP1B	Mx	-.002	6
61	MP1C	X	-15.877	2
62	MP1C	Z	9.166	2
63	MP1C	Mx	-.007	2
64	MP1C	X	-15.877	6
65	MP1C	Z	9.166	6
66	MP1C	Mx	-.007	6
67	MP1A	X	-6.637	3.5
68	MP1A	Z	3.832	3.5
69	MP1A	Mx	-.004	3.5
70	MP1B	X	-11.057	3.5
71	MP1B	Z	6.384	3.5
72	MP1B	Mx	.001	3.5
73	MP1C	X	-8.438	3.5
74	MP1C	Z	4.872	3.5
75	MP1C	Mx	.004	3.5
76	MP4A	X	-11.78	4
77	MP4A	Z	6.801	4
78	MP4A	Mx	.007	4
79	MP4B	X	-26.115	4
80	MP4B	Z	15.078	4
81	MP4B	Mx	-.003	4
82	MP4C	X	-17.623	4
83	MP4C	Z	10.175	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4C	Mx	-.008	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-21.459	1.5
2	M76A	Z	0	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-24.414	1
5	MP2A	Z	0	1
6	MP2A	Mx	.006	1
7	MP2A	X	-24.414	5
8	MP2A	Z	0	5
9	MP2A	Mx	.006	5
10	MP2B	X	-30.216	1
11	MP2B	Z	0	1
12	MP2B	Mx	.024	1
13	MP2B	X	-30.216	5
14	MP2B	Z	0	5
15	MP2B	Mx	.024	5
16	MP2C	X	-23.757	1
17	MP2C	Z	0	1
18	MP2C	Mx	-.014	1
19	MP2C	X	-23.757	5
20	MP2C	Z	0	5
21	MP2C	Mx	-.014	5
22	MP2A	X	-24.414	1
23	MP2A	Z	0	1
24	MP2A	Mx	.017	1
25	MP2A	X	-24.414	5
26	MP2A	Z	0	5
27	MP2A	Mx	.017	5
28	MP2B	X	-30.216	1
29	MP2B	Z	0	1
30	MP2B	Mx	-.014	1
31	MP2B	X	-30.216	5
32	MP2B	Z	0	5
33	MP2B	Mx	-.014	5
34	MP2C	X	-23.757	1
35	MP2C	Z	0	1
36	MP2C	Mx	-.009	1
37	MP2C	X	-23.757	5
38	MP2C	Z	0	5
39	MP2C	Mx	-.009	5
40	MP2A	X	-9.456	2.5
41	MP2A	Z	0	2.5
42	MP2A	Mx	-.004	2.5
43	MP2B	X	-12.471	2.5
44	MP2B	Z	0	2.5
45	MP2B	Mx	-.002	2.5
46	MP2C	X	-9.114	2.5
47	MP2C	Z	0	2.5
48	MP2C	Mx	.004	2.5
49	MP1A	X	-15.361	2
50	MP1A	Z	0	2
51	MP1A	Mx	.007	2
52	MP1A	X	-15.361	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	0	6
54	MP1A	Mx	.007	6
55	MP1B	X	-23.046	2
56	MP1B	Z	0	2
57	MP1B	Mx	.004	2
58	MP1B	X	-23.046	6
59	MP1B	Z	0	6
60	MP1B	Mx	.004	6
61	MP1C	X	-14.49	2
62	MP1C	Z	0	2
63	MP1C	Mx	-.007	2
64	MP1C	X	-14.49	6
65	MP1C	Z	0	6
66	MP1C	Mx	-.007	6
67	MP1A	X	-8.135	3.5
68	MP1A	Z	0	3.5
69	MP1A	Mx	-.004	3.5
70	MP1B	X	-12.296	3.5
71	MP1B	Z	0	3.5
72	MP1B	Mx	-.002	3.5
73	MP1C	X	-7.663	3.5
74	MP1C	Z	0	3.5
75	MP1C	Mx	.004	3.5
76	MP4A	X	-15.132	4
77	MP4A	Z	0	4
78	MP4A	Mx	.007	4
79	MP4B	X	-28.626	4
80	MP4B	Z	0	4
81	MP4B	Mx	.005	4
82	MP4C	X	-13.603	4
83	MP4C	Z	0	4
84	MP4C	Mx	-.007	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-20.942	1.5
2	M76A	Z	-12.091	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-24.225	1
5	MP2A	Z	-13.986	1
6	MP2A	Mx	-.005	1
7	MP2A	X	-24.225	5
8	MP2A	Z	-13.986	5
9	MP2A	Mx	-.005	5
10	MP2B	X	-23.086	1
11	MP2B	Z	-13.329	1
12	MP2B	Mx	.022	1
13	MP2B	X	-23.086	5
14	MP2B	Z	-13.329	5
15	MP2B	Mx	.022	5
16	MP2C	X	-21.143	1
17	MP2C	Z	-12.207	1
18	MP2C	Mx	-.006	1
19	MP2C	X	-21.143	5
20	MP2C	Z	-12.207	5
21	MP2C	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	-24.225	1
23	MP2A	Z	-13.986	1
24	MP2A	Mx	.023	1
25	MP2A	X	-24.225	5
26	MP2A	Z	-13.986	5
27	MP2A	Mx	.023	5
28	MP2B	X	-23.086	1
29	MP2B	Z	-13.329	1
30	MP2B	Mx	-.001	1
31	MP2B	X	-23.086	5
32	MP2B	Z	-13.329	5
33	MP2B	Mx	-.001	5
34	MP2C	X	-21.143	1
35	MP2C	Z	-12.207	1
36	MP2C	Mx	-.017	1
37	MP2C	X	-21.143	5
38	MP2C	Z	-12.207	5
39	MP2C	Mx	-.017	5
40	MP2A	X	-9.791	2.5
41	MP2A	Z	-5.653	2.5
42	MP2A	Mx	-.004	2.5
43	MP2B	X	-9.199	2.5
44	MP2B	Z	-5.311	2.5
45	MP2B	Mx	-.004	2.5
46	MP2C	X	-8.189	2.5
47	MP2C	Z	-4.728	2.5
48	MP2C	Mx	.004	2.5
49	MP1A	X	-17.385	2
50	MP1A	Z	-10.037	2
51	MP1A	Mx	.006	2
52	MP1A	X	-17.385	6
53	MP1A	Z	-10.037	6
54	MP1A	Mx	.006	6
55	MP1B	X	-15.877	2
56	MP1B	Z	-9.166	2
57	MP1B	Mx	.007	2
58	MP1B	X	-15.877	6
59	MP1B	Z	-9.166	6
60	MP1B	Mx	.007	6
61	MP1C	X	-13.303	2
62	MP1C	Z	-7.681	2
63	MP1C	Mx	-.007	2
64	MP1C	X	-13.303	6
65	MP1C	Z	-7.681	6
66	MP1C	Mx	-.007	6
67	MP1A	X	-9.255	3.5
68	MP1A	Z	-5.344	3.5
69	MP1A	Mx	-.003	3.5
70	MP1B	X	-8.438	3.5
71	MP1B	Z	-4.872	3.5
72	MP1B	Mx	-.004	3.5
73	MP1C	X	-7.045	3.5
74	MP1C	Z	-4.067	3.5
75	MP1C	Mx	.004	3.5
76	MP4A	X	-20.272	4
77	MP4A	Z	-11.704	4
78	MP4A	Mx	.008	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP4B	X	-17.623	4
80	MP4B	Z	-10.175	4
81	MP4B	Mx	.008	4
82	MP4C	X	-13.105	4
83	MP4C	Z	-7.566	4
84	MP4C	Mx	-.007	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-13.2	1.5
2	M76A	Z	-22.864	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-15.437	1
5	MP2A	Z	-26.737	1
6	MP2A	Mx	-.018	1
7	MP2A	X	-15.437	5
8	MP2A	Z	-26.737	5
9	MP2A	Mx	-.018	5
10	MP2B	X	-11.878	1
11	MP2B	Z	-20.574	1
12	MP2B	Mx	.014	1
13	MP2B	X	-11.878	5
14	MP2B	Z	-20.574	5
15	MP2B	Mx	.014	5
16	MP2C	X	-13.986	1
17	MP2C	Z	-24.225	1
18	MP2C	Mx	.005	1
19	MP2C	X	-13.986	5
20	MP2C	Z	-24.225	5
21	MP2C	Mx	.005	5
22	MP2A	X	-15.437	1
23	MP2A	Z	-26.737	1
24	MP2A	Mx	.023	1
25	MP2A	X	-15.437	5
26	MP2A	Z	-26.737	5
27	MP2A	Mx	.023	5
28	MP2B	X	-11.878	1
29	MP2B	Z	-20.574	1
30	MP2B	Mx	.009	1
31	MP2B	X	-11.878	5
32	MP2B	Z	-20.574	5
33	MP2B	Mx	.009	5
34	MP2C	X	-13.986	1
35	MP2C	Z	-24.225	1
36	MP2C	Mx	-.023	1
37	MP2C	X	-13.986	5
38	MP2C	Z	-24.225	5
39	MP2C	Mx	-.023	5
40	MP2A	X	-6.406	2.5
41	MP2A	Z	-11.096	2.5
42	MP2A	Mx	-.001	2.5
43	MP2B	X	-4.557	2.5
44	MP2B	Z	-7.893	2.5
45	MP2B	Mx	-.004	2.5
46	MP2C	X	-5.653	2.5
47	MP2C	Z	-9.791	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2C	Mx	.004	2.5
49	MP1A	X	-11.959	2
50	MP1A	Z	-20.713	2
51	MP1A	Mx	.002	2
52	MP1A	X	-11.959	6
53	MP1A	Z	-20.713	6
54	MP1A	Mx	.002	6
55	MP1B	X	-7.245	2
56	MP1B	Z	-12.549	2
57	MP1B	Mx	.007	2
58	MP1B	X	-7.245	6
59	MP1B	Z	-12.549	6
60	MP1B	Mx	.007	6
61	MP1C	X	-10.037	2
62	MP1C	Z	-17.385	2
63	MP1C	Mx	-.006	2
64	MP1C	X	-10.037	6
65	MP1C	Z	-17.385	6
66	MP1C	Mx	-.006	6
67	MP1A	X	-6.384	3.5
68	MP1A	Z	-11.057	3.5
69	MP1A	Mx	-.001	3.5
70	MP1B	X	-3.832	3.5
71	MP1B	Z	-6.637	3.5
72	MP1B	Mx	-.004	3.5
73	MP1C	X	-5.344	3.5
74	MP1C	Z	-9.255	3.5
75	MP1C	Mx	.003	3.5
76	MP4A	X	-15.078	4
77	MP4A	Z	-26.115	4
78	MP4A	Mx	.003	4
79	MP4B	X	-6.801	4
80	MP4B	Z	-11.78	4
81	MP4B	Mx	.007	4
82	MP4C	X	-11.704	4
83	MP4C	Z	-20.272	4
84	MP4C	Mx	-.008	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	0	1.5
2	M76A	Z	-6.41	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	0	1
5	MP2A	Z	-4.776	1
6	MP2A	Mx	-.004	1
7	MP2A	X	0	5
8	MP2A	Z	-4.776	5
9	MP2A	Mx	-.004	5
10	MP2B	X	0	1
11	MP2B	Z	-3.827	1
12	MP2B	Mx	.000925	1
13	MP2B	X	0	5
14	MP2B	Z	-3.827	5
15	MP2B	Mx	.000925	5
16	MP2C	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	-4.883	1
18	MP2C	Mx	.003	1
19	MP2C	X	0	5
20	MP2C	Z	-4.883	5
21	MP2C	Mx	.003	5
22	MP2A	X	0	1
23	MP2A	Z	-4.776	1
24	MP2A	Mx	.002	1
25	MP2A	X	0	5
26	MP2A	Z	-4.776	5
27	MP2A	Mx	.002	5
28	MP2B	X	0	1
29	MP2B	Z	-3.827	1
30	MP2B	Mx	.003	1
31	MP2B	X	0	5
32	MP2B	Z	-3.827	5
33	MP2B	Mx	.003	5
34	MP2C	X	0	1
35	MP2C	Z	-4.883	1
36	MP2C	Mx	-.004	1
37	MP2C	X	0	5
38	MP2C	Z	-4.883	5
39	MP2C	Mx	-.004	5
40	MP2A	X	0	2.5
41	MP2A	Z	-3.101	2.5
42	MP2A	Mx	.00053	2.5
43	MP2B	X	0	2.5
44	MP2B	Z	-2.288	2.5
45	MP2B	Mx	-.001	2.5
46	MP2C	X	0	2.5
47	MP2C	Z	-3.193	2.5
48	MP2C	Mx	.000277	2.5
49	MP1A	X	0	2
50	MP1A	Z	-7.46	2
51	MP1A	Mx	-.001	2
52	MP1A	X	0	6
53	MP1A	Z	-7.46	6
54	MP1A	Mx	-.001	6
55	MP1B	X	0	2
56	MP1B	Z	-4.741	2
57	MP1B	Mx	.002	2
58	MP1B	X	0	6
59	MP1B	Z	-4.741	6
60	MP1B	Mx	.002	6
61	MP1C	X	0	2
62	MP1C	Z	-7.768	2
63	MP1C	Mx	-.000674	2
64	MP1C	X	0	6
65	MP1C	Z	-7.768	6
66	MP1C	Mx	-.000674	6
67	MP1A	X	0	3.5
68	MP1A	Z	-3.055	3.5
69	MP1A	Mx	.000522	3.5
70	MP1B	X	0	3.5
71	MP1B	Z	-1.939	3.5
72	MP1B	Mx	-.000911	3.5
73	MP1C	X	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP1C	Z	-3.181	3.5
75	MP1C	Mx	.000276	3.5
76	MP4A	X	0	4
77	MP4A	Z	-7.53	4
78	MP4A	Mx	-.001	4
79	MP4B	X	0	4
80	MP4B	Z	-3.434	4
81	MP4B	Mx	.002	4
82	MP4C	X	0	4
83	MP4C	Z	-7.995	4
84	MP4C	Mx	-.000694	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	2.834	1.5
2	M76A	Z	-4.908	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	2.097	1
5	MP2A	Z	-3.632	1
6	MP2A	Mx	-.003	1
7	MP2A	X	2.097	5
8	MP2A	Z	-3.632	5
9	MP2A	Mx	-.003	5
10	MP2B	X	2.205	1
11	MP2B	Z	-3.818	1
12	MP2B	Mx	-.000835	1
13	MP2B	X	2.205	5
14	MP2B	Z	-3.818	5
15	MP2B	Mx	-.000835	5
16	MP2C	X	2.388	1
17	MP2C	Z	-4.136	1
18	MP2C	Mx	.004	1
19	MP2C	X	2.388	5
20	MP2C	Z	-4.136	5
21	MP2C	Mx	.004	5
22	MP2A	X	2.097	1
23	MP2A	Z	-3.632	1
24	MP2A	Mx	.000191	1
25	MP2A	X	2.097	5
26	MP2A	Z	-3.632	5
27	MP2A	Mx	.000191	5
28	MP2B	X	2.205	1
29	MP2B	Z	-3.818	1
30	MP2B	Mx	.004	1
31	MP2B	X	2.205	5
32	MP2B	Z	-3.818	5
33	MP2B	Mx	.004	5
34	MP2C	X	2.388	1
35	MP2C	Z	-4.136	1
36	MP2C	Mx	-.002	1
37	MP2C	X	2.388	5
38	MP2C	Z	-4.136	5
39	MP2C	Mx	-.002	5
40	MP2A	X	1.301	2.5
41	MP2A	Z	-2.254	2.5
42	MP2A	Mx	.000997	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2B	X	1.393	2.5
44	MP2B	Z	-2.413	2.5
45	MP2B	Mx	-.000896	2.5
46	MP2C	X	1.55	2.5
47	MP2C	Z	-2.685	2.5
48	MP2C	Mx	-.00053	2.5
49	MP1A	X	2.896	2
50	MP1A	Z	-5.016	2
51	MP1A	Mx	-.002	2
52	MP1A	X	2.896	6
53	MP1A	Z	-5.016	6
54	MP1A	Mx	-.002	6
55	MP1B	X	3.204	2
56	MP1B	Z	-5.55	2
57	MP1B	Mx	.002	2
58	MP1B	X	3.204	6
59	MP1B	Z	-5.55	6
60	MP1B	Mx	.002	6
61	MP1C	X	3.73	2
62	MP1C	Z	-6.46	2
63	MP1C	Mx	.001	2
64	MP1C	X	3.73	6
65	MP1C	Z	-6.46	6
66	MP1C	Mx	.001	6
67	MP1A	X	1.185	3.5
68	MP1A	Z	-2.053	3.5
69	MP1A	Mx	.000908	3.5
70	MP1B	X	1.312	3.5
71	MP1B	Z	-2.272	3.5
72	MP1B	Mx	-.000843	3.5
73	MP1C	X	1.527	3.5
74	MP1C	Z	-2.645	3.5
75	MP1C	Mx	-.000522	3.5
76	MP4A	X	2.509	4
77	MP4A	Z	-4.346	4
78	MP4A	Mx	-.002	4
79	MP4B	X	2.973	4
80	MP4B	Z	-5.15	4
81	MP4B	Mx	.002	4
82	MP4C	X	3.765	4
83	MP4C	Z	-6.521	4
84	MP4C	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	4.384	1.5
2	M76A	Z	-2.531	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	3.222	1
5	MP2A	Z	-1.86	1
6	MP2A	Mx	-.002	1
7	MP2A	X	3.222	5
8	MP2A	Z	-1.86	5
9	MP2A	Mx	-.002	5
10	MP2B	X	4.229	1
11	MP2B	Z	-2.442	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	-.003	1
13	MP2B	X	4.229	5
14	MP2B	Z	-2.442	5
15	MP2B	Mx	-.003	5
16	MP2C	X	3.632	1
17	MP2C	Z	-2.097	1
18	MP2C	Mx	.003	1
19	MP2C	X	3.632	5
20	MP2C	Z	-2.097	5
21	MP2C	Mx	.003	5
22	MP2A	X	3.222	1
23	MP2A	Z	-1.86	1
24	MP2A	Mx	-.001	1
25	MP2A	X	3.222	5
26	MP2A	Z	-1.86	5
27	MP2A	Mx	-.001	5
28	MP2B	X	4.229	1
29	MP2B	Z	-2.442	1
30	MP2B	Mx	.004	1
31	MP2B	X	4.229	5
32	MP2B	Z	-2.442	5
33	MP2B	Mx	.004	5
34	MP2C	X	3.632	1
35	MP2C	Z	-2.097	1
36	MP2C	Mx	-.000191	1
37	MP2C	X	3.632	5
38	MP2C	Z	-2.097	5
39	MP2C	Mx	-.000191	5
40	MP2A	X	1.902	2.5
41	MP2A	Z	-1.098	2.5
42	MP2A	Mx	.001	2.5
43	MP2B	X	2.765	2.5
44	MP2B	Z	-1.596	2.5
45	MP2B	Mx	-.000277	2.5
46	MP2C	X	2.254	2.5
47	MP2C	Z	-1.301	2.5
48	MP2C	Mx	-.000997	2.5
49	MP1A	X	3.839	2
50	MP1A	Z	-2.216	2
51	MP1A	Mx	-.002	2
52	MP1A	X	3.839	6
53	MP1A	Z	-2.216	6
54	MP1A	Mx	-.002	6
55	MP1B	X	6.727	2
56	MP1B	Z	-3.884	2
57	MP1B	Mx	.000674	2
58	MP1B	X	6.727	6
59	MP1B	Z	-3.884	6
60	MP1B	Mx	.000674	6
61	MP1C	X	5.016	2
62	MP1C	Z	-2.896	2
63	MP1C	Mx	.002	2
64	MP1C	X	5.016	6
65	MP1C	Z	-2.896	6
66	MP1C	Mx	.002	6
67	MP1A	X	1.57	3.5
68	MP1A	Z	-.906	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1A	Mx	.000893	3.5
70	MP1B	X	2.755	3.5
71	MP1B	Z	-1.59	3.5
72	MP1B	Mx	-.000276	3.5
73	MP1C	X	2.053	3.5
74	MP1C	Z	-1.185	3.5
75	MP1C	Mx	-.000908	3.5
76	MP4A	X	2.572	4
77	MP4A	Z	-1.485	4
78	MP4A	Mx	-.001	4
79	MP4B	X	6.924	4
80	MP4B	Z	-3.997	4
81	MP4B	Mx	.000694	4
82	MP4C	X	4.346	4
83	MP4C	Z	-2.509	4
84	MP4C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	5.199	1.5
2	M76A	Z	0	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	3.827	1
5	MP2A	Z	0	1
6	MP2A	Mx	-.000925	1
7	MP2A	X	3.827	5
8	MP2A	Z	0	5
9	MP2A	Mx	-.000925	5
10	MP2B	X	4.776	1
11	MP2B	Z	0	1
12	MP2B	Mx	-.004	1
13	MP2B	X	4.776	5
14	MP2B	Z	0	5
15	MP2B	Mx	-.004	5
16	MP2C	X	3.72	1
17	MP2C	Z	0	1
18	MP2C	Mx	.002	1
19	MP2C	X	3.72	5
20	MP2C	Z	0	5
21	MP2C	Mx	.002	5
22	MP2A	X	3.827	1
23	MP2A	Z	0	1
24	MP2A	Mx	-.003	1
25	MP2A	X	3.827	5
26	MP2A	Z	0	5
27	MP2A	Mx	-.003	5
28	MP2B	X	4.776	1
29	MP2B	Z	0	1
30	MP2B	Mx	.002	1
31	MP2B	X	4.776	5
32	MP2B	Z	0	5
33	MP2B	Mx	.002	5
34	MP2C	X	3.72	1
35	MP2C	Z	0	1
36	MP2C	Mx	.001	1
37	MP2C	X	3.72	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2C	Z	0	5
39	MP2C	Mx	.001	5
40	MP2A	X	2.288	2.5
41	MP2A	Z	0	2.5
42	MP2A	Mx	.001	2.5
43	MP2B	X	3.101	2.5
44	MP2B	Z	0	2.5
45	MP2B	Mx	.00053	2.5
46	MP2C	X	2.196	2.5
47	MP2C	Z	0	2.5
48	MP2C	Mx	-.001	2.5
49	MP1A	X	4.741	2
50	MP1A	Z	0	2
51	MP1A	Mx	-.002	2
52	MP1A	X	4.741	6
53	MP1A	Z	0	6
54	MP1A	Mx	-.002	6
55	MP1B	X	7.46	2
56	MP1B	Z	0	2
57	MP1B	Mx	-.001	2
58	MP1B	X	7.46	6
59	MP1B	Z	0	6
60	MP1B	Mx	-.001	6
61	MP1C	X	4.433	2
62	MP1C	Z	0	2
63	MP1C	Mx	.002	2
64	MP1C	X	4.433	6
65	MP1C	Z	0	6
66	MP1C	Mx	.002	6
67	MP1A	X	1.939	3.5
68	MP1A	Z	0	3.5
69	MP1A	Mx	.000911	3.5
70	MP1B	X	3.055	3.5
71	MP1B	Z	0	3.5
72	MP1B	Mx	.000522	3.5
73	MP1C	X	1.812	3.5
74	MP1C	Z	0	3.5
75	MP1C	Mx	-.000892	3.5
76	MP4A	X	3.434	4
77	MP4A	Z	0	4
78	MP4A	Mx	-.002	4
79	MP4B	X	7.53	4
80	MP4B	Z	0	4
81	MP4B	Mx	-.001	4
82	MP4C	X	2.97	4
83	MP4C	Z	0	4
84	MP4C	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	5.146	1.5
2	M76A	Z	2.971	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	3.818	1
5	MP2A	Z	2.205	1
6	MP2A	Mx	.000835	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	3.818	5
8	MP2A	Z	2.205	5
9	MP2A	Mx	.000835	5
10	MP2B	X	3.632	1
11	MP2B	Z	2.097	1
12	MP2B	Mx	-.003	1
13	MP2B	X	3.632	5
14	MP2B	Z	2.097	5
15	MP2B	Mx	-.003	5
16	MP2C	X	3.315	1
17	MP2C	Z	1.914	1
18	MP2C	Mx	.000926	1
19	MP2C	X	3.315	5
20	MP2C	Z	1.914	5
21	MP2C	Mx	.000926	5
22	MP2A	X	3.818	1
23	MP2A	Z	2.205	1
24	MP2A	Mx	-.004	1
25	MP2A	X	3.818	5
26	MP2A	Z	2.205	5
27	MP2A	Mx	-.004	5
28	MP2B	X	3.632	1
29	MP2B	Z	2.097	1
30	MP2B	Mx	.000191	1
31	MP2B	X	3.632	5
32	MP2B	Z	2.097	5
33	MP2B	Mx	.000191	5
34	MP2C	X	3.315	1
35	MP2C	Z	1.914	1
36	MP2C	Mx	.003	1
37	MP2C	X	3.315	5
38	MP2C	Z	1.914	5
39	MP2C	Mx	.003	5
40	MP2A	X	2.413	2.5
41	MP2A	Z	1.393	2.5
42	MP2A	Mx	.000896	2.5
43	MP2B	X	2.254	2.5
44	MP2B	Z	1.301	2.5
45	MP2B	Mx	.000997	2.5
46	MP2C	X	1.981	2.5
47	MP2C	Z	1.144	2.5
48	MP2C	Mx	-.001	2.5
49	MP1A	X	5.55	2
50	MP1A	Z	3.204	2
51	MP1A	Mx	-.002	2
52	MP1A	X	5.55	6
53	MP1A	Z	3.204	6
54	MP1A	Mx	-.002	6
55	MP1B	X	5.016	2
56	MP1B	Z	2.896	2
57	MP1B	Mx	-.002	2
58	MP1B	X	5.016	6
59	MP1B	Z	2.896	6
60	MP1B	Mx	-.002	6
61	MP1C	X	4.106	2
62	MP1C	Z	2.37	2
63	MP1C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1C	X	4.106	6
65	MP1C	Z	2.37	6
66	MP1C	Mx	.002	6
67	MP1A	X	2.272	3.5
68	MP1A	Z	1.312	3.5
69	MP1A	Mx	.000843	3.5
70	MP1B	X	2.053	3.5
71	MP1B	Z	1.185	3.5
72	MP1B	Mx	.000908	3.5
73	MP1C	X	1.679	3.5
74	MP1C	Z	.969	3.5
75	MP1C	Mx	-.000911	3.5
76	MP4A	X	5.15	4
77	MP4A	Z	2.973	4
78	MP4A	Mx	-.002	4
79	MP4B	X	4.346	4
80	MP4B	Z	2.509	4
81	MP4B	Mx	-.002	4
82	MP4C	X	2.974	4
83	MP4C	Z	1.717	4
84	MP4C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	3.274	1.5
2	M76A	Z	5.67	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	2.442	1
5	MP2A	Z	4.229	1
6	MP2A	Mx	.003	1
7	MP2A	X	2.442	5
8	MP2A	Z	4.229	5
9	MP2A	Mx	.003	5
10	MP2B	X	1.86	1
11	MP2B	Z	3.222	1
12	MP2B	Mx	-.002	1
13	MP2B	X	1.86	5
14	MP2B	Z	3.222	5
15	MP2B	Mx	-.002	5
16	MP2C	X	2.205	1
17	MP2C	Z	3.818	1
18	MP2C	Mx	-.000834	1
19	MP2C	X	2.205	5
20	MP2C	Z	3.818	5
21	MP2C	Mx	-.000834	5
22	MP2A	X	2.442	1
23	MP2A	Z	4.229	1
24	MP2A	Mx	-.004	1
25	MP2A	X	2.442	5
26	MP2A	Z	4.229	5
27	MP2A	Mx	-.004	5
28	MP2B	X	1.86	1
29	MP2B	Z	3.222	1
30	MP2B	Mx	-.001	1
31	MP2B	X	1.86	5
32	MP2B	Z	3.222	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2B	Mx	-.001	5
34	MP2C	X	2.205	1
35	MP2C	Z	3.818	1
36	MP2C	Mx	.004	1
37	MP2C	X	2.205	5
38	MP2C	Z	3.818	5
39	MP2C	Mx	.004	5
40	MP2A	X	1.596	2.5
41	MP2A	Z	2.765	2.5
42	MP2A	Mx	.000277	2.5
43	MP2B	X	1.098	2.5
44	MP2B	Z	1.902	2.5
45	MP2B	Mx	.001	2.5
46	MP2C	X	1.393	2.5
47	MP2C	Z	2.413	2.5
48	MP2C	Mx	-.000895	2.5
49	MP1A	X	3.884	2
50	MP1A	Z	6.727	2
51	MP1A	Mx	-.000674	2
52	MP1A	X	3.884	6
53	MP1A	Z	6.727	6
54	MP1A	Mx	-.000674	6
55	MP1B	X	2.216	2
56	MP1B	Z	3.839	2
57	MP1B	Mx	-.002	2
58	MP1B	X	2.216	6
59	MP1B	Z	3.839	6
60	MP1B	Mx	-.002	6
61	MP1C	X	3.204	2
62	MP1C	Z	5.55	2
63	MP1C	Mx	.002	2
64	MP1C	X	3.204	6
65	MP1C	Z	5.55	6
66	MP1C	Mx	.002	6
67	MP1A	X	1.59	3.5
68	MP1A	Z	2.755	3.5
69	MP1A	Mx	.000276	3.5
70	MP1B	X	.906	3.5
71	MP1B	Z	1.57	3.5
72	MP1B	Mx	.000893	3.5
73	MP1C	X	1.312	3.5
74	MP1C	Z	2.272	3.5
75	MP1C	Mx	-.000843	3.5
76	MP4A	X	3.997	4
77	MP4A	Z	6.924	4
78	MP4A	Mx	-.000694	4
79	MP4B	X	1.485	4
80	MP4B	Z	2.572	4
81	MP4B	Mx	-.001	4
82	MP4C	X	2.973	4
83	MP4C	Z	5.15	4
84	MP4C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	M76A	Z	6.41	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	0	1
5	MP2A	Z	4.776	1
6	MP2A	Mx	.004	1
7	MP2A	X	0	5
8	MP2A	Z	4.776	5
9	MP2A	Mx	.004	5
10	MP2B	X	0	1
11	MP2B	Z	3.827	1
12	MP2B	Mx	-.000925	1
13	MP2B	X	0	5
14	MP2B	Z	3.827	5
15	MP2B	Mx	-.000925	5
16	MP2C	X	0	1
17	MP2C	Z	4.883	1
18	MP2C	Mx	-.003	1
19	MP2C	X	0	5
20	MP2C	Z	4.883	5
21	MP2C	Mx	-.003	5
22	MP2A	X	0	1
23	MP2A	Z	4.776	1
24	MP2A	Mx	-.002	1
25	MP2A	X	0	5
26	MP2A	Z	4.776	5
27	MP2A	Mx	-.002	5
28	MP2B	X	0	1
29	MP2B	Z	3.827	1
30	MP2B	Mx	-.003	1
31	MP2B	X	0	5
32	MP2B	Z	3.827	5
33	MP2B	Mx	-.003	5
34	MP2C	X	0	1
35	MP2C	Z	4.883	1
36	MP2C	Mx	.004	1
37	MP2C	X	0	5
38	MP2C	Z	4.883	5
39	MP2C	Mx	.004	5
40	MP2A	X	0	2.5
41	MP2A	Z	3.101	2.5
42	MP2A	Mx	-.00053	2.5
43	MP2B	X	0	2.5
44	MP2B	Z	2.288	2.5
45	MP2B	Mx	.001	2.5
46	MP2C	X	0	2.5
47	MP2C	Z	3.193	2.5
48	MP2C	Mx	-.000277	2.5
49	MP1A	X	0	2
50	MP1A	Z	7.46	2
51	MP1A	Mx	.001	2
52	MP1A	X	0	6
53	MP1A	Z	7.46	6
54	MP1A	Mx	.001	6
55	MP1B	X	0	2
56	MP1B	Z	4.741	2
57	MP1B	Mx	-.002	2
58	MP1B	X	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1B	Z	4.741	6
60	MP1B	Mx	-.002	6
61	MP1C	X	0	2
62	MP1C	Z	7.768	2
63	MP1C	Mx	.000674	2
64	MP1C	X	0	6
65	MP1C	Z	7.768	6
66	MP1C	Mx	.000674	6
67	MP1A	X	0	3.5
68	MP1A	Z	3.055	3.5
69	MP1A	Mx	-.000522	3.5
70	MP1B	X	0	3.5
71	MP1B	Z	1.939	3.5
72	MP1B	Mx	.000911	3.5
73	MP1C	X	0	3.5
74	MP1C	Z	3.181	3.5
75	MP1C	Mx	-.000276	3.5
76	MP4A	X	0	4
77	MP4A	Z	7.53	4
78	MP4A	Mx	.001	4
79	MP4B	X	0	4
80	MP4B	Z	3.434	4
81	MP4B	Mx	-.002	4
82	MP4C	X	0	4
83	MP4C	Z	7.995	4
84	MP4C	Mx	.000694	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-2.834	1.5
2	M76A	Z	4.908	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-2.097	1
5	MP2A	Z	3.632	1
6	MP2A	Mx	.003	1
7	MP2A	X	-2.097	5
8	MP2A	Z	3.632	5
9	MP2A	Mx	.003	5
10	MP2B	X	-2.205	1
11	MP2B	Z	3.818	1
12	MP2B	Mx	.000835	1
13	MP2B	X	-2.205	5
14	MP2B	Z	3.818	5
15	MP2B	Mx	.000835	5
16	MP2C	X	-2.388	1
17	MP2C	Z	4.136	1
18	MP2C	Mx	-.004	1
19	MP2C	X	-2.388	5
20	MP2C	Z	4.136	5
21	MP2C	Mx	-.004	5
22	MP2A	X	-2.097	1
23	MP2A	Z	3.632	1
24	MP2A	Mx	-.000191	1
25	MP2A	X	-2.097	5
26	MP2A	Z	3.632	5
27	MP2A	Mx	-.000191	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2B	X	-2.205	1
29	MP2B	Z	3.818	1
30	MP2B	Mx	-.004	1
31	MP2B	X	-2.205	5
32	MP2B	Z	3.818	5
33	MP2B	Mx	-.004	5
34	MP2C	X	-2.388	1
35	MP2C	Z	4.136	1
36	MP2C	Mx	.002	1
37	MP2C	X	-2.388	5
38	MP2C	Z	4.136	5
39	MP2C	Mx	.002	5
40	MP2A	X	-1.301	2.5
41	MP2A	Z	2.254	2.5
42	MP2A	Mx	-.000997	2.5
43	MP2B	X	-1.393	2.5
44	MP2B	Z	2.413	2.5
45	MP2B	Mx	.000896	2.5
46	MP2C	X	-1.55	2.5
47	MP2C	Z	2.685	2.5
48	MP2C	Mx	.00053	2.5
49	MP1A	X	-2.896	2
50	MP1A	Z	5.016	2
51	MP1A	Mx	.002	2
52	MP1A	X	-2.896	6
53	MP1A	Z	5.016	6
54	MP1A	Mx	.002	6
55	MP1B	X	-3.204	2
56	MP1B	Z	5.55	2
57	MP1B	Mx	-.002	2
58	MP1B	X	-3.204	6
59	MP1B	Z	5.55	6
60	MP1B	Mx	-.002	6
61	MP1C	X	-3.73	2
62	MP1C	Z	6.46	2
63	MP1C	Mx	-.001	2
64	MP1C	X	-3.73	6
65	MP1C	Z	6.46	6
66	MP1C	Mx	-.001	6
67	MP1A	X	-1.185	3.5
68	MP1A	Z	2.053	3.5
69	MP1A	Mx	-.000908	3.5
70	MP1B	X	-1.312	3.5
71	MP1B	Z	2.272	3.5
72	MP1B	Mx	.000843	3.5
73	MP1C	X	-1.527	3.5
74	MP1C	Z	2.645	3.5
75	MP1C	Mx	.000522	3.5
76	MP4A	X	-2.509	4
77	MP4A	Z	4.346	4
78	MP4A	Mx	.002	4
79	MP4B	X	-2.973	4
80	MP4B	Z	5.15	4
81	MP4B	Mx	-.002	4
82	MP4C	X	-3.765	4
83	MP4C	Z	6.521	4
84	MP4C	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-4.384	1.5
2	M76A	Z	2.531	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-3.222	1
5	MP2A	Z	1.86	1
6	MP2A	Mx	.002	1
7	MP2A	X	-3.222	5
8	MP2A	Z	1.86	5
9	MP2A	Mx	.002	5
10	MP2B	X	-4.229	1
11	MP2B	Z	2.442	1
12	MP2B	Mx	.003	1
13	MP2B	X	-4.229	5
14	MP2B	Z	2.442	5
15	MP2B	Mx	.003	5
16	MP2C	X	-3.632	1
17	MP2C	Z	2.097	1
18	MP2C	Mx	-.003	1
19	MP2C	X	-3.632	5
20	MP2C	Z	2.097	5
21	MP2C	Mx	-.003	5
22	MP2A	X	-3.222	1
23	MP2A	Z	1.86	1
24	MP2A	Mx	.001	1
25	MP2A	X	-3.222	5
26	MP2A	Z	1.86	5
27	MP2A	Mx	.001	5
28	MP2B	X	-4.229	1
29	MP2B	Z	2.442	1
30	MP2B	Mx	-.004	1
31	MP2B	X	-4.229	5
32	MP2B	Z	2.442	5
33	MP2B	Mx	-.004	5
34	MP2C	X	-3.632	1
35	MP2C	Z	2.097	1
36	MP2C	Mx	.000191	1
37	MP2C	X	-3.632	5
38	MP2C	Z	2.097	5
39	MP2C	Mx	.000191	5
40	MP2A	X	-1.902	2.5
41	MP2A	Z	1.098	2.5
42	MP2A	Mx	-.001	2.5
43	MP2B	X	-2.765	2.5
44	MP2B	Z	1.596	2.5
45	MP2B	Mx	.000277	2.5
46	MP2C	X	-2.254	2.5
47	MP2C	Z	1.301	2.5
48	MP2C	Mx	.000997	2.5
49	MP1A	X	-3.839	2
50	MP1A	Z	2.216	2
51	MP1A	Mx	.002	2
52	MP1A	X	-3.839	6
53	MP1A	Z	2.216	6
54	MP1A	Mx	.002	6
55	MP1B	X	-6.727	2
56	MP1B	Z	3.884	2
57	MP1B	Mx	-.000674	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1B	X	-6.727	6
59	MP1B	Z	3.884	6
60	MP1B	Mx	-.000674	6
61	MP1C	X	-5.016	2
62	MP1C	Z	2.896	2
63	MP1C	Mx	-.002	2
64	MP1C	X	-5.016	6
65	MP1C	Z	2.896	6
66	MP1C	Mx	-.002	6
67	MP1A	X	-1.57	3.5
68	MP1A	Z	.906	3.5
69	MP1A	Mx	-.000893	3.5
70	MP1B	X	-2.755	3.5
71	MP1B	Z	1.59	3.5
72	MP1B	Mx	.000276	3.5
73	MP1C	X	-2.053	3.5
74	MP1C	Z	1.185	3.5
75	MP1C	Mx	.000908	3.5
76	MP4A	X	-2.572	4
77	MP4A	Z	1.485	4
78	MP4A	Mx	.001	4
79	MP4B	X	-6.924	4
80	MP4B	Z	3.997	4
81	MP4B	Mx	-.000694	4
82	MP4C	X	-4.346	4
83	MP4C	Z	2.509	4
84	MP4C	Mx	-.002	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-5.199	1.5
2	M76A	Z	0	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-3.827	1
5	MP2A	Z	0	1
6	MP2A	Mx	.000925	1
7	MP2A	X	-3.827	5
8	MP2A	Z	0	5
9	MP2A	Mx	.000925	5
10	MP2B	X	-4.776	1
11	MP2B	Z	0	1
12	MP2B	Mx	.004	1
13	MP2B	X	-4.776	5
14	MP2B	Z	0	5
15	MP2B	Mx	.004	5
16	MP2C	X	-3.72	1
17	MP2C	Z	0	1
18	MP2C	Mx	-.002	1
19	MP2C	X	-3.72	5
20	MP2C	Z	0	5
21	MP2C	Mx	-.002	5
22	MP2A	X	-3.827	1
23	MP2A	Z	0	1
24	MP2A	Mx	.003	1
25	MP2A	X	-3.827	5
26	MP2A	Z	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	.003	5
28	MP2B	X	-4.776	1
29	MP2B	Z	0	1
30	MP2B	Mx	-.002	1
31	MP2B	X	-4.776	5
32	MP2B	Z	0	5
33	MP2B	Mx	-.002	5
34	MP2C	X	-3.72	1
35	MP2C	Z	0	1
36	MP2C	Mx	-.001	1
37	MP2C	X	-3.72	5
38	MP2C	Z	0	5
39	MP2C	Mx	-.001	5
40	MP2A	X	-2.288	2.5
41	MP2A	Z	0	2.5
42	MP2A	Mx	-.001	2.5
43	MP2B	X	-3.101	2.5
44	MP2B	Z	0	2.5
45	MP2B	Mx	-.00053	2.5
46	MP2C	X	-2.196	2.5
47	MP2C	Z	0	2.5
48	MP2C	Mx	.001	2.5
49	MP1A	X	-4.741	2
50	MP1A	Z	0	2
51	MP1A	Mx	.002	2
52	MP1A	X	-4.741	6
53	MP1A	Z	0	6
54	MP1A	Mx	.002	6
55	MP1B	X	-7.46	2
56	MP1B	Z	0	2
57	MP1B	Mx	.001	2
58	MP1B	X	-7.46	6
59	MP1B	Z	0	6
60	MP1B	Mx	.001	6
61	MP1C	X	-4.433	2
62	MP1C	Z	0	2
63	MP1C	Mx	-.002	2
64	MP1C	X	-4.433	6
65	MP1C	Z	0	6
66	MP1C	Mx	-.002	6
67	MP1A	X	-1.939	3.5
68	MP1A	Z	0	3.5
69	MP1A	Mx	-.000911	3.5
70	MP1B	X	-3.055	3.5
71	MP1B	Z	0	3.5
72	MP1B	Mx	-.000522	3.5
73	MP1C	X	-1.812	3.5
74	MP1C	Z	0	3.5
75	MP1C	Mx	.000892	3.5
76	MP4A	X	-3.434	4
77	MP4A	Z	0	4
78	MP4A	Mx	.002	4
79	MP4B	X	-7.53	4
80	MP4B	Z	0	4
81	MP4B	Mx	.001	4
82	MP4C	X	-2.97	4
83	MP4C	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4C	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-5.146	1.5
2	M76A	Z	-2.971	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-3.818	1
5	MP2A	Z	-2.205	1
6	MP2A	Mx	-.000835	1
7	MP2A	X	-3.818	5
8	MP2A	Z	-2.205	5
9	MP2A	Mx	-.000835	5
10	MP2B	X	-3.632	1
11	MP2B	Z	-2.097	1
12	MP2B	Mx	.003	1
13	MP2B	X	-3.632	5
14	MP2B	Z	-2.097	5
15	MP2B	Mx	.003	5
16	MP2C	X	-3.315	1
17	MP2C	Z	-1.914	1
18	MP2C	Mx	-.000926	1
19	MP2C	X	-3.315	5
20	MP2C	Z	-1.914	5
21	MP2C	Mx	-.000926	5
22	MP2A	X	-3.818	1
23	MP2A	Z	-2.205	1
24	MP2A	Mx	.004	1
25	MP2A	X	-3.818	5
26	MP2A	Z	-2.205	5
27	MP2A	Mx	.004	5
28	MP2B	X	-3.632	1
29	MP2B	Z	-2.097	1
30	MP2B	Mx	-.000191	1
31	MP2B	X	-3.632	5
32	MP2B	Z	-2.097	5
33	MP2B	Mx	-.000191	5
34	MP2C	X	-3.315	1
35	MP2C	Z	-1.914	1
36	MP2C	Mx	-.003	1
37	MP2C	X	-3.315	5
38	MP2C	Z	-1.914	5
39	MP2C	Mx	-.003	5
40	MP2A	X	-2.413	2.5
41	MP2A	Z	-1.393	2.5
42	MP2A	Mx	-.000896	2.5
43	MP2B	X	-2.254	2.5
44	MP2B	Z	-1.301	2.5
45	MP2B	Mx	-.000997	2.5
46	MP2C	X	-1.981	2.5
47	MP2C	Z	-1.144	2.5
48	MP2C	Mx	.001	2.5
49	MP1A	X	-5.55	2
50	MP1A	Z	-3.204	2
51	MP1A	Mx	.002	2
52	MP1A	X	-5.55	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1A	Z	-3.204	6
54	MP1A	Mx	.002	6
55	MP1B	X	-5.016	2
56	MP1B	Z	-2.896	2
57	MP1B	Mx	.002	2
58	MP1B	X	-5.016	6
59	MP1B	Z	-2.896	6
60	MP1B	Mx	.002	6
61	MP1C	X	-4.106	2
62	MP1C	Z	-2.37	2
63	MP1C	Mx	-.002	2
64	MP1C	X	-4.106	6
65	MP1C	Z	-2.37	6
66	MP1C	Mx	-.002	6
67	MP1A	X	-2.272	3.5
68	MP1A	Z	-1.312	3.5
69	MP1A	Mx	-.000843	3.5
70	MP1B	X	-2.053	3.5
71	MP1B	Z	-1.185	3.5
72	MP1B	Mx	-.000908	3.5
73	MP1C	X	-1.679	3.5
74	MP1C	Z	-.969	3.5
75	MP1C	Mx	.000911	3.5
76	MP4A	X	-5.15	4
77	MP4A	Z	-2.973	4
78	MP4A	Mx	.002	4
79	MP4B	X	-4.346	4
80	MP4B	Z	-2.509	4
81	MP4B	Mx	.002	4
82	MP4C	X	-2.974	4
83	MP4C	Z	-1.717	4
84	MP4C	Mx	-.002	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	-3.274	1.5
2	M76A	Z	-5.67	1.5
3	M76A	Mx	0	1.5
4	MP2A	X	-2.442	1
5	MP2A	Z	-4.229	1
6	MP2A	Mx	-.003	1
7	MP2A	X	-2.442	5
8	MP2A	Z	-4.229	5
9	MP2A	Mx	-.003	5
10	MP2B	X	-1.86	1
11	MP2B	Z	-3.222	1
12	MP2B	Mx	.002	1
13	MP2B	X	-1.86	5
14	MP2B	Z	-3.222	5
15	MP2B	Mx	.002	5
16	MP2C	X	-2.205	1
17	MP2C	Z	-3.818	1
18	MP2C	Mx	.000834	1
19	MP2C	X	-2.205	5
20	MP2C	Z	-3.818	5
21	MP2C	Mx	.000834	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	-2.442	1
23	MP2A	Z	-4.229	1
24	MP2A	Mx	.004	1
25	MP2A	X	-2.442	5
26	MP2A	Z	-4.229	5
27	MP2A	Mx	.004	5
28	MP2B	X	-1.86	1
29	MP2B	Z	-3.222	1
30	MP2B	Mx	.001	1
31	MP2B	X	-1.86	5
32	MP2B	Z	-3.222	5
33	MP2B	Mx	.001	5
34	MP2C	X	-2.205	1
35	MP2C	Z	-3.818	1
36	MP2C	Mx	-.004	1
37	MP2C	X	-2.205	5
38	MP2C	Z	-3.818	5
39	MP2C	Mx	-.004	5
40	MP2A	X	-1.596	2.5
41	MP2A	Z	-2.765	2.5
42	MP2A	Mx	-.000277	2.5
43	MP2B	X	-1.098	2.5
44	MP2B	Z	-1.902	2.5
45	MP2B	Mx	-.001	2.5
46	MP2C	X	-1.393	2.5
47	MP2C	Z	-2.413	2.5
48	MP2C	Mx	.000895	2.5
49	MP1A	X	-3.884	2
50	MP1A	Z	-6.727	2
51	MP1A	Mx	.000674	2
52	MP1A	X	-3.884	6
53	MP1A	Z	-6.727	6
54	MP1A	Mx	.000674	6
55	MP1B	X	-2.216	2
56	MP1B	Z	-3.839	2
57	MP1B	Mx	.002	2
58	MP1B	X	-2.216	6
59	MP1B	Z	-3.839	6
60	MP1B	Mx	.002	6
61	MP1C	X	-3.204	2
62	MP1C	Z	-5.55	2
63	MP1C	Mx	-.002	2
64	MP1C	X	-3.204	6
65	MP1C	Z	-5.55	6
66	MP1C	Mx	-.002	6
67	MP1A	X	-1.59	3.5
68	MP1A	Z	-2.755	3.5
69	MP1A	Mx	-.000276	3.5
70	MP1B	X	-.906	3.5
71	MP1B	Z	-1.57	3.5
72	MP1B	Mx	-.000893	3.5
73	MP1C	X	-1.312	3.5
74	MP1C	Z	-2.272	3.5
75	MP1C	Mx	.000843	3.5
76	MP4A	X	-3.997	4
77	MP4A	Z	-6.924	4
78	MP4A	Mx	.000694	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP4B	X	-1.485	4
80	MP4B	Z	-2.572	4
81	MP4B	Mx	.001	4
82	MP4C	X	-2.973	4
83	MP4C	Z	-5.15	4
84	MP4C	Mx	-.002	4

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M63	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M62	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	Y	-1.365	1.5
2	M76A	My	0	1.5
3	M76A	Mz	0	1.5
4	MP2A	Y	-.981	1
5	MP2A	My	-.000237	1
6	MP2A	Mz	.000783	1
7	MP2A	Y	-.981	5
8	MP2A	My	-.000237	5
9	MP2A	Mz	.000783	5
10	MP2B	Y	-.981	1
11	MP2B	My	-.000783	1
12	MP2B	Mz	-.000237	1
13	MP2B	Y	-.981	5
14	MP2B	My	-.000783	5
15	MP2B	Mz	-.000237	5
16	MP2C	Y	-.981	1
17	MP2C	My	.000597	1
18	MP2C	Mz	-.000559	1
19	MP2C	Y	-.981	5
20	MP2C	My	.000597	5
21	MP2C	Mz	-.000559	5
22	MP2A	Y	-.981	1
23	MP2A	My	-.000685	1
24	MP2A	Mz	-.000447	1
25	MP2A	Y	-.981	5
26	MP2A	My	-.000685	5
27	MP2A	Mz	-.000447	5
28	MP2B	Y	-.981	1
29	MP2B	My	.000447	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mz	-.000685	1
31	MP2B	Y	-.981	5
32	MP2B	My	.000447	5
33	MP2B	Mz	-.000685	5
34	MP2C	Y	-.981	1
35	MP2C	My	.00037	1
36	MP2C	Mz	.000729	1
37	MP2C	Y	-.981	5
38	MP2C	My	.00037	5
39	MP2C	Mz	.000729	5
40	MP2A	Y	-3.601	2.5
41	MP2A	My	.002	2.5
42	MP2A	Mz	-.000616	2.5
43	MP2B	Y	-3.601	2.5
44	MP2B	My	.000616	2.5
45	MP2B	Mz	.002	2.5
46	MP2C	Y	-3.601	2.5
47	MP2C	My	-.002	2.5
48	MP2C	Mz	-.000313	2.5
49	MP1A	Y	-.363	2
50	MP1A	My	-.00017	2
51	MP1A	Mz	6.2e-5	2
52	MP1A	Y	-.363	6
53	MP1A	My	-.00017	6
54	MP1A	Mz	6.2e-5	6
55	MP1B	Y	-.363	2
56	MP1B	My	-6.2e-5	2
57	MP1B	Mz	-.00017	2
58	MP1B	Y	-.363	6
59	MP1B	My	-6.2e-5	6
60	MP1B	Mz	-.00017	6
61	MP1C	Y	-.363	2
62	MP1C	My	.000179	2
63	MP1C	Mz	3.1e-5	2
64	MP1C	Y	-.363	6
65	MP1C	My	.000179	6
66	MP1C	Mz	3.1e-5	6
67	MP1A	Y	-2.999	3.5
68	MP1A	My	.001	3.5
69	MP1A	Mz	-.000513	3.5
70	MP1B	Y	-2.999	3.5
71	MP1B	My	.000513	3.5
72	MP1B	Mz	.001	3.5
73	MP1C	Y	-2.999	3.5
74	MP1C	My	-.001	3.5
75	MP1C	Mz	-.00026	3.5
76	MP4A	Y	-3.716	4
77	MP4A	My	-.002	4
78	MP4A	Mz	.000636	4
79	MP4B	Y	-3.716	4
80	MP4B	My	-.000636	4
81	MP4B	Mz	-.002	4
82	MP4C	Y	-3.716	4
83	MP4C	My	.002	4
84	MP4C	Mz	.000323	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	Z	-3.413	1.5
2	M76A	Mx	0	1.5
3	MP2A	Z	-2.453	1
4	MP2A	Mx	-.002	1
5	MP2A	Z	-2.453	5
6	MP2A	Mx	-.002	5
7	MP2B	Z	-2.453	1
8	MP2B	Mx	.000593	1
9	MP2B	Z	-2.453	5
10	MP2B	Mx	.000593	5
11	MP2C	Z	-2.453	1
12	MP2C	Mx	.001	1
13	MP2C	Z	-2.453	5
14	MP2C	Mx	.001	5
15	MP2A	Z	-2.453	1
16	MP2A	Mx	.001	1
17	MP2A	Z	-2.453	5
18	MP2A	Mx	.001	5
19	MP2B	Z	-2.453	1
20	MP2B	Mx	.002	1
21	MP2B	Z	-2.453	5
22	MP2B	Mx	.002	5
23	MP2C	Z	-2.453	1
24	MP2C	Mx	-.002	1
25	MP2C	Z	-2.453	5
26	MP2C	Mx	-.002	5
27	MP2A	Z	-9.003	2.5
28	MP2A	Mx	.002	2.5
29	MP2B	Z	-9.003	2.5
30	MP2B	Mx	-.004	2.5
31	MP2C	Z	-9.003	2.5
32	MP2C	Mx	.000782	2.5
33	MP1A	Z	-.907	2
34	MP1A	Mx	-.000155	2
35	MP1A	Z	-.907	6
36	MP1A	Mx	-.000155	6
37	MP1B	Z	-.907	2
38	MP1B	Mx	.000426	2
39	MP1B	Z	-.907	6
40	MP1B	Mx	.000426	6
41	MP1C	Z	-.907	2
42	MP1C	Mx	-7.9e-5	2
43	MP1C	Z	-.907	6
44	MP1C	Mx	-7.9e-5	6
45	MP1A	Z	-7.499	3.5
46	MP1A	Mx	.001	3.5
47	MP1B	Z	-7.499	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	Z	-7.499	3.5
50	MP1C	Mx	.000651	3.5
51	MP4A	Z	-9.291	4
52	MP4A	Mx	-.002	4
53	MP4B	Z	-9.291	4
54	MP4B	Mx	.004	4
55	MP4C	Z	-9.291	4
56	MP4C	Mx	-.000807	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M76A	X	3.413	1.5
2	M76A	Mx	0	1.5
3	MP2A	X	2.453	1
4	MP2A	Mx	-.000593	1
5	MP2A	X	2.453	5
6	MP2A	Mx	-.000593	5
7	MP2B	X	2.453	1
8	MP2B	Mx	-.002	1
9	MP2B	X	2.453	5
10	MP2B	Mx	-.002	5
11	MP2C	X	2.453	1
12	MP2C	Mx	.001	1
13	MP2C	X	2.453	5
14	MP2C	Mx	.001	5
15	MP2A	X	2.453	1
16	MP2A	Mx	-.002	1
17	MP2A	X	2.453	5
18	MP2A	Mx	-.002	5
19	MP2B	X	2.453	1
20	MP2B	Mx	.001	1
21	MP2B	X	2.453	5
22	MP2B	Mx	.001	5
23	MP2C	X	2.453	1
24	MP2C	Mx	.000924	1
25	MP2C	X	2.453	5
26	MP2C	Mx	.000924	5
27	MP2A	X	9.003	2.5
28	MP2A	Mx	.004	2.5
29	MP2B	X	9.003	2.5
30	MP2B	Mx	.002	2.5
31	MP2C	X	9.003	2.5
32	MP2C	Mx	-.004	2.5
33	MP1A	X	.907	2
34	MP1A	Mx	-.000426	2
35	MP1A	X	.907	6
36	MP1A	Mx	-.000426	6
37	MP1B	X	.907	2
38	MP1B	Mx	-.000155	2
39	MP1B	X	.907	6
40	MP1B	Mx	-.000155	6
41	MP1C	X	.907	2
42	MP1C	Mx	.000446	2
43	MP1C	X	.907	6
44	MP1C	Mx	.000446	6
45	MP1A	X	7.499	3.5
46	MP1A	Mx	.004	3.5
47	MP1B	X	7.499	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	7.499	3.5
50	MP1C	Mx	-.004	3.5
51	MP4A	X	9.291	4
52	MP4A	Mx	-.004	4
53	MP4B	X	9.291	4
54	MP4B	Mx	-.002	4
55	MP4C	X	9.291	4
56	MP4C	Mx	.005	4

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.605	-9.605	0	%100
2	M2	Y	-9.605	-9.605	0	%100
3	M3	Y	-9.605	-9.605	0	%100
4	M5	Y	-8.698	-8.698	0	%100
5	M7	Y	-10.511	-10.511	0	%100
6	M50	Y	-10.511	-10.511	0	%100
7	MP1B	Y	-4.977	-4.977	0	%100
8	MP2B	Y	-4.977	-4.977	0	%100
9	MP3B	Y	-4.977	-4.977	0	%100
10	MP4B	Y	-4.977	-4.977	0	%100
11	F	Y	-10.511	-10.511	0	%100
12	MP1A	Y	-4.977	-4.977	0	%100
13	MP2A	Y	-4.977	-4.977	0	%100
14	MP3A	Y	-4.977	-4.977	0	%100
15	MP4A	Y	-4.977	-4.977	0	%100
16	M68	Y	-10.511	-10.511	0	%100
17	MP1C	Y	-4.977	-4.977	0	%100
18	MP2C	Y	-4.977	-4.977	0	%100
19	MP3C	Y	-4.977	-4.977	0	%100
20	MP4C	Y	-4.977	-4.977	0	%100
21	M76A	Y	-4.977	-4.977	0	%100
22	M77	Y	-8.698	-8.698	0	%100
23	M75	Y	-8.698	-8.698	0	%100
24	M76B	Y	-8.698	-8.698	0	%100
25	M77A	Y	-8.698	-8.698	0	%100
26	M75A	Y	-8.698	-8.698	0	%100
27	M76C	Y	-8.698	-8.698	0	%100
28	M77B	Y	-8.698	-8.698	0	%100
29	M75B	Y	-8.698	-8.698	0	%100
30	M76D	Y	-8.698	-8.698	0	%100
31	M80	Y	-8.698	-8.698	0	%100
32	M83	Y	-8.698	-8.698	0	%100
33	M88	Y	-8.698	-8.698	0	%100
34	M89	Y	-8.698	-8.698	0	%100
35	M90	Y	-8.698	-8.698	0	%100
36	M96	Y	-8.698	-8.698	0	%100
37	M97	Y	-8.698	-8.698	0	%100
38	M98	Y	-8.698	-8.698	0	%100
39	M114	Y	-10.511	-10.511	0	%100
40	M125	Y	-10.511	-10.511	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.719	-9.719	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-9.719	-9.719	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-15.823	-15.823	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-23.865	-23.865	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-7.911	-7.911	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,%]
13	MP1B	X	0	0	0	%100
14	MP1B	Z	-7.516	-7.516	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	-7.516	-7.516	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	-7.516	-7.516	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	-7.516	-7.516	0	%100
21	F	X	0	0	0	%100
22	F	Z	-31.645	-31.645	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	-7.516	-7.516	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-7.516	-7.516	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-7.516	-7.516	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-7.516	-7.516	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	-7.911	-7.911	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-7.516	-7.516	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-7.516	-7.516	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-7.516	-7.516	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-7.516	-7.516	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	-6.207	-6.207	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	-15.823	-15.823	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-3.961	-3.961	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	-3.896	-3.896	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-3.956	-3.956	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	-3.951	-3.951	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	-15.823	-15.823	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	-3.956	-3.956	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	-4.258	-4.258	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	-15.823	-15.823	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	-3.956	-3.956	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	-3.956	-3.956	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	-3.956	-3.956	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	-15.823	-15.823	0	%100
69	M90	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,%]
70	M90	Z	-3.956	-3.956	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	-3.956	-3.956	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	-3.956	-3.956	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	-15.823	-15.823	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	-5.949	-5.949	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	-5.984	-5.984	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.62	1.62	0	%100
2	M1	Z	-2.806	-2.806	0	%100
3	M2	X	6.479	6.479	0	%100
4	M2	Z	-11.223	-11.223	0	%100
5	M3	X	1.62	1.62	0	%100
6	M3	Z	-2.806	-2.806	0	%100
7	M5	X	5.934	5.934	0	%100
8	M5	Z	-10.277	-10.277	0	%100
9	M7	X	8.958	8.958	0	%100
10	M7	Z	-15.516	-15.516	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	3.758	3.758	0	%100
14	MP1B	Z	-6.509	-6.509	0	%100
15	MP2B	X	3.758	3.758	0	%100
16	MP2B	Z	-6.509	-6.509	0	%100
17	MP3B	X	3.758	3.758	0	%100
18	MP3B	Z	-6.509	-6.509	0	%100
19	MP4B	X	3.758	3.758	0	%100
20	MP4B	Z	-6.509	-6.509	0	%100
21	F	X	11.867	11.867	0	%100
22	F	Z	-20.554	-20.554	0	%100
23	MP1A	X	3.758	3.758	0	%100
24	MP1A	Z	-6.509	-6.509	0	%100
25	MP2A	X	3.758	3.758	0	%100
26	MP2A	Z	-6.509	-6.509	0	%100
27	MP3A	X	3.758	3.758	0	%100
28	MP3A	Z	-6.509	-6.509	0	%100
29	MP4A	X	3.758	3.758	0	%100
30	MP4A	Z	-6.509	-6.509	0	%100
31	M68	X	11.867	11.867	0	%100
32	M68	Z	-20.554	-20.554	0	%100
33	MP1C	X	3.758	3.758	0	%100
34	MP1C	Z	-6.509	-6.509	0	%100
35	MP2C	X	3.758	3.758	0	%100
36	MP2C	Z	-6.509	-6.509	0	%100
37	MP3C	X	3.758	3.758	0	%100
38	MP3C	Z	-6.509	-6.509	0	%100
39	MP4C	X	3.758	3.758	0	%100
40	MP4C	Z	-6.509	-6.509	0	%100
41	M76A	X	3.103	3.103	0	%100
42	M76A	Z	-5.375	-5.375	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,%]
43	M77	X	5.934	5.934	0	%100
44	M77	Z	-10.277	-10.277	0	%100
45	M75	X	5.936	5.936	0	%100
46	M75	Z	-10.282	-10.282	0	%100
47	M76B	X	.000149	.000149	0	%100
48	M76B	Z	-.000257	-.000257	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	5.931	5.931	0	%100
52	M75A	Z	-10.273	-10.273	0	%100
53	M76C	X	5.931	5.931	0	%100
54	M76C	Z	-10.273	-10.273	0	%100
55	M77B	X	5.934	5.934	0	%100
56	M77B	Z	-10.277	-10.277	0	%100
57	M75B	X	.004	.004	0	%100
58	M75B	Z	-.006	-.006	0	%100
59	M76D	X	5.942	5.942	0	%100
60	M76D	Z	-10.292	-10.292	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	5.934	5.934	0	%100
64	M83	Z	-10.277	-10.277	0	%100
65	M88	X	5.934	5.934	0	%100
66	M88	Z	-10.277	-10.277	0	%100
67	M89	X	5.934	5.934	0	%100
68	M89	Z	-10.277	-10.277	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	5.934	5.934	0	%100
74	M97	Z	-10.277	-10.277	0	%100
75	M98	X	5.934	5.934	0	%100
76	M98	Z	-10.277	-10.277	0	%100
77	M114	X	8.941	8.941	0	%100
78	M114	Z	-15.486	-15.486	0	%100
79	M125	X	8e-6	8e-6	0	%100
80	M125	Z	-1.5e-5	-1.5e-5	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	8.417	8.417	0	%100
2	M1	Z	-4.86	-4.86	0	%100
3	M2	X	8.417	8.417	0	%100
4	M2	Z	-4.86	-4.86	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	3.426	3.426	0	%100
8	M5	Z	-1.978	-1.978	0	%100
9	M7	X	5.182	5.182	0	%100
10	M7	Z	-2.992	-2.992	0	%100
11	M50	X	6.851	6.851	0	%100
12	M50	Z	-3.956	-3.956	0	%100
13	MP1B	X	6.509	6.509	0	%100
14	MP1B	Z	-3.758	-3.758	0	%100
15	MP2B	X	6.509	6.509	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,%]
16	MP2B	Z	-3.758	-3.758	0	%100
17	MP3B	X	6.509	6.509	0	%100
18	MP3B	Z	-3.758	-3.758	0	%100
19	MP4B	X	6.509	6.509	0	%100
20	MP4B	Z	-3.758	-3.758	0	%100
21	F	X	6.851	6.851	0	%100
22	F	Z	-3.956	-3.956	0	%100
23	MP1A	X	6.509	6.509	0	%100
24	MP1A	Z	-3.758	-3.758	0	%100
25	MP2A	X	6.509	6.509	0	%100
26	MP2A	Z	-3.758	-3.758	0	%100
27	MP3A	X	6.509	6.509	0	%100
28	MP3A	Z	-3.758	-3.758	0	%100
29	MP4A	X	6.509	6.509	0	%100
30	MP4A	Z	-3.758	-3.758	0	%100
31	M68	X	27.406	27.406	0	%100
32	M68	Z	-15.823	-15.823	0	%100
33	MP1C	X	6.509	6.509	0	%100
34	MP1C	Z	-3.758	-3.758	0	%100
35	MP2C	X	6.509	6.509	0	%100
36	MP2C	Z	-3.758	-3.758	0	%100
37	MP3C	X	6.509	6.509	0	%100
38	MP3C	Z	-3.758	-3.758	0	%100
39	MP4C	X	6.509	6.509	0	%100
40	MP4C	Z	-3.758	-3.758	0	%100
41	M76A	X	5.375	5.375	0	%100
42	M76A	Z	-3.103	-3.103	0	%100
43	M77	X	3.426	3.426	0	%100
44	M77	Z	-1.978	-1.978	0	%100
45	M75	X	13.703	13.703	0	%100
46	M75	Z	-7.911	-7.911	0	%100
47	M76B	X	3.477	3.477	0	%100
48	M76B	Z	-2.008	-2.008	0	%100
49	M77A	X	3.426	3.426	0	%100
50	M77A	Z	-1.978	-1.978	0	%100
51	M75A	X	13.703	13.703	0	%100
52	M75A	Z	-7.911	-7.911	0	%100
53	M76C	X	3.422	3.422	0	%100
54	M76C	Z	-1.976	-1.976	0	%100
55	M77B	X	13.703	13.703	0	%100
56	M77B	Z	-7.911	-7.911	0	%100
57	M75B	X	3.171	3.171	0	%100
58	M75B	Z	-1.831	-1.831	0	%100
59	M76D	X	3.441	3.441	0	%100
60	M76D	Z	-1.987	-1.987	0	%100
61	M80	X	3.426	3.426	0	%100
62	M80	Z	-1.978	-1.978	0	%100
63	M83	X	13.703	13.703	0	%100
64	M83	Z	-7.911	-7.911	0	%100
65	M88	X	13.703	13.703	0	%100
66	M88	Z	-7.911	-7.911	0	%100
67	M89	X	3.426	3.426	0	%100
68	M89	Z	-1.978	-1.978	0	%100
69	M90	X	3.426	3.426	0	%100
70	M90	Z	-1.978	-1.978	0	%100
71	M96	X	3.426	3.426	0	%100
72	M96	Z	-1.978	-1.978	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,%]
73	M97	X	13.703	13.703	0	%100
74	M97	Z	-7.911	-7.911	0	%100
75	M98	X	3.426	3.426	0	%100
76	M98	Z	-1.978	-1.978	0	%100
77	M114	X	20.668	20.668	0	%100
78	M114	Z	-11.933	-11.933	0	%100
79	M125	X	5.152	5.152	0	%100
80	M125	Z	-2.974	-2.974	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	12.959	12.959	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.24	3.24	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	3.24	3.24	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	1.7e-5	1.7e-5	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	23.734	23.734	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	7.516	7.516	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	7.516	7.516	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	7.516	7.516	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	7.516	7.516	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	7.516	7.516	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	7.516	7.516	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	7.516	7.516	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	7.516	7.516	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	23.734	23.734	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	7.516	7.516	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	7.516	7.516	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	7.516	7.516	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	7.516	7.516	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	6.207	6.207	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	11.862	11.862	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,%]
46	M75	Z	0	0	0	%100
47	M76B	X	11.926	11.926	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	11.867	11.867	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	11.872	11.872	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	2e-6	2e-6	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	11.867	11.867	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	11.565	11.565	0	%100
58	M75B	Z	0	0	0	%100
59	M76D	X	2.6e-5	2.6e-5	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	11.867	11.867	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	11.867	11.867	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	11.867	11.867	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	11.867	11.867	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	11.867	11.867	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	11.867	11.867	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	17.916	17.916	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	17.882	17.882	0	%100
80	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	8.417	8.417	0	%100
2	M1	Z	4.86	4.86	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	8.417	8.417	0	%100
6	M3	Z	4.86	4.86	0	%100
7	M5	X	3.426	3.426	0	%100
8	M5	Z	1.978	1.978	0	%100
9	M7	X	5.152	5.152	0	%100
10	M7	Z	2.974	2.974	0	%100
11	M50	X	27.406	27.406	0	%100
12	M50	Z	15.823	15.823	0	%100
13	MP1B	X	6.509	6.509	0	%100
14	MP1B	Z	3.758	3.758	0	%100
15	MP2B	X	6.509	6.509	0	%100
16	MP2B	Z	3.758	3.758	0	%100
17	MP3B	X	6.509	6.509	0	%100
18	MP3B	Z	3.758	3.758	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	MP4B	X	6.509	6.509	0	%100
20	MP4B	Z	3.758	3.758	0	%100
21	F	X	6.851	6.851	0	%100
22	F	Z	3.956	3.956	0	%100
23	MP1A	X	6.509	6.509	0	%100
24	MP1A	Z	3.758	3.758	0	%100
25	MP2A	X	6.509	6.509	0	%100
26	MP2A	Z	3.758	3.758	0	%100
27	MP3A	X	6.509	6.509	0	%100
28	MP3A	Z	3.758	3.758	0	%100
29	MP4A	X	6.509	6.509	0	%100
30	MP4A	Z	3.758	3.758	0	%100
31	M68	X	6.851	6.851	0	%100
32	M68	Z	3.956	3.956	0	%100
33	MP1C	X	6.509	6.509	0	%100
34	MP1C	Z	3.758	3.758	0	%100
35	MP2C	X	6.509	6.509	0	%100
36	MP2C	Z	3.758	3.758	0	%100
37	MP3C	X	6.509	6.509	0	%100
38	MP3C	Z	3.758	3.758	0	%100
39	MP4C	X	6.509	6.509	0	%100
40	MP4C	Z	3.758	3.758	0	%100
41	M76A	X	5.375	5.375	0	%100
42	M76A	Z	3.103	3.103	0	%100
43	M77	X	3.426	3.426	0	%100
44	M77	Z	1.978	1.978	0	%100
45	M75	X	3.421	3.421	0	%100
46	M75	Z	1.975	1.975	0	%100
47	M76B	X	13.703	13.703	0	%100
48	M76B	Z	7.911	7.911	0	%100
49	M77A	X	13.703	13.703	0	%100
50	M77A	Z	7.911	7.911	0	%100
51	M75A	X	3.43	3.43	0	%100
52	M75A	Z	1.98	1.98	0	%100
53	M76C	X	3.43	3.43	0	%100
54	M76C	Z	1.98	1.98	0	%100
55	M77B	X	3.426	3.426	0	%100
56	M77B	Z	1.978	1.978	0	%100
57	M75B	X	13.696	13.696	0	%100
58	M75B	Z	7.908	7.908	0	%100
59	M76D	X	3.411	3.411	0	%100
60	M76D	Z	1.969	1.969	0	%100
61	M80	X	13.703	13.703	0	%100
62	M80	Z	7.911	7.911	0	%100
63	M83	X	3.426	3.426	0	%100
64	M83	Z	1.978	1.978	0	%100
65	M88	X	3.426	3.426	0	%100
66	M88	Z	1.978	1.978	0	%100
67	M89	X	3.426	3.426	0	%100
68	M89	Z	1.978	1.978	0	%100
69	M90	X	13.703	13.703	0	%100
70	M90	Z	7.911	7.911	0	%100
71	M96	X	13.703	13.703	0	%100
72	M96	Z	7.911	7.911	0	%100
73	M97	X	3.426	3.426	0	%100
74	M97	Z	1.978	1.978	0	%100
75	M98	X	3.426	3.426	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,%]
76	M98	Z	1.978	1.978	0	%100
77	M114	X	5.182	5.182	0	%100
78	M114	Z	2.992	2.992	0	%100
79	M125	X	20.668	20.668	0	%100
80	M125	Z	11.933	11.933	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.62	1.62	0	%100
2	M1	Z	2.806	2.806	0	%100
3	M2	X	1.62	1.62	0	%100
4	M2	Z	2.806	2.806	0	%100
5	M3	X	6.479	6.479	0	%100
6	M3	Z	11.223	11.223	0	%100
7	M5	X	5.934	5.934	0	%100
8	M5	Z	10.277	10.277	0	%100
9	M7	X	8.941	8.941	0	%100
10	M7	Z	15.486	15.486	0	%100
11	M50	X	11.867	11.867	0	%100
12	M50	Z	20.554	20.554	0	%100
13	MP1B	X	3.758	3.758	0	%100
14	MP1B	Z	6.509	6.509	0	%100
15	MP2B	X	3.758	3.758	0	%100
16	MP2B	Z	6.509	6.509	0	%100
17	MP3B	X	3.758	3.758	0	%100
18	MP3B	Z	6.509	6.509	0	%100
19	MP4B	X	3.758	3.758	0	%100
20	MP4B	Z	6.509	6.509	0	%100
21	F	X	11.867	11.867	0	%100
22	F	Z	20.554	20.554	0	%100
23	MP1A	X	3.758	3.758	0	%100
24	MP1A	Z	6.509	6.509	0	%100
25	MP2A	X	3.758	3.758	0	%100
26	MP2A	Z	6.509	6.509	0	%100
27	MP3A	X	3.758	3.758	0	%100
28	MP3A	Z	6.509	6.509	0	%100
29	MP4A	X	3.758	3.758	0	%100
30	MP4A	Z	6.509	6.509	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	3.758	3.758	0	%100
34	MP1C	Z	6.509	6.509	0	%100
35	MP2C	X	3.758	3.758	0	%100
36	MP2C	Z	6.509	6.509	0	%100
37	MP3C	X	3.758	3.758	0	%100
38	MP3C	Z	6.509	6.509	0	%100
39	MP4C	X	3.758	3.758	0	%100
40	MP4C	Z	6.509	6.509	0	%100
41	M76A	X	3.103	3.103	0	%100
42	M76A	Z	5.375	5.375	0	%100
43	M77	X	5.934	5.934	0	%100
44	M77	Z	10.277	10.277	0	%100
45	M75	X	1e-6	1e-6	0	%100
46	M75	Z	2e-6	2e-6	0	%100
47	M76B	X	5.904	5.904	0	%100
48	M76B	Z	10.226	10.226	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,%]
49	M77A	X	5.934	5.934	0	%100
50	M77A	Z	10.277	10.277	0	%100
51	M75A	X	1e-6	1e-6	0	%100
52	M75A	Z	2e-6	2e-6	0	%100
53	M76C	X	5.936	5.936	0	%100
54	M76C	Z	10.281	10.281	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	6.081	6.081	0	%100
58	M75B	Z	10.532	10.532	0	%100
59	M76D	X	5.925	5.925	0	%100
60	M76D	Z	10.262	10.262	0	%100
61	M80	X	5.934	5.934	0	%100
62	M80	Z	10.277	10.277	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	5.934	5.934	0	%100
68	M89	Z	10.277	10.277	0	%100
69	M90	X	5.934	5.934	0	%100
70	M90	Z	10.277	10.277	0	%100
71	M96	X	5.934	5.934	0	%100
72	M96	Z	10.277	10.277	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	5.934	5.934	0	%100
76	M98	Z	10.277	10.277	0	%100
77	M114	X	8e-6	8e-6	0	%100
78	M114	Z	1.5e-5	1.5e-5	0	%100
79	M125	X	8.958	8.958	0	%100
80	M125	Z	15.516	15.516	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.719	9.719	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	9.719	9.719	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	15.823	15.823	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	23.865	23.865	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	7.911	7.911	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	7.516	7.516	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	7.516	7.516	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	7.516	7.516	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	7.516	7.516	0	%100
21	F	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,%]
22	F	Z	31.645	31.645	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	7.516	7.516	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	7.516	7.516	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	7.516	7.516	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	7.516	7.516	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	7.911	7.911	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	7.516	7.516	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	7.516	7.516	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	7.516	7.516	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	7.516	7.516	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	6.207	6.207	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	15.823	15.823	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	3.961	3.961	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	3.896	3.896	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	3.956	3.956	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	3.951	3.951	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	15.823	15.823	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	3.956	3.956	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	4.258	4.258	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	15.823	15.823	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	3.956	3.956	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	3.956	3.956	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	3.956	3.956	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	15.823	15.823	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	3.956	3.956	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	3.956	3.956	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	3.956	3.956	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	15.823	15.823	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	5.949	5.949	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,%]
79	M125	X	0	0	0	%100
80	M125	Z	5.984	5.984	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.62	-1.62	0	%100
2	M1	Z	2.806	2.806	0	%100
3	M2	X	-6.479	-6.479	0	%100
4	M2	Z	11.223	11.223	0	%100
5	M3	X	-1.62	-1.62	0	%100
6	M3	Z	2.806	2.806	0	%100
7	M5	X	-5.934	-5.934	0	%100
8	M5	Z	10.277	10.277	0	%100
9	M7	X	-8.958	-8.958	0	%100
10	M7	Z	15.516	15.516	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-3.758	-3.758	0	%100
14	MP1B	Z	6.509	6.509	0	%100
15	MP2B	X	-3.758	-3.758	0	%100
16	MP2B	Z	6.509	6.509	0	%100
17	MP3B	X	-3.758	-3.758	0	%100
18	MP3B	Z	6.509	6.509	0	%100
19	MP4B	X	-3.758	-3.758	0	%100
20	MP4B	Z	6.509	6.509	0	%100
21	F	X	-11.867	-11.867	0	%100
22	F	Z	20.554	20.554	0	%100
23	MP1A	X	-3.758	-3.758	0	%100
24	MP1A	Z	6.509	6.509	0	%100
25	MP2A	X	-3.758	-3.758	0	%100
26	MP2A	Z	6.509	6.509	0	%100
27	MP3A	X	-3.758	-3.758	0	%100
28	MP3A	Z	6.509	6.509	0	%100
29	MP4A	X	-3.758	-3.758	0	%100
30	MP4A	Z	6.509	6.509	0	%100
31	M68	X	-11.867	-11.867	0	%100
32	M68	Z	20.554	20.554	0	%100
33	MP1C	X	-3.758	-3.758	0	%100
34	MP1C	Z	6.509	6.509	0	%100
35	MP2C	X	-3.758	-3.758	0	%100
36	MP2C	Z	6.509	6.509	0	%100
37	MP3C	X	-3.758	-3.758	0	%100
38	MP3C	Z	6.509	6.509	0	%100
39	MP4C	X	-3.758	-3.758	0	%100
40	MP4C	Z	6.509	6.509	0	%100
41	M76A	X	-3.103	-3.103	0	%100
42	M76A	Z	5.375	5.375	0	%100
43	M77	X	-5.934	-5.934	0	%100
44	M77	Z	10.277	10.277	0	%100
45	M75	X	-5.936	-5.936	0	%100
46	M75	Z	10.282	10.282	0	%100
47	M76B	X	-.000149	-.000149	0	%100
48	M76B	Z	.000257	.000257	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-5.931	-5.931	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,%]
52	M75A	Z	10.273	10.273	0	%100
53	M76C	X	-5.931	-5.931	0	%100
54	M76C	Z	10.273	10.273	0	%100
55	M77B	X	-5.934	-5.934	0	%100
56	M77B	Z	10.277	10.277	0	%100
57	M75B	X	-.004	-.004	0	%100
58	M75B	Z	.006	.006	0	%100
59	M76D	X	-5.942	-5.942	0	%100
60	M76D	Z	10.292	10.292	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-5.934	-5.934	0	%100
64	M83	Z	10.277	10.277	0	%100
65	M88	X	-5.934	-5.934	0	%100
66	M88	Z	10.277	10.277	0	%100
67	M89	X	-5.934	-5.934	0	%100
68	M89	Z	10.277	10.277	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-5.934	-5.934	0	%100
74	M97	Z	10.277	10.277	0	%100
75	M98	X	-5.934	-5.934	0	%100
76	M98	Z	10.277	10.277	0	%100
77	M114	X	-8.941	-8.941	0	%100
78	M114	Z	15.486	15.486	0	%100
79	M125	X	-8e-6	-8e-6	0	%100
80	M125	Z	1.5e-5	1.5e-5	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-8.417	-8.417	0	%100
2	M1	Z	4.86	4.86	0	%100
3	M2	X	-8.417	-8.417	0	%100
4	M2	Z	4.86	4.86	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	-3.426	-3.426	0	%100
8	M5	Z	1.978	1.978	0	%100
9	M7	X	-5.182	-5.182	0	%100
10	M7	Z	2.992	2.992	0	%100
11	M50	X	-6.851	-6.851	0	%100
12	M50	Z	3.956	3.956	0	%100
13	MP1B	X	-6.509	-6.509	0	%100
14	MP1B	Z	3.758	3.758	0	%100
15	MP2B	X	-6.509	-6.509	0	%100
16	MP2B	Z	3.758	3.758	0	%100
17	MP3B	X	-6.509	-6.509	0	%100
18	MP3B	Z	3.758	3.758	0	%100
19	MP4B	X	-6.509	-6.509	0	%100
20	MP4B	Z	3.758	3.758	0	%100
21	F	X	-6.851	-6.851	0	%100
22	F	Z	3.956	3.956	0	%100
23	MP1A	X	-6.509	-6.509	0	%100
24	MP1A	Z	3.758	3.758	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,%]
25	MP2A	X	-6.509	-6.509	0	%100
26	MP2A	Z	3.758	3.758	0	%100
27	MP3A	X	-6.509	-6.509	0	%100
28	MP3A	Z	3.758	3.758	0	%100
29	MP4A	X	-6.509	-6.509	0	%100
30	MP4A	Z	3.758	3.758	0	%100
31	M68	X	-27.406	-27.406	0	%100
32	M68	Z	15.823	15.823	0	%100
33	MP1C	X	-6.509	-6.509	0	%100
34	MP1C	Z	3.758	3.758	0	%100
35	MP2C	X	-6.509	-6.509	0	%100
36	MP2C	Z	3.758	3.758	0	%100
37	MP3C	X	-6.509	-6.509	0	%100
38	MP3C	Z	3.758	3.758	0	%100
39	MP4C	X	-6.509	-6.509	0	%100
40	MP4C	Z	3.758	3.758	0	%100
41	M76A	X	-5.375	-5.375	0	%100
42	M76A	Z	3.103	3.103	0	%100
43	M77	X	-3.426	-3.426	0	%100
44	M77	Z	1.978	1.978	0	%100
45	M75	X	-13.703	-13.703	0	%100
46	M75	Z	7.911	7.911	0	%100
47	M76B	X	-3.477	-3.477	0	%100
48	M76B	Z	2.008	2.008	0	%100
49	M77A	X	-3.426	-3.426	0	%100
50	M77A	Z	1.978	1.978	0	%100
51	M75A	X	-13.703	-13.703	0	%100
52	M75A	Z	7.911	7.911	0	%100
53	M76C	X	-3.422	-3.422	0	%100
54	M76C	Z	1.976	1.976	0	%100
55	M77B	X	-13.703	-13.703	0	%100
56	M77B	Z	7.911	7.911	0	%100
57	M75B	X	-3.171	-3.171	0	%100
58	M75B	Z	1.831	1.831	0	%100
59	M76D	X	-3.441	-3.441	0	%100
60	M76D	Z	1.987	1.987	0	%100
61	M80	X	-3.426	-3.426	0	%100
62	M80	Z	1.978	1.978	0	%100
63	M83	X	-13.703	-13.703	0	%100
64	M83	Z	7.911	7.911	0	%100
65	M88	X	-13.703	-13.703	0	%100
66	M88	Z	7.911	7.911	0	%100
67	M89	X	-3.426	-3.426	0	%100
68	M89	Z	1.978	1.978	0	%100
69	M90	X	-3.426	-3.426	0	%100
70	M90	Z	1.978	1.978	0	%100
71	M96	X	-3.426	-3.426	0	%100
72	M96	Z	1.978	1.978	0	%100
73	M97	X	-13.703	-13.703	0	%100
74	M97	Z	7.911	7.911	0	%100
75	M98	X	-3.426	-3.426	0	%100
76	M98	Z	1.978	1.978	0	%100
77	M114	X	-20.668	-20.668	0	%100
78	M114	Z	11.933	11.933	0	%100
79	M125	X	-5.152	-5.152	0	%100
80	M125	Z	2.974	2.974	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-12.959	-12.959	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.24	-3.24	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-3.24	-3.24	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	-1.7e-5	-1.7e-5	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	-23.734	-23.734	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-7.516	-7.516	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	-7.516	-7.516	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	-7.516	-7.516	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	-7.516	-7.516	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	-7.516	-7.516	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	-7.516	-7.516	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-7.516	-7.516	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-7.516	-7.516	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	-23.734	-23.734	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-7.516	-7.516	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-7.516	-7.516	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-7.516	-7.516	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-7.516	-7.516	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	-6.207	-6.207	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	-11.862	-11.862	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-11.926	-11.926	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	-11.867	-11.867	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-11.872	-11.872	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	-2e-6	-2e-6	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	-11.867	-11.867	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-11.565	-11.565	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,%]
58	M75B	Z	0	0	0	%100
59	M76D	X	-2.6e-5	-2.6e-5	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	-11.867	-11.867	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-11.867	-11.867	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	-11.867	-11.867	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	-11.867	-11.867	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	-11.867	-11.867	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-11.867	-11.867	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	-17.916	-17.916	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	-17.882	-17.882	0	%100
80	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-8.417	-8.417	0	%100
2	M1	Z	-4.86	-4.86	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-8.417	-8.417	0	%100
6	M3	Z	-4.86	-4.86	0	%100
7	M5	X	-3.426	-3.426	0	%100
8	M5	Z	-1.978	-1.978	0	%100
9	M7	X	-5.152	-5.152	0	%100
10	M7	Z	-2.974	-2.974	0	%100
11	M50	X	-27.406	-27.406	0	%100
12	M50	Z	-15.823	-15.823	0	%100
13	MP1B	X	-6.509	-6.509	0	%100
14	MP1B	Z	-3.758	-3.758	0	%100
15	MP2B	X	-6.509	-6.509	0	%100
16	MP2B	Z	-3.758	-3.758	0	%100
17	MP3B	X	-6.509	-6.509	0	%100
18	MP3B	Z	-3.758	-3.758	0	%100
19	MP4B	X	-6.509	-6.509	0	%100
20	MP4B	Z	-3.758	-3.758	0	%100
21	F	X	-6.851	-6.851	0	%100
22	F	Z	-3.956	-3.956	0	%100
23	MP1A	X	-6.509	-6.509	0	%100
24	MP1A	Z	-3.758	-3.758	0	%100
25	MP2A	X	-6.509	-6.509	0	%100
26	MP2A	Z	-3.758	-3.758	0	%100
27	MP3A	X	-6.509	-6.509	0	%100
28	MP3A	Z	-3.758	-3.758	0	%100
29	MP4A	X	-6.509	-6.509	0	%100
30	MP4A	Z	-3.758	-3.758	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,%]
31	M68	X	-6.851	-6.851	0	%100
32	M68	Z	-3.956	-3.956	0	%100
33	MP1C	X	-6.509	-6.509	0	%100
34	MP1C	Z	-3.758	-3.758	0	%100
35	MP2C	X	-6.509	-6.509	0	%100
36	MP2C	Z	-3.758	-3.758	0	%100
37	MP3C	X	-6.509	-6.509	0	%100
38	MP3C	Z	-3.758	-3.758	0	%100
39	MP4C	X	-6.509	-6.509	0	%100
40	MP4C	Z	-3.758	-3.758	0	%100
41	M76A	X	-5.375	-5.375	0	%100
42	M76A	Z	-3.103	-3.103	0	%100
43	M77	X	-3.426	-3.426	0	%100
44	M77	Z	-1.978	-1.978	0	%100
45	M75	X	-3.421	-3.421	0	%100
46	M75	Z	-1.975	-1.975	0	%100
47	M76B	X	-13.703	-13.703	0	%100
48	M76B	Z	-7.911	-7.911	0	%100
49	M77A	X	-13.703	-13.703	0	%100
50	M77A	Z	-7.911	-7.911	0	%100
51	M75A	X	-3.43	-3.43	0	%100
52	M75A	Z	-1.98	-1.98	0	%100
53	M76C	X	-3.43	-3.43	0	%100
54	M76C	Z	-1.98	-1.98	0	%100
55	M77B	X	-3.426	-3.426	0	%100
56	M77B	Z	-1.978	-1.978	0	%100
57	M75B	X	-13.696	-13.696	0	%100
58	M75B	Z	-7.908	-7.908	0	%100
59	M76D	X	-3.411	-3.411	0	%100
60	M76D	Z	-1.969	-1.969	0	%100
61	M80	X	-13.703	-13.703	0	%100
62	M80	Z	-7.911	-7.911	0	%100
63	M83	X	-3.426	-3.426	0	%100
64	M83	Z	-1.978	-1.978	0	%100
65	M88	X	-3.426	-3.426	0	%100
66	M88	Z	-1.978	-1.978	0	%100
67	M89	X	-3.426	-3.426	0	%100
68	M89	Z	-1.978	-1.978	0	%100
69	M90	X	-13.703	-13.703	0	%100
70	M90	Z	-7.911	-7.911	0	%100
71	M96	X	-13.703	-13.703	0	%100
72	M96	Z	-7.911	-7.911	0	%100
73	M97	X	-3.426	-3.426	0	%100
74	M97	Z	-1.978	-1.978	0	%100
75	M98	X	-3.426	-3.426	0	%100
76	M98	Z	-1.978	-1.978	0	%100
77	M114	X	-5.182	-5.182	0	%100
78	M114	Z	-2.992	-2.992	0	%100
79	M125	X	-20.668	-20.668	0	%100
80	M125	Z	-11.933	-11.933	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.62	-1.62	0	%100
2	M1	Z	-2.806	-2.806	0	%100
3	M2	X	-1.62	-1.62	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,%]
4	M2	Z	-2.806	-2.806	0	%100
5	M3	X	-6.479	-6.479	0	%100
6	M3	Z	-11.223	-11.223	0	%100
7	M5	X	-5.934	-5.934	0	%100
8	M5	Z	-10.277	-10.277	0	%100
9	M7	X	-8.941	-8.941	0	%100
10	M7	Z	-15.486	-15.486	0	%100
11	M50	X	-11.867	-11.867	0	%100
12	M50	Z	-20.554	-20.554	0	%100
13	MP1B	X	-3.758	-3.758	0	%100
14	MP1B	Z	-6.509	-6.509	0	%100
15	MP2B	X	-3.758	-3.758	0	%100
16	MP2B	Z	-6.509	-6.509	0	%100
17	MP3B	X	-3.758	-3.758	0	%100
18	MP3B	Z	-6.509	-6.509	0	%100
19	MP4B	X	-3.758	-3.758	0	%100
20	MP4B	Z	-6.509	-6.509	0	%100
21	F	X	-11.867	-11.867	0	%100
22	F	Z	-20.554	-20.554	0	%100
23	MP1A	X	-3.758	-3.758	0	%100
24	MP1A	Z	-6.509	-6.509	0	%100
25	MP2A	X	-3.758	-3.758	0	%100
26	MP2A	Z	-6.509	-6.509	0	%100
27	MP3A	X	-3.758	-3.758	0	%100
28	MP3A	Z	-6.509	-6.509	0	%100
29	MP4A	X	-3.758	-3.758	0	%100
30	MP4A	Z	-6.509	-6.509	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-3.758	-3.758	0	%100
34	MP1C	Z	-6.509	-6.509	0	%100
35	MP2C	X	-3.758	-3.758	0	%100
36	MP2C	Z	-6.509	-6.509	0	%100
37	MP3C	X	-3.758	-3.758	0	%100
38	MP3C	Z	-6.509	-6.509	0	%100
39	MP4C	X	-3.758	-3.758	0	%100
40	MP4C	Z	-6.509	-6.509	0	%100
41	M76A	X	-3.103	-3.103	0	%100
42	M76A	Z	-5.375	-5.375	0	%100
43	M77	X	-5.934	-5.934	0	%100
44	M77	Z	-10.277	-10.277	0	%100
45	M75	X	-1e-6	-1e-6	0	%100
46	M75	Z	-2e-6	-2e-6	0	%100
47	M76B	X	-5.904	-5.904	0	%100
48	M76B	Z	-10.226	-10.226	0	%100
49	M77A	X	-5.934	-5.934	0	%100
50	M77A	Z	-10.277	-10.277	0	%100
51	M75A	X	-1e-6	-1e-6	0	%100
52	M75A	Z	-2e-6	-2e-6	0	%100
53	M76C	X	-5.936	-5.936	0	%100
54	M76C	Z	-10.281	-10.281	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-6.081	-6.081	0	%100
58	M75B	Z	-10.532	-10.532	0	%100
59	M76D	X	-5.925	-5.925	0	%100
60	M76D	Z	-10.262	-10.262	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,%]
61	M80	X	-5.934	-5.934	0	%100
62	M80	Z	-10.277	-10.277	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	-5.934	-5.934	0	%100
68	M89	Z	-10.277	-10.277	0	%100
69	M90	X	-5.934	-5.934	0	%100
70	M90	Z	-10.277	-10.277	0	%100
71	M96	X	-5.934	-5.934	0	%100
72	M96	Z	-10.277	-10.277	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	-5.934	-5.934	0	%100
76	M98	Z	-10.277	-10.277	0	%100
77	M114	X	-8e-6	-8e-6	0	%100
78	M114	Z	-1.5e-5	-1.5e-5	0	%100
79	M125	X	-8.958	-8.958	0	%100
80	M125	Z	-15.516	-15.516	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-2.776	-2.776	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-2.776	-2.776	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-3.71	-3.71	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-5.693	-5.693	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-1.778	-1.778	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	-2.707	-2.707	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	-2.707	-2.707	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	-2.707	-2.707	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	-2.707	-2.707	0	%100
21	F	X	0	0	0	%100
22	F	Z	-7.113	-7.113	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	-2.707	-2.707	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-2.707	-2.707	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-2.707	-2.707	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-2.707	-2.707	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	-1.778	-1.778	0	%100
33	MP1C	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,%]
34	MP1C	Z	-2.707	-2.707	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-2.707	-2.707	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-2.707	-2.707	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-2.707	-2.707	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	-2.246	-2.246	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	-3.713	-3.713	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-.919	-.919	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	-.904	-.904	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-.928	-.928	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	-.917	-.917	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	-3.67	-3.67	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	-.928	-.928	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	-.987	-.987	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	-3.685	-3.685	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	-.919	-.919	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	-.919	-.919	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	-.928	-.928	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	-3.677	-3.677	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	-.919	-.919	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	-.928	-.928	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	-.919	-.919	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	-3.677	-3.677	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	-1.419	-1.419	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	-1.427	-1.427	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	M1	X	.463	.463	0	%100
2	M1	Z	-.801	-.801	0	%100
3	M2	X	1.85	1.85	0	%100
4	M2	Z	-3.205	-3.205	0	%100
5	M3	X	.463	.463	0	%100
6	M3	Z	-.801	-.801	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,%]
7	M5	X	1.391	1.391	0	%100
8	M5	Z	-2.41	-2.41	0	%100
9	M7	X	2.137	2.137	0	%100
10	M7	Z	-3.701	-3.701	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	1.353	1.353	0	%100
14	MP1B	Z	-2.344	-2.344	0	%100
15	MP2B	X	1.353	1.353	0	%100
16	MP2B	Z	-2.344	-2.344	0	%100
17	MP3B	X	1.353	1.353	0	%100
18	MP3B	Z	-2.344	-2.344	0	%100
19	MP4B	X	1.353	1.353	0	%100
20	MP4B	Z	-2.344	-2.344	0	%100
21	F	X	2.668	2.668	0	%100
22	F	Z	-4.62	-4.62	0	%100
23	MP1A	X	1.353	1.353	0	%100
24	MP1A	Z	-2.344	-2.344	0	%100
25	MP2A	X	1.353	1.353	0	%100
26	MP2A	Z	-2.344	-2.344	0	%100
27	MP3A	X	1.353	1.353	0	%100
28	MP3A	Z	-2.344	-2.344	0	%100
29	MP4A	X	1.353	1.353	0	%100
30	MP4A	Z	-2.344	-2.344	0	%100
31	M68	X	2.668	2.668	0	%100
32	M68	Z	-4.62	-4.62	0	%100
33	MP1C	X	1.353	1.353	0	%100
34	MP1C	Z	-2.344	-2.344	0	%100
35	MP2C	X	1.353	1.353	0	%100
36	MP2C	Z	-2.344	-2.344	0	%100
37	MP3C	X	1.353	1.353	0	%100
38	MP3C	Z	-2.344	-2.344	0	%100
39	MP4C	X	1.353	1.353	0	%100
40	MP4C	Z	-2.344	-2.344	0	%100
41	M76A	X	1.123	1.123	0	%100
42	M76A	Z	-1.946	-1.946	0	%100
43	M77	X	1.392	1.392	0	%100
44	M77	Z	-2.412	-2.412	0	%100
45	M75	X	1.377	1.377	0	%100
46	M75	Z	-2.385	-2.385	0	%100
47	M76B	X	3.4e-5	3.4e-5	0	%100
48	M76B	Z	-6e-5	-6e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	1.376	1.376	0	%100
52	M75A	Z	-2.383	-2.383	0	%100
53	M76C	X	1.376	1.376	0	%100
54	M76C	Z	-2.383	-2.383	0	%100
55	M77B	X	1.392	1.392	0	%100
56	M77B	Z	-2.412	-2.412	0	%100
57	M75B	X	.00087	.00087	0	%100
58	M75B	Z	-.002	-.002	0	%100
59	M76D	X	1.384	1.384	0	%100
60	M76D	Z	-2.397	-2.397	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	1.379	1.379	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,%]
64	M83	Z	-2.388	-2.388	0	%100
65	M88	X	1.391	1.391	0	%100
66	M88	Z	-2.41	-2.41	0	%100
67	M89	X	1.379	1.379	0	%100
68	M89	Z	-2.388	-2.388	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	1.379	1.379	0	%100
74	M97	Z	-2.388	-2.388	0	%100
75	M98	X	1.379	1.379	0	%100
76	M98	Z	-2.388	-2.388	0	%100
77	M114	X	2.133	2.133	0	%100
78	M114	Z	-3.694	-3.694	0	%100
79	M125	X	2e-6	2e-6	0	%100
80	M125	Z	-3e-6	-3e-6	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.404	2.404	0	%100
2	M1	Z	-1.388	-1.388	0	%100
3	M2	X	2.404	2.404	0	%100
4	M2	Z	-1.388	-1.388	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	.803	.803	0	%100
8	M5	Z	-.464	-.464	0	%100
9	M7	X	1.236	1.236	0	%100
10	M7	Z	-.714	-.714	0	%100
11	M50	X	1.54	1.54	0	%100
12	M50	Z	-.889	-.889	0	%100
13	MP1B	X	2.344	2.344	0	%100
14	MP1B	Z	-1.353	-1.353	0	%100
15	MP2B	X	2.344	2.344	0	%100
16	MP2B	Z	-1.353	-1.353	0	%100
17	MP3B	X	2.344	2.344	0	%100
18	MP3B	Z	-1.353	-1.353	0	%100
19	MP4B	X	2.344	2.344	0	%100
20	MP4B	Z	-1.353	-1.353	0	%100
21	F	X	1.54	1.54	0	%100
22	F	Z	-.889	-.889	0	%100
23	MP1A	X	2.344	2.344	0	%100
24	MP1A	Z	-1.353	-1.353	0	%100
25	MP2A	X	2.344	2.344	0	%100
26	MP2A	Z	-1.353	-1.353	0	%100
27	MP3A	X	2.344	2.344	0	%100
28	MP3A	Z	-1.353	-1.353	0	%100
29	MP4A	X	2.344	2.344	0	%100
30	MP4A	Z	-1.353	-1.353	0	%100
31	M68	X	6.16	6.16	0	%100
32	M68	Z	-3.557	-3.557	0	%100
33	MP1C	X	2.344	2.344	0	%100
34	MP1C	Z	-1.353	-1.353	0	%100
35	MP2C	X	2.344	2.344	0	%100
36	MP2C	Z	-1.353	-1.353	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,%]
37	MP3C	X	2.344	2.344	0	%100
38	MP3C	Z	-1.353	-1.353	0	%100
39	MP4C	X	2.344	2.344	0	%100
40	MP4C	Z	-1.353	-1.353	0	%100
41	M76A	X	1.946	1.946	0	%100
42	M76A	Z	-1.123	-1.123	0	%100
43	M77	X	.804	.804	0	%100
44	M77	Z	-.464	-.464	0	%100
45	M75	X	3.179	3.179	0	%100
46	M75	Z	-1.835	-1.835	0	%100
47	M76B	X	.807	.807	0	%100
48	M76B	Z	-.466	-.466	0	%100
49	M77A	X	.804	.804	0	%100
50	M77A	Z	-.464	-.464	0	%100
51	M75A	X	3.179	3.179	0	%100
52	M75A	Z	-1.835	-1.835	0	%100
53	M76C	X	.794	.794	0	%100
54	M76C	Z	-.458	-.458	0	%100
55	M77B	X	3.216	3.216	0	%100
56	M77B	Z	-1.857	-1.857	0	%100
57	M75B	X	.735	.735	0	%100
58	M75B	Z	-.424	-.424	0	%100
59	M76D	X	.801	.801	0	%100
60	M76D	Z	-.463	-.463	0	%100
61	M80	X	.796	.796	0	%100
62	M80	Z	-.46	-.46	0	%100
63	M83	X	3.184	3.184	0	%100
64	M83	Z	-1.839	-1.839	0	%100
65	M88	X	3.213	3.213	0	%100
66	M88	Z	-1.855	-1.855	0	%100
67	M89	X	.796	.796	0	%100
68	M89	Z	-.46	-.46	0	%100
69	M90	X	.796	.796	0	%100
70	M90	Z	-.46	-.46	0	%100
71	M96	X	.803	.803	0	%100
72	M96	Z	-.464	-.464	0	%100
73	M97	X	3.184	3.184	0	%100
74	M97	Z	-1.839	-1.839	0	%100
75	M98	X	.796	.796	0	%100
76	M98	Z	-.46	-.46	0	%100
77	M114	X	4.93	4.93	0	%100
78	M114	Z	-2.846	-2.846	0	%100
79	M125	X	1.229	1.229	0	%100
80	M125	Z	-.71	-.71	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.701	3.701	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.925	.925	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.925	.925	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	4e-6	4e-6	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,%]
10	M7	Z	0	0	0	%100
11	M50	X	5.335	5.335	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	2.707	2.707	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	2.707	2.707	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	2.707	2.707	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	2.707	2.707	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	2.707	2.707	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	2.707	2.707	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	2.707	2.707	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	2.707	2.707	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	5.335	5.335	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	2.707	2.707	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	2.707	2.707	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	2.707	2.707	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	2.707	2.707	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	2.246	2.246	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	2.752	2.752	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	2.767	2.767	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	2.785	2.785	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	2.754	2.754	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	2.785	2.785	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	2.681	2.681	0	%100
58	M75B	Z	0	0	0	%100
59	M76D	X	6e-6	6e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	2.758	2.758	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	2.758	2.758	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	2.783	2.783	0	%100
66	M88	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,%]
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	2.758	2.758	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	2.783	2.783	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	2.758	2.758	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	4.274	4.274	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	4.265	4.265	0	%100
80	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.404	2.404	0	%100
2	M1	Z	1.388	1.388	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	2.404	2.404	0	%100
6	M3	Z	1.388	1.388	0	%100
7	M5	X	.803	.803	0	%100
8	M5	Z	.464	.464	0	%100
9	M7	X	1.229	1.229	0	%100
10	M7	Z	.71	.71	0	%100
11	M50	X	6.16	6.16	0	%100
12	M50	Z	3.557	3.557	0	%100
13	MP1B	X	2.344	2.344	0	%100
14	MP1B	Z	1.353	1.353	0	%100
15	MP2B	X	2.344	2.344	0	%100
16	MP2B	Z	1.353	1.353	0	%100
17	MP3B	X	2.344	2.344	0	%100
18	MP3B	Z	1.353	1.353	0	%100
19	MP4B	X	2.344	2.344	0	%100
20	MP4B	Z	1.353	1.353	0	%100
21	F	X	1.54	1.54	0	%100
22	F	Z	.889	.889	0	%100
23	MP1A	X	2.344	2.344	0	%100
24	MP1A	Z	1.353	1.353	0	%100
25	MP2A	X	2.344	2.344	0	%100
26	MP2A	Z	1.353	1.353	0	%100
27	MP3A	X	2.344	2.344	0	%100
28	MP3A	Z	1.353	1.353	0	%100
29	MP4A	X	2.344	2.344	0	%100
30	MP4A	Z	1.353	1.353	0	%100
31	M68	X	1.54	1.54	0	%100
32	M68	Z	.889	.889	0	%100
33	MP1C	X	2.344	2.344	0	%100
34	MP1C	Z	1.353	1.353	0	%100
35	MP2C	X	2.344	2.344	0	%100
36	MP2C	Z	1.353	1.353	0	%100
37	MP3C	X	2.344	2.344	0	%100
38	MP3C	Z	1.353	1.353	0	%100
39	MP4C	X	2.344	2.344	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,%]
40	MP4C	Z	1.353	1.353	0	%100
41	M76A	X	1.946	1.946	0	%100
42	M76A	Z	1.123	1.123	0	%100
43	M77	X	.804	.804	0	%100
44	M77	Z	.464	.464	0	%100
45	M75	X	.794	.794	0	%100
46	M75	Z	.458	.458	0	%100
47	M76B	X	3.179	3.179	0	%100
48	M76B	Z	1.835	1.835	0	%100
49	M77A	X	3.216	3.216	0	%100
50	M77A	Z	1.857	1.857	0	%100
51	M75A	X	.796	.796	0	%100
52	M75A	Z	.459	.459	0	%100
53	M76C	X	.796	.796	0	%100
54	M76C	Z	.459	.459	0	%100
55	M77B	X	.804	.804	0	%100
56	M77B	Z	.464	.464	0	%100
57	M75B	X	3.175	3.175	0	%100
58	M75B	Z	1.833	1.833	0	%100
59	M76D	X	.794	.794	0	%100
60	M76D	Z	.459	.459	0	%100
61	M80	X	3.184	3.184	0	%100
62	M80	Z	1.839	1.839	0	%100
63	M83	X	.796	.796	0	%100
64	M83	Z	.46	.46	0	%100
65	M88	X	.803	.803	0	%100
66	M88	Z	.464	.464	0	%100
67	M89	X	.796	.796	0	%100
68	M89	Z	.46	.46	0	%100
69	M90	X	3.184	3.184	0	%100
70	M90	Z	1.839	1.839	0	%100
71	M96	X	3.213	3.213	0	%100
72	M96	Z	1.855	1.855	0	%100
73	M97	X	.796	.796	0	%100
74	M97	Z	.46	.46	0	%100
75	M98	X	.796	.796	0	%100
76	M98	Z	.46	.46	0	%100
77	M114	X	1.236	1.236	0	%100
78	M114	Z	.714	.714	0	%100
79	M125	X	4.93	4.93	0	%100
80	M125	Z	2.846	2.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.463	.463	0	%100
2	M1	Z	.801	.801	0	%100
3	M2	X	.463	.463	0	%100
4	M2	Z	.801	.801	0	%100
5	M3	X	1.85	1.85	0	%100
6	M3	Z	3.205	3.205	0	%100
7	M5	X	1.391	1.391	0	%100
8	M5	Z	2.41	2.41	0	%100
9	M7	X	2.133	2.133	0	%100
10	M7	Z	3.694	3.694	0	%100
11	M50	X	2.668	2.668	0	%100
12	M50	Z	4.62	4.62	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,%]
13	MP1B	X	1.353	1.353	0	%100
14	MP1B	Z	2.344	2.344	0	%100
15	MP2B	X	1.353	1.353	0	%100
16	MP2B	Z	2.344	2.344	0	%100
17	MP3B	X	1.353	1.353	0	%100
18	MP3B	Z	2.344	2.344	0	%100
19	MP4B	X	1.353	1.353	0	%100
20	MP4B	Z	2.344	2.344	0	%100
21	F	X	2.668	2.668	0	%100
22	F	Z	4.62	4.62	0	%100
23	MP1A	X	1.353	1.353	0	%100
24	MP1A	Z	2.344	2.344	0	%100
25	MP2A	X	1.353	1.353	0	%100
26	MP2A	Z	2.344	2.344	0	%100
27	MP3A	X	1.353	1.353	0	%100
28	MP3A	Z	2.344	2.344	0	%100
29	MP4A	X	1.353	1.353	0	%100
30	MP4A	Z	2.344	2.344	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	1.353	1.353	0	%100
34	MP1C	Z	2.344	2.344	0	%100
35	MP2C	X	1.353	1.353	0	%100
36	MP2C	Z	2.344	2.344	0	%100
37	MP3C	X	1.353	1.353	0	%100
38	MP3C	Z	2.344	2.344	0	%100
39	MP4C	X	1.353	1.353	0	%100
40	MP4C	Z	2.344	2.344	0	%100
41	M76A	X	1.123	1.123	0	%100
42	M76A	Z	1.946	1.946	0	%100
43	M77	X	1.392	1.392	0	%100
44	M77	Z	2.412	2.412	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	1.369	1.369	0	%100
48	M76B	Z	2.372	2.372	0	%100
49	M77A	X	1.392	1.392	0	%100
50	M77A	Z	2.412	2.412	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	1.377	1.377	0	%100
54	M76C	Z	2.385	2.385	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	1.41	1.41	0	%100
58	M75B	Z	2.442	2.442	0	%100
59	M76D	X	1.38	1.38	0	%100
60	M76D	Z	2.39	2.39	0	%100
61	M80	X	1.379	1.379	0	%100
62	M80	Z	2.388	2.388	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	1.379	1.379	0	%100
68	M89	Z	2.388	2.388	0	%100
69	M90	X	1.379	1.379	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,%]
70	M90	Z	2.388	2.388	0	%100
71	M96	X	1.391	1.391	0	%100
72	M96	Z	2.41	2.41	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	1.379	1.379	0	%100
76	M98	Z	2.388	2.388	0	%100
77	M114	X	2e-6	2e-6	0	%100
78	M114	Z	3e-6	3e-6	0	%100
79	M125	X	2.137	2.137	0	%100
80	M125	Z	3.701	3.701	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.776	2.776	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	2.776	2.776	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	3.71	3.71	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	5.693	5.693	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	1.778	1.778	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	2.707	2.707	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	2.707	2.707	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	2.707	2.707	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	2.707	2.707	0	%100
21	F	X	0	0	0	%100
22	F	Z	7.113	7.113	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	2.707	2.707	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	2.707	2.707	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	2.707	2.707	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	2.707	2.707	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	1.778	1.778	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	2.707	2.707	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	2.707	2.707	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	2.707	2.707	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	2.707	2.707	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	2.246	2.246	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,%]
43	M77	X	0	0	0	%100
44	M77	Z	3.713	3.713	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	.919	.919	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	.904	.904	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	.928	.928	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	.917	.917	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	3.67	3.67	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	.928	.928	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	.987	.987	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	3.685	3.685	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	.919	.919	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	.919	.919	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	.928	.928	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	3.677	3.677	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	.919	.919	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	.928	.928	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	.919	.919	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	3.677	3.677	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	1.419	1.419	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	1.427	1.427	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.463	-.463	0	%100
2	M1	Z	.801	.801	0	%100
3	M2	X	-1.85	-1.85	0	%100
4	M2	Z	3.205	3.205	0	%100
5	M3	X	-.463	-.463	0	%100
6	M3	Z	.801	.801	0	%100
7	M5	X	-1.391	-1.391	0	%100
8	M5	Z	2.41	2.41	0	%100
9	M7	X	-2.137	-2.137	0	%100
10	M7	Z	3.701	3.701	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-1.353	-1.353	0	%100
14	MP1B	Z	2.344	2.344	0	%100
15	MP2B	X	-1.353	-1.353	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,%]
16	MP2B	Z	2.344	2.344	0	%100
17	MP3B	X	-1.353	-1.353	0	%100
18	MP3B	Z	2.344	2.344	0	%100
19	MP4B	X	-1.353	-1.353	0	%100
20	MP4B	Z	2.344	2.344	0	%100
21	F	X	-2.668	-2.668	0	%100
22	F	Z	4.62	4.62	0	%100
23	MP1A	X	-1.353	-1.353	0	%100
24	MP1A	Z	2.344	2.344	0	%100
25	MP2A	X	-1.353	-1.353	0	%100
26	MP2A	Z	2.344	2.344	0	%100
27	MP3A	X	-1.353	-1.353	0	%100
28	MP3A	Z	2.344	2.344	0	%100
29	MP4A	X	-1.353	-1.353	0	%100
30	MP4A	Z	2.344	2.344	0	%100
31	M68	X	-2.668	-2.668	0	%100
32	M68	Z	4.62	4.62	0	%100
33	MP1C	X	-1.353	-1.353	0	%100
34	MP1C	Z	2.344	2.344	0	%100
35	MP2C	X	-1.353	-1.353	0	%100
36	MP2C	Z	2.344	2.344	0	%100
37	MP3C	X	-1.353	-1.353	0	%100
38	MP3C	Z	2.344	2.344	0	%100
39	MP4C	X	-1.353	-1.353	0	%100
40	MP4C	Z	2.344	2.344	0	%100
41	M76A	X	-1.123	-1.123	0	%100
42	M76A	Z	1.946	1.946	0	%100
43	M77	X	-1.392	-1.392	0	%100
44	M77	Z	2.412	2.412	0	%100
45	M75	X	-1.377	-1.377	0	%100
46	M75	Z	2.385	2.385	0	%100
47	M76B	X	-3.4e-5	-3.4e-5	0	%100
48	M76B	Z	6e-5	6e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-1.376	-1.376	0	%100
52	M75A	Z	2.383	2.383	0	%100
53	M76C	X	-1.376	-1.376	0	%100
54	M76C	Z	2.383	2.383	0	%100
55	M77B	X	-1.392	-1.392	0	%100
56	M77B	Z	2.412	2.412	0	%100
57	M75B	X	-.00087	-.00087	0	%100
58	M75B	Z	.002	.002	0	%100
59	M76D	X	-1.384	-1.384	0	%100
60	M76D	Z	2.397	2.397	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-1.379	-1.379	0	%100
64	M83	Z	2.388	2.388	0	%100
65	M88	X	-1.391	-1.391	0	%100
66	M88	Z	2.41	2.41	0	%100
67	M89	X	-1.379	-1.379	0	%100
68	M89	Z	2.388	2.388	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	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,%]
73	M97	X	-1.379	-1.379	0	%100
74	M97	Z	2.388	2.388	0	%100
75	M98	X	-1.379	-1.379	0	%100
76	M98	Z	2.388	2.388	0	%100
77	M114	X	-2.133	-2.133	0	%100
78	M114	Z	3.694	3.694	0	%100
79	M125	X	-2e-6	-2e-6	0	%100
80	M125	Z	3e-6	3e-6	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.404	-2.404	0	%100
2	M1	Z	1.388	1.388	0	%100
3	M2	X	-2.404	-2.404	0	%100
4	M2	Z	1.388	1.388	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	-.803	-.803	0	%100
8	M5	Z	.464	.464	0	%100
9	M7	X	-1.236	-1.236	0	%100
10	M7	Z	.714	.714	0	%100
11	M50	X	-1.54	-1.54	0	%100
12	M50	Z	.889	.889	0	%100
13	MP1B	X	-2.344	-2.344	0	%100
14	MP1B	Z	1.353	1.353	0	%100
15	MP2B	X	-2.344	-2.344	0	%100
16	MP2B	Z	1.353	1.353	0	%100
17	MP3B	X	-2.344	-2.344	0	%100
18	MP3B	Z	1.353	1.353	0	%100
19	MP4B	X	-2.344	-2.344	0	%100
20	MP4B	Z	1.353	1.353	0	%100
21	F	X	-1.54	-1.54	0	%100
22	F	Z	.889	.889	0	%100
23	MP1A	X	-2.344	-2.344	0	%100
24	MP1A	Z	1.353	1.353	0	%100
25	MP2A	X	-2.344	-2.344	0	%100
26	MP2A	Z	1.353	1.353	0	%100
27	MP3A	X	-2.344	-2.344	0	%100
28	MP3A	Z	1.353	1.353	0	%100
29	MP4A	X	-2.344	-2.344	0	%100
30	MP4A	Z	1.353	1.353	0	%100
31	M68	X	-6.16	-6.16	0	%100
32	M68	Z	3.557	3.557	0	%100
33	MP1C	X	-2.344	-2.344	0	%100
34	MP1C	Z	1.353	1.353	0	%100
35	MP2C	X	-2.344	-2.344	0	%100
36	MP2C	Z	1.353	1.353	0	%100
37	MP3C	X	-2.344	-2.344	0	%100
38	MP3C	Z	1.353	1.353	0	%100
39	MP4C	X	-2.344	-2.344	0	%100
40	MP4C	Z	1.353	1.353	0	%100
41	M76A	X	-1.946	-1.946	0	%100
42	M76A	Z	1.123	1.123	0	%100
43	M77	X	-.804	-.804	0	%100
44	M77	Z	.464	.464	0	%100
45	M75	X	-3.179	-3.179	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,%]
46	M75	Z	1.835	1.835	0	%100
47	M76B	X	-.807	-.807	0	%100
48	M76B	Z	.466	.466	0	%100
49	M77A	X	-.804	-.804	0	%100
50	M77A	Z	.464	.464	0	%100
51	M75A	X	-3.179	-3.179	0	%100
52	M75A	Z	1.835	1.835	0	%100
53	M76C	X	-.794	-.794	0	%100
54	M76C	Z	.458	.458	0	%100
55	M77B	X	-3.216	-3.216	0	%100
56	M77B	Z	1.857	1.857	0	%100
57	M75B	X	-.735	-.735	0	%100
58	M75B	Z	.424	.424	0	%100
59	M76D	X	-.801	-.801	0	%100
60	M76D	Z	.463	.463	0	%100
61	M80	X	-.796	-.796	0	%100
62	M80	Z	.46	.46	0	%100
63	M83	X	-3.184	-3.184	0	%100
64	M83	Z	1.839	1.839	0	%100
65	M88	X	-3.213	-3.213	0	%100
66	M88	Z	1.855	1.855	0	%100
67	M89	X	-.796	-.796	0	%100
68	M89	Z	.46	.46	0	%100
69	M90	X	-.796	-.796	0	%100
70	M90	Z	.46	.46	0	%100
71	M96	X	-.803	-.803	0	%100
72	M96	Z	.464	.464	0	%100
73	M97	X	-3.184	-3.184	0	%100
74	M97	Z	1.839	1.839	0	%100
75	M98	X	-.796	-.796	0	%100
76	M98	Z	.46	.46	0	%100
77	M114	X	-4.93	-4.93	0	%100
78	M114	Z	2.846	2.846	0	%100
79	M125	X	-1.229	-1.229	0	%100
80	M125	Z	.71	.71	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	M1	X	-3.701	-3.701	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.925	-.925	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.925	-.925	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	-4e-6	-4e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	-5.335	-5.335	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-2.707	-2.707	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	-2.707	-2.707	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	-2.707	-2.707	0	%100
18	MP3B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	MP4B	X	-2.707	-2.707	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	-2.707	-2.707	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	-2.707	-2.707	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-2.707	-2.707	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-2.707	-2.707	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	-5.335	-5.335	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-2.707	-2.707	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-2.707	-2.707	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-2.707	-2.707	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-2.707	-2.707	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	-2.246	-2.246	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	-2.752	-2.752	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-2.767	-2.767	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	-2.785	-2.785	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-2.754	-2.754	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	-2.785	-2.785	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-2.681	-2.681	0	%100
58	M75B	Z	0	0	0	%100
59	M76D	X	-6e-6	-6e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	-2.758	-2.758	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-2.758	-2.758	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	-2.783	-2.783	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	-2.758	-2.758	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	-2.783	-2.783	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-2.758	-2.758	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	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,%]
76	M98	Z	0	0	0	%100
77	M114	X	-4.274	-4.274	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	-4.265	-4.265	0	%100
80	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.404	-2.404	0	%100
2	M1	Z	-1.388	-1.388	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-2.404	-2.404	0	%100
6	M3	Z	-1.388	-1.388	0	%100
7	M5	X	-.803	-.803	0	%100
8	M5	Z	-.464	-.464	0	%100
9	M7	X	-1.229	-1.229	0	%100
10	M7	Z	-.71	-.71	0	%100
11	M50	X	-6.16	-6.16	0	%100
12	M50	Z	-3.557	-3.557	0	%100
13	MP1B	X	-2.344	-2.344	0	%100
14	MP1B	Z	-1.353	-1.353	0	%100
15	MP2B	X	-2.344	-2.344	0	%100
16	MP2B	Z	-1.353	-1.353	0	%100
17	MP3B	X	-2.344	-2.344	0	%100
18	MP3B	Z	-1.353	-1.353	0	%100
19	MP4B	X	-2.344	-2.344	0	%100
20	MP4B	Z	-1.353	-1.353	0	%100
21	F	X	-1.54	-1.54	0	%100
22	F	Z	-.889	-.889	0	%100
23	MP1A	X	-2.344	-2.344	0	%100
24	MP1A	Z	-1.353	-1.353	0	%100
25	MP2A	X	-2.344	-2.344	0	%100
26	MP2A	Z	-1.353	-1.353	0	%100
27	MP3A	X	-2.344	-2.344	0	%100
28	MP3A	Z	-1.353	-1.353	0	%100
29	MP4A	X	-2.344	-2.344	0	%100
30	MP4A	Z	-1.353	-1.353	0	%100
31	M68	X	-1.54	-1.54	0	%100
32	M68	Z	-.889	-.889	0	%100
33	MP1C	X	-2.344	-2.344	0	%100
34	MP1C	Z	-1.353	-1.353	0	%100
35	MP2C	X	-2.344	-2.344	0	%100
36	MP2C	Z	-1.353	-1.353	0	%100
37	MP3C	X	-2.344	-2.344	0	%100
38	MP3C	Z	-1.353	-1.353	0	%100
39	MP4C	X	-2.344	-2.344	0	%100
40	MP4C	Z	-1.353	-1.353	0	%100
41	M76A	X	-1.946	-1.946	0	%100
42	M76A	Z	-1.123	-1.123	0	%100
43	M77	X	-.804	-.804	0	%100
44	M77	Z	-.464	-.464	0	%100
45	M75	X	-.794	-.794	0	%100
46	M75	Z	-.458	-.458	0	%100
47	M76B	X	-3.179	-3.179	0	%100
48	M76B	Z	-1.835	-1.835	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,%]
49	M77A	X	-3.216	-3.216	0	%100
50	M77A	Z	-1.857	-1.857	0	%100
51	M75A	X	-.796	-.796	0	%100
52	M75A	Z	-.459	-.459	0	%100
53	M76C	X	-.796	-.796	0	%100
54	M76C	Z	-.459	-.459	0	%100
55	M77B	X	-.804	-.804	0	%100
56	M77B	Z	-.464	-.464	0	%100
57	M75B	X	-3.175	-3.175	0	%100
58	M75B	Z	-1.833	-1.833	0	%100
59	M76D	X	-.794	-.794	0	%100
60	M76D	Z	-.459	-.459	0	%100
61	M80	X	-3.184	-3.184	0	%100
62	M80	Z	-1.839	-1.839	0	%100
63	M83	X	-.796	-.796	0	%100
64	M83	Z	-.46	-.46	0	%100
65	M88	X	-.803	-.803	0	%100
66	M88	Z	-.464	-.464	0	%100
67	M89	X	-.796	-.796	0	%100
68	M89	Z	-.46	-.46	0	%100
69	M90	X	-3.184	-3.184	0	%100
70	M90	Z	-1.839	-1.839	0	%100
71	M96	X	-3.213	-3.213	0	%100
72	M96	Z	-1.855	-1.855	0	%100
73	M97	X	-.796	-.796	0	%100
74	M97	Z	-.46	-.46	0	%100
75	M98	X	-.796	-.796	0	%100
76	M98	Z	-.46	-.46	0	%100
77	M114	X	-1.236	-1.236	0	%100
78	M114	Z	-.714	-.714	0	%100
79	M125	X	-4.93	-4.93	0	%100
80	M125	Z	-2.846	-2.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.463	-.463	0	%100
2	M1	Z	-.801	-.801	0	%100
3	M2	X	-.463	-.463	0	%100
4	M2	Z	-.801	-.801	0	%100
5	M3	X	-1.85	-1.85	0	%100
6	M3	Z	-3.205	-3.205	0	%100
7	M5	X	-1.391	-1.391	0	%100
8	M5	Z	-2.41	-2.41	0	%100
9	M7	X	-2.133	-2.133	0	%100
10	M7	Z	-3.694	-3.694	0	%100
11	M50	X	-2.668	-2.668	0	%100
12	M50	Z	-4.62	-4.62	0	%100
13	MP1B	X	-1.353	-1.353	0	%100
14	MP1B	Z	-2.344	-2.344	0	%100
15	MP2B	X	-1.353	-1.353	0	%100
16	MP2B	Z	-2.344	-2.344	0	%100
17	MP3B	X	-1.353	-1.353	0	%100
18	MP3B	Z	-2.344	-2.344	0	%100
19	MP4B	X	-1.353	-1.353	0	%100
20	MP4B	Z	-2.344	-2.344	0	%100
21	F	X	-2.668	-2.668	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,%]
22	F	Z	-4.62	-4.62	0	%100
23	MP1A	X	-1.353	-1.353	0	%100
24	MP1A	Z	-2.344	-2.344	0	%100
25	MP2A	X	-1.353	-1.353	0	%100
26	MP2A	Z	-2.344	-2.344	0	%100
27	MP3A	X	-1.353	-1.353	0	%100
28	MP3A	Z	-2.344	-2.344	0	%100
29	MP4A	X	-1.353	-1.353	0	%100
30	MP4A	Z	-2.344	-2.344	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-1.353	-1.353	0	%100
34	MP1C	Z	-2.344	-2.344	0	%100
35	MP2C	X	-1.353	-1.353	0	%100
36	MP2C	Z	-2.344	-2.344	0	%100
37	MP3C	X	-1.353	-1.353	0	%100
38	MP3C	Z	-2.344	-2.344	0	%100
39	MP4C	X	-1.353	-1.353	0	%100
40	MP4C	Z	-2.344	-2.344	0	%100
41	M76A	X	-1.123	-1.123	0	%100
42	M76A	Z	-1.946	-1.946	0	%100
43	M77	X	-1.392	-1.392	0	%100
44	M77	Z	-2.412	-2.412	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-1.369	-1.369	0	%100
48	M76B	Z	-2.372	-2.372	0	%100
49	M77A	X	-1.392	-1.392	0	%100
50	M77A	Z	-2.412	-2.412	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	-1.377	-1.377	0	%100
54	M76C	Z	-2.385	-2.385	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-1.41	-1.41	0	%100
58	M75B	Z	-2.442	-2.442	0	%100
59	M76D	X	-1.38	-1.38	0	%100
60	M76D	Z	-2.39	-2.39	0	%100
61	M80	X	-1.379	-1.379	0	%100
62	M80	Z	-2.388	-2.388	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	-1.379	-1.379	0	%100
68	M89	Z	-2.388	-2.388	0	%100
69	M90	X	-1.379	-1.379	0	%100
70	M90	Z	-2.388	-2.388	0	%100
71	M96	X	-1.391	-1.391	0	%100
72	M96	Z	-2.41	-2.41	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	-1.379	-1.379	0	%100
76	M98	Z	-2.388	-2.388	0	%100
77	M114	X	-2e-6	-2e-6	0	%100
78	M114	Z	-3e-6	-3e-6	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,%]
79	M125	X	-2.137	-2.137	0	%100
80	M125	Z	-3.701	-3.701	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.639	-.639	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.639	-.639	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-1.04	-1.04	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-1.569	-1.569	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-.52	-.52	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	-.494	-.494	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	-.494	-.494	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	-.494	-.494	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	-.494	-.494	0	%100
21	F	X	0	0	0	%100
22	F	Z	-2.081	-2.081	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	-.494	-.494	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-.494	-.494	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-.494	-.494	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-.494	-.494	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	-.52	-.52	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-.494	-.494	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-.494	-.494	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-.494	-.494	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-.494	-.494	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	-.408	-.408	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	-1.04	-1.04	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-.26	-.26	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	-.256	-.256	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-.26	-.26	0	%100
51	M75A	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,%]
52	M75A	Z	-.26	-.26	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	-1.04	-1.04	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	-.26	-.26	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	-.28	-.28	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	-1.04	-1.04	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	-.26	-.26	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	-.26	-.26	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	-.26	-.26	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	-1.04	-1.04	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	-.26	-.26	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	-.26	-.26	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	-.26	-.26	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	-1.04	-1.04	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	-.391	-.391	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	-.393	-.393	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.106	.106	0	%100
2	M1	Z	-.184	-.184	0	%100
3	M2	X	.426	.426	0	%100
4	M2	Z	-.738	-.738	0	%100
5	M3	X	.106	.106	0	%100
6	M3	Z	-.184	-.184	0	%100
7	M5	X	.39	.39	0	%100
8	M5	Z	-.676	-.676	0	%100
9	M7	X	.589	.589	0	%100
10	M7	Z	-1.02	-1.02	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	.247	.247	0	%100
14	MP1B	Z	-.428	-.428	0	%100
15	MP2B	X	.247	.247	0	%100
16	MP2B	Z	-.428	-.428	0	%100
17	MP3B	X	.247	.247	0	%100
18	MP3B	Z	-.428	-.428	0	%100
19	MP4B	X	.247	.247	0	%100
20	MP4B	Z	-.428	-.428	0	%100
21	F	X	.78	.78	0	%100
22	F	Z	-1.351	-1.351	0	%100
23	MP1A	X	.247	.247	0	%100
24	MP1A	Z	-.428	-.428	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,%]
25	MP2A	X	.247	.247	0	%100
26	MP2A	Z	-.428	-.428	0	%100
27	MP3A	X	.247	.247	0	%100
28	MP3A	Z	-.428	-.428	0	%100
29	MP4A	X	.247	.247	0	%100
30	MP4A	Z	-.428	-.428	0	%100
31	M68	X	.78	.78	0	%100
32	M68	Z	-1.351	-1.351	0	%100
33	MP1C	X	.247	.247	0	%100
34	MP1C	Z	-.428	-.428	0	%100
35	MP2C	X	.247	.247	0	%100
36	MP2C	Z	-.428	-.428	0	%100
37	MP3C	X	.247	.247	0	%100
38	MP3C	Z	-.428	-.428	0	%100
39	MP4C	X	.247	.247	0	%100
40	MP4C	Z	-.428	-.428	0	%100
41	M76A	X	.204	.204	0	%100
42	M76A	Z	-.353	-.353	0	%100
43	M77	X	.39	.39	0	%100
44	M77	Z	-.676	-.676	0	%100
45	M75	X	.39	.39	0	%100
46	M75	Z	-.676	-.676	0	%100
47	M76B	X	1e-5	1e-5	0	%100
48	M76B	Z	-1.7e-5	-1.7e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	.39	.39	0	%100
52	M75A	Z	-.675	-.675	0	%100
53	M76C	X	.39	.39	0	%100
54	M76C	Z	-.675	-.675	0	%100
55	M77B	X	.39	.39	0	%100
56	M77B	Z	-.676	-.676	0	%100
57	M75B	X	.000247	.000247	0	%100
58	M75B	Z	-.000427	-.000427	0	%100
59	M76D	X	.391	.391	0	%100
60	M76D	Z	-.677	-.677	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	.39	.39	0	%100
64	M83	Z	-.676	-.676	0	%100
65	M88	X	.39	.39	0	%100
66	M88	Z	-.676	-.676	0	%100
67	M89	X	.39	.39	0	%100
68	M89	Z	-.676	-.676	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	.39	.39	0	%100
74	M97	Z	-.676	-.676	0	%100
75	M98	X	.39	.39	0	%100
76	M98	Z	-.676	-.676	0	%100
77	M114	X	.588	.588	0	%100
78	M114	Z	-1.018	-1.018	0	%100
79	M125	X	1e-6	1e-6	0	%100
80	M125	Z	-1e-6	-1e-6	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.553	.553	0	%100
2	M1	Z	-.319	-.319	0	%100
3	M2	X	.553	.553	0	%100
4	M2	Z	-.319	-.319	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	.225	.225	0	%100
8	M5	Z	-.13	-.13	0	%100
9	M7	X	.341	.341	0	%100
10	M7	Z	-.197	-.197	0	%100
11	M50	X	.45	.45	0	%100
12	M50	Z	-.26	-.26	0	%100
13	MP1B	X	.428	.428	0	%100
14	MP1B	Z	-.247	-.247	0	%100
15	MP2B	X	.428	.428	0	%100
16	MP2B	Z	-.247	-.247	0	%100
17	MP3B	X	.428	.428	0	%100
18	MP3B	Z	-.247	-.247	0	%100
19	MP4B	X	.428	.428	0	%100
20	MP4B	Z	-.247	-.247	0	%100
21	F	X	.45	.45	0	%100
22	F	Z	-.26	-.26	0	%100
23	MP1A	X	.428	.428	0	%100
24	MP1A	Z	-.247	-.247	0	%100
25	MP2A	X	.428	.428	0	%100
26	MP2A	Z	-.247	-.247	0	%100
27	MP3A	X	.428	.428	0	%100
28	MP3A	Z	-.247	-.247	0	%100
29	MP4A	X	.428	.428	0	%100
30	MP4A	Z	-.247	-.247	0	%100
31	M68	X	1.802	1.802	0	%100
32	M68	Z	-1.04	-1.04	0	%100
33	MP1C	X	.428	.428	0	%100
34	MP1C	Z	-.247	-.247	0	%100
35	MP2C	X	.428	.428	0	%100
36	MP2C	Z	-.247	-.247	0	%100
37	MP3C	X	.428	.428	0	%100
38	MP3C	Z	-.247	-.247	0	%100
39	MP4C	X	.428	.428	0	%100
40	MP4C	Z	-.247	-.247	0	%100
41	M76A	X	.353	.353	0	%100
42	M76A	Z	-.204	-.204	0	%100
43	M77	X	.225	.225	0	%100
44	M77	Z	-.13	-.13	0	%100
45	M75	X	.901	.901	0	%100
46	M75	Z	-.52	-.52	0	%100
47	M76B	X	.229	.229	0	%100
48	M76B	Z	-.132	-.132	0	%100
49	M77A	X	.225	.225	0	%100
50	M77A	Z	-.13	-.13	0	%100
51	M75A	X	.901	.901	0	%100
52	M75A	Z	-.52	-.52	0	%100
53	M76C	X	.225	.225	0	%100
54	M76C	Z	-.13	-.13	0	%100
55	M77B	X	.901	.901	0	%100
56	M77B	Z	-.52	-.52	0	%100
57	M75B	X	.208	.208	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,%]
58	M75B	Z	-.12	-.12	0	%100
59	M76D	X	.226	.226	0	%100
60	M76D	Z	-.131	-.131	0	%100
61	M80	X	.225	.225	0	%100
62	M80	Z	-.13	-.13	0	%100
63	M83	X	.901	.901	0	%100
64	M83	Z	-.52	-.52	0	%100
65	M88	X	.901	.901	0	%100
66	M88	Z	-.52	-.52	0	%100
67	M89	X	.225	.225	0	%100
68	M89	Z	-.13	-.13	0	%100
69	M90	X	.225	.225	0	%100
70	M90	Z	-.13	-.13	0	%100
71	M96	X	.225	.225	0	%100
72	M96	Z	-.13	-.13	0	%100
73	M97	X	.901	.901	0	%100
74	M97	Z	-.52	-.52	0	%100
75	M98	X	.225	.225	0	%100
76	M98	Z	-.13	-.13	0	%100
77	M114	X	1.359	1.359	0	%100
78	M114	Z	-.785	-.785	0	%100
79	M125	X	.339	.339	0	%100
80	M125	Z	-.196	-.196	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.852	.852	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.213	.213	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.213	.213	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	1e-6	1e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	1.56	1.56	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	.494	.494	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	.494	.494	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	.494	.494	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	.494	.494	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	.494	.494	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	.494	.494	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	.494	.494	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	.494	.494	0	%100
30	MP4A	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,%]
31	M68	X	1.56	1.56	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	.494	.494	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	.494	.494	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	.494	.494	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	.494	.494	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	.408	.408	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	.78	.78	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	.784	.784	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	.78	.78	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	.781	.781	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	.78	.78	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	.76	.76	0	%100
58	M75B	Z	0	0	0	%100
59	M76D	X	2e-6	2e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	.78	.78	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	.78	.78	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	.78	.78	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	.78	.78	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	.78	.78	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	.78	.78	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	1.178	1.178	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	1.176	1.176	0	%100
80	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.553	.553	0	%100
2	M1	Z	.319	.319	0	%100
3	M2	X	0	0	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,%]
4	M2	Z	0	0	0	%100
5	M3	X	.553	.553	0	%100
6	M3	Z	.319	.319	0	%100
7	M5	X	.225	.225	0	%100
8	M5	Z	.13	.13	0	%100
9	M7	X	.339	.339	0	%100
10	M7	Z	.196	.196	0	%100
11	M50	X	1.802	1.802	0	%100
12	M50	Z	1.04	1.04	0	%100
13	MP1B	X	.428	.428	0	%100
14	MP1B	Z	.247	.247	0	%100
15	MP2B	X	.428	.428	0	%100
16	MP2B	Z	.247	.247	0	%100
17	MP3B	X	.428	.428	0	%100
18	MP3B	Z	.247	.247	0	%100
19	MP4B	X	.428	.428	0	%100
20	MP4B	Z	.247	.247	0	%100
21	F	X	.45	.45	0	%100
22	F	Z	.26	.26	0	%100
23	MP1A	X	.428	.428	0	%100
24	MP1A	Z	.247	.247	0	%100
25	MP2A	X	.428	.428	0	%100
26	MP2A	Z	.247	.247	0	%100
27	MP3A	X	.428	.428	0	%100
28	MP3A	Z	.247	.247	0	%100
29	MP4A	X	.428	.428	0	%100
30	MP4A	Z	.247	.247	0	%100
31	M68	X	.45	.45	0	%100
32	M68	Z	.26	.26	0	%100
33	MP1C	X	.428	.428	0	%100
34	MP1C	Z	.247	.247	0	%100
35	MP2C	X	.428	.428	0	%100
36	MP2C	Z	.247	.247	0	%100
37	MP3C	X	.428	.428	0	%100
38	MP3C	Z	.247	.247	0	%100
39	MP4C	X	.428	.428	0	%100
40	MP4C	Z	.247	.247	0	%100
41	M76A	X	.353	.353	0	%100
42	M76A	Z	.204	.204	0	%100
43	M77	X	.225	.225	0	%100
44	M77	Z	.13	.13	0	%100
45	M75	X	.225	.225	0	%100
46	M75	Z	.13	.13	0	%100
47	M76B	X	.901	.901	0	%100
48	M76B	Z	.52	.52	0	%100
49	M77A	X	.901	.901	0	%100
50	M77A	Z	.52	.52	0	%100
51	M75A	X	.225	.225	0	%100
52	M75A	Z	.13	.13	0	%100
53	M76C	X	.225	.225	0	%100
54	M76C	Z	.13	.13	0	%100
55	M77B	X	.225	.225	0	%100
56	M77B	Z	.13	.13	0	%100
57	M75B	X	.9	.9	0	%100
58	M75B	Z	.52	.52	0	%100
59	M76D	X	.224	.224	0	%100
60	M76D	Z	.129	.129	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,%]
61	M80	X	.901	.901	0	%100
62	M80	Z	.52	.52	0	%100
63	M83	X	.225	.225	0	%100
64	M83	Z	.13	.13	0	%100
65	M88	X	.225	.225	0	%100
66	M88	Z	.13	.13	0	%100
67	M89	X	.225	.225	0	%100
68	M89	Z	.13	.13	0	%100
69	M90	X	.901	.901	0	%100
70	M90	Z	.52	.52	0	%100
71	M96	X	.901	.901	0	%100
72	M96	Z	.52	.52	0	%100
73	M97	X	.225	.225	0	%100
74	M97	Z	.13	.13	0	%100
75	M98	X	.225	.225	0	%100
76	M98	Z	.13	.13	0	%100
77	M114	X	.341	.341	0	%100
78	M114	Z	.197	.197	0	%100
79	M125	X	1.359	1.359	0	%100
80	M125	Z	.785	.785	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	M1	X	.106	.106	0	%100
2	M1	Z	.184	.184	0	%100
3	M2	X	.106	.106	0	%100
4	M2	Z	.184	.184	0	%100
5	M3	X	.426	.426	0	%100
6	M3	Z	.738	.738	0	%100
7	M5	X	.39	.39	0	%100
8	M5	Z	.676	.676	0	%100
9	M7	X	.588	.588	0	%100
10	M7	Z	1.018	1.018	0	%100
11	M50	X	.78	.78	0	%100
12	M50	Z	1.351	1.351	0	%100
13	MP1B	X	.247	.247	0	%100
14	MP1B	Z	.428	.428	0	%100
15	MP2B	X	.247	.247	0	%100
16	MP2B	Z	.428	.428	0	%100
17	MP3B	X	.247	.247	0	%100
18	MP3B	Z	.428	.428	0	%100
19	MP4B	X	.247	.247	0	%100
20	MP4B	Z	.428	.428	0	%100
21	F	X	.78	.78	0	%100
22	F	Z	1.351	1.351	0	%100
23	MP1A	X	.247	.247	0	%100
24	MP1A	Z	.428	.428	0	%100
25	MP2A	X	.247	.247	0	%100
26	MP2A	Z	.428	.428	0	%100
27	MP3A	X	.247	.247	0	%100
28	MP3A	Z	.428	.428	0	%100
29	MP4A	X	.247	.247	0	%100
30	MP4A	Z	.428	.428	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	.247	.247	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,%]
34	MP1C	Z	.428	.428	0	%100
35	MP2C	X	.247	.247	0	%100
36	MP2C	Z	.428	.428	0	%100
37	MP3C	X	.247	.247	0	%100
38	MP3C	Z	.428	.428	0	%100
39	MP4C	X	.247	.247	0	%100
40	MP4C	Z	.428	.428	0	%100
41	M76A	X	.204	.204	0	%100
42	M76A	Z	.353	.353	0	%100
43	M77	X	.39	.39	0	%100
44	M77	Z	.676	.676	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	.388	.388	0	%100
48	M76B	Z	.672	.672	0	%100
49	M77A	X	.39	.39	0	%100
50	M77A	Z	.676	.676	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	.39	.39	0	%100
54	M76C	Z	.676	.676	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	.4	.4	0	%100
58	M75B	Z	.692	.692	0	%100
59	M76D	X	.39	.39	0	%100
60	M76D	Z	.675	.675	0	%100
61	M80	X	.39	.39	0	%100
62	M80	Z	.676	.676	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	.39	.39	0	%100
68	M89	Z	.676	.676	0	%100
69	M90	X	.39	.39	0	%100
70	M90	Z	.676	.676	0	%100
71	M96	X	.39	.39	0	%100
72	M96	Z	.676	.676	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	.39	.39	0	%100
76	M98	Z	.676	.676	0	%100
77	M114	X	1e-6	1e-6	0	%100
78	M114	Z	1e-6	1e-6	0	%100
79	M125	X	.589	.589	0	%100
80	M125	Z	1.02	1.02	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.639	.639	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.639	.639	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,%]
7	M5	X	0	0	0	%100
8	M5	Z	1.04	1.04	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	1.569	1.569	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	.52	.52	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	.494	.494	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	.494	.494	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	.494	.494	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	.494	.494	0	%100
21	F	X	0	0	0	%100
22	F	Z	2.081	2.081	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	.494	.494	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	.494	.494	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	.494	.494	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	.494	.494	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	.52	.52	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	.494	.494	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	.494	.494	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	.494	.494	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	.494	.494	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	.408	.408	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	1.04	1.04	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	.26	.26	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	.256	.256	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	.26	.26	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	.26	.26	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	1.04	1.04	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	.26	.26	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	.28	.28	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	1.04	1.04	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	.26	.26	0	%100
63	M83	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,%]
64	M83	Z	.26	.26	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	.26	.26	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	1.04	1.04	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	.26	.26	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	.26	.26	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	.26	.26	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	1.04	1.04	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	.391	.391	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	.393	.393	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.106	-.106	0	%100
2	M1	Z	.184	.184	0	%100
3	M2	X	-.426	-.426	0	%100
4	M2	Z	.738	.738	0	%100
5	M3	X	-.106	-.106	0	%100
6	M3	Z	.184	.184	0	%100
7	M5	X	-.39	-.39	0	%100
8	M5	Z	.676	.676	0	%100
9	M7	X	-.589	-.589	0	%100
10	M7	Z	1.02	1.02	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-.247	-.247	0	%100
14	MP1B	Z	.428	.428	0	%100
15	MP2B	X	-.247	-.247	0	%100
16	MP2B	Z	.428	.428	0	%100
17	MP3B	X	-.247	-.247	0	%100
18	MP3B	Z	.428	.428	0	%100
19	MP4B	X	-.247	-.247	0	%100
20	MP4B	Z	.428	.428	0	%100
21	F	X	-.78	-.78	0	%100
22	F	Z	1.351	1.351	0	%100
23	MP1A	X	-.247	-.247	0	%100
24	MP1A	Z	.428	.428	0	%100
25	MP2A	X	-.247	-.247	0	%100
26	MP2A	Z	.428	.428	0	%100
27	MP3A	X	-.247	-.247	0	%100
28	MP3A	Z	.428	.428	0	%100
29	MP4A	X	-.247	-.247	0	%100
30	MP4A	Z	.428	.428	0	%100
31	M68	X	-.78	-.78	0	%100
32	M68	Z	1.351	1.351	0	%100
33	MP1C	X	-.247	-.247	0	%100
34	MP1C	Z	.428	.428	0	%100
35	MP2C	X	-.247	-.247	0	%100
36	MP2C	Z	.428	.428	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,%]
37	MP3C	X	-.247	-.247	0	%100
38	MP3C	Z	.428	.428	0	%100
39	MP4C	X	-.247	-.247	0	%100
40	MP4C	Z	.428	.428	0	%100
41	M76A	X	-.204	-.204	0	%100
42	M76A	Z	.353	.353	0	%100
43	M77	X	-.39	-.39	0	%100
44	M77	Z	.676	.676	0	%100
45	M75	X	-.39	-.39	0	%100
46	M75	Z	.676	.676	0	%100
47	M76B	X	-1e-5	-1e-5	0	%100
48	M76B	Z	1.7e-5	1.7e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-.39	-.39	0	%100
52	M75A	Z	.675	.675	0	%100
53	M76C	X	-.39	-.39	0	%100
54	M76C	Z	.675	.675	0	%100
55	M77B	X	-.39	-.39	0	%100
56	M77B	Z	.676	.676	0	%100
57	M75B	X	-.000247	-.000247	0	%100
58	M75B	Z	.000427	.000427	0	%100
59	M76D	X	-.391	-.391	0	%100
60	M76D	Z	.677	.677	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-.39	-.39	0	%100
64	M83	Z	.676	.676	0	%100
65	M88	X	-.39	-.39	0	%100
66	M88	Z	.676	.676	0	%100
67	M89	X	-.39	-.39	0	%100
68	M89	Z	.676	.676	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-.39	-.39	0	%100
74	M97	Z	.676	.676	0	%100
75	M98	X	-.39	-.39	0	%100
76	M98	Z	.676	.676	0	%100
77	M114	X	-.588	-.588	0	%100
78	M114	Z	1.018	1.018	0	%100
79	M125	X	-1e-6	-1e-6	0	%100
80	M125	Z	1e-6	1e-6	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.553	-.553	0	%100
2	M1	Z	.319	.319	0	%100
3	M2	X	-.553	-.553	0	%100
4	M2	Z	.319	.319	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	-.225	-.225	0	%100
8	M5	Z	.13	.13	0	%100
9	M7	X	-.341	-.341	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,%]
10	M7	Z	.197	.197	0	%100
11	M50	X	-.45	-.45	0	%100
12	M50	Z	.26	.26	0	%100
13	MP1B	X	-.428	-.428	0	%100
14	MP1B	Z	.247	.247	0	%100
15	MP2B	X	-.428	-.428	0	%100
16	MP2B	Z	.247	.247	0	%100
17	MP3B	X	-.428	-.428	0	%100
18	MP3B	Z	.247	.247	0	%100
19	MP4B	X	-.428	-.428	0	%100
20	MP4B	Z	.247	.247	0	%100
21	F	X	-.45	-.45	0	%100
22	F	Z	.26	.26	0	%100
23	MP1A	X	-.428	-.428	0	%100
24	MP1A	Z	.247	.247	0	%100
25	MP2A	X	-.428	-.428	0	%100
26	MP2A	Z	.247	.247	0	%100
27	MP3A	X	-.428	-.428	0	%100
28	MP3A	Z	.247	.247	0	%100
29	MP4A	X	-.428	-.428	0	%100
30	MP4A	Z	.247	.247	0	%100
31	M68	X	-1.802	-1.802	0	%100
32	M68	Z	1.04	1.04	0	%100
33	MP1C	X	-.428	-.428	0	%100
34	MP1C	Z	.247	.247	0	%100
35	MP2C	X	-.428	-.428	0	%100
36	MP2C	Z	.247	.247	0	%100
37	MP3C	X	-.428	-.428	0	%100
38	MP3C	Z	.247	.247	0	%100
39	MP4C	X	-.428	-.428	0	%100
40	MP4C	Z	.247	.247	0	%100
41	M76A	X	-.353	-.353	0	%100
42	M76A	Z	.204	.204	0	%100
43	M77	X	-.225	-.225	0	%100
44	M77	Z	.13	.13	0	%100
45	M75	X	-.901	-.901	0	%100
46	M75	Z	.52	.52	0	%100
47	M76B	X	-.229	-.229	0	%100
48	M76B	Z	.132	.132	0	%100
49	M77A	X	-.225	-.225	0	%100
50	M77A	Z	.13	.13	0	%100
51	M75A	X	-.901	-.901	0	%100
52	M75A	Z	.52	.52	0	%100
53	M76C	X	-.225	-.225	0	%100
54	M76C	Z	.13	.13	0	%100
55	M77B	X	-.901	-.901	0	%100
56	M77B	Z	.52	.52	0	%100
57	M75B	X	-.208	-.208	0	%100
58	M75B	Z	.12	.12	0	%100
59	M76D	X	-.226	-.226	0	%100
60	M76D	Z	.131	.131	0	%100
61	M80	X	-.225	-.225	0	%100
62	M80	Z	.13	.13	0	%100
63	M83	X	-.901	-.901	0	%100
64	M83	Z	.52	.52	0	%100
65	M88	X	-.901	-.901	0	%100
66	M88	Z	.52	.52	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,%]
67	M89	X	-.225	-.225	0	%100
68	M89	Z	.13	.13	0	%100
69	M90	X	-.225	-.225	0	%100
70	M90	Z	.13	.13	0	%100
71	M96	X	-.225	-.225	0	%100
72	M96	Z	.13	.13	0	%100
73	M97	X	-.901	-.901	0	%100
74	M97	Z	.52	.52	0	%100
75	M98	X	-.225	-.225	0	%100
76	M98	Z	.13	.13	0	%100
77	M114	X	-1.359	-1.359	0	%100
78	M114	Z	.785	.785	0	%100
79	M125	X	-.339	-.339	0	%100
80	M125	Z	.196	.196	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	M1	X	-.852	-.852	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.213	-.213	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.213	-.213	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	-1e-6	-1e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	-1.56	-1.56	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-.494	-.494	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	-.494	-.494	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	-.494	-.494	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	-.494	-.494	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	-.494	-.494	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	-.494	-.494	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-.494	-.494	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-.494	-.494	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	-1.56	-1.56	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-.494	-.494	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-.494	-.494	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-.494	-.494	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-.494	-.494	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,%]
40	MP4C	Z	0	0	0	%100
41	M76A	X	-.408	-.408	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	-.78	-.78	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-.784	-.784	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	-.78	-.78	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-.781	-.781	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	-.78	-.78	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-.76	-.76	0	%100
58	M75B	Z	0	0	0	%100
59	M76D	X	-2e-6	-2e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	-.78	-.78	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-.78	-.78	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	-.78	-.78	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	-.78	-.78	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	-.78	-.78	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-.78	-.78	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	-1.178	-1.178	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	-1.176	-1.176	0	%100
80	M125	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.553	-.553	0	%100
2	M1	Z	-.319	-.319	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.553	-.553	0	%100
6	M3	Z	-.319	-.319	0	%100
7	M5	X	-.225	-.225	0	%100
8	M5	Z	-.13	-.13	0	%100
9	M7	X	-.339	-.339	0	%100
10	M7	Z	-.196	-.196	0	%100
11	M50	X	-1.802	-1.802	0	%100
12	M50	Z	-1.04	-1.04	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,%]
13	MP1B	X	-.428	-.428	0	%100
14	MP1B	Z	-.247	-.247	0	%100
15	MP2B	X	-.428	-.428	0	%100
16	MP2B	Z	-.247	-.247	0	%100
17	MP3B	X	-.428	-.428	0	%100
18	MP3B	Z	-.247	-.247	0	%100
19	MP4B	X	-.428	-.428	0	%100
20	MP4B	Z	-.247	-.247	0	%100
21	F	X	-.45	-.45	0	%100
22	F	Z	-.26	-.26	0	%100
23	MP1A	X	-.428	-.428	0	%100
24	MP1A	Z	-.247	-.247	0	%100
25	MP2A	X	-.428	-.428	0	%100
26	MP2A	Z	-.247	-.247	0	%100
27	MP3A	X	-.428	-.428	0	%100
28	MP3A	Z	-.247	-.247	0	%100
29	MP4A	X	-.428	-.428	0	%100
30	MP4A	Z	-.247	-.247	0	%100
31	M68	X	-.45	-.45	0	%100
32	M68	Z	-.26	-.26	0	%100
33	MP1C	X	-.428	-.428	0	%100
34	MP1C	Z	-.247	-.247	0	%100
35	MP2C	X	-.428	-.428	0	%100
36	MP2C	Z	-.247	-.247	0	%100
37	MP3C	X	-.428	-.428	0	%100
38	MP3C	Z	-.247	-.247	0	%100
39	MP4C	X	-.428	-.428	0	%100
40	MP4C	Z	-.247	-.247	0	%100
41	M76A	X	-.353	-.353	0	%100
42	M76A	Z	-.204	-.204	0	%100
43	M77	X	-.225	-.225	0	%100
44	M77	Z	-.13	-.13	0	%100
45	M75	X	-.225	-.225	0	%100
46	M75	Z	-.13	-.13	0	%100
47	M76B	X	-.901	-.901	0	%100
48	M76B	Z	-.52	-.52	0	%100
49	M77A	X	-.901	-.901	0	%100
50	M77A	Z	-.52	-.52	0	%100
51	M75A	X	-.225	-.225	0	%100
52	M75A	Z	-.13	-.13	0	%100
53	M76C	X	-.225	-.225	0	%100
54	M76C	Z	-.13	-.13	0	%100
55	M77B	X	-.225	-.225	0	%100
56	M77B	Z	-.13	-.13	0	%100
57	M75B	X	-.9	-.9	0	%100
58	M75B	Z	-.52	-.52	0	%100
59	M76D	X	-.224	-.224	0	%100
60	M76D	Z	-.129	-.129	0	%100
61	M80	X	-.901	-.901	0	%100
62	M80	Z	-.52	-.52	0	%100
63	M83	X	-.225	-.225	0	%100
64	M83	Z	-.13	-.13	0	%100
65	M88	X	-.225	-.225	0	%100
66	M88	Z	-.13	-.13	0	%100
67	M89	X	-.225	-.225	0	%100
68	M89	Z	-.13	-.13	0	%100
69	M90	X	-.901	-.901	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,%]
70	M90	Z	-.52	-.52	0	%100
71	M96	X	-.901	-.901	0	%100
72	M96	Z	-.52	-.52	0	%100
73	M97	X	-.225	-.225	0	%100
74	M97	Z	-.13	-.13	0	%100
75	M98	X	-.225	-.225	0	%100
76	M98	Z	-.13	-.13	0	%100
77	M114	X	-.341	-.341	0	%100
78	M114	Z	-.197	-.197	0	%100
79	M125	X	-1.359	-1.359	0	%100
80	M125	Z	-.785	-.785	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.106	-.106	0	%100
2	M1	Z	-.184	-.184	0	%100
3	M2	X	-.106	-.106	0	%100
4	M2	Z	-.184	-.184	0	%100
5	M3	X	-.426	-.426	0	%100
6	M3	Z	-.738	-.738	0	%100
7	M5	X	-.39	-.39	0	%100
8	M5	Z	-.676	-.676	0	%100
9	M7	X	-.588	-.588	0	%100
10	M7	Z	-1.018	-1.018	0	%100
11	M50	X	-.78	-.78	0	%100
12	M50	Z	-1.351	-1.351	0	%100
13	MP1B	X	-.247	-.247	0	%100
14	MP1B	Z	-.428	-.428	0	%100
15	MP2B	X	-.247	-.247	0	%100
16	MP2B	Z	-.428	-.428	0	%100
17	MP3B	X	-.247	-.247	0	%100
18	MP3B	Z	-.428	-.428	0	%100
19	MP4B	X	-.247	-.247	0	%100
20	MP4B	Z	-.428	-.428	0	%100
21	F	X	-.78	-.78	0	%100
22	F	Z	-1.351	-1.351	0	%100
23	MP1A	X	-.247	-.247	0	%100
24	MP1A	Z	-.428	-.428	0	%100
25	MP2A	X	-.247	-.247	0	%100
26	MP2A	Z	-.428	-.428	0	%100
27	MP3A	X	-.247	-.247	0	%100
28	MP3A	Z	-.428	-.428	0	%100
29	MP4A	X	-.247	-.247	0	%100
30	MP4A	Z	-.428	-.428	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-.247	-.247	0	%100
34	MP1C	Z	-.428	-.428	0	%100
35	MP2C	X	-.247	-.247	0	%100
36	MP2C	Z	-.428	-.428	0	%100
37	MP3C	X	-.247	-.247	0	%100
38	MP3C	Z	-.428	-.428	0	%100
39	MP4C	X	-.247	-.247	0	%100
40	MP4C	Z	-.428	-.428	0	%100
41	M76A	X	-.204	-.204	0	%100
42	M76A	Z	-.353	-.353	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	M77	X	-.39	-.39	0	%100
44	M77	Z	-.676	-.676	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-.388	-.388	0	%100
48	M76B	Z	-.672	-.672	0	%100
49	M77A	X	-.39	-.39	0	%100
50	M77A	Z	-.676	-.676	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	-.39	-.39	0	%100
54	M76C	Z	-.676	-.676	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-.4	-.4	0	%100
58	M75B	Z	-.692	-.692	0	%100
59	M76D	X	-.39	-.39	0	%100
60	M76D	Z	-.675	-.675	0	%100
61	M80	X	-.39	-.39	0	%100
62	M80	Z	-.676	-.676	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	-.39	-.39	0	%100
68	M89	Z	-.676	-.676	0	%100
69	M90	X	-.39	-.39	0	%100
70	M90	Z	-.676	-.676	0	%100
71	M96	X	-.39	-.39	0	%100
72	M96	Z	-.676	-.676	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	-.39	-.39	0	%100
76	M98	Z	-.676	-.676	0	%100
77	M114	X	-1e-6	-1e-6	0	%100
78	M114	Z	-1e-6	-1e-6	0	%100
79	M125	X	-.589	-.589	0	%100
80	M125	Z	-1.02	-1.02	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-.825	-2.393	0	.406
2	M5	Y	-2.393	-3.96	.406	.812
3	M7	Y	-.375	-5.024	0	1.025
4	M7	Y	-5.024	-7.183	1.025	2.05
5	M7	Y	-7.183	-6.612	2.05	3.075
6	M7	Y	-6.612	-4.535	3.075	4.1
7	M7	Y	-4.535	-.375	4.1	5.125
8	M50	Y	-.053	-2.65	6.25	7.5
9	M50	Y	-2.65	-6.338	7.5	8.75
10	M50	Y	-6.338	-6.242	8.75	10
11	M50	Y	-6.242	-2.288	10	11.25
12	M50	Y	-2.288	-.053	11.25	12.5
13	M68	Y	-.059	-2.759	0	1.25
14	M68	Y	-2.759	-7.142	1.25	2.5
15	M68	Y	-7.142	-6.333	2.5	3.75

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M68	Y	-6.333	-2.246	3.75	5
17	M68	Y	-2.246	-.059	5	6.25
18	M76C	Y	-.585	-2.759	0	.5
19	M76D	Y	-.451	-2.759	0	.613
20	M78	Y	-22.247	-22.247	0	.042
21	M80	Y	-2.071	-2.071	0	.552
22	M82	Y	-21.696	-21.696	0	.042
23	M83	Y	-15.353	-15.353	.139	.183
24	M50	Y	-.07	-2.587	0	1.25
25	M50	Y	-2.587	-6.442	1.25	2.5
26	M50	Y	-6.442	-6.403	2.5	3.75
27	M50	Y	-6.403	-2.895	3.75	5
28	M50	Y	-2.895	-.07	5	6.25
29	F	Y	-.105	-2.491	6.25	7.5
30	F	Y	-2.491	-6.223	7.5	8.75
31	F	Y	-6.223	-6.484	8.75	10
32	F	Y	-6.484	-2.228	10	11.25
33	F	Y	-2.228	-.105	11.25	12.5
34	M75	Y	-.372	-2.491	0	.5
35	M75A	Y	-.627	-2.491	0	.5
36	M85	Y	-12.342	-12.342	0	.042
37	M87	Y	-37.956	-37.956	0	.042
38	M88	Y	-2.097	-2.097	0	.812
39	M89	Y	-2.51	-2.51	0	.473
40	M90	Y	-7.38	-7.38	.151	.276
41	M114	Y	-1.031	-4.273	0	1.025
42	M114	Y	-4.273	-7.134	1.025	2.05
43	M114	Y	-7.134	-7.51	2.05	3.075
44	M114	Y	-7.51	-4.359	3.075	4.1
45	M114	Y	-4.359	-.336	4.1	5.125
46	F	Y	-.051	-2.256	0	1.25
47	F	Y	-2.256	-7.124	1.25	2.5
48	F	Y	-7.124	-6.875	2.5	3.75
49	F	Y	-6.875	-2.263	3.75	5
50	F	Y	-2.263	-.051	5	6.25
51	M68	Y	-.043	-2.683	6.25	7.5
52	M68	Y	-2.683	-6.788	7.5	8.75
53	M68	Y	-6.788	-6.409	8.75	10
54	M68	Y	-6.409	-2.09	10	11.25
55	M68	Y	-2.09	-.043	11.25	12.5
56	M76B	Y	-1.18	-1.18	0	.5
57	M75B	Y	-.983	-.983	.053	.438
58	M93	Y	-16.454	-16.454	0	.042
59	M95	Y	-36.704	-36.704	0	.042
60	M96	Y	-2.138	-2.138	0	.812
61	M97	Y	-1.562	-2.138	0	.552
62	M98	Y	-1.077	-1.077	0	.552
63	M122	Y	-4.875	-4.875	0	.024
64	M125	Y	-1.907	-4.814	0	1.025
65	M125	Y	-4.814	-6.35	1.025	2.05
66	M125	Y	-6.35	-6.733	2.05	3.075
67	M125	Y	-6.733	-4.83	3.075	4.1
68	M125	Y	-4.83	-.419	4.1	5.125

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-1.6	-4.838	0	.406
2	M5	Y	-4.838	-8.076	.406	.812
3	M7	Y	-.729	-9.712	0	1.025
4	M7	Y	-9.712	-14.461	1.025	2.05
5	M7	Y	-14.461	-13.948	2.05	3.075
6	M7	Y	-13.948	-9.377	3.075	4.1
7	M7	Y	-9.377	-.729	4.1	5.125
8	M50	Y	-.103	-5	6.25	7.5
9	M50	Y	-5	-12.573	7.5	8.75
10	M50	Y	-12.573	-13.196	8.75	10
11	M50	Y	-13.196	-5.108	10	11.25
12	M50	Y	-5.108	-.103	11.25	12.5
13	M68	Y	-.113	-5.05	0	1.25
14	M68	Y	-5.05	-11.835	1.25	2.5
15	M68	Y	-11.835	-10.62	2.5	3.75
16	M68	Y	-10.62	-4.401	3.75	5
17	M68	Y	-4.401	-.113	5	6.25
18	M76C	Y	-1.422	-5.05	0	.5
19	M76D	Y	-.997	-5.05	0	.613
20	M78	Y	-25.399	-25.399	0	.042
21	M80	Y	-4.209	-4.209	0	.552
22	M82	Y	-48.48	-48.48	0	.042
23	M83	Y	-2.525	-2.525	0	.552
24	F	Y	-.197	-3.737	0	1.25
25	F	Y	-3.737	-11.494	1.25	2.5
26	F	Y	-11.494	-12.243	2.5	3.75
27	F	Y	-12.243	-5.469	3.75	5
28	F	Y	-5.469	-.197	5	6.25
29	M68	Y	-.057	-1.596	5	6.5
30	M68	Y	-1.596	-8.036	6.5	8
31	M68	Y	-8.036	-13.034	8	9.5
32	M68	Y	-13.034	-6.878	9.5	11
33	M68	Y	-6.878	-.057	11	12.5
34	M76B	Y	-1.97	-1.97	0	.5
35	M77B	Y	-.002	-.002	.325	.833
36	M75B	Y	-.31	-.896	0	.088
37	M75B	Y	-.896	-1.423	.088	.175
38	M75B	Y	-1.423	-1.887	.175	.263
39	M75B	Y	-1.887	-1.739	.263	.351
40	M75B	Y	-1.739	-.982	.351	.438
41	M93	Y	-46.444	-46.444	0	.042
42	M95	Y	-43.873	-43.873	0	.042
43	M96	Y	-4.037	-4.037	0	.812
44	M97	Y	-4.513	-4.037	0	.552
45	M98	Y	-13.512	-13.512	.104	.245
46	M117	Y	-11.927	-11.927	0	.029
47	M122	Y	-13.918	-13.918	0	.024
48	M125	Y	-1.791	-9.444	0	1.025
49	M125	Y	-9.444	-15.834	1.025	2.05
50	M125	Y	-15.834	-14.736	2.05	3.075
51	M125	Y	-14.736	-7.126	3.075	4.1
52	M125	Y	-7.126	-.637	4.1	5.125
53	M50	Y	-.135	-5.001	0	1.25
54	M50	Y	-5.001	-12.455	1.25	2.5
55	M50	Y	-12.455	-12.378	2.5	3.75
56	M50	Y	-12.378	-5.598	3.75	5
57	M50	Y	-5.598	-.135	5	6.25

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	F	Y	-.202	-4.815	6.25	7.5
59	F	Y	-4.815	-12.03	7.5	8.75
60	F	Y	-12.03	-12.535	8.75	10
61	F	Y	-12.535	-4.307	10	11.25
62	F	Y	-4.307	-.202	11.25	12.5
63	M75	Y	-.719	-4.815	0	.5
64	M75A	Y	-1.213	-4.815	0	.5
65	M85	Y	-23.861	-23.861	0	.042
66	M87	Y	-73.379	-73.379	0	.042
67	M88	Y	-4.053	-4.053	0	.812
68	M89	Y	-4.852	-4.852	0	.473
69	M90	Y	-14.267	-14.267	.151	.276
70	M114	Y	-1.993	-8.26	0	1.025
71	M114	Y	-8.26	-13.791	1.025	2.05
72	M114	Y	-13.791	-14.519	2.05	3.075
73	M114	Y	-14.519	-8.427	3.075	4.1
74	M114	Y	-8.427	-.649	4.1	5.125

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-.035	-.102	0	.406
2	M5	Y	-.102	-.169	.406	.812
3	M7	Y	-.016	-.214	0	1.025
4	M7	Y	-.214	-.307	1.025	2.05
5	M7	Y	-.307	-.282	2.05	3.075
6	M7	Y	-.282	-.194	3.075	4.1
7	M7	Y	-.194	-.016	4.1	5.125
8	M50	Y	-.002	-.113	6.25	7.5
9	M50	Y	-.113	-.271	7.5	8.75
10	M50	Y	-.271	-.266	8.75	10
11	M50	Y	-.266	-.098	10	11.25
12	M50	Y	-.098	-.002	11.25	12.5
13	M68	Y	-.003	-.118	0	1.25
14	M68	Y	-.118	-.305	1.25	2.5
15	M68	Y	-.305	-.27	2.5	3.75
16	M68	Y	-.27	-.096	3.75	5
17	M68	Y	-.096	-.003	5	6.25
18	M76C	Y	-.025	-.118	0	.5
19	M76D	Y	-.019	-.118	0	.613
20	M78	Y	-.95	-.95	0	.042
21	M80	Y	-.088	-.088	0	.552
22	M82	Y	-.926	-.926	0	.042
23	M83	Y	-.655	-.655	.139	.183
24	M50	Y	-.003	-.11	0	1.25
25	M50	Y	-.11	-.275	1.25	2.5
26	M50	Y	-.275	-.273	2.5	3.75
27	M50	Y	-.273	-.124	3.75	5
28	M50	Y	-.124	-.003	5	6.25
29	F	Y	-.004	-.106	6.25	7.5
30	F	Y	-.106	-.266	7.5	8.75
31	F	Y	-.266	-.277	8.75	10
32	F	Y	-.277	-.095	10	11.25
33	F	Y	-.095	-.004	11.25	12.5
34	M75	Y	-.016	-.106	0	.5
35	M75A	Y	-.027	-.106	0	.5
36	M85	Y	-.527	-.527	0	.042

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	M87	Y	-1.62	-1.62	0	.042
38	M88	Y	-.09	-.09	0	.812
39	M89	Y	-.107	-.107	0	.473
40	M90	Y	-.315	-.315	.151	.276
41	M114	Y	-.044	-.182	0	1.025
42	M114	Y	-.182	-.305	1.025	2.05
43	M114	Y	-.305	-.321	2.05	3.075
44	M114	Y	-.321	-.186	3.075	4.1
45	M114	Y	-.186	-.014	4.1	5.125
46	F	Y	-.002	-.096	0	1.25
47	F	Y	-.096	-.304	1.25	2.5
48	F	Y	-.304	-.294	2.5	3.75
49	F	Y	-.294	-.097	3.75	5
50	F	Y	-.097	-.002	5	6.25
51	M68	Y	-.002	-.115	6.25	7.5
52	M68	Y	-.115	-.29	7.5	8.75
53	M68	Y	-.29	-.274	8.75	10
54	M68	Y	-.274	-.089	10	11.25
55	M68	Y	-.089	-.002	11.25	12.5
56	M76B	Y	-.05	-.05	0	.5
57	M75B	Y	-.042	-.042	.053	.438
58	M93	Y	-.702	-.702	0	.042
59	M95	Y	-1.567	-1.567	0	.042
60	M96	Y	-.091	-.091	0	.812
61	M97	Y	-.067	-.091	0	.552
62	M98	Y	-.046	-.046	0	.552
63	M122	Y	-.208	-.208	0	.024
64	M125	Y	-.081	-.206	0	1.025
65	M125	Y	-.206	-.271	1.025	2.05
66	M125	Y	-.271	-.287	2.05	3.075
67	M125	Y	-.287	-.206	3.075	4.1
68	M125	Y	-.206	-.018	4.1	5.125

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M5	Z	-.088	-.255	0	.406
2	M5	Z	-.255	-.423	.406	.812
3	M7	Z	-.04	-.536	0	1.025
4	M7	Z	-.536	-.767	1.025	2.05
5	M7	Z	-.767	-.706	2.05	3.075
6	M7	Z	-.706	-.484	3.075	4.1
7	M7	Z	-.484	-.04	4.1	5.125
8	M50	Z	-.006	-.283	6.25	7.5
9	M50	Z	-.283	-.676	7.5	8.75
10	M50	Z	-.676	-.666	8.75	10
11	M50	Z	-.666	-.244	10	11.25
12	M50	Z	-.244	-.006	11.25	12.5
13	M68	Z	-.006	-.294	0	1.25
14	M68	Z	-.294	-.762	1.25	2.5
15	M68	Z	-.762	-.676	2.5	3.75
16	M68	Z	-.676	-.24	3.75	5
17	M68	Z	-.24	-.006	5	6.25
18	M76C	Z	-.062	-.294	0	.5
19	M76D	Z	-.048	-.294	0	.613
20	M78	Z	-2.374	-2.374	0	.042
21	M80	Z	-.221	-.221	0	.552

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M82	Z	-2.316	-2.316	0	.042
23	M83	Z	-1.639	-1.639	.139	.183
24	M50	Z	-.007	-.276	0	1.25
25	M50	Z	-.276	-.688	1.25	2.5
26	M50	Z	-.688	-.683	2.5	3.75
27	M50	Z	-.683	-.309	3.75	5
28	M50	Z	-.309	-.007	5	6.25
29	F	Z	-.011	-.266	6.25	7.5
30	F	Z	-.266	-.664	7.5	8.75
31	F	Z	-.664	-.692	8.75	10
32	F	Z	-.692	-.238	10	11.25
33	F	Z	-.238	-.011	11.25	12.5
34	M75	Z	-.04	-.266	0	.5
35	M75A	Z	-.067	-.266	0	.5
36	M85	Z	-1.317	-1.317	0	.042
37	M87	Z	-4.051	-4.051	0	.042
38	M88	Z	-.224	-.224	0	.812
39	M89	Z	-.268	-.268	0	.473
40	M90	Z	-.788	-.788	.151	.276
41	M114	Z	-.11	-.456	0	1.025
42	M114	Z	-.456	-.761	1.025	2.05
43	M114	Z	-.761	-.802	2.05	3.075
44	M114	Z	-.802	-.465	3.075	4.1
45	M114	Z	-.465	-.036	4.1	5.125
46	F	Z	-.005	-.241	0	1.25
47	F	Z	-.241	-.76	1.25	2.5
48	F	Z	-.76	-.734	2.5	3.75
49	F	Z	-.734	-.242	3.75	5
50	F	Z	-.242	-.005	5	6.25
51	M68	Z	-.005	-.286	6.25	7.5
52	M68	Z	-.286	-.725	7.5	8.75
53	M68	Z	-.725	-.684	8.75	10
54	M68	Z	-.684	-.223	10	11.25
55	M68	Z	-.223	-.005	11.25	12.5
56	M76B	Z	-.126	-.126	0	.5
57	M75B	Z	-.105	-.105	.053	.438
58	M93	Z	-1.756	-1.756	0	.042
59	M95	Z	-3.917	-3.917	0	.042
60	M96	Z	-.228	-.228	0	.812
61	M97	Z	-.167	-.228	0	.552
62	M98	Z	-.115	-.115	0	.552
63	M122	Z	-.52	-.52	0	.024
64	M125	Z	-.204	-.514	0	1.025
65	M125	Z	-.514	-.678	1.025	2.05
66	M125	Z	-.678	-.719	2.05	3.075
67	M125	Z	-.719	-.515	3.075	4.1
68	M125	Z	-.515	-.045	4.1	5.125

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M5	X	.088	.255	0	.406
2	M5	X	.255	.423	.406	.812
3	M7	X	.04	.536	0	1.025
4	M7	X	.536	.767	1.025	2.05
5	M7	X	.767	.706	2.05	3.075
6	M7	X	.706	.484	3.075	4.1

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	M7	X	.484	.04	4.1	5.125
8	M50	X	.006	.283	6.25	7.5
9	M50	X	.283	.676	7.5	8.75
10	M50	X	.676	.666	8.75	10
11	M50	X	.666	.244	10	11.25
12	M50	X	.244	.006	11.25	12.5
13	M68	X	.006	.294	0	1.25
14	M68	X	.294	.762	1.25	2.5
15	M68	X	.762	.676	2.5	3.75
16	M68	X	.676	.24	3.75	5
17	M68	X	.24	.006	5	6.25
18	M76C	X	.062	.294	0	.5
19	M76D	X	.048	.294	0	.613
20	M78	X	2.374	2.374	0	.042
21	M80	X	.221	.221	0	.552
22	M82	X	2.316	2.316	0	.042
23	M83	X	1.639	1.639	.139	.183
24	M50	X	.007	.276	0	1.25
25	M50	X	.276	.688	1.25	2.5
26	M50	X	.688	.683	2.5	3.75
27	M50	X	.683	.309	3.75	5
28	M50	X	.309	.007	5	6.25
29	F	X	.011	.266	6.25	7.5
30	F	X	.266	.664	7.5	8.75
31	F	X	.664	.692	8.75	10
32	F	X	.692	.238	10	11.25
33	F	X	.238	.011	11.25	12.5
34	M75	X	.04	.266	0	.5
35	M75A	X	.067	.266	0	.5
36	M85	X	1.317	1.317	0	.042
37	M87	X	4.051	4.051	0	.042
38	M88	X	.224	.224	0	.812
39	M89	X	.268	.268	0	.473
40	M90	X	.788	.788	.151	.276
41	M114	X	.11	.456	0	1.025
42	M114	X	.456	.761	1.025	2.05
43	M114	X	.761	.802	2.05	3.075
44	M114	X	.802	.465	3.075	4.1
45	M114	X	.465	.036	4.1	5.125
46	F	X	.005	.241	0	1.25
47	F	X	.241	.76	1.25	2.5
48	F	X	.76	.734	2.5	3.75
49	F	X	.734	.242	3.75	5
50	F	X	.242	.005	5	6.25
51	M68	X	.005	.286	6.25	7.5
52	M68	X	.286	.725	7.5	8.75
53	M68	X	.725	.684	8.75	10
54	M68	X	.684	.223	10	11.25
55	M68	X	.223	.005	11.25	12.5
56	M76B	X	.126	.126	0	.5
57	M75B	X	.105	.105	.053	.438
58	M93	X	1.756	1.756	0	.042
59	M95	X	3.917	3.917	0	.042
60	M96	X	.228	.228	0	.812
61	M97	X	.167	.228	0	.552
62	M98	X	.115	.115	0	.552
63	M122	X	.52	.52	0	.024

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	M125	X	.204	.514	0	1.025
65	M125	X	.514	.678	1.025	2.05
66	M125	X	.678	.719	2.05	3.075
67	M125	X	.719	.515	3.075	4.1
68	M125	X	.515	.045	4.1	5.125

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	Y	Two Way	-.005
2	N146B	N150	N163	N171	Y	Two Way	-.005
3	N148A	N144C	N175	N183	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N160	N146C	N148B	N153	Y	Two Way	-.01
2	N185	N175	N183	N148A	Y	Two Way	-.01
3	N146B	N150	N163	N171	Y	Two Way	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	Y	Two Way	-.000222
2	N146B	N150	N163	N171	Y	Two Way	-.000222
3	N148A	N144C	N175	N183	Y	Two Way	-.000222

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	Z	Two Way	-.000555
2	N146B	N150	N163	N171	Z	Two Way	-.000555
3	N148A	N144C	N175	N183	Z	Two Way	-.000555

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	X	Two Way	.000555
2	N146B	N150	N163	N171	X	Two Way	.000555
3	N148A	N144C	N175	N183	X	Two Way	.000555

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	N1	max	1341.215	10	2159.674	13	-747.358	1	9.571	13	1.588	4	1.477	4
2		min	-1320.097	4	656.498	70	-4897.075	19	2.676	7	-1.556	10	-1.392	10
3	N3	max	4220.98	22	2289.284	17	2820.576	13	-.38	1	1.83	8	8.609	16
4		min	729.129	5	688.928	74	-692.211	7	-5.39	19	-1.796	2	2.318	10
5	N5	max	-459.505	11	2165.367	21	2544.433	24	-.559	1	1.584	12	-2.155	4
6		min	-4347.162	17	657.987	66	-78.197	6	-5.103	19	-1.558	6	-8.363	22
7	Totals:	max	3480.114	10	6468.127	16	3785.9	1						
8		min	-3480.107	4	2034.013	73	-3785.909	7						

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

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc...	...	...	phi*P...	phi*P...	phi*M...	phi*M...	...	Eqn
1	M1	HSS4X4...	1.023	0	15	.235	0	z	4	74075...	83592	9.909	9.909	...	H1-1b
2	M2	HSS4X4...	1.069	0	19	.262	0	z	8	74075...	83592	9.909	9.909	...	H1-1b
3	M3	HSS4X4...	1.023	0	23	.241	0	z	6	74075...	83592	9.909	9.909	...	H1-1b
4	M5	PL3/8x5	1.530	.406	20	1.026	.406	y	13	39664...	60750	.475	6.328	...	H1-1b
5	M7	C6X8.2	.060	2.562	8	.062	2.5...	y	1	38740...	77436	2.108	13.932	...	H1-1b
6	M50	C6X8.2	.601	.26	4	.639	3.1...	y	11	6897....	77436	2.108	9.506	...	H1-1b
7	MP1B	PIPE_2.0	.317	5.104	3	.032	3.4...		11	12830...	32130	1.872	1.872	...	H1-1b
8	MP2B	PIPE_2....	.260	4.156	3	.036	2.4...		12	23929...	44100	2.531	2.531	...	H1-1b
9	MP3B	PIPE_2....	.026	4.156	11	.002	4.1...		11	23929...	44100	2.531	2.531	...	H1-1b
10	MP4B	PIPE_2.0	.158	5.104	9	.031	5.1...		8	12830...	32130	1.872	1.872	...	H1-1b
11	F	C6X8.2	.687	.26	1	.718	3.1...	y	7	6897....	77436	2.108	8.189	...	H1-1b
12	MP1A	PIPE_2.0	.322	5.104	12	.032	3.4...		2	12830...	32130	1.872	1.872	...	H1-1b
13	MP2A	PIPE_2....	.267	4.156	12	.036	4.2...		9	23929...	44100	2.531	2.531	...	H1-1b
14	MP3A	PIPE_2....	.026	4.156	7	.002	4.1...		7	23929...	44100	2.531	2.531	...	H1-1b
15	MP4A	PIPE_2.0	.161	5.104	6	.031	5.1...		5	12830...	32130	1.872	1.872	...	H1-1b
16	M68	C6X8.2	.600	.26	8	.639	3.1...	y	3	6897....	77436	2.108	9.662	...	H1-1b
17	MP1C	PIPE_2.0	.317	5.104	7	.032	3.4...		3	12830...	32130	1.872	1.872	...	H1-1b
18	MP2C	PIPE_2....	.260	4.156	7	.036	2.4...		4	23929...	44100	2.531	2.531	...	H1-1b
19	MP3C	PIPE_2....	.026	4.156	3	.002	4.1...		3	23929...	44100	2.531	2.531	...	H1-1b
20	MP4C	PIPE_2.0	.158	5.104	1	.031	5.1...		12	12830...	32130	1.872	1.872	...	H1-1b
21	M76A	PIPE_2.0	.102	3.087	6	.012	3.0...		6	28661...	32130	1.872	1.872	...	H1-1b
22	M77	PL3/8x5	.161	.121	2	.462	.121	y	7	38787...	60750	.475	6.328	...	H1-1b
23	M75	PL3/8x5	.056	0	12	.064	0	y	3	51678...	60750	.475	6.328	...	H1-1b
24	M76B	PL3/8x5	.084	.354	2	.054	.354	y	11	51678...	60750	.475	6.328	...	H1-1b
25	M77A	PL3/8x5	.144	.711	6	.410	.711	y	11	38787...	60750	.475	6.328	...	H1-1b
26	M75A	PL3/8x5	.078	.354	6	.054	.354	y	3	51678...	60750	.475	6.328	...	H1-1b
27	M76C	PL3/8x5	.057	0	3	.066	0	y	7	51678...	60750	.475	6.328	...	H1-1b
28	M77B	PL3/8x5	.146	.121	10	.413	.121	y	3	38787...	60750	.475	6.328	...	H1-1b
29	M75B	PL3/8x5	.072	0	7	.067	0	y	11	53654...	60750	.475	6.15	...	H1-1b
30	M76D	PL3/8x5	.078	.358	10	.055	.358	y	7	47644...	60750	.475	6.328	...	H1-1b
31	M80	PL3/8x5	.806	.552	17	.601	.552	y	10	49885...	60750	.475	6.328	...	H1-1b
32	M83	PL3/8x5	.813	.552	20	1.715	.552	y	2	49885...	60750	.475	6.328	...	H1-1b
33	M88	PL3/8x5	1.528	.406	16	1.019	.406	y	21	39664...	60750	.475	6.328	...	H1-1b
34	M89	PL3/8x5	.811	.552	13	.753	.552	y	7	49885...	60750	.475	6.328	...	H1-1b
35	M90	PL3/8x5	.813	.552	17	1.715	.552	y	10	49885...	60750	.475	6.328	...	H1-1b
36	M96	PL3/8x5	1.539	.406	13	1.035	.406	y	19	39664...	60750	.475	6.328	...	H1-1b
37	M97	PL3/8x5	.813	.552	20	.597	.552	y	2	49885...	60750	.475	6.328	...	H1-1b
38	M98	PL3/8x5	.822	.552	13	1.905	.552	y	7	49885...	60750	.475	6.328	...	H1-1b
39	M114	C6X8.2	.057	2.562	4	.061	2.5...	y	9	38740...	77436	2.108	13.932	...	H1-1b
40	M125	C6X8.2	.062	2.562	1	.059	5.1...	y	5	38740...	77436	2.108	13.932	...	H1-1b

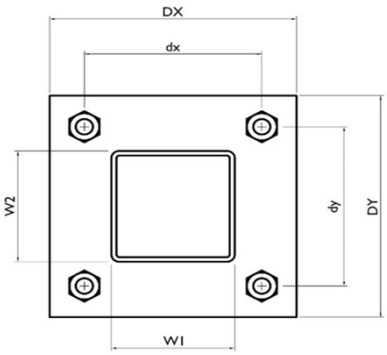
VzW SMART Tool© Vendor

Client:	VERIZON WIRELSS	Date:	11/10/2022
Site Name:	OXFORD W CT		
PSLC #:	467421		
Fuze ID #:	16272032	Page:	1

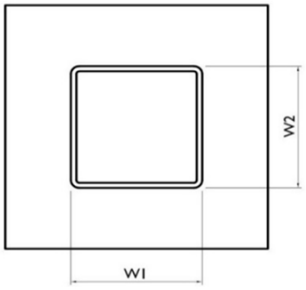
Version 1.01

I. Mount-to-Tower Connection Check

Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	6
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	1.3
Required Shear Strength / bolt (kips):	7.9
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	**63.3%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	11.5
Plate Height, D_y (in):	11.5
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.25
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.625
Length of Yield Line, L_y (in):	6.34
Bolt Eccentricity, e (in):	1.65
M_u (kip-in):	14.77
Phi*M_n (kip-in):	20.04
Plate Bending Utilization:	**73.7%**

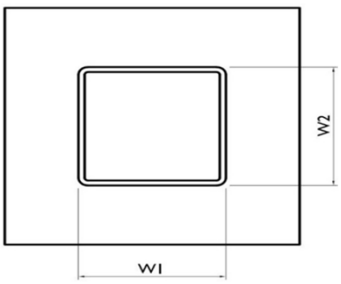


VzW SMART Tool© Vendor

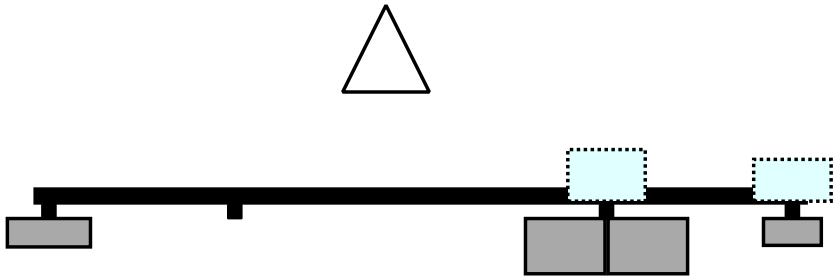
Client:	VERIZON WIRELSS	Date:	11/10/2022
Site Name:	OXFORD W CT		
PSLC #:	467421		
Fuze ID #:	16272032	Page:	2

Version 1.01

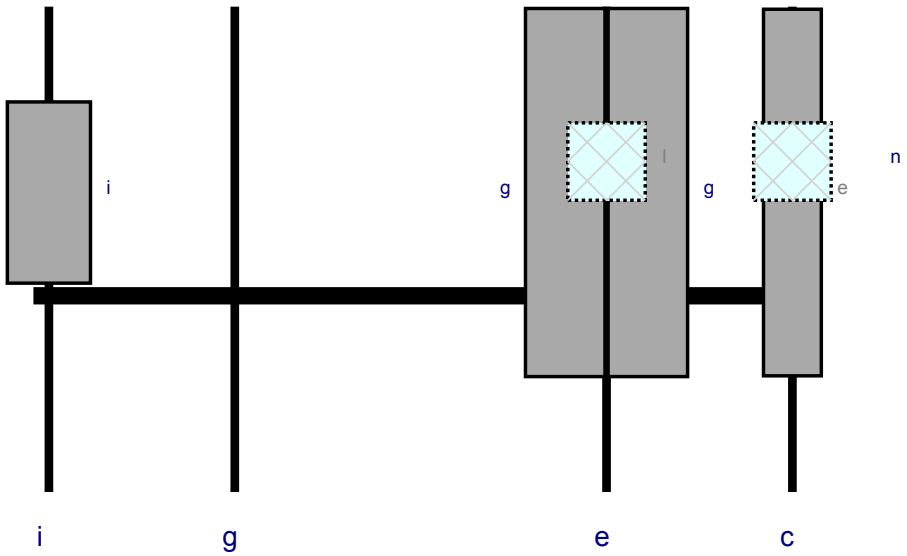
Tower Connection Weld Checks	Yes
Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Weld Size (1/16 in):	4
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	16.00
Z_x (in^3/in):	21.33
Z_y (in^3/in):	21.33
J_p (in^4/in):	85.33
c_x (in)	2.25
c_y (in)	2.25
Required combined strength (kip/in):	3.82
Weld Capacity (kip/in):	5.57
Weld Utilization:	**68.6%**



Plan View



Front View - 0 0



0 F0

4	: A	: A	0 F	4	0	0 F	0
e EoSSngEn Ee	oc	ccFe	ci o	c		gn	S
n l l cg0 E Si	cl	cl	ci o	c		gS	S
g Sn nnSESg	ocFg	cl Ff	ccc	e		gn	p
g Sn nnSESg	ocFg	cl Ff	ccc	e		gn	Ep
l el nn 0 E Si u	cl	cl	ccc	e		gS	S
i ni SoEEo	gl Fc	cnFc	g	i		gn	S
on EnneoE Ei p	euFf	cnFf					

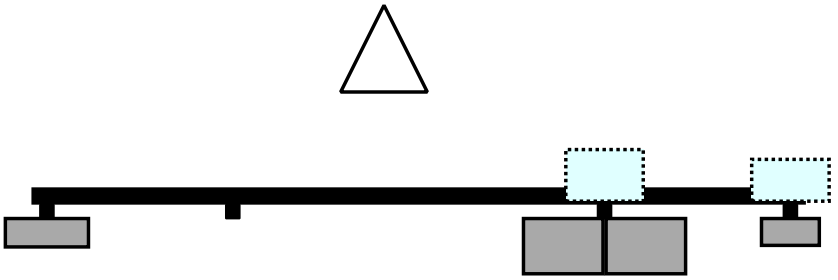
Structure: 467421-VZW - OXFORD W CT

v **B** cclcSleSee

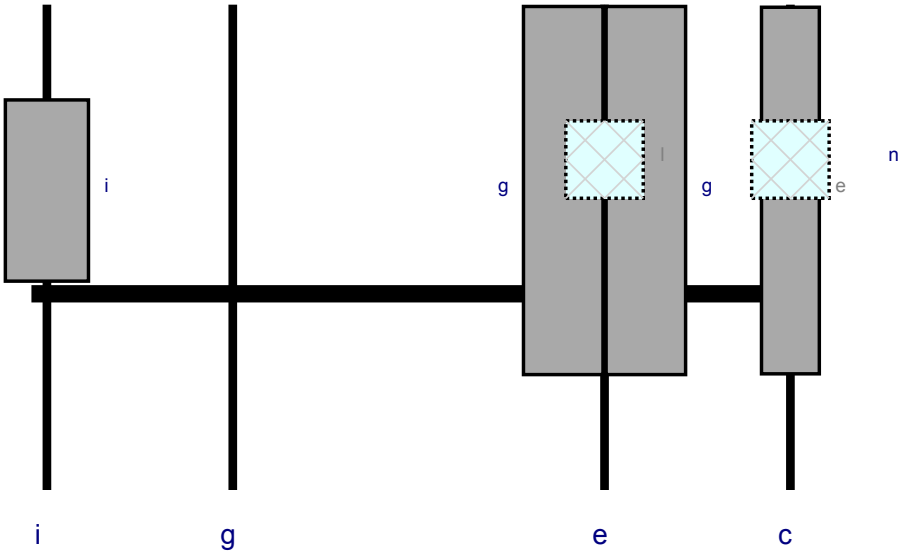
0 v cScoupSe

0 v cgpFf S v0e

Plan View



Front View - 0 0

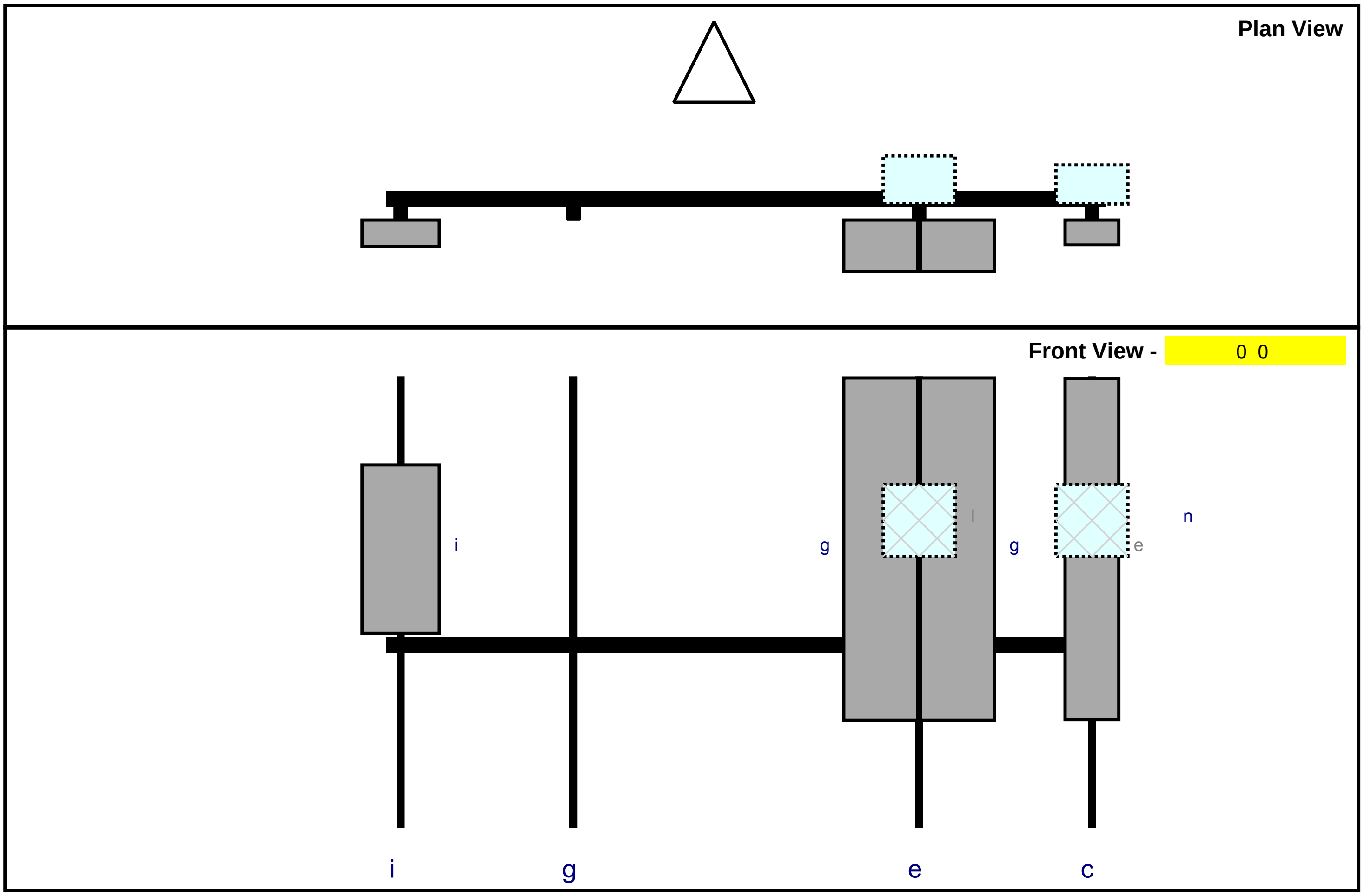


0 F0

4	: A	: A	0 F	4	0	0 F	0
e EoSSngEn Ee	oc	ccFe	ci o	c		gn	S
n l l cg0 E Si	cl	cl	ci o	c		gS	S
g Sn nnSESg	ocFg	cl Ff	ccc	e		gn	p
g Sn nnSESg	ocFg	cl Ff	ccc	e		gn	Ep
l el nn 0 E Si u	cl	cl	ccc	e		gS	S
i ni SoEoo	gl Fc	cnFc	g	i		gn	S

Structure: 467421-VZW - OXFORD W CT

v	**C**		cclcSleSee
0	v	cScoupSe	
0	v	cgpFF S	vOg



				0			F0	
4		: A	: A	0 F	4	0	0 F	0
e	EoSSngEn Ee	oc	ccFe	ci o	c		gn	S
n	l l cg0 E Si	cl	cl	ci o	c		gS	S
g	Sn nnSESg	ocFg	cl Fr	ccc	e		gn	p
g	Sn nnSESg	ocFg	cl Fr	ccc	e		gn	Ep
l	el nn 0 E Si u	cl	cl	ccc	e		gS	S
i	ni SoEoo	gl Fc	cnFc	g	i		gn	S

Exhibit F

Power Density/RF Emissions Report

Site Name: ***OXFORD W 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	623	2494	140	0.0046	0.5007	0.91%
VZW CDMA	877.26	2	499	998	140	0.0018	0.5848	0.31%
VZW Cellular	874	4	623	2494	140	0.0046	0.5827	0.79%
VZW PCS	1975	4	1476	5903	140	0.0108	1.0000	1.08%
VZW AWS	2120	4	1640	6559	140	0.0120	1.0000	1.20%
VZW CBAND	3730.08	2	13335	26670	140	0.0489	1.0000	4.89%
Total Percentage of Maximum Permissible Exposure								9.19%

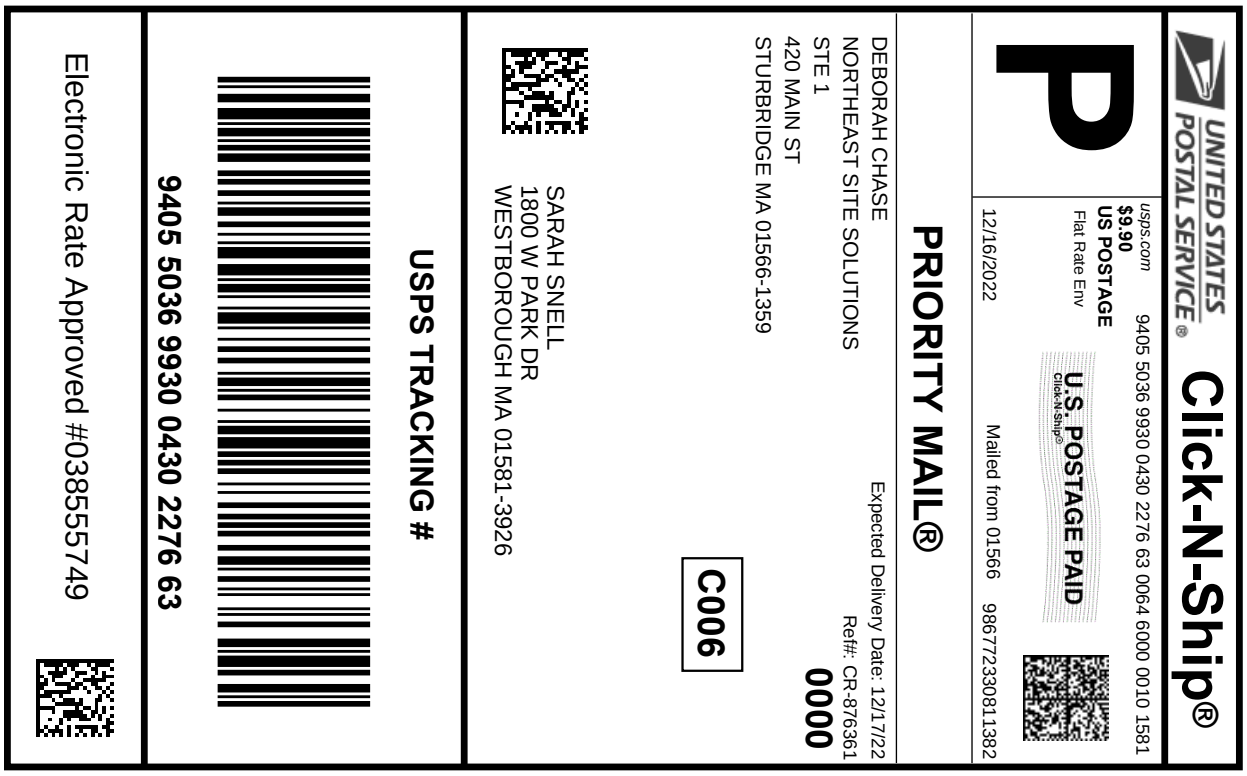
*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Exhibit G

Recipient Mailings



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0430 2276 63

Trans. #:	578392664
Print Date:	12/16/2022
Ship Date:	12/16/2022
Expected Delivery Date:	12/17/2022

Priority Mail® Postage:	**$9.90**
Total:	**$9.90**

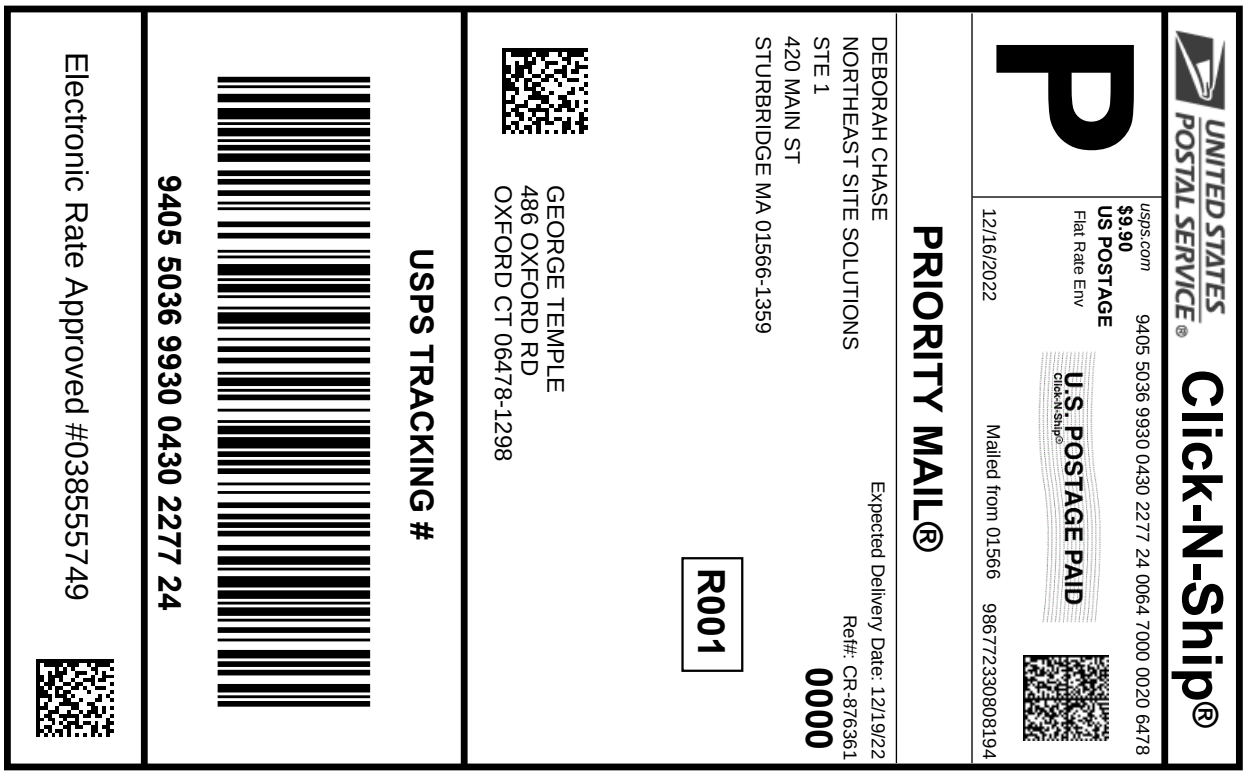
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
STE 1
420 MAIN ST
STURBRIDGE MA 01566-1359

Ref#: CR-876361

To: SARAH SNELL
1800 W PARK DR
WESTBOROUGH MA 01581-3926

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com



Cut on dotted line.

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0430 2277 24

Trans. #:	578392664
Print Date:	12/16/2022
Ship Date:	12/16/2022
Expected Delivery Date:	12/19/2022

Priority Mail® Postage:	**$9.90**
Total:	**$9.90**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
STE 1
420 MAIN ST
STURBRIDGE MA 01566-1359

Ref#: CR-876361

To: GEORGE TEMPLE
486 OXFORD RD
OXFORD CT 06478-1298

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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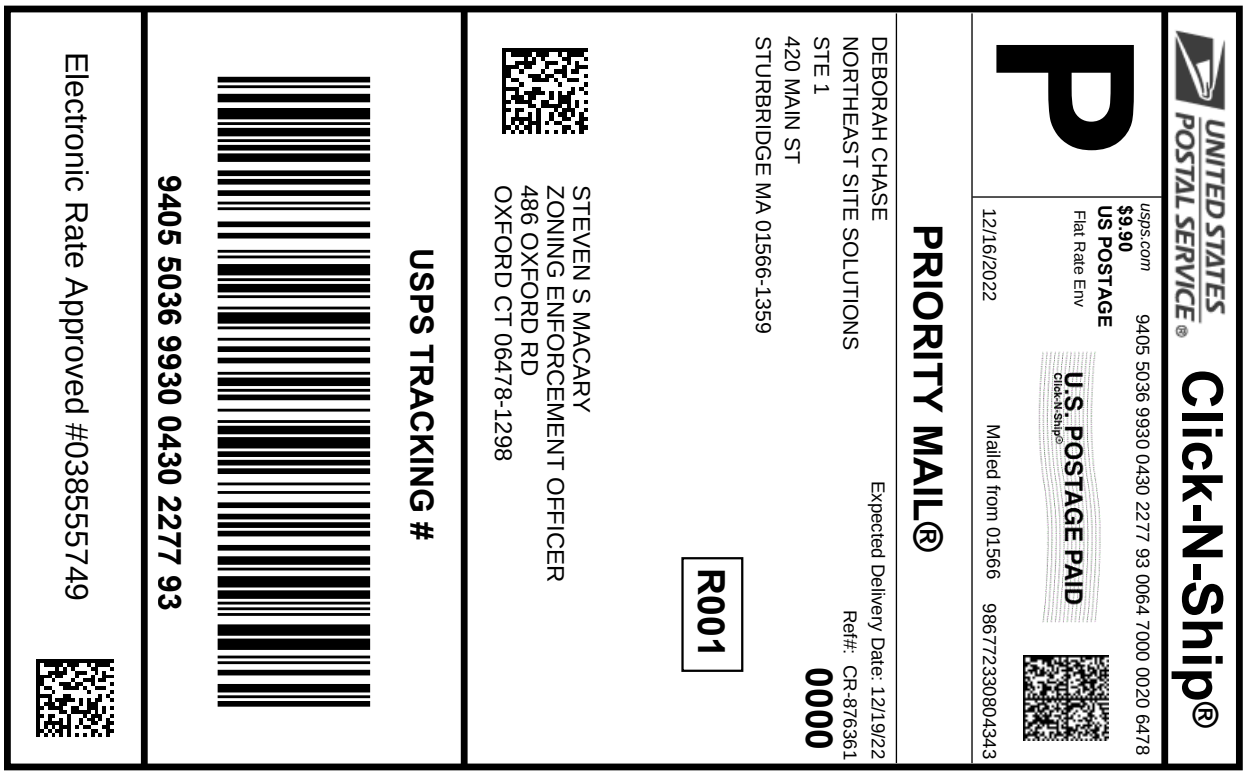

Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
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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.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0430 2277 93

Trans. #:	578392664
Print Date:	12/16/2022
Ship Date:	12/16/2022
Expected Delivery Date:	12/19/2022

Priority Mail® Postage:	**$9.90**
Total:	**$9.90**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
STE 1
420 MAIN ST
STURBRIDGE MA 01566-1359

Ref#: CR-876361

To: STEVEN S MACARY
ZONING ENFORCEMENT OFFICER
486 OXFORD RD
OXFORD CT 06478-1298

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com

CR-876361
OXFORD

UNITED STATES POSTAL SERVICE.

LINCOLN MALL
560 LINCOLN ST STE 8
WORCESTER, MA 01605-1925
(800)275-8777

12/19/2022 02:11 PM

Product	Qty	Unit Price	Price
Prepaid Mail Oxford, CT 06478 Weight: 1 lb 5.30 oz Acceptance Date: Mon 12/19/2022 Tracking #: 9405 5036 9930 0430 2277 93	1		$0.00
Prepaid Mail Oxford, CT 06478 Weight: 1 lb 5.40 oz Acceptance Date: Mon 12/19/2022 Tracking #: 9405 5036 9930 0430 2277 24	1		$0.00
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 2.00 oz Acceptance Date: Mon 12/19/2022 Tracking #: 9405 5036 9930 0430 2276 63	1		$0.00
Grand Total:			$0.00

Text your tracking number to 28777 (2USPS) to get the latest status. Standard Message and Data rates may apply. You may also visit www.usps.com USPS Tracking or call 1-800-222-1811.

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Tell us about your experience.
Go to: https://postalexperience.com/Pos
or scan this code with your mobile device,

or call 1-800-410-7420.

UFN: 249632-1106
Receipt #: 840-50180078-2-4809489-1
Clerk: 17