NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

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

October 28, 2021

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

RE: Exempt Modification Application
33 Janoski Road, Ashford CT 06278
Latitude: 41.952139
Longitude: -72.195528
Site#: 876345_ Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 33 Janoski Road, Ashford CT 06278. Verizon Wireless currently maintains fifteen (15) antennas at the 181-foot level of the existing 192-foot tower. The property is owned by Martin Family Living Trust and the tower is owned by Crown Castle. Verizon now intends to replace three (3) existing antenna with three (3) new antenna. The new antennas would be installed at the 181-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and **5G** capable.

Verizon Planned Modifications:
Remove:

Remove and Replace:
(3) XXDWMM-12.5-65-8T-CBRS 4CF Antenna (REMOVE)- (3) MT6407-77A Antenna (REPLACE)

Install New: NONE

Existing to Remain:
(6) JAHH-65B-R3B Antenna
(6) LPA 80080-4CF Antenna
(3) Samsung B2/B66A -BRO49 – RFV01U-D1A RRH
(3) Samsung B2/B66A -BRO49 – RFV01U-D1A RRH
(2) Raycap
(8) Coax
(1) Hybrid
(3) Diplexers
(1) 58532A GPS

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The facility was approved by the Town of Ashford Planning and Zoning Commission on November 12, 1996. Please see attached

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to Cathryn Silver-Smith, First Selectman, and Michael D'Amato, Zoning Enforcement Officer, for the Town of Ashford. A copy is also being sent to the tower owner, and property owner.

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

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

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

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

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

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

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

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

Sincerely,

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

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Attachments
cc:
Cathryn Silver-Smith, First Selectman
Ashford Town Hall
5 Town Hall Road, Ashford CT 06278

Michael D'Amato, Zoning Enforcement Officer
Ashford Town Hall
5 Town Hall Road, Ashford CT 06278

Martin Family Living Trust, Property Owner
33 Janoski Road Ashford, CT 06278

Crown Castle Tower Owner

Exhibit A

Original Facility Approval

FILE SITE #204
SKY HILL
ZONING

RECEIVED
11-13-96

MINUTES - ASHFORD PLANNING AND ZONING COMMISSION

Annual Meeting - November 12, 1996

Members present: Organ, Lawrence, Nagy, Levaur, Rossman, McCarthy & White.

Alternates present: Bartok & Specyalski.

The meeting was called to order at 9:55 p.m. after the public hearing (Sprint Spectrum, tower & Moratorium, Lake Chaffee).

Specyalski is the voting alternate for this meeting.

At the Annual Town meeting, Alex Hastillo and Kevin McCarthy were elected to 4 year terms on the Commission ending in the year 2000 and Bartok was elected to a 3 year term as Alternate ending in 1999.

Moved and seconded to consider Old and New Business first. Passed without dissent.

The Commission considered the Sprint Spectrum application for a communications tower to be located on Sky Hill. There were no objections at tonights public hearing. The tower will be able to hold three sets of antennas. Sprint Spectrum will operate a PCS digital system. It is regulated by the FCC. There will be no lights on the tower. Access will be off Frontage Road to Janowski Road to avoid the wetlands on the east end of Janowski Road. Moved and seconded to approve with conditions the application for a Special Exception under Section 5.2.3 by Sprint Spectrum L.P., Meriden, CT for a 200' communications tower to be located on land leased from David H. Martin off Janowski Road on Sky Hill.

The conditions are:
1. Utilities to the site which is approximately 2500' from Janowski Road will be located underground in the right of way.
2. Space and installation of fire, emergency and municipal communications equipment to meet present and future needs will be provided at no cost.
3. A copy of the liability insurance will be submitted to the Commission.
4. A site plan including driveway design and sedimentation and erosion control measures will be submitted to the Commission before the construction begins.
5. A copy of the lease will be part of the land records.

Motion passed without dissent.

The Commission considered the proposed Moratorium at Lake Chaffee. Tim Backus, Chairman of the Water Pollution Control Authority was the only person to speak at the public hearing. Moved and seconded to approve the following:

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Moratorium at Lake Chaffee

WHEREAS, the Department of Environmental Protection has cited the Town of Ashford and the Lake Chaffee Improvement Association, Inc. to study and report upon potential pollution at Lake Chaffee resulting from construction around the lake; and

WHEREAS, the Department of Environmental Protection has found pollution in the tributaries leading to the lake, and

WHEREAS, there is a reasonable expectation that the recommendation of the study may be to limit new construction in that area, or as an alterative to require that homes in the area be connected to an alternative type of sewage disposal system, and

WHEREAS, this Commission does not want to allow any deterioration of the water in the lake or tributaries;

The Planning and Zoning Commission of the Town of Ashford, pursuant to the authority vested in it by Section 8-2 of Connecticut General Statutes, hereby amends the zoning regulations of the Town of Ashford by adoption of the following Moratorium:

"Until December 31, 1997, there shall be no new house construction allowed within the area of Lake Chaffee Improvement Association, Inc. nor any enclosed addition to any existing house in that area. The Zoning Enforcement Officer may not in that period certify that any new construction is in conformity with the zoning regulations of the town."

Motion passed without dissent.

The reasons for reinstating the moratorium include:
1. There is need for more testing of the water and septic systems in the area.
2. There have been minimal applications for construction since the last moratorium was lifted.
3. The WPCA is seeking on-site solutions.
4. There are several sets of vacant lots that may be valuable for sewage disposal systems.

Specyalski stepped down for the next item of business.

Brialee Campground - Brian Specyalski submitted a plan for a six additional campsites at the campground. It was noted that three of these butt onto adjoining property that is owned by the State of Connecticut. The others have a 100' setback that has been the minimum acceptable to the Commission. Moved and seconded to receive the plan and hold a public hearing on December 9th. Passed without dissent. A new map showing only the three sites that meet the setback requirements will be submitted. The Commission will walk the site a 7 a.m. on Saturday November 16th.

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The Commission returned to the top of the agenda.

Moved and seconded to approve the minutes of the October 15th meeting. Passed without dissent.

Moved and seconded to send a letter of appreciation to George Quirk Sr., retiring member for his many years of service to the Commission. Passed without dissent.

There were no bills.

A copy of the revised Small Cities Housing Plan was received from the Office of the Selectmen. It will go to a public hearing in December. Copies will be distributed to the Commission members for review.

The revised fee schedule was approved by Town Meeting in October.

Moved and seconded to add to the agenda the election of officers and reappointment of employees. Passed without dissent.

Moved and seconded to reelect the following officers to serve until the next annual meeting of the Commission: Sidney E. Organ, Chairman, Alex Hastillo, Vice Chairman and John Bartok, Secretary. Passed without dissent. The Secretary will cast one ballot for each.

Moved and seconded to reappoint Rudolph Makray, Zoning Enforcement Officer and John Bartok, Recording Secretary for one year or until the next annual meeting. Passed without dissent.

The Commission agreed to hold a Special Meeting on Monday, December 16th at 7 p.m. to review the draft of the revised Plan of Development.

The meeting adjourned at 10:55 p.m.

Respectfully submitted.

John W. Bartok, Jr.
Recording Secretary

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LEGAL NOTICE

Town of Ashford

The Ashford Planning and Zoning Commission at its meeting on November 12, 1996 took the following aotions:

APPROVED with ooonditions the applioation of Sprint Speotrum, L.P., Meriden, CT for a 200' communioations tower to be built on the David Matin property looated off Route 89 on Sky Hill.

APPROVED a request by the Ashford Water Pollution Control Authority to reenstate the moratorium at Lake Chaffee until December 31, 1997 that prohibits oonstruction of new houses or enolosed additions to any existing house.

Dated in Ashford, Conneotiout this 14th day of November, 1996.

John W. Bartok,Jr.,Seo.
Ashford Planning and,
Zoning Commission

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Exhibit B

Property Card

33 JANOSKI RD

Location	33 JANOSKI RD	**Mblu**	02/ F/ 1.1/ /
Acct#	00007410	**Owner**	MARTIN FAMILY LIV TR DTD 6/20/05,
Taxable Status		**Assessment**	$252,200
Appraisal	$360,200	**PID**	65
Building Count	1	**Legal Description**	
Lot Type		**topoTopo**	
Location			

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2018	$0	$0	$183,100	$177,100	$360,200
Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2018	$0	$0	$128,200	$124,000	$252,200

Parcel Addreses

Additional Addresses		
Address	**City, State Zip**	**Type**
33 JANOSKI RD		Primary

Owner of Record

Owner	MARTIN FAMILY LIV TR DTD 6/20/05,	**Sale Price**	$0
Co-Owner	MARTIN DAVID H + CAROLYN TRUSTEES	**Certificate**	
Care Of		**Book & Page**	194/ 885
Address	C/O SPRINT SPECTRUM CT-03XC04 PO BOX 8430 KANSAS CITY, MO 64114-8430	**Sale Date**	10/15/2018
		Instrument	04
		Qualified	U

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**

MARTIN DAVID H	$0	C	109/ 811		09/30/1996

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:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Bsmt. Garages	

Building Photo

(http://images.vgsi.com/photos/AshfordCTPhotos//\00\00\25/30

Building Layout

Building Layout
(http://images.vgsi.com/photos/AshfordCTPhotos//Sketches/65_

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

Extra Features

Extra Features	Legend

No Data for Extra Features

Parcel Information

Use Code	201
Description	Commercial Vacant
Deeded Acres	0.7

Land

Land Use

Use Code	201
Description	Commercial Vacant
Zone	
Neighborhood	C3
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	0.7
Frontage	
Depth	
Assessed Value	$124,000
Appraised Value	$177,100

Outbuildings

Outbuildings								Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Assessed Value**	**Bldg #**	**Comment**
TWR1	Cell Tower			192 HEIGHT	$73,400	$51,400	1	
SHD2	Pre Cast Cell			240 S.F.	$34,400	$24,100	1	
FN3	Fence 6'			260 L.F.	$3,600	$2,500	1	
SHD2	Pre Cast Cell			360 S.F.	$34,400	$24,100	1	
SHD2	Pre Cast Cell			260 S.F.	$37,300	$26,100	1	

Valuation History

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2018	$0	$0	$183,100	$177,100	$360,200
2017	$0	$0	$183,100	$177,100	$360,200
2016	$0	$0	$183,100	$177,100	$360,200

Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2018	$0	$0	$128,200	$124,000	$252,200
2017	$0	$0	$128,200	$124,000	$252,200
2016	$0	$0	$128,200	$124,000	$252,200

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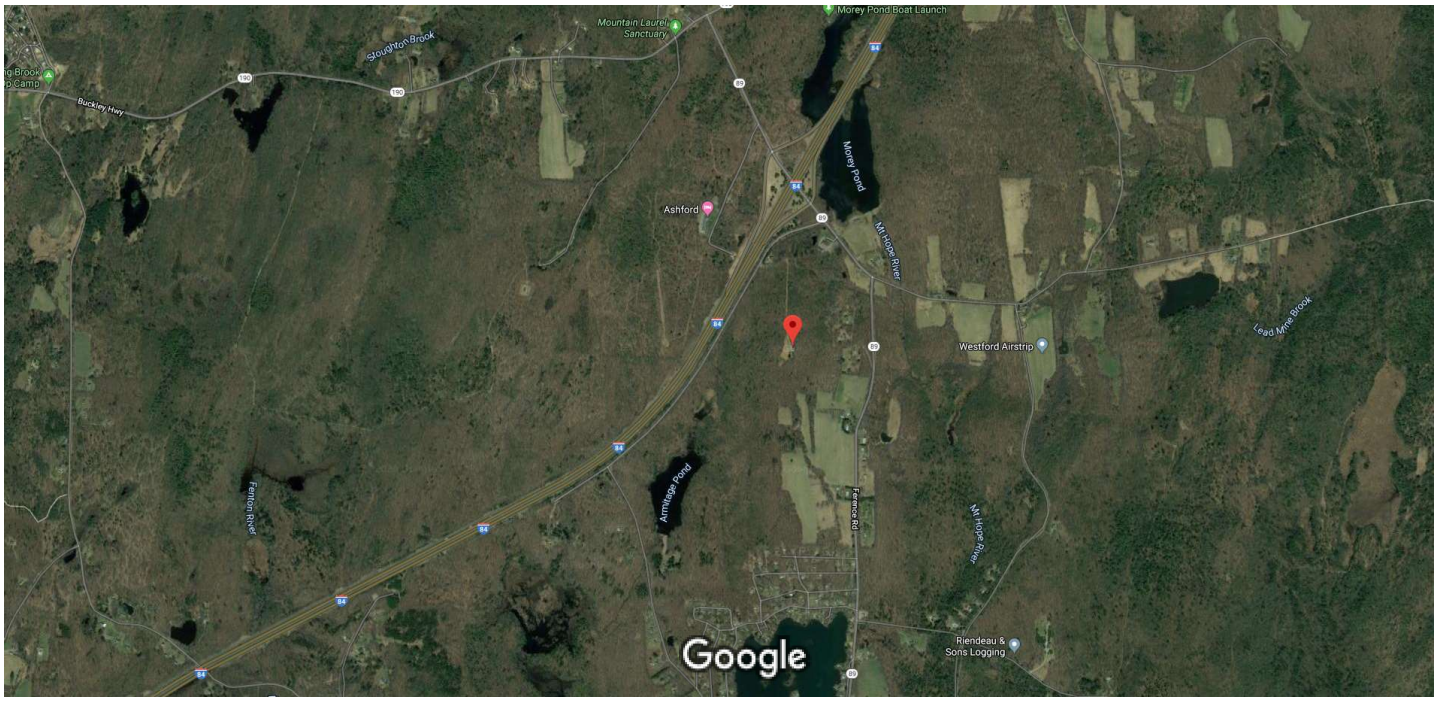
Google Maps

41°57'07.7"N 72°11'43.9"W

Crown Castle - tower location



Imagery ©2020 CNES / Airbus, MassGIS, Commonwealth of Massachusetts EOEA, Maxar Technologies, U.S. Geological Survey, USDA 1000 ft
Farm Service Agency, Map data ©2020

41°57'07.7"N 72°11'43.9"W

41.952139, -72.195528

Directions | Save | Nearby | Send to your phone | Share

Ashford School District, Ashford, CT 06278

XR23+VQ Ashford, Connecticut

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 467575
VERIZON SITE NAME: WESTFORD CT
SITE TYPE: SELF-SUPPORT TOWER
TOWER HEIGHT: 192'-0"

BUSINESS UNIT #: 876345
SITE ADDRESS: 33 JANOWSKI ROAD ASHFORD, CT 06278
COUNTY: WINDHAM
JURISDICTION: CONNECTICUT SITING COUNCIL

VERIZON 5G L-SUB6 - CARRIER ADD 16272060

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	SKY HILL
SITE ADDRESS:	33 JANOWSKI ROAD ASHFORD, CT 06278
COUNTY:	WINDHAM
MAP/PARCEL #:	CT-003-02-F-1
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.952139°
LONGITUDE:	-72.195528°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	1085'
CURRENT ZONING:	RA
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:	MARTIN FAMILY LIV TR DTD 6/20/05 310 BECKENHAM LA WINDSOR, CT 6095
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	NOT PROVIDED
TELCO PROVIDER:	NOT PROVIDED

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:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277 N/A - PROJECT MANAGER N/A - CONSTRUCTION MANAGER
VERIZON CONTACT:	TIMOTHY PARKS TIMOTHY.PARKS@VERIZONWIRELESS.COM

DRAWING INDEX

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

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 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.vzwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	10052227
VzW LOCATION CODE (PSLC)	16272060

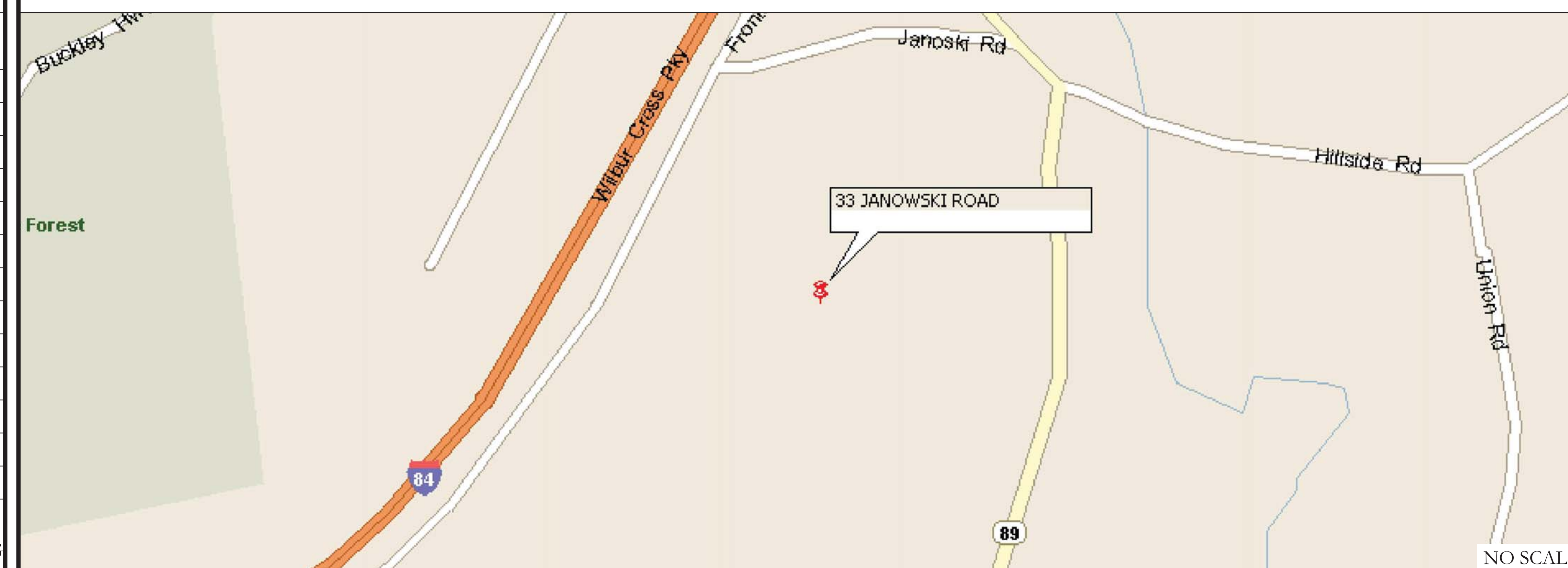
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	Y

VzW APPROVED SMART KIT VENDORS

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

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (BEDMINSTER, NJ 07921)
FOLLOW I-80 W AND I-90 W TO SD-34 W IN NORTH LAWRENCE. TAKE EXIT 23 FROM I-90 W, GET ON I-90 W/US-212 W/US-87 N IN CROW AGENCY, FOLLOW I-90 W TO SE 82ND ST IN KING COUNTY. TAKE EXIT 22 FROM I-90 W, TAKE PRESTON-FALL CITY RD SE AND WA-202 W/REDMOND-FALL CITY RD SE TO ARRIVED AT SKY HILL.

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:	CROWN CASTLE
DATED:	9/17/21
MOUNT ANALYSIS:	MASER CONSULTING CONNECTICUT
DATED:	8/30/21
RFDS REVISION:	N/A
DATED:	8/13/21
ORDER ID:	585797
REVISION:	0

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

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (6) 1-5/8" COAX CABLES
- INSTALL (3) ANTENNAS
- INSTALL (3) 96" LONG MOUNT PIPE

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:
467575

BU #: 876345
SKY HILL

33 JANOWSKI ROAD
ASHFORD, CT 06278

EXISTING 192'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/30/21	JJR	CONSTRUCTION	JJR

STATE OF CONNECTICUT No. 23824 LICENSED PROFESSIONAL ENGINEER 9/30/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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:	REVISION:
T-1	0

77921.015.01_SKY HILL.dwg – Sheet:T-1 – User: jrichardson – Sep 30, 2021 – 8:19pm

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:
467575

BU #: **876345**
SKY HILL

33 JANOWSKI ROAD
ASHFORD, CT 06278

EXISTING 192'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

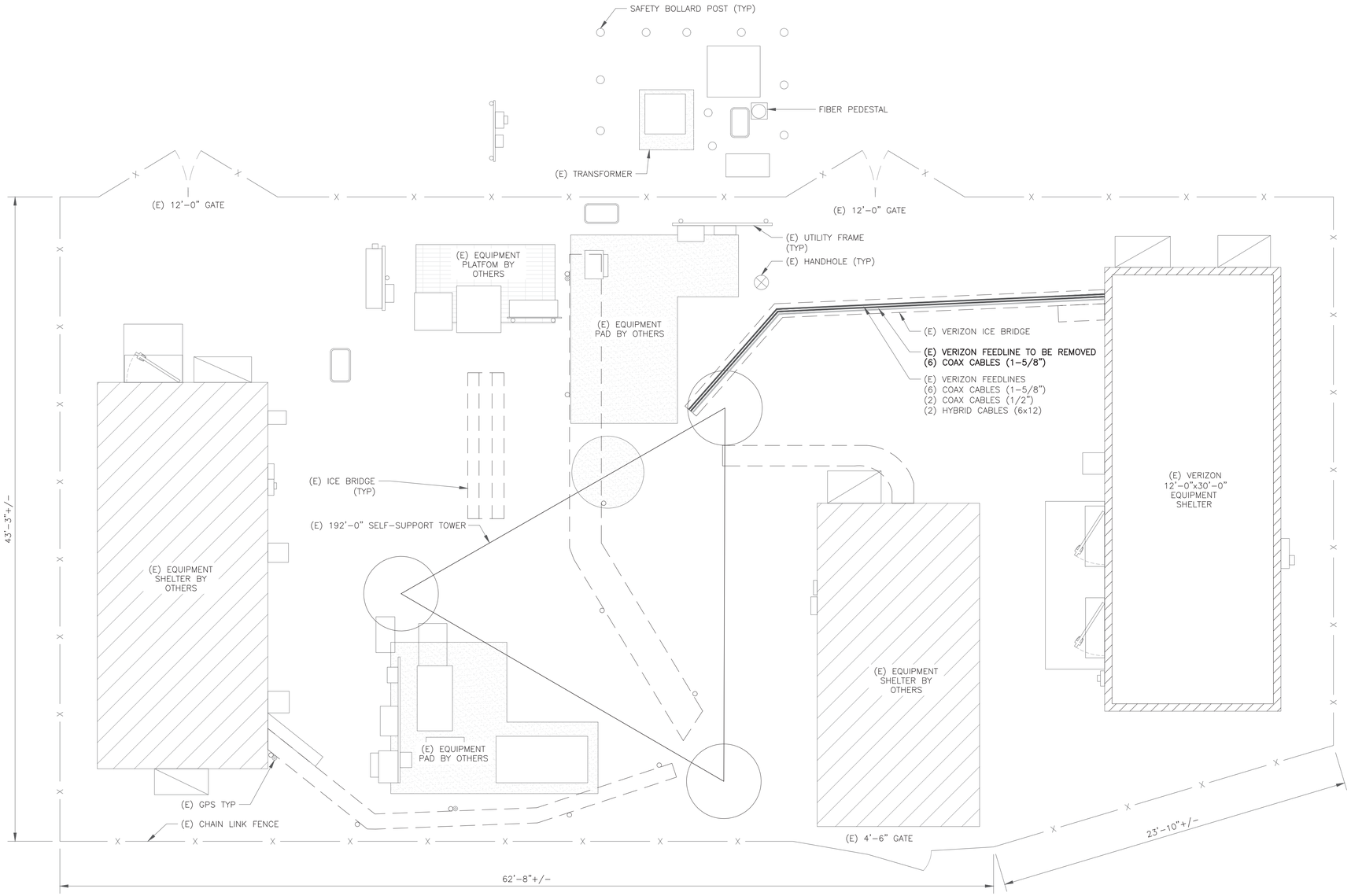
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/30/21	JJR	CONSTRUCTION	JJR

No. 23924
9/30/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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
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:
467575

BU #: **876345**
SKY HILL

33 JANOWSKI ROAD
ASHFORD, CT 06278

EXISTING 192'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/30/21	JJR	CONSTRUCTION	JJR

STATE OF CONNECTICUT
RICHARD J. RICHARDSON
No. 23924
LICENSED
PROFESSIONAL ENGINEER
9/30/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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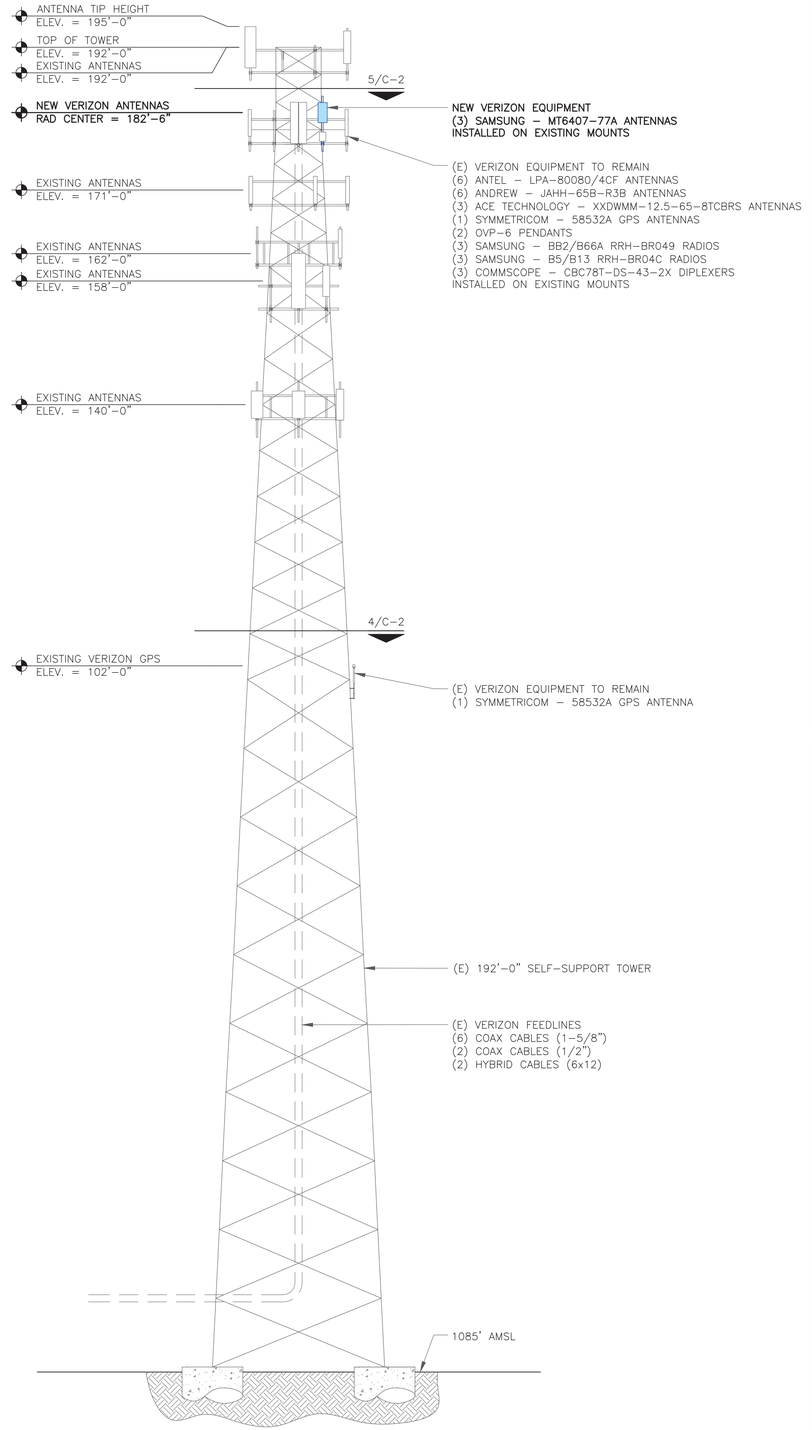
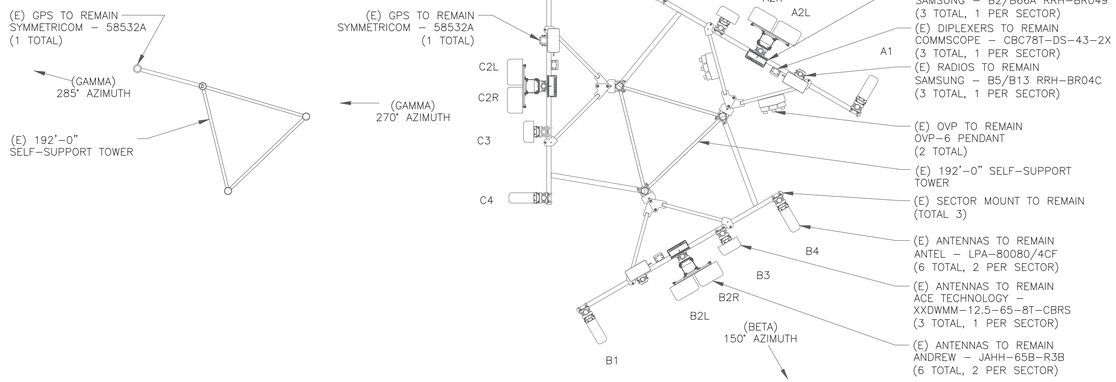
SHEET NUMBER: C-1
REVISION: 0

77921.015.01_SKY HILL.dwg - Sheet:C-1 - User: jrichardson - Sep 30, 2021 - 8:19pm



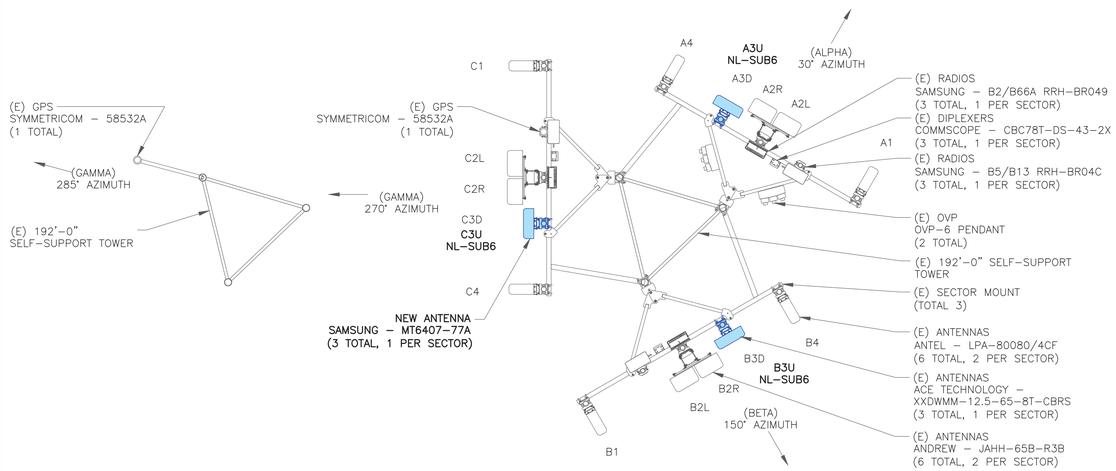
1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN @ 98'-0"
SCALE: NOT TO SCALE

3 EXISTING ANTENNA PLAN @ 180'-0"
SCALE: NOT TO SCALE

N



4 NEW ANTENNA PLAN @ 98'-0"
SCALE: NOT TO SCALE

5 NEW ANTENNA PLAN @ 180'-0"
SCALE: NOT TO SCALE

N

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VERIZON SITE NUMBER:
467575

BU #: **876345**
SKY HILL

33 JANOWSKI ROAD
ASHFORD, CT 06278

EXISTING 192'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/30/21	JJR	CONSTRUCTION	JJR

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REVISION: 0

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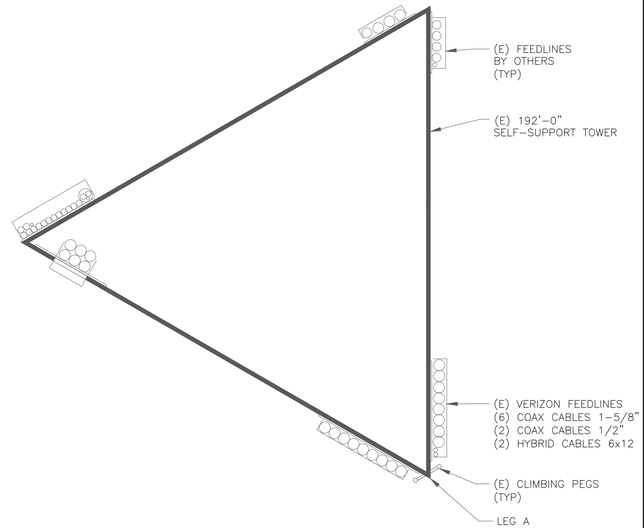
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	EXISTING	ANTEL	LPA-80080/4CF	181'-0"	30°	0°	0°	COMMSCOPE	(2) OVP-6
A2L	EXISTING	ANDREW	JAHH-65B-R3B	181'-0"	30°	0°	6°/2°/2°/ 2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049
A2R	EXISTING	ANDREW	JAHH-65B-R3B	181'-0"	30°	0°	6°/2°/2°/ 2°/2°	SAMSUNG	(1) B5/B13 RRH-BR04C
A3U	**NEW**	**SAMSUNG**	**MT6407-77A**	**182'-6"**	**30°**	**0°**	**6°**	**-**	**-**
A3D	EXISTING	ACE TECHNOLOGY	XXDWMM-12.5-65-8TCBRS	179'-0"	30°	0°	8°	-	-
A4	EXISTING	ANTEL	LPA-80080/4CF	181'-0"	30°	0°	0°	-	-
B1	EXISTING	ANTEL	LPA-80080/4CF	181'-0"	150°	4°	0°	-	-
B2L	EXISTING	ANDREW	JAHH-65B-R3B	181'-0"	150°	0°	9°/2°/2°/ 2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049
B2R	EXISTING	ANDREW	JAHH-65B-R3B	181'-0"	150°	0°	9°/2°/2°/ 2°/2°	SAMSUNG	(1) B5/B13 RRH-BR04C
B3U	**NEW**	**SAMSUNG**	**MT6407-77A**	**182'-6"**	150°	**0°**	**6°**	**-**	**-**
B3D	EXISTING	ACE TECHNOLOGY	XXDWMM-12.5-65-8TCBRS	179'-0"	150°	0°	8°	-	-
B4	EXISTING	ANTEL	LPA-80080/4CF	181'-0"	150°	4°	0°	-	-
C1	EXISTING	ANTEL	LPA-80080/4CF	181'-0"	270°	6°	0°	-	-
-	EXISTING	SYMMETRICOM	58532A	182'-0"	285°	-	-	-	-
C2L	EXISTING	ANDREW	JAHH-65B-R3B	181'-0"	270°	0°	9°/2°/2°/ 2°/2°	SAMSUNG	(1) B2/B66A RRH-BR049
C2R	EXISTING	ANDREW	JAHH-65B-R3B	181'-0"	270°	0°	9°/2°/2°/ 2°/2°	SAMSUNG	(1) B5/B13 RRH-BR04C
C3U	**NEW**	**SAMSUNG**	**MT6407-77A**	**182'-6"**	270°	**0°**	**6°**	**-**	**-**
C3D	EXISTING	ACE TECHNOLOGY	XXDWMM-12.5-65-8TCBRS	179'-0"	270°	0°	8°	-	-
C4	EXISTING	ANTEL	LPA-80080/4CF	181'-0"	270°	6°	0°	-	-
-	EXISTING	SYMMETRICOM	58532A	102'-0"	285°	-	-	-	-

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	231'-0"±	6
EXISTING	COAX	1/2"	181'-0"±	1
EXISTING	COAX	1/2"	152'-0"±	1
EXISTING	HYBRID	6x12	231'-0"±	2
TOTAL CABLE QTY:				10



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

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BU #: **876345**
SKY HILL

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EXISTING 192'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/30/21	JJR	CONSTRUCTION	JJR

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SHEET NUMBER: C-3
REVISION: 0

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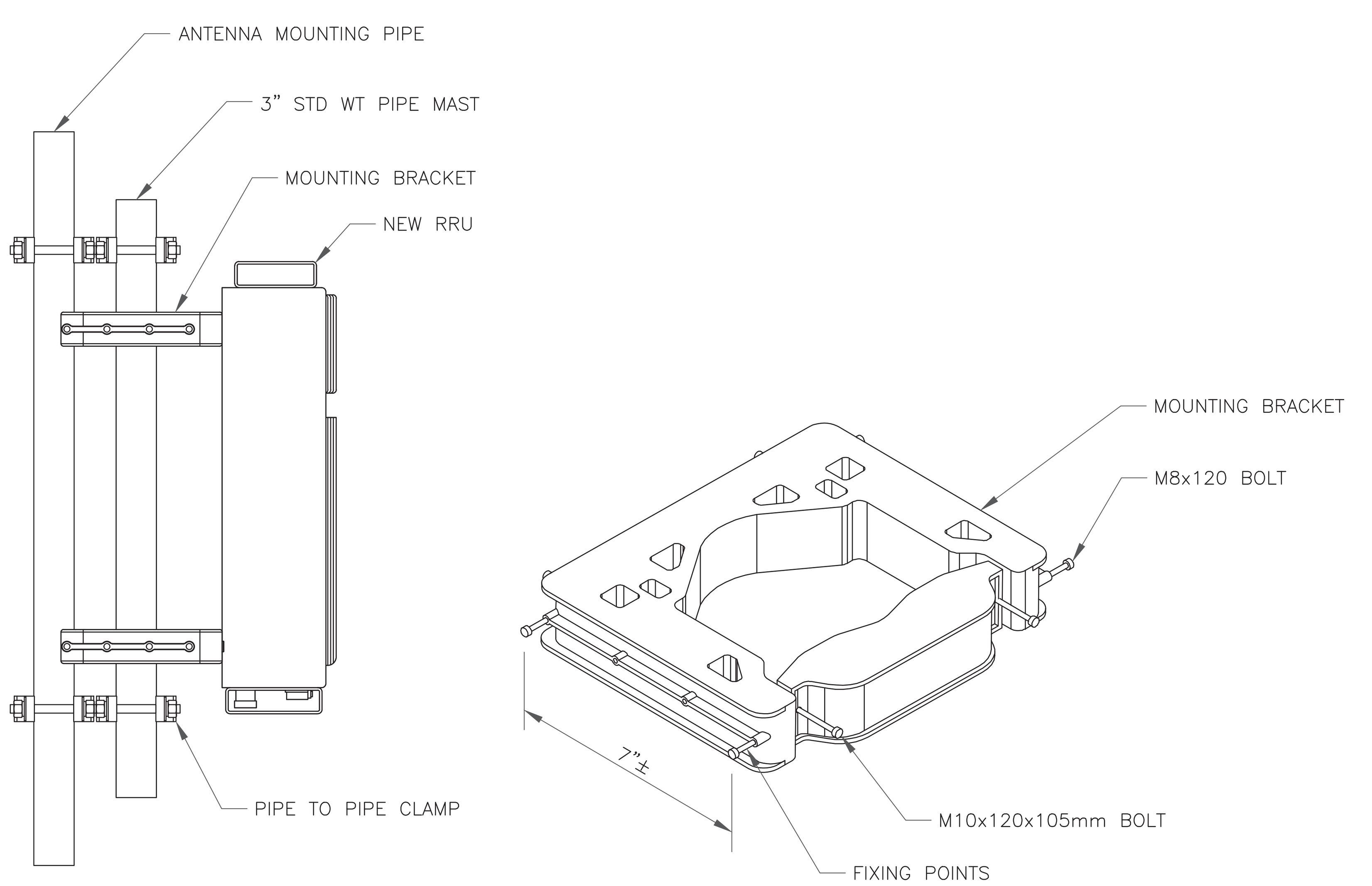
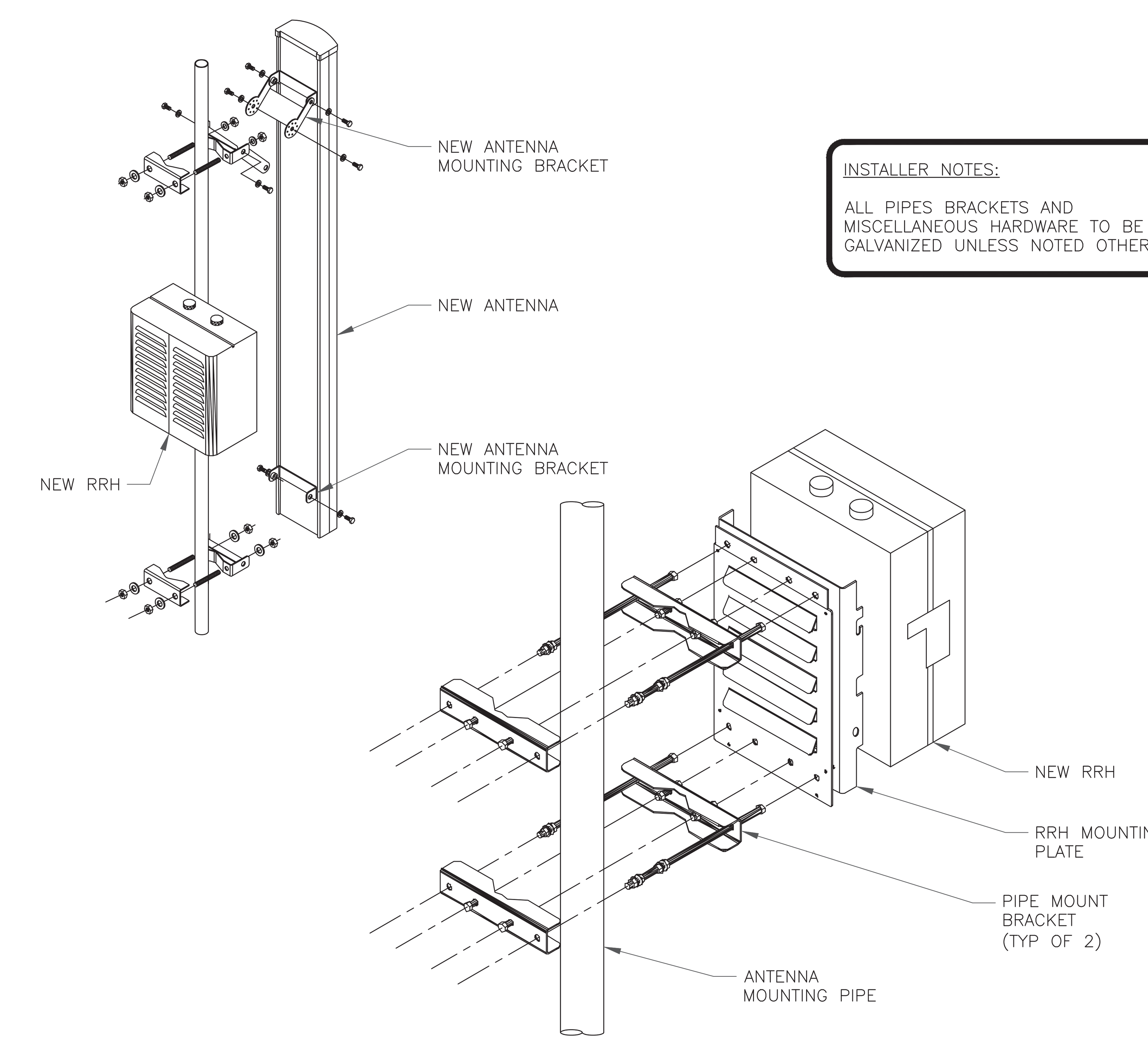
1 NOT USED
SCALE: NOT TO SCALE

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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SHEET NUMBER: C-4

REVISION: 0

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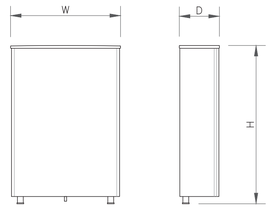

ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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SHEET NUMBER: C-5

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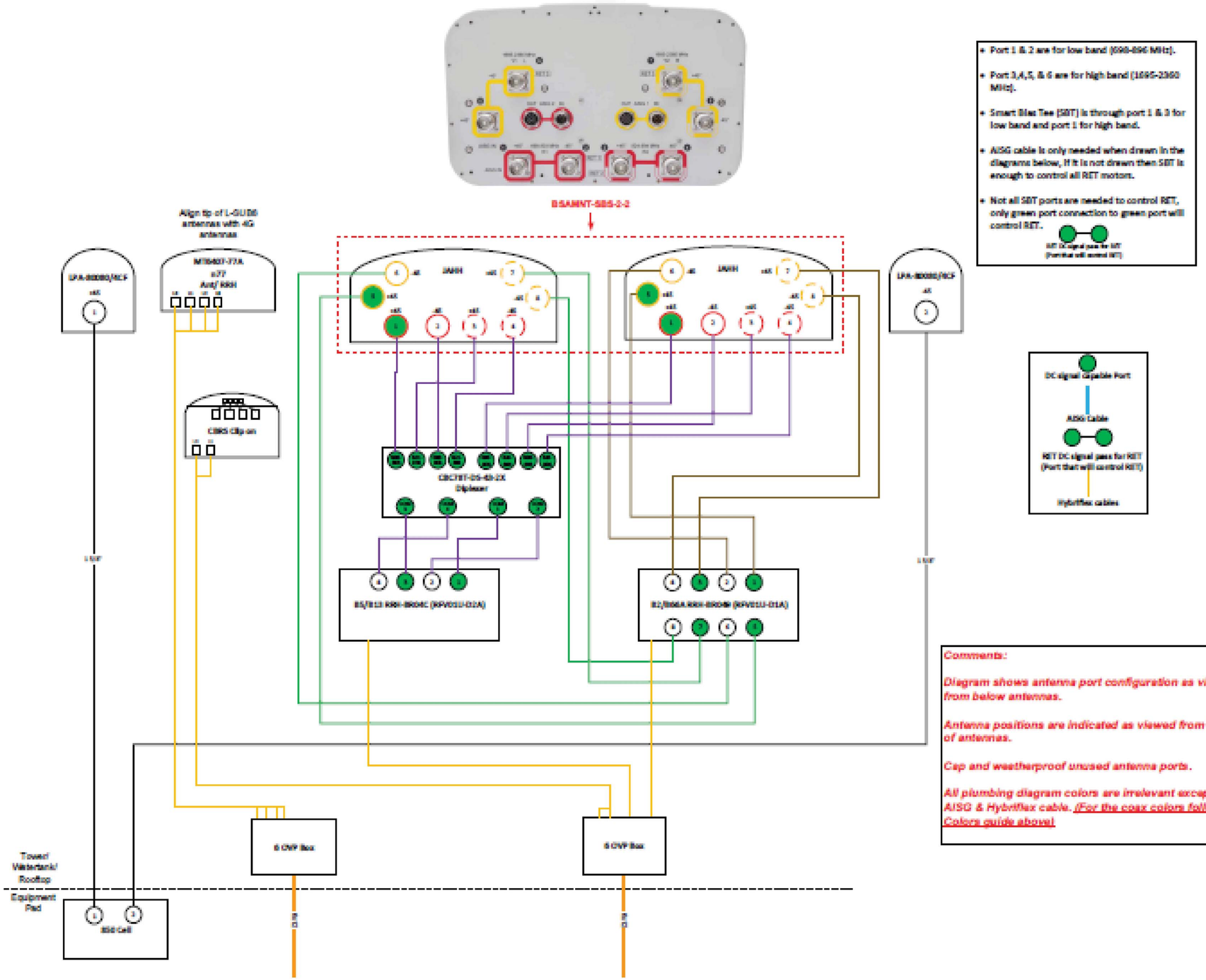

- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET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

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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SHEET NUMBER: C-6
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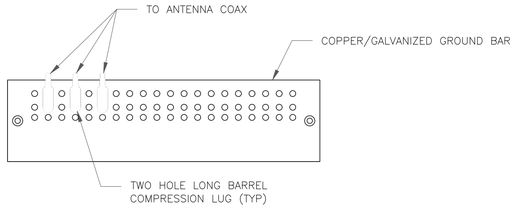
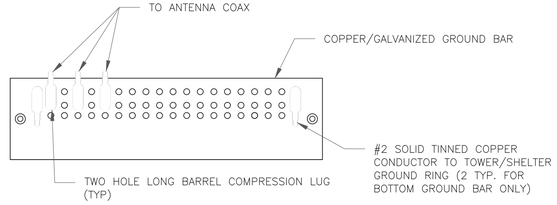


NOTES:

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.

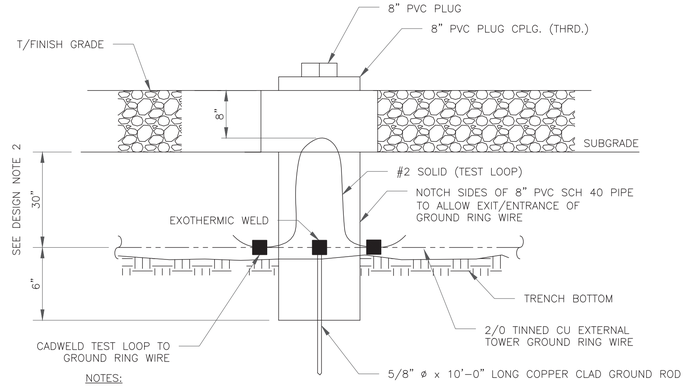
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

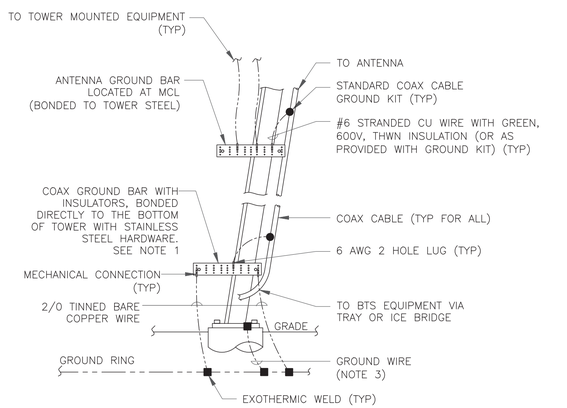
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



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)

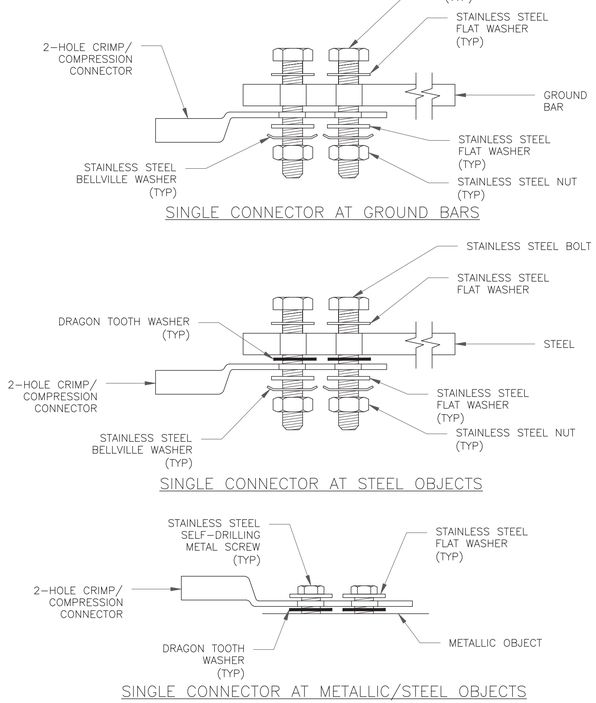
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



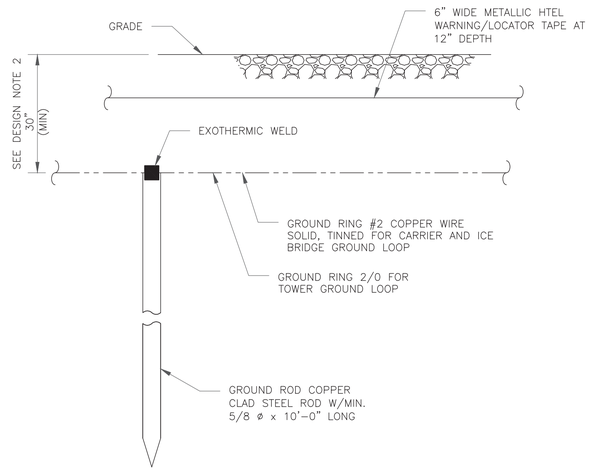
NOTES:

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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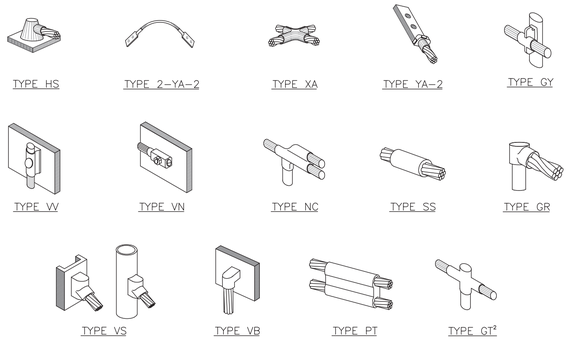
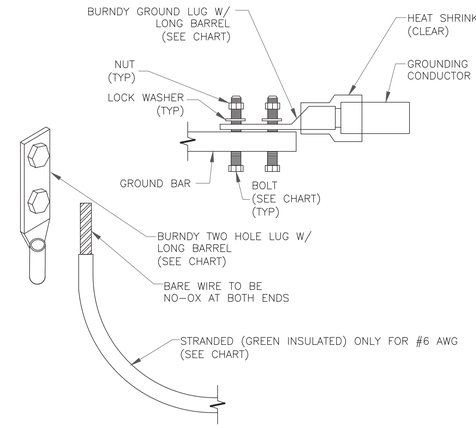


NOTE:

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

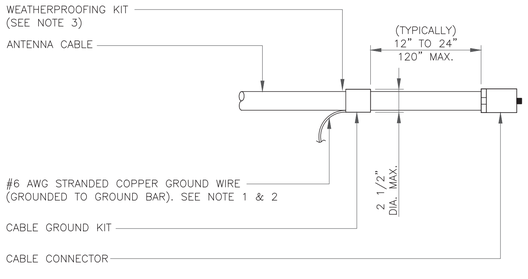
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



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.

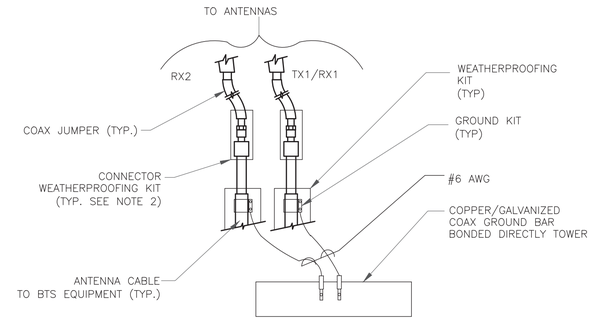
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



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.

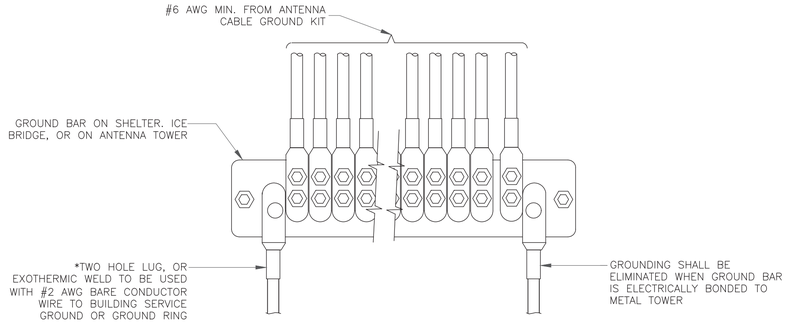
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



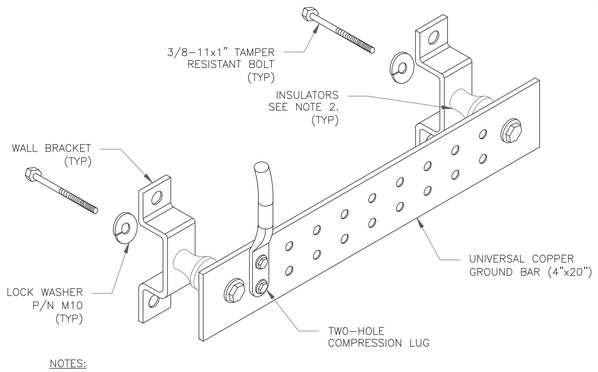
NOTES:

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



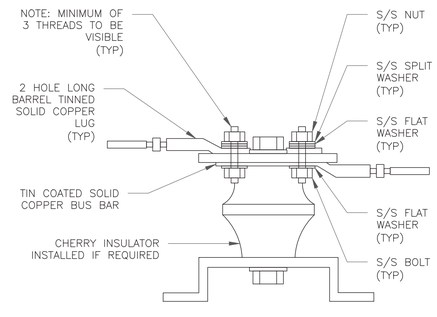
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



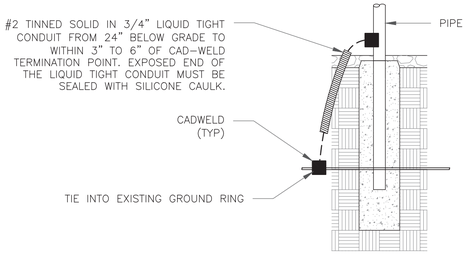
NOTES:

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:
467575

BU #: **876345**
SKY HILL

33 JANOWSKI ROAD
ASHFORD, CT 06278

EXISTING 192'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/30/21	JJR	CONSTRUCTION	JJR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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: G-2
REVISION: 0

77921.015.01_SKY HILL.dwg - Sheet:G-2 - User: jrichardson - Sep 30, 2021 - 8:19pm

Exhibit D

Structural Analysis Report

Date: **September 17, 2021**

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	467575
	Site Name:	WESTFORD CT
Crown Castle Designation:	**BU Number:**	876345
	Site Name:	SKY HILL
	JDE Job Number:	685814
	Work Order Number:	2019498
	Order Number:	585797 Rev. 0
Engineering Firm Designation:	**Crown Castle Project Number:**	2019498
Site Data:	**33 Janowski Road, Ashford, WINDHAM County, CT** **Latitude *41° 57' 7.7"*, Longitude *-72° 11' 43.9"*** **192 Foot - Self Support Tower**	

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

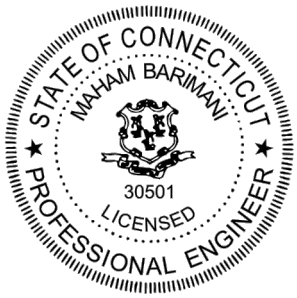
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity - 86.2%**

This analysis utilizes an ultimate 3-second gust wind speed of 130 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Melanie Atiles

Respectfully submitted by:



Maham Barimani, P.E.
Senior Project Engineer

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 192 ft Self Support tower designed by ROHN.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	130 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	2 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)
180.0	184.0	2	antel	LPA-80080/4CF	8 1	1-5/8 1/2
		1	symmetricom	58532A		
	183.0	3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
	181.0	4	antel	LPA-80080/4CF		
		6	commscope	JAHH-65B-R3B		
		2	raycap	RC3DC-3315-PF-48		
		3	rfs celwave	FDJ85020Q7-S1		
		3	samsung telecommunications	CBRS w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	180.0	1	tower mounts	Sector Mount [SM 304-3]		

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)
190.0	192.0	3	alcatel lucent	PCS 1900MHz 4x45W-65MHz	4 1	1-1/4 1/2
		6	alcatel lucent	RRH2X50-800		
		3	commscope	NNVV-65B-R4 w/ Mount Pipe		
		3	nokia	FZHN		
		3	rfs celwave	APXVTM14-ALU-I20 w/ Mount Pipe		
	190.0	1	tower mounts	Sector Mount [SM 506-3]		
171.0	172.0	9	allgon	7130.16.33.00 w/ Mount Pipe	9	1-5/8
	171.0	1	tower mounts	Sector Mount [SM 502-3]		
162.0	162.0	3	andrew	HBX-6516DS-VTM w/ Mount Pipe	6	1-5/8
		1	tower mounts	Sector Mount [SM 104-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
156.0	159.0	3	ericsson	RADIO 4449 B12/B71	3	1-5/8
		3	ericsson	RRUS 4415 B25		
	158.0	3	rfs celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
	156.0	3	ericsson	RADIO 4415 B66A		
		1	tower mounts	Sector Mount [SM 502-3]		
140.0	140.0	4	cci antennas	TPA65R-BU4D w/ Mount Pipe	14 2 2 1	7/8 3/8 3/4 Conduit
		2	commscope	NNHH-65B-R4 w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		3	powerwave technologies	TT19-08BP111-001		
		1	raycap	DC6-48-60-0-8C-EV		
		1	raycap	DC6-48-60-18-8F		
		1	tower mounts	Sector Mount [SM 504-3]		
130.0	130.0	3	fujitsu	TA08025-B604	1	1-1/2
		3	fujitsu	TA08025-B605		
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MTC3975083 (3)		
98.0	102.0	1	symmetricom	58532A	1	1/2
	98.0	1	tower mounts	Side Arm Mount [SO 301-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	2189896	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1631622	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1631630	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.

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. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	192 - 180	Leg	ROHN 2.5 STD	1	-6.544	66.738	9.8	Pass
T2	180 - 160	Leg	ROHN 2.5 STD	27	-37.477	59.996	62.5	Pass
T3	160 - 140	Leg	ROHN 3 EH	56	-73.093	99.054	73.8	Pass
T4	140 - 120	Leg	ROHN 4 EH	77	-115.374	167.894	68.7	Pass
T5	120 - 100	Leg	ROHN 5 EH	98	-155.991	251.347	62.1	Pass
T6	100 - 80	Leg	ROHN 6 EHS	119	-190.928	256.249	74.5	Pass
T7	80 - 60	Leg	ROHN 6 EH	134	-228.768	318.945	71.7	Pass
T8	60 - 40	Leg	ROHN 8 EHS	148	-264.351	405.672	65.2	Pass
T9	40 - 20	Leg	ROHN 8 EHS	163	-300.008	405.729	73.9	Pass
T10	20 - 0	Leg	ROHN 8 EHS	178	-335.562	405.717	82.7	Pass
T1	192 - 180	Diagonal	L1 3/4x1 3/4x3/16	7	-1.445	11.895	12.1	Pass
T2	180 - 160	Diagonal	L2x2x3/16	36	-4.274	10.392	41.1	Pass
T3	160 - 140	Diagonal	L2 1/2x2 1/2x1/4	63	-6.177	16.480	37.5	Pass
T4	140 - 120	Diagonal	L2 1/2x2 1/2x1/4	81	-8.000	12.587	63.6	Pass
T5	120 - 100	Diagonal	L3x3x1/4	102	-8.376	17.432	48.0	Pass
T6	100 - 80	Diagonal	L3 1/2x3 1/2x1/4	123	-9.752	19.016	51.3	Pass
T7	80 - 60	Diagonal	L4x4x1/4	138	-10.675	24.136	44.2	Pass
T8	60 - 40	Diagonal	L4x4x5/16	153	-10.210	24.922	41.0	Pass
T9	40 - 20	Diagonal	L4x4x5/16	168	-12.104	21.484	56.3	Pass
T10	20 - 0	Diagonal	L4x4x3/8	183	-12.724	21.926	58.0	Pass
T1	192 - 180	Top Girt	L1 3/4x1 3/4x3/16	4	-0.090	4.122	2.2	Pass
T2	180 - 160	Top Girt	L2x2x3/16	28	-0.907	6.245	14.5	Pass
							Summary	
						Leg (T10)	82.7	Pass
						Diagonal (T4)	63.6	Pass
						Top Girt (T2)	14.5	Pass
						Bolt Checks	86.2	Pass
						Rating =	86.2	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	48.3	Pass
1	Base Foundation (Structure)	0	15.3	Pass
1	Base Foundation (Soil Interaction)	0	46.6	Pass
Structure Rating (max from all components) =				**86.2%**

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.

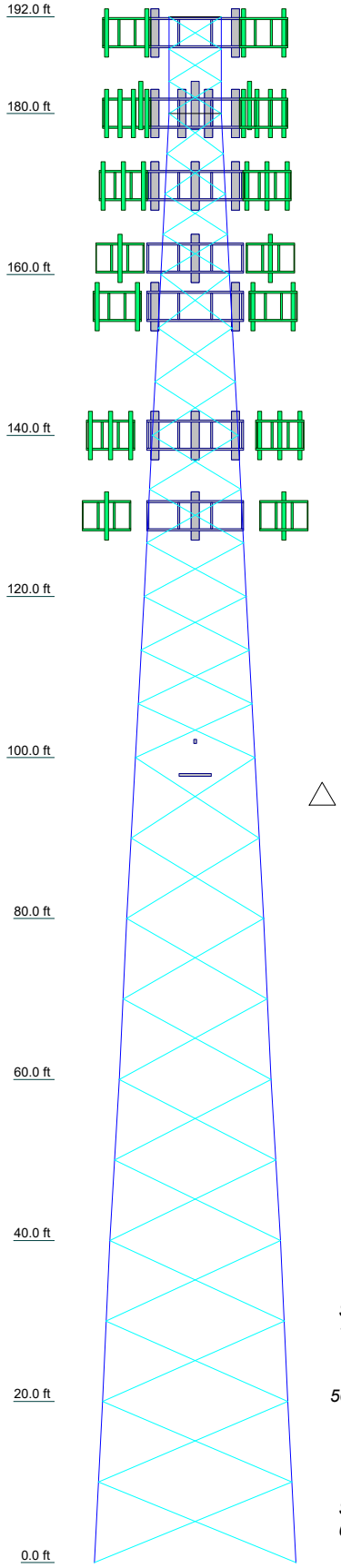
4.1) Recommendations

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	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Legs	ROHN 2.5 STD	ROHN 2.5 STD	ROHN 3 EH	ROHN 4 EH	ROHN 5 EH	ROHN 6 EHS	ROHN 6 EH	ROHN 8 EHS	ROHN 8 EHS	ROHN 8 EHS
Leg Grade	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50
Diagonals	A	L2x2x3/16	L2 1/2x2 1/2x1/4	L2 1/2x2 1/2x1/4	L3x3x1/4	L3 1/2x3 1/2x1/4	L4x4x1/4	L4x4x5/16	L4x4x5/16	L4x4x3/8
Diagonal Grade	A36	A36	A36	A36	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50
Top Girts	A	L2x2x3/16	8.54	10.61	12.74	14.83	16.92	18.88	21.13	23.05
Face Width (ft)	6.58	4 @ 5	9 @ 6.66667					10 @ 10		
# Panels @ (ft)	3 @ 4									
Weight (K)	0.6	1.0	1.5	2.0	2.7	2.8	3.5	4.4	4.6	5.3



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L1 3/4x1 3/4x3/16		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

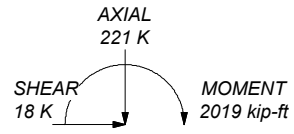
TOWER DESIGN NOTES

1. Tower is located in Windham County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 130 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 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 0.000 ft
8. TOWER RATING: 86.2%

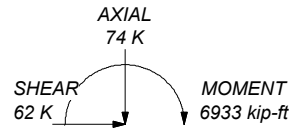
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 344 K
SHEAR: 39 K

UPLIFT: -288 K
SHEAR: 33 K



TORQUE 12 kip-ft
50 mph WIND - 2.000 in ICE



TORQUE 54 kip-ft
REACTIONS - 130 mph WIND

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
The Pathway to Possible
Phone: (724) 416-2000
FAX:

Job: *BU 876345*			
Project:			
Client: Crown Castle	Drawn by: MAtiles		App'd:
Code: TIA-222-H	Date: 09/17/21		Scale: NTS
Path: C:\Users\matiles\Desktop\Working from Home\876345\WO 2019498 - SA\Prod\876345.eri			Dwg No. E-1

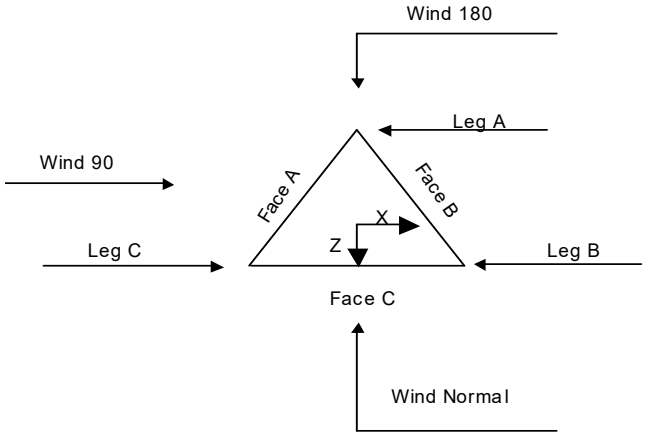
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 192.000 ft above the ground line.
The base of the tower is set at an elevation of 0.000 ft above the ground line.
The face width of the tower is 6.580 ft at the top and 25.050 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

- Tower is located in Windham County, Connecticut.
- Tower base elevation above sea level: 1068.000 ft.
- Basic wind speed of 130 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 2.000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member 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



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	192.000-180.000			6.580	1	12.000
T2	180.000-160.000			6.580	1	20.000
T3	160.000-140.000			8.540	1	20.000
T4	140.000-120.000			10.610	1	20.000
T5	120.000-100.000			12.740	1	20.000
T6	100.000-80.000			14.830	1	20.000
T7	80.000-60.000			16.920	1	20.000
T8	60.000-40.000			18.880	1	20.000
T9	40.000-20.000			21.130	1	20.000
T10	20.000-0.000			23.050	1	20.000

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	192.000-180.000	4.000	X Brace	No	No	0.000	0.000
T2	180.000-160.000	5.000	X Brace	No	No	0.000	0.000
T3	160.000-140.000	6.667	X Brace	No	No	0.000	0.000
T4	140.000-120.000	6.667	X Brace	No	No	0.000	0.000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T5	120.000-100.000	6.667	X Brace	No	No	0.000	0.000
T6	100.000-80.000	10.000	X Brace	No	No	0.000	0.000
T7	80.000-60.000	10.000	X Brace	No	No	0.000	0.000
T8	60.000-40.000	10.000	X Brace	No	No	0.000	0.000
T9	40.000-20.000	10.000	X Brace	No	No	0.000	0.000
T10	20.000-0.000	10.000	X Brace	No	No	0.000	0.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 192.000-180.000	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)
T2 180.000-160.000	Pipe	ROHN 2.5 STD	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A36 (36 ksi)
T3 160.000-140.000	Pipe	ROHN 3 EH	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)
T4 140.000-120.000	Pipe	ROHN 4 EH	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x1/4	A36 (36 ksi)
T5 120.000-100.000	Pipe	ROHN 5 EH	A572-50 (50 ksi)	Equal Angle	L3x3x1/4	A572-50 (50 ksi)
T6 100.000-80.000	Pipe	ROHN 6 EHS	A572-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A572-50 (50 ksi)
T7 80.000-60.000	Pipe	ROHN 6 EH	A572-50 (50 ksi)	Equal Angle	L4x4x1/4	A572-50 (50 ksi)
T8 60.000-40.000	Pipe	ROHN 8 EHS	A572-50 (50 ksi)	Equal Angle	L4x4x5/16	A572-50 (50 ksi)
T9 40.000-20.000	Pipe	ROHN 8 EHS	A572-50 (50 ksi)	Equal Angle	L4x4x5/16	A572-50 (50 ksi)
T10 20.000-0.000	Pipe	ROHN 8 EHS	A572-50 (50 ksi)	Equal Angle	L4x4x3/8	A572-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 192.000-180.000	Equal Angle	L1 3/4x1 3/4x3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T2 180.000-160.000	Equal Angle	L2x2x3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry *(cont'd)*

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
T1 192.000-180.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T2 180.000-160.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T3 160.000-	0.000	0.250	A36	1.05	1	1.05	0.000	0.000	36.000

Tower Elevation ft	Gusset Area (per face) ft²	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
140.000			(36 ksi)						
T4 140.000-120.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T5 120.000-100.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T6 100.000-80.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T7 80.000-60.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T8 60.000-40.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T9 40.000-20.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000
T10 20.000-0.000	0.000	0.250	A36 (36 ksi)	1.05	1	1.05	0.000	0.000	36.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 192.000-180.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T2 180.000-160.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T3 160.000-140.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T4 140.000-120.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T5 120.000-100.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T6 100.000-80.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T7 80.000-60.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T8 60.000-40.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T9 40.000-20.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1
T10 20.000-0.000	Yes	No	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1

[1]*Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.*

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 192.000-180.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 180.000-160.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T3 160.000-140.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 140.000-120.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 120.000-100.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 100.000-80.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 80.000-60.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 60.000-40.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 40.000-20.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 20.000-0.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 192.000-180.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 180.000-160.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 160.000-140.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 140.000-120.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 120.000-100.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 100.000-80.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 80.000-60.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 60.000-40.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 40.000-20.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 20.000-0.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 192.000-180.000	Flange	0.625 A325N	4	0.625 A325N	1	0.625 A325N	1	0.625 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T2 180.000-160.000	Flange	0.625 A325N	4	0.625 A325N	1	0.625 A325N	1	0.625 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T3 160.000-140.000	Flange	0.875 A325N	4	0.625 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T4 140.000-120.000	Flange	1.000 A325N	4	0.625 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T5 120.000-100.000	Flange	1.000 A325N	6	0.750 A325N	1	0.625 A325N	0	0.000 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T6 100.000-80.000	Flange	1.000 A325N	6	0.750 A325N	1	0.625 A325N	0	0.000 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T7 80.000-60.000	Flange	1.000 A325N	8	0.750 A325N	1	0.625 A325N	0	0.625 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T8 60.000-40.000	Flange	1.000 A325N	8	0.750 A325X	1	0.625 A325N	0	0.000 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T9 40.000-20.000	Flange	1.000 A325N	8	0.750 A325X	1	0.625 A325N	0	0.625 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0
T10 20.000-0.000	Flange	1.000 A354-BC	10	0.750 A325X	1	0.625 A325N	0	0.000 A325N	0	0.625 A325X	0	0.625 A325N	0	0.625 A325X	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
Thin Flat Bar Climbing Ladder	A	No	No	Af (CaAa)	192.000 - 0.000	-6.000	0.45	1	1	2.000	2.000		0.004
Safety Line 3/8 ***	A	No	No	Ar (CaAa)	192.000 - 0.000	-6.000	0.45	1	1	0.375	0.375		0.000
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	190.000 - 0.000	0.000	-0.4	1	1	0.630	0.630		0.000
HB114-1-0813U4-M5J(1-1/4)	A	No	No	Ar (CaAa)	190.000 - 0.000	0.000	-0.45	4	4	0.850	1.540		0.001
Feedline Ladder (Af) ***	A	No	No	Af (CaAa)	190.000 - 0.000	0.000	-0.45	1	1	3.000	3.000		0.008
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	180.000 - 98.000	0.000	0.48	1	1	0.630	0.630		0.000
LDF7-50A(1-5/8)	A	No	No	Ar (CaAa)	180.000 - 0.000	0.000	0.4	8	8	0.850	1.980		0.001
LDF4-50A(1/2)	A	No	No	Ar (CaAa)	98.000 - 0.000	0.000	0.48	2	2	0.630	0.630		0.000
Feedline Ladder (Af) ***	A	No	No	Af (CaAa)	180.000 - 0.000	0.000	0.4	1	1	3.000	3.000		0.008
LDF7-50A(1-5/8)	B	No	No	Ar (CaAa)	171.000 - 0.000	0.000	-0.4	9	9	0.850	1.980		0.001
Feedline Ladder (Af) ***	B	No	No	Af (CaAa)	170.000 - 0.000	0.000	-0.4	1	1	3.000	3.000		0.008
FXL 1873 PE(1-5/8)	B	No	No	Ar (CaAa)	162.000 - 0.000	-2.000	0.45	6	3	0.850 0.750	1.980		0.001
Feedline Ladder (Af) ***	B	No	No	Af (CaAa)	160.000 - 0.000	-0.500	0.45	1	1	3.000	3.000		0.008
FLC 78-50J(7/8)	C	No	No	Ar (CaAa)	140.000 - 0.000	0.000	-0.4	14	12	0.850 0.750	1.112		0.000
FB-L98B-002-75000(3/8)	C	No	No	Ar (CaAa)	140.000 - 0.000	1.500	-0.42	1	1	0.394	0.394		0.000
FB-L98B-034-XXX(3/8)	C	No	No	Ar (CaAa)	140.000 - 0.000	0.000	-0.32	1	1	0.394	0.000		0.000
WR-	C	No	No	Ar (CaAa)	140.000 -	0.000	-0.32	2	2	0.795	0.000		0.001

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
VG86ST-BRD(3/4) 2" Flex Conduit	C	No	No	Ar (CaAa)	0.000 140.000 - 0.000	0.000	-0.32	1	1	2.000	2.000		0.000
Feedline Ladder (Af) ***	C	No	No	Af (CaAa)	140.000 - 0.000	0.000	-0.4	1	1	3.000	3.000		0.008
HCS 6X12 4AWG(1-5/8)	C	No	No	Ar (CaAa)	156.000 - 0.000	0.000	0.4	3	3	0.850	1.660		0.002
Feedline Ladder (Af) ******	C	No	No	Af (CaAa)	150.000 - 0.000	0.000	0.4	1	1	3.000	3.000		0.008
CU12PSM9P6XXX(1-1/2) ***	C	No	No	Ar (CaAa)	130.000 - 0.000	0.000	0.48	1	1	1.600	1.600		0.002

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C_AA_A ft^2/ft	Weight klf
***								

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
T1	192.000-180.000	A	0.000	0.000	16.240	0.000	0.184
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.000
T2	180.000-160.000	A	0.000	0.000	73.937	0.000	0.654
		B	0.000	0.000	26.978	0.000	0.173
		C	0.000	0.000	0.000	0.000	0.000
T3	160.000-140.000	A	0.000	0.000	73.937	0.000	0.654
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	12.968	0.000	0.199
T4	140.000-120.000	A	0.000	0.000	73.937	0.000	0.654
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	67.484	0.000	0.648
T5	120.000-100.000	A	0.000	0.000	73.937	0.000	0.654
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	69.084	0.000	0.672
T6	100.000-80.000	A	0.000	0.000	75.071	0.000	0.656
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	69.084	0.000	0.672
T7	80.000-60.000	A	0.000	0.000	75.197	0.000	0.657
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	69.084	0.000	0.672
T8	60.000-40.000	A	0.000	0.000	75.197	0.000	0.657
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	69.084	0.000	0.672
T9	40.000-20.000	A	0.000	0.000	75.197	0.000	0.657
		B	0.000	0.000	79.400	0.000	0.564
		C	0.000	0.000	69.084	0.000	0.672
T10	20.000-0.000	A	0.000	0.000	75.197	0.000	0.657
		B	0.000	0.000	79.400	0.000	0.564

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	69.084	0.000	0.672

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
T1	192.000-180.000	A	2.021	0.000	0.000	45.264	0.000	0.844
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.000
T2	180.000-160.000	A	2.003	0.000	0.000	178.888	0.000	3.269
		B		0.000	0.000	52.854	0.000	0.966
		C		0.000	0.000	0.000	0.000	0.000
T3	160.000-140.000	A	1.978	0.000	0.000	177.977	0.000	3.228
		B		0.000	0.000	144.978	0.000	2.788
		C		0.000	0.000	33.011	0.000	0.638
T4	140.000-120.000	A	1.950	0.000	0.000	176.949	0.000	3.183
		B		0.000	0.000	144.391	0.000	2.754
		C		0.000	0.000	183.089	0.000	3.164
T5	120.000-100.000	A	1.918	0.000	0.000	175.768	0.000	3.131
		B		0.000	0.000	143.716	0.000	2.716
		C		0.000	0.000	187.171	0.000	3.218
T6	100.000-80.000	A	1.879	0.000	0.000	182.571	0.000	3.109
		B		0.000	0.000	142.920	0.000	2.671
		C		0.000	0.000	185.500	0.000	3.154
T7	80.000-60.000	A	1.833	0.000	0.000	181.638	0.000	3.039
		B		0.000	0.000	141.946	0.000	2.617
		C		0.000	0.000	183.455	0.000	3.077
T8	60.000-40.000	A	1.772	0.000	0.000	179.242	0.000	2.944
		B		0.000	0.000	140.680	0.000	2.547
		C		0.000	0.000	180.797	0.000	2.978
T9	40.000-20.000	A	1.684	0.000	0.000	175.758	0.000	2.808
		B		0.000	0.000	138.840	0.000	2.446
		C		0.000	0.000	176.932	0.000	2.837
T10	20.000-0.000	A	1.509	0.000	0.000	168.855	0.000	2.548
		B		0.000	0.000	135.193	0.000	2.252
		C		0.000	0.000	169.268	0.000	2.568

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	192.000-180.000	-5.049	1.075	-5.835	-0.371
T2	180.000-160.000	-4.744	-15.872	-6.205	-15.537
T3	160.000-140.000	-1.685	-15.245	-4.063	-14.853
T4	140.000-120.000	5.593	-11.877	6.132	-7.909
T5	120.000-100.000	5.503	-12.425	6.044	-8.381
T6	100.000-80.000	6.295	-14.596	6.929	-10.430
T7	80.000-60.000	6.527	-15.335	7.480	-11.499
T8	60.000-40.000	6.933	-16.332	8.026	-12.476
T9	40.000-20.000	7.359	-17.415	8.689	-13.710
T10	20.000-0.000	7.740	-18.389	9.398	-15.168

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	Thin Flat Bar Climbing Ladder	180.00 - 192.00	0.6000	0.5487
T1	2	Safety Line 3/8	180.00 - 192.00	0.6000	0.5487
T1	4	LDF4-50A(1/2)	180.00 - 190.00	0.6000	0.5487
T1	5	HB114-1-0813U4-M5J(1-1/4)	180.00 - 190.00	0.6000	0.5487
T1	7	Feedline Ladder (Af)	180.00 - 190.00	0.6000	0.5487
T2	1	Thin Flat Bar Climbing Ladder	160.00 - 180.00	0.6000	0.6000
T2	2	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T2	4	LDF4-50A(1/2)	160.00 - 180.00	0.6000	0.6000
T2	5	HB114-1-0813U4-M5J(1-1/4)	160.00 - 180.00	0.6000	0.6000
T2	7	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T2	9	LDF4-50A(1/2)	160.00 - 180.00	0.6000	0.6000
T2	10	LDF7-50A(1-5/8)	160.00 - 180.00	0.6000	0.6000
T2	12	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T2	14	LDF7-50A(1-5/8)	160.00 - 171.00	0.6000	0.6000
T2	15	Feedline Ladder (Af)	160.00 - 170.00	0.6000	0.6000
T2	17	FXL 1873 PE(1-5/8)	160.00 - 162.00	0.6000	0.6000
T3	1	Thin Flat Bar Climbing Ladder	140.00 - 160.00	0.6000	0.6000
T3	2	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T3	4	LDF4-50A(1/2)	140.00 - 160.00	0.6000	0.6000
T3	5	HB114-1-0813U4-M5J(1-1/4)	140.00 - 160.00	0.6000	0.6000
T3	7	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	9	LDF4-50A(1/2)	140.00 - 160.00	0.6000	0.6000
T3	10	LDF7-50A(1-5/8)	140.00 - 160.00	0.6000	0.6000
T3	12	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	14	LDF7-50A(1-5/8)	140.00 - 160.00	0.6000	0.6000
T3	15	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	17	FXL 1873 PE(1-5/8)	140.00 - 160.00	0.6000	0.6000
T3	18	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	28	HCS 6X12 4AWG(1-5/8)	140.00 - 156.00	0.6000	0.6000
T3	29	Feedline Ladder (Af)	140.00 - 150.00	0.6000	0.6000
T4	1	Thin Flat Bar Climbing Ladder	120.00 - 140.00	0.6000	0.6000
T4	2	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T4	4	LDF4-50A(1/2)	120.00 - 140.00	0.6000	0.6000
T4	5	HB114-1-0813U4-M5J(1-1/4)	120.00 - 140.00	0.6000	0.6000
T4	7	Feedline Ladder (Af)	120.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T4	9	LDF4-50A(1/2)	140.00 120.00 -	0.6000	0.6000
T4	10	LDF7-50A(1-5/8)	140.00 120.00 -	0.6000	0.6000
T4	12	Feedline Ladder (Af)	140.00 120.00 -	0.6000	0.6000
T4	14	LDF7-50A(1-5/8)	140.00 120.00 -	0.6000	0.6000
T4	15	Feedline Ladder (Af)	140.00 120.00 -	0.6000	0.6000
T4	17	FXL 1873 PE(1-5/8)	140.00 120.00 -	0.6000	0.6000
T4	18	Feedline Ladder (Af)	140.00 120.00 -	0.6000	0.6000
T4	20	FLC 78-50J(7/8)	140.00 120.00 -	0.6000	0.6000
T4	21	FB-L98B-002-75000(3/8)	140.00 120.00 -	0.6000	0.6000
T4	22	FB-L98B-034-XXX(3/8)	140.00 120.00 -	0.6000	0.6000
T4	24	WR-VG86ST-BRD(3/4)	140.00 120.00 -	0.6000	0.6000
T4	25	2" Flex Conduit	140.00 120.00 -	0.6000	0.6000
T4	26	Feedline Ladder (Af)	140.00 120.00 -	0.6000	0.6000
T4	28	HCS 6X12 4AWG(1-5/8)	140.00 120.00 -	0.6000	0.6000
T4	29	Feedline Ladder (Af)	140.00 120.00 -	0.6000	0.6000
T4	31	CU12PSM9P6XXX(1-1/2)	140.00 120.00 -	0.6000	0.6000
T5	1	Thin Flat Bar Climbing Ladder	130.00 100.00 -	0.6000	0.6000
T5	2	Safety Line 3/8	120.00 100.00 -	0.6000	0.6000
T5	4	LDF4-50A(1/2)	120.00 100.00 -	0.6000	0.6000
T5	5	HB114-1-0813U4-M5J(1-1/4)	120.00 100.00 -	0.6000	0.6000
T5	7	Feedline Ladder (Af)	120.00 100.00 -	0.6000	0.6000
T5	9	LDF4-50A(1/2)	120.00 100.00 -	0.6000	0.6000
T5	10	LDF7-50A(1-5/8)	120.00 100.00 -	0.6000	0.6000
T5	12	Feedline Ladder (Af)	120.00 100.00 -	0.6000	0.6000
T5	14	LDF7-50A(1-5/8)	120.00 100.00 -	0.6000	0.6000
T5	15	Feedline Ladder (Af)	120.00 100.00 -	0.6000	0.6000
T5	17	FXL 1873 PE(1-5/8)	120.00 100.00 -	0.6000	0.6000
T5	18	Feedline Ladder (Af)	120.00 100.00 -	0.6000	0.6000
T5	20	FLC 78-50J(7/8)	120.00 100.00 -	0.6000	0.6000
T5	21	FB-L98B-002-75000(3/8)	120.00 100.00 -	0.6000	0.6000
T5	22	FB-L98B-034-XXX(3/8)	120.00 100.00 -	0.6000	0.6000
T5	24	WR-VG86ST-BRD(3/4)	120.00 100.00 -	0.6000	0.6000
T5	25	2" Flex Conduit	120.00 100.00 -	0.6000	0.6000
T5	26	Feedline Ladder (Af)	120.00 100.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T5	28	HCS 6X12 4AWG(1-5/8)	100.00 - 120.00	0.6000	0.6000
T5	29	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	31	CU12PSM9P6XXX(1-1/2)	100.00 - 120.00	0.6000	0.6000
T6	1	Thin Flat Bar Climbing Ladder	80.00 - 100.00	0.6000	0.6000
T6	2	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T6	4	LDF4-50A(1/2)	80.00 - 100.00	0.6000	0.6000
T6	5	HB114-1-0813U4-M5J(1-1/4)	80.00 - 100.00	0.6000	0.6000
T6	7	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	9	LDF4-50A(1/2)	98.00 - 100.00	0.6000	0.6000
T6	10	LDF7-50A(1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	11	LDF4-50A(1/2)	80.00 - 98.00	0.6000	0.6000
T6	12	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	14	LDF7-50A(1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	15	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	17	FXL 1873 PE(1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	18	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	20	FLC 78-50J(7/8)	80.00 - 100.00	0.6000	0.6000
T6	21	FB-L98B-002-75000(3/8)	80.00 - 100.00	0.6000	0.6000
T6	22	FB-L98B-034-XXX(3/8)	80.00 - 100.00	0.6000	0.6000
T6	24	WR-VG86ST-BRD(3/4)	80.00 - 100.00	0.6000	0.6000
T6	25	2" Flex Conduit	80.00 - 100.00	0.6000	0.6000
T6	26	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	28	HCS 6X12 4AWG(1-5/8)	80.00 - 100.00	0.6000	0.6000
T6	29	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	31	CU12PSM9P6XXX(1-1/2)	80.00 - 100.00	0.6000	0.6000
T7	1	Thin Flat Bar Climbing Ladder	60.00 - 80.00	0.6000	0.6000
T7	2	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T7	4	LDF4-50A(1/2)	60.00 - 80.00	0.6000	0.6000
T7	5	HB114-1-0813U4-M5J(1-1/4)	60.00 - 80.00	0.6000	0.6000
T7	7	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	10	LDF7-50A(1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	11	LDF4-50A(1/2)	60.00 - 80.00	0.6000	0.6000
T7	12	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	14	LDF7-50A(1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	15	Feedline Ladder (Af)	60.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T7	17	FXL 1873 PE(1-5/8)	80.00 60.00 - 80.00	0.6000	0.6000
T7	18	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	20	FLC 78-50J(7/8)	60.00 - 80.00	0.6000	0.6000
T7	21	FB-L98B-002-75000(3/8)	60.00 - 80.00	0.6000	0.6000
T7	22	FB-L98B-034-XXX(3/8)	60.00 - 80.00	0.6000	0.6000
T7	24	WR-VG86ST-BRD(3/4)	60.00 - 80.00	0.6000	0.6000
T7	25	2" Flex Conduit	60.00 - 80.00	0.6000	0.6000
T7	26	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	28	HCS 6X12 4AWG(1-5/8)	60.00 - 80.00	0.6000	0.6000
T7	29	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	31	CU12PSM9P6XXX(1-1/2)	60.00 - 80.00	0.6000	0.6000
T8	1	Thin Flat Bar Climbing Ladder	40.00 - 60.00	0.6000	0.6000
T8	2	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T8	4	LDF4-50A(1/2)	40.00 - 60.00	0.6000	0.6000
T8	5	HB114-1-0813U4-M5J(1-1/4)	40.00 - 60.00	0.6000	0.6000
T8	7	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	10	LDF7-50A(1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	11	LDF4-50A(1/2)	40.00 - 60.00	0.6000	0.6000
T8	12	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	14	LDF7-50A(1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	15	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	17	FXL 1873 PE(1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	18	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	20	FLC 78-50J(7/8)	40.00 - 60.00	0.6000	0.6000
T8	21	FB-L98B-002-75000(3/8)	40.00 - 60.00	0.6000	0.6000
T8	22	FB-L98B-034-XXX(3/8)	40.00 - 60.00	0.6000	0.6000
T8	24	WR-VG86ST-BRD(3/4)	40.00 - 60.00	0.6000	0.6000
T8	25	2" Flex Conduit	40.00 - 60.00	0.6000	0.6000
T8	26	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	28	HCS 6X12 4AWG(1-5/8)	40.00 - 60.00	0.6000	0.6000
T8	29	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	31	CU12PSM9P6XXX(1-1/2)	40.00 - 60.00	0.6000	0.6000
T9	1	Thin Flat Bar Climbing Ladder	20.00 - 40.00	0.6000	0.6000
T9	2	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	4	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T9	5	HB114-1-0813U4-M5J(1-1/4)	20.00 - 40.00	0.6000	0.6000
T9	7	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	10	LDF7-50A(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	11	LDF4-50A(1/2)	20.00 - 40.00	0.6000	0.6000
T9	12	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	14	LDF7-50A(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	15	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	17	FXL 1873 PE(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	18	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	20	FLC 78-50J(7/8)	20.00 - 40.00	0.6000	0.6000
T9	21	FB-L98B-002-75000(3/8)	20.00 - 40.00	0.6000	0.6000
T9	22	FB-L98B-034-XXX(3/8)	20.00 - 40.00	0.6000	0.6000
T9	24	WR-VG86ST-BRD(3/4)	20.00 - 40.00	0.6000	0.6000
T9	25	2" Flex Conduit	20.00 - 40.00	0.6000	0.6000
T9	26	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	28	HCS 6X12 4AWG(1-5/8)	20.00 - 40.00	0.6000	0.6000
T9	29	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	31	CU12PSM9P6XXX(1-1/2)	20.00 - 40.00	0.6000	0.6000
T10	1	Thin Flat Bar Climbing Ladder	0.00 - 20.00	0.6000	0.6000
T10	2	Safety Line 3/8	0.00 - 20.00	0.6000	0.6000
T10	4	LDF4-50A(1/2)	0.00 - 20.00	0.6000	0.6000
T10	5	HB114-1-0813U4-M5J(1-1/4)	0.00 - 20.00	0.6000	0.6000
T10	7	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	10	LDF7-50A(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	11	LDF4-50A(1/2)	0.00 - 20.00	0.6000	0.6000
T10	12	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	14	LDF7-50A(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	15	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	17	FXL 1873 PE(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	18	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	20	FLC 78-50J(7/8)	0.00 - 20.00	0.6000	0.6000
T10	21	FB-L98B-002-75000(3/8)	0.00 - 20.00	0.6000	0.6000
T10	22	FB-L98B-034-XXX(3/8)	0.00 - 20.00	0.6000	0.6000
T10	24	WR-VG86ST-BRD(3/4)	0.00 - 20.00	0.6000	0.6000
T10	25	2" Flex Conduit	0.00 - 20.00	0.6000	0.6000
T10	26	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	28	HCS 6X12 4AWG(1-5/8)	0.00 - 20.00	0.6000	0.6000
T10	29	Feedline Ladder (Af)	0.00 - 20.00	0.6000	0.6000
T10	31	CU12PSM9P6XXX(1-1/2)	0.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	190.000
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	190.000
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	190.000
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	190.000
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	190.000
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	190.000
FZHN	A	From Leg	4.000 0.000 2.000	0.000	190.000
FZHN	B	From Leg	4.000 0.000 2.000	0.000	190.000
FZHN	C	From Leg	4.000 0.000 2.000	0.000	190.000
PCS 1900MHz 4x45W-65MHz	A	From Leg	4.000 0.000 2.000	0.000	190.000
PCS 1900MHz 4x45W-65MHz	B	From Leg	4.000 0.000 2.000	0.000	190.000
PCS 1900MHz 4x45W-65MHz	C	From Leg	4.000 0.000 2.000	0.000	190.000
(2) RRH2X50-800	A	From Leg	4.000 0.000 2.000	0.000	190.000
(2) RRH2X50-800	B	From Leg	4.000 0.000 2.000	0.000	190.000
(2) RRH2X50-800	C	From Leg	4.000 0.000 2.000	0.000	190.000
Sector Mount [SM 506-3] ***	C	None		0.000	190.000
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 3.000	0.000	180.000
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 3.000	0.000	180.000
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 3.000	0.000	180.000
(2) LPA-80080/4CF	A	From Leg	4.000 0.000 1.000	0.000	180.000
(2) LPA-80080/4CF	B	From Leg	4.000 0.000 1.000	0.000	180.000
(2) LPA-80080/4CF	C	From Leg	4.000 0.000	0.000	180.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
(2) JAHH-65B-R3B	A	From Leg	4.000 4.000 0.000	0.000	180.000
(2) JAHH-65B-R3B	B	From Leg	1.000 4.000 0.000	0.000	180.000
(2) JAHH-65B-R3B	C	From Leg	1.000 4.000 0.000	0.000	180.000
CBRS w/ Mount Pipe	A	From Leg	1.000 4.000 0.000	0.000	180.000
CBRS w/ Mount Pipe	B	From Leg	1.000 4.000 0.000	0.000	180.000
CBRS w/ Mount Pipe	C	From Leg	1.000 4.000 0.000	0.000	180.000
58532A	C	From Leg	1.000 4.000 0.000	0.000	180.000
FDJ85020Q7-S1	A	From Leg	4.000 4.000 0.000	0.000	180.000
FDJ85020Q7-S1	B	From Leg	1.000 4.000 0.000	0.000	180.000
FDJ85020Q7-S1	C	From Leg	1.000 4.000 0.000	0.000	180.000
RFV01U-D1A	A	From Leg	1.000 4.000 0.000	0.000	180.000
RFV01U-D1A	B	From Leg	1.000 4.000 0.000	0.000	180.000
RFV01U-D1A	C	From Leg	1.000 4.000 0.000	0.000	180.000
RFV01U-D2A	A	From Leg	1.000 4.000 0.000	0.000	180.000
RFV01U-D2A	B	From Leg	1.000 4.000 0.000	0.000	180.000
RFV01U-D2A	C	From Leg	1.000 4.000 0.000	0.000	180.000
(2) RC3DC-3315-PF-48	A	From Leg	1.000 4.000 0.000	0.000	180.000
Sector Mount [SM 304-3]	C	None	1.000	0.000	180.000
Mount Reinforcement Specifications	C	None		0.000	180.000
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(3) 7130.16.33.00 w/ Mount Pipe	A	From Leg	4.000 0.000	0.000	171.000
(3) 7130.16.33.00 w/ Mount Pipe	B	From Leg	1.000 4.000 0.000	0.000	171.000
(3) 7130.16.33.00 w/ Mount Pipe	C	From Leg	1.000 4.000 0.000	0.000	171.000
Sector Mount [SM 502-3]	C	None	1.000	0.000	171.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
***					
HBX-6516DS-VTM w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	162.000
HBX-6516DS-VTM w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	162.000
HBX-6516DS-VTM w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	162.000
6' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	162.000
6' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	162.000
6' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	162.000
Sector Mount [SM 104-3]	C	None		0.000	162.000
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APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	156.000
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	156.000
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	156.000
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	156.000
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	156.000
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	156.000
RADIO 4415 B66A	A	From Leg	4.000 0.000 0.000	0.000	156.000
RADIO 4415 B66A	B	From Leg	4.000 0.000 0.000	0.000	156.000
RADIO 4415 B66A	C	From Leg	4.000 0.000 0.000	0.000	156.000
RRUS 4415 B25	A	From Leg	4.000 0.000 3.000	0.000	156.000
RRUS 4415 B25	B	From Leg	4.000 0.000 3.000	0.000	156.000
RRUS 4415 B25	C	From Leg	4.000 0.000 3.000	0.000	156.000
RADIO 4449 B12/B71	B	From Leg	4.000 0.000 3.000	0.000	156.000
RADIO 4449 B12/B71	C	From Leg	4.000 0.000 3.000	0.000	156.000
RADIO 4449 B12/B71	A	From Leg	4.000 0.000	0.000	156.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
8' x 2" Mount Pipe	A	From Leg	3.000 4.000 0.000	0.000	156.000
8' x 2" Mount Pipe	B	From Leg	2.000 4.000 0.000	0.000	156.000
8' x 2" Mount Pipe	C	From Leg	2.000 4.000 0.000	0.000	156.000
Sector Mount [SM 502-3]	C	None	2.000	0.000	156.000
***					
7770.00 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	140.000
7770.00 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	140.000
7770.00 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	140.000
(2) NNHH-65B-R4 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	140.000
(2) TPA65R-BU4D w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	140.000
(2) TPA65R-BU4D w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	140.000
TT19-08BP111-001	A	From Leg	4.000 0.000 0.000	0.000	140.000
TT19-08BP111-001	B	From Leg	4.000 0.000 0.000	0.000	140.000
TT19-08BP111-001	C	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 4478 B14	A	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 4478 B14	B	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 4478 B14	C	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 4449 B5/B12	A	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 4449 B5/B12	B	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 4449 B5/B12	C	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 8843 B2/B66A	A	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 8843 B2/B66A	B	From Leg	4.000 0.000 0.000	0.000	140.000
RRUS 8843 B2/B66A	C	From Leg	4.000 0.000	0.000	140.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
DC6-48-60-18-8F	A	From Leg	0.000 4.000 0.000	0.000	140.000
DC6-48-60-0-8C-EV	B	From Leg	0.000 4.000 0.000	0.000	140.000
Sector Mount [SM 504-3]	C	None	0.000	0.000	140.000
***					
58532A	A	From Leg	3.000 0.000 4.000	0.000	98.000
Side Arm Mount [SO 301-1]	A	From Leg	1.500 0.000 0.000	0.000	98.000
******					
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	130.000
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	130.000
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	130.000
TA08025-B604	A	From Leg	4.000 0.000 0.000	0.000	130.000
TA08025-B604	B	From Leg	4.000 0.000 0.000	0.000	130.000
TA08025-B604	C	From Leg	4.000 0.000 0.000	0.000	130.000
TA08025-B605	A	From Leg	4.000 0.000 0.000	0.000	130.000
TA08025-B605	B	From Leg	4.000 0.000 0.000	0.000	130.000
TA08025-B605	C	From Leg	4.000 0.000 0.000	0.000	130.000
RDIDC-9181-PF-48	B	From Leg	4.000 0.000 0.000	0.000	130.000
(2) 8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	130.000
(2) 8' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	130.000
(2) 8' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	130.000
Commscope MTC3975083 (3)	C	None		0.000	130.000
***					

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	192 - 180	Leg	Max Tension	23	3.974	-0.061	-0.044
			Max. Compression	18	-6.544	0.023	-0.036
			Max. Mx	20	-1.229	-0.725	0.002
			Max. My	2	-0.889	-0.025	-0.724
			Max. Vy	20	-0.536	0.349	-0.031
			Max. Vx	2	-0.542	-0.006	0.368
		Diagonal	Max Tension	21	1.391	0.000	0.000
			Max. Compression	20	-1.445	0.000	0.000
			Max. Mx	36	0.142	0.026	0.000
			Max. My	16	1.369	0.005	-0.002

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	36	-0.029	0.026	0.000
			Max. Vx	16	-0.000	0.004	-0.002
		Top Girt	Max Tension	14	0.101	0.000	0.000
			Max. Compression	3	-0.090	0.000	0.000
			Max. Mx	26	0.001	-0.074	0.000
			Max. Vy	26	0.045	0.000	0.000
T2	180 - 160	Leg	Max Tension	23	28.833	-0.019	-0.017
			Max. Compression	2	-37.477	0.597	0.010
			Max. Mx	14	26.330	-0.654	-0.010
			Max. My	20	-5.238	-0.032	-0.650
			Max. Vy	14	-1.561	-0.006	-0.007
			Max. Vx	8	1.586	0.013	-0.045
		Diagonal	Max Tension	16	4.341	0.000	0.000
			Max. Compression	16	-4.379	0.000	0.000
			Max. Mx	27	1.271	0.049	-0.005
			Max. My	28	-1.503	0.023	0.006
			Max. Vy	27	-0.040	0.049	-0.005
			Max. Vx	28	-0.002	0.000	0.000
		Top Girt	Max Tension	3	0.875	0.000	0.000
			Max. Compression	14	-0.907	0.000	0.000
			Max. Mx	26	-0.063	-0.081	0.000
			Max. My	26	-0.059	0.000	0.002
			Max. Vy	26	0.049	0.000	0.000
			Max. Vx	26	-0.001	0.000	0.000
T3	160 - 140	Leg	Max Tension	23	59.972	0.006	-0.035
			Max. Compression	10	-73.093	0.184	0.031
			Max. Mx	14	34.827	0.900	-0.010
			Max. My	8	-5.228	-0.032	-0.927
			Max. Vy	14	0.583	-0.610	-0.005
			Max. Vx	20	0.608	-0.048	-0.591
		Diagonal	Max Tension	16	6.259	0.000	0.000
			Max. Compression	16	-6.198	0.000	0.000
			Max. Mx	27	1.374	0.094	-0.011
			Max. My	36	1.523	0.090	-0.012
			Max. Vy	27	-0.062	0.094	-0.011
			Max. Vx	36	0.004	0.000	0.000
T4	140 - 120	Leg	Max Tension	23	94.742	-0.572	-0.022
			Max. Compression	10	-115.374	0.264	0.026
			Max. Mx	22	92.204	-0.583	-0.023
			Max. My	20	-9.779	-0.022	-0.630
			Max. Vy	14	-0.966	-0.175	-0.001
			Max. Vx	20	-0.924	-0.003	-0.104
		Diagonal	Max Tension	12	7.909	0.000	0.000
			Max. Compression	12	-8.000	0.000	0.000
			Max. Mx	27	1.851	0.112	-0.014
			Max. My	30	-1.847	0.092	0.015
			Max. Vy	37	0.072	0.105	0.013
			Max. Vx	30	-0.004	0.000	0.000
T5	120 - 100	Leg	Max Tension	23	130.765	-0.346	-0.010
			Max. Compression	10	-155.991	0.809	0.052
			Max. Mx	10	-155.991	0.809	0.052
			Max. My	20	-13.108	0.006	-0.709
			Max. Vy	11	-0.126	0.808	0.052
			Max. Vx	20	0.154	0.006	-0.709
		Diagonal	Max Tension	12	8.414	0.000	0.000
			Max. Compression	12	-8.376	0.000	0.000
			Max. Mx	27	2.329	0.157	-0.019
			Max. My	30	-1.471	0.141	0.021
			Max. Vy	37	0.095	0.152	-0.020
			Max. Vx	30	-0.005	0.000	0.000
T6	100 - 80	Leg	Max Tension	23	161.382	-0.657	-0.046
			Max. Compression	10	-190.928	0.975	0.050
			Max. Mx	10	-190.928	0.975	0.050
			Max. My	20	-14.562	-0.065	-1.165
			Max. Vy	10	-0.135	0.975	0.050
			Max. Vx	20	-0.200	-0.065	-1.165
		Diagonal	Max Tension	12	9.710	0.000	0.000
			Max. Compression	12	-9.752	0.000	0.000
			Max. Mx	27	2.494	0.255	-0.033

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	36	2.827	0.249	-0.034
			Max. Vy	37	0.121	0.243	0.032
			Max. Vx	36	0.007	0.000	0.000
T7	80 - 60	Leg	Max Tension	23	194.023	-0.622	-0.035
			Max. Compression	10	-228.768	1.304	0.060
			Max. Mx	10	-228.768	1.304	0.060
			Max. My	20	-16.938	0.039	-1.144
			Max. Vy	10	-0.168	1.304	0.060
			Max. Vx	20	0.169	-0.068	-0.921
		Diagonal	Max Tension	12	10.530	0.000	0.000
			Max. Compression	12	-10.675	0.000	0.000
			Max. Mx	27	2.639	0.327	-0.040
			Max. My	36	2.541	0.314	-0.041
			Max. Vy	29	0.148	0.316	-0.038
			Max. Vx	36	0.008	0.000	0.000
T8	60 - 40	Leg	Max Tension	23	223.413	-1.413	-0.029
			Max. Compression	18	-264.351	1.210	-0.011
			Max. Mx	37	11.061	-2.022	-0.023
			Max. My	20	-19.035	-0.072	-1.379
			Max. Vy	33	0.304	-2.007	0.013
			Max. Vx	20	0.170	-0.072	-1.379
		Diagonal	Max Tension	12	10.218	0.000	0.000
			Max. Compression	12	-10.210	0.000	0.000
			Max. Mx	29	2.535	0.391	0.056
			Max. My	30	-1.348	0.366	0.058
			Max. Vy	29	0.173	0.391	0.056
			Max. Vx	30	-0.010	0.000	0.000
T9	40 - 20	Leg	Max Tension	23	252.789	-1.263	-0.024
			Max. Compression	18	-300.008	2.045	-0.027
			Max. Mx	37	13.080	-4.029	-0.015
			Max. My	20	-20.782	-0.124	-1.699
			Max. Vy	33	0.656	-4.004	0.012
			Max. Vx	20	-0.236	-0.124	-1.699
		Diagonal	Max Tension	12	11.808	0.000	0.000
			Max. Compression	12	-12.104	0.000	0.000
			Max. Mx	27	2.275	0.463	-0.050
			Max. My	30	3.914	0.413	0.055
			Max. Vy	29	0.179	0.414	-0.053
			Max. Vx	30	-0.009	0.000	0.000
T10	20 - 0	Leg	Max Tension	23	281.325	-1.318	-0.033
			Max. Compression	18	-335.562	0.000	0.000
			Max. Mx	35	-149.218	4.060	0.017
			Max. My	20	-24.293	-0.212	-3.079
			Max. Vy	33	-0.780	-4.004	0.012
			Max. Vx	20	-0.438	-0.212	-3.079
		Diagonal	Max Tension	12	12.212	0.000	0.000
			Max. Compression	10	-12.724	0.000	0.000
			Max. Mx	29	-0.247	0.589	0.059
			Max. My	30	5.364	0.419	0.069
			Max. Vy	29	0.198	0.589	0.059
			Max. Vx	30	-0.010	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	344.410	33.609	-19.898
	Max. H_x	18	344.410	33.609	-19.898
	Max. H_z	7	-287.865	-28.853	17.132
	Min. Vert	7	-287.865	-28.853	17.132
	Min. H_x	7	-287.865	-28.853	17.132
	Min. H_z	18	344.410	33.609	-19.898
Leg B	Max. Vert	10	343.810	-33.386	-20.047
	Max. H_x	23	-288.305	28.640	17.299

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg A	Max. H_z	23	-288.305	28.640	17.299
	Min. Vert	23	-288.305	28.640	17.299
	Min. H_x	10	343.810	-33.386	-20.047
	Min. H_z	10	343.810	-33.386	-20.047
	Max. Vert	2	337.922	0.391	38.241
	Max. H_x	21	19.003	5.611	1.576
	Max. H_z	2	337.922	0.391	38.241
	Min. Vert	15	-280.776	-0.402	-32.727
	Min. H_x	8	25.161	-5.622	2.085
	Min. H_z	15	-280.776	-0.402	-32.727

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	62.024	0.000	0.000	-7.718	6.204	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	74.429	-0.011	-60.909	-6792.636	9.089	17.214
0.9 Dead+1.0 Wind 0 deg - No Ice	55.822	-0.011	-60.909	-6790.320	7.228	17.214
1.2 Dead+1.0 Wind 30 deg - No Ice	74.429	29.313	-50.789	-5700.317	-3275.027	18.230
0.9 Dead+1.0 Wind 30 deg - No Ice	55.822	29.313	-50.789	-5698.002	-3276.889	18.230
1.2 Dead+1.0 Wind 60 deg - No Ice	74.429	51.156	-29.532	-3335.257	-5750.991	-18.192
0.9 Dead+1.0 Wind 60 deg - No Ice	55.822	51.156	-29.532	-3332.942	-5752.853	-18.192
1.2 Dead+1.0 Wind 90 deg - No Ice	74.429	60.670	0.011	-7.616	-6830.379	-54.029
0.9 Dead+1.0 Wind 90 deg - No Ice	55.822	60.670	0.011	-5.301	-6832.240	-54.029
1.2 Dead+1.0 Wind 120 deg - No Ice	74.429	53.764	31.050	3458.904	-5993.947	-28.868
0.9 Dead+1.0 Wind 120 deg - No Ice	55.822	53.764	31.050	3461.220	-5995.808	-28.868
1.2 Dead+1.0 Wind 150 deg - No Ice	74.429	29.521	51.127	5742.482	-3311.965	-11.407
0.9 Dead+1.0 Wind 150 deg - No Ice	55.822	29.521	51.127	5744.798	-3313.826	-11.407
1.2 Dead+1.0 Wind 180 deg - No Ice	74.429	0.011	57.673	6492.497	5.800	-17.214
0.9 Dead+1.0 Wind 180 deg - No Ice	55.822	0.011	57.673	6494.812	3.938	-17.214
1.2 Dead+1.0 Wind 210 deg - No Ice	74.429	-29.313	50.789	5681.794	3289.916	-18.230
0.9 Dead+1.0 Wind 210 deg - No Ice	55.822	-29.313	50.789	5684.110	3288.055	-18.230
1.2 Dead+1.0 Wind 240 deg - No Ice	74.429	-53.958	31.150	3457.543	6009.767	18.192
0.9 Dead+1.0 Wind 240 deg - No Ice	55.822	-53.958	31.150	3459.858	6007.906	18.192
1.2 Dead+1.0 Wind 270 deg - No Ice	74.429	-60.670	-0.011	-10.906	6845.268	54.029
0.9 Dead+1.0 Wind 270 deg - No Ice	55.822	-60.670	-0.011	-8.591	6843.407	54.029
1.2 Dead+1.0 Wind 300 deg - No Ice	74.429	-50.961	-29.432	-3336.619	5764.950	28.868
0.9 Dead+1.0 Wind 300 deg - No Ice	55.822	-50.961	-29.432	-3334.304	5763.088	28.868
1.2 Dead+1.0 Wind 330 deg - No Ice	74.429	-29.521	-51.127	-5761.005	3326.854	11.407
0.9 Dead+1.0 Wind 330 deg - No Ice	55.822	-29.521	-51.127	-5758.690	3324.993	11.407

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Ice+1.0 Temp	220.895	0.000	0.000	-71.508	-28.929	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	220.895	-0.002	-17.194	-2018.813	-28.655	5.112
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	220.895	8.445	-14.628	-1737.422	-990.375	3.627
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	220.895	14.696	-8.483	-1042.220	-1710.157	-6.382
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	220.895	17.247	0.002	-71.235	-2003.428	-12.055
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	220.895	15.199	8.775	927.947	-1759.397	-6.945
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	220.895	8.533	14.776	1613.863	-1001.925	-2.600
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	220.895	0.002	16.784	1841.407	-29.202	-5.112
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	220.895	-8.445	14.628	1594.405	932.518	-3.627
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	220.895	-15.051	8.688	916.397	1682.082	6.382
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	220.895	-17.247	-0.002	-71.782	1945.571	12.055
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	220.895	-14.844	-8.570	-1053.770	1671.759	6.945
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	220.895	-8.533	-14.776	-1756.880	944.068	2.600
Dead+Wind 0 deg - Service	62.024	-0.002	-13.958	-1545.840	6.573	3.872
Dead+Wind 30 deg - Service	62.024	6.723	-11.648	-1298.620	-738.368	4.095
Dead+Wind 60 deg - Service	62.024	11.731	-6.772	-762.049	-1299.807	-4.078
Dead+Wind 90 deg - Service	62.024	13.904	0.002	-7.349	-1544.127	-12.120
Dead+Wind 120 deg - Service	62.024	12.315	7.113	778.492	-1354.285	-6.483
Dead+Wind 150 deg - Service	62.024	6.770	11.724	1296.793	-746.650	-2.570
Dead+Wind 180 deg - Service	62.024	0.002	13.232	1467.258	5.835	-3.872
Dead+Wind 210 deg - Service	62.024	-6.723	11.648	1283.185	750.775	-4.095
Dead+Wind 240 deg - Service	62.024	-12.359	7.135	778.187	1366.901	4.078
Dead+Wind 270 deg - Service	62.024	-13.904	-0.002	-8.087	1556.535	12.120
Dead+Wind 300 deg - Service	62.024	-11.687	-6.750	-762.354	1312.006	6.483
Dead+Wind 330 deg - Service	62.024	-6.770	-11.724	-1312.228	759.058	2.570

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.000	-62.024	0.000	0.000	62.024	-0.000	0.000%
2	-0.011	-74.429	-60.909	0.011	74.429	60.909	0.000%
3	-0.011	-55.822	-60.909	0.011	55.822	60.909	0.000%
4	29.313	-74.429	-50.789	-29.313	74.429	50.789	0.000%
5	29.313	-55.822	-50.789	-29.313	55.822	50.789	0.000%
6	51.156	-74.429	-29.532	-51.156	74.429	29.532	0.000%
7	51.156	-55.822	-29.532	-51.156	55.822	29.532	0.000%
8	60.670	-74.429	0.011	-60.670	74.429	-0.011	0.000%
9	60.670	-55.822	0.011	-60.670	55.822	-0.011	0.000%
10	53.764	-74.429	31.050	-53.764	74.429	-31.050	0.000%
11	53.764	-55.822	31.050	-53.764	55.822	-31.050	0.000%
12	29.521	-74.429	51.127	-29.521	74.429	-51.127	0.000%
13	29.521	-55.822	51.127	-29.521	55.822	-51.127	0.000%
14	0.011	-74.429	57.673	-0.011	74.429	-57.673	0.000%
15	0.011	-55.822	57.673	-0.011	55.822	-57.673	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
16	-29.313	-74.429	50.789	29.313	74.429	-50.789	0.000%
17	-29.313	-55.822	50.789	29.313	55.822	-50.789	0.000%
18	-53.958	-74.429	31.150	53.958	74.429	-31.150	0.000%
19	-53.958	-55.822	31.150	53.958	55.822	-31.150	0.000%
20	-60.670	-74.429	-0.011	60.670	74.429	0.011	0.000%
21	-60.670	-55.822	-0.011	60.670	55.822	0.011	0.000%
22	-50.961	-74.429	-29.432	50.961	74.429	29.432	0.000%
23	-50.961	-55.822	-29.432	50.961	55.822	29.432	0.000%
24	-29.521	-74.429	-51.127	29.521	74.429	51.127	0.000%
25	-29.521	-55.822	-51.127	29.521	55.822	51.127	0.000%
26	0.000	-220.895	0.000	-0.000	220.895	-0.000	0.000%
27	-0.002	-220.895	-17.194	0.002	220.895	17.194	0.000%
28	8.445	-220.895	-14.628	-8.445	220.895	14.628	0.000%
29	14.696	-220.895	-8.483	-14.696	220.895	8.483	0.000%
30	17.247	-220.895	0.002	-17.247	220.895	-0.002	0.000%
31	15.199	-220.895	8.775	-15.199	220.895	-8.775	0.000%
32	8.533	-220.895	14.776	-8.533	220.895	-14.776	0.000%
33	0.002	-220.895	16.784	-0.002	220.895	-16.784	0.000%
34	-8.445	-220.895	14.628	8.445	220.895	-14.628	0.000%
35	-15.051	-220.895	8.688	15.051	220.895	-8.688	0.000%
36	-17.247	-220.895	-0.002	17.247	220.895	0.002	0.000%
37	-14.844	-220.895	-8.570	14.844	220.895	8.570	0.000%
38	-8.533	-220.895	-14.776	8.533	220.895	14.776	0.000%
39	-0.002	-62.024	-13.958	0.002	62.024	13.958	0.000%
40	6.723	-62.024	-11.648	-6.723	62.024	11.648	0.000%
41	11.731	-62.024	-6.772	-11.731	62.024	6.772	0.000%
42	13.904	-62.024	0.002	-13.904	62.024	-0.002	0.000%
43	12.315	-62.024	7.113	-12.315	62.024	-7.113	0.000%
44	6.770	-62.024	11.724	-6.770	62.024	-11.724	0.000%
45	0.002	-62.024	13.232	-0.002	62.024	-13.232	0.000%
46	-6.723	-62.024	11.648	6.723	62.024	-11.648	0.000%
47	-12.359	-62.024	7.135	12.359	62.024	-7.135	0.000%
48	-13.904	-62.024	-0.002	13.904	62.024	0.002	0.000%
49	-11.687	-62.024	-6.750	11.687	62.024	6.750	0.000%
50	-6.770	-62.024	-11.724	6.770	62.024	11.724	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	192 - 180	4.283	48	0.204	0.025
T2	180 - 160	3.768	48	0.202	0.025
T3	160 - 140	2.944	47	0.178	0.021
T4	140 - 120	2.236	47	0.150	0.018
T5	120 - 100	1.634	47	0.124	0.014
T6	100 - 80	1.135	47	0.101	0.011
T7	80 - 60	0.737	47	0.077	0.008
T8	60 - 40	0.431	47	0.057	0.006
T9	40 - 20	0.210	47	0.039	0.004
T10	20 - 0	0.063	47	0.020	0.002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
190.000	APXVTM14-ALU-I20 w/ Mount Pipe	48	4.197	0.204	0.025	777453
180.000	MT6407-77A w/ Mount Pipe	48	3.768	0.202	0.025	247987
171.000	(3) 7130.16.33.00 w/ Mount Pipe	47	3.387	0.194	0.024	64048

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
162.000	HBX-6516DS-VTM w/ Mount Pipe	47	3.022	0.181	0.022	35977
156.000	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	47	2.793	0.172	0.021	34662
140.000	7770.00 w/ Mount Pipe	47	2.236	0.150	0.018	47439
130.000	MX08FRO665-21 w/ Mount Pipe	47	1.923	0.137	0.016	46764
98.000	58532A	47	1.091	0.099	0.010	46732

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	192 - 180	19.005	11	0.902	0.110
T2	180 - 160	16.727	11	0.892	0.110
T3	160 - 140	13.064	11	0.789	0.095
T4	140 - 120	9.909	11	0.666	0.080
T5	120 - 100	7.230	18	0.550	0.063
T6	100 - 80	5.016	18	0.447	0.047
T7	80 - 60	3.254	18	0.343	0.035
T8	60 - 40	1.900	18	0.253	0.025
T9	40 - 20	0.924	18	0.171	0.016
T10	20 - 0	0.276	18	0.087	0.007

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
190.000	APXVTM14-ALU-I20 w/ Mount Pipe	11	18.625	0.902	0.110	202735
180.000	MT6407-77A w/ Mount Pipe	11	16.727	0.892	0.110	61992
171.000	(3) 7130.16.33.00 w/ Mount Pipe	11	15.037	0.856	0.105	14907
162.000	HBX-6516DS-VTM w/ Mount Pipe	11	13.411	0.802	0.097	8276
156.000	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	11	12.388	0.764	0.092	7962
140.000	7770.00 w/ Mount Pipe	11	9.909	0.666	0.080	10766
130.000	MX08FRO665-21 w/ Mount Pipe	11	8.513	0.606	0.072	10575
98.000	58532A	18	4.820	0.437	0.046	10528

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	192	Leg	A325N	0.625	4	0.993	20.340	0.049	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	1.391	7.116	0.196	1.05	Member Block Shear
		Top Girt	A325N	0.625	1	0.101	7.116	0.014	1.05	Member Block Shear
T2	180	Leg	A325N	0.625	4	7.208	20.340	0.354	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	4.341	8.135	0.534	1.05	Member Block Shear
		Top Girt	A325N	0.625	1	0.875	8.135	0.108	1.05	Member Block

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
										Shear
T3	160	Leg	A325N	0.875	4	14.993	41.556	0.361	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	6.259	11.310	0.553	1.05	Member Bearing
T4	140	Leg	A325N	1.000	4	23.686	54.517	0.434	1.05	Bolt Tension
		Diagonal	A325N	0.625	1	7.909	11.310	0.699	1.05	Member Bearing
T5	120	Leg	A325N	1.000	6	21.794	54.517	0.400	1.05	Bolt Tension
		Diagonal	A325N	0.750	1	8.414	13.485	0.624	1.05	Gusset Bearing
T6	100	Leg	A325N	1.000	6	26.897	54.517	0.493	1.05	Bolt Tension
		Diagonal	A325N	0.750	1	9.710	13.485	0.720	1.05	Gusset Bearing
T7	80	Leg	A325N	1.000	8	24.253	54.517	0.445	1.05	Bolt Tension
		Diagonal	A325N	0.750	1	10.530	13.485	0.781	1.05	Gusset Bearing
T8	60	Leg	A325N	1.000	8	27.927	54.517	0.512	1.05	Bolt Tension
		Diagonal	A325X	0.750	1	10.218	13.485	0.758	1.05	Gusset Bearing
T9	40	Leg	A325N	1.000	8	31.599	54.517	0.580	1.05	Bolt Tension
		Diagonal	A325X	0.750	1	11.808	13.485	0.876	1.05	Gusset Bearing
T10	20	Leg	A354-BC	1.000	10	28.133	56.788	0.495	1.05	Bolt Tension
		Diagonal	A325X	0.750	1	12.212	13.485	0.906	1.05	Gusset Bearing

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	192 - 180	ROHN 2.5 STD	12.000	4.000	50.7 K=1.00	1.704	-6.544	63.560	0.103 [1]
T2	180 - 160	ROHN 2.5 STD	20.032	5.008	63.4 K=1.00	1.704	-37.477	57.139	0.656 [1]
T3	160 - 140	ROHN 3 EH	20.036	6.679	70.5 K=1.00	3.016	-73.093	94.337	0.775 [1]
T4	140 - 120	ROHN 4 EH	20.038	6.679	54.3 K=1.00	4.407	-115.374	159.899	0.722 [1]
T5	120 - 100	ROHN 5 EH	20.036	6.679	43.6 K=1.00	6.112	-155.991	239.378	0.652 [1]
T6	100 - 80	ROHN 6 EHS	20.036	10.018	54.0 K=1.00	6.713	-190.928	244.047	0.782 [1]
T7	80 - 60	ROHN 6 EH	20.032	10.016	54.8 K=1.00	8.405	-228.768	303.757	0.753 [1]
T8	60 - 40	ROHN 8 EHS	20.042	10.021	41.2 K=1.00	9.719	-264.351	386.354	0.684 [1]
T9	40 - 20	ROHN 8 EHS	20.031	10.015	41.2 K=1.00	9.719	-300.008	386.409	0.776 [1]
T10	20 - 0	ROHN 8 EHS	20.033	10.017	41.2 K=1.00	9.719	-335.562	386.397	0.868 [1]

[1] P_u / ϕP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	192 - 180	L1 3/4x1 3/4x3/16	7.700	3.585	125.3 K=1.00	0.621	-1.445	11.328	0.128 [1]

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T2	180 - 160	L2x2x3/16	9.686	4.721	143.8 K=1.00	0.715	-4.274	9.897	0.432 [1]
T3	160 - 140	L2 1/2x2 1/2x1/4	12.241	6.028	147.3 K=1.00	1.190	-6.177	15.695	0.394 [1]
T4	140 - 120	L2 1/2x2 1/2x1/4	14.067	6.897	168.6 K=1.00	1.190	-8.000	11.987	0.667 [1]
T5	120 - 100	L3x3x1/4	15.944	7.773	157.6 K=1.00	1.440	-8.376	16.602	0.505 [1]
T6	100 - 80	L3 1/2x3 1/2x1/4	19.209	9.452	163.4 K=1.00	1.690	-9.752	18.110	0.538 [1]
T7	80 - 60	L4x4x1/4	20.935	10.297	155.4 K=1.00	1.940	-10.675	22.986	0.464 [1]
T8	60 - 40	L4x4x5/16	22.872	11.214	170.1 K=1.00	2.400	-10.210	23.735	0.430 [1]
T9	40 - 20	L4x4x5/16	24.688	12.078	183.2 K=1.00	2.400	-12.104	20.461	0.592 [1]
T10	20 - 0	L4x4x3/8	26.510	13.002	198.0 K=1.00	2.860	-12.724	20.882	0.609 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T1	192 - 180	L1 3/4x1 3/4x3/16	6.580	6.090	212.8 K=1.00	0.621	-0.090	3.926	0.023 [1]
T2	180 - 160	KL/R > 200 (C) - 4 L2x2x3/16	6.580	6.090	185.5 K=1.00	0.715	-0.907	5.948	0.153 [1]

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T1	192 - 180	ROHN 2.5 STD	12.000	4.000	50.7	1.704	3.974	76.682	0.052 [1]
T2	180 - 160	ROHN 2.5 STD	20.032	5.008	63.4	1.704	28.833	76.682	0.376 [1]
T3	160 - 140	ROHN 3 EH	20.036	6.679	70.5	3.016	59.972	135.717	0.442 [1]
T4	140 - 120	ROHN 4 EH	20.038	6.679	54.3	4.407	94.742	198.335	0.478 [1]
T5	120 - 100	ROHN 5 EH	20.036	6.679	43.6	6.112	130.765	275.039	0.475 [1]
T6	100 - 80	ROHN 6 EHS	20.036	10.018	54.0	6.713	161.382	302.097	0.534 [1]
T7	80 - 60	ROHN 6 EH	20.032	10.016	54.8	8.405	194.023	378.222	0.513 [1]
T8	60 - 40	ROHN 8 EHS	20.042	10.021	41.2	9.719	223.413	437.369	0.511 [1]
T9	40 - 20	ROHN 8 EHS	20.031	10.015	41.2	9.719	252.789	437.369	0.578 [1]
T10	20 - 0	ROHN 8 EHS	20.033	10.017	41.2	9.719	281.325	437.369	0.643 [1]

[1] P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	192 - 180	L1 3/4x1 3/4x3/16	7.700	3.585	82.9	0.360	1.391	15.675	0.089 [1]
T2	180 - 160	L2x2x3/16	9.686	4.721	94.3	0.431	4.341	18.739	0.232 [1]
T3	160 - 140	L2 1/2x2 1/2x1/4	11.669	5.746	91.6	0.752	6.259	32.707	0.191 [1]
T4	140 - 120	L2 1/2x2 1/2x1/4	14.067	6.897	109.6	0.752	7.909	32.707	0.242 [1]
T5	120 - 100	L3x3x1/4	15.944	7.773	102.0	0.916	8.414	44.652	0.188 [1]
T6	100 - 80	L3 1/2x3 1/2x1/4	19.209	9.452	105.5	1.103	9.710	53.793	0.181 [1]
T7	80 - 60	L4x4x1/4	20.935	10.297	100.1	1.291	10.530	62.933	0.167 [1]
T8	60 - 40	L4x4x5/16	22.872	11.214	109.8	1.595	10.218	77.752	0.131 [1]
T9	40 - 20	L4x4x5/16	24.688	12.078	118.2	1.595	11.808	77.752	0.152 [1]
T10	20 - 0	L4x4x3/8	26.510	13.002	128.2	1.899	12.212	92.572	0.132 [1]

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	192 - 180	L1 3/4x1 3/4x3/16	6.580	6.090	141.7	0.360	0.101	15.675	0.006 [1]
T2	180 - 160	L2x2x3/16	6.580	6.090	123.3	0.431	0.875	18.739	0.047 [1]

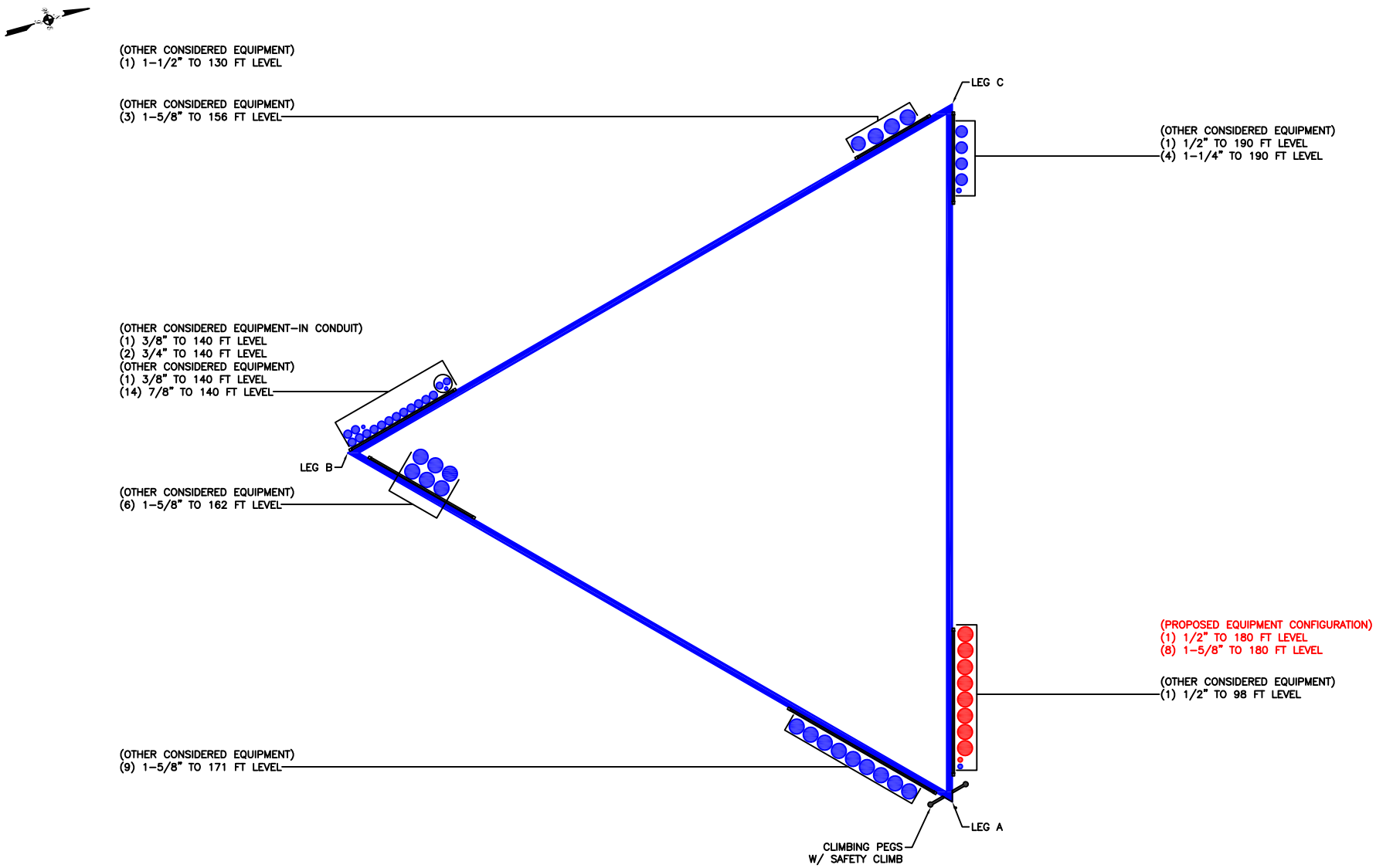
[1] P_u / ϕP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	192 - 180	Leg	ROHN 2.5 STD	1	-6.544	66.738	9.8	Pass
T2	180 - 160	Leg	ROHN 2.5 STD	27	-37.477	59.996	62.5	Pass
T3	160 - 140	Leg	ROHN 3 EH	56	-73.093	99.054	73.8	Pass
T4	140 - 120	Leg	ROHN 4 EH	77	-115.374	167.894	68.7	Pass
T5	120 - 100	Leg	ROHN 5 EH	98	-155.991	251.347	62.1	Pass
T6	100 - 80	Leg	ROHN 6 EHS	119	-190.928	256.249	74.5	Pass
T7	80 - 60	Leg	ROHN 6 EH	134	-228.768	318.945	71.7	Pass
T8	60 - 40	Leg	ROHN 8 EHS	148	-264.351	405.672	65.2	Pass
T9	40 - 20	Leg	ROHN 8 EHS	163	-300.008	405.729	73.9	Pass
T10	20 - 0	Leg	ROHN 8 EHS	178	-335.562	405.717	82.7	Pass
T1	192 - 180	Diagonal	L1 3/4x1 3/4x3/16	7	-1.445	11.895	12.1	Pass
T2	180 - 160	Diagonal	L2x2x3/16	36	-4.274	10.392	41.1	Pass
T3	160 - 140	Diagonal	L2 1/2x2 1/2x1/4	63	-6.177	16.480	37.5	Pass
T4	140 - 120	Diagonal	L2 1/2x2 1/2x1/4	81	-8.000	12.587	63.6	Pass
T5	120 - 100	Diagonal	L3x3x1/4	102	-8.376	17.432	48.0	Pass
T6	100 - 80	Diagonal	L3 1/2x3 1/2x1/4	123	-9.752	19.016	51.3	Pass
T7	80 - 60	Diagonal	L4x4x1/4	138	-10.675	24.136	44.2	Pass
T8	60 - 40	Diagonal	L4x4x5/16	153	-10.210	24.922	41.0	Pass
T9	40 - 20	Diagonal	L4x4x5/16	168	-12.104	21.484	56.3	Pass
T10	20 - 0	Diagonal	L4x4x3/8	183	-12.724	21.926	58.0	Pass
T1	192 - 180	Top Girt	L1 3/4x1 3/4x3/16	4	-0.090	4.122	2.2	Pass
T2	180 - 160	Top Girt	L2x2x3/16	28	-0.907	6.245	14.5	Pass
							Summary	
						Leg (T10)	82.7	Pass
						Diagonal (T4)	63.6	Pass
						Top Girt (T2)	14.5	Pass
						Bolt Checks	86.2	Pass
						RATING =	**86.2**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/2" TO 130 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(3) 1-5/8" TO 156 FT LEVEL
LEG C
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 190 FT LEVEL
(4) 1-1/4" TO 190 FT LEVEL
(OTHER CONSIDERED EQUIPMENT-IN CONDUIT)
(1) 3/8" TO 140 FT LEVEL
(2) 3/4" TO 140 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 140 FT LEVEL
(14) 7/8" TO 140 FT LEVEL
LEG B
(OTHER CONSIDERED EQUIPMENT)
(6) 1-5/8" TO 162 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(1) 1/2" TO 180 FT LEVEL
(8) 1-5/8" TO 180 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 98 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(9) 1-5/8" TO 171 FT LEVEL
LEG A
CLIMBING PEGS
W/ SAFETY CLIMB

APPENDIX C

ADDITIONAL CALCULATIONS

Self Support Anchor Rod Capacity

Site Info	
BU #	876345
Site Name	SKY HILL
Order #	585797, Rev. 0

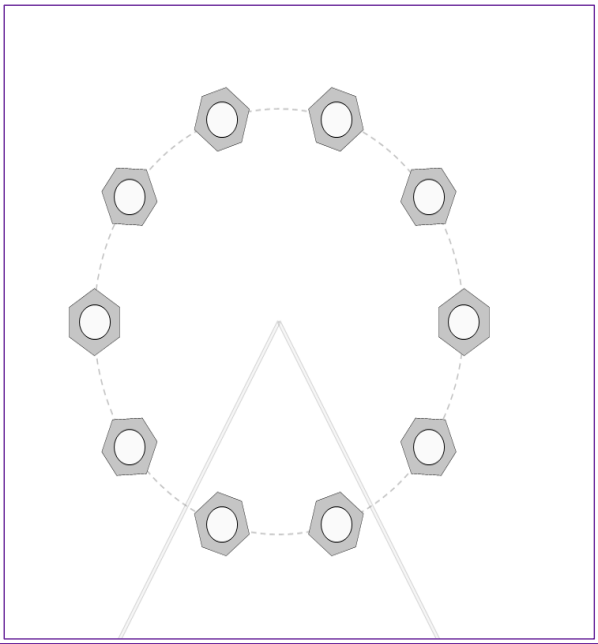
Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	1.5

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	344.41	288.31
Shear Force (kips)	39.06	33.46

**TIA-222-H Section 15.5 Applied*

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

**Anchor Rod Eccentricity Applied*



Connection Properties

Anchor Rod Data

(10) 1" ø bolts (A354-BC N; Fy=109 ksi, Fu=125 ksi)

l_{ar} (in): 1.5

Analysis Results

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

Pu_t = 28.83	ϕPn_t = 56.81	**Stress Rating**
Vu = 3.35	ϕVn = 36.82	**48.3%**
Mu = n/a	ϕMn = n/a	**Pass**

Drilled Pier Foundation

BU # :	876345
Site Name:	SKY HILL
Order Number:	585797, Rev. 0
TIA-222 Revison:	H
Tower Type:	Self Support

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

Go to Soil Calculations

Applied Loads	Comp.	Uplift
Moment (kip-ft)	0	0
Axial Force (kips)	344.41	288.3
Shear Force (kips)	39.06	33.46

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	26	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 26' below grade		
Pier Diameter	5	ft
Rebar Quantity	18	
Rebar Size	9	
Rebar Cage Diameter	54	in
Tie Size	5	
Tie Spacing		in

Rebar & Pier Options
Embedded Pole Inputs
Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	11.53	11.53
Soil Safety Factor	36.00	42.02
Max Moment (kip-ft)	311.37	266.73
Rating*	*3.5%*	*3.0%*
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	519.54	519.54
End Bearing (kips)	375.00	-
Weight of Concrete (kips)	93.66	70.24
Total Capacity (kips)	894.54	589.78
Axial (kips)	438.07	288.30
Rating*	*46.6%*	*46.6%*
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	11.85	10.72
Critical Moment (kip-ft)	311.09	265.18
Critical Moment Capacity	2438.95	1667.43
Rating*	*12.1%*	*15.1%*
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	19.01	0.00
Critical Shear (kip)	41.59	33.46
Critical Shear Capacity	425.54	208.06
Rating*	*9.3%*	*15.3%*

Structural Foundation Rating*	**15.3%**
Soil Interaction Rating*	**46.6%**

*Rating per TIA-222-H Section 15.5

Soil Profile

Groundwater Depth	N/A

# of Layers	4

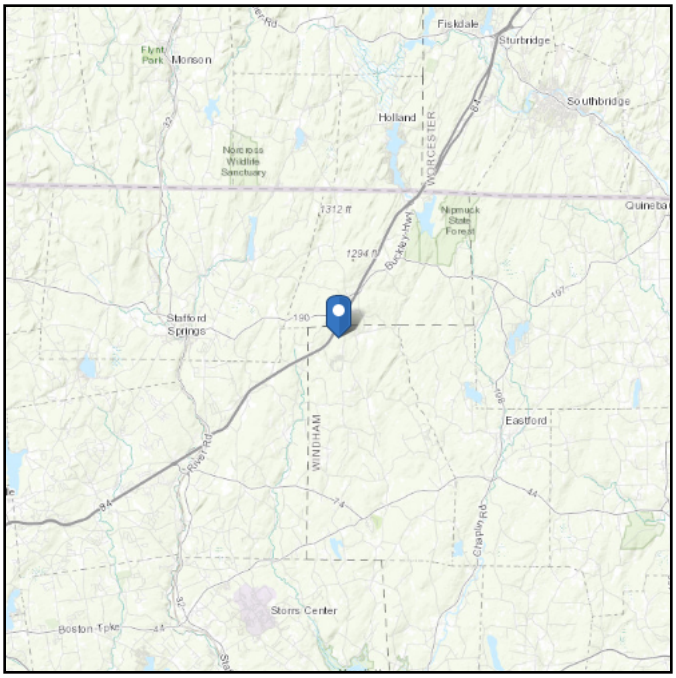
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	120	150			0.000	0.000					Cohesionless
2	2	3.33	1.33	130	150			0.000	0.000					Cohesionless
3	3.33	5	1.67	130	150	3		1.650	1.650	0.00	0.00			Cohesive
4	5	26	21	135	150	5		2.321	2.321	2.10	2.10	25.46479		Cohesive

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 1068.03 ft (NAVD 88)
Latitude: 41.952139
Longitude: -72.195528



Wind

Results:

Wind Speed:	125 Vmph	130 mph per jurisdiction
10-year MRI	77 Vmph	
25-year MRI	87 Vmph	
50-year MRI	94 Vmph	
100-year MRI	101 Vmph	

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014

Date Accessed: Mon Aug 31 2020

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 7-10 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 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

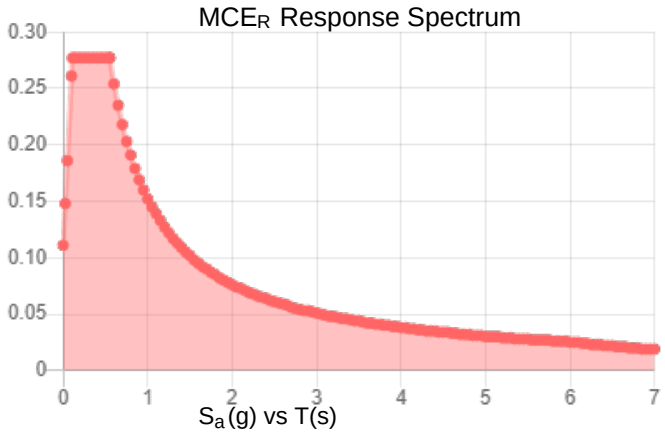
Seismic

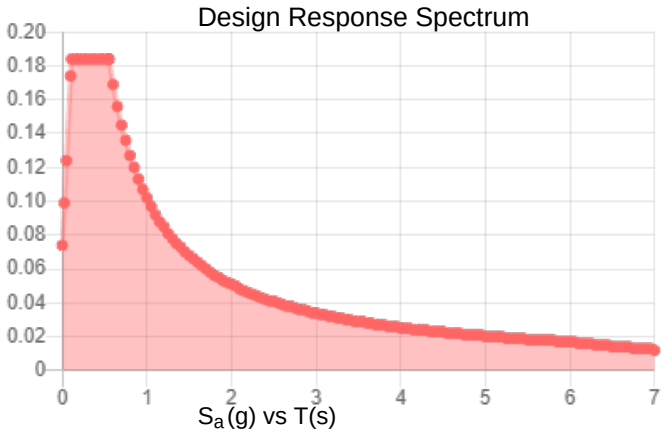
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.173	S_{DS} :	0.184
S_1 :	0.064	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.085
S_{MS} :	0.277	PGA_M :	0.136
S_{M1} :	0.152	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Mon Aug 31 2020

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Mon Aug 31 2020

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

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

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Exhibit E

Mount Analysis

Maser Consulting Connecticut
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
(215)962-5934
Peter.Albano@colliersengineering.com

Antenna Mount Analysis Report with Hardware Upgrades

Mount Analysis

SMART Tool Project #: 10052227
Maser Consulting Connecticut Project #: 21777346A

August 30, 2021

Site Information	*Site ID:*	*467575-VZW / WESTFORD CT*
	Site Name:	*WESTFORD CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*264 Janoski Rd* *Ashford, Connecticut 06278* *Windham County*
	Latitude:	*41.952139°*
	Longitude:	*-72.195528°*
Structure Information	*Tower Type:*	*Self Support*
	Mount Type:	*16.00-Ft Sector Frame*

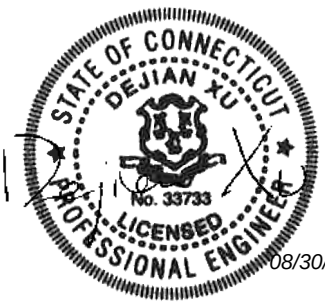
FUZE ID # 16272060

Analysis Results

Sector Frame: **73.0% Pass***
*Results valid after hardware upgrades noted in the PMI Requirements are installed.

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

Report Prepared By: Cody Sherman



08/30/2021

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: 325105, dated August 13, 2021*
Mount Mapping Report	*RKS Design & Engineering LLC. Site ID: CC: 876345, dated March 23, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	118 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.962
Seismic Parameters:	S_S:	0.178
	S_1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
180.00	182.50	3	Samsung	MT6407-77A	Added
	181.00	6	Commscope	JAHH-65B-R3B	Retained
		6	Antel	LPA-80080/4CF	
		2	Raycap	RRFDC-3315-PF-48*	
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
	179.00	3	Samsung	XXDWMM-12.5-65-8T-CBRS	

* Equipment is flush mounted directly to the Self Support. They are not mounted on sector frame mounts and are not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

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

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

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

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

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

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

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
Face Horizontal	33.0%	Pass
Standoff Horizontal	23.0%	Pass
Mount Pipe	23.0%	Pass
Standoff Bracing	11.0%	Pass
Standoff Plates	73.0%	Pass
Tie-back	10.0%	Pass
Mount Connection	28.8%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**73.0%**

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading configuration upon completion of the recommendations listed in the Special Instructions section of the below referenced PMI document.

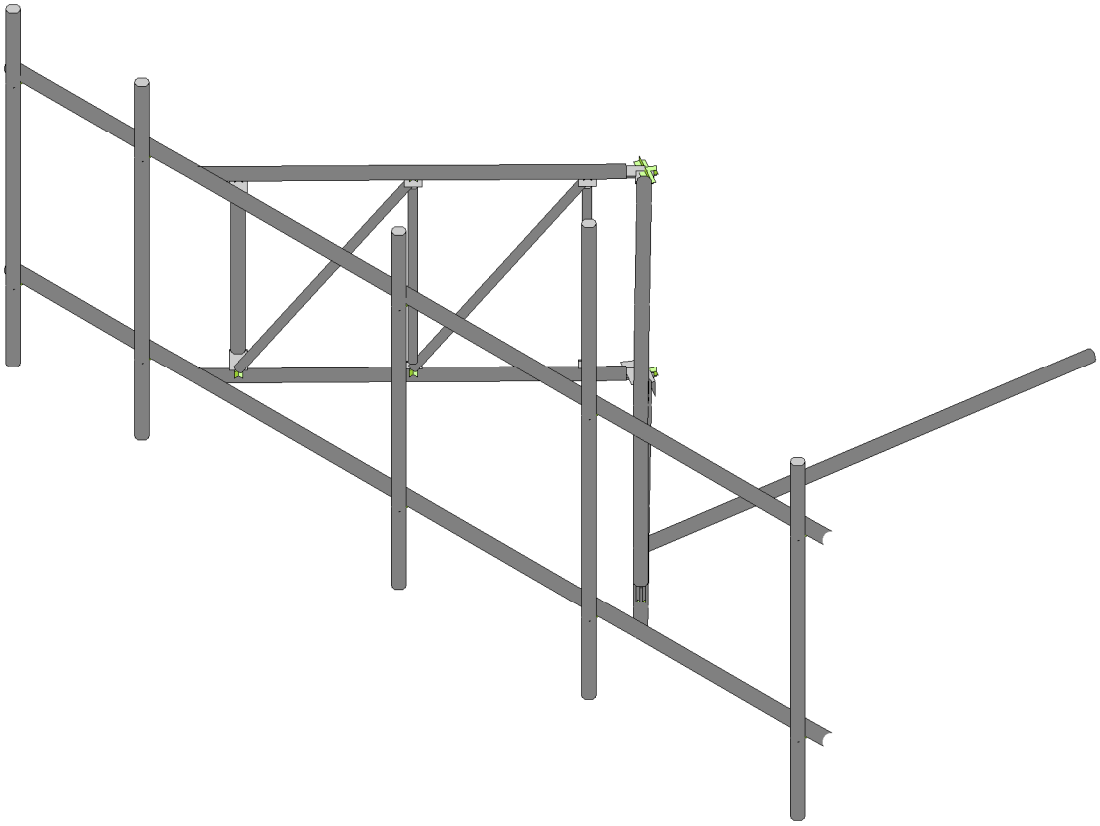
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

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


03/23/2021


RADIO FREQUENCY SYSTEMS
Strikesorb
03/23/2021



Envelope Only Solution

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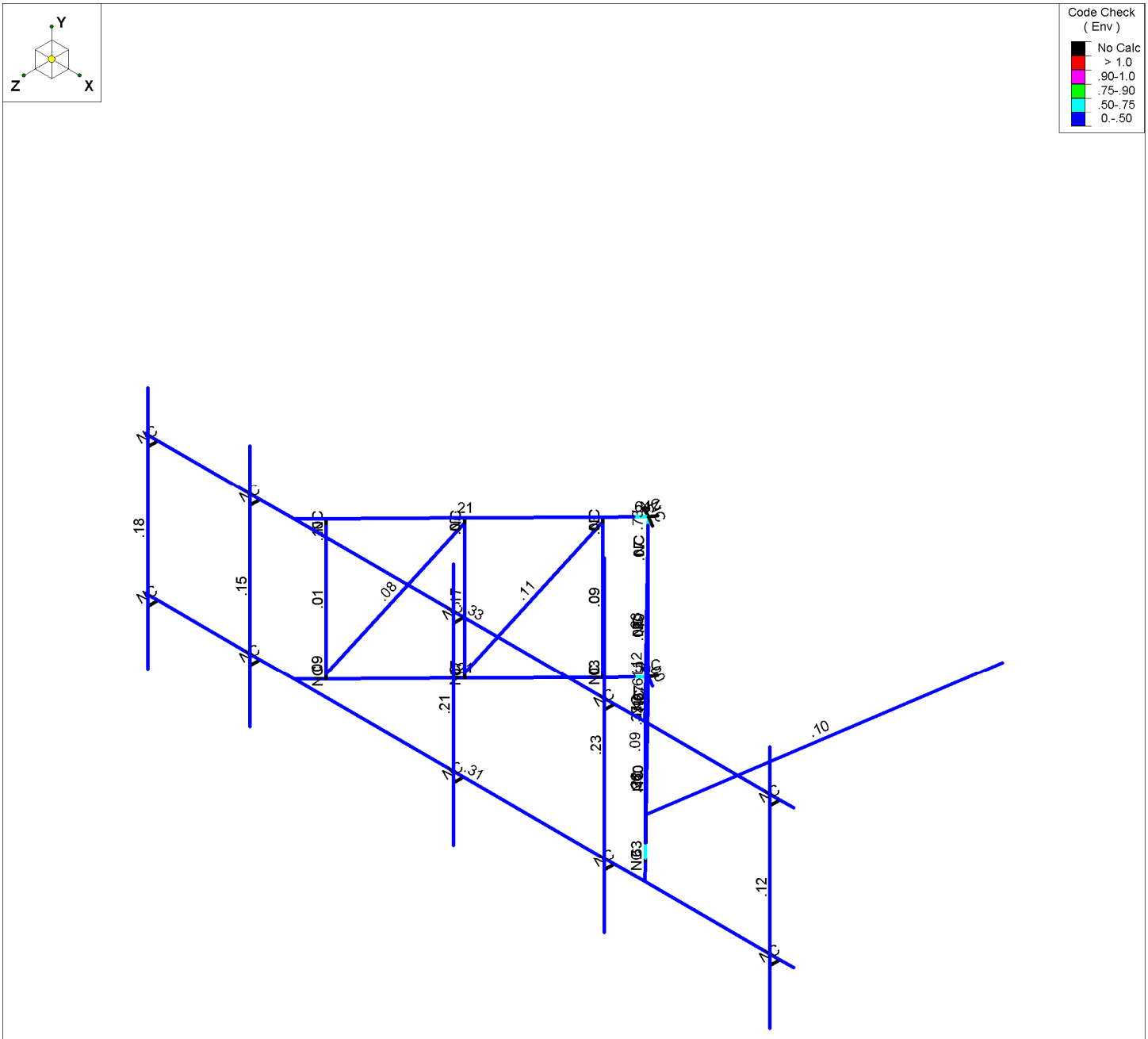

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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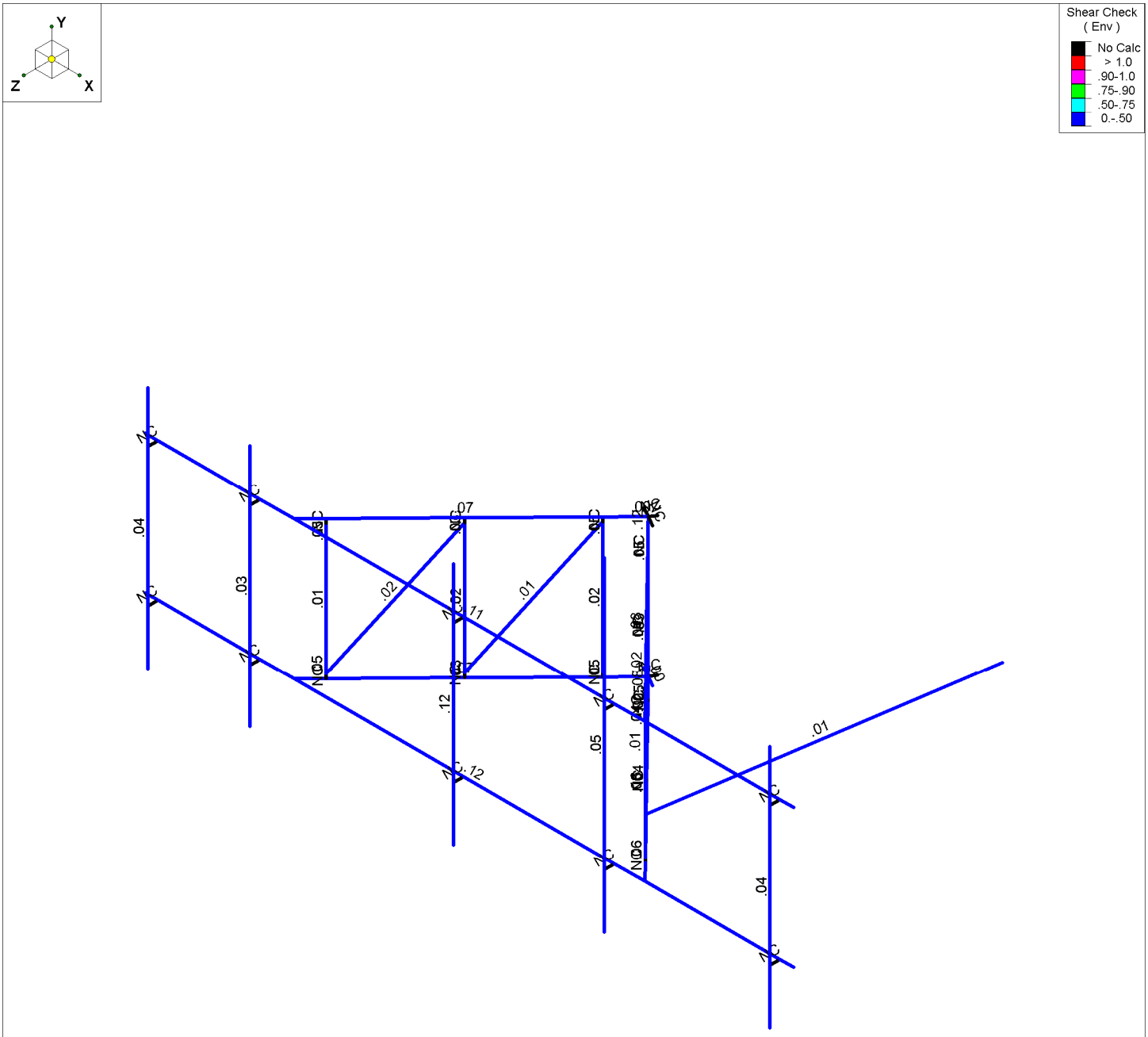

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					42			
2	Antenna Di	None					42			
3	Antenna Wo (0 Deg)	None					42			
4	Antenna Wo (30 Deg)	None					42			
5	Antenna Wo (60 Deg)	None					42			
6	Antenna Wo (90 Deg)	None					42			
7	Antenna Wo (120 Deg)	None					42			
8	Antenna Wo (150 Deg)	None					42			
9	Antenna Wo (180 Deg)	None					42			
10	Antenna Wo (210 Deg)	None					42			
11	Antenna Wo (240 Deg)	None					42			
12	Antenna Wo (270 Deg)	None					42			
13	Antenna Wo (300 Deg)	None					42			
14	Antenna Wo (330 Deg)	None					42			
15	Antenna Wi (0 Deg)	None					42			
16	Antenna Wi (30 Deg)	None					42			
17	Antenna Wi (60 Deg)	None					42			
18	Antenna Wi (90 Deg)	None					42			
19	Antenna Wi (120 Deg)	None					42			
20	Antenna Wi (150 Deg)	None					42			
21	Antenna Wi (180 Deg)	None					42			
22	Antenna Wi (210 Deg)	None					42			
23	Antenna Wi (240 Deg)	None					42			
24	Antenna Wi (270 Deg)	None					42			
25	Antenna Wi (300 Deg)	None					42			
26	Antenna Wi (330 Deg)	None					42			
27	Antenna Wm (0 Deg)	None					42			
28	Antenna Wm (30 Deg)	None					42			
29	Antenna Wm (60 Deg)	None					42			
30	Antenna Wm (90 Deg)	None					42			
31	Antenna Wm (120 Deg)	None					42			
32	Antenna Wm (150 Deg)	None					42			
33	Antenna Wm (180 Deg)	None					42			
34	Antenna Wm (210 Deg)	None					42			
35	Antenna Wm (240 Deg)	None					42			
36	Antenna Wm (270 Deg)	None					42			
37	Antenna Wm (300 Deg)	None					42			
38	Antenna Wm (330 Deg)	None					42			
39	Structure D	None		-1						
40	Structure Di	None						39		
41	Structure Wo (0 Deg)	None						78		
42	Structure Wo (30 Deg)	None						78		
43	Structure Wo (60 Deg)	None						78		
44	Structure Wo (90 Deg)	None						78		
45	Structure Wo (120 D...	None						78		
46	Structure Wo (150 D...	None						78		
47	Structure Wo (180 D...	None						78		
48	Structure Wo (210 D...	None						78		
49	Structure Wo (240 D...	None						78		
50	Structure Wo (270 D...	None						78		
51	Structure Wo (300 D...	None						78		
52	Structure Wo (330 D...	None						78		
53	Structure Wi (0 Deg)	None						78		

Basic Load Cases (Continued)

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

Load Combinations

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

Load Combinations (Continued)

	Description	So...	PDe...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
26	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1												
27	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1												
28	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1												
29	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1												
30	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1												
31	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1												
32	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1												
33	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1												
34	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1												
35	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1												
36	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1												
37	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1												
38	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1												
39	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1												
40	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1												
41	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1												
42	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1												
43	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1												
44	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1												
45	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1												
46	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1												
47	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1												
48	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1												
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5																
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5																
51	1.4D	Yes	Y		1	1.4	39	1.4																		

Joint Coordinates and Temperatures

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
1	N1	-2.	0	2.	0	
2	N2	-4.922836	0	0.3125	0	
3	N3	0.922836	0	3.6875	0	
4	N4	-1.	0	0.267949	0	
5	N5	-2.	-41.	2.	0	
6	N6	-4.922836	-41.	0.3125	0	
7	N7	0.922836	-41.	3.6875	0	
8	N10	-54	0	55.	0	
9	N11	50.	0	55.	0	
10	N11A	-98.	0	55.	0	
11	N12	94.	0	55.	0	
12	N14	-54	-41.	55.	0	
13	N15	50.	-41.	55.	0	
14	N16	-98.	-41.	55.	0	
15	N17	94.	-41.	55.	0	
16	N17A	-4.101022	0	4.141426	0	
17	N18	0.101022	0	4.141426	0	
18	N19	-4.101022	-41.	4.141426	0	
19	N20	0.101022	-41.	4.141426	0	
20	N21	4.653236	-1.25	8.781183	0	
21	N22	4.653236	-39.75	8.781183	0	
22	N23	24.963116	-1.25	29.481637	0	
23	N24	24.963116	-39.75	29.481637	0	
24	N25	45.272995	-1.25	50.182091	0	
25	N26	45.272995	-39.75	50.182091	0	
26	N27	4.653236	-38.25	8.781183	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
27	N28	24.963116	-38.25	29.481637	0	
28	N29	4.653236	-2.75	8.781183	0	
29	N30	24.963116	-2.75	29.481637	0	
30	N31	45.272995	-35.75	50.182091	0	
31	N32	45.272995	-5.25	50.182091	0	
32	N33	-8.653236	-1.25	8.781183	0	
33	N34	-8.653236	-39.75	8.781183	0	
34	N35	-28.963116	-1.25	29.481637	0	
35	N36	-28.963116	-39.75	29.481637	0	
36	N37	-49.272995	-1.25	50.182091	0	
37	N38	-49.272995	-39.75	50.182091	0	
38	N39	-8.653236	-38.25	8.781183	0	
39	N40	-28.963116	-38.25	29.481637	0	
40	N41	-8.653236	-2.75	8.781183	0	
41	N42	-28.963116	-2.75	29.481637	0	
42	N43	-49.272995	-35.75	50.182091	0	
43	N44	-49.272995	-5.25	50.182091	0	
44	N65	-1.	-41.	0.267949	0	
45	N46	-94.25	0	55.	0	
46	N47	-94.25	-41.	55.	0	
47	N48	-94.25	0	58.	0	
48	N49	-94.25	-41.	58.	0	
49	N50	-64.	0	55.	0	
50	N51	-64.	-41.	55.	0	
51	N52	-64.	0	58.	0	
52	N53	-64.	-41.	58.	0	
53	N54	-3.75	0	55.	0	
54	N55	-3.75	-41.	55.	0	
55	N56	-3.75	0	58.	0	
56	N57	-3.75	-41.	58.	0	
57	N62	90	0	55.	0	
58	N63	90	-41.	55.	0	
59	N64	90	0	58.	0	
60	N65A	90	-41.	58.	0	
61	N66	-94.25	15	58.	0	
62	N67	-3.75	15	58.	0	
63	N68	90	15	58.	0	
64	N69	-94.25	-57	58.	0	
65	N70	-3.75	-57	58.	0	
66	N71	90	-57	58.	0	
67	N79	45.272995	-28.5	50.182091	0	
68	N80A	59.338394	-28.5	-41.575044	0	
69	N72	-64.	15.25	58.	0	
70	N73	-64.	-56.75	58.	0	
71	N71A	41.	0	55.	0	
72	N72A	41.	-41.	55.	0	
73	N73A	41.	0	58.	0	
74	N74	41.	-41.	58.	0	
75	N75	41.	39	58.	0	
76	N76	41.	-57	58.	0	
77	N77	4.653236	0	8.781183	0	
78	N78	24.963116	0	29.481637	0	
79	N79A	45.272995	0	50.182091	0	
80	N80	-8.653236	0	8.781183	0	
81	N81	-28.963116	0	29.481637	0	
82	N82	-49.272995	0	50.182091	0	
83	N83	4.653236	-41.	8.781183	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [in]	Y [in]	Z [in]	Temp [F]	Detach From Diap...
84	N84	24.963116	-41.	29.481637	0	
85	N85	45.272995	-41.	50.182091	0	
86	N86	-8.653236	-41.	8.781183	0	
87	N87	-28.963116	-41.	29.481637	0	
88	N88	-49.272995	-41.	50.182091	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Horizontal	PIPE_2.0	Beam	Pipe	A500 Gr. ...	Typical	1.02	.627	.627	1.25
3	Standoff Vertical	PIPE_2.0	Beam	Pipe	A500 Gr. ...	Typical	1.02	.627	.627	1.25
4	TES Standoff Dia...	HSS1.500x.06	Beam	Pipe	A500 Gr. ...	Typical	.282	.073	.073	.146
5	Face Horizontal	PIPE_2.0	Beam	Pipe	A500 Gr. ...	Typical	1.02	.627	.627	1.25
6	Tie Back	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Standoff Bar	PL3/8X3	Beam	RECT	A36 Gr.36	Typical	1.125	.013	.844	.049
8	Mount Angle	L4X3X6	Beam	Single An...	A572 Gr. ...	Typical	2.49	1.89	3.94	.123
9	Kickers	L2.5x2.5x3	Beam	Single An...	A36 Gr.36	Typical	.901	.535	.535	.011
10	True Standoff Dia...	HSS1.500x.06	Beam	Single An...	A500 Gr. ...	Typical	.282	.073	.073	.146
11	Antenna Pepe 2.5...	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr. 50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	A500 Gr. C 50	29000	11154	.3	.65	.49	50	1.5	62	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N3		90	RIGID	None	None	RIGID	Typical
2	M2	N1	N4			RIGID	None	None	RIGID	Typical
3	M3	N6	N7		90	Mount Angle	Beam	Single Angle	A572 Gr. 50	Typical
4	M5	N1	N17A		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
5	M6	N1	N18		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
6	M7	N11A	N12			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
7	M8	N5	N19		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
8	M9	N5	N20		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
9	M10	N16	N17			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
10	M11	N17A	N10			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
11	M12	N18	N11			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
12	M13	N19	N14			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
13	M14	N20	N15			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
14	M15	N21	N29	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
15	M17	N23	N30	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
16	M19	N26	N31	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
17	M20	N27	N22	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
18	M21	N28	N24	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
19	M22	N29	N27	N1		TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
20	M23	N30	N28	N1		TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
21	M24	N31	N32	N1		Standoff Vertical	Beam	Pipe	A500 Gr. ...	Typical
22	M25	N32	N25	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
23	M26	N33	N41	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
24	M27	N33	N36		90	TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
25	M28	N35	N42	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
26	M29	N35	N38		90	TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
27	M30	N38	N43	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
28	M31	N39	N34	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
29	M32	N40	N36	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
30	M33	N41	N39	N1		TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
31	M34	N42	N40	N1		TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
32	M35	N43	N44	N1		Standoff Vertical	Beam	Pipe	A500 Gr. ...	Typical
33	M36	N44	N37	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
34	M46A	N5	N65			RIGID	None	None	RIGID	Typical
35	M37	N46	N48			RIGID	None	None	RIGID	Typical
36	M38	N47	N49			RIGID	None	None	RIGID	Typical
37	M39	N50	N52			RIGID	None	None	RIGID	Typical
38	M40	N51	N53			RIGID	None	None	RIGID	Typical
39	M41	N54	N56			RIGID	None	None	RIGID	Typical
40	M42	N55	N57			RIGID	None	None	RIGID	Typical
41	M45	N62	N64			RIGID	None	None	RIGID	Typical
42	M46	N63	N65A			RIGID	None	None	RIGID	Typical
43	MP5A	N66	N69			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
44	MP3A	N67	N70			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
45	MP1A	N68	N71			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M52	N79	N80A			Tie Back	Beam	Pipe	A53 Gr. B	Typical
47	M53	N21	N24		90	TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
48	M54	N23	N26		90	TES Standoff ...	Beam	Pipe	A500 Gr. ...	Typical
49	MP4A	N72	N73			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
50	M50	N71A	N73A			RIGID	None	None	RIGID	Typical
51	M51	N72A	N74			RIGID	None	None	RIGID	Typical
52	MP2A	N75	N76			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
53	M53A	N82	N37			RIGID	None	None	RIGID	Typical
54	M54A	N81	N35			RIGID	None	None	RIGID	Typical
55	M55	N80	N33			RIGID	None	None	RIGID	Typical
56	M56	N77	N21			RIGID	None	None	RIGID	Typical
57	M57	N78	N23			RIGID	None	None	RIGID	Typical
58	M58	N79A	N25			RIGID	None	None	RIGID	Typical
59	M59	N38	N88			RIGID	None	None	RIGID	Typical
60	M60	N36	N87			RIGID	None	None	RIGID	Typical
61	M61	N34	N86			RIGID	None	None	RIGID	Typical
62	M62	N22	N83			RIGID	None	None	RIGID	Typical
63	M63	N24	N84			RIGID	None	None	RIGID	Typical
64	M64	N26	N85			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes				None
4	M5						Yes	Default			None
5	M6						Yes	Default			None
6	M7						Yes				None
7	M8						Yes	Default			None
8	M9						Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
9	M10						Yes				None
10	M11						Yes				None
11	M12						Yes				None
12	M13						Yes				None
13	M14						Yes				None
14	M15	OOOOOX					Yes				None
15	M17	OOOOOX					Yes				None
16	M19	OOOOOX					Yes				None
17	M20		OOOOOO				Yes				None
18	M21		OOOOOO				Yes				None
19	M22						Yes				None
20	M23						Yes				None
21	M24						Yes				None
22	M25		OOOOOO				Yes	Default			None
23	M26	OOOOOX					Yes				None
24	M27	BenPIN	BenPIN				Yes				None
25	M28	OOOOOX					Yes				None
26	M29	BenPIN	BenPIN				Yes	Default			None
27	M30	OOOOOX					Yes				None
28	M31		OOOOOO				Yes				None
29	M32		OOOOOO				Yes				None
30	M33						Yes				None
31	M34						Yes				None
32	M35						Yes				None
33	M36		OOOOOO				Yes				None
34	M46A						Yes	** NA **			None
35	M37						Yes	** NA **			None
36	M38						Yes	** NA **			None
37	M39						Yes	** NA **			None
38	M40						Yes	** NA **			None
39	M41						Yes	** NA **			None
40	M42						Yes	** NA **			None
41	M45						Yes	** NA **			None
42	M46						Yes	** NA **			None
43	MP5A						Yes	** NA **			None
44	MP3A						Yes	** NA **			None
45	MP1A						Yes	** NA **			None
46	M52	OOOOXO					Yes	Default			None
47	M53	BenPIN	BenPIN				Yes	Default			None
48	M54	BenPIN	BenPIN				Yes	Default			None
49	MP4A						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	MP2A						Yes	** NA **			None
53	M53A						Yes	** NA **			None
54	M54A						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Y	-43.55	18
2	MP2A	My	-.022	18
3	MP2A	Mz	0	18
4	MP2A	Y	-43.55	42
5	MP2A	My	-.022	42
6	MP2A	Mz	0	42
7	MP3A	Y	-31.65	3
8	MP3A	My	-.016	3
9	MP3A	Mz	.02	3
10	MP3A	Y	-31.65	45
11	MP3A	My	-.016	45
12	MP3A	Mz	.02	45
13	MP3A	Y	-31.65	3
14	MP3A	My	-.016	3
15	MP3A	Mz	-.02	3
16	MP3A	Y	-31.65	45
17	MP3A	My	-.016	45
18	MP3A	Mz	-.02	45
19	MP1A	Y	-6	6
20	MP1A	My	-.003	6
21	MP1A	Mz	0	6
22	MP1A	Y	-6	42
23	MP1A	My	-.003	42
24	MP1A	Mz	0	42
25	MP5A	Y	-6	6
26	MP5A	My	-.003	6
27	MP5A	Mz	0	6
28	MP5A	Y	-6	42
29	MP5A	My	-.003	42
30	MP5A	Mz	0	42
31	MP2A	Y	-4.4	84
32	MP2A	My	-.002	84
33	MP2A	Mz	0	84
34	M10	Y	-10.4	72
35	M10	My	-.005	72
36	M10	Mz	0	72
37	MP3A	Y	-84.4	36
38	MP3A	My	.042	36
39	MP3A	Mz	0	36
40	MP4A	Y	-70.3	36
41	MP4A	My	.035	36
42	MP4A	Mz	0	36

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	Y	-58.268	18
2	MP2A	My	-.029	18
3	MP2A	Mz	0	18
4	MP2A	Y	-58.268	42
5	MP2A	My	-.029	42
6	MP2A	Mz	0	42
7	MP3A	Y	-113.251	3
8	MP3A	My	-.057	3
9	MP3A	Mz	.071	3
10	MP3A	Y	-113.251	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
11	MP3A	My	-.057	45
12	MP3A	Mz	.071	45
13	MP3A	Y	-113.251	3
14	MP3A	My	-.057	3
15	MP3A	Mz	-.071	3
16	MP3A	Y	-113.251	45
17	MP3A	My	-.057	45
18	MP3A	Mz	-.071	45
19	MP1A	Y	-65.999	6
20	MP1A	My	-.033	6
21	MP1A	Mz	0	6
22	MP1A	Y	-65.999	42
23	MP1A	My	-.033	42
24	MP1A	Mz	0	42
25	MP5A	Y	-65.999	6
26	MP5A	My	-.033	6
27	MP5A	Mz	0	6
28	MP5A	Y	-65.999	42
29	MP5A	My	-.033	42
30	MP5A	Mz	0	42
31	MP2A	Y	-23.68	84
32	MP2A	My	-.012	84
33	MP2A	Mz	0	84
34	M10	Y	-19.025	72
35	M10	My	-.01	72
36	M10	Mz	0	72
37	MP3A	Y	-74.105	36
38	MP3A	My	.037	36
39	MP3A	Mz	0	36
40	MP4A	Y	-66.928	36
41	MP4A	My	.033	36
42	MP4A	Mz	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	18
2	MP2A	Z	-80.545	18
3	MP2A	Mx	0	18
4	MP2A	X	0	42
5	MP2A	Z	-80.545	42
6	MP2A	Mx	0	42
7	MP3A	X	0	3
8	MP3A	Z	-156.121	3
9	MP3A	Mx	-.098	3
10	MP3A	X	0	45
11	MP3A	Z	-156.121	45
12	MP3A	Mx	-.098	45
13	MP3A	X	0	3
14	MP3A	Z	-156.121	3
15	MP3A	Mx	.098	3
16	MP3A	X	0	45
17	MP3A	Z	-156.121	45
18	MP3A	Mx	.098	45
19	MP1A	X	0	6
20	MP1A	Z	-44.728	6
21	MP1A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
22	MP1A	X	0	42
23	MP1A	Z	-44.728	42
24	MP1A	Mx	0	42
25	MP5A	X	0	6
26	MP5A	Z	-44.728	6
27	MP5A	Mx	0	6
28	MP5A	X	0	42
29	MP5A	Z	-44.728	42
30	MP5A	Mx	0	42
31	MP2A	X	0	84
32	MP2A	Z	-30.504	84
33	MP2A	Mx	0	84
34	M10	X	0	72
35	M10	Z	-12.682	72
36	M10	Mx	0	72
37	MP3A	X	0	36
38	MP3A	Z	-64.094	36
39	MP3A	Mx	0	36
40	MP4A	X	0	36
41	MP4A	Z	-64.094	36
42	MP4A	Mx	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	34.146	18
2	MP2A	Z	-59.143	18
3	MP2A	Mx	-.017	18
4	MP2A	X	34.146	42
5	MP2A	Z	-59.143	42
6	MP2A	Mx	-.017	42
7	MP3A	X	71.363	3
8	MP3A	Z	-123.604	3
9	MP3A	Mx	-.113	3
10	MP3A	X	71.363	45
11	MP3A	Z	-123.604	45
12	MP3A	Mx	-.113	45
13	MP3A	X	71.363	3
14	MP3A	Z	-123.604	3
15	MP3A	Mx	.042	3
16	MP3A	X	71.363	45
17	MP3A	Z	-123.604	45
18	MP3A	Mx	.042	45
19	MP1A	X	28.338	6
20	MP1A	Z	-49.084	6
21	MP1A	Mx	-.014	6
22	MP1A	X	28.338	42
23	MP1A	Z	-49.084	42
24	MP1A	Mx	-.014	42
25	MP5A	X	28.338	6
26	MP5A	Z	-49.084	6
27	MP5A	Mx	-.014	6
28	MP5A	X	28.338	42
29	MP5A	Z	-49.084	42
30	MP5A	Mx	-.014	42
31	MP2A	X	12.187	84
32	MP2A	Z	-21.108	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
33	MP2A	Mx	-.006	84
34	M10	X	5.852	72
35	M10	Z	-10.137	72
36	M10	Mx	-.003	72
37	MP3A	X	29.39	36
38	MP3A	Z	-50.906	36
39	MP3A	Mx	.015	36
40	MP4A	X	28.373	36
41	MP4A	Z	-49.143	36
42	MP4A	Mx	.014	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	37.92	18
2	MP2A	Z	-21.893	18
3	MP2A	Mx	-.019	18
4	MP2A	X	37.92	42
5	MP2A	Z	-21.893	42
6	MP2A	Mx	-.019	42
7	MP3A	X	100.402	3
8	MP3A	Z	-57.967	3
9	MP3A	Mx	-.086	3
10	MP3A	X	100.402	45
11	MP3A	Z	-57.967	45
12	MP3A	Mx	-.086	45
13	MP3A	X	100.402	3
14	MP3A	Z	-57.967	3
15	MP3A	Mx	-.014	3
16	MP3A	X	100.402	45
17	MP3A	Z	-57.967	45
18	MP3A	Mx	-.014	45
19	MP1A	X	69.779	6
20	MP1A	Z	-40.287	6
21	MP1A	Mx	-.035	6
22	MP1A	X	69.779	42
23	MP1A	Z	-40.287	42
24	MP1A	Mx	-.035	42
25	MP5A	X	69.779	6
26	MP5A	Z	-40.287	6
27	MP5A	Mx	-.035	6
28	MP5A	X	69.779	42
29	MP5A	Z	-40.287	42
30	MP5A	Mx	-.035	42
31	MP2A	X	10.49	84
32	MP2A	Z	-6.056	84
33	MP2A	Mx	-.005	84
34	M10	X	8.445	72
35	M10	Z	-4.876	72
36	M10	Mx	-.004	72
37	MP3A	X	41.704	36
38	MP3A	Z	-24.078	36
39	MP3A	Mx	.021	36
40	MP4A	X	36.417	36
41	MP4A	Z	-21.025	36
42	MP4A	Mx	.018	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	31.533	18
2	MP2A	Z	0	18
3	MP2A	Mx	-.016	18
4	MP2A	X	31.533	42
5	MP2A	Z	0	42
6	MP2A	Mx	-.016	42
7	MP3A	X	102.538	3
8	MP3A	Z	0	3
9	MP3A	Mx	-.051	3
10	MP3A	X	102.538	45
11	MP3A	Z	0	45
12	MP3A	Mx	-.051	45
13	MP3A	X	102.538	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.051	3
16	MP3A	X	102.538	45
17	MP3A	Z	0	45
18	MP3A	Mx	-.051	45
19	MP1A	X	92.522	6
20	MP1A	Z	0	6
21	MP1A	Mx	-.046	6
22	MP1A	X	92.522	42
23	MP1A	Z	0	42
24	MP1A	Mx	-.046	42
25	MP5A	X	92.522	6
26	MP5A	Z	0	6
27	MP5A	Mx	-.046	6
28	MP5A	X	92.522	42
29	MP5A	Z	0	42
30	MP5A	Mx	-.046	42
31	MP2A	X	5.982	84
32	MP2A	Z	0	84
33	MP2A	Mx	-.003	84
34	M10	X	8.774	72
35	M10	Z	0	72
36	M10	Mx	-.004	72
37	MP3A	X	42.843	36
38	MP3A	Z	0	36
39	MP3A	Mx	.021	36
40	MP4A	X	34.703	36
41	MP4A	Z	0	36
42	MP4A	Mx	.017	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	37.92	18
2	MP2A	Z	21.893	18
3	MP2A	Mx	-.019	18
4	MP2A	X	37.92	42
5	MP2A	Z	21.893	42
6	MP2A	Mx	-.019	42
7	MP3A	X	100.402	3
8	MP3A	Z	57.967	3
9	MP3A	Mx	-.014	3
10	MP3A	X	100.402	45
11	MP3A	Z	57.967	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	-.014	45
13	MP3A	X	100.402	3
14	MP3A	Z	57.967	3
15	MP3A	Mx	-.086	3
16	MP3A	X	100.402	45
17	MP3A	Z	57.967	45
18	MP3A	Mx	-.086	45
19	MP1A	X	69.779	6
20	MP1A	Z	40.287	6
21	MP1A	Mx	-.035	6
22	MP1A	X	69.779	42
23	MP1A	Z	40.287	42
24	MP1A	Mx	-.035	42
25	MP5A	X	69.779	6
26	MP5A	Z	40.287	6
27	MP5A	Mx	-.035	6
28	MP5A	X	69.779	42
29	MP5A	Z	40.287	42
30	MP5A	Mx	-.035	42
31	MP2A	X	10.49	84
32	MP2A	Z	6.056	84
33	MP2A	Mx	-.005	84
34	M10	X	8.445	72
35	M10	Z	4.876	72
36	M10	Mx	-.004	72
37	MP3A	X	41.704	36
38	MP3A	Z	24.078	36
39	MP3A	Mx	.021	36
40	MP4A	X	36.417	36
41	MP4A	Z	21.025	36
42	MP4A	Mx	.018	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	34.146	18
2	MP2A	Z	59.143	18
3	MP2A	Mx	-.017	18
4	MP2A	X	34.146	42
5	MP2A	Z	59.143	42
6	MP2A	Mx	-.017	42
7	MP3A	X	71.363	3
8	MP3A	Z	123.604	3
9	MP3A	Mx	.042	3
10	MP3A	X	71.363	45
11	MP3A	Z	123.604	45
12	MP3A	Mx	.042	45
13	MP3A	X	71.363	3
14	MP3A	Z	123.604	3
15	MP3A	Mx	-.113	3
16	MP3A	X	71.363	45
17	MP3A	Z	123.604	45
18	MP3A	Mx	-.113	45
19	MP1A	X	28.338	6
20	MP1A	Z	49.084	6
21	MP1A	Mx	-.014	6
22	MP1A	X	28.338	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	49.084	42
24	MP1A	Mx	-.014	42
25	MP5A	X	28.338	6
26	MP5A	Z	49.084	6
27	MP5A	Mx	-.014	6
28	MP5A	X	28.338	42
29	MP5A	Z	49.084	42
30	MP5A	Mx	-.014	42
31	MP2A	X	12.187	84
32	MP2A	Z	21.108	84
33	MP2A	Mx	-.006	84
34	M10	X	5.852	72
35	M10	Z	10.137	72
36	M10	Mx	-.003	72
37	MP3A	X	29.39	36
38	MP3A	Z	50.906	36
39	MP3A	Mx	.015	36
40	MP4A	X	28.373	36
41	MP4A	Z	49.143	36
42	MP4A	Mx	.014	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	18
2	MP2A	Z	80.545	18
3	MP2A	Mx	0	18
4	MP2A	X	0	42
5	MP2A	Z	80.545	42
6	MP2A	Mx	0	42
7	MP3A	X	0	3
8	MP3A	Z	156.121	3
9	MP3A	Mx	.098	3
10	MP3A	X	0	45
11	MP3A	Z	156.121	45
12	MP3A	Mx	.098	45
13	MP3A	X	0	3
14	MP3A	Z	156.121	3
15	MP3A	Mx	-.098	3
16	MP3A	X	0	45
17	MP3A	Z	156.121	45
18	MP3A	Mx	-.098	45
19	MP1A	X	0	6
20	MP1A	Z	44.728	6
21	MP1A	Mx	0	6
22	MP1A	X	0	42
23	MP1A	Z	44.728	42
24	MP1A	Mx	0	42
25	MP5A	X	0	6
26	MP5A	Z	44.728	6
27	MP5A	Mx	0	6
28	MP5A	X	0	42
29	MP5A	Z	44.728	42
30	MP5A	Mx	0	42
31	MP2A	X	0	84
32	MP2A	Z	30.504	84
33	MP2A	Mx	0	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
34	M10	X	0	72
35	M10	Z	12.682	72
36	M10	Mx	0	72
37	MP3A	X	0	36
38	MP3A	Z	64.094	36
39	MP3A	Mx	0	36
40	MP4A	X	0	36
41	MP4A	Z	64.094	36
42	MP4A	Mx	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-34.146	18
2	MP2A	Z	59.143	18
3	MP2A	Mx	.017	18
4	MP2A	X	-34.146	42
5	MP2A	Z	59.143	42
6	MP2A	Mx	.017	42
7	MP3A	X	-71.363	3
8	MP3A	Z	123.604	3
9	MP3A	Mx	.113	3
10	MP3A	X	-71.363	45
11	MP3A	Z	123.604	45
12	MP3A	Mx	.113	45
13	MP3A	X	-71.363	3
14	MP3A	Z	123.604	3
15	MP3A	Mx	-.042	3
16	MP3A	X	-71.363	45
17	MP3A	Z	123.604	45
18	MP3A	Mx	-.042	45
19	MP1A	X	-28.338	6
20	MP1A	Z	49.084	6
21	MP1A	Mx	.014	6
22	MP1A	X	-28.338	42
23	MP1A	Z	49.084	42
24	MP1A	Mx	.014	42
25	MP5A	X	-28.338	6
26	MP5A	Z	49.084	6
27	MP5A	Mx	.014	6
28	MP5A	X	-28.338	42
29	MP5A	Z	49.084	42
30	MP5A	Mx	.014	42
31	MP2A	X	-12.187	84
32	MP2A	Z	21.108	84
33	MP2A	Mx	.006	84
34	M10	X	-5.852	72
35	M10	Z	10.137	72
36	M10	Mx	.003	72
37	MP3A	X	-29.39	36
38	MP3A	Z	50.906	36
39	MP3A	Mx	-.015	36
40	MP4A	X	-28.373	36
41	MP4A	Z	49.143	36
42	MP4A	Mx	-.014	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-37.92	18
2	MP2A	Z	21.893	18
3	MP2A	Mx	.019	18
4	MP2A	X	-37.92	42
5	MP2A	Z	21.893	42
6	MP2A	Mx	.019	42
7	MP3A	X	-100.402	3
8	MP3A	Z	57.967	3
9	MP3A	Mx	.086	3
10	MP3A	X	-100.402	45
11	MP3A	Z	57.967	45
12	MP3A	Mx	.086	45
13	MP3A	X	-100.402	3
14	MP3A	Z	57.967	3
15	MP3A	Mx	.014	3
16	MP3A	X	-100.402	45
17	MP3A	Z	57.967	45
18	MP3A	Mx	.014	45
19	MP1A	X	-69.779	6
20	MP1A	Z	40.287	6
21	MP1A	Mx	.035	6
22	MP1A	X	-69.779	42
23	MP1A	Z	40.287	42
24	MP1A	Mx	.035	42
25	MP5A	X	-69.779	6
26	MP5A	Z	40.287	6
27	MP5A	Mx	.035	6
28	MP5A	X	-69.779	42
29	MP5A	Z	40.287	42
30	MP5A	Mx	.035	42
31	MP2A	X	-10.49	84
32	MP2A	Z	6.056	84
33	MP2A	Mx	.005	84
34	M10	X	-8.445	72
35	M10	Z	4.876	72
36	M10	Mx	.004	72
37	MP3A	X	-41.704	36
38	MP3A	Z	24.078	36
39	MP3A	Mx	-.021	36
40	MP4A	X	-36.417	36
41	MP4A	Z	21.025	36
42	MP4A	Mx	-.018	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-31.533	18
2	MP2A	Z	0	18
3	MP2A	Mx	.016	18
4	MP2A	X	-31.533	42
5	MP2A	Z	0	42
6	MP2A	Mx	.016	42
7	MP3A	X	-102.538	3
8	MP3A	Z	0	3
9	MP3A	Mx	.051	3
10	MP3A	X	-102.538	45
11	MP3A	Z	0	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	.051	45
13	MP3A	X	-102.538	3
14	MP3A	Z	0	3
15	MP3A	Mx	.051	3
16	MP3A	X	-102.538	45
17	MP3A	Z	0	45
18	MP3A	Mx	.051	45
19	MP1A	X	-92.522	6
20	MP1A	Z	0	6
21	MP1A	Mx	.046	6
22	MP1A	X	-92.522	42
23	MP1A	Z	0	42
24	MP1A	Mx	.046	42
25	MP5A	X	-92.522	6
26	MP5A	Z	0	6
27	MP5A	Mx	.046	6
28	MP5A	X	-92.522	42
29	MP5A	Z	0	42
30	MP5A	Mx	.046	42
31	MP2A	X	-5.982	84
32	MP2A	Z	0	84
33	MP2A	Mx	.003	84
34	M10	X	-8.774	72
35	M10	Z	0	72
36	M10	Mx	.004	72
37	MP3A	X	-42.843	36
38	MP3A	Z	0	36
39	MP3A	Mx	-.021	36
40	MP4A	X	-34.703	36
41	MP4A	Z	0	36
42	MP4A	Mx	-.017	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-37.92	18
2	MP2A	Z	-21.893	18
3	MP2A	Mx	.019	18
4	MP2A	X	-37.92	42
5	MP2A	Z	-21.893	42
6	MP2A	Mx	.019	42
7	MP3A	X	-100.402	3
8	MP3A	Z	-57.967	3
9	MP3A	Mx	.014	3
10	MP3A	X	-100.402	45
11	MP3A	Z	-57.967	45
12	MP3A	Mx	.014	45
13	MP3A	X	-100.402	3
14	MP3A	Z	-57.967	3
15	MP3A	Mx	.086	3
16	MP3A	X	-100.402	45
17	MP3A	Z	-57.967	45
18	MP3A	Mx	.086	45
19	MP1A	X	-69.779	6
20	MP1A	Z	-40.287	6
21	MP1A	Mx	.035	6
22	MP1A	X	-69.779	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	-40.287	42
24	MP1A	Mx	.035	42
25	MP5A	X	-69.779	6
26	MP5A	Z	-40.287	6
27	MP5A	Mx	.035	6
28	MP5A	X	-69.779	42
29	MP5A	Z	-40.287	42
30	MP5A	Mx	.035	42
31	MP2A	X	-10.49	84
32	MP2A	Z	-6.056	84
33	MP2A	Mx	.005	84
34	M10	X	-8.445	72
35	M10	Z	-4.876	72
36	M10	Mx	.004	72
37	MP3A	X	-41.704	36
38	MP3A	Z	-24.078	36
39	MP3A	Mx	-.021	36
40	MP4A	X	-36.417	36
41	MP4A	Z	-21.025	36
42	MP4A	Mx	-.018	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-34.146	18
2	MP2A	Z	-59.143	18
3	MP2A	Mx	.017	18
4	MP2A	X	-34.146	42
5	MP2A	Z	-59.143	42
6	MP2A	Mx	.017	42
7	MP3A	X	-71.363	3
8	MP3A	Z	-123.604	3
9	MP3A	Mx	-.042	3
10	MP3A	X	-71.363	45
11	MP3A	Z	-123.604	45
12	MP3A	Mx	-.042	45
13	MP3A	X	-71.363	3
14	MP3A	Z	-123.604	3
15	MP3A	Mx	.113	3
16	MP3A	X	-71.363	45
17	MP3A	Z	-123.604	45
18	MP3A	Mx	.113	45
19	MP1A	X	-28.338	6
20	MP1A	Z	-49.084	6
21	MP1A	Mx	.014	6
22	MP1A	X	-28.338	42
23	MP1A	Z	-49.084	42
24	MP1A	Mx	.014	42
25	MP5A	X	-28.338	6
26	MP5A	Z	-49.084	6
27	MP5A	Mx	.014	6
28	MP5A	X	-28.338	42
29	MP5A	Z	-49.084	42
30	MP5A	Mx	.014	42
31	MP2A	X	-12.187	84
32	MP2A	Z	-21.108	84
33	MP2A	Mx	.006	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
34	M10	X	-5.852	72
35	M10	Z	-10.137	72
36	M10	Mx	.003	72
37	MP3A	X	-29.39	36
38	MP3A	Z	-50.906	36
39	MP3A	Mx	-.015	36
40	MP4A	X	-28.373	36
41	MP4A	Z	-49.143	36
42	MP4A	Mx	-.014	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	18
2	MP2A	Z	-17.401	18
3	MP2A	Mx	0	18
4	MP2A	X	0	42
5	MP2A	Z	-17.401	42
6	MP2A	Mx	0	42
7	MP3A	X	0	3
8	MP3A	Z	-32.256	3
9	MP3A	Mx	-.02	3
10	MP3A	X	0	45
11	MP3A	Z	-32.256	45
12	MP3A	Mx	-.02	45
13	MP3A	X	0	3
14	MP3A	Z	-32.256	3
15	MP3A	Mx	.02	3
16	MP3A	X	0	45
17	MP3A	Z	-32.256	45
18	MP3A	Mx	.02	45
19	MP1A	X	0	6
20	MP1A	Z	-10.708	6
21	MP1A	Mx	0	6
22	MP1A	X	0	42
23	MP1A	Z	-10.708	42
24	MP1A	Mx	0	42
25	MP5A	X	0	6
26	MP5A	Z	-10.708	6
27	MP5A	Mx	0	6
28	MP5A	X	0	42
29	MP5A	Z	-10.708	42
30	MP5A	Mx	0	42
31	MP2A	X	0	84
32	MP2A	Z	-8.099	84
33	MP2A	Mx	0	84
34	M10	X	0	72
35	M10	Z	-4.057	72
36	M10	Mx	0	72
37	MP3A	X	0	36
38	MP3A	Z	-15.107	36
39	MP3A	Mx	0	36
40	MP4A	X	0	36
41	MP4A	Z	-15.107	36
42	MP4A	Mx	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	7.495	18
2	MP2A	Z	-12.981	18
3	MP2A	Mx	-.004	18
4	MP2A	X	7.495	42
5	MP2A	Z	-12.981	42
6	MP2A	Mx	-.004	42
7	MP3A	X	14.89	3
8	MP3A	Z	-25.79	3
9	MP3A	Mx	-.024	3
10	MP3A	X	14.89	45
11	MP3A	Z	-25.79	45
12	MP3A	Mx	-.024	45
13	MP3A	X	14.89	3
14	MP3A	Z	-25.79	3
15	MP3A	Mx	.009	3
16	MP3A	X	14.89	45
17	MP3A	Z	-25.79	45
18	MP3A	Mx	.009	45
19	MP1A	X	6.484	6
20	MP1A	Z	-11.23	6
21	MP1A	Mx	-.003	6
22	MP1A	X	6.484	42
23	MP1A	Z	-11.23	42
24	MP1A	Mx	-.003	42
25	MP5A	X	6.484	6
26	MP5A	Z	-11.23	6
27	MP5A	Mx	-.003	6
28	MP5A	X	6.484	42
29	MP5A	Z	-11.23	42
30	MP5A	Mx	-.003	42
31	MP2A	X	3.385	84
32	MP2A	Z	-5.863	84
33	MP2A	Mx	-.002	84
34	M10	X	1.914	72
35	M10	Z	-3.316	72
36	M10	Mx	-.000957	72
37	MP3A	X	7.006	36
38	MP3A	Z	-12.135	36
39	MP3A	Mx	.004	36
40	MP4A	X	6.798	36
41	MP4A	Z	-11.775	36
42	MP4A	Mx	.003	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	8.804	18
2	MP2A	Z	-5.083	18
3	MP2A	Mx	-.004	18
4	MP2A	X	8.804	42
5	MP2A	Z	-5.083	42
6	MP2A	Mx	-.004	42
7	MP3A	X	21.5	3
8	MP3A	Z	-12.413	3
9	MP3A	Mx	-.019	3
10	MP3A	X	21.5	45
11	MP3A	Z	-12.413	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	-.019	45
13	MP3A	X	21.5	3
14	MP3A	Z	-12.413	3
15	MP3A	Mx	-.003	3
16	MP3A	X	21.5	45
17	MP3A	Z	-12.413	45
18	MP3A	Mx	-.003	45
19	MP1A	X	15.144	6
20	MP1A	Z	-8.743	6
21	MP1A	Mx	-.008	6
22	MP1A	X	15.144	42
23	MP1A	Z	-8.743	42
24	MP1A	Mx	-.008	42
25	MP5A	X	15.144	6
26	MP5A	Z	-8.743	6
27	MP5A	Mx	-.008	6
28	MP5A	X	15.144	42
29	MP5A	Z	-8.743	42
30	MP5A	Mx	-.008	42
31	MP2A	X	3.56	84
32	MP2A	Z	-2.055	84
33	MP2A	Mx	-.002	84
34	M10	X	2.921	72
35	M10	Z	-1.686	72
36	M10	Mx	-.001	72
37	MP3A	X	10.239	36
38	MP3A	Z	-5.912	36
39	MP3A	Mx	.005	36
40	MP4A	X	9.159	36
41	MP4A	Z	-5.288	36
42	MP4A	Mx	.005	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	7.754	18
2	MP2A	Z	0	18
3	MP2A	Mx	-.004	18
4	MP2A	X	7.754	42
5	MP2A	Z	0	42
6	MP2A	Mx	-.004	42
7	MP3A	X	22.349	3
8	MP3A	Z	0	3
9	MP3A	Mx	-.011	3
10	MP3A	X	22.349	45
11	MP3A	Z	0	45
12	MP3A	Mx	-.011	45
13	MP3A	X	22.349	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.011	3
16	MP3A	X	22.349	45
17	MP3A	Z	0	45
18	MP3A	Mx	-.011	45
19	MP1A	X	19.746	6
20	MP1A	Z	0	6
21	MP1A	Mx	-.01	6
22	MP1A	X	19.746	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	0	42
24	MP1A	Mx	-.01	42
25	MP5A	X	19.746	6
26	MP5A	Z	0	6
27	MP5A	Mx	-.01	6
28	MP5A	X	19.746	42
29	MP5A	Z	0	42
30	MP5A	Mx	-.01	42
31	MP2A	X	2.782	84
32	MP2A	Z	0	84
33	MP2A	Mx	-.001	84
34	M10	X	3.144	72
35	M10	Z	0	72
36	M10	Mx	-.002	72
37	MP3A	X	10.729	36
38	MP3A	Z	0	36
39	MP3A	Mx	.005	36
40	MP4A	X	9.065	36
41	MP4A	Z	0	36
42	MP4A	Mx	.005	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	8.804	18
2	MP2A	Z	5.083	18
3	MP2A	Mx	-.004	18
4	MP2A	X	8.804	42
5	MP2A	Z	5.083	42
6	MP2A	Mx	-.004	42
7	MP3A	X	21.5	3
8	MP3A	Z	12.413	3
9	MP3A	Mx	-.003	3
10	MP3A	X	21.5	45
11	MP3A	Z	12.413	45
12	MP3A	Mx	-.003	45
13	MP3A	X	21.5	3
14	MP3A	Z	12.413	3
15	MP3A	Mx	-.019	3
16	MP3A	X	21.5	45
17	MP3A	Z	12.413	45
18	MP3A	Mx	-.019	45
19	MP1A	X	15.144	6
20	MP1A	Z	8.743	6
21	MP1A	Mx	-.008	6
22	MP1A	X	15.144	42
23	MP1A	Z	8.743	42
24	MP1A	Mx	-.008	42
25	MP5A	X	15.144	6
26	MP5A	Z	8.743	6
27	MP5A	Mx	-.008	6
28	MP5A	X	15.144	42
29	MP5A	Z	8.743	42
30	MP5A	Mx	-.008	42
31	MP2A	X	3.56	84
32	MP2A	Z	2.055	84
33	MP2A	Mx	-.002	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
34	M10	X	2.921	72
35	M10	Z	1.686	72
36	M10	Mx	-.001	72
37	MP3A	X	10.239	36
38	MP3A	Z	5.912	36
39	MP3A	Mx	.005	36
40	MP4A	X	9.159	36
41	MP4A	Z	5.288	36
42	MP4A	Mx	.005	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	7.495	18
2	MP2A	Z	12.981	18
3	MP2A	Mx	-.004	18
4	MP2A	X	7.495	42
5	MP2A	Z	12.981	42
6	MP2A	Mx	-.004	42
7	MP3A	X	14.89	3
8	MP3A	Z	25.79	3
9	MP3A	Mx	.009	3
10	MP3A	X	14.89	45
11	MP3A	Z	25.79	45
12	MP3A	Mx	.009	45
13	MP3A	X	14.89	3
14	MP3A	Z	25.79	3
15	MP3A	Mx	-.024	3
16	MP3A	X	14.89	45
17	MP3A	Z	25.79	45
18	MP3A	Mx	-.024	45
19	MP1A	X	6.484	6
20	MP1A	Z	11.23	6
21	MP1A	Mx	-.003	6
22	MP1A	X	6.484	42
23	MP1A	Z	11.23	42
24	MP1A	Mx	-.003	42
25	MP5A	X	6.484	6
26	MP5A	Z	11.23	6
27	MP5A	Mx	-.003	6
28	MP5A	X	6.484	42
29	MP5A	Z	11.23	42
30	MP5A	Mx	-.003	42
31	MP2A	X	3.385	84
32	MP2A	Z	5.863	84
33	MP2A	Mx	-.002	84
34	M10	X	1.914	72
35	M10	Z	3.316	72
36	M10	Mx	-.000957	72
37	MP3A	X	7.006	36
38	MP3A	Z	12.135	36
39	MP3A	Mx	.004	36
40	MP4A	X	6.798	36
41	MP4A	Z	11.775	36
42	MP4A	Mx	.003	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	18
2	MP2A	Z	17.401	18
3	MP2A	Mx	0	18
4	MP2A	X	0	42
5	MP2A	Z	17.401	42
6	MP2A	Mx	0	42
7	MP3A	X	0	3
8	MP3A	Z	32.256	3
9	MP3A	Mx	.02	3
10	MP3A	X	0	45
11	MP3A	Z	32.256	45
12	MP3A	Mx	.02	45
13	MP3A	X	0	3
14	MP3A	Z	32.256	3
15	MP3A	Mx	-.02	3
16	MP3A	X	0	45
17	MP3A	Z	32.256	45
18	MP3A	Mx	-.02	45
19	MP1A	X	0	6
20	MP1A	Z	10.708	6
21	MP1A	Mx	0	6
22	MP1A	X	0	42
23	MP1A	Z	10.708	42
24	MP1A	Mx	0	42
25	MP5A	X	0	6
26	MP5A	Z	10.708	6
27	MP5A	Mx	0	6
28	MP5A	X	0	42
29	MP5A	Z	10.708	42
30	MP5A	Mx	0	42
31	MP2A	X	0	84
32	MP2A	Z	8.099	84
33	MP2A	Mx	0	84
34	M10	X	0	72
35	M10	Z	4.057	72
36	M10	Mx	0	72
37	MP3A	X	0	36
38	MP3A	Z	15.107	36
39	MP3A	Mx	0	36
40	MP4A	X	0	36
41	MP4A	Z	15.107	36
42	MP4A	Mx	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-7.495	18
2	MP2A	Z	12.981	18
3	MP2A	Mx	.004	18
4	MP2A	X	-7.495	42
5	MP2A	Z	12.981	42
6	MP2A	Mx	.004	42
7	MP3A	X	-14.89	3
8	MP3A	Z	25.79	3
9	MP3A	Mx	.024	3
10	MP3A	X	-14.89	45
11	MP3A	Z	25.79	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	.024	45
13	MP3A	X	-14.89	3
14	MP3A	Z	25.79	3
15	MP3A	Mx	-.009	3
16	MP3A	X	-14.89	45
17	MP3A	Z	25.79	45
18	MP3A	Mx	-.009	45
19	MP1A	X	-6.484	6
20	MP1A	Z	11.23	6
21	MP1A	Mx	.003	6
22	MP1A	X	-6.484	42
23	MP1A	Z	11.23	42
24	MP1A	Mx	.003	42
25	MP5A	X	-6.484	6
26	MP5A	Z	11.23	6
27	MP5A	Mx	.003	6
28	MP5A	X	-6.484	42
29	MP5A	Z	11.23	42
30	MP5A	Mx	.003	42
31	MP2A	X	-3.385	84
32	MP2A	Z	5.863	84
33	MP2A	Mx	.002	84
34	M10	X	-1.914	72
35	M10	Z	3.316	72
36	M10	Mx	.000957	72
37	MP3A	X	-7.006	36
38	MP3A	Z	12.135	36
39	MP3A	Mx	-.004	36
40	MP4A	X	-6.798	36
41	MP4A	Z	11.775	36
42	MP4A	Mx	-.003	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-8.804	18
2	MP2A	Z	5.083	18
3	MP2A	Mx	.004	18
4	MP2A	X	-8.804	42
5	MP2A	Z	5.083	42
6	MP2A	Mx	.004	42
7	MP3A	X	-21.5	3
8	MP3A	Z	12.413	3
9	MP3A	Mx	.019	3
10	MP3A	X	-21.5	45
11	MP3A	Z	12.413	45
12	MP3A	Mx	.019	45
13	MP3A	X	-21.5	3
14	MP3A	Z	12.413	3
15	MP3A	Mx	.003	3
16	MP3A	X	-21.5	45
17	MP3A	Z	12.413	45
18	MP3A	Mx	.003	45
19	MP1A	X	-15.144	6
20	MP1A	Z	8.743	6
21	MP1A	Mx	.008	6
22	MP1A	X	-15.144	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	8.743	42
24	MP1A	Mx	.008	42
25	MP5A	X	-15.144	6
26	MP5A	Z	8.743	6
27	MP5A	Mx	.008	6
28	MP5A	X	-15.144	42
29	MP5A	Z	8.743	42
30	MP5A	Mx	.008	42
31	MP2A	X	-3.56	84
32	MP2A	Z	2.055	84
33	MP2A	Mx	.002	84
34	M10	X	-2.921	72
35	M10	Z	1.686	72
36	M10	Mx	.001	72
37	MP3A	X	-10.239	36
38	MP3A	Z	5.912	36
39	MP3A	Mx	-.005	36
40	MP4A	X	-9.159	36
41	MP4A	Z	5.288	36
42	MP4A	Mx	-.005	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-7.754	18
2	MP2A	Z	0	18
3	MP2A	Mx	.004	18
4	MP2A	X	-7.754	42
5	MP2A	Z	0	42
6	MP2A	Mx	.004	42
7	MP3A	X	-22.349	3
8	MP3A	Z	0	3
9	MP3A	Mx	.011	3
10	MP3A	X	-22.349	45
11	MP3A	Z	0	45
12	MP3A	Mx	.011	45
13	MP3A	X	-22.349	3
14	MP3A	Z	0	3
15	MP3A	Mx	.011	3
16	MP3A	X	-22.349	45
17	MP3A	Z	0	45
18	MP3A	Mx	.011	45
19	MP1A	X	-19.746	6
20	MP1A	Z	0	6
21	MP1A	Mx	.01	6
22	MP1A	X	-19.746	42
23	MP1A	Z	0	42
24	MP1A	Mx	.01	42
25	MP5A	X	-19.746	6
26	MP5A	Z	0	6
27	MP5A	Mx	.01	6
28	MP5A	X	-19.746	42
29	MP5A	Z	0	42
30	MP5A	Mx	.01	42
31	MP2A	X	-2.782	84
32	MP2A	Z	0	84
33	MP2A	Mx	.001	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
34	M10	X	-3.144	72
35	M10	Z	0	72
36	M10	Mx	.002	72
37	MP3A	X	-10.729	36
38	MP3A	Z	0	36
39	MP3A	Mx	-.005	36
40	MP4A	X	-9.065	36
41	MP4A	Z	0	36
42	MP4A	Mx	-.005	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-8.804	18
2	MP2A	Z	-5.083	18
3	MP2A	Mx	.004	18
4	MP2A	X	-8.804	42
5	MP2A	Z	-5.083	42
6	MP2A	Mx	.004	42
7	MP3A	X	-21.5	3
8	MP3A	Z	-12.413	3
9	MP3A	Mx	.003	3
10	MP3A	X	-21.5	45
11	MP3A	Z	-12.413	45
12	MP3A	Mx	.003	45
13	MP3A	X	-21.5	3
14	MP3A	Z	-12.413	3
15	MP3A	Mx	.019	3
16	MP3A	X	-21.5	45
17	MP3A	Z	-12.413	45
18	MP3A	Mx	.019	45
19	MP1A	X	-15.144	6
20	MP1A	Z	-8.743	6
21	MP1A	Mx	.008	6
22	MP1A	X	-15.144	42
23	MP1A	Z	-8.743	42
24	MP1A	Mx	.008	42
25	MP5A	X	-15.144	6
26	MP5A	Z	-8.743	6
27	MP5A	Mx	.008	6
28	MP5A	X	-15.144	42
29	MP5A	Z	-8.743	42
30	MP5A	Mx	.008	42
31	MP2A	X	-3.56	84
32	MP2A	Z	-2.055	84
33	MP2A	Mx	.002	84
34	M10	X	-2.921	72
35	M10	Z	-1.686	72
36	M10	Mx	.001	72
37	MP3A	X	-10.239	36
38	MP3A	Z	-5.912	36
39	MP3A	Mx	-.005	36
40	MP4A	X	-9.159	36
41	MP4A	Z	-5.288	36
42	MP4A	Mx	-.005	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-7.495	18
2	MP2A	Z	-12.981	18
3	MP2A	Mx	.004	18
4	MP2A	X	-7.495	42
5	MP2A	Z	-12.981	42
6	MP2A	Mx	.004	42
7	MP3A	X	-14.89	3
8	MP3A	Z	-25.79	3
9	MP3A	Mx	-.009	3
10	MP3A	X	-14.89	45
11	MP3A	Z	-25.79	45
12	MP3A	Mx	-.009	45
13	MP3A	X	-14.89	3
14	MP3A	Z	-25.79	3
15	MP3A	Mx	.024	3
16	MP3A	X	-14.89	45
17	MP3A	Z	-25.79	45
18	MP3A	Mx	.024	45
19	MP1A	X	-6.484	6
20	MP1A	Z	-11.23	6
21	MP1A	Mx	.003	6
22	MP1A	X	-6.484	42
23	MP1A	Z	-11.23	42
24	MP1A	Mx	.003	42
25	MP5A	X	-6.484	6
26	MP5A	Z	-11.23	6
27	MP5A	Mx	.003	6
28	MP5A	X	-6.484	42
29	MP5A	Z	-11.23	42
30	MP5A	Mx	.003	42
31	MP2A	X	-3.385	84
32	MP2A	Z	-5.863	84
33	MP2A	Mx	.002	84
34	M10	X	-1.914	72
35	M10	Z	-3.316	72
36	M10	Mx	.000957	72
37	MP3A	X	-7.006	36
38	MP3A	Z	-12.135	36
39	MP3A	Mx	-.004	36
40	MP4A	X	-6.798	36
41	MP4A	Z	-11.775	36
42	MP4A	Mx	-.003	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	18
2	MP2A	Z	-5.206	18
3	MP2A	Mx	0	18
4	MP2A	X	0	42
5	MP2A	Z	-5.206	42
6	MP2A	Mx	0	42
7	MP3A	X	0	3
8	MP3A	Z	-10.091	3
9	MP3A	Mx	-.006	3
10	MP3A	X	0	45
11	MP3A	Z	-10.091	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	-.006	45
13	MP3A	X	0	3
14	MP3A	Z	-10.091	3
15	MP3A	Mx	.006	3
16	MP3A	X	0	45
17	MP3A	Z	-10.091	45
18	MP3A	Mx	.006	45
19	MP1A	X	0	6
20	MP1A	Z	-2.891	6
21	MP1A	Mx	0	6
22	MP1A	X	0	42
23	MP1A	Z	-2.891	42
24	MP1A	Mx	0	42
25	MP5A	X	0	6
26	MP5A	Z	-2.891	6
27	MP5A	Mx	0	6
28	MP5A	X	0	42
29	MP5A	Z	-2.891	42
30	MP5A	Mx	0	42
31	MP2A	X	0	84
32	MP2A	Z	-1.972	84
33	MP2A	Mx	0	84
34	M10	X	0	72
35	M10	Z	-.82	72
36	M10	Mx	0	72
37	MP3A	X	0	36
38	MP3A	Z	-4.143	36
39	MP3A	Mx	0	36
40	MP4A	X	0	36
41	MP4A	Z	-4.143	36
42	MP4A	Mx	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.207	18
2	MP2A	Z	-3.823	18
3	MP2A	Mx	-.001	18
4	MP2A	X	2.207	42
5	MP2A	Z	-3.823	42
6	MP2A	Mx	-.001	42
7	MP3A	X	4.613	3
8	MP3A	Z	-7.989	3
9	MP3A	Mx	-.007	3
10	MP3A	X	4.613	45
11	MP3A	Z	-7.989	45
12	MP3A	Mx	-.007	45
13	MP3A	X	4.613	3
14	MP3A	Z	-7.989	3
15	MP3A	Mx	.003	3
16	MP3A	X	4.613	45
17	MP3A	Z	-7.989	45
18	MP3A	Mx	.003	45
19	MP1A	X	1.832	6
20	MP1A	Z	-3.173	6
21	MP1A	Mx	-.000916	6
22	MP1A	X	1.832	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	-3.173	42
24	MP1A	Mx	-.000916	42
25	MP5A	X	1.832	6
26	MP5A	Z	-3.173	6
27	MP5A	Mx	-.000916	6
28	MP5A	X	1.832	42
29	MP5A	Z	-3.173	42
30	MP5A	Mx	-.000916	42
31	MP2A	X	.788	84
32	MP2A	Z	-1.364	84
33	MP2A	Mx	-.000394	84
34	M10	X	.378	72
35	M10	Z	-.655	72
36	M10	Mx	-.000189	72
37	MP3A	X	1.9	36
38	MP3A	Z	-3.29	36
39	MP3A	Mx	.00095	36
40	MP4A	X	1.834	36
41	MP4A	Z	-3.176	36
42	MP4A	Mx	.000917	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.451	18
2	MP2A	Z	-1.415	18
3	MP2A	Mx	-.001	18
4	MP2A	X	2.451	42
5	MP2A	Z	-1.415	42
6	MP2A	Mx	-.001	42
7	MP3A	X	6.49	3
8	MP3A	Z	-3.747	3
9	MP3A	Mx	-.006	3
10	MP3A	X	6.49	45
11	MP3A	Z	-3.747	45
12	MP3A	Mx	-.006	45
13	MP3A	X	6.49	3
14	MP3A	Z	-3.747	3
15	MP3A	Mx	-.000903	3
16	MP3A	X	6.49	45
17	MP3A	Z	-3.747	45
18	MP3A	Mx	-.000903	45
19	MP1A	X	4.51	6
20	MP1A	Z	-2.604	6
21	MP1A	Mx	-.002	6
22	MP1A	X	4.51	42
23	MP1A	Z	-2.604	42
24	MP1A	Mx	-.002	42
25	MP5A	X	4.51	6
26	MP5A	Z	-2.604	6
27	MP5A	Mx	-.002	6
28	MP5A	X	4.51	42
29	MP5A	Z	-2.604	42
30	MP5A	Mx	-.002	42
31	MP2A	X	.678	84
32	MP2A	Z	-.391	84
33	MP2A	Mx	-.000339	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
34	M10	X	.546	72
35	M10	Z	-.315	72
36	M10	Mx	-.000273	72
37	MP3A	X	2.696	36
38	MP3A	Z	-1.556	36
39	MP3A	Mx	.001	36
40	MP4A	X	2.354	36
41	MP4A	Z	-1.359	36
42	MP4A	Mx	.001	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.038	18
2	MP2A	Z	0	18
3	MP2A	Mx	-.001	18
4	MP2A	X	2.038	42
5	MP2A	Z	0	42
6	MP2A	Mx	-.001	42
7	MP3A	X	6.628	3
8	MP3A	Z	0	3
9	MP3A	Mx	-.003	3
10	MP3A	X	6.628	45
11	MP3A	Z	0	45
12	MP3A	Mx	-.003	45
13	MP3A	X	6.628	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.003	3
16	MP3A	X	6.628	45
17	MP3A	Z	0	45
18	MP3A	Mx	-.003	45
19	MP1A	X	5.98	6
20	MP1A	Z	0	6
21	MP1A	Mx	-.003	6
22	MP1A	X	5.98	42
23	MP1A	Z	0	42
24	MP1A	Mx	-.003	42
25	MP5A	X	5.98	6
26	MP5A	Z	0	6
27	MP5A	Mx	-.003	6
28	MP5A	X	5.98	42
29	MP5A	Z	0	42
30	MP5A	Mx	-.003	42
31	MP2A	X	.387	84
32	MP2A	Z	0	84
33	MP2A	Mx	-.000194	84
34	M10	X	.567	72
35	M10	Z	0	72
36	M10	Mx	-.000283	72
37	MP3A	X	2.769	36
38	MP3A	Z	0	36
39	MP3A	Mx	.001	36
40	MP4A	X	2.243	36
41	MP4A	Z	0	36
42	MP4A	Mx	.001	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.451	18
2	MP2A	Z	1.415	18
3	MP2A	Mx	-.001	18
4	MP2A	X	2.451	42
5	MP2A	Z	1.415	42
6	MP2A	Mx	-.001	42
7	MP3A	X	6.49	3
8	MP3A	Z	3.747	3
9	MP3A	Mx	-.000903	3
10	MP3A	X	6.49	45
11	MP3A	Z	3.747	45
12	MP3A	Mx	-.000903	45
13	MP3A	X	6.49	3
14	MP3A	Z	3.747	3
15	MP3A	Mx	-.006	3
16	MP3A	X	6.49	45
17	MP3A	Z	3.747	45
18	MP3A	Mx	-.006	45
19	MP1A	X	4.51	6
20	MP1A	Z	2.604	6
21	MP1A	Mx	-.002	6
22	MP1A	X	4.51	42
23	MP1A	Z	2.604	42
24	MP1A	Mx	-.002	42
25	MP5A	X	4.51	6
26	MP5A	Z	2.604	6
27	MP5A	Mx	-.002	6
28	MP5A	X	4.51	42
29	MP5A	Z	2.604	42
30	MP5A	Mx	-.002	42
31	MP2A	X	.678	84
32	MP2A	Z	.391	84
33	MP2A	Mx	-.000339	84
34	M10	X	.546	72
35	M10	Z	.315	72
36	M10	Mx	-.000273	72
37	MP3A	X	2.696	36
38	MP3A	Z	1.556	36
39	MP3A	Mx	.001	36
40	MP4A	X	2.354	36
41	MP4A	Z	1.359	36
42	MP4A	Mx	.001	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	2.207	18
2	MP2A	Z	3.823	18
3	MP2A	Mx	-.001	18
4	MP2A	X	2.207	42
5	MP2A	Z	3.823	42
6	MP2A	Mx	-.001	42
7	MP3A	X	4.613	3
8	MP3A	Z	7.989	3
9	MP3A	Mx	.003	3
10	MP3A	X	4.613	45
11	MP3A	Z	7.989	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	.003	45
13	MP3A	X	4.613	3
14	MP3A	Z	7.989	3
15	MP3A	Mx	-.007	3
16	MP3A	X	4.613	45
17	MP3A	Z	7.989	45
18	MP3A	Mx	-.007	45
19	MP1A	X	1.832	6
20	MP1A	Z	3.173	6
21	MP1A	Mx	-.000916	6
22	MP1A	X	1.832	42
23	MP1A	Z	3.173	42
24	MP1A	Mx	-.000916	42
25	MP5A	X	1.832	6
26	MP5A	Z	3.173	6
27	MP5A	Mx	-.000916	6
28	MP5A	X	1.832	42
29	MP5A	Z	3.173	42
30	MP5A	Mx	-.000916	42
31	MP2A	X	.788	84
32	MP2A	Z	1.364	84
33	MP2A	Mx	-.000394	84
34	M10	X	.378	72
35	M10	Z	.655	72
36	M10	Mx	-.000189	72
37	MP3A	X	1.9	36
38	MP3A	Z	3.29	36
39	MP3A	Mx	.00095	36
40	MP4A	X	1.834	36
41	MP4A	Z	3.176	36
42	MP4A	Mx	.000917	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	0	18
2	MP2A	Z	5.206	18
3	MP2A	Mx	0	18
4	MP2A	X	0	42
5	MP2A	Z	5.206	42
6	MP2A	Mx	0	42
7	MP3A	X	0	3
8	MP3A	Z	10.091	3
9	MP3A	Mx	.006	3
10	MP3A	X	0	45
11	MP3A	Z	10.091	45
12	MP3A	Mx	.006	45
13	MP3A	X	0	3
14	MP3A	Z	10.091	3
15	MP3A	Mx	-.006	3
16	MP3A	X	0	45
17	MP3A	Z	10.091	45
18	MP3A	Mx	-.006	45
19	MP1A	X	0	6
20	MP1A	Z	2.891	6
21	MP1A	Mx	0	6
22	MP1A	X	0	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	2.891	42
24	MP1A	Mx	0	42
25	MP5A	X	0	6
26	MP5A	Z	2.891	6
27	MP5A	Mx	0	6
28	MP5A	X	0	42
29	MP5A	Z	2.891	42
30	MP5A	Mx	0	42
31	MP2A	X	0	84
32	MP2A	Z	1.972	84
33	MP2A	Mx	0	84
34	M10	X	0	72
35	M10	Z	.82	72
36	M10	Mx	0	72
37	MP3A	X	0	36
38	MP3A	Z	4.143	36
39	MP3A	Mx	0	36
40	MP4A	X	0	36
41	MP4A	Z	4.143	36
42	MP4A	Mx	0	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.207	18
2	MP2A	Z	3.823	18
3	MP2A	Mx	.001	18
4	MP2A	X	-2.207	42
5	MP2A	Z	3.823	42
6	MP2A	Mx	.001	42
7	MP3A	X	-4.613	3
8	MP3A	Z	7.989	3
9	MP3A	Mx	.007	3
10	MP3A	X	-4.613	45
11	MP3A	Z	7.989	45
12	MP3A	Mx	.007	45
13	MP3A	X	-4.613	3
14	MP3A	Z	7.989	3
15	MP3A	Mx	-.003	3
16	MP3A	X	-4.613	45
17	MP3A	Z	7.989	45
18	MP3A	Mx	-.003	45
19	MP1A	X	-1.832	6
20	MP1A	Z	3.173	6
21	MP1A	Mx	.000916	6
22	MP1A	X	-1.832	42
23	MP1A	Z	3.173	42
24	MP1A	Mx	.000916	42
25	MP5A	X	-1.832	6
26	MP5A	Z	3.173	6
27	MP5A	Mx	.000916	6
28	MP5A	X	-1.832	42
29	MP5A	Z	3.173	42
30	MP5A	Mx	.000916	42
31	MP2A	X	-.788	84
32	MP2A	Z	1.364	84
33	MP2A	Mx	.000394	84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
34	M10	X	-.378	72
35	M10	Z	.655	72
36	M10	Mx	.000189	72
37	MP3A	X	-1.9	36
38	MP3A	Z	3.29	36
39	MP3A	Mx	-.00095	36
40	MP4A	X	-1.834	36
41	MP4A	Z	3.176	36
42	MP4A	Mx	-.000917	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.451	18
2	MP2A	Z	1.415	18
3	MP2A	Mx	.001	18
4	MP2A	X	-2.451	42
5	MP2A	Z	1.415	42
6	MP2A	Mx	.001	42
7	MP3A	X	-6.49	3
8	MP3A	Z	3.747	3
9	MP3A	Mx	.006	3
10	MP3A	X	-6.49	45
11	MP3A	Z	3.747	45
12	MP3A	Mx	.006	45
13	MP3A	X	-6.49	3
14	MP3A	Z	3.747	3
15	MP3A	Mx	.000903	3
16	MP3A	X	-6.49	45
17	MP3A	Z	3.747	45
18	MP3A	Mx	.000903	45
19	MP1A	X	-4.51	6
20	MP1A	Z	2.604	6
21	MP1A	Mx	.002	6
22	MP1A	X	-4.51	42
23	MP1A	Z	2.604	42
24	MP1A	Mx	.002	42
25	MP5A	X	-4.51	6
26	MP5A	Z	2.604	6
27	MP5A	Mx	.002	6
28	MP5A	X	-4.51	42
29	MP5A	Z	2.604	42
30	MP5A	Mx	.002	42
31	MP2A	X	-.678	84
32	MP2A	Z	.391	84
33	MP2A	Mx	.000339	84
34	M10	X	-.546	72
35	M10	Z	.315	72
36	M10	Mx	.000273	72
37	MP3A	X	-2.696	36
38	MP3A	Z	1.556	36
39	MP3A	Mx	-.001	36
40	MP4A	X	-2.354	36
41	MP4A	Z	1.359	36
42	MP4A	Mx	-.001	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.038	18
2	MP2A	Z	0	18
3	MP2A	Mx	.001	18
4	MP2A	X	-2.038	42
5	MP2A	Z	0	42
6	MP2A	Mx	.001	42
7	MP3A	X	-6.628	3
8	MP3A	Z	0	3
9	MP3A	Mx	.003	3
10	MP3A	X	-6.628	45
11	MP3A	Z	0	45
12	MP3A	Mx	.003	45
13	MP3A	X	-6.628	3
14	MP3A	Z	0	3
15	MP3A	Mx	.003	3
16	MP3A	X	-6.628	45
17	MP3A	Z	0	45
18	MP3A	Mx	.003	45
19	MP1A	X	-5.98	6
20	MP1A	Z	0	6
21	MP1A	Mx	.003	6
22	MP1A	X	-5.98	42
23	MP1A	Z	0	42
24	MP1A	Mx	.003	42
25	MP5A	X	-5.98	6
26	MP5A	Z	0	6
27	MP5A	Mx	.003	6
28	MP5A	X	-5.98	42
29	MP5A	Z	0	42
30	MP5A	Mx	.003	42
31	MP2A	X	-.387	84
32	MP2A	Z	0	84
33	MP2A	Mx	.000194	84
34	M10	X	-.567	72
35	M10	Z	0	72
36	M10	Mx	.000283	72
37	MP3A	X	-2.769	36
38	MP3A	Z	0	36
39	MP3A	Mx	-.001	36
40	MP4A	X	-2.243	36
41	MP4A	Z	0	36
42	MP4A	Mx	-.001	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.451	18
2	MP2A	Z	-1.415	18
3	MP2A	Mx	.001	18
4	MP2A	X	-2.451	42
5	MP2A	Z	-1.415	42
6	MP2A	Mx	.001	42
7	MP3A	X	-6.49	3
8	MP3A	Z	-3.747	3
9	MP3A	Mx	.000903	3
10	MP3A	X	-6.49	45
11	MP3A	Z	-3.747	45

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
12	MP3A	Mx	.000903	45
13	MP3A	X	-6.49	3
14	MP3A	Z	-3.747	3
15	MP3A	Mx	.006	3
16	MP3A	X	-6.49	45
17	MP3A	Z	-3.747	45
18	MP3A	Mx	.006	45
19	MP1A	X	-4.51	6
20	MP1A	Z	-2.604	6
21	MP1A	Mx	.002	6
22	MP1A	X	-4.51	42
23	MP1A	Z	-2.604	42
24	MP1A	Mx	.002	42
25	MP5A	X	-4.51	6
26	MP5A	Z	-2.604	6
27	MP5A	Mx	.002	6
28	MP5A	X	-4.51	42
29	MP5A	Z	-2.604	42
30	MP5A	Mx	.002	42
31	MP2A	X	-.678	84
32	MP2A	Z	-.391	84
33	MP2A	Mx	.000339	84
34	M10	X	-.546	72
35	M10	Z	-.315	72
36	M10	Mx	.000273	72
37	MP3A	X	-2.696	36
38	MP3A	Z	-1.556	36
39	MP3A	Mx	-.001	36
40	MP4A	X	-2.354	36
41	MP4A	Z	-1.359	36
42	MP4A	Mx	-.001	36

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	MP2A	X	-2.207	18
2	MP2A	Z	-3.823	18
3	MP2A	Mx	.001	18
4	MP2A	X	-2.207	42
5	MP2A	Z	-3.823	42
6	MP2A	Mx	.001	42
7	MP3A	X	-4.613	3
8	MP3A	Z	-7.989	3
9	MP3A	Mx	-.003	3
10	MP3A	X	-4.613	45
11	MP3A	Z	-7.989	45
12	MP3A	Mx	-.003	45
13	MP3A	X	-4.613	3
14	MP3A	Z	-7.989	3
15	MP3A	Mx	.007	3
16	MP3A	X	-4.613	45
17	MP3A	Z	-7.989	45
18	MP3A	Mx	.007	45
19	MP1A	X	-1.832	6
20	MP1A	Z	-3.173	6
21	MP1A	Mx	.000916	6
22	MP1A	X	-1.832	42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
23	MP1A	Z	-3.173	42
24	MP1A	Mx	.000916	42
25	MP5A	X	-1.832	6
26	MP5A	Z	-3.173	6
27	MP5A	Mx	.000916	6
28	MP5A	X	-1.832	42
29	MP5A	Z	-3.173	42
30	MP5A	Mx	.000916	42
31	MP2A	X	-.788	84
32	MP2A	Z	-1.364	84
33	MP2A	Mx	.000394	84
34	M10	X	-.378	72
35	M10	Z	-.655	72
36	M10	Mx	.000189	72
37	MP3A	X	-1.9	36
38	MP3A	Z	-3.29	36
39	MP3A	Mx	-.00095	36
40	MP4A	X	-1.834	36
41	MP4A	Z	-3.176	36
42	MP4A	Mx	-.000917	36

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M42	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M51	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M10	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[in,%]
1	M10	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	Y	-14.716	-14.716	0	%100
2	M5	Y	-10.424	-10.424	0	%100
3	M6	Y	-10.424	-10.424	0	%100
4	M7	Y	-9.016	-9.016	0	%100
5	M8	Y	-10.424	-10.424	0	%100
6	M9	Y	-10.424	-10.424	0	%100
7	M10	Y	-9.016	-9.016	0	%100
8	M11	Y	-9.016	-9.016	0	%100
9	M12	Y	-9.016	-9.016	0	%100
10	M13	Y	-9.016	-9.016	0	%100
11	M14	Y	-9.016	-9.016	0	%100
12	M15	Y	-10.424	-10.424	0	%100
13	M17	Y	-10.424	-10.424	0	%100
14	M19	Y	-10.424	-10.424	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
15	M20	Y	-10.424	-10.424	0	%100
16	M21	Y	-10.424	-10.424	0	%100
17	M22	Y	-7.464	-7.464	0	%100
18	M23	Y	-7.464	-7.464	0	%100
19	M24	Y	-9.016	-9.016	0	%100
20	M25	Y	-10.424	-10.424	0	%100
21	M26	Y	-10.424	-10.424	0	%100
22	M27	Y	-7.464	-7.464	0	%100
23	M28	Y	-10.424	-10.424	0	%100
24	M29	Y	-7.464	-7.464	0	%100
25	M30	Y	-10.424	-10.424	0	%100
26	M31	Y	-10.424	-10.424	0	%100
27	M32	Y	-10.424	-10.424	0	%100
28	M33	Y	-7.464	-7.464	0	%100
29	M34	Y	-7.464	-7.464	0	%100
30	M35	Y	-9.016	-9.016	0	%100
31	M36	Y	-10.424	-10.424	0	%100
32	MP5A	Y	-9.016	-9.016	0	%100
33	MP3A	Y	-9.016	-9.016	0	%100
34	MP1A	Y	-9.016	-9.016	0	%100
35	M52	Y	-9.016	-9.016	0	%100
36	M53	Y	-7.464	-7.464	0	%100
37	M54	Y	-7.464	-7.464	0	%100
38	MP4A	Y	-9.016	-9.016	0	%100
39	MP2A	Y	-9.016	-9.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	-10.282	-10.282	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	-.63	-.63	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-.63	-.63	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-8.14	-8.14	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.63	-.63	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-.63	-.63	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	-8.14	-8.14	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	-3.993	-3.993	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	-3.993	-3.993	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-3.993	-3.993	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-3.993	-3.993	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-1.357	-1.357	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-1.357	-1.357	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	-1.821	-1.821	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
29	M20	X	0	0	0	%100
30	M20	Z	-1.357	-1.357	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	-1.357	-1.357	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-5.467	-5.467	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-5.467	-5.467	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	-6.212	-6.212	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	-1.821	-1.821	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	-1.357	-1.357	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	-4.723	-4.723	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	-1.357	-1.357	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	-4.723	-4.723	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	-1.821	-1.821	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	-1.357	-1.357	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	-1.357	-1.357	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	-5.467	-5.467	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	-5.467	-5.467	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	-6.212	-6.212	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	-1.821	-1.821	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	-8.14	-8.14	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	-8.14	-8.14	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-8.14	-8.14	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-.187	-.187	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-4.723	-4.723	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-4.723	-4.723	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	-8.14	-8.14	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-8.14	-8.14	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	3.856	3.856	0	%100
2	M3	Z	-6.679	-6.679	0	%100
3	M5	X	.04	.04	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
4	M5	Z	-.069	-.069	0	%100
5	M6	X	.596	.596	0	%100
6	M6	Z	-1.033	-1.033	0	%100
7	M7	X	3.053	3.053	0	%100
8	M7	Z	-5.287	-5.287	0	%100
9	M8	X	.04	.04	0	%100
10	M8	Z	-.069	-.069	0	%100
11	M9	X	.596	.596	0	%100
12	M9	Z	-1.033	-1.033	0	%100
13	M10	X	3.053	3.053	0	%100
14	M10	Z	-5.287	-5.287	0	%100
15	M11	X	.254	.254	0	%100
16	M11	Z	-.439	-.439	0	%100
17	M12	X	3.778	3.778	0	%100
18	M12	Z	-6.543	-6.543	0	%100
19	M13	X	.254	.254	0	%100
20	M13	Z	-.439	-.439	0	%100
21	M14	X	3.778	3.778	0	%100
22	M14	Z	-6.543	-6.543	0	%100
23	M15	X	1.794	1.794	0	%100
24	M15	Z	-3.107	-3.107	0	%100
25	M17	X	1.794	1.794	0	%100
26	M17	Z	-3.107	-3.107	0	%100
27	M19	X	1.968	1.968	0	%100
28	M19	Z	-3.409	-3.409	0	%100
29	M20	X	1.794	1.794	0	%100
30	M20	Z	-3.107	-3.107	0	%100
31	M21	X	1.794	1.794	0	%100
32	M21	Z	-3.107	-3.107	0	%100
33	M22	X	2.734	2.734	0	%100
34	M22	Z	-4.735	-4.735	0	%100
35	M23	X	2.734	2.734	0	%100
36	M23	Z	-4.735	-4.735	0	%100
37	M24	X	3.106	3.106	0	%100
38	M24	Z	-5.38	-5.38	0	%100
39	M25	X	1.968	1.968	0	%100
40	M25	Z	-3.409	-3.409	0	%100
41	M26	X	1.794	1.794	0	%100
42	M26	Z	-3.107	-3.107	0	%100
43	M27	X	1.955	1.955	0	%100
44	M27	Z	-3.387	-3.387	0	%100
45	M28	X	1.794	1.794	0	%100
46	M28	Z	-3.107	-3.107	0	%100
47	M29	X	1.955	1.955	0	%100
48	M29	Z	-3.387	-3.387	0	%100
49	M30	X	1.968	1.968	0	%100
50	M30	Z	-3.409	-3.409	0	%100
51	M31	X	1.794	1.794	0	%100
52	M31	Z	-3.107	-3.107	0	%100
53	M32	X	1.794	1.794	0	%100
54	M32	Z	-3.107	-3.107	0	%100
55	M33	X	2.734	2.734	0	%100
56	M33	Z	-4.735	-4.735	0	%100
57	M34	X	2.734	2.734	0	%100
58	M34	Z	-4.735	-4.735	0	%100
59	M35	X	3.106	3.106	0	%100
60	M35	Z	-5.38	-5.38	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
61	M36	X	1.968	1.968	0	%100
62	M36	Z	-3.409	-3.409	0	%100
63	MP5A	X	4.07	4.07	0	%100
64	MP5A	Z	-7.05	-7.05	0	%100
65	MP3A	X	4.07	4.07	0	%100
66	MP3A	Z	-7.05	-7.05	0	%100
67	MP1A	X	4.07	4.07	0	%100
68	MP1A	Z	-7.05	-7.05	0	%100
69	M52	X	.536	.536	0	%100
70	M52	Z	-.929	-.929	0	%100
71	M53	X	2.777	2.777	0	%100
72	M53	Z	-4.809	-4.809	0	%100
73	M54	X	2.777	2.777	0	%100
74	M54	Z	-4.809	-4.809	0	%100
75	MP4A	X	4.07	4.07	0	%100
76	MP4A	Z	-7.05	-7.05	0	%100
77	MP2A	X	4.07	4.07	0	%100
78	MP2A	Z	-7.05	-7.05	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	2.226	2.226	0	%100
2	M3	Z	-1.285	-1.285	0	%100
3	M5	X	.08	.08	0	%100
4	M5	Z	-.046	-.046	0	%100
5	M6	X	1.044	1.044	0	%100
6	M6	Z	-.603	-.603	0	%100
7	M7	X	1.762	1.762	0	%100
8	M7	Z	-1.018	-1.018	0	%100
9	M8	X	.08	.08	0	%100
10	M8	Z	-.046	-.046	0	%100
11	M9	X	1.044	1.044	0	%100
12	M9	Z	-.603	-.603	0	%100
13	M10	X	1.762	1.762	0	%100
14	M10	Z	-1.018	-1.018	0	%100
15	M11	X	.506	.506	0	%100
16	M11	Z	-.292	-.292	0	%100
17	M12	X	6.61	6.61	0	%100
18	M12	Z	-3.817	-3.817	0	%100
19	M13	X	.506	.506	0	%100
20	M13	Z	-.292	-.292	0	%100
21	M14	X	6.61	6.61	0	%100
22	M14	Z	-3.817	-3.817	0	%100
23	M15	X	6.972	6.972	0	%100
24	M15	Z	-4.025	-4.025	0	%100
25	M17	X	6.972	6.972	0	%100
26	M17	Z	-4.025	-4.025	0	%100
27	M19	X	7.073	7.073	0	%100
28	M19	Z	-4.083	-4.083	0	%100
29	M20	X	6.972	6.972	0	%100
30	M20	Z	-4.025	-4.025	0	%100
31	M21	X	6.972	6.972	0	%100
32	M21	Z	-4.025	-4.025	0	%100
33	M22	X	4.735	4.735	0	%100
34	M22	Z	-2.734	-2.734	0	%100
35	M23	X	4.735	4.735	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
36	M23	Z	-2.734	-2.734	0	%100
37	M24	X	5.38	5.38	0	%100
38	M24	Z	-3.106	-3.106	0	%100
39	M25	X	7.073	7.073	0	%100
40	M25	Z	-4.083	-4.083	0	%100
41	M26	X	6.972	6.972	0	%100
42	M26	Z	-4.025	-4.025	0	%100
43	M27	X	3.402	3.402	0	%100
44	M27	Z	-1.964	-1.964	0	%100
45	M28	X	6.972	6.972	0	%100
46	M28	Z	-4.025	-4.025	0	%100
47	M29	X	3.402	3.402	0	%100
48	M29	Z	-1.964	-1.964	0	%100
49	M30	X	7.073	7.073	0	%100
50	M30	Z	-4.083	-4.083	0	%100
51	M31	X	6.972	6.972	0	%100
52	M31	Z	-4.025	-4.025	0	%100
53	M32	X	6.972	6.972	0	%100
54	M32	Z	-4.025	-4.025	0	%100
55	M33	X	4.735	4.735	0	%100
56	M33	Z	-2.734	-2.734	0	%100
57	M34	X	4.735	4.735	0	%100
58	M34	Z	-2.734	-2.734	0	%100
59	M35	X	5.38	5.38	0	%100
60	M35	Z	-3.106	-3.106	0	%100
61	M36	X	7.073	7.073	0	%100
62	M36	Z	-4.083	-4.083	0	%100
63	MP5A	X	7.05	7.05	0	%100
64	MP5A	Z	-4.07	-4.07	0	%100
65	MP3A	X	7.05	7.05	0	%100
66	MP3A	Z	-4.07	-4.07	0	%100
67	MP1A	X	7.05	7.05	0	%100
68	MP1A	Z	-4.07	-4.07	0	%100
69	M52	X	4.292	4.292	0	%100
70	M52	Z	-2.478	-2.478	0	%100
71	M53	X	4.825	4.825	0	%100
72	M53	Z	-2.786	-2.786	0	%100
73	M54	X	4.825	4.825	0	%100
74	M54	Z	-2.786	-2.786	0	%100
75	MP4A	X	7.05	7.05	0	%100
76	MP4A	Z	-4.07	-4.07	0	%100
77	MP2A	X	7.05	7.05	0	%100
78	MP2A	Z	-4.07	-4.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	.655	.655	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	.655	.655	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	.655	.655	0	%100
10	M8	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
11	M9	X	.655	.655	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	4.148	4.148	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	4.148	4.148	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	4.148	4.148	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	4.148	4.148	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	10.282	10.282	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	10.282	10.282	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	10.282	10.282	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	10.282	10.282	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	10.282	10.282	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	5.467	5.467	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	5.467	5.467	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	6.212	6.212	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	10.282	10.282	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	10.282	10.282	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	4.759	4.759	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	10.282	10.282	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	4.759	4.759	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	10.282	10.282	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	10.282	10.282	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	10.282	10.282	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	5.467	5.467	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	5.467	5.467	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	6.212	6.212	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	10.282	10.282	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	8.14	8.14	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	8.14	8.14	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	8.14	8.14	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
68	MP1A	Z	0	0	0	%100
69	M52	X	7.953	7.953	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	4.759	4.759	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	4.759	4.759	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	8.14	8.14	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	8.14	8.14	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	2.226	2.226	0	%100
2	M3	Z	1.285	1.285	0	%100
3	M5	X	1.044	1.044	0	%100
4	M5	Z	.603	.603	0	%100
5	M6	X	.08	.08	0	%100
6	M6	Z	.046	.046	0	%100
7	M7	X	1.762	1.762	0	%100
8	M7	Z	1.018	1.018	0	%100
9	M8	X	1.044	1.044	0	%100
10	M8	Z	.603	.603	0	%100
11	M9	X	.08	.08	0	%100
12	M9	Z	.046	.046	0	%100
13	M10	X	1.762	1.762	0	%100
14	M10	Z	1.018	1.018	0	%100
15	M11	X	6.61	6.61	0	%100
16	M11	Z	3.817	3.817	0	%100
17	M12	X	.506	.506	0	%100
18	M12	Z	.292	.292	0	%100
19	M13	X	6.61	6.61	0	%100
20	M13	Z	3.817	3.817	0	%100
21	M14	X	.506	.506	0	%100
22	M14	Z	.292	.292	0	%100
23	M15	X	6.972	6.972	0	%100
24	M15	Z	4.025	4.025	0	%100
25	M17	X	6.972	6.972	0	%100
26	M17	Z	4.025	4.025	0	%100
27	M19	X	7.073	7.073	0	%100
28	M19	Z	4.083	4.083	0	%100
29	M20	X	6.972	6.972	0	%100
30	M20	Z	4.025	4.025	0	%100
31	M21	X	6.972	6.972	0	%100
32	M21	Z	4.025	4.025	0	%100
33	M22	X	4.735	4.735	0	%100
34	M22	Z	2.734	2.734	0	%100
35	M23	X	4.735	4.735	0	%100
36	M23	Z	2.734	2.734	0	%100
37	M24	X	5.38	5.38	0	%100
38	M24	Z	3.106	3.106	0	%100
39	M25	X	7.073	7.073	0	%100
40	M25	Z	4.083	4.083	0	%100
41	M26	X	6.972	6.972	0	%100
42	M26	Z	4.025	4.025	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
43	M27	X	4.825	4.825	0	%100
44	M27	Z	2.786	2.786	0	%100
45	M28	X	6.972	6.972	0	%100
46	M28	Z	4.025	4.025	0	%100
47	M29	X	4.825	4.825	0	%100
48	M29	Z	2.786	2.786	0	%100
49	M30	X	7.073	7.073	0	%100
50	M30	Z	4.083	4.083	0	%100
51	M31	X	6.972	6.972	0	%100
52	M31	Z	4.025	4.025	0	%100
53	M32	X	6.972	6.972	0	%100
54	M32	Z	4.025	4.025	0	%100
55	M33	X	4.735	4.735	0	%100
56	M33	Z	2.734	2.734	0	%100
57	M34	X	4.735	4.735	0	%100
58	M34	Z	2.734	2.734	0	%100
59	M35	X	5.38	5.38	0	%100
60	M35	Z	3.106	3.106	0	%100
61	M36	X	7.073	7.073	0	%100
62	M36	Z	4.083	4.083	0	%100
63	MP5A	X	7.05	7.05	0	%100
64	MP5A	Z	4.07	4.07	0	%100
65	MP3A	X	7.05	7.05	0	%100
66	MP3A	Z	4.07	4.07	0	%100
67	MP1A	X	7.05	7.05	0	%100
68	MP1A	Z	4.07	4.07	0	%100
69	M52	X	6.121	6.121	0	%100
70	M52	Z	3.534	3.534	0	%100
71	M53	X	3.402	3.402	0	%100
72	M53	Z	1.964	1.964	0	%100
73	M54	X	3.402	3.402	0	%100
74	M54	Z	1.964	1.964	0	%100
75	MP4A	X	7.05	7.05	0	%100
76	MP4A	Z	4.07	4.07	0	%100
77	MP2A	X	7.05	7.05	0	%100
78	MP2A	Z	4.07	4.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	3.856	3.856	0	%100
2	M3	Z	6.679	6.679	0	%100
3	M5	X	.596	.596	0	%100
4	M5	Z	1.033	1.033	0	%100
5	M6	X	.04	.04	0	%100
6	M6	Z	.069	.069	0	%100
7	M7	X	3.053	3.053	0	%100
8	M7	Z	5.287	5.287	0	%100
9	M8	X	.596	.596	0	%100
10	M8	Z	1.033	1.033	0	%100
11	M9	X	.04	.04	0	%100
12	M9	Z	.069	.069	0	%100
13	M10	X	3.053	3.053	0	%100
14	M10	Z	5.287	5.287	0	%100
15	M11	X	3.778	3.778	0	%100
16	M11	Z	6.543	6.543	0	%100
17	M12	X	.254	.254	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
18	M12	Z	.439	.439	0	%100
19	M13	X	3.778	3.778	0	%100
20	M13	Z	6.543	6.543	0	%100
21	M14	X	.254	.254	0	%100
22	M14	Z	.439	.439	0	%100
23	M15	X	1.794	1.794	0	%100
24	M15	Z	3.107	3.107	0	%100
25	M17	X	1.794	1.794	0	%100
26	M17	Z	3.107	3.107	0	%100
27	M19	X	1.968	1.968	0	%100
28	M19	Z	3.409	3.409	0	%100
29	M20	X	1.794	1.794	0	%100
30	M20	Z	3.107	3.107	0	%100
31	M21	X	1.794	1.794	0	%100
32	M21	Z	3.107	3.107	0	%100
33	M22	X	2.734	2.734	0	%100
34	M22	Z	4.735	4.735	0	%100
35	M23	X	2.734	2.734	0	%100
36	M23	Z	4.735	4.735	0	%100
37	M24	X	3.106	3.106	0	%100
38	M24	Z	5.38	5.38	0	%100
39	M25	X	1.968	1.968	0	%100
40	M25	Z	3.409	3.409	0	%100
41	M26	X	1.794	1.794	0	%100
42	M26	Z	3.107	3.107	0	%100
43	M27	X	2.777	2.777	0	%100
44	M27	Z	4.809	4.809	0	%100
45	M28	X	1.794	1.794	0	%100
46	M28	Z	3.107	3.107	0	%100
47	M29	X	2.777	2.777	0	%100
48	M29	Z	4.809	4.809	0	%100
49	M30	X	1.968	1.968	0	%100
50	M30	Z	3.409	3.409	0	%100
51	M31	X	1.794	1.794	0	%100
52	M31	Z	3.107	3.107	0	%100
53	M32	X	1.794	1.794	0	%100
54	M32	Z	3.107	3.107	0	%100
55	M33	X	2.734	2.734	0	%100
56	M33	Z	4.735	4.735	0	%100
57	M34	X	2.734	2.734	0	%100
58	M34	Z	4.735	4.735	0	%100
59	M35	X	3.106	3.106	0	%100
60	M35	Z	5.38	5.38	0	%100
61	M36	X	1.968	1.968	0	%100
62	M36	Z	3.409	3.409	0	%100
63	MP5A	X	4.07	4.07	0	%100
64	MP5A	Z	7.05	7.05	0	%100
65	MP3A	X	4.07	4.07	0	%100
66	MP3A	Z	7.05	7.05	0	%100
67	MP1A	X	4.07	4.07	0	%100
68	MP1A	Z	7.05	7.05	0	%100
69	M52	X	1.592	1.592	0	%100
70	M52	Z	2.758	2.758	0	%100
71	M53	X	1.955	1.955	0	%100
72	M53	Z	3.387	3.387	0	%100
73	M54	X	1.955	1.955	0	%100
74	M54	Z	3.387	3.387	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
75	MP4A	X	4.07	4.07	0	%100
76	MP4A	Z	7.05	7.05	0	%100
77	MP2A	X	4.07	4.07	0	%100
78	MP2A	Z	7.05	7.05	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	10.282	10.282	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	.63	.63	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.63	.63	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	8.14	8.14	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.63	.63	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.63	.63	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	8.14	8.14	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	3.993	3.993	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	3.993	3.993	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	3.993	3.993	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	3.993	3.993	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	1.357	1.357	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	1.357	1.357	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	1.821	1.821	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	1.357	1.357	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	1.357	1.357	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	5.467	5.467	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	5.467	5.467	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	6.212	6.212	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	1.821	1.821	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	1.357	1.357	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	4.723	4.723	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	1.357	1.357	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	4.723	4.723	0	%100
49	M30	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
50	M30	Z	1.821	1.821	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	1.357	1.357	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	1.357	1.357	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	5.467	5.467	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	5.467	5.467	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	6.212	6.212	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	1.821	1.821	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	8.14	8.14	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	8.14	8.14	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	8.14	8.14	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	.187	.187	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	4.723	4.723	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	4.723	4.723	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	8.14	8.14	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	8.14	8.14	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-3.856	-3.856	0	%100
2	M3	Z	6.679	6.679	0	%100
3	M5	X	-.04	-.04	0	%100
4	M5	Z	.069	.069	0	%100
5	M6	X	-.596	-.596	0	%100
6	M6	Z	1.033	1.033	0	%100
7	M7	X	-3.053	-3.053	0	%100
8	M7	Z	5.287	5.287	0	%100
9	M8	X	-.04	-.04	0	%100
10	M8	Z	.069	.069	0	%100
11	M9	X	-.596	-.596	0	%100
12	M9	Z	1.033	1.033	0	%100
13	M10	X	-3.053	-3.053	0	%100
14	M10	Z	5.287	5.287	0	%100
15	M11	X	-.254	-.254	0	%100
16	M11	Z	.439	.439	0	%100
17	M12	X	-3.778	-3.778	0	%100
18	M12	Z	6.543	6.543	0	%100
19	M13	X	-.254	-.254	0	%100
20	M13	Z	.439	.439	0	%100
21	M14	X	-3.778	-3.778	0	%100
22	M14	Z	6.543	6.543	0	%100
23	M15	X	-1.794	-1.794	0	%100
24	M15	Z	3.107	3.107	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
25	M17	X	-1.794	-1.794	0	%100
26	M17	Z	3.107	3.107	0	%100
27	M19	X	-1.968	-1.968	0	%100
28	M19	Z	3.409	3.409	0	%100
29	M20	X	-1.794	-1.794	0	%100
30	M20	Z	3.107	3.107	0	%100
31	M21	X	-1.794	-1.794	0	%100
32	M21	Z	3.107	3.107	0	%100
33	M22	X	-2.734	-2.734	0	%100
34	M22	Z	4.735	4.735	0	%100
35	M23	X	-2.734	-2.734	0	%100
36	M23	Z	4.735	4.735	0	%100
37	M24	X	-3.106	-3.106	0	%100
38	M24	Z	5.38	5.38	0	%100
39	M25	X	-1.968	-1.968	0	%100
40	M25	Z	3.409	3.409	0	%100
41	M26	X	-1.794	-1.794	0	%100
42	M26	Z	3.107	3.107	0	%100
43	M27	X	-1.955	-1.955	0	%100
44	M27	Z	3.387	3.387	0	%100
45	M28	X	-1.794	-1.794	0	%100
46	M28	Z	3.107	3.107	0	%100
47	M29	X	-1.955	-1.955	0	%100
48	M29	Z	3.387	3.387	0	%100
49	M30	X	-1.968	-1.968	0	%100
50	M30	Z	3.409	3.409	0	%100
51	M31	X	-1.794	-1.794	0	%100
52	M31	Z	3.107	3.107	0	%100
53	M32	X	-1.794	-1.794	0	%100
54	M32	Z	3.107	3.107	0	%100
55	M33	X	-2.734	-2.734	0	%100
56	M33	Z	4.735	4.735	0	%100
57	M34	X	-2.734	-2.734	0	%100
58	M34	Z	4.735	4.735	0	%100
59	M35	X	-3.106	-3.106	0	%100
60	M35	Z	5.38	5.38	0	%100
61	M36	X	-1.968	-1.968	0	%100
62	M36	Z	3.409	3.409	0	%100
63	MP5A	X	-4.07	-4.07	0	%100
64	MP5A	Z	7.05	7.05	0	%100
65	MP3A	X	-4.07	-4.07	0	%100
66	MP3A	Z	7.05	7.05	0	%100
67	MP1A	X	-4.07	-4.07	0	%100
68	MP1A	Z	7.05	7.05	0	%100
69	M52	X	-.536	-.536	0	%100
70	M52	Z	.929	.929	0	%100
71	M53	X	-2.777	-2.777	0	%100
72	M53	Z	4.809	4.809	0	%100
73	M54	X	-2.777	-2.777	0	%100
74	M54	Z	4.809	4.809	0	%100
75	MP4A	X	-4.07	-4.07	0	%100
76	MP4A	Z	7.05	7.05	0	%100
77	MP2A	X	-4.07	-4.07	0	%100
78	MP2A	Z	7.05	7.05	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-2.226	-2.226	0	%100
2	M3	Z	1.285	1.285	0	%100
3	M5	X	-.08	-.08	0	%100
4	M5	Z	.046	.046	0	%100
5	M6	X	-1.044	-1.044	0	%100
6	M6	Z	.603	.603	0	%100
7	M7	X	-1.762	-1.762	0	%100
8	M7	Z	1.018	1.018	0	%100
9	M8	X	-.08	-.08	0	%100
10	M8	Z	.046	.046	0	%100
11	M9	X	-1.044	-1.044	0	%100
12	M9	Z	.603	.603	0	%100
13	M10	X	-1.762	-1.762	0	%100
14	M10	Z	1.018	1.018	0	%100
15	M11	X	-.506	-.506	0	%100
16	M11	Z	.292	.292	0	%100
17	M12	X	-6.61	-6.61	0	%100
18	M12	Z	3.817	3.817	0	%100
19	M13	X	-.506	-.506	0	%100
20	M13	Z	.292	.292	0	%100
21	M14	X	-6.61	-6.61	0	%100
22	M14	Z	3.817	3.817	0	%100
23	M15	X	-6.972	-6.972	0	%100
24	M15	Z	4.025	4.025	0	%100
25	M17	X	-6.972	-6.972	0	%100
26	M17	Z	4.025	4.025	0	%100
27	M19	X	-7.073	-7.073	0	%100
28	M19	Z	4.083	4.083	0	%100
29	M20	X	-6.972	-6.972	0	%100
30	M20	Z	4.025	4.025	0	%100
31	M21	X	-6.972	-6.972	0	%100
32	M21	Z	4.025	4.025	0	%100
33	M22	X	-4.735	-4.735	0	%100
34	M22	Z	2.734	2.734	0	%100
35	M23	X	-4.735	-4.735	0	%100
36	M23	Z	2.734	2.734	0	%100
37	M24	X	-5.38	-5.38	0	%100
38	M24	Z	3.106	3.106	0	%100
39	M25	X	-7.073	-7.073	0	%100
40	M25	Z	4.083	4.083	0	%100
41	M26	X	-6.972	-6.972	0	%100
42	M26	Z	4.025	4.025	0	%100
43	M27	X	-3.402	-3.402	0	%100
44	M27	Z	1.964	1.964	0	%100
45	M28	X	-6.972	-6.972	0	%100
46	M28	Z	4.025	4.025	0	%100
47	M29	X	-3.402	-3.402	0	%100
48	M29	Z	1.964	1.964	0	%100
49	M30	X	-7.073	-7.073	0	%100
50	M30	Z	4.083	4.083	0	%100
51	M31	X	-6.972	-6.972	0	%100
52	M31	Z	4.025	4.025	0	%100
53	M32	X	-6.972	-6.972	0	%100
54	M32	Z	4.025	4.025	0	%100
55	M33	X	-4.735	-4.735	0	%100
56	M33	Z	2.734	2.734	0	%100
57	M34	X	-4.735	-4.735	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M34	Z	2.734	2.734	0	%100
59	M35	X	-5.38	-5.38	0	%100
60	M35	Z	3.106	3.106	0	%100
61	M36	X	-7.073	-7.073	0	%100
62	M36	Z	4.083	4.083	0	%100
63	MP5A	X	-7.05	-7.05	0	%100
64	MP5A	Z	4.07	4.07	0	%100
65	MP3A	X	-7.05	-7.05	0	%100
66	MP3A	Z	4.07	4.07	0	%100
67	MP1A	X	-7.05	-7.05	0	%100
68	MP1A	Z	4.07	4.07	0	%100
69	M52	X	-4.292	-4.292	0	%100
70	M52	Z	2.478	2.478	0	%100
71	M53	X	-4.825	-4.825	0	%100
72	M53	Z	2.786	2.786	0	%100
73	M54	X	-4.825	-4.825	0	%100
74	M54	Z	2.786	2.786	0	%100
75	MP4A	X	-7.05	-7.05	0	%100
76	MP4A	Z	4.07	4.07	0	%100
77	MP2A	X	-7.05	-7.05	0	%100
78	MP2A	Z	4.07	4.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	-.655	-.655	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	-.655	-.655	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	-.655	-.655	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-.655	-.655	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	-4.148	-4.148	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	-4.148	-4.148	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	-4.148	-4.148	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	-4.148	-4.148	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	-10.282	-10.282	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	-10.282	-10.282	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	-10.282	-10.282	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	-10.282	-10.282	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	-10.282	-10.282	0	%100
32	M21	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
33	M22	X	-5.467	-5.467	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-5.467	-5.467	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	-6.212	-6.212	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	-10.282	-10.282	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	-10.282	-10.282	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	-4.759	-4.759	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	-10.282	-10.282	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	-4.759	-4.759	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	-10.282	-10.282	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	-10.282	-10.282	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	-10.282	-10.282	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	-5.467	-5.467	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	-5.467	-5.467	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	-6.212	-6.212	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	-10.282	-10.282	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	-8.14	-8.14	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	-8.14	-8.14	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	-8.14	-8.14	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	-7.953	-7.953	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-4.759	-4.759	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-4.759	-4.759	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	-8.14	-8.14	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	-8.14	-8.14	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-2.226	-2.226	0	%100
2	M3	Z	-1.285	-1.285	0	%100
3	M5	X	-1.044	-1.044	0	%100
4	M5	Z	-.603	-.603	0	%100
5	M6	X	-.08	-.08	0	%100
6	M6	Z	-.046	-.046	0	%100
7	M7	X	-1.762	-1.762	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
8	M7	Z	-1.018	-1.018	0	%100
9	M8	X	-1.044	-1.044	0	%100
10	M8	Z	-.603	-.603	0	%100
11	M9	X	-.08	-.08	0	%100
12	M9	Z	-.046	-.046	0	%100
13	M10	X	-1.762	-1.762	0	%100
14	M10	Z	-1.018	-1.018	0	%100
15	M11	X	-6.61	-6.61	0	%100
16	M11	Z	-3.817	-3.817	0	%100
17	M12	X	-.506	-.506	0	%100
18	M12	Z	-.292	-.292	0	%100
19	M13	X	-6.61	-6.61	0	%100
20	M13	Z	-3.817	-3.817	0	%100
21	M14	X	-.506	-.506	0	%100
22	M14	Z	-.292	-.292	0	%100
23	M15	X	-6.972	-6.972	0	%100
24	M15	Z	-4.025	-4.025	0	%100
25	M17	X	-6.972	-6.972	0	%100
26	M17	Z	-4.025	-4.025	0	%100
27	M19	X	-7.073	-7.073	0	%100
28	M19	Z	-4.083	-4.083	0	%100
29	M20	X	-6.972	-6.972	0	%100
30	M20	Z	-4.025	-4.025	0	%100
31	M21	X	-6.972	-6.972	0	%100
32	M21	Z	-4.025	-4.025	0	%100
33	M22	X	-4.735	-4.735	0	%100
34	M22	Z	-2.734	-2.734	0	%100
35	M23	X	-4.735	-4.735	0	%100
36	M23	Z	-2.734	-2.734	0	%100
37	M24	X	-5.38	-5.38	0	%100
38	M24	Z	-3.106	-3.106	0	%100
39	M25	X	-7.073	-7.073	0	%100
40	M25	Z	-4.083	-4.083	0	%100
41	M26	X	-6.972	-6.972	0	%100
42	M26	Z	-4.025	-4.025	0	%100
43	M27	X	-4.825	-4.825	0	%100
44	M27	Z	-2.786	-2.786	0	%100
45	M28	X	-6.972	-6.972	0	%100
46	M28	Z	-4.025	-4.025	0	%100
47	M29	X	-4.825	-4.825	0	%100
48	M29	Z	-2.786	-2.786	0	%100
49	M30	X	-7.073	-7.073	0	%100
50	M30	Z	-4.083	-4.083	0	%100
51	M31	X	-6.972	-6.972	0	%100
52	M31	Z	-4.025	-4.025	0	%100
53	M32	X	-6.972	-6.972	0	%100
54	M32	Z	-4.025	-4.025	0	%100
55	M33	X	-4.735	-4.735	0	%100
56	M33	Z	-2.734	-2.734	0	%100
57	M34	X	-4.735	-4.735	0	%100
58	M34	Z	-2.734	-2.734	0	%100
59	M35	X	-5.38	-5.38	0	%100
60	M35	Z	-3.106	-3.106	0	%100
61	M36	X	-7.073	-7.073	0	%100
62	M36	Z	-4.083	-4.083	0	%100
63	MP5A	X	-7.05	-7.05	0	%100
64	MP5A	Z	-4.07	-4.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	MP3A	X	-7.05	-7.05	0	%100
66	MP3A	Z	-4.07	-4.07	0	%100
67	MP1A	X	-7.05	-7.05	0	%100
68	MP1A	Z	-4.07	-4.07	0	%100
69	M52	X	-6.121	-6.121	0	%100
70	M52	Z	-3.534	-3.534	0	%100
71	M53	X	-3.402	-3.402	0	%100
72	M53	Z	-1.964	-1.964	0	%100
73	M54	X	-3.402	-3.402	0	%100
74	M54	Z	-1.964	-1.964	0	%100
75	MP4A	X	-7.05	-7.05	0	%100
76	MP4A	Z	-4.07	-4.07	0	%100
77	MP2A	X	-7.05	-7.05	0	%100
78	MP2A	Z	-4.07	-4.07	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-3.856	-3.856	0	%100
2	M3	Z	-6.679	-6.679	0	%100
3	M5	X	-.596	-.596	0	%100
4	M5	Z	-1.033	-1.033	0	%100
5	M6	X	-.04	-.04	0	%100
6	M6	Z	-.069	-.069	0	%100
7	M7	X	-3.053	-3.053	0	%100
8	M7	Z	-5.287	-5.287	0	%100
9	M8	X	-.596	-.596	0	%100
10	M8	Z	-1.033	-1.033	0	%100
11	M9	X	-.04	-.04	0	%100
12	M9	Z	-.069	-.069	0	%100
13	M10	X	-3.053	-3.053	0	%100
14	M10	Z	-5.287	-5.287	0	%100
15	M11	X	-3.778	-3.778	0	%100
16	M11	Z	-6.543	-6.543	0	%100
17	M12	X	-.254	-.254	0	%100
18	M12	Z	-.439	-.439	0	%100
19	M13	X	-3.778	-3.778	0	%100
20	M13	Z	-6.543	-6.543	0	%100
21	M14	X	-.254	-.254	0	%100
22	M14	Z	-.439	-.439	0	%100
23	M15	X	-1.794	-1.794	0	%100
24	M15	Z	-3.107	-3.107	0	%100
25	M17	X	-1.794	-1.794	0	%100
26	M17	Z	-3.107	-3.107	0	%100
27	M19	X	-1.968	-1.968	0	%100
28	M19	Z	-3.409	-3.409	0	%100
29	M20	X	-1.794	-1.794	0	%100
30	M20	Z	-3.107	-3.107	0	%100
31	M21	X	-1.794	-1.794	0	%100
32	M21	Z	-3.107	-3.107	0	%100
33	M22	X	-2.734	-2.734	0	%100
34	M22	Z	-4.735	-4.735	0	%100
35	M23	X	-2.734	-2.734	0	%100
36	M23	Z	-4.735	-4.735	0	%100
37	M24	X	-3.106	-3.106	0	%100
38	M24	Z	-5.38	-5.38	0	%100
39	M25	X	-1.968	-1.968	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
40	M25	Z	-3.409	-3.409	0	%100
41	M26	X	-1.794	-1.794	0	%100
42	M26	Z	-3.107	-3.107	0	%100
43	M27	X	-2.777	-2.777	0	%100
44	M27	Z	-4.809	-4.809	0	%100
45	M28	X	-1.794	-1.794	0	%100
46	M28	Z	-3.107	-3.107	0	%100
47	M29	X	-2.777	-2.777	0	%100
48	M29	Z	-4.809	-4.809	0	%100
49	M30	X	-1.968	-1.968	0	%100
50	M30	Z	-3.409	-3.409	0	%100
51	M31	X	-1.794	-1.794	0	%100
52	M31	Z	-3.107	-3.107	0	%100
53	M32	X	-1.794	-1.794	0	%100
54	M32	Z	-3.107	-3.107	0	%100
55	M33	X	-2.734	-2.734	0	%100
56	M33	Z	-4.735	-4.735	0	%100
57	M34	X	-2.734	-2.734	0	%100
58	M34	Z	-4.735	-4.735	0	%100
59	M35	X	-3.106	-3.106	0	%100
60	M35	Z	-5.38	-5.38	0	%100
61	M36	X	-1.968	-1.968	0	%100
62	M36	Z	-3.409	-3.409	0	%100
63	MP5A	X	-4.07	-4.07	0	%100
64	MP5A	Z	-7.05	-7.05	0	%100
65	MP3A	X	-4.07	-4.07	0	%100
66	MP3A	Z	-7.05	-7.05	0	%100
67	MP1A	X	-4.07	-4.07	0	%100
68	MP1A	Z	-7.05	-7.05	0	%100
69	M52	X	-1.592	-1.592	0	%100
70	M52	Z	-2.758	-2.758	0	%100
71	M53	X	-1.955	-1.955	0	%100
72	M53	Z	-3.387	-3.387	0	%100
73	M54	X	-1.955	-1.955	0	%100
74	M54	Z	-3.387	-3.387	0	%100
75	MP4A	X	-4.07	-4.07	0	%100
76	MP4A	Z	-7.05	-7.05	0	%100
77	MP2A	X	-4.07	-4.07	0	%100
78	MP2A	Z	-7.05	-7.05	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	-3.122	-3.122	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	-.739	-.739	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-.739	-.739	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-3.649	-3.649	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.739	-.739	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-.739	-.739	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	-3.649	-3.649	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
15	M11	X	0	0	0	%100
16	M11	Z	-1.691	-1.691	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	-1.691	-1.691	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-1.691	-1.691	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-1.691	-1.691	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-1.52	-1.52	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-1.52	-1.52	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	-1.603	-1.603	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	-1.52	-1.52	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	-1.52	-1.52	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-2.589	-2.589	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-2.589	-2.589	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	-2.621	-2.621	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	-1.603	-1.603	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	-1.52	-1.52	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	-2.298	-2.298	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	-1.52	-1.52	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	-2.298	-2.298	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	-1.603	-1.603	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	-1.52	-1.52	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	-1.52	-1.52	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	-2.589	-2.589	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	-2.589	-2.589	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	-2.621	-2.621	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	-1.603	-1.603	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	-3.457	-3.457	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	-3.457	-3.457	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-3.457	-3.457	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-.084	-.084	0	%100
71	M53	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
72	M53	Z	-2.298	-2.298	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-2.298	-2.298	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	-3.457	-3.457	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-3.649	-3.649	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	1.171	1.171	0	%100
2	M3	Z	-2.028	-2.028	0	%100
3	M5	X	.047	.047	0	%100
4	M5	Z	-.081	-.081	0	%100
5	M6	X	.699	.699	0	%100
6	M6	Z	-1.211	-1.211	0	%100
7	M7	X	1.368	1.368	0	%100
8	M7	Z	-2.37	-2.37	0	%100
9	M8	X	.047	.047	0	%100
10	M8	Z	-.081	-.081	0	%100
11	M9	X	.699	.699	0	%100
12	M9	Z	-1.211	-1.211	0	%100
13	M10	X	1.368	1.368	0	%100
14	M10	Z	-2.37	-2.37	0	%100
15	M11	X	.107	.107	0	%100
16	M11	Z	-.186	-.186	0	%100
17	M12	X	1.6	1.6	0	%100
18	M12	Z	-2.772	-2.772	0	%100
19	M13	X	.107	.107	0	%100
20	M13	Z	-.186	-.186	0	%100
21	M14	X	1.6	1.6	0	%100
22	M14	Z	-2.772	-2.772	0	%100
23	M15	X	.96	.96	0	%100
24	M15	Z	-1.663	-1.663	0	%100
25	M17	X	.96	.96	0	%100
26	M17	Z	-1.663	-1.663	0	%100
27	M19	X	.991	.991	0	%100
28	M19	Z	-1.717	-1.717	0	%100
29	M20	X	.96	.96	0	%100
30	M20	Z	-1.663	-1.663	0	%100
31	M21	X	.96	.96	0	%100
32	M21	Z	-1.663	-1.663	0	%100
33	M22	X	1.295	1.295	0	%100
34	M22	Z	-2.243	-2.243	0	%100
35	M23	X	1.295	1.295	0	%100
36	M23	Z	-2.243	-2.243	0	%100
37	M24	X	1.31	1.31	0	%100
38	M24	Z	-2.27	-2.27	0	%100
39	M25	X	.991	.991	0	%100
40	M25	Z	-1.717	-1.717	0	%100
41	M26	X	.96	.96	0	%100
42	M26	Z	-1.663	-1.663	0	%100
43	M27	X	.951	.951	0	%100
44	M27	Z	-1.648	-1.648	0	%100
45	M28	X	.96	.96	0	%100
46	M28	Z	-1.663	-1.663	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
47	M29	X	.951	.951	0	%100
48	M29	Z	-1.648	-1.648	0	%100
49	M30	X	.991	.991	0	%100
50	M30	Z	-1.717	-1.717	0	%100
51	M31	X	.96	.96	0	%100
52	M31	Z	-1.663	-1.663	0	%100
53	M32	X	.96	.96	0	%100
54	M32	Z	-1.663	-1.663	0	%100
55	M33	X	1.295	1.295	0	%100
56	M33	Z	-2.243	-2.243	0	%100
57	M34	X	1.295	1.295	0	%100
58	M34	Z	-2.243	-2.243	0	%100
59	M35	X	1.31	1.31	0	%100
60	M35	Z	-2.27	-2.27	0	%100
61	M36	X	.991	.991	0	%100
62	M36	Z	-1.717	-1.717	0	%100
63	MP5A	X	1.728	1.728	0	%100
64	MP5A	Z	-2.994	-2.994	0	%100
65	MP3A	X	1.728	1.728	0	%100
66	MP3A	Z	-2.994	-2.994	0	%100
67	MP1A	X	1.728	1.728	0	%100
68	MP1A	Z	-2.994	-2.994	0	%100
69	M52	X	.24	.24	0	%100
70	M52	Z	-.416	-.416	0	%100
71	M53	X	1.351	1.351	0	%100
72	M53	Z	-2.34	-2.34	0	%100
73	M54	X	1.351	1.351	0	%100
74	M54	Z	-2.34	-2.34	0	%100
75	MP4A	X	1.728	1.728	0	%100
76	MP4A	Z	-2.994	-2.994	0	%100
77	MP2A	X	1.825	1.825	0	%100
78	MP2A	Z	-3.16	-3.16	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	.676	.676	0	%100
2	M3	Z	-.39	-.39	0	%100
3	M5	X	.094	.094	0	%100
4	M5	Z	-.054	-.054	0	%100
5	M6	X	1.224	1.224	0	%100
6	M6	Z	-.706	-.706	0	%100
7	M7	X	.79	.79	0	%100
8	M7	Z	-.456	-.456	0	%100
9	M8	X	.094	.094	0	%100
10	M8	Z	-.054	-.054	0	%100
11	M9	X	1.224	1.224	0	%100
12	M9	Z	-.706	-.706	0	%100
13	M10	X	.79	.79	0	%100
14	M10	Z	-.456	-.456	0	%100
15	M11	X	.214	.214	0	%100
16	M11	Z	-.124	-.124	0	%100
17	M12	X	2.8	2.8	0	%100
18	M12	Z	-1.617	-1.617	0	%100
19	M13	X	.214	.214	0	%100
20	M13	Z	-.124	-.124	0	%100
21	M14	X	2.8	2.8	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M14	Z	-1.617	-1.617	0	%100
23	M15	X	2.357	2.357	0	%100
24	M15	Z	-1.361	-1.361	0	%100
25	M17	X	2.357	2.357	0	%100
26	M17	Z	-1.361	-1.361	0	%100
27	M19	X	2.375	2.375	0	%100
28	M19	Z	-1.371	-1.371	0	%100
29	M20	X	2.357	2.357	0	%100
30	M20	Z	-1.361	-1.361	0	%100
31	M21	X	2.357	2.357	0	%100
32	M21	Z	-1.361	-1.361	0	%100
33	M22	X	2.243	2.243	0	%100
34	M22	Z	-1.295	-1.295	0	%100
35	M23	X	2.243	2.243	0	%100
36	M23	Z	-1.295	-1.295	0	%100
37	M24	X	2.27	2.27	0	%100
38	M24	Z	-1.31	-1.31	0	%100
39	M25	X	2.375	2.375	0	%100
40	M25	Z	-1.371	-1.371	0	%100
41	M26	X	2.357	2.357	0	%100
42	M26	Z	-1.361	-1.361	0	%100
43	M27	X	1.656	1.656	0	%100
44	M27	Z	-.956	-.956	0	%100
45	M28	X	2.357	2.357	0	%100
46	M28	Z	-1.361	-1.361	0	%100
47	M29	X	1.656	1.656	0	%100
48	M29	Z	-.956	-.956	0	%100
49	M30	X	2.375	2.375	0	%100
50	M30	Z	-1.371	-1.371	0	%100
51	M31	X	2.357	2.357	0	%100
52	M31	Z	-1.361	-1.361	0	%100
53	M32	X	2.357	2.357	0	%100
54	M32	Z	-1.361	-1.361	0	%100
55	M33	X	2.243	2.243	0	%100
56	M33	Z	-1.295	-1.295	0	%100
57	M34	X	2.243	2.243	0	%100
58	M34	Z	-1.295	-1.295	0	%100
59	M35	X	2.27	2.27	0	%100
60	M35	Z	-1.31	-1.31	0	%100
61	M36	X	2.375	2.375	0	%100
62	M36	Z	-1.371	-1.371	0	%100
63	MP5A	X	2.994	2.994	0	%100
64	MP5A	Z	-1.728	-1.728	0	%100
65	MP3A	X	2.994	2.994	0	%100
66	MP3A	Z	-1.728	-1.728	0	%100
67	MP1A	X	2.994	2.994	0	%100
68	MP1A	Z	-1.728	-1.728	0	%100
69	M52	X	1.924	1.924	0	%100
70	M52	Z	-1.111	-1.111	0	%100
71	M53	X	2.348	2.348	0	%100
72	M53	Z	-1.356	-1.356	0	%100
73	M54	X	2.348	2.348	0	%100
74	M54	Z	-1.356	-1.356	0	%100
75	MP4A	X	2.994	2.994	0	%100
76	MP4A	Z	-1.728	-1.728	0	%100
77	MP2A	X	3.16	3.16	0	%100
78	MP2A	Z	-1.825	-1.825	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	.768	.768	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	.768	.768	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	.768	.768	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	.768	.768	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	1.757	1.757	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	1.757	1.757	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	1.757	1.757	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	1.757	1.757	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	3.122	3.122	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	3.122	3.122	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	3.122	3.122	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	3.122	3.122	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	3.122	3.122	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	2.589	2.589	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	2.589	2.589	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	2.621	2.621	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	3.122	3.122	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	3.122	3.122	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	2.316	2.316	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	3.122	3.122	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	2.316	2.316	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	3.122	3.122	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	3.122	3.122	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	3.122	3.122	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	2.589	2.589	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	2.589	2.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M34	Z	0	0	0	%100
59	M35	X	2.621	2.621	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	3.122	3.122	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	3.457	3.457	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	3.457	3.457	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	3.457	3.457	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	3.565	3.565	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	2.316	2.316	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	2.316	2.316	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	3.457	3.457	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	3.649	3.649	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	.676	.676	0	%100
2	M3	Z	.39	.39	0	%100
3	M5	X	1.224	1.224	0	%100
4	M5	Z	.706	.706	0	%100
5	M6	X	.094	.094	0	%100
6	M6	Z	.054	.054	0	%100
7	M7	X	.79	.79	0	%100
8	M7	Z	.456	.456	0	%100
9	M8	X	1.224	1.224	0	%100
10	M8	Z	.706	.706	0	%100
11	M9	X	.094	.094	0	%100
12	M9	Z	.054	.054	0	%100
13	M10	X	.79	.79	0	%100
14	M10	Z	.456	.456	0	%100
15	M11	X	2.8	2.8	0	%100
16	M11	Z	1.617	1.617	0	%100
17	M12	X	.214	.214	0	%100
18	M12	Z	.124	.124	0	%100
19	M13	X	2.8	2.8	0	%100
20	M13	Z	1.617	1.617	0	%100
21	M14	X	.214	.214	0	%100
22	M14	Z	.124	.124	0	%100
23	M15	X	2.357	2.357	0	%100
24	M15	Z	1.361	1.361	0	%100
25	M17	X	2.357	2.357	0	%100
26	M17	Z	1.361	1.361	0	%100
27	M19	X	2.375	2.375	0	%100
28	M19	Z	1.371	1.371	0	%100
29	M20	X	2.357	2.357	0	%100
30	M20	Z	1.361	1.361	0	%100
31	M21	X	2.357	2.357	0	%100
32	M21	Z	1.361	1.361	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
33	M22	X	2.243	2.243	0	%100
34	M22	Z	1.295	1.295	0	%100
35	M23	X	2.243	2.243	0	%100
36	M23	Z	1.295	1.295	0	%100
37	M24	X	2.27	2.27	0	%100
38	M24	Z	1.31	1.31	0	%100
39	M25	X	2.375	2.375	0	%100
40	M25	Z	1.371	1.371	0	%100
41	M26	X	2.357	2.357	0	%100
42	M26	Z	1.361	1.361	0	%100
43	M27	X	2.348	2.348	0	%100
44	M27	Z	1.356	1.356	0	%100
45	M28	X	2.357	2.357	0	%100
46	M28	Z	1.361	1.361	0	%100
47	M29	X	2.348	2.348	0	%100
48	M29	Z	1.356	1.356	0	%100
49	M30	X	2.375	2.375	0	%100
50	M30	Z	1.371	1.371	0	%100
51	M31	X	2.357	2.357	0	%100
52	M31	Z	1.361	1.361	0	%100
53	M32	X	2.357	2.357	0	%100
54	M32	Z	1.361	1.361	0	%100
55	M33	X	2.243	2.243	0	%100
56	M33	Z	1.295	1.295	0	%100
57	M34	X	2.243	2.243	0	%100
58	M34	Z	1.295	1.295	0	%100
59	M35	X	2.27	2.27	0	%100
60	M35	Z	1.31	1.31	0	%100
61	M36	X	2.375	2.375	0	%100
62	M36	Z	1.371	1.371	0	%100
63	MP5A	X	2.994	2.994	0	%100
64	MP5A	Z	1.728	1.728	0	%100
65	MP3A	X	2.994	2.994	0	%100
66	MP3A	Z	1.728	1.728	0	%100
67	MP1A	X	2.994	2.994	0	%100
68	MP1A	Z	1.728	1.728	0	%100
69	M52	X	2.744	2.744	0	%100
70	M52	Z	1.584	1.584	0	%100
71	M53	X	1.656	1.656	0	%100
72	M53	Z	.956	.956	0	%100
73	M54	X	1.656	1.656	0	%100
74	M54	Z	.956	.956	0	%100
75	MP4A	X	2.994	2.994	0	%100
76	MP4A	Z	1.728	1.728	0	%100
77	MP2A	X	3.16	3.16	0	%100
78	MP2A	Z	1.825	1.825	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	1.171	1.171	0	%100
2	M3	Z	2.028	2.028	0	%100
3	M5	X	.699	.699	0	%100
4	M5	Z	1.211	1.211	0	%100
5	M6	X	.047	.047	0	%100
6	M6	Z	.081	.081	0	%100
7	M7	X	1.368	1.368	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
8	M7	Z	2.37	2.37	0	%100
9	M8	X	.699	.699	0	%100
10	M8	Z	1.211	1.211	0	%100
11	M9	X	.047	.047	0	%100
12	M9	Z	.081	.081	0	%100
13	M10	X	1.368	1.368	0	%100
14	M10	Z	2.37	2.37	0	%100
15	M11	X	1.6	1.6	0	%100
16	M11	Z	2.772	2.772	0	%100
17	M12	X	.107	.107	0	%100
18	M12	Z	.186	.186	0	%100
19	M13	X	1.6	1.6	0	%100
20	M13	Z	2.772	2.772	0	%100
21	M14	X	.107	.107	0	%100
22	M14	Z	.186	.186	0	%100
23	M15	X	.96	.96	0	%100
24	M15	Z	1.663	1.663	0	%100
25	M17	X	.96	.96	0	%100
26	M17	Z	1.663	1.663	0	%100
27	M19	X	.991	.991	0	%100
28	M19	Z	1.717	1.717	0	%100
29	M20	X	.96	.96	0	%100
30	M20	Z	1.663	1.663	0	%100
31	M21	X	.96	.96	0	%100
32	M21	Z	1.663	1.663	0	%100
33	M22	X	1.295	1.295	0	%100
34	M22	Z	2.243	2.243	0	%100
35	M23	X	1.295	1.295	0	%100
36	M23	Z	2.243	2.243	0	%100
37	M24	X	1.31	1.31	0	%100
38	M24	Z	2.27	2.27	0	%100
39	M25	X	.991	.991	0	%100
40	M25	Z	1.717	1.717	0	%100
41	M26	X	.96	.96	0	%100
42	M26	Z	1.663	1.663	0	%100
43	M27	X	1.351	1.351	0	%100
44	M27	Z	2.34	2.34	0	%100
45	M28	X	.96	.96	0	%100
46	M28	Z	1.663	1.663	0	%100
47	M29	X	1.351	1.351	0	%100
48	M29	Z	2.34	2.34	0	%100
49	M30	X	.991	.991	0	%100
50	M30	Z	1.717	1.717	0	%100
51	M31	X	.96	.96	0	%100
52	M31	Z	1.663	1.663	0	%100
53	M32	X	.96	.96	0	%100
54	M32	Z	1.663	1.663	0	%100
55	M33	X	1.295	1.295	0	%100
56	M33	Z	2.243	2.243	0	%100
57	M34	X	1.295	1.295	0	%100
58	M34	Z	2.243	2.243	0	%100
59	M35	X	1.31	1.31	0	%100
60	M35	Z	2.27	2.27	0	%100
61	M36	X	.991	.991	0	%100
62	M36	Z	1.717	1.717	0	%100
63	MP5A	X	1.728	1.728	0	%100
64	MP5A	Z	2.994	2.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	MP3A	X	1.728	1.728	0	%100
66	MP3A	Z	2.994	2.994	0	%100
67	MP1A	X	1.728	1.728	0	%100
68	MP1A	Z	2.994	2.994	0	%100
69	M52	X	.714	.714	0	%100
70	M52	Z	1.236	1.236	0	%100
71	M53	X	.951	.951	0	%100
72	M53	Z	1.648	1.648	0	%100
73	M54	X	.951	.951	0	%100
74	M54	Z	1.648	1.648	0	%100
75	MP4A	X	1.728	1.728	0	%100
76	MP4A	Z	2.994	2.994	0	%100
77	MP2A	X	1.825	1.825	0	%100
78	MP2A	Z	3.16	3.16	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	3.122	3.122	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	.739	.739	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.739	.739	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	3.649	3.649	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.739	.739	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.739	.739	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	3.649	3.649	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	1.691	1.691	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	1.691	1.691	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	1.691	1.691	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	1.691	1.691	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	1.52	1.52	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	1.52	1.52	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	1.603	1.603	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	1.52	1.52	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	1.52	1.52	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	2.589	2.589	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	2.589	2.589	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	2.621	2.621	0	%100
39	M25	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
40	M25	Z	1.603	1.603	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	1.52	1.52	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	2.298	2.298	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	1.52	1.52	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	2.298	2.298	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	1.603	1.603	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	1.52	1.52	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	1.52	1.52	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	2.589	2.589	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	2.589	2.589	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	2.621	2.621	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	1.603	1.603	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	3.457	3.457	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	3.457	3.457	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	3.457	3.457	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	.084	.084	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	2.298	2.298	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	2.298	2.298	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	3.457	3.457	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	3.649	3.649	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-1.171	-1.171	0	%100
2	M3	Z	2.028	2.028	0	%100
3	M5	X	-.047	-.047	0	%100
4	M5	Z	.081	.081	0	%100
5	M6	X	-.699	-.699	0	%100
6	M6	Z	1.211	1.211	0	%100
7	M7	X	-1.368	-1.368	0	%100
8	M7	Z	2.37	2.37	0	%100
9	M8	X	-.047	-.047	0	%100
10	M8	Z	.081	.081	0	%100
11	M9	X	-.699	-.699	0	%100
12	M9	Z	1.211	1.211	0	%100
13	M10	X	-1.368	-1.368	0	%100
14	M10	Z	2.37	2.37	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
15	M11	X	-.107	-.107	0	%100
16	M11	Z	.186	.186	0	%100
17	M12	X	-1.6	-1.6	0	%100
18	M12	Z	2.772	2.772	0	%100
19	M13	X	-.107	-.107	0	%100
20	M13	Z	.186	.186	0	%100
21	M14	X	-1.6	-1.6	0	%100
22	M14	Z	2.772	2.772	0	%100
23	M15	X	-.96	-.96	0	%100
24	M15	Z	1.663	1.663	0	%100
25	M17	X	-.96	-.96	0	%100
26	M17	Z	1.663	1.663	0	%100
27	M19	X	-.991	-.991	0	%100
28	M19	Z	1.717	1.717	0	%100
29	M20	X	-.96	-.96	0	%100
30	M20	Z	1.663	1.663	0	%100
31	M21	X	-.96	-.96	0	%100
32	M21	Z	1.663	1.663	0	%100
33	M22	X	-1.295	-1.295	0	%100
34	M22	Z	2.243	2.243	0	%100
35	M23	X	-1.295	-1.295	0	%100
36	M23	Z	2.243	2.243	0	%100
37	M24	X	-1.31	-1.31	0	%100
38	M24	Z	2.27	2.27	0	%100
39	M25	X	-.991	-.991	0	%100
40	M25	Z	1.717	1.717	0	%100
41	M26	X	-.96	-.96	0	%100
42	M26	Z	1.663	1.663	0	%100
43	M27	X	-.951	-.951	0	%100
44	M27	Z	1.648	1.648	0	%100
45	M28	X	-.96	-.96	0	%100
46	M28	Z	1.663	1.663	0	%100
47	M29	X	-.951	-.951	0	%100
48	M29	Z	1.648	1.648	0	%100
49	M30	X	-.991	-.991	0	%100
50	M30	Z	1.717	1.717	0	%100
51	M31	X	-.96	-.96	0	%100
52	M31	Z	1.663	1.663	0	%100
53	M32	X	-.96	-.96	0	%100
54	M32	Z	1.663	1.663	0	%100
55	M33	X	-1.295	-1.295	0	%100
56	M33	Z	2.243	2.243	0	%100
57	M34	X	-1.295	-1.295	0	%100
58	M34	Z	2.243	2.243	0	%100
59	M35	X	-1.31	-1.31	0	%100
60	M35	Z	2.27	2.27	0	%100
61	M36	X	-.991	-.991	0	%100
62	M36	Z	1.717	1.717	0	%100
63	MP5A	X	-1.728	-1.728	0	%100
64	MP5A	Z	2.994	2.994	0	%100
65	MP3A	X	-1.728	-1.728	0	%100
66	MP3A	Z	2.994	2.994	0	%100
67	MP1A	X	-1.728	-1.728	0	%100
68	MP1A	Z	2.994	2.994	0	%100
69	M52	X	-.24	-.24	0	%100
70	M52	Z	.416	.416	0	%100
71	M53	X	-1.351	-1.351	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
72	M53	Z	2.34	2.34	0	%100
73	M54	X	-1.351	-1.351	0	%100
74	M54	Z	2.34	2.34	0	%100
75	MP4A	X	-1.728	-1.728	0	%100
76	MP4A	Z	2.994	2.994	0	%100
77	MP2A	X	-1.825	-1.825	0	%100
78	MP2A	Z	3.16	3.16	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-.676	-.676	0	%100
2	M3	Z	.39	.39	0	%100
3	M5	X	-.094	-.094	0	%100
4	M5	Z	.054	.054	0	%100
5	M6	X	-1.224	-1.224	0	%100
6	M6	Z	.706	.706	0	%100
7	M7	X	-.79	-.79	0	%100
8	M7	Z	.456	.456	0	%100
9	M8	X	-.094	-.094	0	%100
10	M8	Z	.054	.054	0	%100
11	M9	X	-1.224	-1.224	0	%100
12	M9	Z	.706	.706	0	%100
13	M10	X	-.79	-.79	0	%100
14	M10	Z	.456	.456	0	%100
15	M11	X	-.214	-.214	0	%100
16	M11	Z	.124	.124	0	%100
17	M12	X	-2.8	-2.8	0	%100
18	M12	Z	1.617	1.617	0	%100
19	M13	X	-.214	-.214	0	%100
20	M13	Z	.124	.124	0	%100
21	M14	X	-2.8	-2.8	0	%100
22	M14	Z	1.617	1.617	0	%100
23	M15	X	-2.357	-2.357	0	%100
24	M15	Z	1.361	1.361	0	%100
25	M17	X	-2.357	-2.357	0	%100
26	M17	Z	1.361	1.361	0	%100
27	M19	X	-2.375	-2.375	0	%100
28	M19	Z	1.371	1.371	0	%100
29	M20	X	-2.357	-2.357	0	%100
30	M20	Z	1.361	1.361	0	%100
31	M21	X	-2.357	-2.357	0	%100
32	M21	Z	1.361	1.361	0	%100
33	M22	X	-2.243	-2.243	0	%100
34	M22	Z	1.295	1.295	0	%100
35	M23	X	-2.243	-2.243	0	%100
36	M23	Z	1.295	1.295	0	%100
37	M24	X	-2.27	-2.27	0	%100
38	M24	Z	1.31	1.31	0	%100
39	M25	X	-2.375	-2.375	0	%100
40	M25	Z	1.371	1.371	0	%100
41	M26	X	-2.357	-2.357	0	%100
42	M26	Z	1.361	1.361	0	%100
43	M27	X	-1.656	-1.656	0	%100
44	M27	Z	.956	.956	0	%100
45	M28	X	-2.357	-2.357	0	%100
46	M28	Z	1.361	1.361	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
47	M29	X	-1.656	-1.656	0	%100
48	M29	Z	.956	.956	0	%100
49	M30	X	-2.375	-2.375	0	%100
50	M30	Z	1.371	1.371	0	%100
51	M31	X	-2.357	-2.357	0	%100
52	M31	Z	1.361	1.361	0	%100
53	M32	X	-2.357	-2.357	0	%100
54	M32	Z	1.361	1.361	0	%100
55	M33	X	-2.243	-2.243	0	%100
56	M33	Z	1.295	1.295	0	%100
57	M34	X	-2.243	-2.243	0	%100
58	M34	Z	1.295	1.295	0	%100
59	M35	X	-2.27	-2.27	0	%100
60	M35	Z	1.31	1.31	0	%100
61	M36	X	-2.375	-2.375	0	%100
62	M36	Z	1.371	1.371	0	%100
63	MP5A	X	-2.994	-2.994	0	%100
64	MP5A	Z	1.728	1.728	0	%100
65	MP3A	X	-2.994	-2.994	0	%100
66	MP3A	Z	1.728	1.728	0	%100
67	MP1A	X	-2.994	-2.994	0	%100
68	MP1A	Z	1.728	1.728	0	%100
69	M52	X	-1.924	-1.924	0	%100
70	M52	Z	1.111	1.111	0	%100
71	M53	X	-2.348	-2.348	0	%100
72	M53	Z	1.356	1.356	0	%100
73	M54	X	-2.348	-2.348	0	%100
74	M54	Z	1.356	1.356	0	%100
75	MP4A	X	-2.994	-2.994	0	%100
76	MP4A	Z	1.728	1.728	0	%100
77	MP2A	X	-3.16	-3.16	0	%100
78	MP2A	Z	1.825	1.825	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	-.768	-.768	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	-.768	-.768	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	-.768	-.768	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-.768	-.768	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	-1.757	-1.757	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	-1.757	-1.757	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	-1.757	-1.757	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	-1.757	-1.757	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M14	Z	0	0	0	%100
23	M15	X	-3.122	-3.122	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	-3.122	-3.122	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	-3.122	-3.122	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	-3.122	-3.122	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	-3.122	-3.122	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	-2.589	-2.589	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-2.589	-2.589	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	-2.621	-2.621	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	-3.122	-3.122	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	-3.122	-3.122	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	-2.316	-2.316	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	-3.122	-3.122	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	-2.316	-2.316	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	-3.122	-3.122	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	-3.122	-3.122	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	-3.122	-3.122	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	-2.589	-2.589	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	-2.589	-2.589	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	-2.621	-2.621	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	-3.122	-3.122	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	-3.457	-3.457	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	-3.457	-3.457	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	-3.457	-3.457	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	-3.565	-3.565	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-2.316	-2.316	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-2.316	-2.316	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	-3.457	-3.457	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	-3.649	-3.649	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-.676	-.676	0	%100
2	M3	Z	-.39	-.39	0	%100
3	M5	X	-1.224	-1.224	0	%100
4	M5	Z	-.706	-.706	0	%100
5	M6	X	-.094	-.094	0	%100
6	M6	Z	-.054	-.054	0	%100
7	M7	X	-.79	-.79	0	%100
8	M7	Z	-.456	-.456	0	%100
9	M8	X	-1.224	-1.224	0	%100
10	M8	Z	-.706	-.706	0	%100
11	M9	X	-.094	-.094	0	%100
12	M9	Z	-.054	-.054	0	%100
13	M10	X	-.79	-.79	0	%100
14	M10	Z	-.456	-.456	0	%100
15	M11	X	-2.8	-2.8	0	%100
16	M11	Z	-1.617	-1.617	0	%100
17	M12	X	-.214	-.214	0	%100
18	M12	Z	-.124	-.124	0	%100
19	M13	X	-2.8	-2.8	0	%100
20	M13	Z	-1.617	-1.617	0	%100
21	M14	X	-.214	-.214	0	%100
22	M14	Z	-.124	-.124	0	%100
23	M15	X	-2.357	-2.357	0	%100
24	M15	Z	-1.361	-1.361	0	%100
25	M17	X	-2.357	-2.357	0	%100
26	M17	Z	-1.361	-1.361	0	%100
27	M19	X	-2.375	-2.375	0	%100
28	M19	Z	-1.371	-1.371	0	%100
29	M20	X	-2.357	-2.357	0	%100
30	M20	Z	-1.361	-1.361	0	%100
31	M21	X	-2.357	-2.357	0	%100
32	M21	Z	-1.361	-1.361	0	%100
33	M22	X	-2.243	-2.243	0	%100
34	M22	Z	-1.295	-1.295	0	%100
35	M23	X	-2.243	-2.243	0	%100
36	M23	Z	-1.295	-1.295	0	%100
37	M24	X	-2.27	-2.27	0	%100
38	M24	Z	-1.31	-1.31	0	%100
39	M25	X	-2.375	-2.375	0	%100
40	M25	Z	-1.371	-1.371	0	%100
41	M26	X	-2.357	-2.357	0	%100
42	M26	Z	-1.361	-1.361	0	%100
43	M27	X	-2.348	-2.348	0	%100
44	M27	Z	-1.356	-1.356	0	%100
45	M28	X	-2.357	-2.357	0	%100
46	M28	Z	-1.361	-1.361	0	%100
47	M29	X	-2.348	-2.348	0	%100
48	M29	Z	-1.356	-1.356	0	%100
49	M30	X	-2.375	-2.375	0	%100
50	M30	Z	-1.371	-1.371	0	%100
51	M31	X	-2.357	-2.357	0	%100
52	M31	Z	-1.361	-1.361	0	%100
53	M32	X	-2.357	-2.357	0	%100
54	M32	Z	-1.361	-1.361	0	%100
55	M33	X	-2.243	-2.243	0	%100
56	M33	Z	-1.295	-1.295	0	%100
57	M34	X	-2.243	-2.243	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M34	Z	-1.295	-1.295	0	%100
59	M35	X	-2.27	-2.27	0	%100
60	M35	Z	-1.31	-1.31	0	%100
61	M36	X	-2.375	-2.375	0	%100
62	M36	Z	-1.371	-1.371	0	%100
63	MP5A	X	-2.994	-2.994	0	%100
64	MP5A	Z	-1.728	-1.728	0	%100
65	MP3A	X	-2.994	-2.994	0	%100
66	MP3A	Z	-1.728	-1.728	0	%100
67	MP1A	X	-2.994	-2.994	0	%100
68	MP1A	Z	-1.728	-1.728	0	%100
69	M52	X	-2.744	-2.744	0	%100
70	M52	Z	-1.584	-1.584	0	%100
71	M53	X	-1.656	-1.656	0	%100
72	M53	Z	-.956	-.956	0	%100
73	M54	X	-1.656	-1.656	0	%100
74	M54	Z	-.956	-.956	0	%100
75	MP4A	X	-2.994	-2.994	0	%100
76	MP4A	Z	-1.728	-1.728	0	%100
77	MP2A	X	-3.16	-3.16	0	%100
78	MP2A	Z	-1.825	-1.825	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-1.171	-1.171	0	%100
2	M3	Z	-2.028	-2.028	0	%100
3	M5	X	-.699	-.699	0	%100
4	M5	Z	-1.211	-1.211	0	%100
5	M6	X	-.047	-.047	0	%100
6	M6	Z	-.081	-.081	0	%100
7	M7	X	-1.368	-1.368	0	%100
8	M7	Z	-2.37	-2.37	0	%100
9	M8	X	-.699	-.699	0	%100
10	M8	Z	-1.211	-1.211	0	%100
11	M9	X	-.047	-.047	0	%100
12	M9	Z	-.081	-.081	0	%100
13	M10	X	-1.368	-1.368	0	%100
14	M10	Z	-2.37	-2.37	0	%100
15	M11	X	-1.6	-1.6	0	%100
16	M11	Z	-2.772	-2.772	0	%100
17	M12	X	-.107	-.107	0	%100
18	M12	Z	-.186	-.186	0	%100
19	M13	X	-1.6	-1.6	0	%100
20	M13	Z	-2.772	-2.772	0	%100
21	M14	X	-.107	-.107	0	%100
22	M14	Z	-.186	-.186	0	%100
23	M15	X	-.96	-.96	0	%100
24	M15	Z	-1.663	-1.663	0	%100
25	M17	X	-.96	-.96	0	%100
26	M17	Z	-1.663	-1.663	0	%100
27	M19	X	-.991	-.991	0	%100
28	M19	Z	-1.717	-1.717	0	%100
29	M20	X	-.96	-.96	0	%100
30	M20	Z	-1.663	-1.663	0	%100
31	M21	X	-.96	-.96	0	%100
32	M21	Z	-1.663	-1.663	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
33	M22	X	-1.295	-1.295	0	%100
34	M22	Z	-2.243	-2.243	0	%100
35	M23	X	-1.295	-1.295	0	%100
36	M23	Z	-2.243	-2.243	0	%100
37	M24	X	-1.31	-1.31	0	%100
38	M24	Z	-2.27	-2.27	0	%100
39	M25	X	-.991	-.991	0	%100
40	M25	Z	-1.717	-1.717	0	%100
41	M26	X	-.96	-.96	0	%100
42	M26	Z	-1.663	-1.663	0	%100
43	M27	X	-1.351	-1.351	0	%100
44	M27	Z	-2.34	-2.34	0	%100
45	M28	X	-.96	-.96	0	%100
46	M28	Z	-1.663	-1.663	0	%100
47	M29	X	-1.351	-1.351	0	%100
48	M29	Z	-2.34	-2.34	0	%100
49	M30	X	-.991	-.991	0	%100
50	M30	Z	-1.717	-1.717	0	%100
51	M31	X	-.96	-.96	0	%100
52	M31	Z	-1.663	-1.663	0	%100
53	M32	X	-.96	-.96	0	%100
54	M32	Z	-1.663	-1.663	0	%100
55	M33	X	-1.295	-1.295	0	%100
56	M33	Z	-2.243	-2.243	0	%100
57	M34	X	-1.295	-1.295	0	%100
58	M34	Z	-2.243	-2.243	0	%100
59	M35	X	-1.31	-1.31	0	%100
60	M35	Z	-2.27	-2.27	0	%100
61	M36	X	-.991	-.991	0	%100
62	M36	Z	-1.717	-1.717	0	%100
63	MP5A	X	-1.728	-1.728	0	%100
64	MP5A	Z	-2.994	-2.994	0	%100
65	MP3A	X	-1.728	-1.728	0	%100
66	MP3A	Z	-2.994	-2.994	0	%100
67	MP1A	X	-1.728	-1.728	0	%100
68	MP1A	Z	-2.994	-2.994	0	%100
69	M52	X	-.714	-.714	0	%100
70	M52	Z	-1.236	-1.236	0	%100
71	M53	X	-.951	-.951	0	%100
72	M53	Z	-1.648	-1.648	0	%100
73	M54	X	-.951	-.951	0	%100
74	M54	Z	-1.648	-1.648	0	%100
75	MP4A	X	-1.728	-1.728	0	%100
76	MP4A	Z	-2.994	-2.994	0	%100
77	MP2A	X	-1.825	-1.825	0	%100
78	MP2A	Z	-3.16	-3.16	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	-.665	-.665	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	-.041	-.041	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-.041	-.041	0	%100
7	M7	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
8	M7	Z	-.526	-.526	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.041	-.041	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-.041	-.041	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	-.526	-.526	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	-.258	-.258	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	-.258	-.258	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-.258	-.258	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-.258	-.258	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-.088	-.088	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-.088	-.088	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	-.118	-.118	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	-.088	-.088	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	-.088	-.088	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-.353	-.353	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-.353	-.353	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	-.402	-.402	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	-.118	-.118	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	-.088	-.088	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	-.305	-.305	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	-.088	-.088	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	-.305	-.305	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	-.118	-.118	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	-.088	-.088	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	-.088	-.088	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	-.353	-.353	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	-.353	-.353	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	-.402	-.402	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	-.118	-.118	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	-.526	-.526	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	MP3A	X	0	0	0	%100
66	MP3A	Z	-.526	-.526	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-.526	-.526	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-.012	-.012	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-.305	-.305	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-.305	-.305	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	-.526	-.526	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-.526	-.526	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	.249	.249	0	%100
2	M3	Z	-.432	-.432	0	%100
3	M5	X	.003	.003	0	%100
4	M5	Z	-.004	-.004	0	%100
5	M6	X	.039	.039	0	%100
6	M6	Z	-.067	-.067	0	%100
7	M7	X	.197	.197	0	%100
8	M7	Z	-.342	-.342	0	%100
9	M8	X	.003	.003	0	%100
10	M8	Z	-.004	-.004	0	%100
11	M9	X	.039	.039	0	%100
12	M9	Z	-.067	-.067	0	%100
13	M10	X	.197	.197	0	%100
14	M10	Z	-.342	-.342	0	%100
15	M11	X	.016	.016	0	%100
16	M11	Z	-.028	-.028	0	%100
17	M12	X	.244	.244	0	%100
18	M12	Z	-.423	-.423	0	%100
19	M13	X	.016	.016	0	%100
20	M13	Z	-.028	-.028	0	%100
21	M14	X	.244	.244	0	%100
22	M14	Z	-.423	-.423	0	%100
23	M15	X	.116	.116	0	%100
24	M15	Z	-.201	-.201	0	%100
25	M17	X	.116	.116	0	%100
26	M17	Z	-.201	-.201	0	%100
27	M19	X	.127	.127	0	%100
28	M19	Z	-.22	-.22	0	%100
29	M20	X	.116	.116	0	%100
30	M20	Z	-.201	-.201	0	%100
31	M21	X	.116	.116	0	%100
32	M21	Z	-.201	-.201	0	%100
33	M22	X	.177	.177	0	%100
34	M22	Z	-.306	-.306	0	%100
35	M23	X	.177	.177	0	%100
36	M23	Z	-.306	-.306	0	%100
37	M24	X	.201	.201	0	%100
38	M24	Z	-.348	-.348	0	%100
39	M25	X	.127	.127	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
40	M25	Z	-.22	-.22	0	%100
41	M26	X	.116	.116	0	%100
42	M26	Z	-.201	-.201	0	%100
43	M27	X	.126	.126	0	%100
44	M27	Z	-.219	-.219	0	%100
45	M28	X	.116	.116	0	%100
46	M28	Z	-.201	-.201	0	%100
47	M29	X	.126	.126	0	%100
48	M29	Z	-.219	-.219	0	%100
49	M30	X	.127	.127	0	%100
50	M30	Z	-.22	-.22	0	%100
51	M31	X	.116	.116	0	%100
52	M31	Z	-.201	-.201	0	%100
53	M32	X	.116	.116	0	%100
54	M32	Z	-.201	-.201	0	%100
55	M33	X	.177	.177	0	%100
56	M33	Z	-.306	-.306	0	%100
57	M34	X	.177	.177	0	%100
58	M34	Z	-.306	-.306	0	%100
59	M35	X	.201	.201	0	%100
60	M35	Z	-.348	-.348	0	%100
61	M36	X	.127	.127	0	%100
62	M36	Z	-.22	-.22	0	%100
63	MP5A	X	.263	.263	0	%100
64	MP5A	Z	-.456	-.456	0	%100
65	MP3A	X	.263	.263	0	%100
66	MP3A	Z	-.456	-.456	0	%100
67	MP1A	X	.263	.263	0	%100
68	MP1A	Z	-.456	-.456	0	%100
69	M52	X	.035	.035	0	%100
70	M52	Z	-.06	-.06	0	%100
71	M53	X	.179	.179	0	%100
72	M53	Z	-.311	-.311	0	%100
73	M54	X	.179	.179	0	%100
74	M54	Z	-.311	-.311	0	%100
75	MP4A	X	.263	.263	0	%100
76	MP4A	Z	-.456	-.456	0	%100
77	MP2A	X	.263	.263	0	%100
78	MP2A	Z	-.456	-.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	.144	.144	0	%100
2	M3	Z	-.083	-.083	0	%100
3	M5	X	.005	.005	0	%100
4	M5	Z	-.003	-.003	0	%100
5	M6	X	.067	.067	0	%100
6	M6	Z	-.039	-.039	0	%100
7	M7	X	.114	.114	0	%100
8	M7	Z	-.066	-.066	0	%100
9	M8	X	.005	.005	0	%100
10	M8	Z	-.003	-.003	0	%100
11	M9	X	.067	.067	0	%100
12	M9	Z	-.039	-.039	0	%100
13	M10	X	.114	.114	0	%100
14	M10	Z	-.066	-.066	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
15	M11	X	.033	.033	0	%100
16	M11	Z	-.019	-.019	0	%100
17	M12	X	.427	.427	0	%100
18	M12	Z	-.247	-.247	0	%100
19	M13	X	.033	.033	0	%100
20	M13	Z	-.019	-.019	0	%100
21	M14	X	.427	.427	0	%100
22	M14	Z	-.247	-.247	0	%100
23	M15	X	.451	.451	0	%100
24	M15	Z	-.26	-.26	0	%100
25	M17	X	.451	.451	0	%100
26	M17	Z	-.26	-.26	0	%100
27	M19	X	.457	.457	0	%100
28	M19	Z	-.264	-.264	0	%100
29	M20	X	.451	.451	0	%100
30	M20	Z	-.26	-.26	0	%100
31	M21	X	.451	.451	0	%100
32	M21	Z	-.26	-.26	0	%100
33	M22	X	.306	.306	0	%100
34	M22	Z	-.177	-.177	0	%100
35	M23	X	.306	.306	0	%100
36	M23	Z	-.177	-.177	0	%100
37	M24	X	.348	.348	0	%100
38	M24	Z	-.201	-.201	0	%100
39	M25	X	.457	.457	0	%100
40	M25	Z	-.264	-.264	0	%100
41	M26	X	.451	.451	0	%100
42	M26	Z	-.26	-.26	0	%100
43	M27	X	.22	.22	0	%100
44	M27	Z	-.127	-.127	0	%100
45	M28	X	.451	.451	0	%100
46	M28	Z	-.26	-.26	0	%100
47	M29	X	.22	.22	0	%100
48	M29	Z	-.127	-.127	0	%100
49	M30	X	.457	.457	0	%100
50	M30	Z	-.264	-.264	0	%100
51	M31	X	.451	.451	0	%100
52	M31	Z	-.26	-.26	0	%100
53	M32	X	.451	.451	0	%100
54	M32	Z	-.26	-.26	0	%100
55	M33	X	.306	.306	0	%100
56	M33	Z	-.177	-.177	0	%100
57	M34	X	.306	.306	0	%100
58	M34	Z	-.177	-.177	0	%100
59	M35	X	.348	.348	0	%100
60	M35	Z	-.201	-.201	0	%100
61	M36	X	.457	.457	0	%100
62	M36	Z	-.264	-.264	0	%100
63	MP5A	X	.456	.456	0	%100
64	MP5A	Z	-.263	-.263	0	%100
65	MP3A	X	.456	.456	0	%100
66	MP3A	Z	-.263	-.263	0	%100
67	MP1A	X	.456	.456	0	%100
68	MP1A	Z	-.263	-.263	0	%100
69	M52	X	.277	.277	0	%100
70	M52	Z	-.16	-.16	0	%100
71	M53	X	.312	.312	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
72	M53	Z	-.18	-.18	0	%100
73	M54	X	.312	.312	0	%100
74	M54	Z	-.18	-.18	0	%100
75	MP4A	X	.456	.456	0	%100
76	MP4A	Z	-.263	-.263	0	%100
77	MP2A	X	.456	.456	0	%100
78	MP2A	Z	-.263	-.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	.042	.042	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	.042	.042	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	.042	.042	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	.042	.042	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	.268	.268	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	.268	.268	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	.268	.268	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	.268	.268	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	.665	.665	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	.665	.665	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	.665	.665	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	.665	.665	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	.665	.665	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	.353	.353	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	.353	.353	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	.402	.402	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	.665	.665	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	.665	.665	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	.308	.308	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	.665	.665	0	%100
46	M28	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
47	M29	X	.308	.308	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	.665	.665	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	.665	.665	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	.665	.665	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	.353	.353	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	.353	.353	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	.402	.402	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	.665	.665	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	.526	.526	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	.526	.526	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	.526	.526	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	.514	.514	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	.308	.308	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	.308	.308	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	.526	.526	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	.526	.526	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	.144	.144	0	%100
2	M3	Z	.083	.083	0	%100
3	M5	X	.067	.067	0	%100
4	M5	Z	.039	.039	0	%100
5	M6	X	.005	.005	0	%100
6	M6	Z	.003	.003	0	%100
7	M7	X	.114	.114	0	%100
8	M7	Z	.066	.066	0	%100
9	M8	X	.067	.067	0	%100
10	M8	Z	.039	.039	0	%100
11	M9	X	.005	.005	0	%100
12	M9	Z	.003	.003	0	%100
13	M10	X	.114	.114	0	%100
14	M10	Z	.066	.066	0	%100
15	M11	X	.427	.427	0	%100
16	M11	Z	.247	.247	0	%100
17	M12	X	.033	.033	0	%100
18	M12	Z	.019	.019	0	%100
19	M13	X	.427	.427	0	%100
20	M13	Z	.247	.247	0	%100
21	M14	X	.033	.033	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M14	Z	.019	.019	0	%100
23	M15	X	.451	.451	0	%100
24	M15	Z	.26	.26	0	%100
25	M17	X	.451	.451	0	%100
26	M17	Z	.26	.26	0	%100
27	M19	X	.457	.457	0	%100
28	M19	Z	.264	.264	0	%100
29	M20	X	.451	.451	0	%100
30	M20	Z	.26	.26	0	%100
31	M21	X	.451	.451	0	%100
32	M21	Z	.26	.26	0	%100
33	M22	X	.306	.306	0	%100
34	M22	Z	.177	.177	0	%100
35	M23	X	.306	.306	0	%100
36	M23	Z	.177	.177	0	%100
37	M24	X	.348	.348	0	%100
38	M24	Z	.201	.201	0	%100
39	M25	X	.457	.457	0	%100
40	M25	Z	.264	.264	0	%100
41	M26	X	.451	.451	0	%100
42	M26	Z	.26	.26	0	%100
43	M27	X	.312	.312	0	%100
44	M27	Z	.18	.18	0	%100
45	M28	X	.451	.451	0	%100
46	M28	Z	.26	.26	0	%100
47	M29	X	.312	.312	0	%100
48	M29	Z	.18	.18	0	%100
49	M30	X	.457	.457	0	%100
50	M30	Z	.264	.264	0	%100
51	M31	X	.451	.451	0	%100
52	M31	Z	.26	.26	0	%100
53	M32	X	.451	.451	0	%100
54	M32	Z	.26	.26	0	%100
55	M33	X	.306	.306	0	%100
56	M33	Z	.177	.177	0	%100
57	M34	X	.306	.306	0	%100
58	M34	Z	.177	.177	0	%100
59	M35	X	.348	.348	0	%100
60	M35	Z	.201	.201	0	%100
61	M36	X	.457	.457	0	%100
62	M36	Z	.264	.264	0	%100
63	MP5A	X	.456	.456	0	%100
64	MP5A	Z	.263	.263	0	%100
65	MP3A	X	.456	.456	0	%100
66	MP3A	Z	.263	.263	0	%100
67	MP1A	X	.456	.456	0	%100
68	MP1A	Z	.263	.263	0	%100
69	M52	X	.396	.396	0	%100
70	M52	Z	.228	.228	0	%100
71	M53	X	.22	.22	0	%100
72	M53	Z	.127	.127	0	%100
73	M54	X	.22	.22	0	%100
74	M54	Z	.127	.127	0	%100
75	MP4A	X	.456	.456	0	%100
76	MP4A	Z	.263	.263	0	%100
77	MP2A	X	.456	.456	0	%100
78	MP2A	Z	.263	.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	.249	.249	0	%100
2	M3	Z	.432	.432	0	%100
3	M5	X	.039	.039	0	%100
4	M5	Z	.067	.067	0	%100
5	M6	X	.003	.003	0	%100
6	M6	Z	.004	.004	0	%100
7	M7	X	.197	.197	0	%100
8	M7	Z	.342	.342	0	%100
9	M8	X	.039	.039	0	%100
10	M8	Z	.067	.067	0	%100
11	M9	X	.003	.003	0	%100
12	M9	Z	.004	.004	0	%100
13	M10	X	.197	.197	0	%100
14	M10	Z	.342	.342	0	%100
15	M11	X	.244	.244	0	%100
16	M11	Z	.423	.423	0	%100
17	M12	X	.016	.016	0	%100
18	M12	Z	.028	.028	0	%100
19	M13	X	.244	.244	0	%100
20	M13	Z	.423	.423	0	%100
21	M14	X	.016	.016	0	%100
22	M14	Z	.028	.028	0	%100
23	M15	X	.116	.116	0	%100
24	M15	Z	.201	.201	0	%100
25	M17	X	.116	.116	0	%100
26	M17	Z	.201	.201	0	%100
27	M19	X	.127	.127	0	%100
28	M19	Z	.22	.22	0	%100
29	M20	X	.116	.116	0	%100
30	M20	Z	.201	.201	0	%100
31	M21	X	.116	.116	0	%100
32	M21	Z	.201	.201	0	%100
33	M22	X	.177	.177	0	%100
34	M22	Z	.306	.306	0	%100
35	M23	X	.177	.177	0	%100
36	M23	Z	.306	.306	0	%100
37	M24	X	.201	.201	0	%100
38	M24	Z	.348	.348	0	%100
39	M25	X	.127	.127	0	%100
40	M25	Z	.22	.22	0	%100
41	M26	X	.116	.116	0	%100
42	M26	Z	.201	.201	0	%100
43	M27	X	.179	.179	0	%100
44	M27	Z	.311	.311	0	%100
45	M28	X	.116	.116	0	%100
46	M28	Z	.201	.201	0	%100
47	M29	X	.179	.179	0	%100
48	M29	Z	.311	.311	0	%100
49	M30	X	.127	.127	0	%100
50	M30	Z	.22	.22	0	%100
51	M31	X	.116	.116	0	%100
52	M31	Z	.201	.201	0	%100
53	M32	X	.116	.116	0	%100
54	M32	Z	.201	.201	0	%100
55	M33	X	.177	.177	0	%100
56	M33	Z	.306	.306	0	%100
57	M34	X	.177	.177	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
58	M34	Z	.306	.306	0	%100
59	M35	X	.201	.201	0	%100
60	M35	Z	.348	.348	0	%100
61	M36	X	.127	.127	0	%100
62	M36	Z	.22	.22	0	%100
63	MP5A	X	.263	.263	0	%100
64	MP5A	Z	.456	.456	0	%100
65	MP3A	X	.263	.263	0	%100
66	MP3A	Z	.456	.456	0	%100
67	MP1A	X	.263	.263	0	%100
68	MP1A	Z	.456	.456	0	%100
69	M52	X	.103	.103	0	%100
70	M52	Z	.178	.178	0	%100
71	M53	X	.126	.126	0	%100
72	M53	Z	.219	.219	0	%100
73	M54	X	.126	.126	0	%100
74	M54	Z	.219	.219	0	%100
75	MP4A	X	.263	.263	0	%100
76	MP4A	Z	.456	.456	0	%100
77	MP2A	X	.263	.263	0	%100
78	MP2A	Z	.456	.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	.665	.665	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	.041	.041	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.041	.041	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	.526	.526	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.041	.041	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.041	.041	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	.526	.526	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	.258	.258	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	.258	.258	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	.258	.258	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	.258	.258	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	.088	.088	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	.088	.088	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	.118	.118	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	.088	.088	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	.088	.088	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
33	M22	X	0	0	0	%100
34	M22	Z	.353	.353	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	.353	.353	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	.402	.402	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	.118	.118	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	.088	.088	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	.305	.305	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	.088	.088	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	.305	.305	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	.118	.118	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	.088	.088	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	.088	.088	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	.353	.353	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	.353	.353	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	.402	.402	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	.118	.118	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	.526	.526	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	.526	.526	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	.526	.526	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	.012	.012	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	.305	.305	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	.305	.305	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	.526	.526	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	.526	.526	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-.249	-.249	0	%100
2	M3	Z	.432	.432	0	%100
3	M5	X	-.003	-.003	0	%100
4	M5	Z	.004	.004	0	%100
5	M6	X	-.039	-.039	0	%100
6	M6	Z	.067	.067	0	%100
7	M7	X	-.197	-.197	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
8	M7	Z	.342	.342	0	%100
9	M8	X	-.003	-.003	0	%100
10	M8	Z	.004	.004	0	%100
11	M9	X	-.039	-.039	0	%100
12	M9	Z	.067	.067	0	%100
13	M10	X	-.197	-.197	0	%100
14	M10	Z	.342	.342	0	%100
15	M11	X	-.016	-.016	0	%100
16	M11	Z	.028	.028	0	%100
17	M12	X	-.244	-.244	0	%100
18	M12	Z	.423	.423	0	%100
19	M13	X	-.016	-.016	0	%100
20	M13	Z	.028	.028	0	%100
21	M14	X	-.244	-.244	0	%100
22	M14	Z	.423	.423	0	%100
23	M15	X	-.116	-.116	0	%100
24	M15	Z	.201	.201	0	%100
25	M17	X	-.116	-.116	0	%100
26	M17	Z	.201	.201	0	%100
27	M19	X	-.127	-.127	0	%100
28	M19	Z	.22	.22	0	%100
29	M20	X	-.116	-.116	0	%100
30	M20	Z	.201	.201	0	%100
31	M21	X	-.116	-.116	0	%100
32	M21	Z	.201	.201	0	%100
33	M22	X	-.177	-.177	0	%100
34	M22	Z	.306	.306	0	%100
35	M23	X	-.177	-.177	0	%100
36	M23	Z	.306	.306	0	%100
37	M24	X	-.201	-.201	0	%100
38	M24	Z	.348	.348	0	%100
39	M25	X	-.127	-.127	0	%100
40	M25	Z	.22	.22	0	%100
41	M26	X	-.116	-.116	0	%100
42	M26	Z	.201	.201	0	%100
43	M27	X	-.126	-.126	0	%100
44	M27	Z	.219	.219	0	%100
45	M28	X	-.116	-.116	0	%100
46	M28	Z	.201	.201	0	%100
47	M29	X	-.126	-.126	0	%100
48	M29	Z	.219	.219	0	%100
49	M30	X	-.127	-.127	0	%100
50	M30	Z	.22	.22	0	%100
51	M31	X	-.116	-.116	0	%100
52	M31	Z	.201	.201	0	%100
53	M32	X	-.116	-.116	0	%100
54	M32	Z	.201	.201	0	%100
55	M33	X	-.177	-.177	0	%100
56	M33	Z	.306	.306	0	%100
57	M34	X	-.177	-.177	0	%100
58	M34	Z	.306	.306	0	%100
59	M35	X	-.201	-.201	0	%100
60	M35	Z	.348	.348	0	%100
61	M36	X	-.127	-.127	0	%100
62	M36	Z	.22	.22	0	%100
63	MP5A	X	-.263	-.263	0	%100
64	MP5A	Z	.456	.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
65	MP3A	X	-.263	-.263	0	%100
66	MP3A	Z	.456	.456	0	%100
67	MP1A	X	-.263	-.263	0	%100
68	MP1A	Z	.456	.456	0	%100
69	M52	X	-.035	-.035	0	%100
70	M52	Z	.06	.06	0	%100
71	M53	X	-.179	-.179	0	%100
72	M53	Z	.311	.311	0	%100
73	M54	X	-.179	-.179	0	%100
74	M54	Z	.311	.311	0	%100
75	MP4A	X	-.263	-.263	0	%100
76	MP4A	Z	.456	.456	0	%100
77	MP2A	X	-.263	-.263	0	%100
78	MP2A	Z	.456	.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-.144	-.144	0	%100
2	M3	Z	.083	.083	0	%100
3	M5	X	-.005	-.005	0	%100
4	M5	Z	.003	.003	0	%100
5	M6	X	-.067	-.067	0	%100
6	M6	Z	.039	.039	0	%100
7	M7	X	-.114	-.114	0	%100
8	M7	Z	.066	.066	0	%100
9	M8	X	-.005	-.005	0	%100
10	M8	Z	.003	.003	0	%100
11	M9	X	-.067	-.067	0	%100
12	M9	Z	.039	.039	0	%100
13	M10	X	-.114	-.114	0	%100
14	M10	Z	.066	.066	0	%100
15	M11	X	-.033	-.033	0	%100
16	M11	Z	.019	.019	0	%100
17	M12	X	-.427	-.427	0	%100
18	M12	Z	.247	.247	0	%100
19	M13	X	-.033	-.033	0	%100
20	M13	Z	.019	.019	0	%100
21	M14	X	-.427	-.427	0	%100
22	M14	Z	.247	.247	0	%100
23	M15	X	-.451	-.451	0	%100
24	M15	Z	.26	.26	0	%100
25	M17	X	-.451	-.451	0	%100
26	M17	Z	.26	.26	0	%100
27	M19	X	-.457	-.457	0	%100
28	M19	Z	.264	.264	0	%100
29	M20	X	-.451	-.451	0	%100
30	M20	Z	.26	.26	0	%100
31	M21	X	-.451	-.451	0	%100
32	M21	Z	.26	.26	0	%100
33	M22	X	-.306	-.306	0	%100
34	M22	Z	.177	.177	0	%100
35	M23	X	-.306	-.306	0	%100
36	M23	Z	.177	.177	0	%100
37	M24	X	-.348	-.348	0	%100
38	M24	Z	.201	.201	0	%100
39	M25	X	-.457	-.457	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
40	M25	Z	.264	.264	0	%100
41	M26	X	-.451	-.451	0	%100
42	M26	Z	.26	.26	0	%100
43	M27	X	-.22	-.22	0	%100
44	M27	Z	.127	.127	0	%100
45	M28	X	-.451	-.451	0	%100
46	M28	Z	.26	.26	0	%100
47	M29	X	-.22	-.22	0	%100
48	M29	Z	.127	.127	0	%100
49	M30	X	-.457	-.457	0	%100
50	M30	Z	.264	.264	0	%100
51	M31	X	-.451	-.451	0	%100
52	M31	Z	.26	.26	0	%100
53	M32	X	-.451	-.451	0	%100
54	M32	Z	.26	.26	0	%100
55	M33	X	-.306	-.306	0	%100
56	M33	Z	.177	.177	0	%100
57	M34	X	-.306	-.306	0	%100
58	M34	Z	.177	.177	0	%100
59	M35	X	-.348	-.348	0	%100
60	M35	Z	.201	.201	0	%100
61	M36	X	-.457	-.457	0	%100
62	M36	Z	.264	.264	0	%100
63	MP5A	X	-.456	-.456	0	%100
64	MP5A	Z	.263	.263	0	%100
65	MP3A	X	-.456	-.456	0	%100
66	MP3A	Z	.263	.263	0	%100
67	MP1A	X	-.456	-.456	0	%100
68	MP1A	Z	.263	.263	0	%100
69	M52	X	-.277	-.277	0	%100
70	M52	Z	.16	.16	0	%100
71	M53	X	-.312	-.312	0	%100
72	M53	Z	.18	.18	0	%100
73	M54	X	-.312	-.312	0	%100
74	M54	Z	.18	.18	0	%100
75	MP4A	X	-.456	-.456	0	%100
76	MP4A	Z	.263	.263	0	%100
77	MP2A	X	-.456	-.456	0	%100
78	MP2A	Z	.263	.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	-.042	-.042	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	-.042	-.042	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	-.042	-.042	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-.042	-.042	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
15	M11	X	-.268	-.268	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	-.268	-.268	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	-.268	-.268	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	-.268	-.268	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	-.665	-.665	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	-.665	-.665	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	-.665	-.665	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	-.665	-.665	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	-.665	-.665	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	-.353	-.353	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-.353	-.353	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	-.402	-.402	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	-.665	-.665	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	-.665	-.665	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	-.308	-.308	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	-.665	-.665	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	-.308	-.308	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	-.665	-.665	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	-.665	-.665	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	-.665	-.665	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	-.353	-.353	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	-.353	-.353	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	-.402	-.402	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	-.665	-.665	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	-.526	-.526	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	-.526	-.526	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	-.526	-.526	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	-.514	-.514	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-.308	-.308	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
72	M53	Z	0	0	0	%100
73	M54	X	-.308	-.308	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	-.526	-.526	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	-.526	-.526	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-.144	-.144	0	%100
2	M3	Z	-.083	-.083	0	%100
3	M5	X	-.067	-.067	0	%100
4	M5	Z	-.039	-.039	0	%100
5	M6	X	-.005	-.005	0	%100
6	M6	Z	-.003	-.003	0	%100
7	M7	X	-.114	-.114	0	%100
8	M7	Z	-.066	-.066	0	%100
9	M8	X	-.067	-.067	0	%100
10	M8	Z	-.039	-.039	0	%100
11	M9	X	-.005	-.005	0	%100
12	M9	Z	-.003	-.003	0	%100
13	M10	X	-.114	-.114	0	%100
14	M10	Z	-.066	-.066	0	%100
15	M11	X	-.427	-.427	0	%100
16	M11	Z	-.247	-.247	0	%100
17	M12	X	-.033	-.033	0	%100
18	M12	Z	-.019	-.019	0	%100
19	M13	X	-.427	-.427	0	%100
20	M13	Z	-.247	-.247	0	%100
21	M14	X	-.033	-.033	0	%100
22	M14	Z	-.019	-.019	0	%100
23	M15	X	-.451	-.451	0	%100
24	M15	Z	-.26	-.26	0	%100
25	M17	X	-.451	-.451	0	%100
26	M17	Z	-.26	-.26	0	%100
27	M19	X	-.457	-.457	0	%100
28	M19	Z	-.264	-.264	0	%100
29	M20	X	-.451	-.451	0	%100
30	M20	Z	-.26	-.26	0	%100
31	M21	X	-.451	-.451	0	%100
32	M21	Z	-.26	-.26	0	%100
33	M22	X	-.306	-.306	0	%100
34	M22	Z	-.177	-.177	0	%100
35	M23	X	-.306	-.306	0	%100
36	M23	Z	-.177	-.177	0	%100
37	M24	X	-.348	-.348	0	%100
38	M24	Z	-.201	-.201	0	%100
39	M25	X	-.457	-.457	0	%100
40	M25	Z	-.264	-.264	0	%100
41	M26	X	-.451	-.451	0	%100
42	M26	Z	-.26	-.26	0	%100
43	M27	X	-.312	-.312	0	%100
44	M27	Z	-.18	-.18	0	%100
45	M28	X	-.451	-.451	0	%100
46	M28	Z	-.26	-.26	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
47	M29	X	-.312	-.312	0	%100
48	M29	Z	-.18	-.18	0	%100
49	M30	X	-.457	-.457	0	%100
50	M30	Z	-.264	-.264	0	%100
51	M31	X	-.451	-.451	0	%100
52	M31	Z	-.26	-.26	0	%100
53	M32	X	-.451	-.451	0	%100
54	M32	Z	-.26	-.26	0	%100
55	M33	X	-.306	-.306	0	%100
56	M33	Z	-.177	-.177	0	%100
57	M34	X	-.306	-.306	0	%100
58	M34	Z	-.177	-.177	0	%100
59	M35	X	-.348	-.348	0	%100
60	M35	Z	-.201	-.201	0	%100
61	M36	X	-.457	-.457	0	%100
62	M36	Z	-.264	-.264	0	%100
63	MP5A	X	-.456	-.456	0	%100
64	MP5A	Z	-.263	-.263	0	%100
65	MP3A	X	-.456	-.456	0	%100
66	MP3A	Z	-.263	-.263	0	%100
67	MP1A	X	-.456	-.456	0	%100
68	MP1A	Z	-.263	-.263	0	%100
69	M52	X	-.396	-.396	0	%100
70	M52	Z	-.228	-.228	0	%100
71	M53	X	-.22	-.22	0	%100
72	M53	Z	-.127	-.127	0	%100
73	M54	X	-.22	-.22	0	%100
74	M54	Z	-.127	-.127	0	%100
75	MP4A	X	-.456	-.456	0	%100
76	MP4A	Z	-.263	-.263	0	%100
77	MP2A	X	-.456	-.456	0	%100
78	MP2A	Z	-.263	-.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
1	M3	X	-.249	-.249	0	%100
2	M3	Z	-.432	-.432	0	%100
3	M5	X	-.039	-.039	0	%100
4	M5	Z	-.067	-.067	0	%100
5	M6	X	-.003	-.003	0	%100
6	M6	Z	-.004	-.004	0	%100
7	M7	X	-.197	-.197	0	%100
8	M7	Z	-.342	-.342	0	%100
9	M8	X	-.039	-.039	0	%100
10	M8	Z	-.067	-.067	0	%100
11	M9	X	-.003	-.003	0	%100
12	M9	Z	-.004	-.004	0	%100
13	M10	X	-.197	-.197	0	%100
14	M10	Z	-.342	-.342	0	%100
15	M11	X	-.244	-.244	0	%100
16	M11	Z	-.423	-.423	0	%100
17	M12	X	-.016	-.016	0	%100
18	M12	Z	-.028	-.028	0	%100
19	M13	X	-.244	-.244	0	%100
20	M13	Z	-.423	-.423	0	%100
21	M14	X	-.016	-.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[in,%]	End Location[in,%]
22	M14	Z	-.028	-.028	0	%100
23	M15	X	-.116	-.116	0	%100
24	M15	Z	-.201	-.201	0	%100
25	M17	X	-.116	-.116	0	%100
26	M17	Z	-.201	-.201	0	%100
27	M19	X	-.127	-.127	0	%100
28	M19	Z	-.22	-.22	0	%100
29	M20	X	-.116	-.116	0	%100
30	M20	Z	-.201	-.201	0	%100
31	M21	X	-.116	-.116	0	%100
32	M21	Z	-.201	-.201	0	%100
33	M22	X	-.177	-.177	0	%100
34	M22	Z	-.306	-.306	0	%100
35	M23	X	-.177	-.177	0	%100
36	M23	Z	-.306	-.306	0	%100
37	M24	X	-.201	-.201	0	%100
38	M24	Z	-.348	-.348	0	%100
39	M25	X	-.127	-.127	0	%100
40	M25	Z	-.22	-.22	0	%100
41	M26	X	-.116	-.116	0	%100
42	M26	Z	-.201	-.201	0	%100
43	M27	X	-.179	-.179	0	%100
44	M27	Z	-.311	-.311	0	%100
45	M28	X	-.116	-.116	0	%100
46	M28	Z	-.201	-.201	0	%100
47	M29	X	-.179	-.179	0	%100
48	M29	Z	-.311	-.311	0	%100
49	M30	X	-.127	-.127	0	%100
50	M30	Z	-.22	-.22	0	%100
51	M31	X	-.116	-.116	0	%100
52	M31	Z	-.201	-.201	0	%100
53	M32	X	-.116	-.116	0	%100
54	M32	Z	-.201	-.201	0	%100
55	M33	X	-.177	-.177	0	%100
56	M33	Z	-.306	-.306	0	%100
57	M34	X	-.177	-.177	0	%100
58	M34	Z	-.306	-.306	0	%100
59	M35	X	-.201	-.201	0	%100
60	M35	Z	-.348	-.348	0	%100
61	M36	X	-.127	-.127	0	%100
62	M36	Z	-.22	-.22	0	%100
63	MP5A	X	-.263	-.263	0	%100
64	MP5A	Z	-.456	-.456	0	%100
65	MP3A	X	-.263	-.263	0	%100
66	MP3A	Z	-.456	-.456	0	%100
67	MP1A	X	-.263	-.263	0	%100
68	MP1A	Z	-.456	-.456	0	%100
69	M52	X	-.103	-.103	0	%100
70	M52	Z	-.178	-.178	0	%100
71	M53	X	-.126	-.126	0	%100
72	M53	Z	-.219	-.219	0	%100
73	M54	X	-.126	-.126	0	%100
74	M54	Z	-.219	-.219	0	%100
75	MP4A	X	-.263	-.263	0	%100
76	MP4A	Z	-.456	-.456	0	%100
77	MP2A	X	-.263	-.263	0	%100
78	MP2A	Z	-.456	-.456	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
No Data to Print ...						

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	N4	max	941.799	10	1757.472	19	228.259	12	-.145	4	0	51	.006	4
2		min	-921.507	4	530.68	1	-4067.002	18	-.495	23	0	1	-.146	21
3	N65	max	765.105	46	1340.202	15	4073.417	24	-.11	12	0	51	.006	4
4		min	-841.193	49	413.193	11	-167.179	5	-.395	18	0	1	-.111	22
5	N80A	max	271.28	10	42.733	23	1555.047	4	0	51	0	51	0	51
6		min	-267.735	4	4.016	49	-1559.4	10	0	1	0	1	0	1
7	Totals:	max	1553.5	10	3136.13	22	1935.477	1						
8		min	-1553.504	4	960.727	3	-1935.481	7						

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

	Member	Shape	Code C...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M3	L4X3X6	.000	3.375	19	.000	3.375	z	24	111130.9...	112050	3.731	9.809	1....	H2-1
2	M5	PL3/8X3	.639	0	22	.092	0	z	15	34985.705	36450	.284	2.279	1....	H1-1b
3	M6	PL3/8X3	.730	0	17	.122	3	y	10	34985.705	36450	.284	2.279	1....	H1-1b
4	M7	PIPE_2.0	.330	94	7	.110	44		21	3842.421	45900	2.674	2.674	1....	H1-1b
5	M8	PL3/8X3	.543	0	21	.111	0	y	5	34985.705	36450	.284	2.279	1....	H1-1b
6	M9	PL3/8X3	.609	0	24	.083	0	y	49	34985.705	36450	.284	2.279	1....	H1-1b
7	M10	PIPE_2.0	.314	148	4	.115	148		41	3842.421	45900	2.674	2.674	1....	H1-1a
8	M11	PIPE_2.0	.214	5.937	21	.068	0		23	25094.071	45900	2.674	2.674	2....	H1-1b
9	M12	PIPE_2.0	.234	5.937	17	.083	64.57		4	25094.071	45900	2.674	2.674	2....	H1-1b
10	M13	PIPE_2.0	.208	6.68	23	.068	64.57		22	25094.071	45900	2.674	2.674	1....	H1-1b
11	M14	PIPE_2.0	.223	6.68	24	.164	64.57		10	25094.071	45900	2.674	2.674	1....	H1-1b
12	M15	PL3/8X3	.074	0	21	.048	0	y	4	36078.278	36450	.284	2.279	1....	H1-1b
13	M17	PL3/8X3	.086	0	17	.045	0	y	9	36078.278	36450	.284	2.279	1....	H1-1b
14	M19	PL3/8X3	.630	4	4	.058	0	y	4	33887.6	36450	.284	2.279	1....	H1-1b
15	M20	PL3/8X3	.068	1.5	16	.048	1.5	y	4	36078.278	36450	.284	2.279	1....	H1-1b
16	M21	PL3/8X3	.103	1.5	4	.045	1.5	y	9	36078.278	36450	.284	2.279	1....	H1-1b
17	M22	HSS1.500x.06	.098	35.5	15	.025	35.5		4	8896.364	12701.34	.485	.485	1....	H1-1b*
18	M23	HSS1.500x.06	.180	35.5	16	.024	35.5		9	8896.364	12701.34	.485	.485	1....	H1-1b*
19	M24	PIPE_2.0	.355	7.307	10	.084	6.99		4	41092.059	45900	2.674	2.674	1....	H1-1b
20	M25	PL3/8X3	.319	4	4	.039	4	y	22	33887.6	36450	.284	2.279	1....	H1-1b
21	M26	PL3/8X3	.032	0	29	.045	0	y	4	36078.278	36450	.284	2.279	1....	H1-1b
22	M27	HSS1.500x.06	.113	24.1	24	.014	0		11	6588.382	12701.34	.485	.485	1....	H1-1b
23	M28	PL3/8X3	.069	0	33	.035	0	y	10	36078.278	36450	.284	2.279	1....	H1-1b
24	M29	HSS1.500x.06	.085	24.1	13	.015	0		12	6588.382	12701.34	.485	.485	1....	H1-1b
25	M30	PL3/8X3	.095	0	33	.049	0	y	21	33887.6	36450	.284	2.279	1.6	H1-1b
26	M31	PL3/8X3	.028	1.5	27	.045	1.5	y	4	36078.278	36450	.284	2.279	1....	H1-1b
27	M32	PL3/8X3	.065	1.5	34	.035	1.5	y	10	36078.278	36450	.284	2.279	1....	H1-1b
28	M33	HSS1.500x.06	.092	35.5	22	.024	0		4	8896.364	12701.34	.485	.485	1....	H1-1b*
29	M34	HSS1.500x.06	.165	35.5	21	.020	35.5		10	8896.364	12701.34	.485	.485	1....	H1-1b*
30	M35	PIPE_2.0	.015	1.271	21	.006	0		22	41092.059	45900	2.674	2.674	1....	H1-1b*
31	M36	PL3/8X3	.100	4	33	.049	4	y	21	33887.6	36450	.284	2.279	1.6	H1-1b
32	MP5A	PIPE_2.0	.175	55.5	49	.038	15		10	20866.733	32130	1.872	1.872	1....	H1-1b
33	MP3A	PIPE_2.0	.214	55.5	10	.116	55.5		10	20866.733	32130	1.872	1.872	1....	H1-1b
34	MP1A	PIPE_2.0	.118	15	16	.038	15		10	20866.733	32130	1.872	1.872	1....	H1-1b
35	M52	PIPE_2.0	.101	92.829	4	.007	0		16	15678.62	32130	1.872	1.872	2....	H1-1b*
36	M53	HSS1.500x.06	.119	24.1	14	.024	48.2		10	6588.382	12701.34	.485	.485	1....	H1-1b
37	M54	HSS1.500x.06	.093	24.1	13	.015	48.2		7	6588.382	12701.34	.485	.485	1....	H1-1b
38	MP4A	PIPE_2.0	.147	56.25	49	.025	15.75		49	20866.733	32130	1.872	1.872	1.6	H1-1b

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

	Member	Shape	Code C...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
39	MP2A	PIPE_2.0	.234	80	28	.053	43		6	14916.096	32130	1.872	1.872	1....	H1-1b

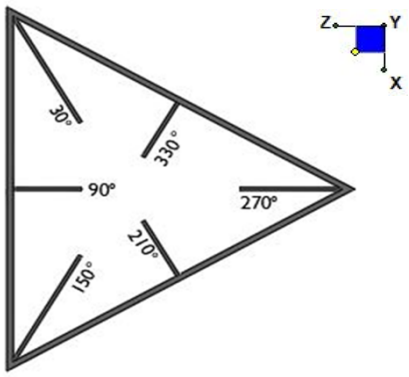
Client:	Verizon Wireless	Date:	8/30/2021
Site Name:	WESTFORD CT		
Project No.	21777346A		
Title:	Mount Analysis Report	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

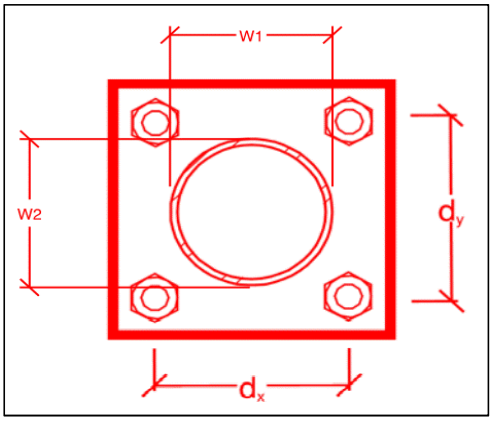
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N4	60
N65	60



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	2
d_x (in) *(Delta X of typ. bolt config. sketch)* :	3
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	2
Bolt Type:	U-Bolt
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	9.4
Required Shear Strength (kips):	3.9
Tensile Strength / bolt (kips):	16.3
Shear Strength / bolt (kips):	9.8
Tensile Capacity Overall:	**28.8%***
Shear Capacity Overall:	**20.1%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to ***https://pmi.vzwsmart.com*** as depicted on the drawings

Photo Requirements:

- *Base and "During Installation Photos"*
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - "During Installation Photos if provided - must be placed only in this folder
- *Photos taken at ground level*
  - Overall tower structure before and after installation of the equipment modifications
  - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
  - Photos showing each individual sector before and also after installation of equipment.
    - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.

Antenna & equipment placement and Geometry Confirmation:

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

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

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

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor shall install a new 96” long mount pipe between existing positions 1 & 2 (considered left to right from behind) of each sector. The new mount pipe shall be located 48” from position 1. The top of the mount pipe shall be 39” above the upper face horizontal pipe. The pipe shall be connected to both the face horizontals with new crossover plates (VZWSmart-MSK1). The existing XXDWMM-12.5-65-8T antenna and supporting RRH shall be connected to the new mount pipe, beneath the proposed MT6407-77A. Refer to Placement Diagrams included in the PMI section of this report.

Response:

Schedule A – Photo & Document File Structure

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

Structure: 467575-VZW - WESTFORD CT

Sector: **A** 8/27/2021

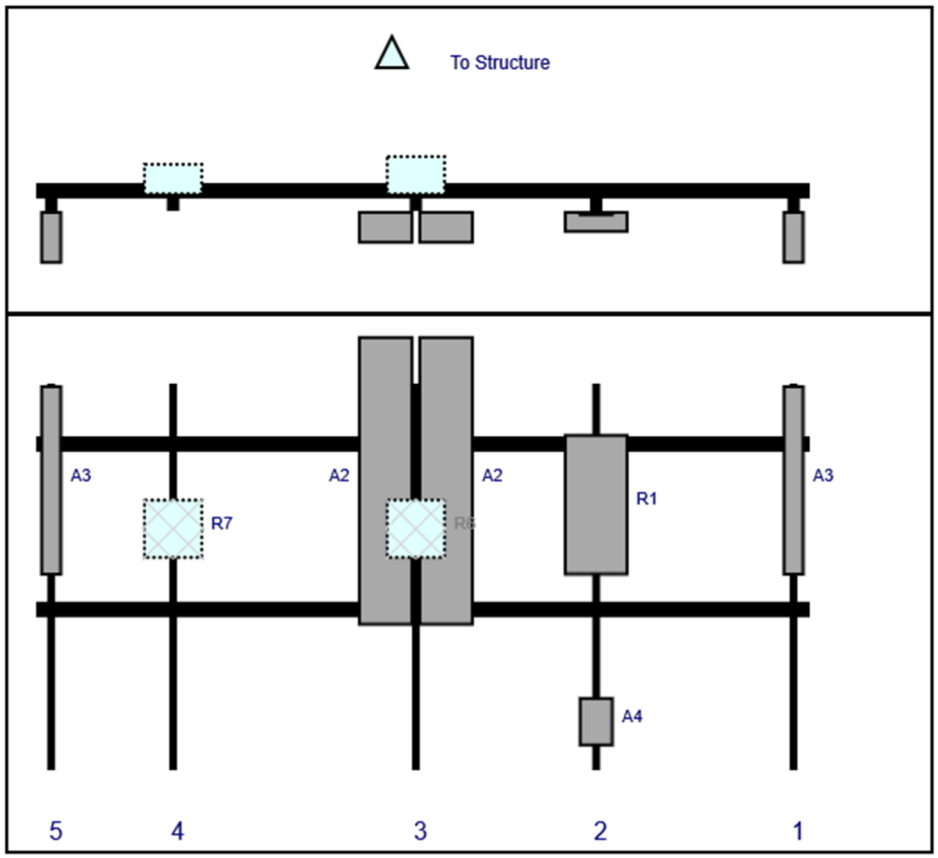
Structure Type: Self Support 10052227

Mount Elev: 180.00 Page: 1

MASER CONSULTING — CONNECTICUT —

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80080/4CF	47.2	5.5	188	1	a	Front	24	0	Retained	03/23/2021
A4	XXDWMM-12.5-65-8T	12.3	8.7	139	2	a	Front	84	0	Retained	03/23/2021
R1	MT6407-77A	35.1	16.1	139	2	a	Front	30	0	Added	
A2	JAHH-65B-R3B	72	13.8	94.25	3	a	Front	24	7.5	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	94.25	3	b	Front	24	-7.5	Retained	03/23/2021
R6	B2/B66A RRH-BR049	15	15	94.25	3	a	Behind	36	0	Retained	03/23/2021
R7	B5/B13 RRH-BR04C	15	15	34	4	a	Behind	36	0	Retained	03/23/2021
A3	LPA-80080/4CF	47.2	5.5	3.75	5	a	Front	24	0	Retained	03/23/2021

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Structure: 467575-VZW - WESTFORD CT

Sector: B
Structure Type: Self Support
Mount Elev: 180.00

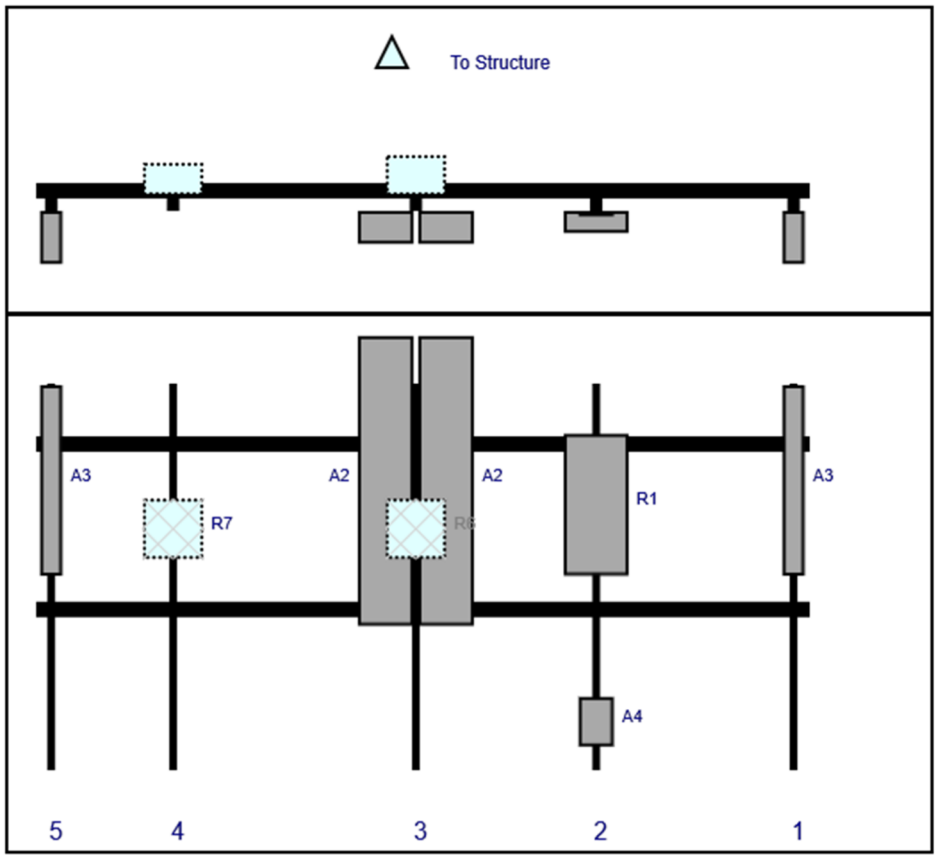
10052227

8/27/2021
Page: 2

MASER CONSULTING
— CONNECTICUT —

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80080/4CF	47.2	5.5	188	1	a	Front	24	0	Retained	03/23/2021
A4	XXDWMM-12.5-65-8T	12.3	8.7	139	2	a	Front	84	0	Retained	03/23/2021
R1	MT6407-77A	35.1	16.1	139	2	a	Front	30	0	Added	
A2	JAHH-65B-R3B	72	13.8	94.25	3	a	Front	24	7.5	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	94.25	3	b	Front	24	-7.5	Retained	03/23/2021
R6	B2/B66A RRH-BR049	15	15	94.25	3	a	Behind	36	0	Retained	03/23/2021
R7	B5/B13 RRH-BR04C	15	15	34	4	a	Behind	36	0	Retained	03/23/2021
A3	LPA-80080/4CF	47.2	5.5	3.75	5	a	Front	24	0	Retained	03/23/2021

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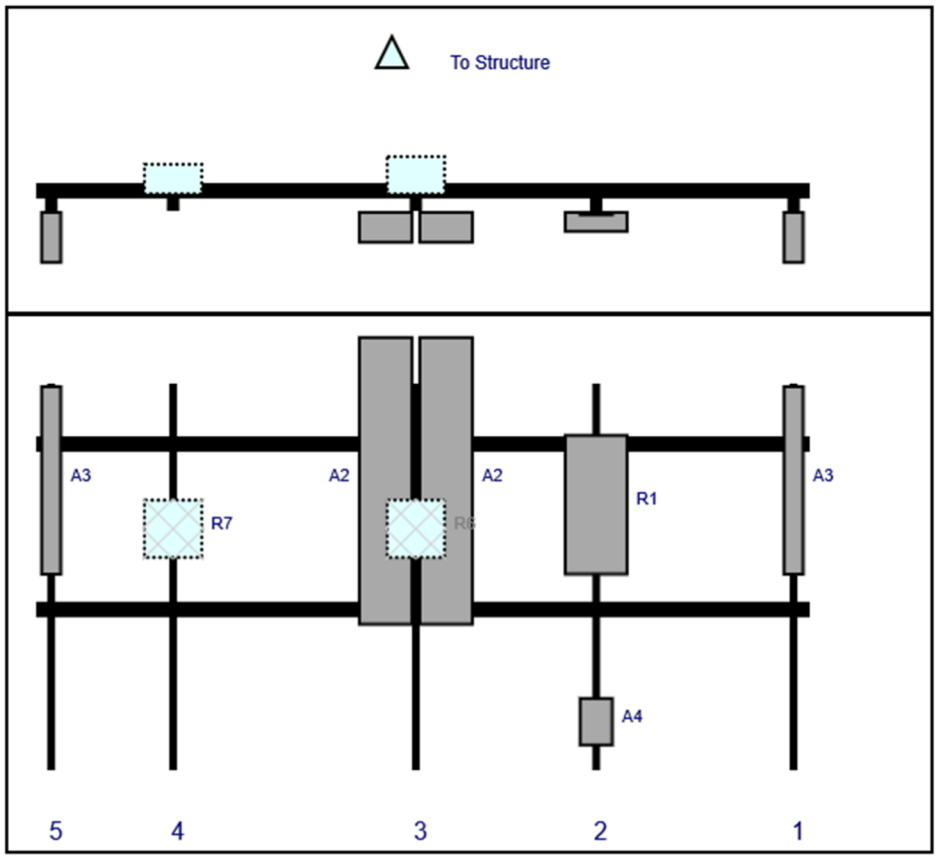
Structure: 467575-VZW - WESTFORD CT

Sector:	C		8/27/2021
Structure Type:	Self Support	10052227	
Mount Elev:	180.00		Page: 3

MASER CONSULTING
CONNECTICUT

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80080/4CF	47.2	5.5	188	1	a	Front	24	0	Retained	03/23/2021
A4	XXDWMM-12.5-65-8T	12.3	8.7	139	2	a	Front	84	0	Retained	03/23/2021
R1	MT6407-77A	35.1	16.1	139	2	a	Front	30	0	Added	
A2	JAHH-65B-R3B	72	13.8	94.25	3	a	Front	24	7.5	Retained	03/23/2021
A2	JAHH-65B-R3B	72	13.8	94.25	3	b	Front	24	-7.5	Retained	03/23/2021
R6	B2/B66A RRH-BR049	15	15	94.25	3	a	Behind	36	0	Retained	03/23/2021
R7	B5/B13 RRH-BR04C	15	15	34	4	a	Behind	36	0	Retained	03/23/2021
A3	LPA-80080/4CF	47.2	5.5	3.75	5	a	Front	24	0	Retained	03/23/2021

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MASER CONSULTING
— CONNECTICUT—

Maser Consulting Connecticut

Subject	TIA-222-H Adoption and Wind Speed Usage	
Site Information	*Site ID:*	*467575-VZW / WESTFORD CT*
	Site Name:	*WESTFORD CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*264 Janoski Rd* *Ashford, Connecticut 06278* *Windham County*
	Latitude:	*41.952139°*
	Longitude:	*-72.195528°*
Structure Information	*Tower Type:*	*Self Support*
	Mount Type:	*16.00-Ft Sector Frame*
	FUZE ID # 16272060	

To Whom It May Concern,

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

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

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

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

Sincerely,

Dejian XU

Dejian XU, PE
Technical Manager

Exhibit F

Power Density/RF Emissions Report

Site Name: ***WESTFORD CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)
VZW 700	751	4	621	2483	181	0.0027
VZW CDMA	877.26	2	342	684	181	0.0008
VZW Cellular	874	4	479	1917	181	0.0021
VZW PCS	1977.5	4	1493	5973	181	0.0066
VZW AWS	2120	4	1493	5973	181	0.0066
VZW CBRS	3625	4	18	72	179	0.0001
VZW CBAND	3730.08	4	6531	26125	182.5	0.0282

Total Percentage of Maximum Permissible Exposure

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Counci

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

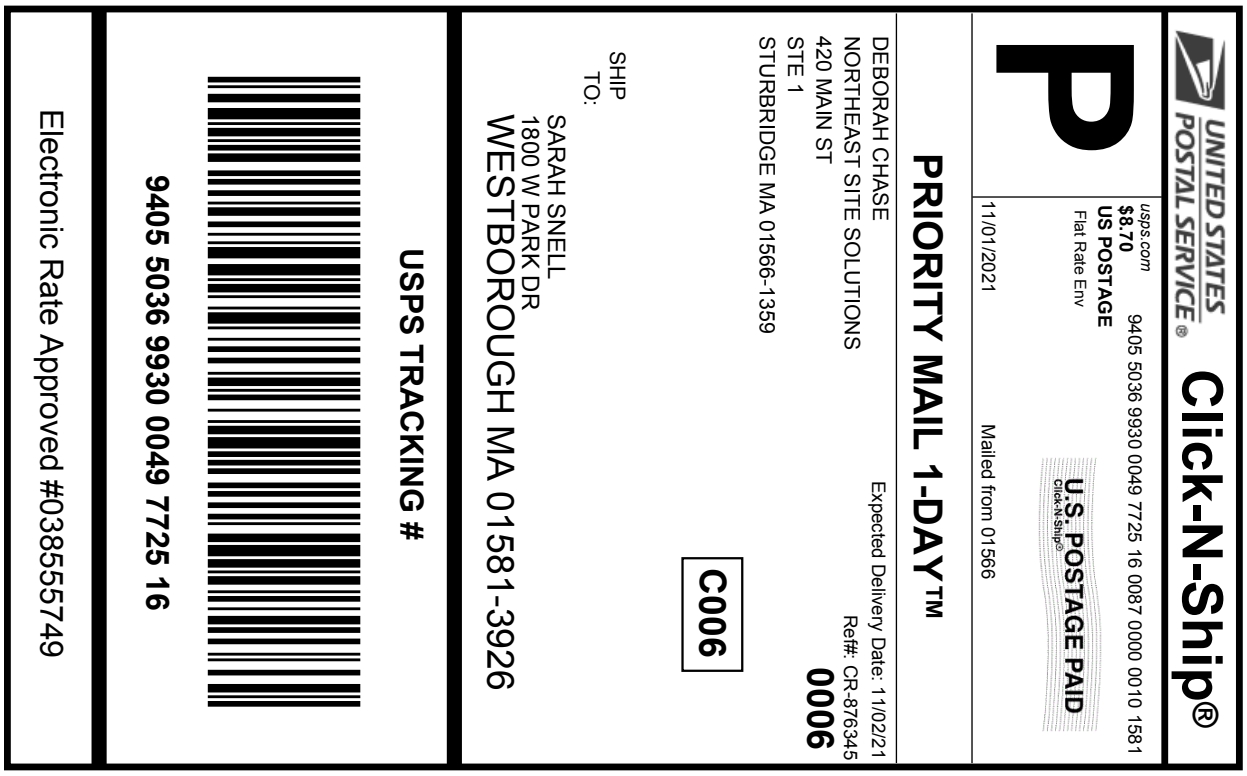
Absolute worst case maximum values used.

Maximum Permissible Exposure*	Fraction of MPE
(mW/cm^2)	(%)
0.5007	0.54%
0.5848	0.13%
0.5827	0.36%
1.0000	0.66%
1.0000	0.66%
1.0000	0.01%
1.0000	2.82%
	5.17%

/IEEE C95.1-199
il's November 10, 2015 Memorandum for Exempt Modification filing

Exhibit F

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 0049 7725 16

Trans. #:	547347086
Print Date:	11/01/2021
Ship Date:	11/01/2021
Expected Delivery Date:	11/02/2021

Priority Mail® Postage:	**$8.70**
Total:	**$8.70**

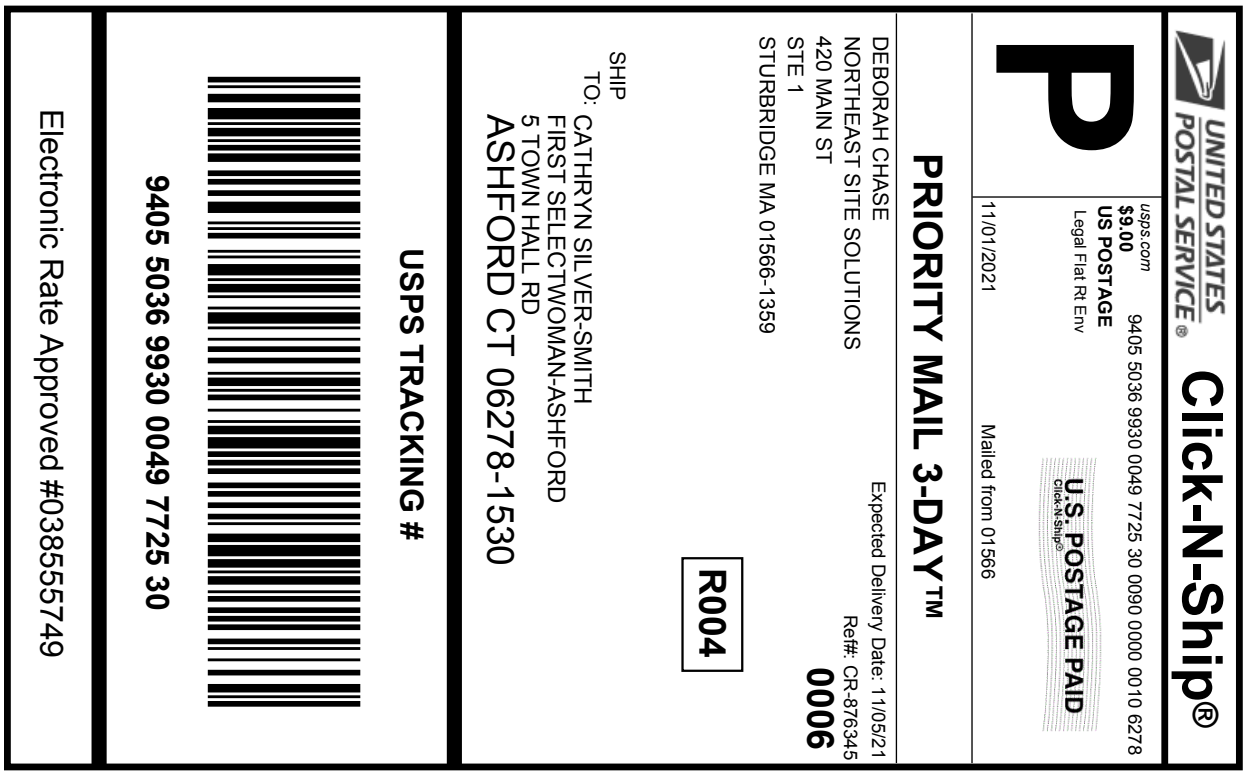
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876345

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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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 0049 7725 30

Trans. #:	547347086
Print Date:	11/01/2021
Ship Date:	11/01/2021
Expected Delivery Date:	11/05/2021

Priority Mail® Postage:	**$9.00**
Total:	**$9.00**

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

Ref#: CR-876345

To: CATHRYN SILVER-SMITH
FIRST SELECTWOMAN-ASHFORD
5 TOWN HALL RD
ASHFORD CT 06278-1530

* 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

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

9405 5036 9930 0049 7725 47 0090 0000 0010 6278

usps.com
$9.00
US POSTAGE
Legal Flat Rt Env

11/01/2021 Mailed from 01566

U.S. POSTAGE PAID
Click-N-Ship®

PRIORITY MAIL 3-DAY™

Expected Delivery Date: 11/05/21

Ref#: CR-876345

0006

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

R004

SHIP TO: MICHAEL D'AMATO
ZONING ENFORCEMENT OFFICER-ASHFORD
5 TOWN HALL RD
ASHFORD CT 06278-1530

USPS TRACKING #

9405 5036 9930 0049 7725 47

Electronic Rate Approved #038555749

Cut on dotted line.

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420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876345

To: MICHAEL D'AMATO
ZONING ENFORCEMENT OFFICER-ASHFORD
5 TOWN HALL RD
ASHFORD CT 06278-1530

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UNITED STATES POSTAL SERVICE®

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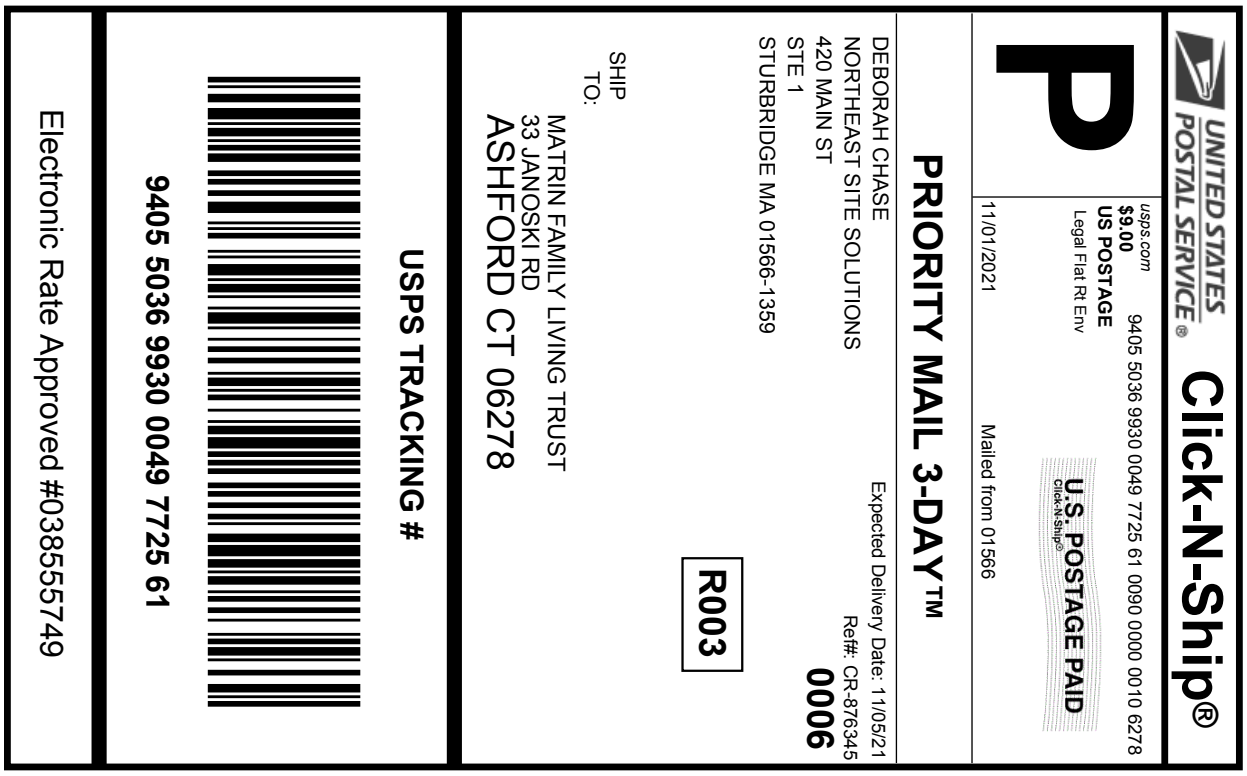
876345

UNITED STATES POSTAL SERVICE.

UNIONVILLE
24 MILL ST
UNIONVILLE, CT 06085-9998
(800)275-8777

11/03/2021 12:50 PM

Product	Qty	Unit Price	Price
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 2.00 oz Acceptance Date: Wed 11/03/2021 Tracking #: 9405 5036 9930 0049 7725 16	1		$0.00
Prepaid Mail Ashford, CT 06278 Weight: 1 lb 0.40 oz Acceptance Date: Wed 11/03/2021 Tracking #: 9405 5036 9930 0049 7725 30	1		$0.00
Prepaid Mail Ashford, CT 06278 Weight: 1 lb 0.50 oz Acceptance Date: Wed 11/03/2021 Tracking #: 9405 5036 9930 0049 7725 47	1		$0.00
Prepaid Mail Ashford, CT 06278 Weight: 1 lb 0.40 oz Acceptance Date: Wed 11/03/2021 Tracking #: 9405 5036 9930 0049 7725 61	1		$0.00
Grand Total:			$0.00



Cut on dotted line.

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

Ref#: CR-876345

To: MATRIN FAMILY LIVING TRUST
33 JANOSKI RD
ASHFORD CT 06278

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