Crown Castle
300 Barr Harbor Drive
Suite 300
Conshohocken, PA 19428

July 1, 2024

Via Fedex # 777159027398

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

RE: **Notice of Exempt Modification for Verizon Wireless: 5000121962**
Crown Site ID# 806359
423 Oronoque Road, Milford, CT 06460
Latitude: 41° 14′ 16.23″/ Longitude: -73° 5′ 10.00″

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains fifteen (15) antennas at the 100-foot mount located at 423 Oronoque Road, Milford, CT. The property is co-owned by Crown Atlantic Company and the tower is owned by Crown Castle. Cellco Partnership d/b/a Verizon Wireless now intends to add nine (9) new antennas with 6 remaining antennas and ancillary antenna equipment at the 100-ft mount level. This Eligible Facilities Request for antenna modification/proposal of an existing telecommunications facility includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Planned Modification:

Tower:
Install New:
(6) JMA – MX06FRO660-03 ANTENNAS
(3) SAMSUNG – MT6413-77A ANTENNA W/INTEGRATED RRU
(3) SAMSUNG – B2/B66A RRH ORAN (RF4439D-25A) RADIO
(3) SAMSUNG – RF4461D-13A RADIO
(1) RAYCAP – 12 OVP OVP BOX
(1) RFS/CELWAVE – 6X12 HYBRIFLEX HYBRID CABLE
Remove:
(6) DECIBLE – DB846F65ZAXY ANTENNAS
(3) SWEDCOM – SWCP2X5514 ANTENNAS
(3) NOKIA – UHID B4 RRH 2X40 RADIOS
(1) RAYCAP – 6 OVP
(1) ANDREW – 7/8" COAX CABLE

Ground:
Install New:
(1) SAMSUNG – LCC4

Remove:
(3) NOKIA – UHBA B13 RRH 4X30 RADIO

The facility was originally approved by the Connecticut Siting Council on April 14, 1986 per Docket No. 56.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Hon. Anthony S. Giannattasio, Mayor, City of Milford and Stephen Harris, Zoning Enforcement Officer, City of Milford. Crown Castle is the tower owner and co-owner of property.

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

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

3. The proposed modification 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 Communication 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, Cellco Partnership d/b/a Verizon Wireless respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jenifer Bachi.

Sincerely,

Jenifer Bachi
Permitting Specialist
300 Barr Harbor Drive, Ste. 300
Conshohocken, PA 19428
(610) 635-3221
Jenifer.bachi@crowncastle.com

Attachments are as follows:

Exhibit A – Original Facility Approval
Exhibit B – Property Card
Exhibit C – Property Map
Exhibit D – Construction Drawings
Exhibit E – Structural Analysis Report
Exhibit F – Mount Analysis Report
Exhibit G – Power Density / RF Emissions Report
Exhibit H – Recipient Mailing Records
Check #293431 for $625 Application Fee

cc: Via Fedex # 777158742508
Hon. Anthony S. Giannattasio, Mayor
City of Milford
110 River Street
Milford, CT 06460
203-783-3201

Via Fedex # 777158679785
Stephen Harris, Zoning Enforcement Officer
City of Milford
70 West River Street
Milford, CT 06460
203-783-3245

Crown Castle, Tower Owner And Co-owner – c/o Crown Atlantic Company

EXHIBIT A

Original Facility Approval

DOCKET NO. 56

AN APPLICATION OF METRO MOBILE CTS OF NEW HAVEN, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF FACILITIES TO PROVIDE CELLULAR SERVICE IN NEW HAVEN COUNTY.	:	CONNECTICUT SITING COUNCIL April 14, 1986

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut (CGS) be issued to Metro Mobile CTS of New Haven, Inc., for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Wolcott, Naugatuck, West Haven (existing tower), Milford, Hamden (existing tower), Guilford, and North Branford subject to the conditions below.

1. The proposed and alternate Beacon Falls sites are rejected without prejudice.
2. The Wolcott tower shall be constructed to meet Zone C wind loading with 1" of radial ice and shall not exceed 180' in height excluding antennas.
3. The Naugatuck tower shall not exceed 160' in height, excluding antennas. The certificate holder shall offer to remove the existing privately owned, unused tower now on the site.
4. Any future actions requiring the removal of the existing West Haven or Hamden towers to be shared by the certificate holder shall also apply to the equipment mounted on those towers by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.

5. The Milford tower shall be a monopole structure not to exceed 100' in height, excluding antennas.
6. The Guilford tower shall be a monopole structure not to exceed 150' in height, excluding antennas.
7. The North Branford Route 17 site is rejected. The North Branford East Reeds Gap Road tower shall not exceed 160' in height, excluding antennas.
8. The certificate holder shall submit a development and management plan for the Wolcott, Naugatuck, Milford, Hamden, Guilford, and North Branford sites pursuant to sections 16-50j-75 through 16-50j-77 of the RSA, except that irrelevant items in section 16-50j-76 need only be identified as such. In addition to the requirements of section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Wolcott, Milford, Hamden, Guilford, and North Branford sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.
9. All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the site development and management plan required by order 8.
10. The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with 16-50j-73, the

certificate holder shall notify the Council of the addition of any equipment to any approved tower.

11. A fence not lower than 8' shall surround each tower and associated equipment.

12. Unless necessary to comply with order 13, below, no lights shall be installed on any of these towers.

13. The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to sections 16-50i and 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.

14. Construction activities shall take place during daylight working hours.

15. This decision and order shall be void and the towers and associated equipment shall be dismantled and removed, or reapplication for any new use shall be made to the CSC before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.

16. This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice

of the issuance shall be published in The Record-Journal, The New Haven Register, The Branford Review, The Evening Sentinel, The Waterbury American, and The Waterbury Republican.

The parties to this proceeding are:

Metro Mobile CTS of New Haven, Inc. (Applicant)
5 Eversley Avenue
Norwalk, Connecticut 06855

ATTN: Armand Mascioli
General Manager

Mr. Kevin B. Sullivan, Esq. (its attorneys)
Byrne, Slater, Sandler, Shulman & Rouse, P.C.
111 Pearl Street
P.O. Box 3216
Hartford, Connecticut 06103

Mr. Richard Rubin, Esq.
Fleischman and Walsh, P.C.
1725 N Street, N.W.
Washington, D.C. 20036

Guilford Conservation Commission represented by:

Mr. David B. Damer
Chairman
Guilford Conservation Commission
440 Great Hill Road
Guilford, Connecticut 06437

Mr. Robert W. Griswold, Jr.
100 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Town of Hamden
Memorial Town Hall
2372 Whitney Avenue
Hamden, Connecticut 06518

ATTN: Shirley Gonzales
Town Planner

Guilford Planning and Zoning Commission — represented by:

Mr. David W. Fisher
Chairman
Town Hall
31 Park Street
Guilford, Connecticut 06437

Town of Hamden — represented by:

John DeNicola, Jr.
Mayor
Town of Hamden
Memorial Town Hall
2372 Whitney Avenue
New Haven, Connecticut 06518

Citizens Park Council of New Haven — represented by:

Mr. John J. Ciarleglio
President
Citizens Park Council
of New Haven
36 Elmwood Road
New Haven, Connecticut 06515

Mr. Thomas V. Keating
343 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Ms. Evelyn M. Sirowich
245 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Mr. Jack B. Levine
11 White Birch Lane
Beacon Falls, Connecticut 06403

Southern New England Telephone Company — represented by:

Mr. Peter J. Tyrrell, Esq.
227 Church Street
New Haven, Connecticut 06506

Mr. Dennis Bialecki
96 West Road
Beacon Falls, Connecticut 06403

Brittany Woods Homeowner's Association

represented by:

Mr. Stephen P. Del Sole, Esq.
Del Sole & Del Sole
152 Temple Street
P.O. Box 405
New Haven, Connecticut 06502-0405

Ms. Barbara G. Schlein
Box 2993 Westville Station
New Haven, Connecticut 06515

Mr. & Mrs. Joseph T. Farrell, Jr.
334 Rimmon Hill Road
Beacon Falls, Connecticut 06403

Town of Beacon Falls

represented by:

The Honorable Leonard F. D'Amico
First Selectman
10 Maple Avenue
Beacon Falls, Connecticut 06403

West Rock Ridge Park Association

represented by:

Mr. William L. Doheny Jr., D.D.S.
President
220 Mountain Road
Hamden, Connecticut 06514

Department of Parks,
Recreation & Trees

represented by:

Mr. Robert G. Sheeley
Director
Parks, Recreation & Trees
P.O. Box 1416
New Haven, Connecticut 06506

Town of Wallingford

represented by:

William W. Dickinson, Jr.
Mayor
Municipal Building
350 Center Street
P.O. Box 427
Wallingford, Connecticut 06492

New Haven Sierra Club

represented by:

Ms. Laurie Klein
270 Edgewood Avenue
New Haven, Connecticut 06511

Peter M. Lerner
State Representative
8 Merritt Avenue
Woodbridge, Connecticut 06525

Carleton J. Benson
State Representative
161 Scott Road
Prospect, Connecticut 06712

Dr. Stephen Collins (service waived)
Vice Chairman
West Rock State Park
Advisory Council
Bethany, Connecticut

Mr. Louis Melillo (service wavied)
985 Wintergreen Avenue
Hamden, Connecticut

Mr. John McGeever (service waived)
339 Rimmon Hill
Beacon Falls, Connecticut 06403

Senator John Consoli (service waived)
51 Luke Hill Road
Bethany, Connecticut 06525

Representative George P. Bassing (service waived)
14 Oakwood Drive
Seymour, Connecticut 06483

Dr. George D. Whitney (service waived)
858 Oakwood Road
Orange, Connecticut

Mr. Steve Molnar (service waived)
205 West Road
Beacon Falls, Connecticut

Mr. James W. Grandy (service waived)
President
Hamden Land Conservation Trust
Hamden, Connecticut

Senator Richard S. Eaton (service waived)
269 Mulberry Point Road
Guilford, Connecticut 06437

Representative Robert M. Ward
719 Totoket Road
Northford, Connecticut 06472

Town of North Branford	represented by: John Gesmonde, Esquire 3127 Whitney Avenue Hamden, Connecticut 06518
Regina Smith 1887 Middletown Avenue Northford, Connecticut 06472	(service waived)
Richard A. Nizolek The Restland Farm Corporation Route 17 Northford, Connecticut 06472	
Mary Liska 83 Reeds Gap Road Northford, Connecticut 06472	
Ben Bullard 50 Christmas Hill Road Guilford, Connecticut 06437	(service waived)
Roland Robichaud 31 Berncliff Drive North Branford, Connecticut 06471	(service waived)
Irene Flynn 1926 Middletown Avenue Northford, Connecticut 06472	(service waived)
Charles Pope 199 Donalds Road Guilford, Connecticut 06437	
Richard Abate 131 Manor Road Guilford, Connecticut 06437	(service waived)
City of Milford	represented by: Mayor Alberta Jagoe Alderman Maurice Condon Alderman Frederick Lisman City Hall River Street Milford, Connecticut 06460
Thomas Scelfo 81 Berncliff Drive North Branford, Connecticut 06471	(service waived)

Senator Thomas Scott (service waived)
22 Meyers Court
Milford, Connecticut 06460

Helen Moore (service waived)
385 Oronoque Road
Milford, Connecticut 06460

William Barberi (service waived)
298 Oronoque Road
Milford, Connecticut 06460

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 14th day of April, 1986.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
Commissioner Stanley Pac Designee: Christopher Cooper	No
Owen L. Clark	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
Pamela B. Katz	Yes
William H. Smith	No
Colin C. Tait	No

STATE OF CONNECTICUT)
: ss. New Britain, April 14, 1986
COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

Christopher S. Wood

Christopher S. Wood, Executive Director
Connecticut Siting Council

EXHIBIT B

Property Card

City of Milford, CT

Property Listing Report

Map Block Lot	074 925 3 A	Bldg #	1	Sec #	1	PID	17142	Account	008119

Property Information

Property Location	423 ORONOQUE RD
Owner	GUERNSEY DAVID
Co-Owner	C/O CROWN ATLANTIC CO LLC
Mailing Address	4017 WASHINGTON RD PMB 353 MCMURRAY PA 15317
Land Use	434V CELL TOWER MDL-00
Land Class	I
Zoning Code	R30
Census Tract	

Neighborhood	F
Acreage	0
Utilities	
Lot Setting/Desc	UNKNOWN Below Street
Book / Page	03011/0131
Fire District	2

Photo

Sketch

Primary Construction Details

Year Built	0
Building Desc.	CELL TOWER
Building Style	UNKNOWN
Building Grade	
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	NA
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	NA
Interior Floors 1	
Interior Floors 2	NA

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	
Fireplaces	0

(*Industrial / Commercial Details)

Building Use	Vacant
Building Condition	
Sprinkler %	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA
Foundation	NA

Report Created On 7/1/2024

City of Milford, CT

Property Listing Report

Map Block Lot	074 925 3 A	Bldg #	1	Sec #	1	PID	17142	Account	008119

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	0	0
Extras	0	0
Improvements		
Outbuildings	276170	193320
Land	0	0
Total	276170	193320

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area	0	0

Outbuilding and Extra Features

Type	Description
W/LIGHTS ETC	300 S.F.
CEL TWR SITE	1 UNITS

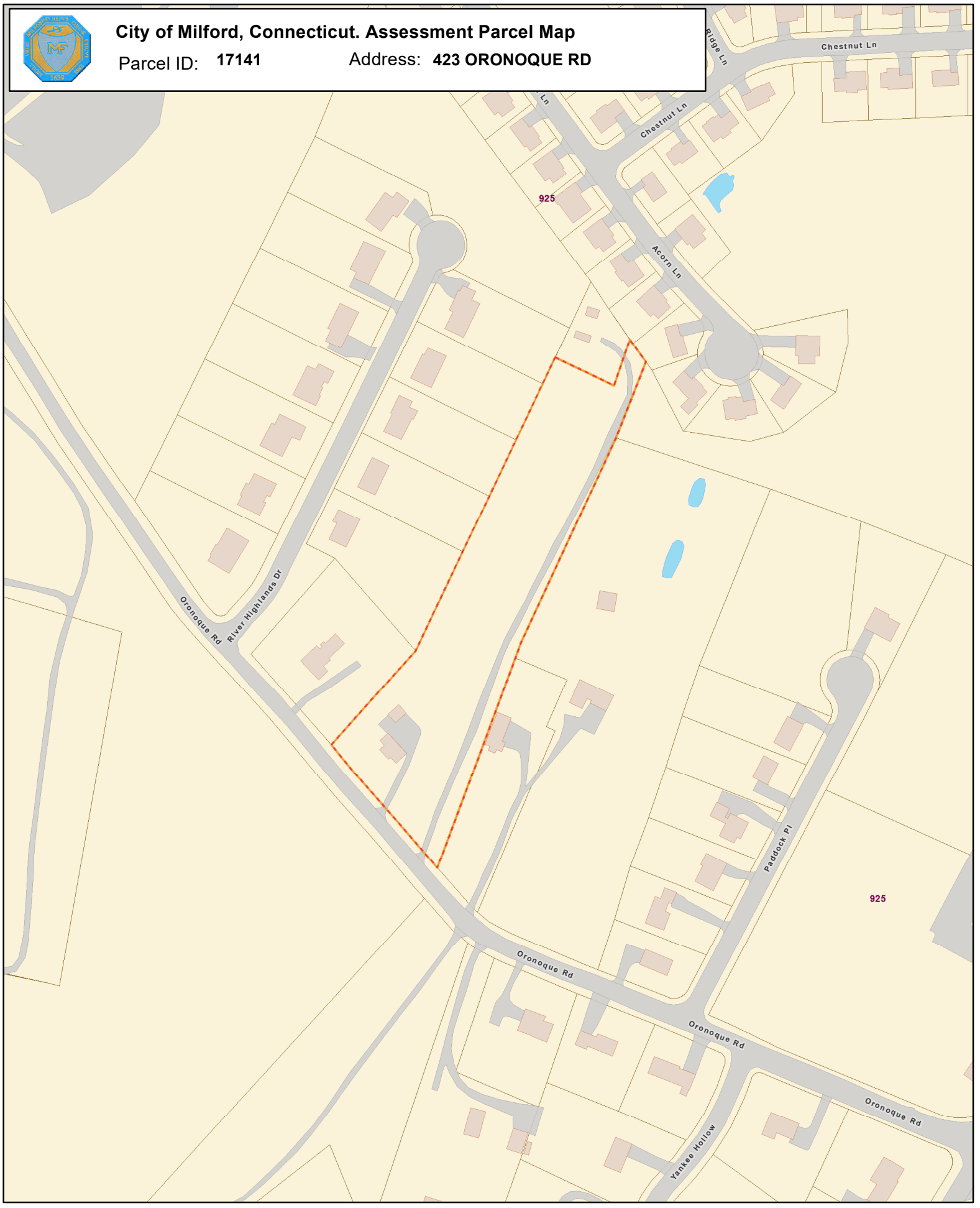
Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
GUERNSEY DAVID	03011/0131	2005-08-08	0
GUERNSEY DAVID & ET AL* & SURV	02370/0420	1999-09-09	0
GUERNSEY DAVID & VIRGINIA S & SUR	02222/0543	1997-06-02	0
GUERNSEY DAVID	02222/0542	1997-06-02	0
GUERNSEY ADDIE E EST	02107/0247	1995-03-07	0
GUERNSEY ADDIE E	01926/0313	1992-10-29	0
GUERNSEY CLIFFORD T & ADDIE &	00490/0321	1961-06-30	0

Report Created On 7/1/2024

EXHIBIT C

Property Map



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

Map Produced: May 2023

EXHIBIT D

Construction Drawings

verizon

VERIZON SITE NUMBER:	**5000121962**
VERIZON SITE NAME:	**MILFORD CT**
VERIZON PROJECT:	**16231875**
SITE TYPE:	**MONOPOLE**
TOWER HEIGHT:	**100'-0"**
BUSINESS UNIT #:	**806359**
SITE ADDRESS:	**423 ORONOQUE RD MILFORD, CT 06460**
COUNTY:	**NEW HAVEN**
JURISDICTION:	**CITY OF MILFORD**

SITE INFORMATION

CROWN CASTLE USA INC.	
SITE NAME:	NHV 104 943122
BU NUMBER:	806359
TOWER OWNER:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY BEDMINSTER, NJ 07921
SITE ADDRESS:	423 ORONOQUE RD MILFORD, CT 06460
COUNTY:	NEW HAVEN
LATITUDE:	41° 14' 16.23" / 41.2379°
LONGITUDE:	-73° 5' 10.00" / -73.0862°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	164'+/- AMSL
AREA OF CONSTRUCTION:	EXISTING
CURRENT ZONING:	R-30
MAP/PARCEL #:	MILF-000074-000925-000003
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	GLOBAL SIGNAL ACQUISITION PO BOX 277455 ATLANTA, GA 30384-7455
JURISDICTION:	CITY OF MILFORD 70 WEST RIVER STREET MILFORD, CT 06460
ELECTRIC PROVIDER:	UNITED ILLUMINATING CO (800) 722-5584
TELCO PROVIDER:	ATT (866) 620-6900

PROJECT TEAM

A&E FIRM:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CROWN CASTLE DISTRICT CONTACTS:	2000 CORPORATE DRIVE CANONSBURG, PA 15317 ALEXANDER MABBETT - PROJECT MANAGER ALEXANDER.MABBETT@CROWNCASTLE.COM PAIGE THOMSEN - AES PAIGE.THOMSEN@CROWNCASTLE.COM

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

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATIONS
C-3	ANTENNA PLANS
C-4	FINAL EQUIPMENT SCHEDULE
C-5.1	EQUIPMENT DETAILS & SPECIFICATIONS
C-5.2	EQUIPMENT DETAILS & SPECIFICATIONS
C-6	COLOR CODE MATRIX
G-1	GROUNDING DETAILS
ATTACHED	RFDS PLUMBING DIAGRAMS
ATTACTED	MOUNT MODIFICATION (BY OTHERS)

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.

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

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vzwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	10215323
VzW LOCATION CODE (PSLC)	467373

*** 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

APPROVALS

VERIZON SIGNATURE BLOCK

APPROVAL	SIGNATURE	DATE
SITE ACQUISITION		
CONSTRUCTION		
RADIO		
MICROWAVE		
TELCO		
EQUIPMENT		
PROJECT ADMINISTRATOR		
WO ADMINISTRATOR		

CROWN CASTLE USA INC. SINGNATURE BLOCK

APPROVAL		
SITE ACQUISITION		
PLANNER		
CONSTRUCTION		
PROJECT MANAGER		
UTILITY MANAGER		
LANDLORD		

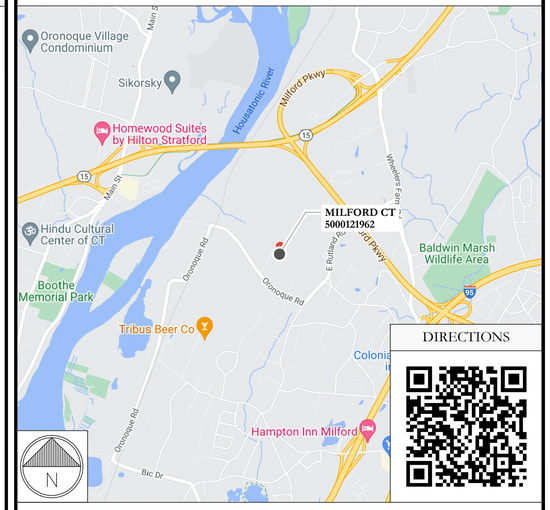
PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (6) DECIBEL - DB846F65ZAXY ANTENNA
- REMOVE (3) SWEDCOM - SWCP2X5514 ANTENNA
- REMOVE (3) NOKIA - UHID B4 RRH 2X40 RADIO
- REMOVE (1) RAYCAP - 6 OVP (6 POWER/12 CPRI) OVP BOX
- REMOVE (1) ANDREW - 7/8" COAX CABLE
- INSTALL (6) JMA - MX06FRO660-03 ANTENNA
- INSTALL (3) SAMSUNG - MT6413-77A ANTENNA W/INTEGRATED RRU
- INSTALL (3) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A) RADIO
- INSTALL (3) SAMSUNG - RF4461D-13A RADIO
- INSTALL (1) RAYCAP - 12 OVP OVP BOX
- INSTALL (1) RFS/CELWAVE - 6X12 HYBRIFLEX HYBRID CABLE

GROUND SCOPE OF WORK:
- REMOVE (3) NOKIA - UHBA B13 RRH 4X30 RADIO
- INSTALL (1) SAMSUNG - LCC4

LOCATION MAP



NO SCALE

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	2021 IBC
MECHANICAL	2021 IMC
ELECTRICAL	2019 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	2/19/24
MOUNT ANALYSIS:	COLLIERS ENGINEERING & DESIGN
DATED:	12/13/23
RFDS REVISION:	REV 6
DATED:	11/10/23
ORDER ID:	662910
REVISION:	0

INSTALLER NOTE:

NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT MODIFICATION DESIGN BY COLLIERS ENGINEERING & DESIGN DATED 12/13/23.

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by:
Graham Andres
9575EC119634479...

GRAHAM M. ANDRES 29538 LICENSED PROFESSIONAL ENGINEER STATE OF CONNECTICUT

4/3/2024 | 12:50:50 PM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

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

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. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90s. ABOVE GRADE CONDUIT TO BE SCH 80 PVC OR IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.
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

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by:
Graham Andres
9575EC119634479...

GRAHAM M. ANDRES
29538

4/3/2024 | 12:50:50 PM CDT

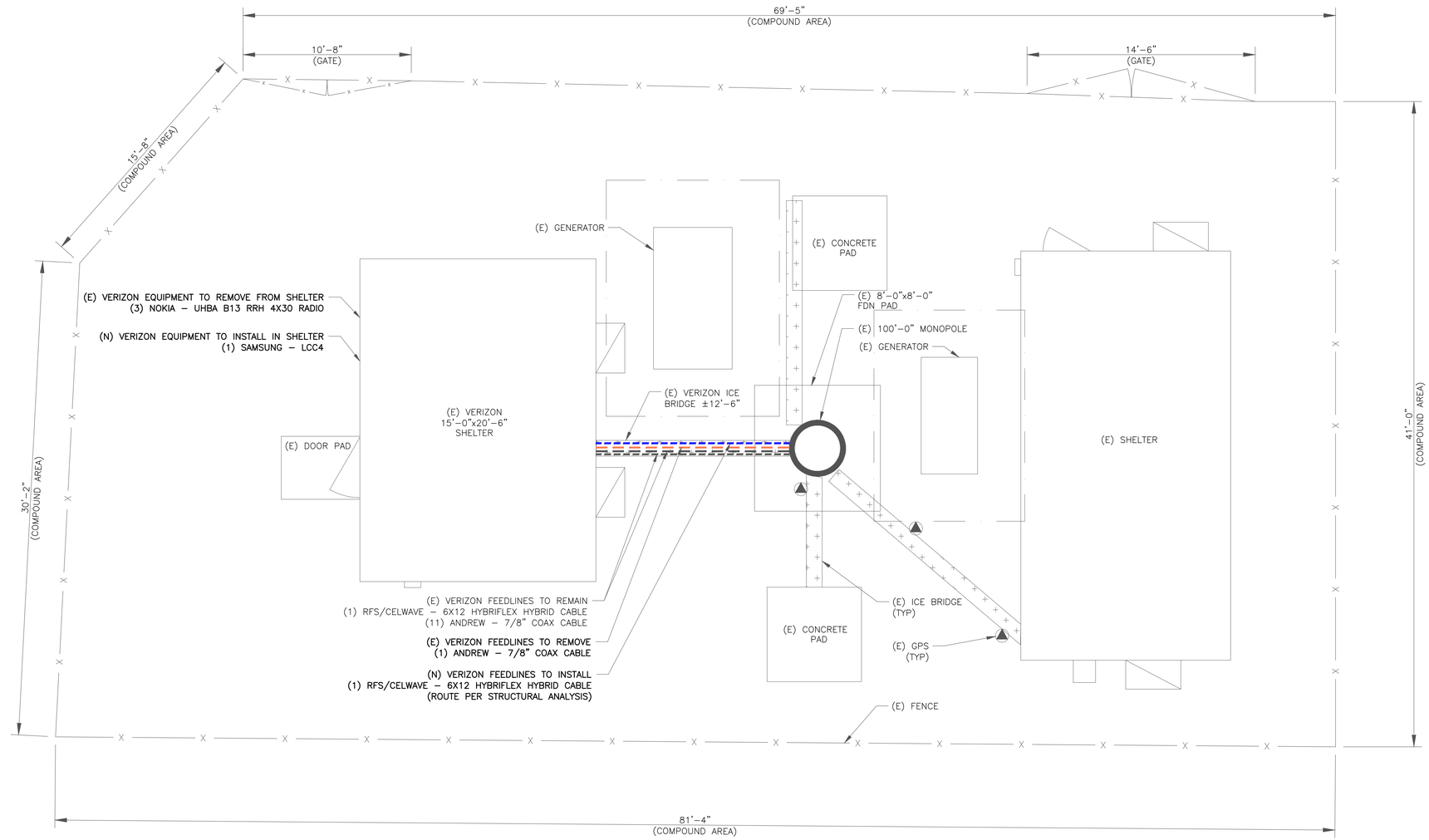
CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

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

CC VERIZON NATIONAL ANTENNA AMENDMENT_2024-04-01



1 SITE PLAN

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

N

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

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DocuSigned by:
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9575EC119634479...

STATE OF CONNECTICUT
GRAHAM M. ANDRES
29538
LICENSED
PROFESSIONAL ENGINEER

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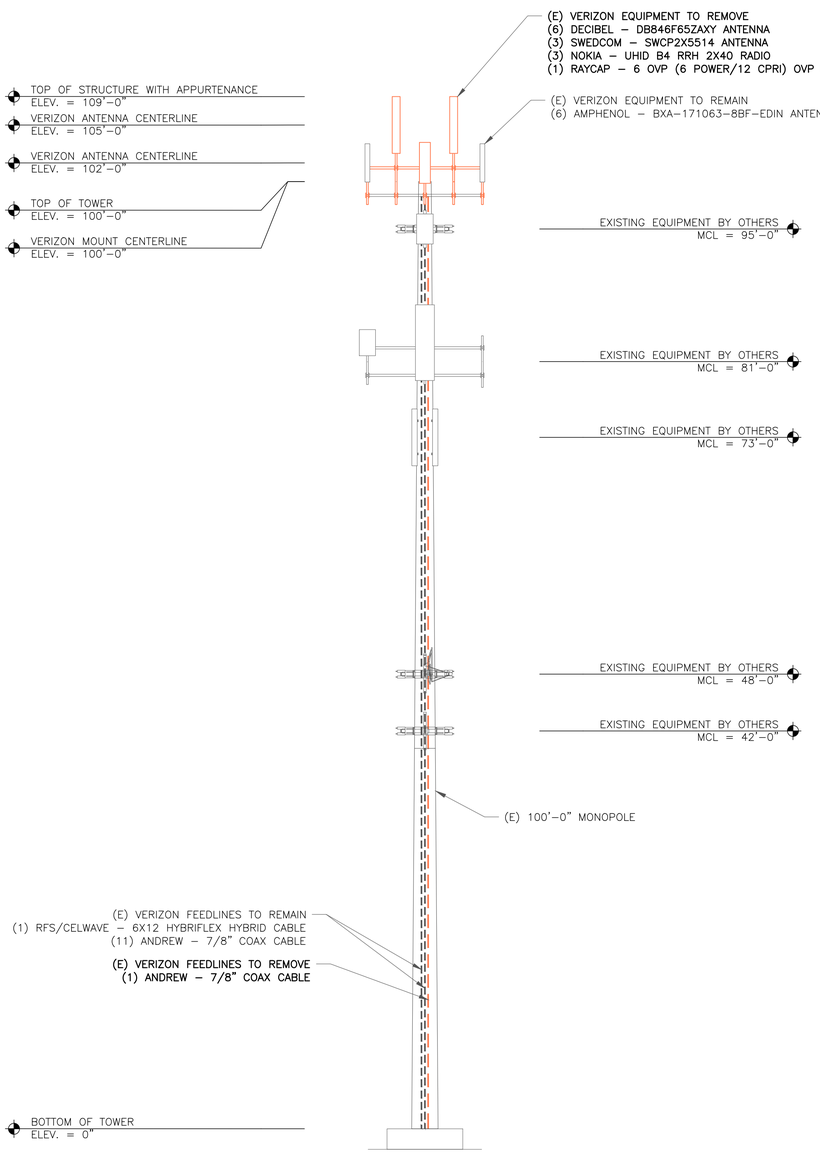
CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

SHEET NUMBER: C-1

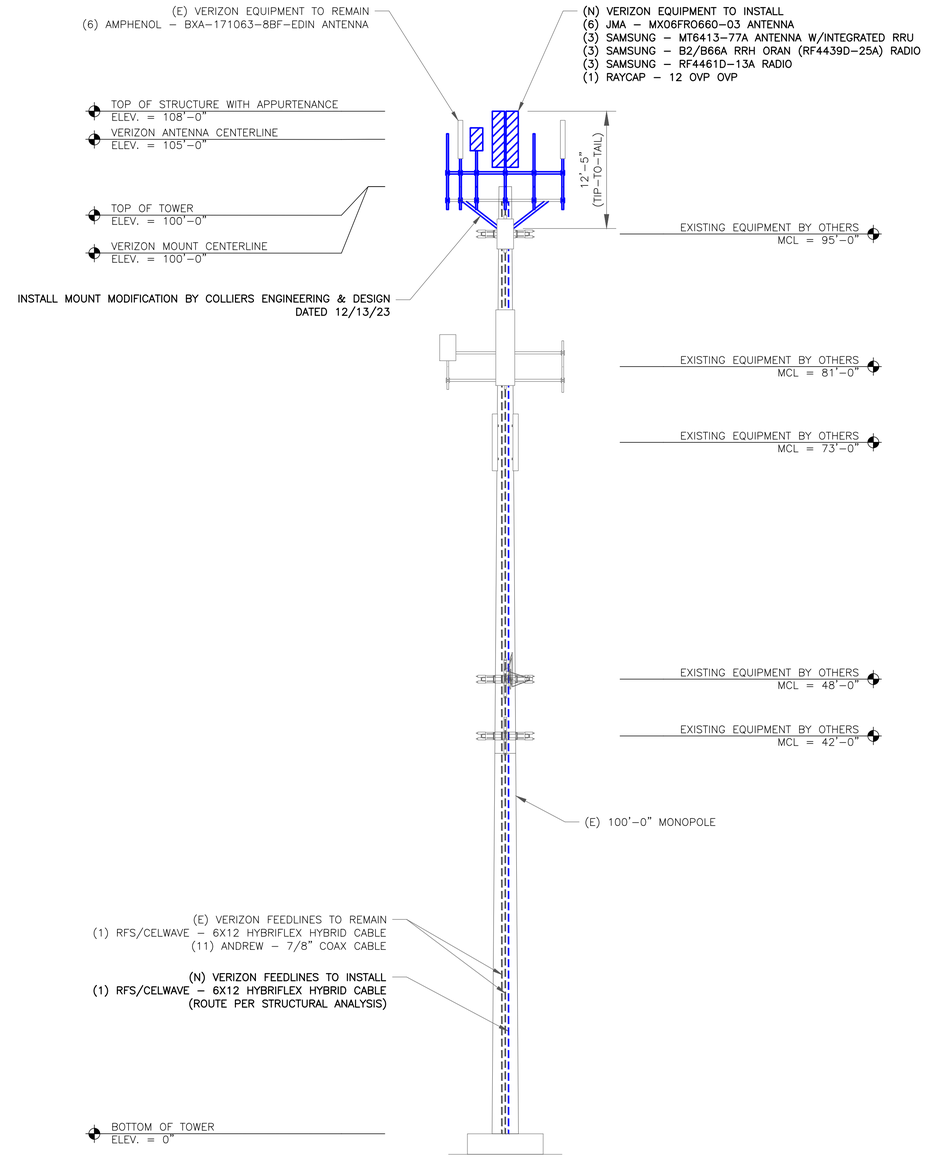
REVISION: 0

VERIZON EQUIPMENT

ANTENNA CL: 105'-0"
MOUNT CL: 100'-0"



1 EXISTING TOWER ELEVATION
SCALE: 8' 6' 4' 2' 0 8' — 1/8"=1'–0" (FULL SIZE) 1/16"=1'–0" (11x17)



2 FINAL TOWER ELEVATION
SCALE: 8' 6' 4' 2' 0 8' — 1/8"=1'–0" (FULL SIZE) 1/16"=1'–0" (11x17)

INSTALLER NOTE:

NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT MODIFICATION DESIGN BY COLLIERS ENGINEERING & DESIGN DATED 12/13/23.

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by:
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0575EC119634479...

STATE OF CONNECTICUT
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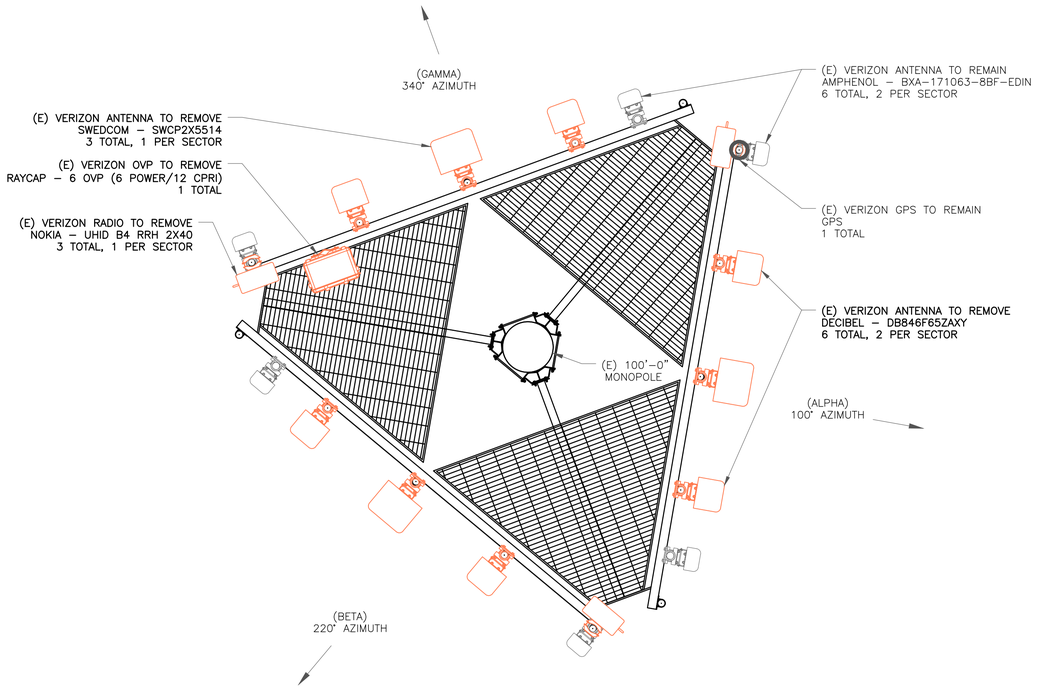
CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

SHEET NUMBER: C-2

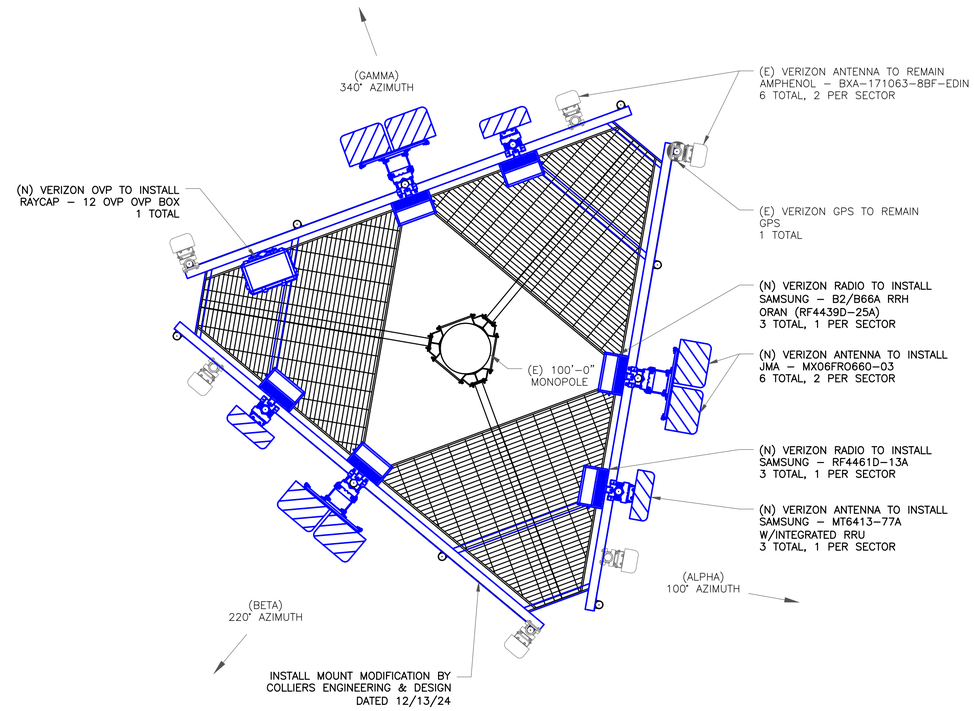
REVISION: 0



1 EXISTING ANTENNA PLAN

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

N



2 FINAL ANTENNA PLAN

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

N

INSTALLER NOTE:

NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT MODIFICATION DESIGN BY COLLIERS ENGINEERING & DESIGN DATED 12/13/23.

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by:
Graham Andres
9575EC119634479...

STATE OF CONNECTICUT
GRAHAM M. ANDRES
29538
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PROFESSIONAL ENGINEER

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CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

SHEET NUMBER: C-3

REVISION: 0

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	AWS	(E) AMPHENOL – BXA–171063–8BF–EDIN	100°	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
A2	–	–	–	105'–0"	–	–	–	–	–	–	–	–	1	(N) RAYCAP 12 OVP	1	(E) HYBRID CABLE	1–5/8"	–
															1	(N) HYBRID CABLE	1–5/8"	150'
A3	700 850 1900 AWS	(N) JMA – MX06FRO660–03	100°	105'–0"	1	(N) SAMSUNG – B2/B66A RRH ORAN (RF4439D–25A)	TOWER	–	–	–	–	–	–	–	–	–	–	–
		(N) JMA – MX06FRO660–03	100°	105'–0"														
A4	L–SUB6	(N) SAMSUNG – MT6413–77A	100°	105'–0"	1	(N) SAMSUNG – RF4461D–13A	TOWER	–	–	–	–	–	–	–	–	–	–	–
					1	INTEGRATED	TOWER											
A5	AWS	(E) AMPHENOL – BXA–171063–8BF–EDIN	100°	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
B1	AWS	(E) AMPHENOL – BXA–171063–8BF–EDIN	220°	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
B2	–	–	–	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
B3	700 850 1900 AWS	(N) JMA – MX06FRO660–03	220°	105'–0"	1	(N) SAMSUNG – B2/B66A RRH ORAN (RF4439D–25A)	TOWER	–	–	–	–	–	–	–	–	–	–	–
		(N) JMA – MX06FRO660–03	220°	105'–0"														
B4	L–SUB6	(N) SAMSUNG – MT6413–77A	220°	105'–0"	1	(N) SAMSUNG – RF4461D–13A	TOWER	–	–	–	–	–	–	–	–	–	–	–
					1	INTEGRATED	TOWER											
B5	AWS	(E) AMPHENOL – BXA–171063–8BF–EDIN	220°	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
G1	AWS	(E) AMPHENOL – BXA–171063–8BF–EDIN	340°	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
G2	–	–	–	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–
G3	700 850 1900 AWS	(N) JMA – MX06FRO660–03	340°	105'–0"	1	(N) SAMSUNG – B2/B66A RRH ORAN (RF4439D–25A)	TOWER	–	–	–	–	–	–	–	–	–	–	–
		(N) JMA – MX06FRO660–03	340°	105'–0"														
G4	L–SUB6	(N) SAMSUNG – MT6413–77A	340°	105'–0"	1	(N) SAMSUNG – RF4461D–13A	TOWER	–	–	–	–	–	–	–	–	–	–	–
					1	INTEGRATED	TOWER											
G5	AWS	(E) AMPHENOL – BXA–171063–8BF–EDIN	340°	105'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	–

UNUSED FEEDLINES

11	(E) COAX CABLE	1–5/8"	–
–	–	–	–

1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by:
Graham Andres
9575EC119634479...

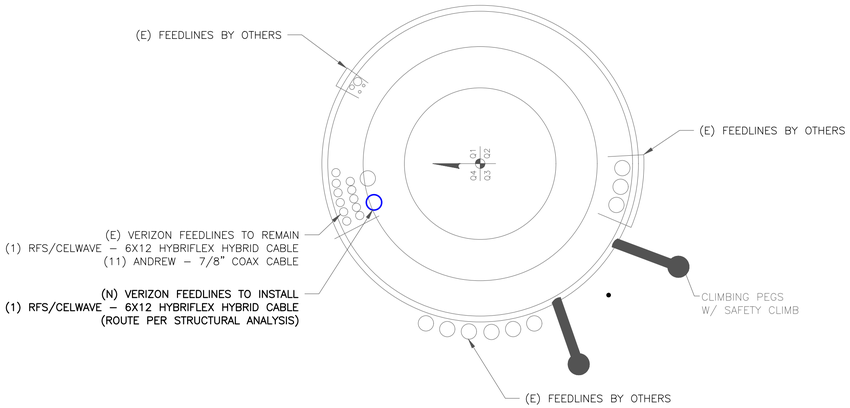
STATE OF CONNECTICUT
GRAHAM M. ANDRES
29538
LICENSED
PROFESSIONAL ENGINEER

4/3/2024 | 12:50:50 PM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

SHEET NUMBER: C-4

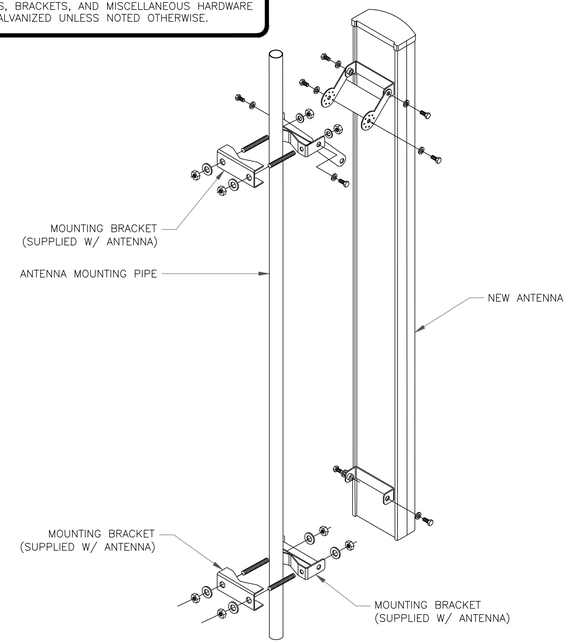
REVISION: 0



1 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTE:

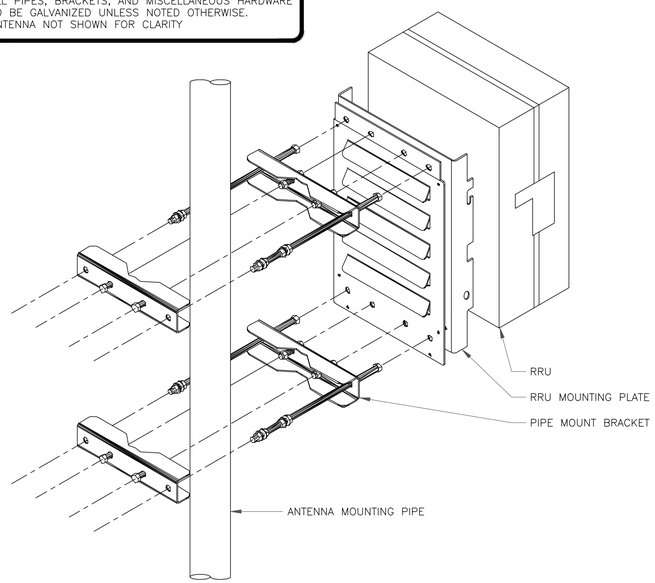
1. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



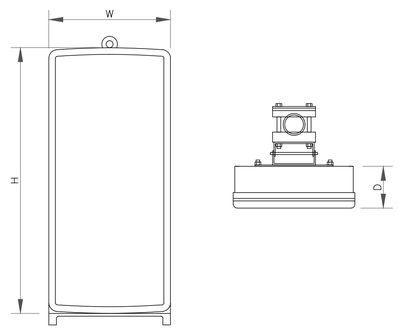
2 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRUs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRU PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
4. ANTENNA NOT SHOWN FOR CLARITY

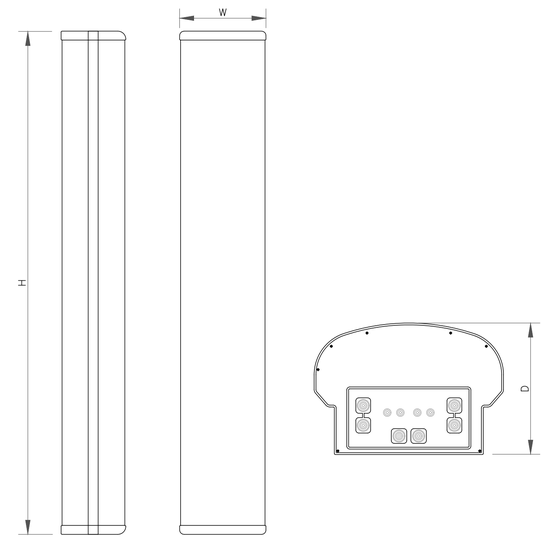


3 RRU MOUNTING DETAIL
SCALE: NOT TO SCALE



ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6413-77A
HxWxD	28.90" x 15.75" x 5.51"
WEIGHT	57.3 LBS

4 SAMSUNG – MT6413-77A
SCALE: NOT TO SCALE



ANTENNA SPECS	
MANUFACTURER	JMA WIRELESS
MODEL #	MX06FRO660-03
HxWxD	71.30" x 15.40" x 10.70"
WEIGHT	78.0 LBS

5 JMA WIRELESS – MX06FRO660-03
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
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BU #: **806359**

CROWN CASTLE SITE NAME
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EXISTING 100'-0"
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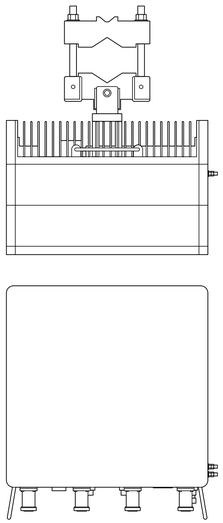
4/3/2024 | 12:50:50 PM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

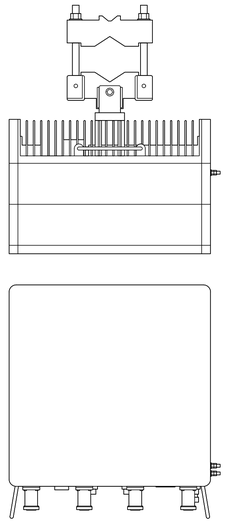
SHEET NUMBER: C-5.1

REVISION: 0



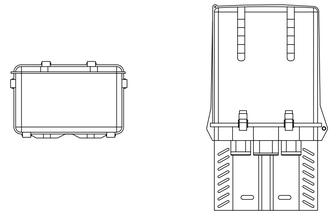
RADIO SPECS	
MANUFACTURER	SAMSUNG
MODEL #	RF4439D-25A
HxWxD	14.96" x 14.96" x 10.04"
WEIGHT	74.7 LBS

6 SAMSUNG – RF4439D-25A
SCALE: NOT TO SCALE



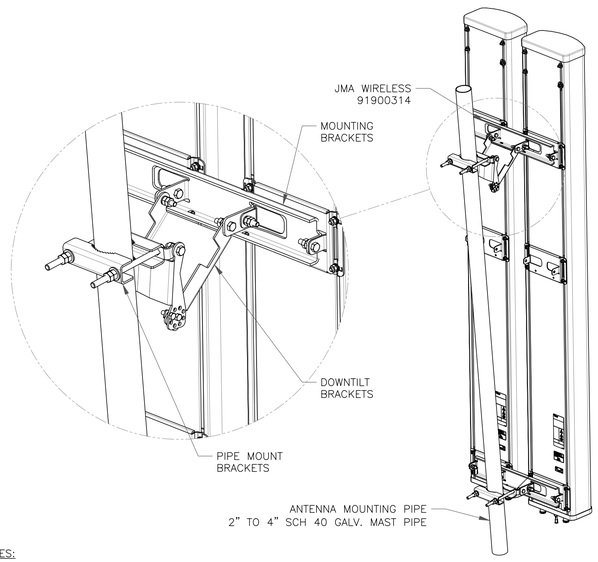
RADIO SPECS	
MANUFACTURER	SAMSUNG
MODEL #	RF4461D-13A
HxWxD	14.96" x 14.96" x 10.23"
WEIGHT	79.1 LBS

7 SAMSUNG – RF4461D-13A
SCALE: NOT TO SCALE



OVP SPECS	
MANUFACTURER	RAYCAP
MODEL #	RVZDC-6627-PF-48
HxWxD	29.5" x 16.5" x 12.6"
WEIGHT	32.0 LBS

8 RAYCAP – RVZDC-6627-PF-48
SCALE: NOT TO SCALE



NOTES:

- 91900314-03 KIT CONTAINS (3) MOUNTING BRACKETS.
- 91900314-02 KIT CONTAINS (2) MOUNTING BRACKETS.
- MECHANICAL TILT IN LINE WITH SPECIFIED ANTENNA
- SPACING ACHIEVED CAN BE 3/4", 2" OR 12". (EDGE-TO-EDGE) DEPENDANT ON ANTENNA MODEL

9 JMA WIRELESS – 91900314
SCALE: NOT TO SCALE

10 NOT USED
SCALE: NOT TO SCALE

11 NOT USED
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

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EXISTING 100'-0"
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4/3/2024 | 12:50:50 PM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

SHEET NUMBER: C-5.2

REVISION: 0

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

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

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

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

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

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

1 COLOR CODE MATRIX
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

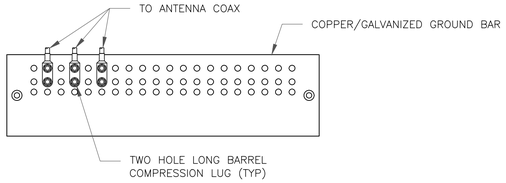
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by: Graham Andres 9575EC119634479...
STATE OF CONNECTICUT · GRAHAM M. ANDRES · 29538 · LICENSED PROFESSIONAL ENGINEER
4/3/2024 | 12:50:50 PM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

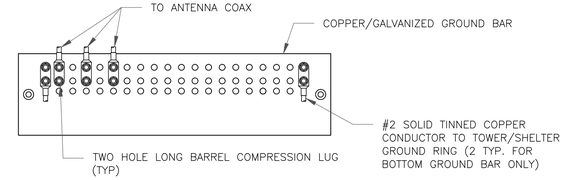
SHEET NUMBER: C-6
REVISION: 0



NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

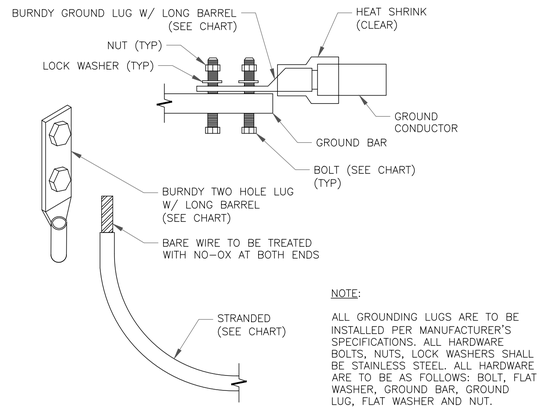


NOTES:

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

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

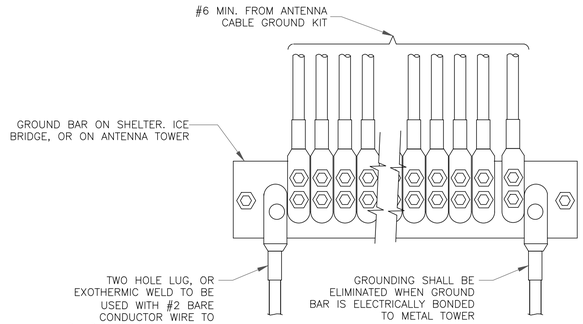
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" – 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" – 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" – 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" – 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" – 16 NC SS 2 BOLT



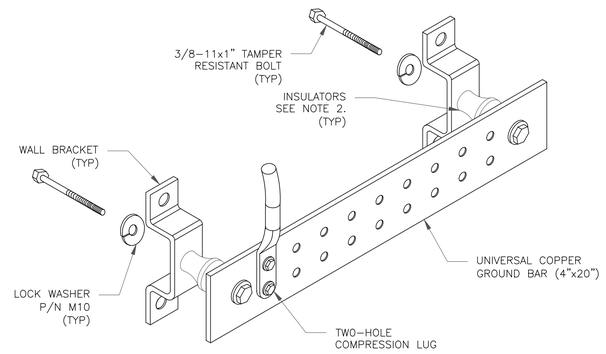
NOTE:

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.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

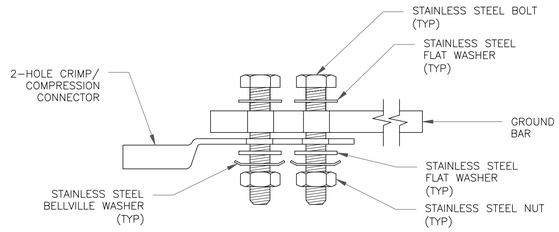


NOTES:

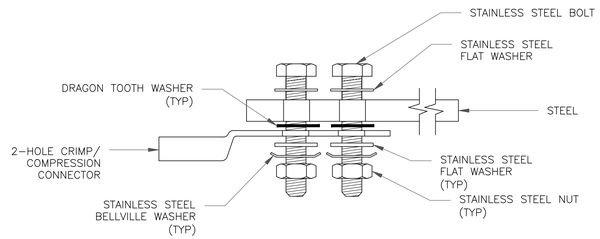
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

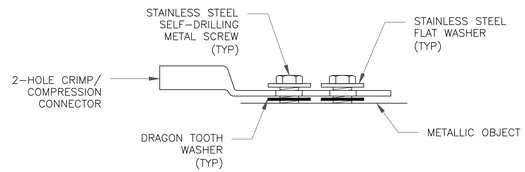
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

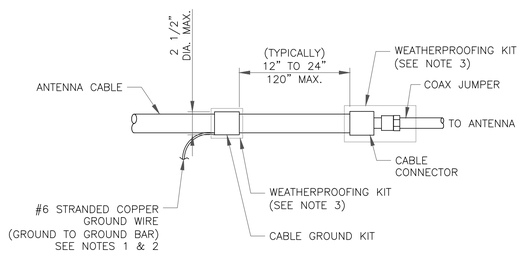


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

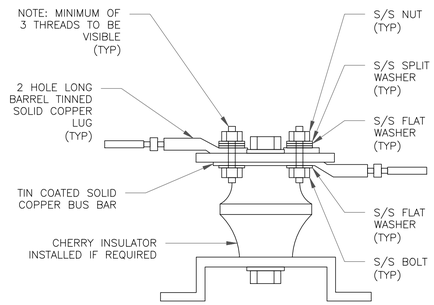
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



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.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000121962

BU #: **806359**

CROWN CASTLE SITE NAME
NHV 104 943122

423 ORONOQUE RD
MILFORD, CT 06460

EXISTING 100'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/3/24	BCV	CONSTRUCTION	GMA

DocuSigned by:
Graham Andres
9575EC119634479...

GRAHAM M. ANDRES
STATE OF CONNECTICUT
29538
LICENSED
PROFESSIONAL ENGINEER

4/3/2024 | 12:50:50 PM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.0001101

SHEET NUMBER: G-1

REVISION: 0

EXHIBIT E

Structural Analysis Report

Date: **February 19, 2024**

Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	5000121962
	Site Name:	Milford CT
Crown Castle Designation:	**BU Number:**	806359
	Site Name:	NHV 104 943122
	JDE Job Number:	2107955
	Work Order Number:	2283694
	Order Number:	662910 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	217723.930654
Site Data:	**423 Oronoque Road, Milford, New Haven County, CT 06460** **Latitude *41° 14' 16.23"*, Longitude *-73° 05' 10.00"*** **100 Foot - Monopole Tower**	

Tower Engineering Professionals 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:

LC5: Proposed Equipment Configuration **Sufficient Capacity – 62.1%**

This analysis utilizes an ultimate 3-second gust wind speed of 119 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: PP / CS

Respectfully submitted by:

Aaron T. Rucker, P.E.

02/19/2024

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4) ANALYSIS RESULTS
Table 4 - Section Capacity (Summary)
Table 5 - Tower Component Stresses vs. Capacity
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5) APPENDIX A
tnxTower Output

6) APPENDIX B
Base Level Drawing

7) APPENDIX C
Additional Calculations

1) INTRODUCTION

This tower is a 100-ft monopole tower designed by Valmont. The tower has been modified per reinforcement drawings prepared by Paul J Ford and Company in July of 2008.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	119 mph
Exposure Category:	C
Topographic Factor:	1.0
Ice Thickness:	1.0 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)
100.0	105.0	1	GPS	GPS_A	2 11 1	1-5/8 7/8 1/2
		6	Amphenol	BXA-171063-8BF-EDIN-X w/ Mount Pipe		
		3	Samsung Telecom.	MT6413-77A w/ Mount Pipe		
		6	JMA Wireless	MX06FRO660-03 w/ Mount Pipe		
		3	Samsung Telecom.	RF4439D-25A		
		3	Samsung Telecom.	RF4461D-13A		
		1	Raycap	RVZDC-6627-PF-48		
	100.0	3	Generic	Pipe 2.5 Sch40 X 96" Long Mount Pipe		
		1	VZWSmart	PLK1 Support Rail Corner Bracket		
		1	VZWSmart	PLK2 Support Rail Bracing Kit		
		1	VZWSmart	PLK5 Kicker Kit		
		1	Tower Mounts	Platform Mount [LP 602-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
95.0	95.0	1	Til-Tek	TA-2335-DAB-L-095	1	7/8
		1	Tower Mounts	Pipe Mount [PM 601-1]		
81.0	83.0	3	RFS Celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	3	1-5/8
		3	Ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	Ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	Ericsson	RADIO 4415 B25_TMO		
	81.0	1	Tower Mounts	Platform Mount [LP 303-1_HR-1]		
73.0	73.0	3	RFS Celwave	APXV18-206517S-C w/ Mount Pipe	6	1-5/8
48.0	48.0	1	Til-Tek	TA-2324-LHCP	1	1/2
		1	Tower Mounts	Side Arm Mount [SO 102-3]		
42.0	50.0	1	Trimble	57860-30	2	19/64
	49.0	1	Prodelin	1111		
	42.0	1	Tower Mounts	Side Arm Mount [SO 104-3]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Geotechnical Report	1256016	CCISites
Foundation Mapping Report	1256012	CCISites
Tower Manufacturer Drawings	1245431	CCISites
Tower Reinforcement Drawings	2280914	CCISites
Post-Modification Inspection	2419763	CCISites

3.1) Analysis Method

tnxTower (version 8.2.2.0), 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) The tower and structures were maintained in accordance with the TIA-222 Standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2, and the referenced drawings.
3) The following material grades were assumed:
   a) Concrete compressive strength: f'c = 3 ksi
   b) Foundation reinforcement (ties): fy = 40 ksi
   c) Foundation flexural reinforcement: fy = 60 ksi

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals 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)	ϕP_{allow} (k)	% Capacity	Pass / Fail
L1	100 - 46.833	Pole	TP33.26x23.43x0.3125	1	-13.93	1977.40	35.1	Pass
L2	46.833 - 0	Pole	TP41.3x31.6797x0.375	2	-26.11	3035.43	50.3	Pass
							Summary	
						Pole (L2)	50.3	Pass
						RATING =	**50.3**	**Pass**

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	50.4	Pass
1,2	Base Plate	-	41.3	Pass
1,2	Base Foundation Structural	-	62.1	Pass
1,2	Base Foundation Soil Interaction	-	21.6	Pass

Structure Rating (max from all components) =	**62.1%**

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

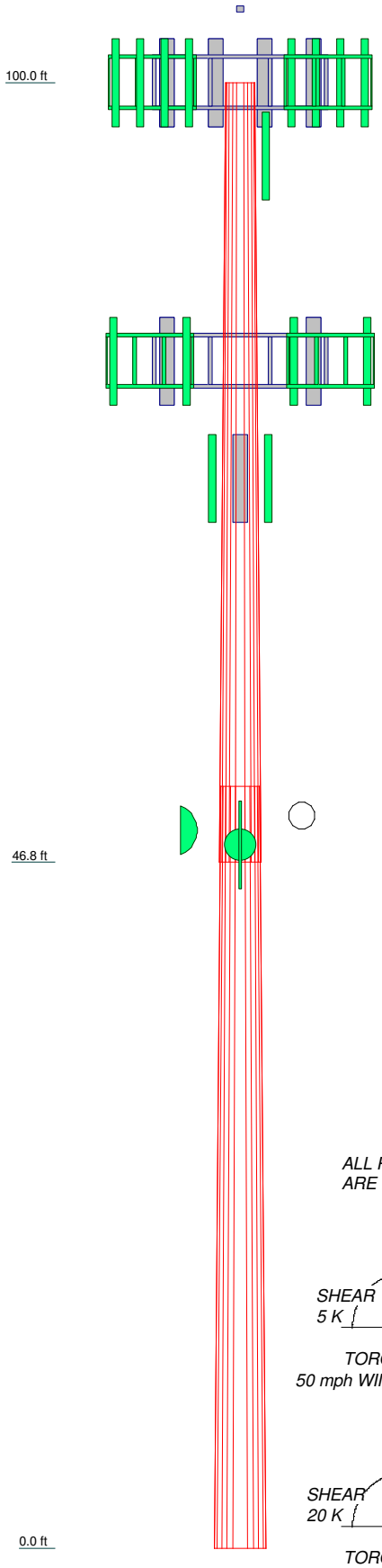
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	53.17	12	0.3125	5.17	23.4300	33.2600	A572-65	5.1
2	52.00	12	0.3750		31.6797	41.3000		7.7
								12.8



MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 119 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 50.3%

ALL REACTIONS ARE FACTORED

AXIAL 38 K

SHEAR 5 K *MOMENT 333 kip-ft*

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

AXIAL 26 K

SHEAR 20 K *MOMENT 1420 kip-ft*

TORQUE 1 kip-ft
REACTIONS - 119 mph WIND

Tower Engineering Professionals

Tower Engineering Professionals
326 Tryon Road
Raleigh. NC 27603
Phone: (919) 661-6351
FAX: (919) 661-6350

Job: ***NHV 104 943122 (BU 806359)***			
Project: ***TEP No. 217723.930654***			
Client: Crown Castle	Drawn by: MS	App'd:	
Code: TIA-222-H	Date: 02/19/24	Scale: NTS	
Path:		Dwg No. E-1	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:
Tower is located in New Haven County, Connecticut.
Tower base elevation above sea level: 162.00 ft.
Basic wind speed of 119 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	100.00-46.83	53.17	5.17	12	23.4300	33.2600	0.3125	1.2500	A572-65 (65 ksi)
L2	46.83-0.00	52.00		12	31.6797	41.3000	0.3750	1.5000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	24.1463	23.2620	1586.7717	8.2761	12.1367	130.7412	3215.2296	11.4488	5.4417	17.414
	34.3230	33.1534	4593.6642	11.7952	17.2287	266.6289	9308.0090	16.3171	8.0762	25.844
L2	33.6546	37.8004	4728.2541	11.2071	16.4101	288.1312	9580.7247	18.6042	7.4852	19.96
	42.6246	49.4169	10564.2618	14.6511	21.3934	493.8094	21406.0585	24.3215	10.0634	26.836

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 100.00-46.83				1	1	1			
L2 46.83-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
** CR 50 1873(1-5/8) **	A	No	Surface Ar (CaAa)	73.00 - 0.00	6	6	-0.250 -0.250	1.9800		0.83

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF4-50A(1/2)	A	No	No	Inside Pole	100.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
LDF5-50A(7/8)	A	No	No	Inside Pole	100.00 - 0.00	11	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
HB158-1-08U8-S8J 18(1-5/8)	A	No	No	Inside Pole	100.00 - 0.00	1	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
HB158-21U6S12-XXXM-01(1-5/8)	A	No	No	Inside Pole	100.00 - 0.00	1	No Ice	0.00	1.90
							1/2" Ice	0.00	1.90
							1" Ice	0.00	1.90
**									
HB158-21U6S24-xxM_TMO(1-5/8)	C	No	No	Inside Pole	81.00 - 0.00	3	No Ice	0.00	2.50
							1/2" Ice	0.00	2.50
							1" Ice	0.00	2.50
**									
7916A(19/64)	B	No	No	Inside Pole	42.00 - 0.00	2	No Ice	0.00	0.03
							1/2" Ice	0.00	0.03
							1" Ice	0.00	0.03
LDF4-50A(1/2)	B	No	No	Inside Pole	48.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
AVA5-50(7/8)	B	No	No	Inside Pole	95.00 - 0.00	1	No Ice	0.00	0.30
							1/2" Ice	0.00	0.30
							1" Ice	0.00	0.30
**									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	100.00-46.83	A	0.000	0.000	31.086	0.000	0.50
		B	0.000	0.000	0.000	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.26
L2	46.83-0.00	A	0.000	0.000	55.638	0.000	0.56
		B	0.000	0.000	0.000	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.35

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	100.00-46.83	A	0.919	0.000	0.000	44.873	0.000	0.81
		B		0.000	0.000	0.000	0.000	0.01
		C		0.000	0.000	0.000	0.000	0.26
L2	46.83-0.00	A	0.822	0.000	0.000	80.312	0.000	1.12
		B		0.000	0.000	0.000	0.000	0.02
		C		0.000	0.000	0.000	0.000	0.35

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	100.00-46.83	-3.3097	0.0000	-3.3085	0.0000
L2	46.83-0.00	-5.4987	0.0000	-5.4120	0.0000

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	8	CR 50 1873(1-5/8)	46.83 - 73.00	1.0000	1.0000
L2	8	CR 50 1873(1-5/8)	0.00 - 46.83	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
100									
GPS_A	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	0.11 0.21 0.28	0.11 0.21 0.28	0.00 0.00 0.01
(2) BXA-171063-8BF-EDIN-X w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	2.85 3.34 3.85	3.00 3.49 4.00	0.04 0.06 0.10
(2) BXA-171063-8BF-EDIN-X w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	2.85 3.34 3.85	3.00 3.49 4.00	0.04 0.06 0.10
(2) BXA-171063-8BF-EDIN-X w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	2.85 3.34 3.85	3.00 3.49 4.00	0.04 0.06 0.10
MT6413-77A w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	4.00 4.31 4.63	2.15 2.55 2.97	0.07 0.10 0.14
MT6413-77A w/ Mount Pipe	B	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	4.00 4.31 4.63	2.15 2.55 2.97	0.07 0.10 0.14
MT6413-77A w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	4.00 4.31 4.63	2.15 2.55 2.97	0.07 0.10 0.14
(2) MX06FRO660-03 w/ Mount Pipe	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	6.54 7.06 7.60	5.55 6.05 6.57	0.10 0.18 0.28
(2) MX06FRO660-03 w/	B	From	4.00	0.0000	100.00	No Ice	6.54	5.55	0.10

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Mount Pipe		Centroid-Leg	0.00			1/2" Ice	7.06	6.05	0.18
			5.00			1" Ice	7.60	6.57	0.28
(2) MX06FRO660-03 w/ Mount Pipe	C	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	6.54 7.06 7.60	5.55 6.05 6.57	0.10 0.18 0.28
RF4439D-25A	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.25 1.39 1.54	0.07 0.09 0.11
RF4439D-25A	B	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.25 1.39 1.54	0.07 0.09 0.11
RF4439D-25A	C	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.25 1.39 1.54	0.07 0.09 0.11
RF4461D-13A	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.28 1.42 1.57	0.08 0.10 0.12
RF4461D-13A	B	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.28 1.42 1.57	0.08 0.10 0.12
RF4461D-13A	C	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.87 2.03 2.21	1.28 1.42 1.57	0.08 0.10 0.12
RVZDC-6627-PF-48	A	From Centroid-Leg	4.00 0.00 5.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	3.79 4.04 4.30	2.51 2.73 2.95	0.03 0.06 0.10
2.4" Dia x 8-ft Mount Pipe	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
2.4" Dia x 8-ft Mount Pipe	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
2.4" Dia x 8-ft Mount Pipe	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.90 2.73 3.40	1.90 2.73 3.40	0.03 0.04 0.06
L3x3x3/8x4' Horizontal	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.20 1.49 1.78	0.07 0.11 0.16	0.03 0.04 0.06
L3x3x3/8x4' Horizontal	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.20 1.49 1.78	0.07 0.11 0.16	0.03 0.04 0.06
L3x3x3/8x4' Horizontal	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	1.20 1.49 1.78	0.07 0.11 0.16	0.03 0.04 0.06
L 3x3x1/4 (8' Long)	A	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	4.00 4.92 5.61	4.00 4.92 5.61	0.04 0.06 0.09
L 3x3x1/4 (8' Long)	B	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	4.00 4.92 5.61	4.00 4.92 5.61	0.04 0.06 0.09
L 3x3x1/4 (8' Long)	C	From Centroid-Leg	4.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" Ice	4.00 4.92 5.61	4.00 4.92 5.61	0.04 0.06 0.09
Platform Mount [LP 602-1_KCKR]	C	None		0.0000	100.00	No Ice 1/2" Ice 1" Ice	39.60 47.40 54.70	39.40 48.00 55.60	1.62 2.38 3.27

95

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
TA-2335-DAB-L-095	B	From Leg	1.00 0.00 0.00	0.0000	95.00	No Ice 1/2" Ice 1" Ice	7.14 7.68 8.23	2.08 2.48 2.91	0.03 0.08 0.12
Pipe Mount [PM 601-1]	B	From Leg	0.50 0.00 0.00	0.0000	95.00	No Ice 1/2" Ice 1" Ice	1.32 1.58 1.84	1.32 1.58 1.84	0.07 0.08 0.09
81									
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	B	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.18 0.31 0.45
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
RADIO 4449 B71 B85A_T-MOBILE	A	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4449 B71 B85A_T-MOBILE	B	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4449 B71 B85A_T-MOBILE	C	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4415 B25_TMO	A	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.86 2.03 2.20	0.87 1.00 1.13	0.05 0.06 0.08
RADIO 4415 B25_TMO	B	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.86 2.03 2.20	0.87 1.00 1.13	0.05 0.06 0.08
RADIO 4415 B25_TMO	C	From Centroid-Face	4.00 0.00 2.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.86 2.03 2.20	0.87 1.00 1.13	0.05 0.06 0.08
2.4" Dia x 6-ft Pipe	A	From Centroid-Face	4.00 0.00 0.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
2.4" Dia x 6-ft Pipe	B	From Centroid-Face	4.00 0.00 0.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
2.4" Dia x 6-ft Pipe	C	From Centroid-Face	4.00 0.00 0.00	0.0000	81.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
Platform Mount [LP 303-1_HR-1]	C	None		0.0000	81.00	No Ice 1/2" Ice 1" Ice	17.09 21.47 25.72	17.09 21.47 25.72	1.50 1.88 2.35
Side Arm Mount [SO 701-3]	C	None		0.0000	81.00	No Ice 1/2" Ice	3.02 4.18	3.02 4.18	0.20 0.24

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	5.33	5.33	0.28
73									
APXV18-206517S-C w/ Mount Pipe	A	From Leg	1.00 0.00 0.00	0.0000	73.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	0.05 0.09 0.15
APXV18-206517S-C w/ Mount Pipe	B	From Leg	1.00 0.00 0.00	0.0000	73.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	0.05 0.09 0.15
APXV18-206517S-C w/ Mount Pipe	C	From Leg	1.00 0.00 0.00	0.0000	73.00	No Ice 1/2" Ice 1" Ice	3.79 4.38 4.99	3.16 3.75 4.35	0.05 0.09 0.15
48									
2.4" Dia x 6-ft Pipe	C	From Face	1.00 0.00 0.00	0.0000	48.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
Side Arm Mount [SO 102-3]	C	None		0.0000	48.00	No Ice 1/2" Ice 1" Ice	3.60 4.18 4.75	3.60 4.18 4.75	0.07 0.10 0.14
42									
57860-30	A	From Leg	1.00 0.00 8.00	0.0000	42.00	No Ice 1/2" Ice 1" Ice	0.07 0.10 0.14	0.07 0.10 0.14	0.00 0.00 0.00
2.4" Dia x 6-ft Pipe	A	From Leg	1.00 0.00 0.00	0.0000	42.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
2.4" Dia x 6-ft Pipe	C	From Leg	2.00 0.00 0.00	0.0000	42.00	No Ice 1/2" Ice 1" Ice	1.43 1.93 2.30	1.43 1.93 2.30	0.02 0.03 0.05
Side Arm Mount [SO 104-3]	C	None		0.0000	42.00	No Ice 1/2" Ice 1" Ice	2.62 3.30 3.98	2.62 3.30 3.98	0.29 0.41 0.53
***									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
48											
TA-2324-LHCP	C	Paraboloid w/Radome	From Face	1.00 0.00 0.00	18.0000		48.00	2.17	No Ice 1/2" Ice 1" Ice	3.69 3.98 4.27	0.03 0.05 0.07
42											
1111	C	Paraboloid w/o Radome	From Leg	2.00 0.00 7.00	-24.0000		42.00	3.33	No Ice 1/2" Ice 1" Ice	8.71 9.15 9.59	0.04 0.09 0.13
***											

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	100 - 46.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-22.54	0.15	0.52
			Max. Mx	8	-13.93	-513.04	-4.06
			Max. My	2	-13.93	4.27	511.39
			Max. Vy	8	14.10	-513.04	-4.06
			Max. Vx	2	-14.04	4.27	511.39
			Max. Torque	25			0.74
L2	46.833 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.54	1.91	0.77
			Max. Mx	8	-26.11	-1414.66	12.75
			Max. My	2	-26.11	-5.59	1416.11
			Max. Vy	8	19.73	-1414.66	12.75
			Max. Vx	2	-19.79	-5.59	1416.11
			Max. Torque	25			0.88

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	38	37.54	2.22	3.98
	Max. H_x	20	26.13	19.54	0.07
	Max. H_z	2	26.13	-0.22	19.77
	Max. M_x	2	1416.11	-0.22	19.77
	Max. M_z	8	1414.66	-19.71	0.35
	Max. Torsion	25	0.88	9.57	17.27
	Min. Vert	19	19.60	16.95	-9.72
	Min. H_x	8	26.13	-19.71	0.35
	Min. H_z	14	26.13	-0.09	-19.57
	Min. M_x	14	-1405.84	-0.09	-19.57
	Min. M_z	20	-1407.27	19.54	0.07
	Min. Torsion	15	-0.78	-0.09	-19.57

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	21.77	0.00	0.00	-0.15	0.51	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	26.13	0.22	-19.77	-1416.11	-5.59	-0.51
0.9 Dead+1.0 Wind 0 deg - No Ice	19.60	0.22	-19.77	-1407.19	-5.75	-0.51
1.2 Dead+1.0 Wind 30 deg - No Ice	26.13	9.93	-17.11	-1223.84	-706.36	-0.59
0.9 Dead+1.0 Wind 30 deg - No Ice	19.60	9.93	-17.11	-1216.13	-702.11	-0.59
1.2 Dead+1.0 Wind 60 deg - No Ice	26.13	17.03	-10.02	-710.86	-1220.53	-0.79
0.9 Dead+1.0 Wind 60 deg - No Ice	19.60	17.03	-10.02	-706.39	-1213.03	-0.79
1.2 Dead+1.0 Wind 90 deg - No Ice	26.13	19.71	-0.35	-12.75	-1414.66	-0.78

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 90 deg - No Ice	19.60	19.71	-0.35	-12.68	-1405.93	-0.78
1.2 Dead+1.0 Wind 120 deg - No Ice	26.13	16.98	9.65	700.48	-1222.69	0.18
0.9 Dead+1.0 Wind 120 deg - No Ice	19.60	16.98	9.65	696.10	-1215.15	0.18
1.2 Dead+1.0 Wind 150 deg - No Ice	26.13	9.77	16.96	1220.30	-706.97	0.69
0.9 Dead+1.0 Wind 150 deg - No Ice	19.60	9.77	16.96	1212.67	-702.66	0.70
1.2 Dead+1.0 Wind 180 deg - No Ice	26.13	0.09	19.57	1405.84	-8.33	0.78
0.9 Dead+1.0 Wind 180 deg - No Ice	19.60	0.09	19.57	1397.05	-8.42	0.78
1.2 Dead+1.0 Wind 210 deg - No Ice	26.13	-9.77	16.96	1215.70	700.00	0.49
0.9 Dead+1.0 Wind 210 deg - No Ice	19.60	-9.77	16.96	1208.11	695.46	0.49
1.2 Dead+1.0 Wind 240 deg - No Ice	26.13	-16.95	9.72	695.65	1217.96	-0.07
0.9 Dead+1.0 Wind 240 deg - No Ice	19.60	-16.95	9.72	691.33	1210.15	-0.07
1.2 Dead+1.0 Wind 270 deg - No Ice	26.13	-19.54	-0.07	-8.53	1407.27	-0.34
0.9 Dead+1.0 Wind 270 deg - No Ice	19.60	-19.54	-0.07	-8.42	1398.26	-0.34
1.2 Dead+1.0 Wind 300 deg - No Ice	26.13	-16.93	-9.75	-705.51	1221.74	-0.26
0.9 Dead+1.0 Wind 300 deg - No Ice	19.60	-16.93	-9.75	-701.01	1213.90	-0.26
1.2 Dead+1.0 Wind 330 deg - No Ice	26.13	-9.57	-17.27	-1236.15	698.08	-0.87
0.9 Dead+1.0 Wind 330 deg - No Ice	19.60	-9.57	-17.27	-1228.36	693.50	-0.88
1.2 Dead+1.0 Ice+1.0 Temp	37.54	0.00	0.00	-0.77	1.91	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	37.54	0.04	-4.56	-331.35	0.71	-0.09
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	37.54	2.29	-3.95	-286.59	-163.14	-0.11
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	37.54	3.93	-2.31	-166.65	-283.29	-0.15
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	37.54	4.55	-0.07	-3.31	-328.39	-0.15
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	37.54	3.92	2.24	162.98	-283.64	0.03
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	37.54	2.26	3.92	284.29	-163.15	0.13
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	37.54	0.02	4.52	327.80	0.28	0.14
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	37.54	-2.26	3.92	283.46	165.60	0.09
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	37.54	-3.92	2.25	162.15	286.47	-0.01
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	37.54	-4.52	-0.01	-2.37	330.64	-0.06
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	37.54	-3.91	-2.25	-165.51	287.15	-0.05
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	37.54	-2.22	-3.98	-288.92	165.13	-0.17
Dead+Wind 0 deg - Service	21.77	0.05	-4.73	-337.92	-0.97	-0.12
Dead+Wind 30 deg - Service	21.77	2.38	-4.10	-292.05	-168.13	-0.14

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 60 deg - Service	21.77	4.08	-2.40	-169.69	-290.78	-0.19
Dead+Wind 90 deg - Service	21.77	4.72	-0.08	-3.16	-337.09	-0.19
Dead+Wind 120 deg - Service	21.77	4.07	2.31	166.99	-291.29	0.04
Dead+Wind 150 deg - Service	21.77	2.34	4.06	290.99	-168.27	0.16
Dead+Wind 180 deg - Service	21.77	0.02	4.69	335.25	-1.61	0.19
Dead+Wind 210 deg - Service	21.77	-2.34	4.06	289.89	167.36	0.12
Dead+Wind 240 deg - Service	21.77	-4.06	2.33	165.84	290.91	-0.01
Dead+Wind 270 deg - Service	21.77	-4.68	-0.02	-2.14	336.07	-0.08
Dead+Wind 300 deg - Service	21.77	-4.05	-2.33	-168.40	291.81	-0.06
Dead+Wind 330 deg - Service	21.77	-2.29	-4.13	-294.99	166.89	-0.21

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-21.77	0.00	0.00	21.77	0.00	0.000%
2	0.22	-26.13	-19.77	-0.22	26.13	19.77	0.000%
3	0.22	-19.60	-19.77	-0.22	19.60	19.77	0.000%
4	9.93	-26.13	-17.11	-9.93	26.13	17.11	0.000%
5	9.93	-19.60	-17.11	-9.93	19.60	17.11	0.000%
6	17.03	-26.13	-10.02	-17.03	26.13	10.02	0.000%
7	17.03	-19.60	-10.02	-17.03	19.60	10.02	0.000%
8	19.71	-26.13	-0.35	-19.71	26.13	0.35	0.000%
9	19.71	-19.60	-0.35	-19.71	19.60	0.35	0.000%
10	16.98	-26.13	9.65	-16.98	26.13	-9.65	0.000%
11	16.98	-19.60	9.65	-16.98	19.60	-9.65	0.000%
12	9.77	-26.13	16.96	-9.77	26.13	-16.96	0.000%
13	9.77	-19.60	16.96	-9.77	19.60	-16.96	0.000%
14	0.09	-26.13	19.57	-0.09	26.13	-19.57	0.000%
15	0.09	-19.60	19.57	-0.09	19.60	-19.57	0.000%
16	-9.77	-26.13	16.96	9.77	26.13	-16.96	0.000%
17	-9.77	-19.60	16.96	9.77	19.60	-16.96	0.000%
18	-16.95	-26.13	9.72	16.95	26.13	-9.72	0.000%
19	-16.95	-19.60	9.72	16.95	19.60	-9.72	0.000%
20	-19.54	-26.13	-0.07	19.54	26.13	0.07	0.000%
21	-19.54	-19.60	-0.07	19.54	19.60	0.07	0.000%
22	-16.93	-26.13	-9.75	16.93	26.13	9.75	0.000%
23	-16.93	-19.60	-9.75	16.93	19.60	9.75	0.000%
24	-9.57	-26.13	-17.27	9.57	26.13	17.27	0.000%
25	-9.57	-19.60	-17.27	9.57	19.60	17.27	0.000%
26	0.00	-37.54	0.00	0.00	37.54	0.00	0.000%
27	0.04	-37.54	-4.56	-0.04	37.54	4.56	0.000%
28	2.29	-37.54	-3.95	-2.29	37.54	3.95	0.000%
29	3.93	-37.54	-2.31	-3.93	37.54	2.31	0.000%
30	4.55	-37.54	-0.07	-4.55	37.54	0.07	0.000%
31	3.92	-37.54	2.24	-3.92	37.54	-2.24	0.000%
32	2.26	-37.54	3.92	-2.26	37.54	-3.92	0.000%
33	0.02	-37.54	4.52	-0.02	37.54	-4.52	0.000%
34	-2.26	-37.54	3.92	2.26	37.54	-3.92	0.000%
35	-3.92	-37.54	2.25	3.92	37.54	-2.25	0.000%
36	-4.52	-37.54	-0.01	4.52	37.54	0.01	0.000%
37	-3.91	-37.54	-2.25	3.91	37.54	2.25	0.000%
38	-2.22	-37.54	-3.98	2.22	37.54	3.98	0.000%
39	0.05	-21.77	-4.73	-0.05	21.77	4.73	0.000%
40	2.38	-21.77	-4.10	-2.38	21.77	4.10	0.000%
41	4.08	-21.77	-2.40	-4.08	21.77	2.40	0.000%
42	4.72	-21.77	-0.08	-4.72	21.77	0.08	0.000%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
43	4.07	-21.77	2.31	-4.07	21.77	-2.31	0.000%
44	2.34	-21.77	4.06	-2.34	21.77	-4.06	0.000%
45	0.02	-21.77	4.69	-0.02	21.77	-4.69	0.000%
46	-2.34	-21.77	4.06	2.34	21.77	-4.06	0.000%
47	-4.06	-21.77	2.33	4.06	21.77	-2.33	0.000%
48	-4.68	-21.77	-0.02	4.68	21.77	0.02	0.000%
49	-4.05	-21.77	-2.33	4.05	21.77	2.33	0.000%
50	-2.29	-21.77	-4.13	2.29	21.77	4.13	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00002524
3	Yes	4	0.00000001	0.00001495
4	Yes	4	0.00000001	0.00093335
5	Yes	4	0.00000001	0.00058744
6	Yes	4	0.00000001	0.00098266
7	Yes	4	0.00000001	0.00061963
8	Yes	4	0.00000001	0.00007648
9	Yes	4	0.00000001	0.00004882
10	Yes	4	0.00000001	0.00095975
11	Yes	4	0.00000001	0.00060461
12	Yes	4	0.00000001	0.00096204
13	Yes	4	0.00000001	0.00060580
14	Yes	4	0.00000001	0.00003108
15	Yes	4	0.00000001	0.00001910
16	Yes	4	0.00000001	0.00095370
17	Yes	4	0.00000001	0.00060174
18	Yes	4	0.00000001	0.00093639
19	Yes	4	0.00000001	0.00059050
20	Yes	4	0.00000001	0.00002775
21	Yes	4	0.00000001	0.00001655
22	Yes	4	0.00000001	0.00097707
23	Yes	4	0.00000001	0.00061538
24	Yes	4	0.00000001	0.00098352
25	Yes	4	0.00000001	0.00061906
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00030155
28	Yes	4	0.00000001	0.00032078
29	Yes	4	0.00000001	0.00032085
30	Yes	4	0.00000001	0.00029964
31	Yes	4	0.00000001	0.00032066
32	Yes	4	0.00000001	0.00032094
33	Yes	4	0.00000001	0.00029890
34	Yes	4	0.00000001	0.00032012
35	Yes	4	0.00000001	0.00032054
36	Yes	4	0.00000001	0.00030152
37	Yes	4	0.00000001	0.00032494
38	Yes	4	0.00000001	0.00032556
39	Yes	4	0.00000001	0.00000001
40	Yes	4	0.00000001	0.00001497
41	Yes	4	0.00000001	0.00001782
42	Yes	4	0.00000001	0.00000001
43	Yes	4	0.00000001	0.00001564

44	Yes	4	0.00000001	0.00001573
45	Yes	4	0.00000001	0.00000001
46	Yes	4	0.00000001	0.00001648
47	Yes	4	0.00000001	0.00001539
48	Yes	4	0.00000001	0.00000001
49	Yes	4	0.00000001	0.00001655
50	Yes	4	0.00000001	0.00001718

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	100 - 46.833	8.310	50	0.6671	0.0006
L2	52 - 0	2.497	50	0.4273	0.0004

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
100.00	GPS_A	50	8.310	0.6671	0.0011	52554
95.00	TA-2335-DAB-L-095	50	7.618	0.6460	0.0010	52554
81.00	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	50	5.728	0.5846	0.0008	13830
73.00	APXV18-206517S-C w/ Mount Pipe	50	4.717	0.5465	0.0007	9732
49.00	1111	50	2.249	0.4073	0.0005	5822
48.00	TA-2324-LHCP	50	2.170	0.4004	0.0005	5932
42.00	57860-30	50	1.739	0.3574	0.0004	6777

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	100 - 46.833	34.832	24	2.7976	0.0022
L2	52 - 0	10.466	24	1.7920	0.0018

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
100.00	GPS_A	24	34.832	2.7976	0.0049	12579
95.00	TA-2335-DAB-L-095	24	31.930	2.7089	0.0046	12579
81.00	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	24	24.009	2.4515	0.0037	3309

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
73.00	APXV18-206517S-C w/ Mount Pipe	24	19.769	2.2918	0.0032	2328
49.00	1111	24	9.425	1.7079	0.0019	1390
48.00	TA-2324-LHCP	24	9.096	1.6790	0.0019	1417
42.00	57860-30	24	7.291	1.4986	0.0017	1618

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	100 - 46.833 (1)	TP33.26x23.43x0.3125	53.17	0.00	0.0	32.1921	-13.93	1883.24	0.007
L2	46.833 - 0 (2)	TP41.3x31.6797x0.375	52.00	0.00	0.0	49.4169	-26.11	2890.89	0.009

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	100 - 46.833 (1)	TP33.26x23.43x0.3125	516.35	1431.78	0.361	0.00	1431.78	0.000
L2	46.833 - 0 (2)	TP41.3x31.6797x0.375	1419.64	2740.08	0.518	0.00	2740.08	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	100 - 46.833 (1)	TP33.26x23.43x0.3125	14.17	564.97	0.025	0.43	1589.90	0.000
L2	46.833 - 0 (2)	TP41.3x31.6797x0.375	19.76	867.27	0.023	0.87	3122.06	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	100 - 46.833	0.007	0.361	0.000	0.025	0.000	0.369	1.050	

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L2	(1) 46.833 - 0 (2)	0.009	0.518	0.000	0.023	0.000	0.528	1.050	

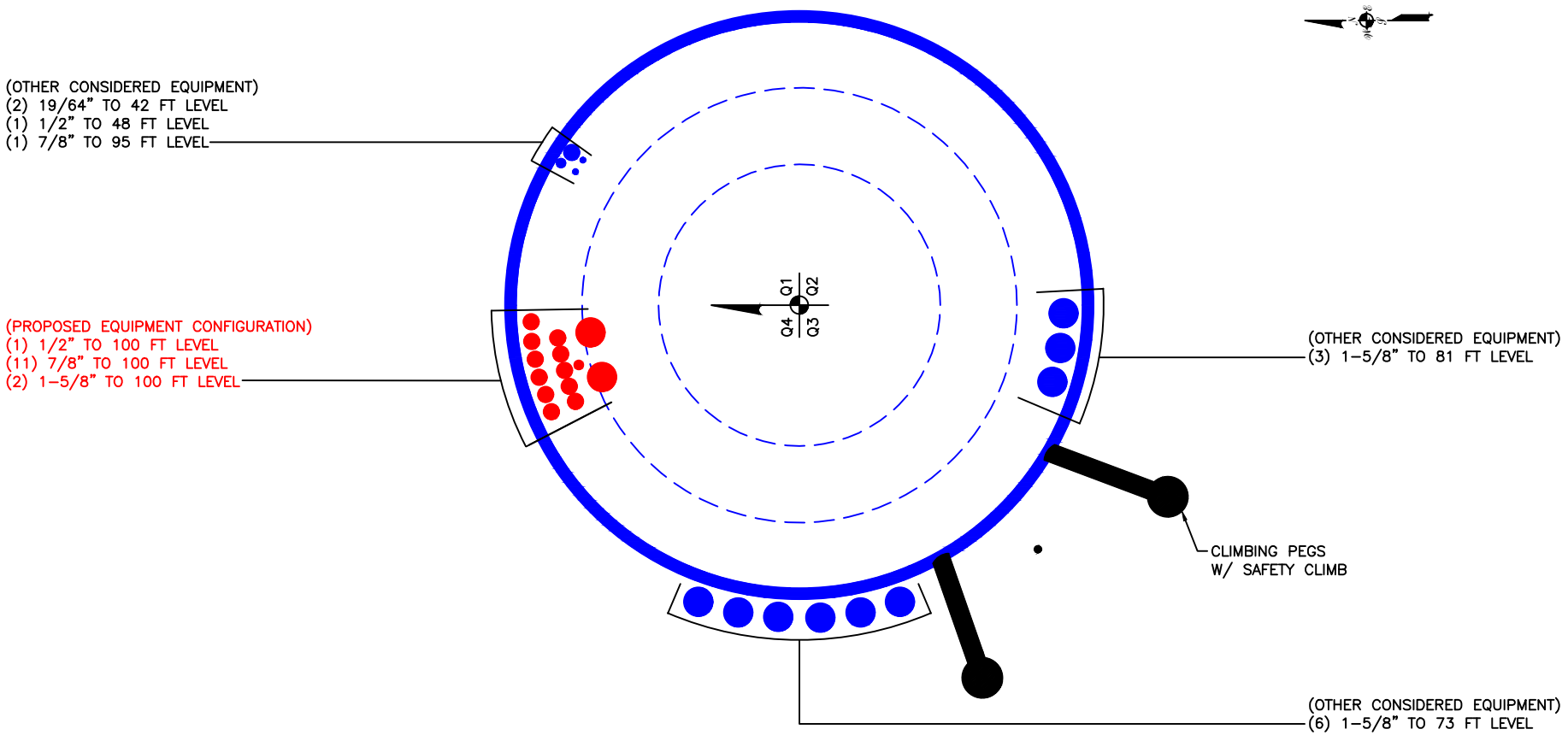
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	100 - 46.833	Pole	TP33.26x23.43x0.3125	1	-13.93	1977.40	35.1	Pass
L2	46.833 - 0	Pole	TP41.3x31.6797x0.375	2	-26.11	3035.43	50.3	Pass
							Summary	
						Pole (L2)	50.3	Pass
						RATING =	**50.3**	**Pass**

Program Version 8.2.2.0

APPENDIX B

BASE LEVEL DRAWING


(OTHER CONSIDERED EQUIPMENT)
(2) 19/64" TO 42 FT LEVEL
(1) 1/2" TO 48 FT LEVEL
(1) 7/8" TO 95 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(1) 1/2" TO 100 FT LEVEL
(11) 7/8" TO 100 FT LEVEL
(2) 1-5/8" TO 100 FT LEVEL
Q1
Q2
Q3
Q4
(OTHER CONSIDERED EQUIPMENT)
(3) 1-5/8" TO 81 FT LEVEL
CLIMBING PEGS
W/ SAFETY CLIMB
(OTHER CONSIDERED EQUIPMENT)
(6) 1-5/8" TO 73 FT LEVEL

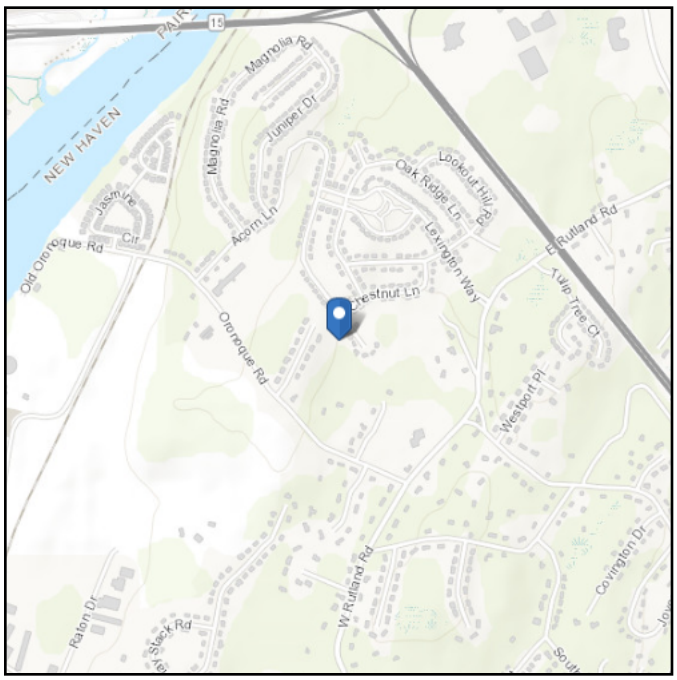
APPENDIX C

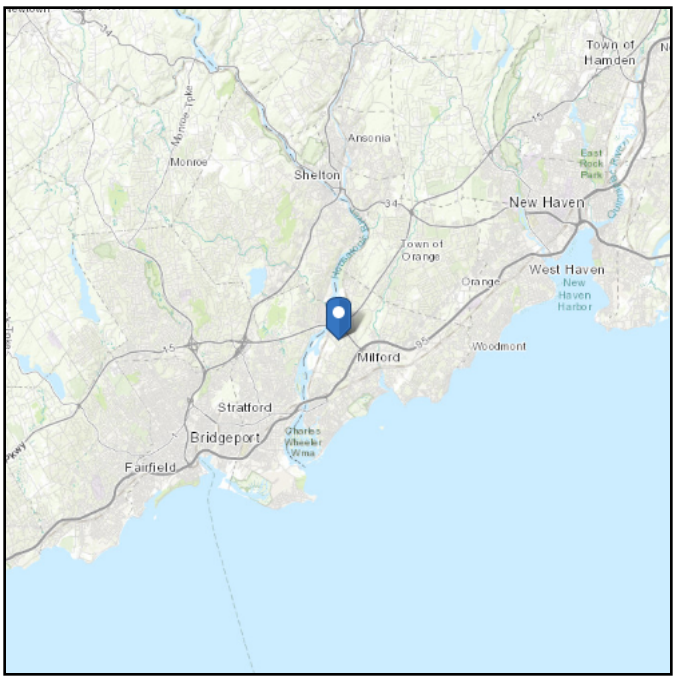
ADDITIONAL CALCULATIONS

ASCE Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Latitude:**	41.237842
Risk Category:	II	**Longitude:**	-73.086111
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	162.14490142879416 ft (NAVD 88)





Wind

Results:

Wind Speed	119 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed:	Wed Feb 14 2024

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

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

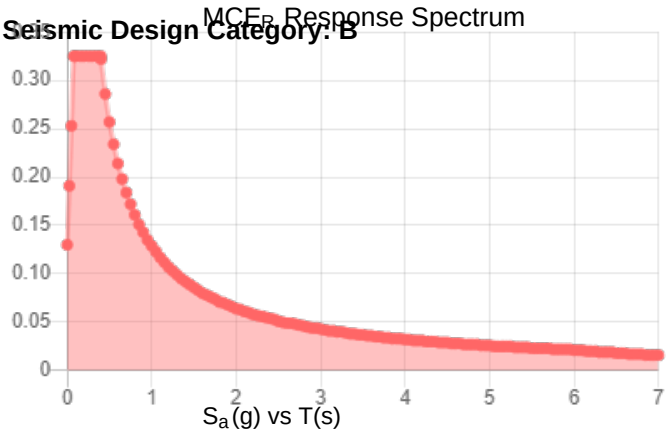
Seismic

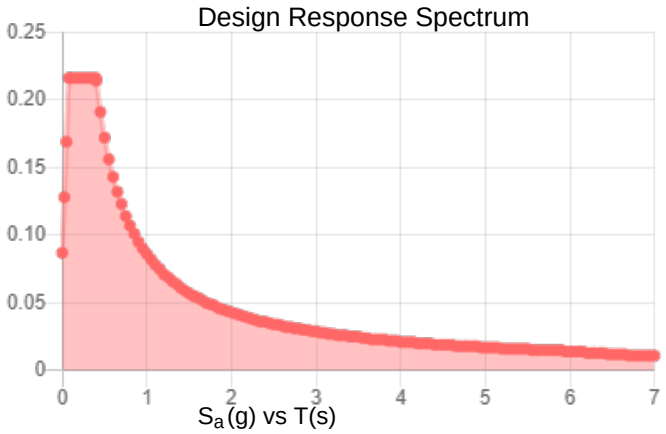
Site Soil Class: D - Default (see Section 11.4.3)

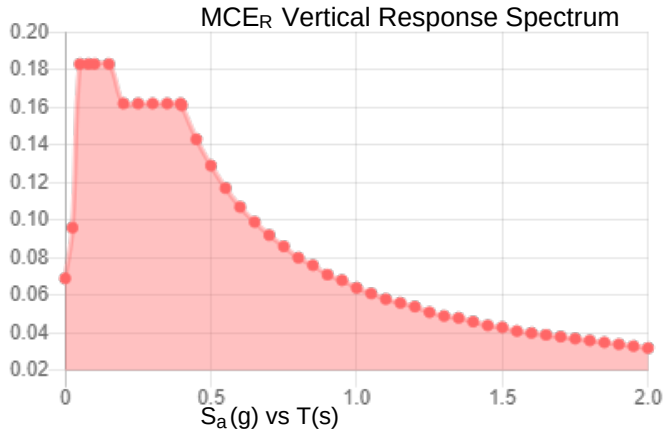
Results:

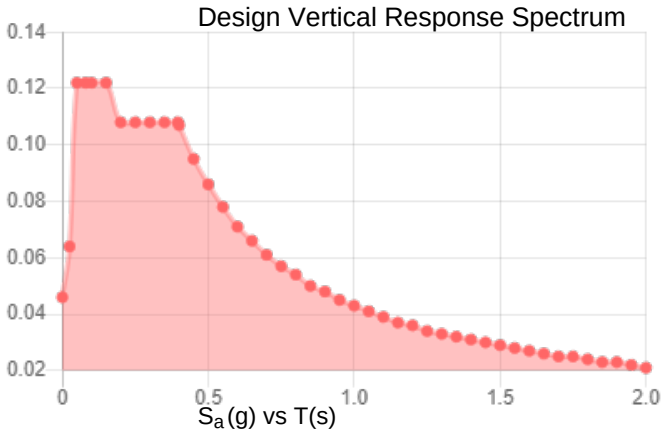
S_S :	0.203	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.114
F_v :	2.4	PGA_M :	0.18
S_{MS} :	0.325	F_{PGA} :	1.571
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.216	C_v :	0.706

Seismic Design Category: B









Data Accessed: **Wed Feb 14 2024**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Wed Feb 14 2024

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

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

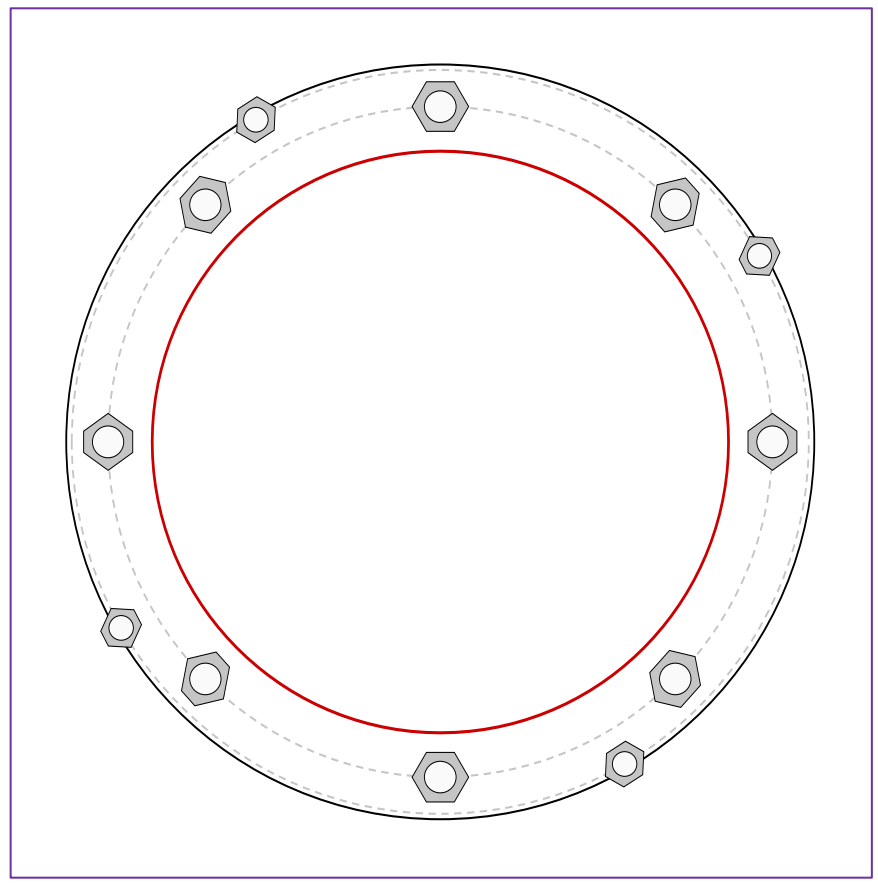
Monopole Base Plate Connection

Site Info	
BU #	806359
Site Name	NHV 104 943122
Order #	662910 Rev. 0

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

Applied Loads	
Moment (kip-ft)	1419.64
Axial Force (kips)	26.11
Shear Force (kips)	19.76

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (8) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 47.58" BC

GROUP 2: (4) 1-3/4" ø bolts (Dywidag A722 N; Fy=120 ksi, Fu=125 ksi) on 52.8" BC

Base Plate Data

53.58" OD x 2.5" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

N/A

Pole Data

41.3" x 0.375" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

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

GROUP 1:

Pu_t = 129.01	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.91	ϕVn = 149.1	**50.4%**
Mu = n/a	ϕMn = n/a	**Pass**

GROUP 2:

Pu_t = 83.86	ϕPn_t = 178.13	**Stress Rating**
Vu = 1.12	ϕVn = 112.75	**44.8%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	23.42	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**41.3%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

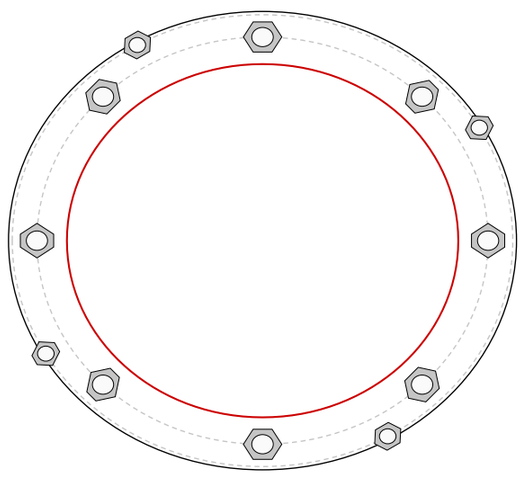
note: Bending interaction not considered when Grout Considered = "Yes"

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

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	l_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	2.25	A615-75	47.58	0.5	2	N-Included		No
2	1	45	2.25	A615-75	47.58	0.5	2	N-Included		No
3	1	90	2.25	A615-75	47.58	0.5	2	N-Included		No
4	1	135	2.25	A615-75	47.58	0.5	2	N-Included		No
5	1	180	2.25	A615-75	47.58	0.5	2	N-Included		No
6	1	225	2.25	A615-75	47.58	0.5	2	N-Included		No
7	1	270	2.25	A615-75	47.58	0.5	2	N-Included		No
8	1	315	2.25	A615-75	47.58	0.5	2	N-Included		No
9	2	30	1.75	Dywidag A722	52.8	0.5	2	N-Included		No
10	2	120	1.75	Dywidag A722	52.8	0.5	2	N-Included		No
11	2	210	1.75	Dywidag A722	52.8	0.5	2	N-Included		No
12	2	300	1.75	Dywidag A722	52.8	0.5	2	N-Included		No

Plot Graphic



Drilled Pier Foundation

BU # :	806359
Site Name:	NHV 104 943122
Order Number:	662910 Rev. 0
TIA-222 Revison:	H
Tower Type:	Monopole

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

Go to Soil Calculations

Applied Loads	Comp.	Uplift
Moment (kip-ft)	1419.64	
Axial Force (kips)	26.13	
Shear Force (kips)	19.74	

Material Properties			Rebar 2, Fy Override (ksi)	Rebar 3, Fy Override (ksi)
Concrete Strength, f'c:	3	ksi		
Rebar Strength, Fy:	60	ksi		
Tie Yield Strength, Fyt:	40	ksi		

Pier Design Data		
Depth	13.7	ft
Ext. Above Grade	1.3	ft
Pier Section 1		
From 1.3' above grade to 13.7' below grade		
Pier Diameter	7.8	ft
Rebar Quantity	20	
Rebar Size	11	
Clear Cover to Ties	3	in
Tie Size	6	
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)	7.92	-
Soil Safety Factor	5.85	-
Max Moment (kip-ft)	1643.00	-
Rating*	*21.6%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	727.30	-
End Bearing (kips)	1502.05	-
Weight of Concrete (kips)	129.02	-
Total Capacity (kips)	2229.35	-
Axial (kips)	155.15	-
Rating*	*6.6%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	7.73	-
Critical Moment (kip-ft)	1642.78	-
Critical Moment Capacity	5752.93	-
Rating*	*27.2%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	12.02	-
Critical Shear (kip)	540.43	-
Critical Shear Capacity	829.26	-
Rating*	*62.1%*	-

Structural Foundation Rating*	**62.1%**
Soil Interaction Rating*	**21.6%**

*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. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	4	4	105	150	0		0.000	0.000	0.00	0.00			Cohesionless
2	4	6	2	105	150		29	0.000	0.000	0.62	0.62			Cohesionless
3	6	8.3	2.3	135	150		40	0.000	0.000	2.58	2.58			Cohesionless
4	8.3	13.7	5.4	180	150	20		9.000	9.000	6.00	6.00	40		Cohesive

EXHIBIT F

Mount Analysis Report

Colliers Engineering & Design, Architecture, Landscaping
Architecture, Surveying, CT, P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10215323
Colliers Engineering & Design Project #: 21777070 (Rev. 1)

December 13, 2023

Site Information	*Site ID:*	*5000121962-VZW / MILFORD CT*
	Site Name:	*MILFORD CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*423 Oronoque Rd* *Milford, Connecticut 06460* *New Haven County*
	Latitude:	*41.237875°*
	Longitude:	*-73.086219°*
Structure Information	*Tower Type:*	*108-Ft Monopole*
	Mount Type:	*12.83-Ft Platform*

FUZE ID # 16231875

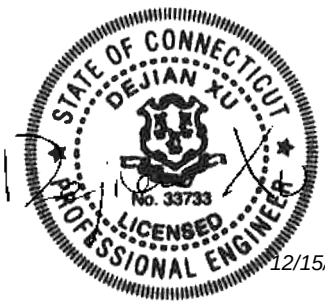
Analysis Results

Platform: **45.2% Pass w/ Modifications***

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Selene Chen



12/15/2023

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS Site ID: 324367, dated November 10, 2023*
Mount Mapping Report	*Level-Up Tower, Site ID: 806359, dated February 16, 2021*
Previous Mount Analysis Report	*Colliers Engineering & Design, Project #: 21777070 (Rev.1), dated November 22, 2023*
Mount Modification Drawings	*Colliers Engineering & Design, Project #: 21777070 (Rev.1), dated December 13, 2023*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	120 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.994
Seismic Parameters:	S_S:	0.202 g
	S_1:	0.053 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Load, Lv:	250 lbs.
	Maintenance Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
103.00	105.00	6	JMA Wireless	MX06FRO660-03	Added
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		6	Amphenol Antel	BXA-171063-8BF-EDIN	Retained
		1	Generic	GPS	

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 Colliers Engineering & Design 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 Colliers Engineering & Design to verify deviation will not adversely impact the analysis.

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

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

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

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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	*17.4 %*	*Pass*
Connection Plate	*17.2 %*	*Pass*
Face Horizontal	*42.6 %*	*Pass*
Crossmember	*29.1 %*	*Pass*
Crossmember Angle	*45.2 %*	*Pass*
MOD Support Rail	*25.2 %*	*Pass*
Antenna Pipe	*37.0 %*	*Pass*
Mod Support Rail Angle	*28.0 %*	*Pass*
Mod Kicker	*10.3 %*	*Pass*
Mod Support Bracing	*22.8 %*	*Pass*
Mount Connection	*13.7 %*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**45.2%**

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector B Standoff	103	N2	1036	4969	0.758	0.632	1223	1526	0.431	0.182
Sector A Standoff	103	N22A	691	5016	0.794	1.390	298	1696	0.720	0.718
Sector C Standoff	103	N24A	703	4937	0.774	1.230	348	1500	0.696	0.698
Sector B Reinforcement	100	N171	2595	3402	0.000	0.000	2617	3419	0.000	0.000
Sector A Reinforcement	100	N174A	2759	3620	0.000	0.000	2891	3783	0.000	0.000
Sector C Reinforcement	100	N177	2683	3520	0.000	0.000	2749	3594	0.000	0.000

Notes:
- Axial loads act along the axis of the tower leg
- Lateral reactions act perpendicular to the tower leg
- Moment loads introduce bending moment to the tower leg
- Torsion loads introduce twisting moment to the tower leg
- Batch solutions by individual load cases are included at the end of this document

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	39.6	39.4	65.0	64.8
0.5	47.4	48.0	83.8	83.2
1	54.7	55.6	101.8	100.8

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration (attachment 2) after the modifications detailed in attachment 3 are successfully completed.

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

Attachments:

1. **Contractor Required PMI Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Modification Drawings
4. Mount Photos
5. Mount Mapping Report (for reference only)
6. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

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MDG #: 5000121962 SMART Project #: 10215323 Fuze Project ID: 16231875

Purpose – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor to complete the required Mount Desktop review of the Post Modification Inspection Report.

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

Base Requirements:

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: **https://pmi.vzwsmart.com**

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation of the modifications.
  - Photos of the mount 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 the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.
    - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
    - If the materials are as specified on the drawings
        - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
        - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
    - If seeking permission to use an equivalent
        - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

☐ All hardware has been properly installed, and the existing hardware was inspected.

☐ The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

☐ The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission.

Antenna & Equipment Placement and Geometry Confirmation:

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Comments:

Was the mount modification completed in conjunction with the equipment change / installation?

☐ Yes ☐ No

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

Issue:

Contractor to install proposed OVP on existing Position 6 pipe in Alpha sector.

Response:

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Comments:

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Structure: 5000121962-VZW - MILFORD CT

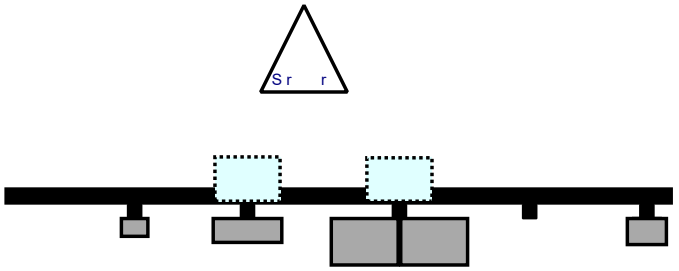
S r **A** 12 13 2 23

S r r T M 1 215323

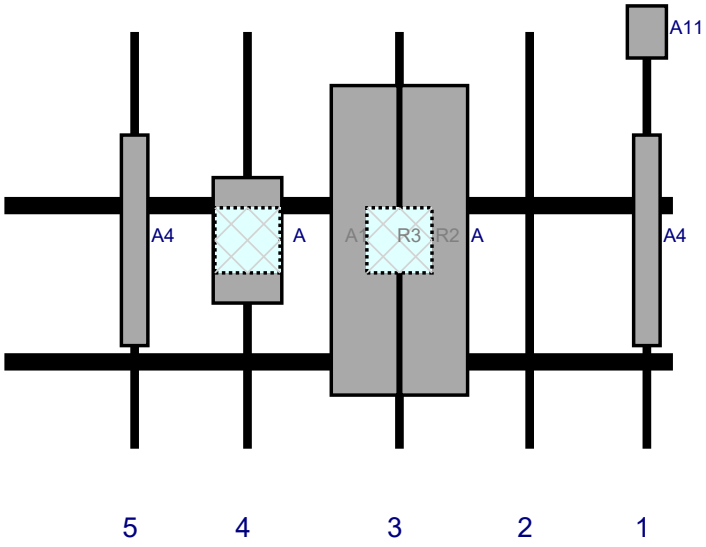
M E 1 3. P 1

Colliers Engineering & Design

Plan View



Front View - L S r r



R	M d		d	D r L.	P P	P P	A r T.	. A O	A S	d
A4	B A 1 1 63 B ED	4 .5	6.1	14	1	r	4		R d	2 16 2 21
A11	PS	12		14	1	r			R d	2 16 2 21
A	M 6 RO66 3	1.3	15.4	1	3	r	4		Add d	
A	M 6 RO66 3	1.3	15.4	1	3	r	4		Add d	
R2	R 443 d 25A	15	15	1	3	B d	4		Add d	
A1	MT6413 A	2 .	15.	56	4	r	4		Add d	
R3	R 4461d 13A	15	15	56	4	B d	4		Add d	
A4	B A 1 1 63 B ED	4 .5	6.1	3	5	r	4		R d	2 16 2 21
MP6A	R D 662 P 4	2 .	15.		M r				Add d	

Structure: 5000121962-VZW - MILFORD CT

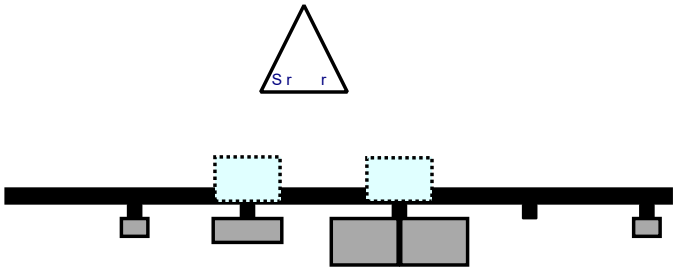
S r **B** 12 13 2 23

S r r T M 1 215323

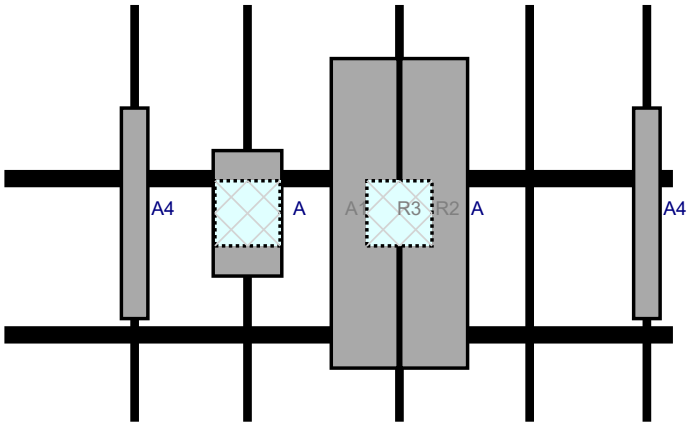
M E 1 3. P 2

Colliers Engineering & Design

Plan View



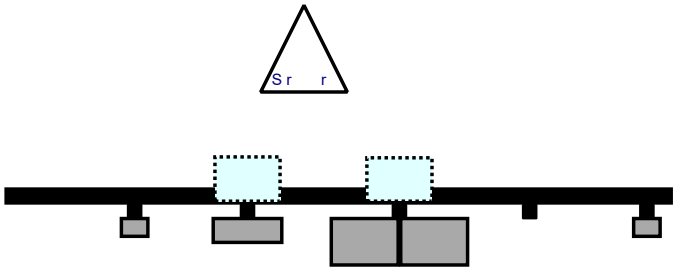
Front View - L S r r



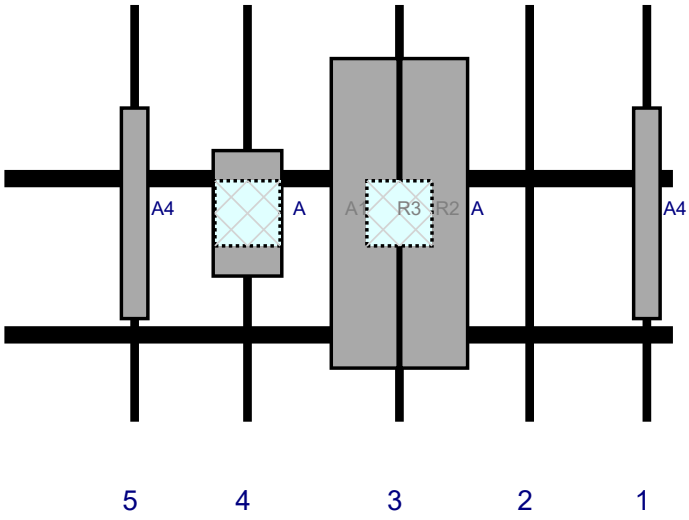
5 4 3 2 1

R	M d	d	D r L.	P P	P P	A r T.	. A O	A S	d
A4	B A 1 1 63 B ED	4 .5	6.1	14	1	r	4	R d	2 16 2 21
A	M 6 RO66 3	1.3	15.4	1	3	r	4	Add d	
A	M 6 RO66 3	1.3	15.4	1	3	r	4	Add d	
R2	R 443 d 25A	15	15	1	3	B d	4	Add d	
A1	MT6413 A	2 .	15.	56	4	r	4	Add d	
R3	R 4461d 13A	15	15	56	4	B d	4	Add d	
A4	B A 1 1 63 B ED	4 .5	6.1	3	5	r	4	R d	2 16 2 21

Plan View



Front View - L Sr r



R	M d		d	D r L.	P P	A P	. A r T.	A O	S	d
A4	B A 1 1 63 B ED	4 .5	6.1	14	1	r	4		R d	2 16 2 21
A	M 6 RO66 3	1.3	15.4	1	3	r	4		Add d	
A	M 6 RO66 3	1.3	15.4	1	3	r	4		Add d	
R2	R 443 d 25A	15	15	1	3	B d	4		Add d	
A1	MT6413 A	2 .	15.	56	4	r	4		Add d	
R3	R 4461d 13A	15	15	56	4	B d	4		Add d	
A4	B A 1 1 63 B ED	4 .5	6.1	3	5	r	4		R d	2 16 2 21

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.83' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 806359

CARRIER SITE NAME: MILFORD CT
CARRIER SITE NUMBER: 5000121962
FUZE ID: 16231875

423 ORONOQUE RD
MILFORD, CT 06460
NEW HAVEN COUNTY

LATITUDE: 41.237875° N
LONGITUDE: 73.086219° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 167.39'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .202
LONG TERM MCER GROUND MOTION, S_1 = .053

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856-797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10215323
VZW MDG#: 5000121962
ANALYSIS DATE: 12/13/2023

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBOM-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

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JOB NUMBER : 21777070

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NEW HAVEN CT

Colliers Engineering & Design

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C. DOING BUSINESS AS MASER CONSULTING

SHEET TITLE : TITLE SHEET

SHEET NUMBER : ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	504	504
1		VZWSMART-PLK2	PLATFORM SUPPORT RAIL MODIFICATION BRACING	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	211	211
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	291	291
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
6		VZWSMART-MSK1	CROSSOVER PLATE		14	84
3		VZWSMART-P40-278-096	96" LONG, PIPE 2.5 SCH40 (2.875" OD X 0.203" THK)		46	138
9		VZWSMART-P40-238-096	96" LONG, PIPE 2 SCH40 (2.375" OD X 0.154" THK)		30	270

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
-	-	-	1/2" DIA. U-BOLTS			
					TOTAL:	1648

NOTES:

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

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

VZWSMART KITS - APPROVED VENDORS

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

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SHEET TITLE : BILL OF MATERIALS

SHEET NUMBER : SBOM-1

PROJECT NOTES

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

GENERAL NOTES

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

STRUCTURAL STEEL

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

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

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

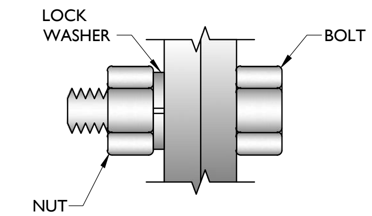
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

BOLT SCHEDULE (IN.)

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

WORKABLE GAGES (IN.)

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

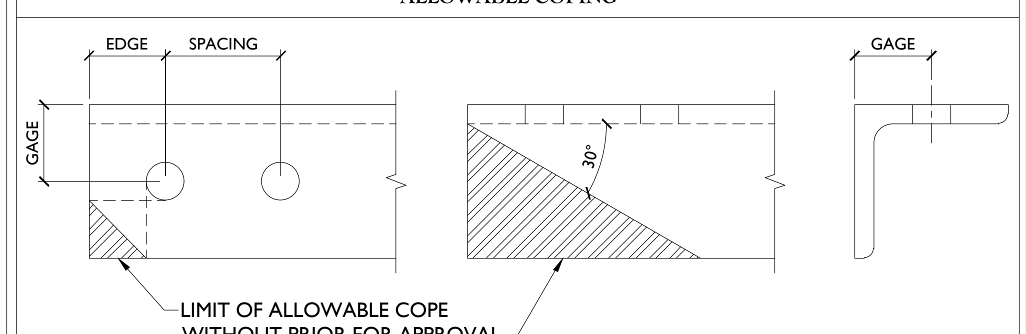


TYP. BOLT ASSEMBLY

NOTES:

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

ALLOWABLE COPING



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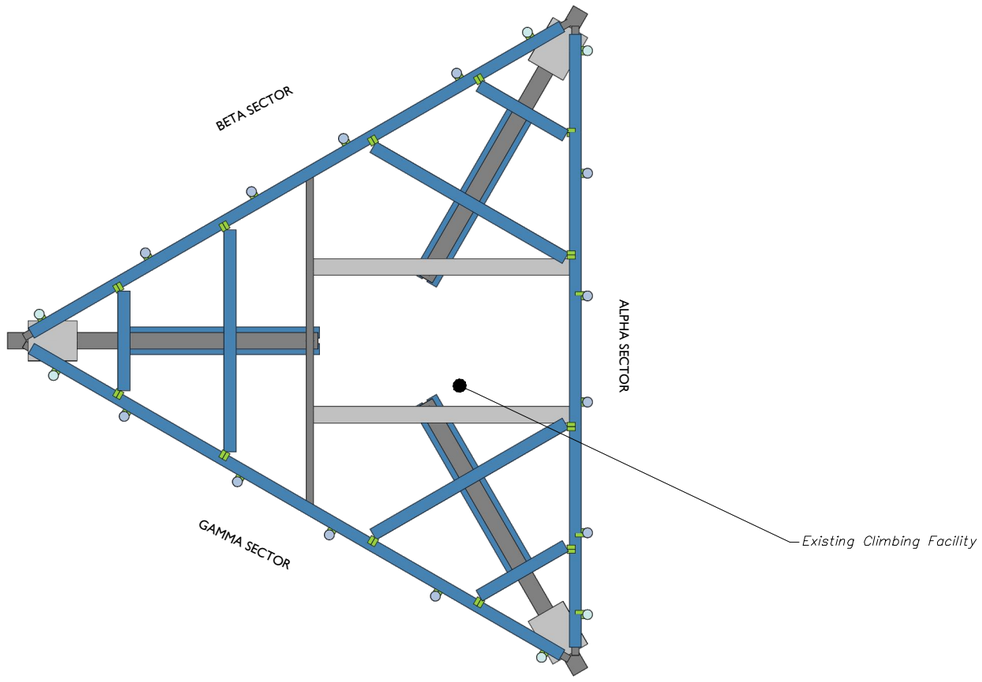
SHEET TITLE : MODIFICATION NOTES

SHEET NUMBER : SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.

CLIMBING FACILITY PHOTO

STRUCTURAL NOTES:

1. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION, INSTALL NEW WIRE ROPE AND ENSURE IT DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.

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

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SHEET TITLE :

CLIMBING FACILITY DETAIL

SHEET NUMBER :

SCF-1

LEGEND:

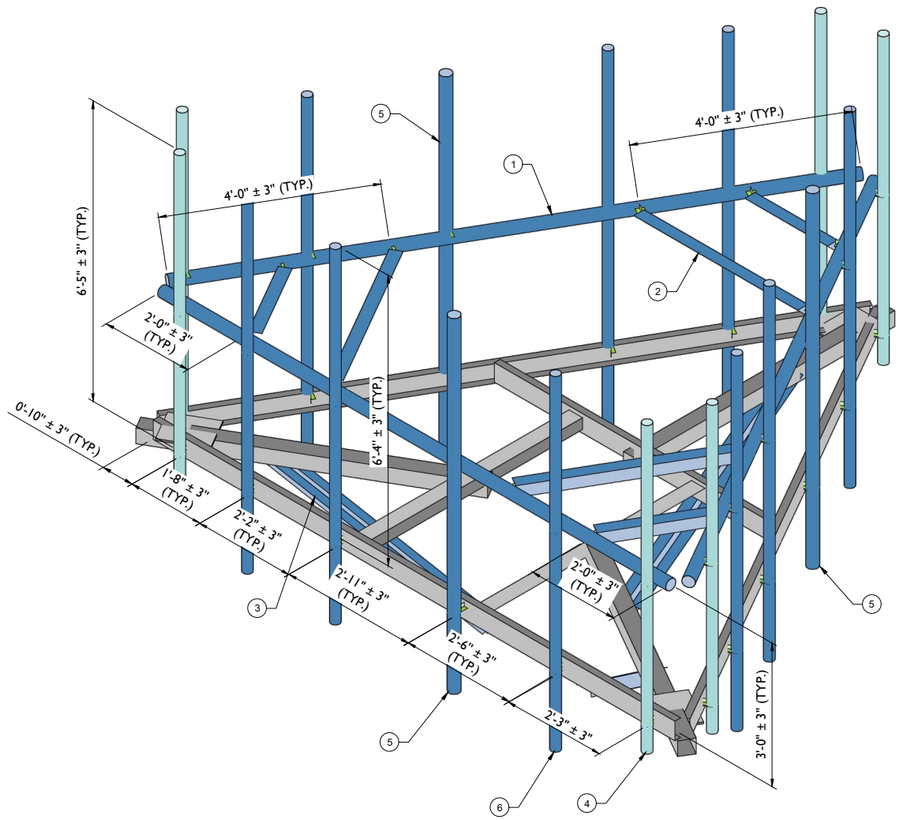
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	103'-0"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.
2		1	PROPOSED PLATFORM SUPPORT RAIL BRACING KIT (PART #: VZWSMART-PLK2)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1
3		1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
4		6	RELOCATED MOUNT PIPE	CONNECT RELOCATED MOUNT PIPE TO EXISTING CHANNEL HORIZONTAL WITH (2) 1/2" DIA. U-BOLTS. CONNECT TO SUPPORT RAIL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1). CONTRACTOR TO DRILL HOLES AS REQUIRED.
5		3	PROPOSED 96" LONG, P2 1/2 STD (PART #: VZWSMART-P40-278X096)	CONNECT NEW MOUNT PIPE TO EXISTING CHANNEL HORIZONTAL WITH (2) 1/2" DIA. U-BOLTS.
6		9	PROPOSED 96" LONG, P2 STD (PART #: VZWSMART-P40-238X096)	CONNECT NEW MOUNT PIPE TO EXISTING CHANNEL HORIZONTAL WITH (2) 1/2" DIA. U-BOLTS. CONTRACTOR TO DRILL HOLES AS REQUIRED.

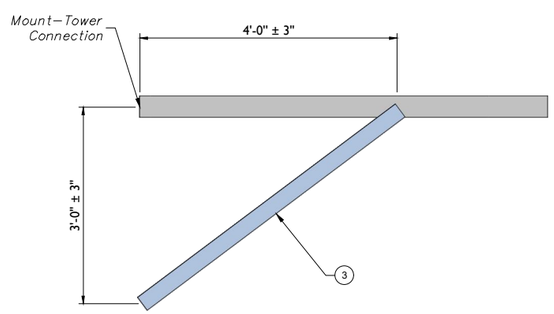
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
CONTRACTOR SHALL REMOVE EXISTING SUPPORT RAIL ANGLES, CORNER PIPES, MOUNT PIPES (EXCEPT RELOCATED MOUNT PIPES) AND INTERMEDIATE HORIZONTAL ANGLES PRIOR TO INSTALLATION OF PROPOSED MODIFICATION KITS.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

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PROTECT YOURSELF

ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

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

SCALE : AS SHOWN

JOB NUMBER : 21777070

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	12/13/23	ISSUED FOR CONSTRUCTION	SC	DX
0	01/24/22	ISSUED FOR CONSTRUCTION	SC	EA

MASER CONSULTINGC.T. C.O.A. #: JPC.0000131
JPC.0000131

SITE NAME:

MILFORD CT
467373

423 ORONOQUE RD
MILFORD, CT 06460
NEW HAVEN CT

Colliers Engineering & Design

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE : MODIFICATION DETAILS

SHEET NUMBER : SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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

SCALE : AS SHOWN

JOB NUMBER : 21777070

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	12/13/23	ISSUED FOR CONSTRUCTION	SC	DX
0	01/24/22	ISSUED FOR CONSTRUCTION	SC	EA

MASER CONSULTINGC.T. C.O.A. #: PC.0000131
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SITE NAME:

MILFORD CT
467373

423 ORONOQUE RD
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STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
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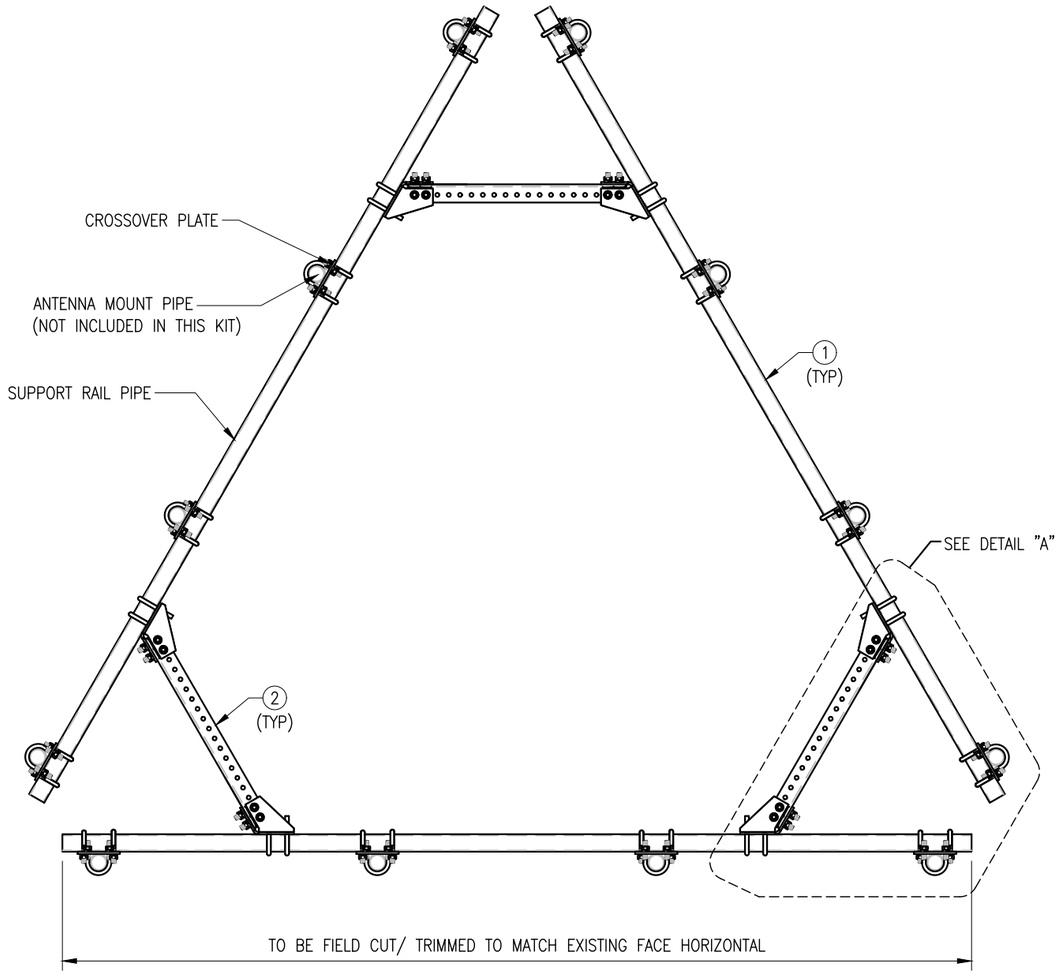
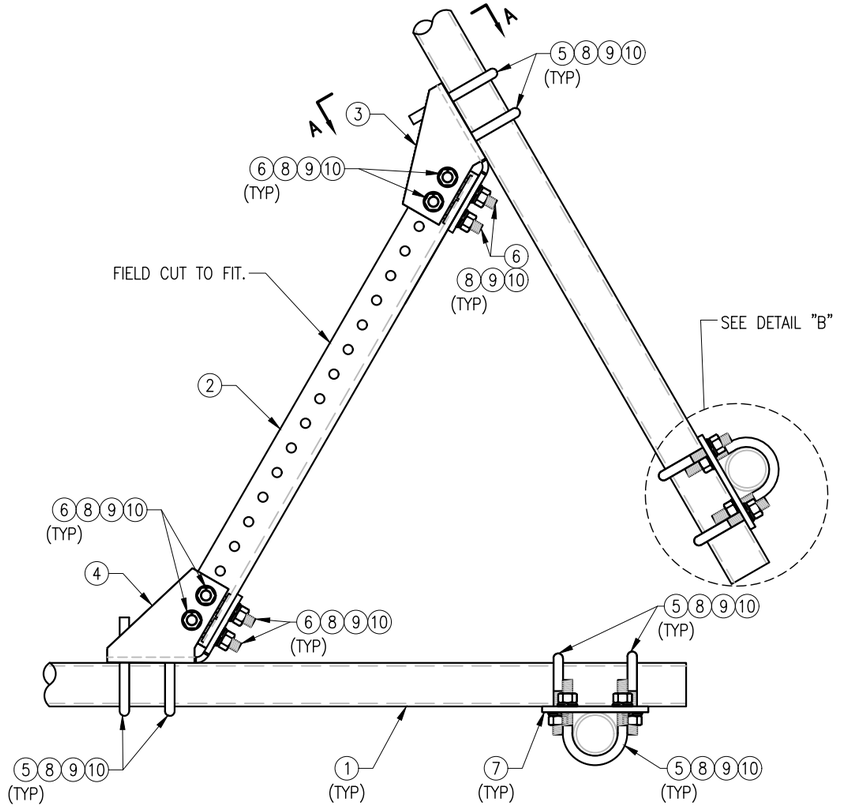
SHEET TITLE : MOUNT PHOTOS

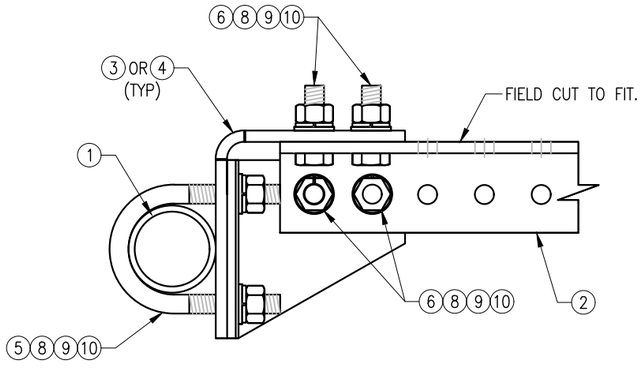
SHEET NUMBER : SS-2



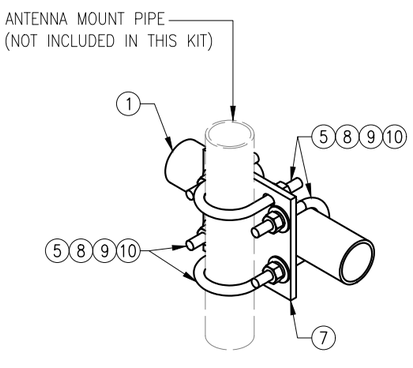
PLAN VIEW



DETAIL "A"



SECTION "A–A"



DETAIL "B"

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

VZW SMART–PLK1 (SUPPORT RAIL KIT)

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

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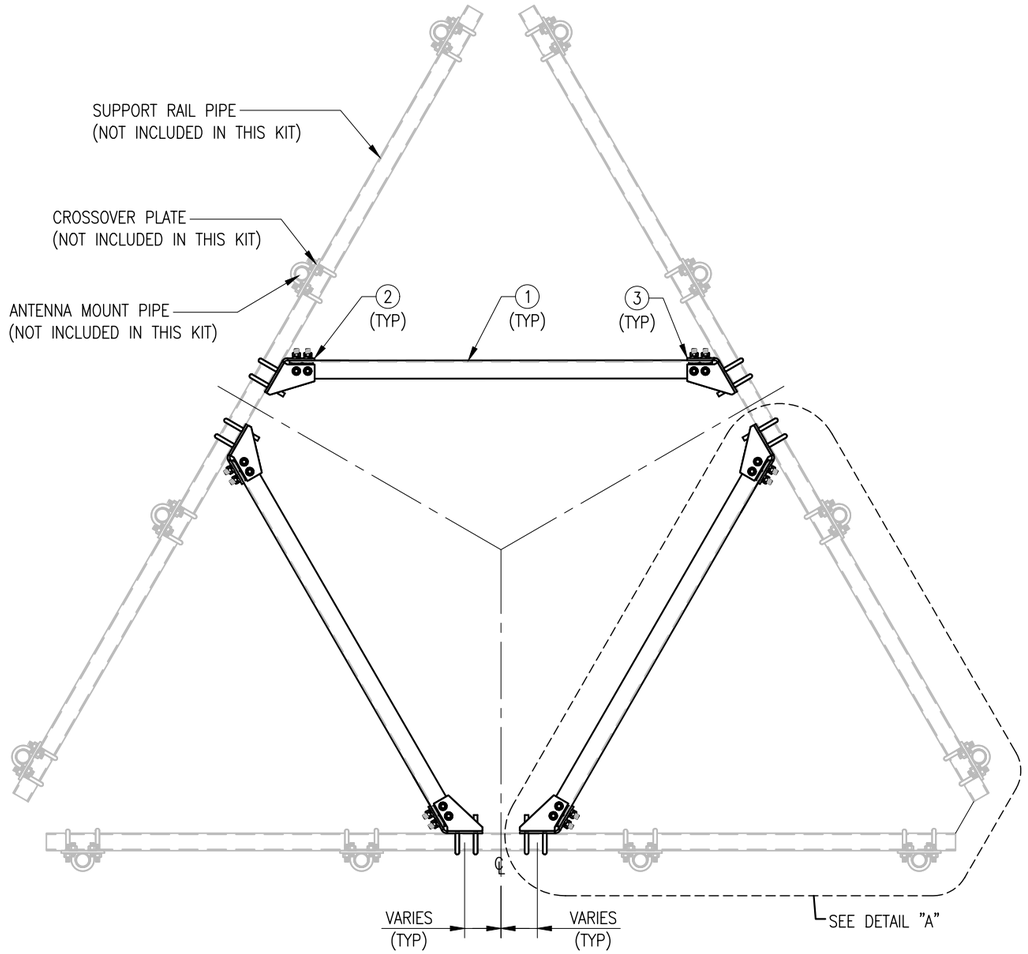
DRAWN BY: H.R | CHECKED BY: HMA

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

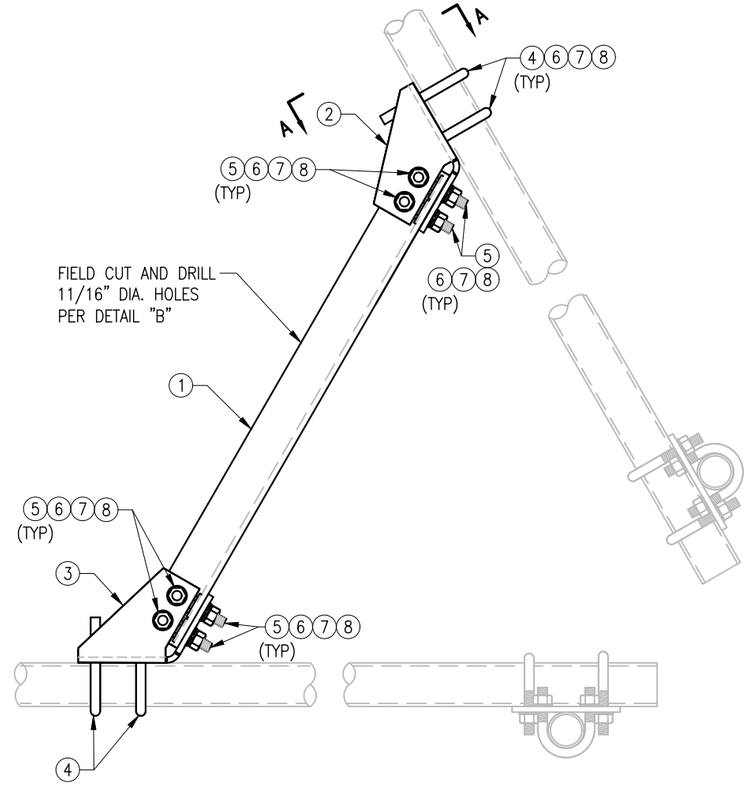
SHEET TITLE:
VZWSMART–PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART–PLK1

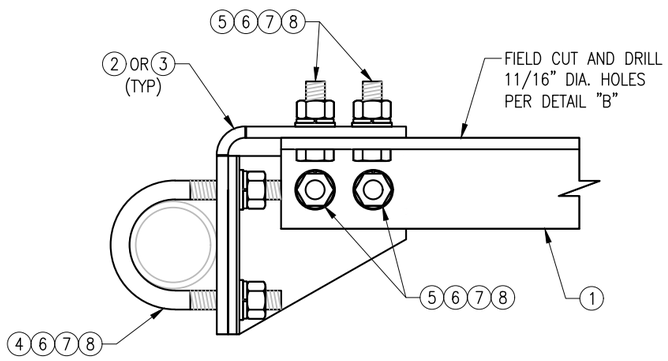
REV #: 0



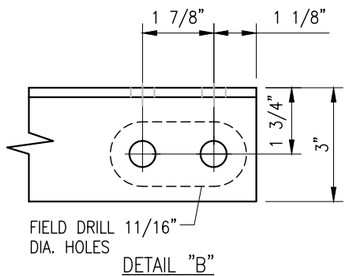
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

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

VZWSMART-PLK2 (PLATFORM SUPPORT RAIL BRACING)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	L3325-8	L 3" X 3" X 1/4" X 8'-0" A36	PLK2-F1	120
2	3	CBP-L	CORNER BENT PLATE BRACKET	PLK2-F2	28
3	3	CBP-R	CORNER BENT PLATE BRACKET	PLK2-F2	28
4	12	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	16
5	24	---	BOLT 5/8" X 2" A325 W/HHN & LKW EA.	---	9
6	48	FW-625	5/8" HDG USS FLAT WASHER	---	4
7	48	LW-625	5/8" HDG LOCK WASHER	---	1
8	48	NUT-625	5/8" HDG HEX NUT	---	6
				GALVANIZED WT	211

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DRAWN BY: CH/HR | CHECKED BY: HMA/KW

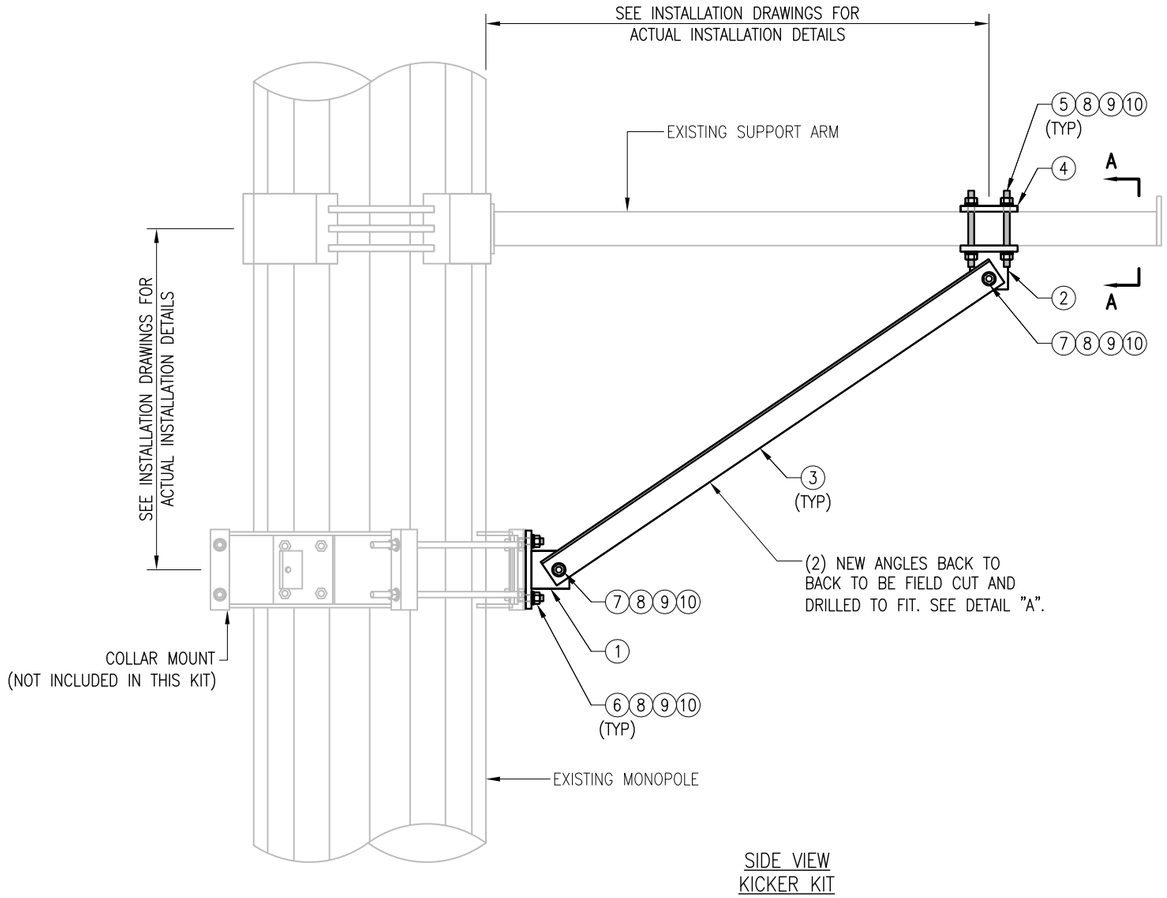
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CH/HR	05/08/20

SHEET TITLE:
VZWSMART-PLK2
PLATFORM SUPPORT
RAIL KIT

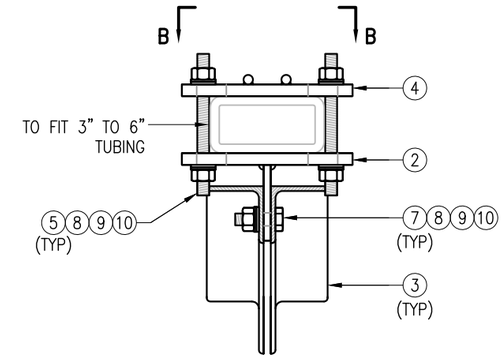
SHEET NUMBER: VZWSMART-PLK2

REV #: 0

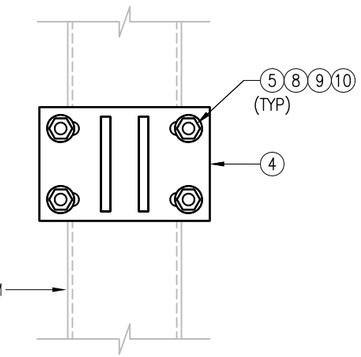
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



SIDE VIEW
KICKER KIT

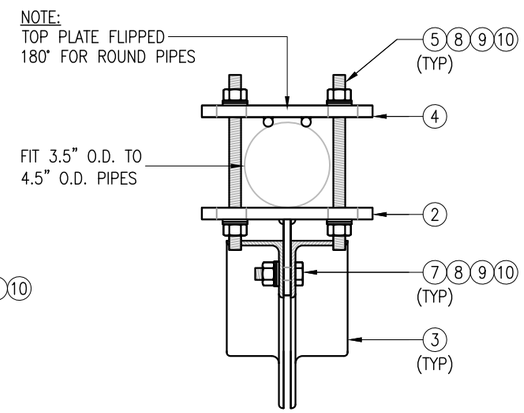


SECTION "A–A"
RECT. HSS MOUNTING

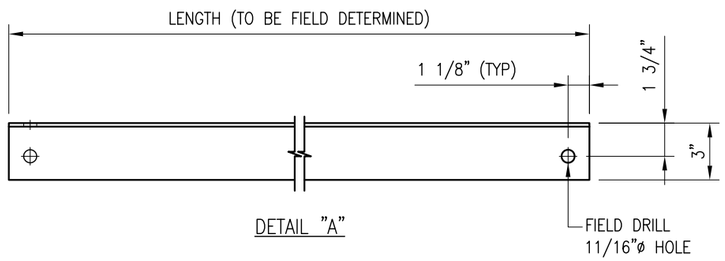


SECTION "B–B"

NOTE:
TOP PLATE FLIPPED 180° FOR ROUND PIPES



SECTION "A–A"
ROUND PIPE MOUNTING



DETAIL "A"

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

VZWSMART–PLK5 (KICKER KIT)

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

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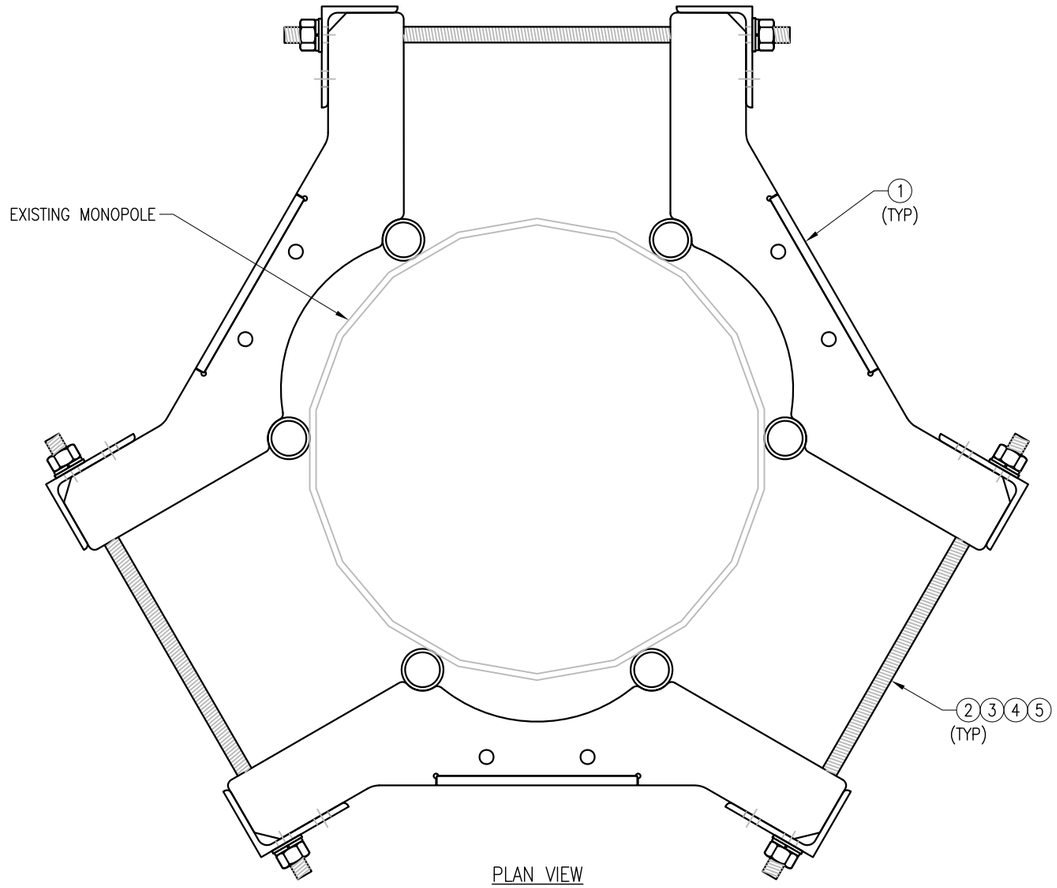
DRAWN BY: MN | CHECKED BY: HMA/KW

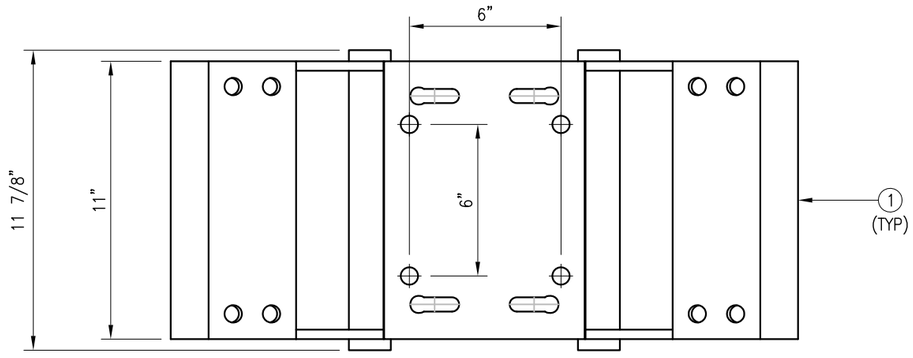
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5
REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

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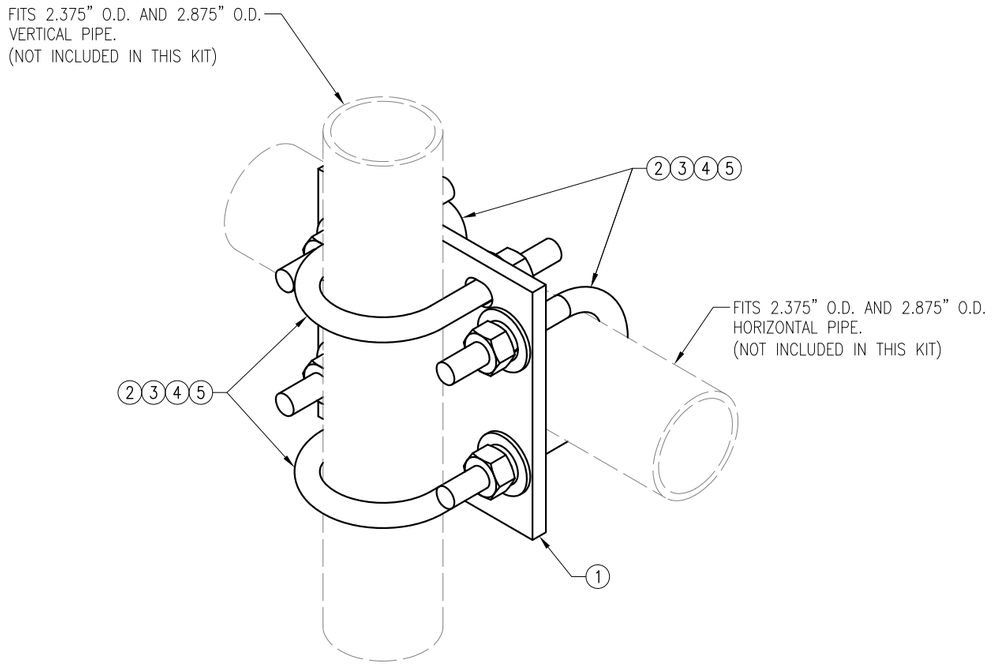
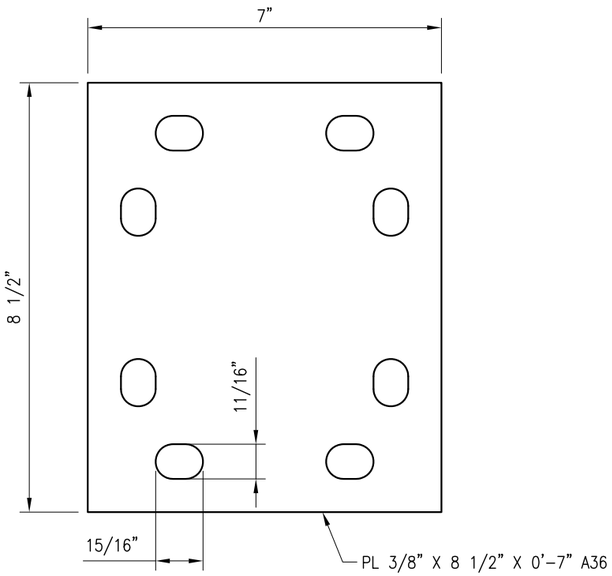
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0





PL375-857

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

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

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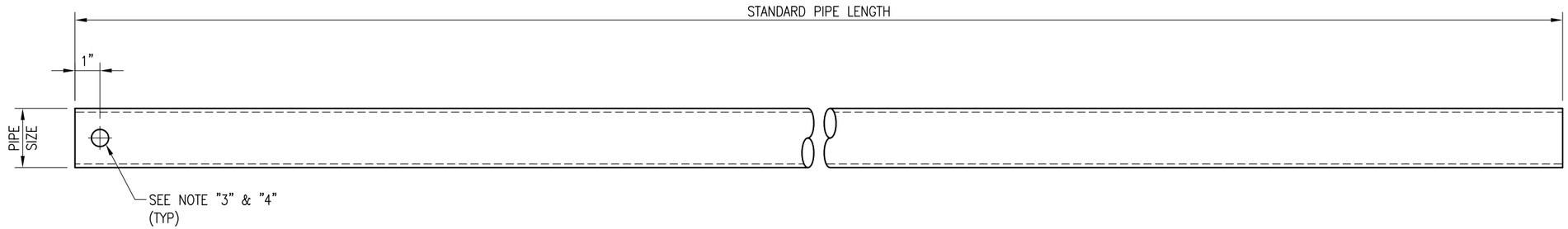
DRAWN BY: H.R | CHECKED BY: HMA

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

SHEET TITLE:
VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0



VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X072	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE. SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

NOTES:
1. ALL PIPE GRADE A53-B OR BETTER.
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. ALL HOLES ARE 11/16" DIA. U.N.O
4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

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DRAWN BY: BT | CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	08/04/21

SHEET TITLE:
VZWSMART STANDARD PIPE

SHEET NUMBER: VZWSMART-PIPE

REV #: 0

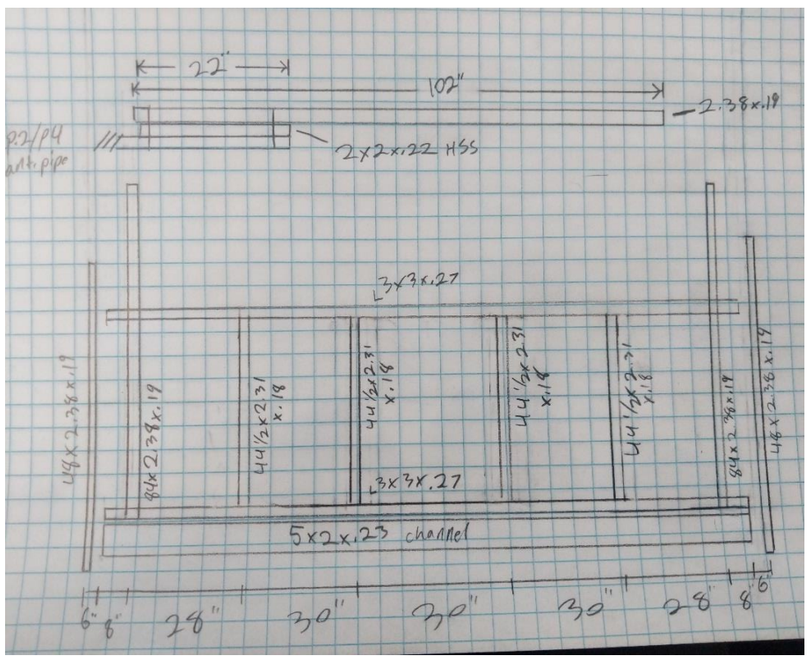

02.16.2021 14:26

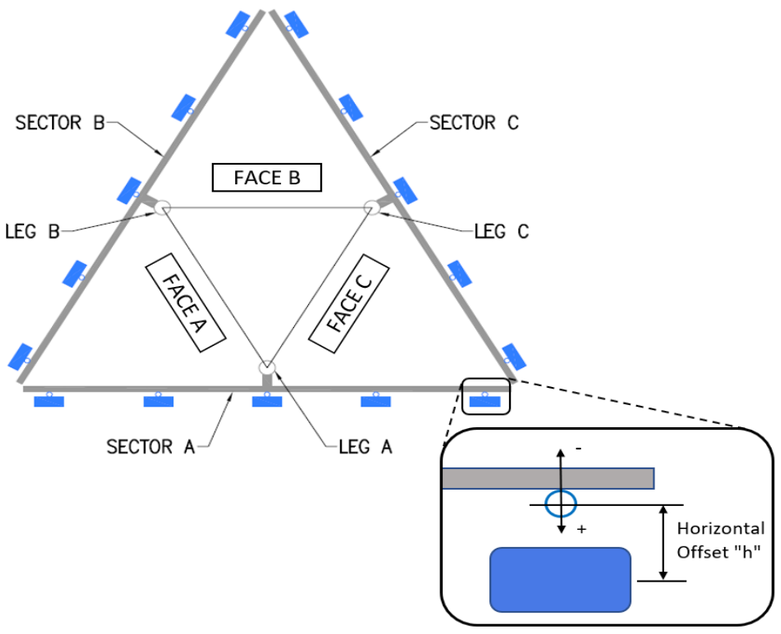
V3.0 Updated on 8-31-2020

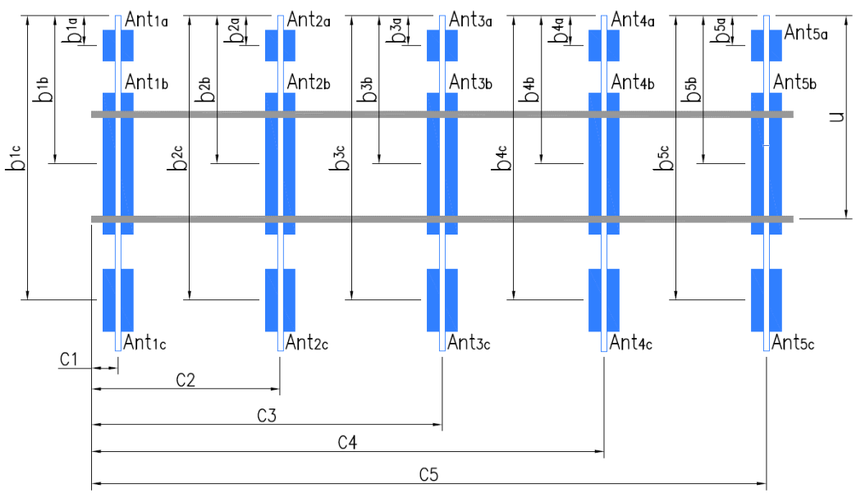
Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	CROWN CASTLE	**Mapping Date:**	2/16/2021
Site Name:	MILFORD CT	**Tower Type:**	Monopole
Site Number or ID:	806359	**Tower Height (Ft.):**	108
Mapping Contractor:	LEVEL-UP TOWERS	**Mount Elevation (Ft.):**	105







Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	84x2.38x.19	84.00	8.00	C1	84x2.38x.19	84.00	8.00
A2	102x2.31x.18	124.00	32.00	C2	102x2.31x.18	124.00	32.00
A3	44x2.31x.18	44.00	72.00	C3	44x2.31x.18	44.00	72.00
A4	102x2.31x.18	124.00	102.00	C4	102x2.31x.18	124.00	102.00
A5	44x2.31x.18	44.00	132.00	C5	44x2.31x.18	44.00	132.00
A6	84x2.38x.19	84.00	146.00	C6	84x2.38x.19	84.00	146.00
B1	84x2.38x.19	84.00	8.00	D1			
B2	102x2.31x.18	124.00	32.00	D2			
B3	44x2.31x.18	44.00	72.00	D3			
B4	102x2.31x.18	124.00	102.00	D4			
B5	44x2.31x.18	44.00	132.00	D5			
B6	84x2.38x.19	84.00	146.00	D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	82

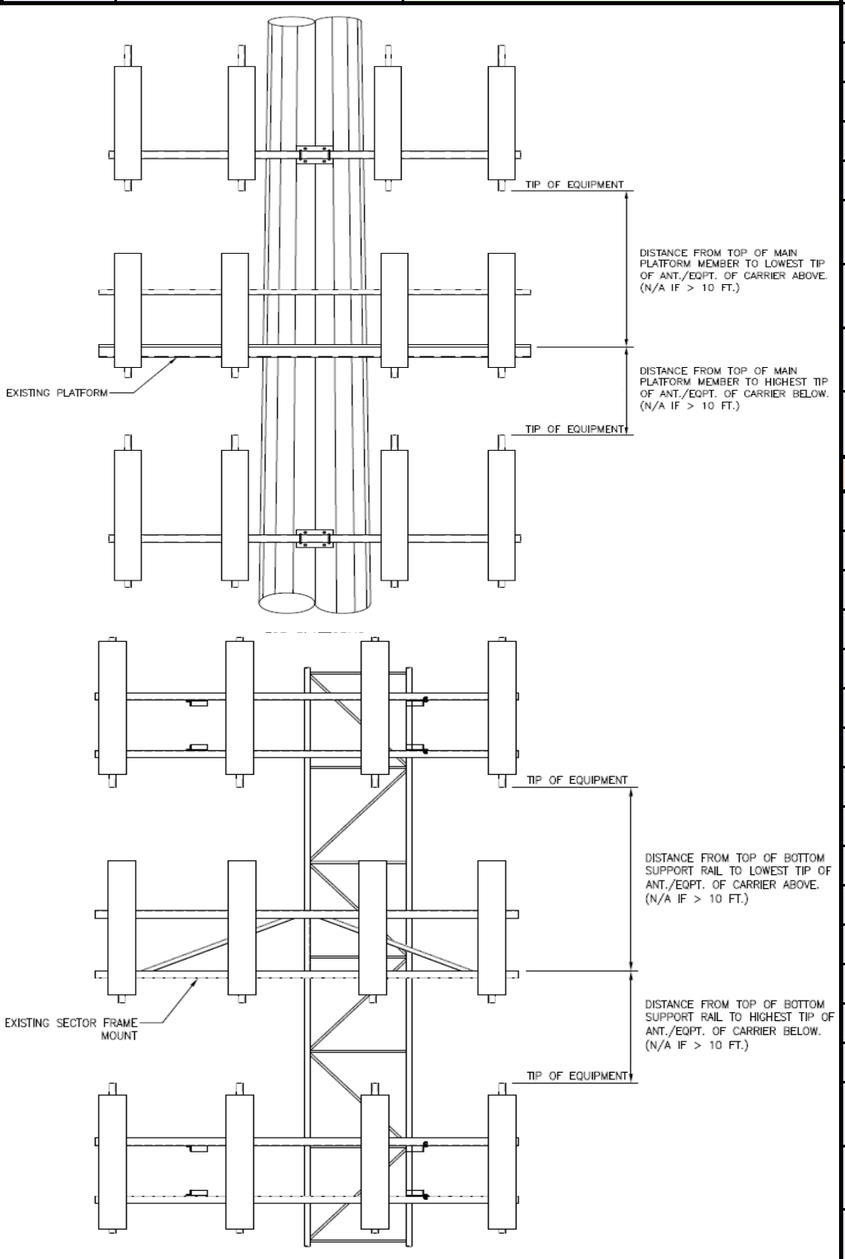
Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	24.2

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}	RRH2X40-AWS	12.00	8.00	25.00	FIBER	107.5	54.00	-6.00		73
Ant_{1b}	BXA-171063-8BF-EDI	6.00	4.00	48.00	(2) 1/2	107.583	53.00	8.00	95.00	73
Ant_{1c}										
Ant_{2a}	DB846F65ZAXY	10.00	8.00	72.00	(1) 7/8	112.167	38.00	15.00	50.00	75
Ant_{2b}										
Ant_{2c}										
Ant_{3a}	SWCP2X5514	14.00	11.00	51.00	(2) 7/8	106.583	25.00	12.00	95.00	78
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	DB846F65ZAXY	10.00	8.00	72.00	(1) 7/8	112.167	38.00	15.00	140.00	82
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	BXA-171063-8BF-EDI	6.00	4.00	48.00		106.833	22.00	8.75	95.00	83
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	95.00	Deg	Leg A:		Deg
Sector B:	215.00	Deg	Leg B:		Deg
Sector C:	335.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

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



Sector B										
Ant_{1a}	RRH2X40-AWS	12.00	8.00	25.00	FIBER	107.5	54.00	-6.00		85
Ant_{1b}	BXA-171063-8BF-EDIN	6.00	4.00	48.00	(2) 1/2	107.583	53.00	8.00	215.00	85
Ant_{1c}										
Ant_{2a}	DB846F65ZAXY	10.00	8.00	72.00	(1) 7/8	112.167	38.00	15.00	170.00	90
Ant_{2b}										
Ant_{2c}										
Ant_{3a}	SWCP2X5514	14.00	11.00	51.00	(2) 7/8	106.583	25.00	12.00	215.00	92
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	DB846F65ZAXY	10.00	8.00	72.00	(1) 7/8	112.167	38.00	15.00	260.00	95
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	BXA-171063-8BF-EDIN	6.00	4.00	48.00		106.833	22.00	8.75	215.00	96
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	RRH2X40-AWS	12.00	8.00	25.00	FIBER	107.5	54.00	-6.00		43
Ant_{1b}	BXA-171063-8BF-EDIN	6.00	4.00	48.00	(2) 1/2	107.583	53.00	8.00	335.00	45
Ant_{1c}										
Ant_{2a}	DB846F65ZAXY	10.00	8.00	72.00	(1) 7/8	112.167	38.00	15.00	290.00	43
Ant_{2b}										
Ant_{2c}										
Ant_{3a}	SWCP2X5514	14.00	11.00	51.00	(2) 7/8	106.583	25.00	12.00	335.00	56
Ant_{3b}										
Ant_{3c}										
Ant_{4a}	DB846F65ZAXY	10.00	8.00	72.00	(1) 7/8	112.167	38.00	15.00	10.00	61
Ant_{4b}										
Ant_{4c}										
Ant_{5a}	BXA-171063-8BF-EDIN	6.00	4.00	48.00		106.833	22.00	8.75	335.00	66
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

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

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

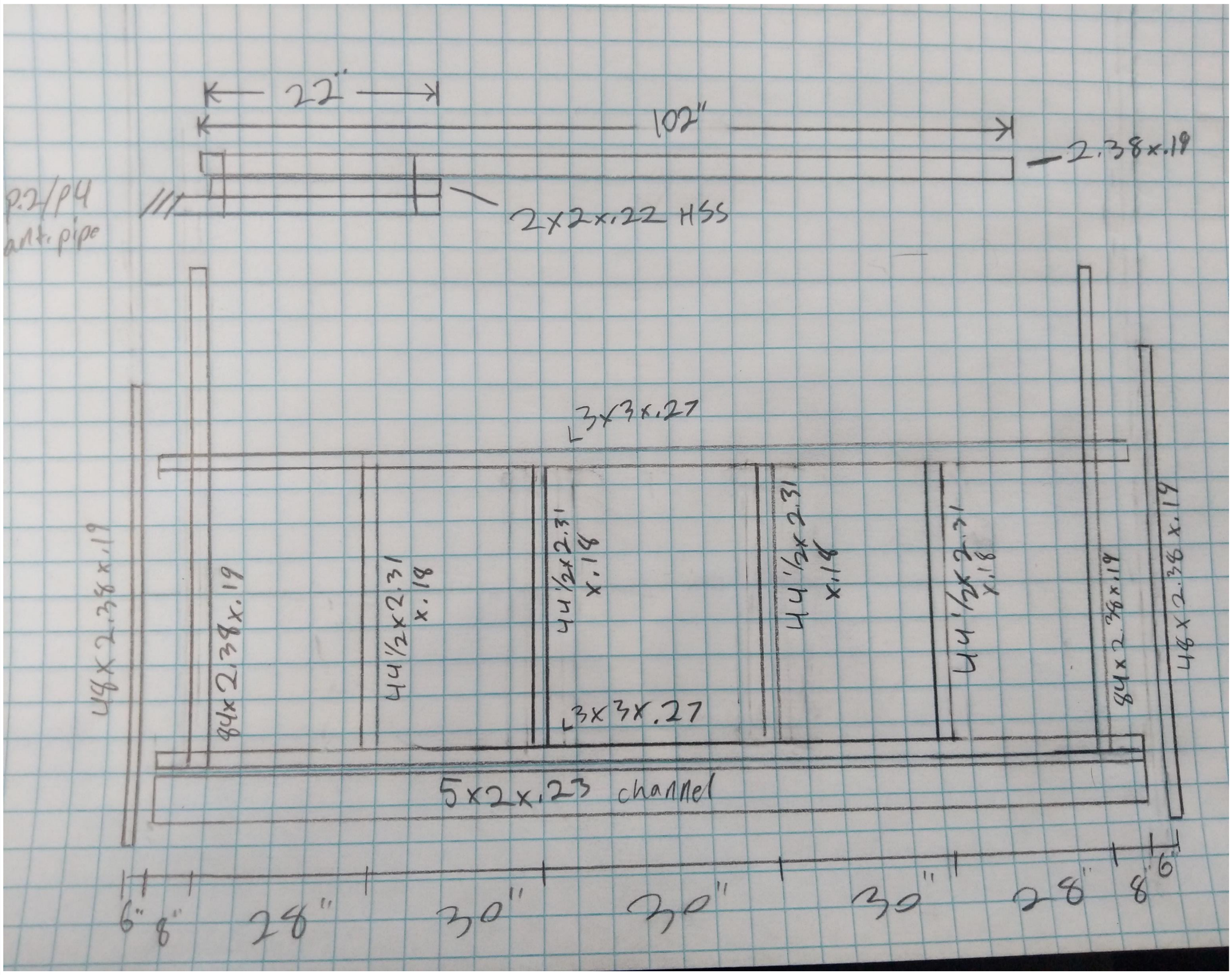
V3.0 Updated on 8-31-2020

Antenna Mount Mapping Form (PATENT PENDING)

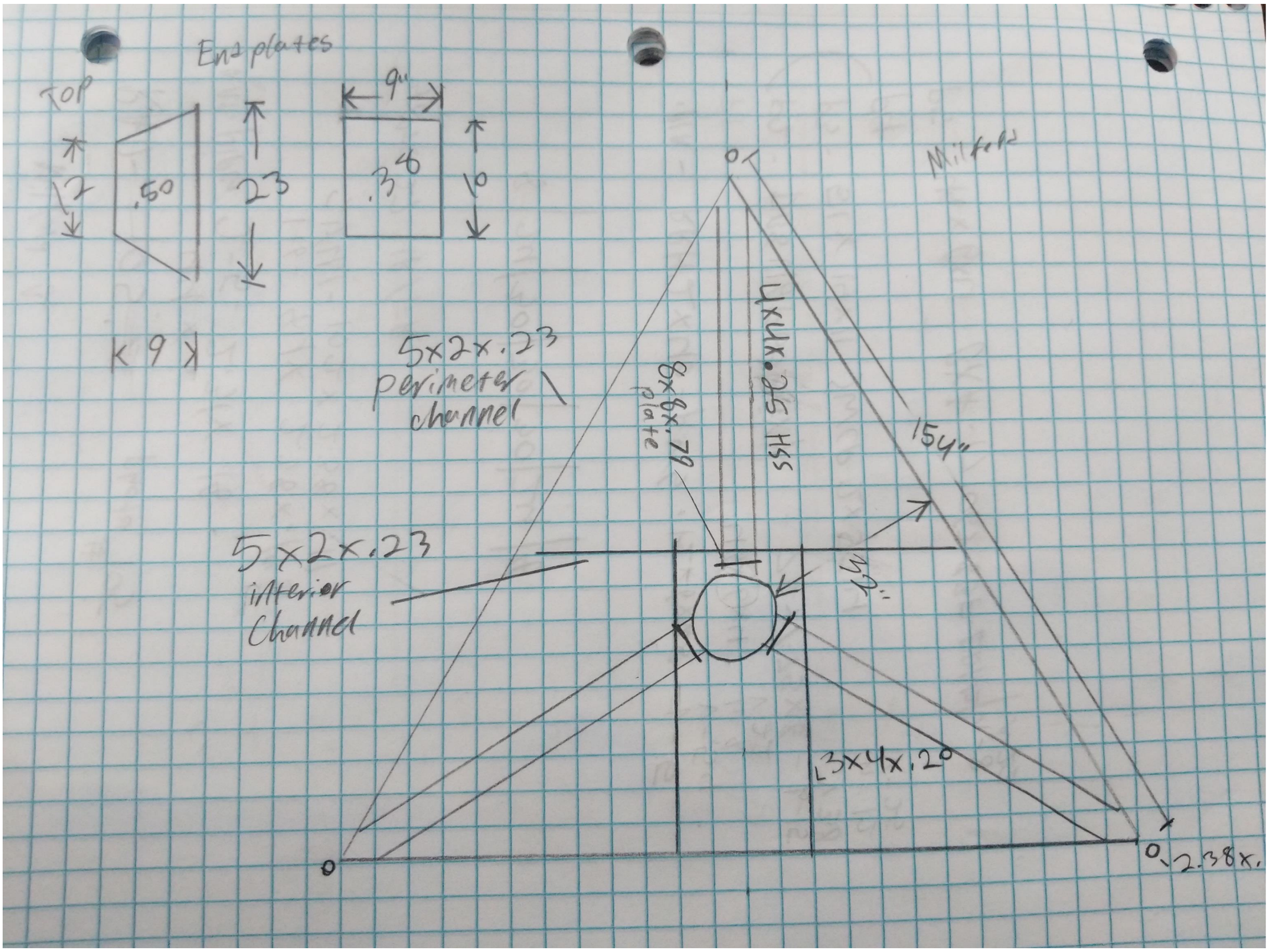
FCC #	

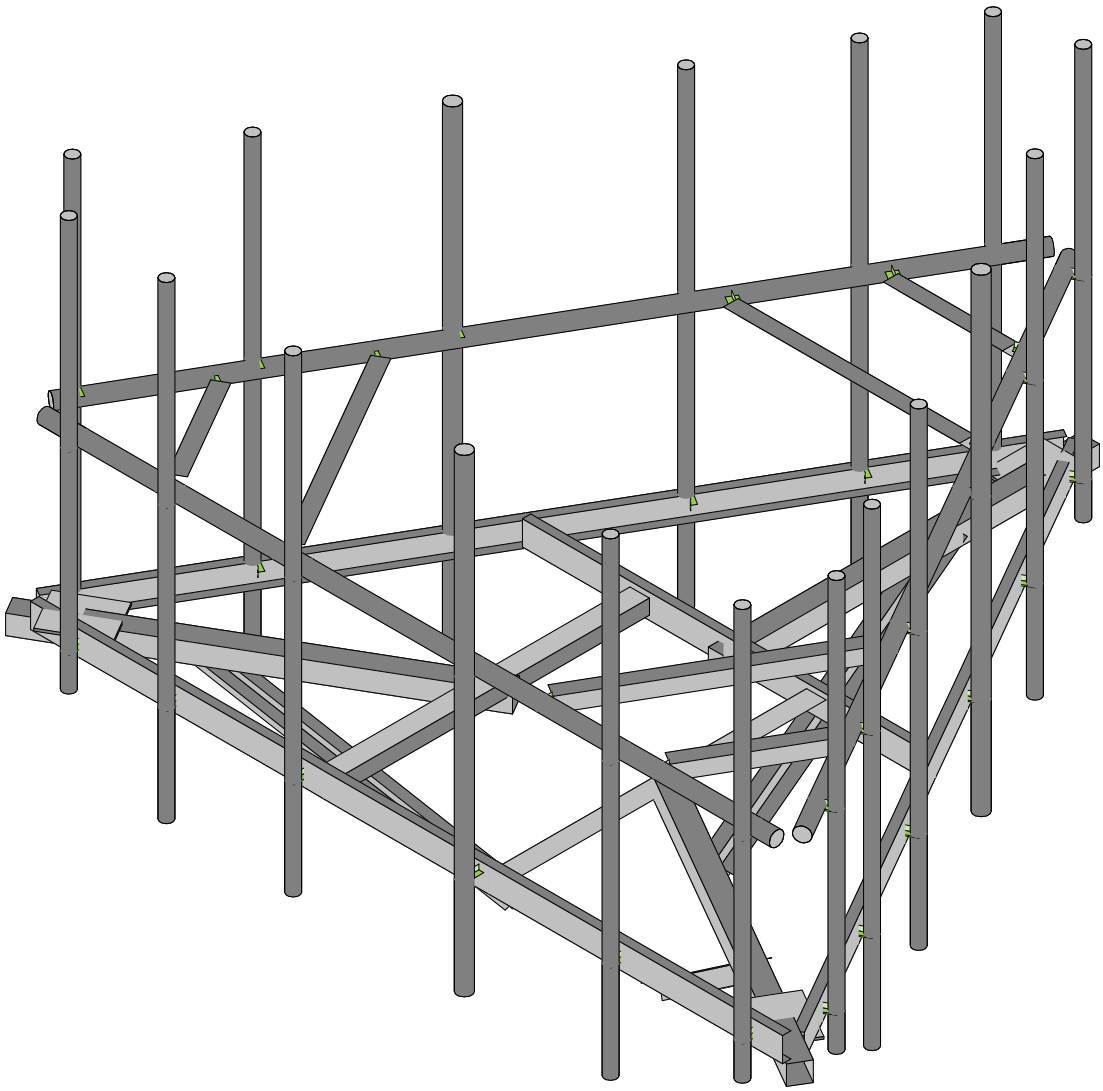
Tower Owner:	CROWN CASTLE	**Mapping Date:**	2/16/2021
Site Name:	MILFORD CT	**Tower Type:**	Monopole
Site Number or ID:	806359	**Tower Height (Ft.):**	108
Mapping Contractor:	LEVEL-UP TOWERS	**Mount Elevation (Ft.):**	105

Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd





Envelope Only Solution

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		Dec 13, 2023 at 10:38 AM
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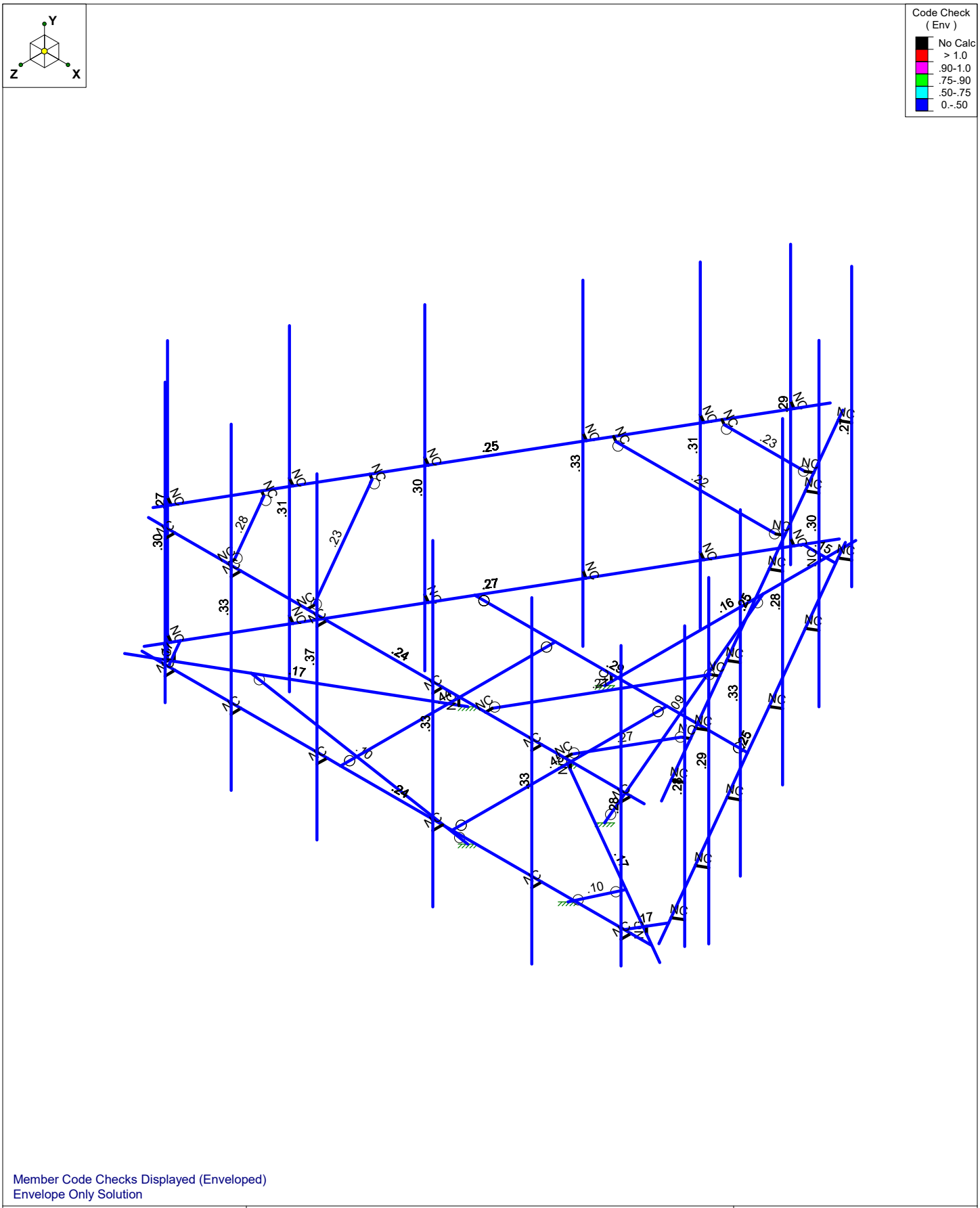

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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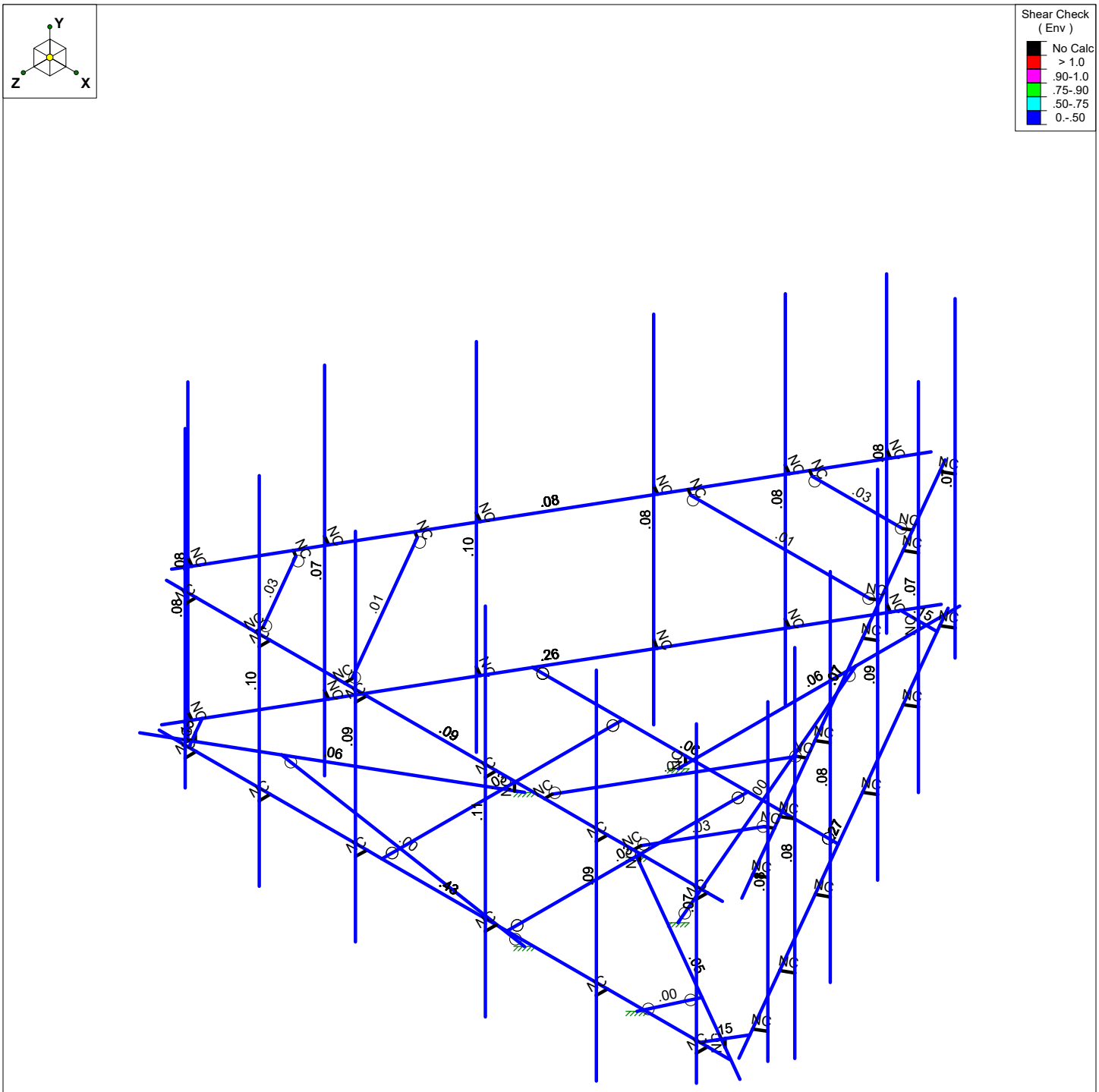

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

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		5000121962-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					114			
2	Antenna Di	None					114			
3	Antenna Wo (0 Deg)	None					114			
4	Antenna Wo (30 Deg)	None					114			
5	Antenna Wo (60 Deg)	None					114			
6	Antenna Wo (90 Deg)	None					114			
7	Antenna Wo (120 Deg)	None					114			
8	Antenna Wo (150 Deg)	None					114			
9	Antenna Wo (180 Deg)	None					114			
10	Antenna Wo (210 Deg)	None					114			
11	Antenna Wo (240 Deg)	None					114			
12	Antenna Wo (270 Deg)	None					114			
13	Antenna Wo (300 Deg)	None					114			
14	Antenna Wo (330 Deg)	None					114			
15	Antenna Wi (0 Deg)	None					114			
16	Antenna Wi (30 Deg)	None					114			
17	Antenna Wi (60 Deg)	None					114			
18	Antenna Wi (90 Deg)	None					114			
19	Antenna Wi (120 Deg)	None					114			
20	Antenna Wi (150 Deg)	None					114			
21	Antenna Wi (180 Deg)	None					114			
22	Antenna Wi (210 Deg)	None					114			
23	Antenna Wi (240 Deg)	None					114			
24	Antenna Wi (270 Deg)	None					114			
25	Antenna Wi (300 Deg)	None					114			
26	Antenna Wi (330 Deg)	None					114			
27	Antenna Wm (0 Deg)	None					114			
28	Antenna Wm (30 Deg)	None					114			
29	Antenna Wm (60 Deg)	None					114			
30	Antenna Wm (90 Deg)	None					114			
31	Antenna Wm (120 Deg)	None					114			
32	Antenna Wm (150 Deg)	None					114			
33	Antenna Wm (180 Deg)	None					114			
34	Antenna Wm (210 Deg)	None					114			
35	Antenna Wm (240 Deg)	None					114			
36	Antenna Wm (270 Deg)	None					114			
37	Antenna Wm (300 Deg)	None					114			
38	Antenna Wm (330 Deg)	None					114			
39	Structure D	None		-1					6	
40	Structure Di	None						42	6	
41	Structure Wo (0 Deg)	None						84		
42	Structure Wo (30 Deg)	None						84		
43	Structure Wo (60 Deg)	None						84		
44	Structure Wo (90 Deg)	None						84		
45	Structure Wo (120 Deg)	None						84		
46	Structure Wo (150 Deg)	None						84		
47	Structure Wo (180 Deg)	None						84		
48	Structure Wo (210 Deg)	None						84		
49	Structure Wo (240 Deg)	None						84		
50	Structure Wo (270 Deg)	None						84		
51	Structure Wo (300 Deg)	None						84		
52	Structure Wo (330 Deg)	None						84		
53	Structure Wi (0 Deg)	None						84		
54	Structure Wi (30 Deg)	None						84		
55	Structure Wi (60 Deg)	None						84		
56	Structure Wi (90 Deg)	None						84		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
57	Structure Wi (120 Deg)	None						84		
58	Structure Wi (150 Deg)	None						84		
59	Structure Wi (180 Deg)	None						84		
60	Structure Wi (210 Deg)	None						84		
61	Structure Wi (240 Deg)	None						84		
62	Structure Wi (270 Deg)	None						84		
63	Structure Wi (300 Deg)	None						84		
64	Structure Wi (330 Deg)	None						84		
65	Structure Wm (0 Deg)	None						84		
66	Structure Wm (30 Deg)	None						84		
67	Structure Wm (60 Deg)	None						84		
68	Structure Wm (90 Deg)	None						84		
69	Structure Wm (120 Deg)	None						84		
70	Structure Wm (150 Deg)	None						84		
71	Structure Wm (180 Deg)	None						84		
72	Structure Wm (210 Deg)	None						84		
73	Structure Wm (240 Deg)	None						84		
74	Structure Wm (270 Deg)	None						84		
75	Structure Wm (300 Deg)	None						84		
76	Structure Wm (330 Deg)	None						84		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					114			
82	Antenna Eh (0 Deg)	None					76			
83	Antenna Eh (90 Deg)	None					76			
84	Structure Ev	ELY		-.043					6	
85	Structure Eh (0 Deg)	ELZ			-.108				6	
86	Structure Eh (90 Deg)	ELX	.108						6	
87	BLC 39 Transient Area L...	None						36		
88	BLC 40 Transient Area L...	None						36		
89	BLC 84 Transient Area L...	None						44		
90	BLC 85 Transient Area L...	None						44		
91	BLC 86 Transient Area L...	None						44		

Load Combinations

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
18	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0W...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX					
59	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1				
62	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac...
75	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0	-.75	0	0	
2	N2	-0.	0	-1.458333	0	
3	N3	-0.	0	-7.791667	0	
4	N4	-0.	0	-6.875	0	
5	N13	6.416652	0.166667	3.791667	0	
6	N14	-6.416681	0.166667	3.791667	0	
7	N9	-0.	0.166667	-6.875	0	
8	N24	-0.	0	-1.625	0	
9	N29	-0.	0.166667	-1.625	0	
10	N30	-1.407291	0.166667	-1.625	0	
11	N33A	1.407291	0.166667	-1.625	0	
12	N20	-1.407291	0.166667	3.791667	0	
13	N21	1.407291	0.166667	3.791667	0	
14	N18	0.075354	0.166667	-7.452817	0	
15	N19	6.49202	0.166667	3.661176	0	
16	N22	-6.492006	0.166667	3.66115	0	
17	N23	-0.075339	0.166667	-7.452842	0	
18	N26	0.408956	0.166667	-6.875	0	
19	N27	-0.408956	0.166667	-6.875	0	
20	N28	3.440045	0.166667	-1.625	0	
21	N29A	-3.440045	0.166667	-1.625	0	
22	N22A	-1.262954	0	0.729167	0	
23	N23A	-6.747781	0	3.895833	0	
24	N24A	1.262954	0	0.729167	0	
25	N25	6.747781	0	3.895833	0	
26	N28A	-1.407291	0	0.8125	0	
27	N29B	-1.407291	0.166667	0.8125	0	
28	N36	1.407291	0	0.8125	0	
29	N37	1.407291	0.166667	0.8125	0	
30	N30A	-5.953925	0	3.4375	0	
31	N31	-5.953925	0.166667	3.4375	0	
32	N32	-6.158403	0.166667	3.083333	0	
33	N33	-5.749446	0.166667	3.791667	0	
34	N34	5.953925	0	3.4375	0	
35	N35	5.953925	0.166667	3.4375	0	
36	N36A	5.749446	0.166667	3.791667	0	
37	N37A	6.158403	0.166667	3.083333	0	
38	N44A	-0.	0.083333	-7.583333	0	
39	N56A	6.249985	3.166667	3.791667	0	
40	N57A	-6.250015	3.166667	3.791667	0	
41	N65	5.916652	-0.416667	4.041667	0	
42	N66A	5.916652	3.166667	4.041667	0	
43	N68	3.666652	3.166667	3.791667	0	
44	N70	1.166652	3.166667	3.791667	0	
45	N72	-1.750015	3.166667	3.791667	0	
46	N74	-3.916681	3.166667	3.791667	0	
47	N75	-5.583319	-0.416667	4.041667	0	
48	N76	-5.583319	3.166667	4.041667	0	
49	N78	5.916652	3.166667	3.791667	0	
50	N80	-5.583319	3.166667	3.791667	0	
51	N81	5.916652	6.583333	4.041667	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N82	-5.583319	6.583333	4.041667	0	
53	N87	3.666652	-1.5	4.041667	0	
54	N88	3.666652	6.5	4.041667	0	
55	N90	0.916652	1.75	3.791667	0	
56	N93	1.166652	-1.5	4.041667	0	
57	N94	1.166652	6.5	4.041667	0	
58	N99	-1.750015	-1.5	4.041667	0	
59	N100	-1.750015	6.5	4.041667	0	
60	N105	-3.916681	-1.5	4.041667	0	
61	N106	-3.916681	6.5	4.041667	0	
62	N131	3.666652	3.166667	4.041667	0	
63	N132	1.166652	3.166667	4.041667	0	
64	N133	-1.750015	3.166667	4.041667	0	
65	N134	-3.916681	3.166667	4.041667	0	
66	N69	5.916652	0.166667	4.041667	0	
67	N70A	3.666652	0.166667	3.791667	0	
68	N71	1.166652	0.166667	3.791667	0	
69	N73	-3.916681	0.166667	3.791667	0	
70	N74A	-5.583319	0.166667	4.041667	0	
71	N75A	5.916652	0.166667	3.791667	0	
72	N76A	-5.583319	0.166667	3.791667	0	
73	N77	3.666652	0.166667	4.041667	0	
74	N78A	1.166652	0.166667	4.041667	0	
75	N79	-1.750015	0.166667	4.041667	0	
76	N80A	-3.916681	0.166667	4.041667	0	
77	N80B	-1.740625	0.166667	3.791667	0	
78	N83	0.54186	-0.416667	-7.144804	0	
79	N84	0.54186	3.166667	-7.144804	0	
80	N85	1.450354	3.166667	-5.071247	0	
81	N86	2.700354	3.166667	-2.906184	0	
82	N87A	4.158687	3.166667	-0.380276	0	
83	N88A	5.24202	3.166667	1.496112	0	
84	N89	6.291845	-0.416667	2.814463	0	
85	N90A	6.291845	3.166667	2.814463	0	
86	N91	0.325354	3.166667	-7.019804	0	
87	N92	6.075346	3.166667	2.939475	0	
88	N93A	0.54186	6.583333	-7.144804	0	
89	N94A	6.291845	6.583333	2.814463	0	
90	N95	1.66686	-1.5	-5.196247	0	
91	N96	1.66686	6.5	-5.196247	0	
92	N97	2.825354	1.75	-2.689677	0	
93	N98	2.91686	-1.5	-3.031184	0	
94	N99A	2.91686	6.5	-3.031184	0	
95	N100A	4.375193	-1.5	-0.505276	0	
96	N101	4.375193	6.5	-0.505276	0	
97	N102	5.458527	-1.5	1.371112	0	
98	N103	5.458527	6.5	1.371112	0	
99	N104	1.66686	3.166667	-5.196247	0	
100	N105A	2.91686	3.166667	-3.031184	0	
101	N106A	4.375193	3.166667	-0.505276	0	
102	N107	5.458527	3.166667	1.371112	0	
103	N108	0.54186	0.166667	-7.144804	0	
104	N109	1.450354	0.166667	-5.071247	0	
105	N110	2.700354	0.166667	-2.906184	0	
106	N111	5.24202	0.166667	1.496112	0	
107	N112	6.291845	0.166667	2.814463	0	
108	N113	0.325354	0.166667	-7.019804	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N114	6.075346	0.166667	2.939475	0	
110	N115	1.66686	0.166667	-5.196247	0	
111	N116	2.91686	0.166667	-3.031184	0	
112	N117	4.375193	0.166667	-0.505276	0	
113	N118	5.458527	0.166667	1.371112	0	
114	N119	4.153992	0.166667	-0.388408	0	
115	N122	-6.458512	-0.416667	3.103138	0	
116	N123	-6.458512	3.166667	3.103138	0	
117	N124	-5.117006	3.166667	1.27958	0	
118	N125	-3.867006	3.166667	-0.885483	0	
119	N126	-2.408672	3.166667	-3.41139	0	
120	N127	-1.325339	3.166667	-5.287779	0	
121	N128	-0.708527	-0.416667	-6.856129	0	
122	N129	-0.708527	3.166667	-6.856129	0	
123	N130	-6.242006	3.166667	3.228138	0	
124	N131A	-0.492013	3.166667	-6.731142	0	
125	N132A	-6.458512	6.583333	3.103138	0	
126	N133A	-0.708527	6.583333	-6.856129	0	
127	N134A	-5.333512	-1.5	1.15458	0	
128	N135	-5.333512	6.5	1.15458	0	
129	N136	-3.742006	1.75	-1.101989	0	
130	N137	-4.083512	-1.5	-1.010483	0	
131	N138	-4.083512	6.5	-1.010483	0	
132	N139	-2.625179	-1.5	-3.53639	0	
133	N140	-2.625179	6.5	-3.53639	0	
134	N141	-1.541845	-1.5	-5.412779	0	
135	N142	-1.541845	6.5	-5.412779	0	
136	N143	-5.333512	3.166667	1.15458	0	
137	N144	-4.083512	3.166667	-1.010483	0	
138	N145	-2.625179	3.166667	-3.53639	0	
139	N146	-1.541845	3.166667	-5.412779	0	
140	N147	-6.458512	0.166667	3.103138	0	
141	N148	-5.117006	0.166667	1.27958	0	
142	N149	-3.867006	0.166667	-0.885483	0	
143	N150	-1.325339	0.166667	-5.287779	0	
144	N151	-0.708527	0.166667	-6.856129	0	
145	N152	-6.242006	0.166667	3.228138	0	
146	N153	-0.492013	0.166667	-6.731142	0	
147	N154	-5.333512	0.166667	1.15458	0	
148	N155	-4.083512	0.166667	-1.010483	0	
149	N156	-2.625179	0.166667	-3.53639	0	
150	N157	-1.541845	0.166667	-5.412779	0	
151	N158	-2.413367	0.166667	-3.403258	0	
152	N155A	4.249985	3.166667	3.791667	0	
153	N156A	-4.250015	3.166667	3.791667	0	
154	N157A	0.158687	3.166667	-7.308479	0	
155	N158A	6.408687	3.166667	3.516838	0	
156	N159	1.158687	3.166667	-5.576429	0	
157	N160	5.408687	3.166667	1.784787	0	
158	N161	-6.408672	3.166667	3.516813	0	
159	N162	-0.158672	3.166667	-7.308505	0	
160	N163	-5.408672	3.166667	1.784762	0	
161	N164	-1.158672	3.166667	-5.576454	0	
162	N165	4.249985	3.166667	3.625	0	
163	N166	-4.250015	3.166667	3.625	0	
164	N169	1.014349	3.166667	-5.493095	0	
165	N170	5.264349	3.166667	1.868121	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
166	N173	-5.264335	3.166667	1.868095	0	
167	N174	-1.014335	3.166667	-5.493121	0	
168	N171	-0.	-3	-1.458333	0	
169	N172	-0.	0	-5.458333	0	
170	N174A	-1.262954	-3	0.729167	0	
171	N175	-4.727055	0	2.729167	0	
172	N177	1.262954	-3	0.729167	0	
173	N178	4.727055	0	2.729167	0	
174	N177A	2.249985	3.166667	3.625	0	
175	N178A	-2.250015	3.166667	3.625	0	
176	N179	2.158687	3.166667	-3.844378	0	
177	N180	4.408687	3.166667	0.052736	0	
178	N181	-4.408672	3.166667	0.052711	0	
179	N182	-2.158687	3.166667	-3.844378	0	
180	N180A	2.249985	3.166667	3.791667	0	
181	N181A	-2.250015	3.166667	3.791667	0	
182	N182A	2.014349	3.166667	-3.761045	0	
183	N183	4.264349	3.166667	0.13607	0	
184	N186	-4.264335	3.166667	0.136044	0	
185	N187	-2.014335	3.166667	-3.76107	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	MOD Support Rail	PIPE_2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Face Horizontal	C5X6.7	Column	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055
4	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr. B ...	Typical	3.37	7.8	7.8	12.8
5	Support Rail	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
6	MOD Support Rail ...	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
7	MOD SUPPORT B...	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	MOD KICKER	LL3x3x3x6	Column	Single Angle	A36 Gr.36	Typical	2.18	4.97	1.9	.027
9	Crossmember	C5X6.7	Column	Channel	A36 Gr.36	Typical	1.97	.47	7.48	.055
10	Crossmember Angle	L4X3X4	Column	Single Angle	A36 Gr.36	Typical	1.69	1.33	2.75	.039
11	TES ANGLE	L4x3x3	Column	Single Angle	A36 Gr.36	Typical	1.277	1.046	2.127	.014
12	Face Bracing	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
13	Connection Plate	PL1/2X12_HRB	Column	RECT	A36 Gr.36	Typical	8.75	.182	223.307	.716
14	Threaded Rod	SR_0.625	Column	BAR	A36 Gr.36	Typical	.307	.007	.007	.015
15	TES PLATE	PL1/2x10	Column	Pipe	A36 Gr.36	Typical	5	.104	41.667	.404
16	Pipe 2.5	PIPE_2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N3			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
2	M2	N27	N26		90	Connection Pl...	Column	RECT	A36 Gr.36	Typical
3	FACE	N14	N13		180	Face Horizontal	Column	Channel	A36 Gr.36	Typical
4	M6	N9	N4			RIGID	None	None	RIGID	Typical
5	M17	N29A	N28		180	Crossmember	Column	Channel	A36 Gr.36	Typical
6	M14A	N29	N24			RIGID	None	None	RIGID	Typical
7	M8	N19	N18		180	Face Horizontal	Column	Channel	A36 Gr.36	Typical
8	M9	N23	N22		180	Face Horizontal	Column	Channel	A36 Gr.36	Typical
9	M9A	N21	N33A		90	Crossmember ...	Column	Single Angle	A36 Gr.36	Typical
10	M10	N30	N20		90	Crossmember ...	Column	Single Angle	A36 Gr.36	Typical
11	M11	N22A	N23A			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
12	M12	N24A	N25			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
13	M13	N29B	N28A			RIGID	None	None	RIGID	Typical
14	M14	N37	N36			RIGID	None	None	RIGID	Typical
15	M15	N33	N32		90	Connection Pl...	Column	RECT	A36 Gr.36	Typical
16	M16	N31	N30A			RIGID	None	None	RIGID	Typical
17	M17A	N37A	N36A		90	Connection Pl...	Column	RECT	A36 Gr.36	Typical
18	M18	N35	N34			RIGID	None	None	RIGID	Typical
19	OVP	N57A	N56A			MOD Support ...	Column	Pipe	A53 Gr. B	Typical
20	MP1A	N81	N65			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
21	MP6A	N82	N75			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
22	M52	N76	N80			RIGID	None	None	RIGID	Typical
23	M55	N66A	N78			RIGID	None	None	RIGID	Typical
24	MP2A	N88	N87			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
25	MP3A	N94	N93			Pipe 2.5	Column	Pipe	A53 Gr. B	Typical
26	MP4A	N100	N99			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
27	MP5A	N106	N105			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
28	M94	N74	N134			RIGID	None	None	RIGID	Typical
29	M95	N72	N133			RIGID	None	None	RIGID	Typical
30	M96	N70	N132			RIGID	None	None	RIGID	Typical
31	M97	N68	N131			RIGID	None	None	RIGID	Typical
32	M38	N74A	N76A			RIGID	None	None	RIGID	Typical
33	M39	N69	N75A			RIGID	None	None	RIGID	Typical
34	M40	N73	N80A			RIGID	None	None	RIGID	Typical
35	LL2	N80B	N79			RIGID	None	None	RIGID	Typical
36	LL1	N71	N78A			RIGID	None	None	RIGID	Typical
37	LIVE2	N70A	N77			RIGID	None	None	RIGID	Typical
38	MP1C	N93A	N83			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
39	MP6C	N94A	N89			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
40	M47	N90A	N92			RIGID	None	None	RIGID	Typical
41	M48	N84	N91			RIGID	None	None	RIGID	Typical
42	MP2C	N96	N95			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
43	MP3C	N99A	N98			Pipe 2.5	Column	Pipe	A53 Gr. B	Typical
44	MP4C	N101	N100A			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
45	MP5C	N103	N102			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M53	N88A	N107			RIGID	None	None	RIGID	Typical
47	M54	N87A	N106A			RIGID	None	None	RIGID	Typical
48	M55A	N86	N105A			RIGID	None	None	RIGID	Typical
49	M56	N85	N104			RIGID	None	None	RIGID	Typical
50	M57	N112	N114			RIGID	None	None	RIGID	Typical
51	M58	N108	N113			RIGID	None	None	RIGID	Typical
52	M59	N111	N118			RIGID	None	None	RIGID	Typical
53	M60	N119	N117			RIGID	None	None	RIGID	Typical
54	M61	N110	N116			RIGID	None	None	RIGID	Typical
55	M62	N109	N115			RIGID	None	None	RIGID	Typical
56	MP1B	N132A	N122			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
57	MP6B	N133A	N128			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
58	M66	N129	N131A			RIGID	None	None	RIGID	Typical
59	M67	N123	N130			RIGID	None	None	RIGID	Typical
60	MP2B	N135	N134A			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
61	MP3B	N138	N137			Pipe 2.5	Column	Pipe	A53 Gr. B	Typical
62	MP4B	N140	N139			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
63	MP5B	N142	N141			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
64	M72	N127	N146			RIGID	None	None	RIGID	Typical
65	M73	N126	N145			RIGID	None	None	RIGID	Typical
66	M74	N125	N144			RIGID	None	None	RIGID	Typical
67	M75	N124	N143			RIGID	None	None	RIGID	Typical
68	M76	N151	N153			RIGID	None	None	RIGID	Typical
69	M77	N147	N152			RIGID	None	None	RIGID	Typical
70	M78	N150	N157			RIGID	None	None	RIGID	Typical
71	M79	N158	N156			RIGID	None	None	RIGID	Typical
72	M80	N149	N155			RIGID	None	None	RIGID	Typical
73	M81	N148	N154			RIGID	None	None	RIGID	Typical
74	M80A	N158A	N157A			MOD Support ...	Column	Pipe	A53 Gr. B	Typical
75	M81A	N162	N161			MOD Support ...	Column	Pipe	A53 Gr. B	Typical
76	M82	N155A	N165			RIGID	None	None	RIGID	Typical
77	M83	N156A	N166			RIGID	None	None	RIGID	Typical
78	M84	N159	N169			RIGID	None	None	RIGID	Typical
79	M85	N160	N170			RIGID	None	None	RIGID	Typical
80	M86	N163	N173			RIGID	None	None	RIGID	Typical
81	M87	N164	N174			RIGID	None	None	RIGID	Typical
82	M88	N173	N166		180	MOD Support ...	Column	Single Angle	A36 Gr.36	Typical
83	M95A	N165	N170		180	MOD Support ...	Column	Single Angle	A36 Gr.36	Typical
84	M102	N169	N174		180	MOD Support ...	Column	Single Angle	A36 Gr.36	Typical
85	M91	N171	N172			MOD KICKER	Column	Single Angle	A36 Gr.36	Typical
86	M92	N174A	N175			MOD KICKER	Column	Single Angle	A36 Gr.36	Typical
87	M93	N177	N178			MOD KICKER	Column	Single Angle	A36 Gr.36	Typical
88	M94A	N186	N178A		180	MOD SUPPO...	Column	Single Angle	A36 Gr.36	Typical
89	M95B	N177A	N183		180	MOD SUPPO...	Column	Single Angle	A36 Gr.36	Typical
90	M96A	N182A	N187		180	MOD SUPPO...	Column	Single Angle	A36 Gr.36	Typical
91	M91A	N181A	N178A			RIGID	None	None	RIGID	Typical
92	M92A	N180A	N177A			RIGID	None	None	RIGID	Typical
93	M93A	N180	N183			RIGID	None	None	RIGID	Typical
94	M94B	N179	N182A			RIGID	None	None	RIGID	Typical
95	M95C	N182	N187			RIGID	None	None	RIGID	Typical
96	M96B	N181	N186			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				None
2	M2						Yes	** NA **			None
3	FACE						Yes	** NA **			None
4	M6						Yes	** NA **			None
5	M17	OOOOOX	OOOOOX				Yes	** NA **			None
6	M14A					Compres...	Yes	** NA **			None
7	M8						Yes	** NA **			None
8	M9						Yes	** NA **			None
9	M9A	OOOOXO	OOOOXO				Yes	** NA **			None
10	M10	OOOOXO	OOOOXO				Yes	** NA **			None
11	M11						Yes				None
12	M12						Yes				None
13	M13					Compres...	Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
14	M14					Compres...	Yes	** NA **			None
15	M15						Yes	** NA **			None
16	M16						Yes	** NA **			None
17	M17A						Yes	** NA **			None
18	M18						Yes	** NA **			None
19	OVP						Yes	** NA **			None
20	MP1A						Yes	** NA **			None
21	MP6A						Yes	** NA **			None
22	M52						Yes	** NA **			None
23	M55						Yes	** NA **			None
24	MP2A						Yes	** NA **			None
25	MP3A						Yes	** NA **			None
26	MP4A						Yes	** NA **			None
27	MP5A						Yes	** NA **			None
28	M94						Yes	** NA **			None
29	M95						Yes	** NA **			None
30	M96						Yes	** NA **			None
31	M97						Yes	** NA **			None
32	M38						Yes	** NA **			None
33	M39						Yes	** NA **			None
34	M40						Yes	** NA **			None
35	LL2						Yes	** NA **			None
36	LL1						Yes	** NA **			None
37	LIVE2						Yes	** NA **			None
38	MP1C						Yes	** NA **			None
39	MP6C						Yes	** NA **			None
40	M47						Yes	** NA **			None
41	M48						Yes	** NA **			None
42	MP2C						Yes	** NA **			None
43	MP3C						Yes	** NA **			None
44	MP4C						Yes	** NA **			None
45	MP5C						Yes	** NA **			None
46	M53						Yes	** NA **			None
47	M54						Yes	** NA **			None
48	M55A						Yes	** NA **			None
49	M56						Yes	** NA **			None
50	M57						Yes	** NA **			None
51	M58						Yes	** NA **			None
52	M59						Yes	** NA **			None
53	M60						Yes	** NA **			None
54	M61						Yes	** NA **			None
55	M62						Yes	** NA **			None
56	MP1B						Yes	** NA **			None
57	MP6B						Yes	** NA **			None
58	M66						Yes	** NA **			None
59	M67						Yes	** NA **			None
60	MP2B						Yes	** NA **			None
61	MP3B						Yes	** NA **			None
62	MP4B						Yes	** NA **			None
63	MP5B						Yes	** NA **			None
64	M72						Yes	** NA **			None
65	M73						Yes	** NA **			None
66	M74						Yes	** NA **			None
67	M75						Yes	** NA **			None
68	M76						Yes	** NA **			None
69	M77						Yes	** NA **			None
70	M78						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
71	M79						Yes	** NA **			None
72	M80						Yes	** NA **			None
73	M81						Yes	** NA **			None
74	M80A						Yes	** NA **			None
75	M81A						Yes	** NA **			None
76	M82	OOOOOX					Yes	** NA **			None
77	M83	OOOOOX					Yes	** NA **			None
78	M84	OOOOOX					Yes	** NA **			None
79	M85	OOOOOX					Yes	** NA **			None
80	M86	OOOOOX					Yes	** NA **			None
81	M87	OOOOOX					Yes	** NA **			None
82	M88						Yes	** NA **			None
83	M95A						Yes	** NA **			None
84	M102						Yes	** NA **			None
85	M91	BenPIN	BenPIN				Yes	** NA **			None
86	M92	BenPIN	BenPIN				Yes	** NA **			None
87	M93	BenPIN	BenPIN				Yes	** NA **			None
88	M94A						Yes	** NA **			None
89	M95B						Yes	** NA **			None
90	M96A						Yes	** NA **			None
91	M91A	OOOOOX					Yes	** NA **			None
92	M92A	OOOOOX					Yes	** NA **			None
93	M93A	OOOOOX					Yes	** NA **			None
94	M94B	OOOOOX					Yes	** NA **			None
95	M95C	OOOOOX					Yes	** NA **			None
96	M96B	OOOOOX					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-28.65	3
2	MP4A	My	-.019	3
3	MP4A	Mz	0	3
4	MP4A	Y	-28.65	5
5	MP4A	My	-.019	5
6	MP4A	Mz	0	5
7	MP4B	Y	-28.65	3
8	MP4B	My	.01	3
9	MP4B	Mz	-.017	3
10	MP4B	Y	-28.65	5
11	MP4B	My	.01	5
12	MP4B	Mz	-.017	5
13	MP4C	Y	-28.65	3
14	MP4C	My	.01	3
15	MP4C	Mz	.017	3
16	MP4C	Y	-28.65	5
17	MP4C	My	.01	5
18	MP4C	Mz	.017	5
19	MP3A	Y	-74.7	4
20	MP3A	My	.037	4
21	MP3A	Mz	0	4
22	MP3B	Y	-74.7	4
23	MP3B	My	-.019	4
24	MP3B	Mz	.032	4
25	MP3C	Y	-74.7	4
26	MP3C	My	-.019	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3C	Mz	-.032	4
28	MP4A	Y	-79.1	4
29	MP4A	My	.04	4
30	MP4A	Mz	0	4
31	MP4B	Y	-79.1	4
32	MP4B	My	-.02	4
33	MP4B	Mz	.034	4
34	MP4C	Y	-79.1	4
35	MP4C	My	-.02	4
36	MP4C	Mz	-.034	4
37	MP1A	Y	-5.25	2
38	MP1A	My	-.003	2
39	MP1A	Mz	0	2
40	MP1A	Y	-5.25	6
41	MP1A	My	-.003	6
42	MP1A	Mz	0	6
43	MP1B	Y	-5.25	2
44	MP1B	My	.001	2
45	MP1B	Mz	-.002	2
46	MP1B	Y	-5.25	6
47	MP1B	My	.001	6
48	MP1B	Mz	-.002	6
49	MP1C	Y	-5.25	2
50	MP1C	My	.001	2
51	MP1C	Mz	.002	2
52	MP1C	Y	-5.25	6
53	MP1C	My	.001	6
54	MP1C	Mz	.002	6
55	MP5A	Y	-5.25	2
56	MP5A	My	-.003	2
57	MP5A	Mz	0	2
58	MP5A	Y	-5.25	6
59	MP5A	My	-.003	6
60	MP5A	Mz	0	6
61	MP5B	Y	-5.25	2
62	MP5B	My	.001	2
63	MP5B	Mz	-.002	2
64	MP5B	Y	-5.25	6
65	MP5B	My	.001	6
66	MP5B	Mz	-.002	6
67	MP5C	Y	-5.25	2
68	MP5C	My	.001	2
69	MP5C	Mz	.002	2
70	MP5C	Y	-5.25	6
71	MP5C	My	.001	6
72	MP5C	Mz	.002	6
73	MP3A	Y	-23	2
74	MP3A	My	-.011	2
75	MP3A	Mz	.015	2
76	MP3A	Y	-23	6
77	MP3A	My	-.011	6
78	MP3A	Mz	.015	6
79	MP3B	Y	-23	2
80	MP3B	My	-.008	2
81	MP3B	Mz	-.018	2
82	MP3B	Y	-23	6
83	MP3B	My	-.008	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP3B	Mz	-.018	6
85	MP3C	Y	-23	2
86	MP3C	My	.019	2
87	MP3C	Mz	.002	2
88	MP3C	Y	-23	6
89	MP3C	My	.019	6
90	MP3C	Mz	.002	6
91	MP3A	Y	-23	2
92	MP3A	My	-.011	2
93	MP3A	Mz	-.015	2
94	MP3A	Y	-23	6
95	MP3A	My	-.011	6
96	MP3A	Mz	-.015	6
97	MP3B	Y	-23	2
98	MP3B	My	.019	2
99	MP3B	Mz	-.002	2
100	MP3B	Y	-23	6
101	MP3B	My	.019	6
102	MP3B	Mz	-.002	6
103	MP3C	Y	-23	2
104	MP3C	My	-.008	2
105	MP3C	Mz	.018	2
106	MP3C	Y	-23	6
107	MP3C	My	-.008	6
108	MP3C	Mz	.018	6
109	MP6A	Y	-32	2
110	MP6A	My	0	2
111	MP6A	Mz	0	2
112	MP1A	Y	-10	0
113	MP1A	My	0	0
114	MP1A	Mz	0	0

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-28.814	3
2	MP4A	My	-.019	3
3	MP4A	Mz	0	3
4	MP4A	Y	-28.814	5
5	MP4A	My	-.019	5
6	MP4A	Mz	0	5
7	MP4B	Y	-28.814	3
8	MP4B	My	.01	3
9	MP4B	Mz	-.017	3
10	MP4B	Y	-28.814	5
11	MP4B	My	.01	5
12	MP4B	Mz	-.017	5
13	MP4C	Y	-28.814	3
14	MP4C	My	.01	3
15	MP4C	Mz	.017	3
16	MP4C	Y	-28.814	5
17	MP4C	My	.01	5
18	MP4C	Mz	.017	5
19	MP3A	Y	-43.434	4
20	MP3A	My	.022	4
21	MP3A	Mz	0	4
22	MP3B	Y	-43.434	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP3B	My	-.011	4
24	MP3B	Mz	.019	4
25	MP3C	Y	-43.434	4
26	MP3C	My	-.011	4
27	MP3C	Mz	-.019	4
28	MP4A	Y	-43.896	4
29	MP4A	My	.022	4
30	MP4A	Mz	0	4
31	MP4B	Y	-43.896	4
32	MP4B	My	-.011	4
33	MP4B	Mz	.019	4
34	MP4C	Y	-43.896	4
35	MP4C	My	-.011	4
36	MP4C	Mz	-.019	4
37	MP1A	Y	-22.72	2
38	MP1A	My	-.011	2
39	MP1A	Mz	0	2
40	MP1A	Y	-22.72	6
41	MP1A	My	-.011	6
42	MP1A	Mz	0	6
43	MP1B	Y	-22.72	2
44	MP1B	My	.006	2
45	MP1B	Mz	-.01	2
46	MP1B	Y	-22.72	6
47	MP1B	My	.006	6
48	MP1B	Mz	-.01	6
49	MP1C	Y	-22.72	2
50	MP1C	My	.006	2
51	MP1C	Mz	.01	2
52	MP1C	Y	-22.72	6
53	MP1C	My	.006	6
54	MP1C	Mz	.01	6
55	MP5A	Y	-22.72	2
56	MP5A	My	-.011	2
57	MP5A	Mz	0	2
58	MP5A	Y	-22.72	6
59	MP5A	My	-.011	6
60	MP5A	Mz	0	6
61	MP5B	Y	-22.72	2
62	MP5B	My	.006	2
63	MP5B	Mz	-.01	2
64	MP5B	Y	-22.72	6
65	MP5B	My	.006	6
66	MP5B	Mz	-.01	6
67	MP5C	Y	-22.72	2
68	MP5C	My	.006	2
69	MP5C	Mz	.01	2
70	MP5C	Y	-22.72	6
71	MP5C	My	.006	6
72	MP5C	Mz	.01	6
73	MP3A	Y	-80.049	2
74	MP3A	My	-.04	2
75	MP3A	Mz	.053	2
76	MP3A	Y	-80.049	6
77	MP3A	My	-.04	6
78	MP3A	Mz	.053	6
79	MP3B	Y	-80.049	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3B	My	-.026	2
81	MP3B	Mz	-.061	2
82	MP3B	Y	-80.049	6
83	MP3B	My	-.026	6
84	MP3B	Mz	-.061	6
85	MP3C	Y	-80.049	2
86	MP3C	My	.066	2
87	MP3C	Mz	.008	2
88	MP3C	Y	-80.049	6
89	MP3C	My	.066	6
90	MP3C	Mz	.008	6
91	MP3A	Y	-80.049	2
92	MP3A	My	-.04	2
93	MP3A	Mz	-.053	2
94	MP3A	Y	-80.049	6
95	MP3A	My	-.04	6
96	MP3A	Mz	-.053	6
97	MP3B	Y	-80.049	2
98	MP3B	My	.066	2
99	MP3B	Mz	-.008	2
100	MP3B	Y	-80.049	6
101	MP3B	My	.066	6
102	MP3B	Mz	-.008	6
103	MP3C	Y	-80.049	2
104	MP3C	My	-.026	2
105	MP3C	Mz	.061	2
106	MP3C	Y	-80.049	6
107	MP3C	My	-.026	6
108	MP3C	Mz	.061	6
109	MP6A	Y	-73.527	2
110	MP6A	My	0	2
111	MP6A	Mz	0	2
112	MP1A	Y	-10.825	0
113	MP1A	My	0	0
114	MP1A	Mz	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	3
2	MP4A	Z	-75.605	3
3	MP4A	Mx	0	3
4	MP4A	X	0	5
5	MP4A	Z	-75.605	5
6	MP4A	Mx	0	5
7	MP4B	X	0	3
8	MP4B	Z	-40.741	3
9	MP4B	Mx	.024	3
10	MP4B	X	0	5
11	MP4B	Z	-40.741	5
12	MP4B	Mx	.024	5
13	MP4C	X	0	3
14	MP4C	Z	-40.741	3
15	MP4C	Mx	-.024	3
16	MP4C	X	0	5
17	MP4C	Z	-40.741	5
18	MP4C	Mx	-.024	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP3A	X	0	4
20	MP3A	Z	-61.841	4
21	MP3A	Mx	0	4
22	MP3B	X	0	4
23	MP3B	Z	-46.58	4
24	MP3B	Mx	-.02	4
25	MP3C	X	0	4
26	MP3C	Z	-46.58	4
27	MP3C	Mx	.02	4
28	MP4A	X	0	4
29	MP4A	Z	-74.608	4
30	MP4A	Mx	0	4
31	MP4B	X	0	4
32	MP4B	Z	-56.804	4
33	MP4B	Mx	-.025	4
34	MP4C	X	0	4
35	MP4C	Z	-56.804	4
36	MP4C	Mx	.025	4
37	MP1A	X	0	2
38	MP1A	Z	-58.649	2
39	MP1A	Mx	0	2
40	MP1A	X	0	6
41	MP1A	Z	-58.649	6
42	MP1A	Mx	0	6
43	MP1B	X	0	2
44	MP1B	Z	-46.912	2
45	MP1B	Mx	.02	2
46	MP1B	X	0	6
47	MP1B	Z	-46.912	6
48	MP1B	Mx	.02	6
49	MP1C	X	0	2
50	MP1C	Z	-46.912	2
51	MP1C	Mx	-.02	2
52	MP1C	X	0	6
53	MP1C	Z	-46.912	6
54	MP1C	Mx	-.02	6
55	MP5A	X	0	2
56	MP5A	Z	-58.649	2
57	MP5A	Mx	0	2
58	MP5A	X	0	6
59	MP5A	Z	-58.649	6
60	MP5A	Mx	0	6
61	MP5B	X	0	2
62	MP5B	Z	-46.912	2
63	MP5B	Mx	.02	2
64	MP5B	X	0	6
65	MP5B	Z	-46.912	6
66	MP5B	Mx	.02	6
67	MP5C	X	0	2
68	MP5C	Z	-46.912	2
69	MP5C	Mx	-.02	2
70	MP5C	X	0	6
71	MP5C	Z	-46.912	6
72	MP5C	Mx	-.02	6
73	MP3A	X	0	2
74	MP3A	Z	-94.74	2
75	MP3A	Mx	-.063	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP3A	X	0	6
77	MP3A	Z	-94.74	6
78	MP3A	Mx	-.063	6
79	MP3B	X	0	2
80	MP3B	Z	-76.863	2
81	MP3B	Mx	.059	2
82	MP3B	X	0	6
83	MP3B	Z	-76.863	6
84	MP3B	Mx	.059	6
85	MP3C	X	0	2
86	MP3C	Z	-76.863	2
87	MP3C	Mx	-.008	2
88	MP3C	X	0	6
89	MP3C	Z	-76.863	6
90	MP3C	Mx	-.008	6
91	MP3A	X	0	2
92	MP3A	Z	-94.74	2
93	MP3A	Mx	.063	2
94	MP3A	X	0	6
95	MP3A	Z	-94.74	6
96	MP3A	Mx	.063	6
97	MP3B	X	0	2
98	MP3B	Z	-76.863	2
99	MP3B	Mx	.008	2
100	MP3B	X	0	6
101	MP3B	Z	-76.863	6
102	MP3B	Mx	.008	6
103	MP3C	X	0	2
104	MP3C	Z	-76.863	2
105	MP3C	Mx	-.059	2
106	MP3C	X	0	6
107	MP3C	Z	-76.863	6
108	MP3C	Mx	-.059	6
109	MP6A	X	0	2
110	MP6A	Z	-97.067	2
111	MP6A	Mx	0	2
112	MP1A	X	0	0
113	MP1A	Z	-24.42	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	31.992	3
2	MP4A	Z	-55.412	3
3	MP4A	Mx	-.021	3
4	MP4A	X	31.992	5
5	MP4A	Z	-55.412	5
6	MP4A	Mx	-.021	5
7	MP4B	X	14.56	3
8	MP4B	Z	-25.218	3
9	MP4B	Mx	.019	3
10	MP4B	X	14.56	5
11	MP4B	Z	-25.218	5
12	MP4B	Mx	.019	5
13	MP4C	X	31.992	3
14	MP4C	Z	-55.412	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4C	Mx	-.021	3
16	MP4C	X	31.992	5
17	MP4C	Z	-55.412	5
18	MP4C	Mx	-.021	5
19	MP3A	X	28.377	4
20	MP3A	Z	-49.15	4
21	MP3A	Mx	.014	4
22	MP3B	X	20.747	4
23	MP3B	Z	-35.934	4
24	MP3B	Mx	-.021	4
25	MP3C	X	28.377	4
26	MP3C	Z	-49.15	4
27	MP3C	Mx	.014	4
28	MP4A	X	34.337	4
29	MP4A	Z	-59.473	4
30	MP4A	Mx	.017	4
31	MP4B	X	25.434	4
32	MP4B	Z	-44.054	4
33	MP4B	Mx	-.025	4
34	MP4C	X	34.337	4
35	MP4C	Z	-59.473	4
36	MP4C	Mx	.017	4
37	MP1A	X	27.368	2
38	MP1A	Z	-47.403	2
39	MP1A	Mx	-.014	2
40	MP1A	X	27.368	6
41	MP1A	Z	-47.403	6
42	MP1A	Mx	-.014	6
43	MP1B	X	21.5	2
44	MP1B	Z	-37.239	2
45	MP1B	Mx	.021	2
46	MP1B	X	21.5	6
47	MP1B	Z	-37.239	6
48	MP1B	Mx	.021	6
49	MP1C	X	27.368	2
50	MP1C	Z	-47.403	2
51	MP1C	Mx	-.014	2
52	MP1C	X	27.368	6
53	MP1C	Z	-47.403	6
54	MP1C	Mx	-.014	6
55	MP5A	X	27.368	2
56	MP5A	Z	-47.403	2
57	MP5A	Mx	-.014	2
58	MP5A	X	27.368	6
59	MP5A	Z	-47.403	6
60	MP5A	Mx	-.014	6
61	MP5B	X	21.5	2
62	MP5B	Z	-37.239	2
63	MP5B	Mx	.021	2
64	MP5B	X	21.5	6
65	MP5B	Z	-37.239	6
66	MP5B	Mx	.021	6
67	MP5C	X	27.368	2
68	MP5C	Z	-47.403	2
69	MP5C	Mx	-.014	2
70	MP5C	X	27.368	6
71	MP5C	Z	-47.403	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP5C	Mx	-.014	6
73	MP3A	X	44.39	2
74	MP3A	Z	-76.887	2
75	MP3A	Mx	-.073	2
76	MP3A	X	44.39	6
77	MP3A	Z	-76.887	6
78	MP3A	Mx	-.073	6
79	MP3B	X	35.452	2
80	MP3B	Z	-61.405	2
81	MP3B	Mx	.035	2
82	MP3B	X	35.452	6
83	MP3B	Z	-61.405	6
84	MP3B	Mx	.035	6
85	MP3C	X	44.39	2
86	MP3C	Z	-76.887	2
87	MP3C	Mx	.029	2
88	MP3C	X	44.39	6
89	MP3C	Z	-76.887	6
90	MP3C	Mx	.029	6
91	MP3A	X	44.39	2
92	MP3A	Z	-76.887	2
93	MP3A	Mx	.029	2
94	MP3A	X	44.39	6
95	MP3A	Z	-76.887	6
96	MP3A	Mx	.029	6
97	MP3B	X	35.452	2
98	MP3B	Z	-61.405	2
99	MP3B	Mx	.035	2
100	MP3B	X	35.452	6
101	MP3B	Z	-61.405	6
102	MP3B	Mx	.035	6
103	MP3C	X	44.39	2
104	MP3C	Z	-76.887	2
105	MP3C	Mx	-.073	2
106	MP3C	X	44.39	6
107	MP3C	Z	-76.887	6
108	MP3C	Mx	-.073	6
109	MP6A	X	54.34	2
110	MP6A	Z	-94.12	2
111	MP6A	Mx	0	2
112	MP1A	X	15.266	0
113	MP1A	Z	-26.442	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	35.283	3
2	MP4A	Z	-20.37	3
3	MP4A	Mx	-.024	3
4	MP4A	X	35.283	5
5	MP4A	Z	-20.37	5
6	MP4A	Mx	-.024	5
7	MP4B	X	35.283	3
8	MP4B	Z	-20.37	3
9	MP4B	Mx	.024	3
10	MP4B	X	35.283	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP4B	Z	-20.37	5
12	MP4B	Mx	.024	5
13	MP4C	X	65.476	3
14	MP4C	Z	-37.803	3
15	MP4C	Mx	0	3
16	MP4C	X	65.476	5
17	MP4C	Z	-37.803	5
18	MP4C	Mx	0	5
19	MP3A	X	40.339	4
20	MP3A	Z	-23.29	4
21	MP3A	Mx	.02	4
22	MP3B	X	40.339	4
23	MP3B	Z	-23.29	4
24	MP3B	Mx	-.02	4
25	MP3C	X	53.556	4
26	MP3C	Z	-30.92	4
27	MP3C	Mx	0	4
28	MP4A	X	49.193	4
29	MP4A	Z	-28.402	4
30	MP4A	Mx	.025	4
31	MP4B	X	49.193	4
32	MP4B	Z	-28.402	4
33	MP4B	Mx	-.025	4
34	MP4C	X	64.612	4
35	MP4C	Z	-37.304	4
36	MP4C	Mx	0	4
37	MP1A	X	40.627	2
38	MP1A	Z	-23.456	2
39	MP1A	Mx	-.02	2
40	MP1A	X	40.627	6
41	MP1A	Z	-23.456	6
42	MP1A	Mx	-.02	6
43	MP1B	X	40.627	2
44	MP1B	Z	-23.456	2
45	MP1B	Mx	.02	2
46	MP1B	X	40.627	6
47	MP1B	Z	-23.456	6
48	MP1B	Mx	.02	6
49	MP1C	X	50.791	2
50	MP1C	Z	-29.324	2
51	MP1C	Mx	0	2
52	MP1C	X	50.791	6
53	MP1C	Z	-29.324	6
54	MP1C	Mx	0	6
55	MP5A	X	40.627	2
56	MP5A	Z	-23.456	2
57	MP5A	Mx	-.02	2
58	MP5A	X	40.627	6
59	MP5A	Z	-23.456	6
60	MP5A	Mx	-.02	6
61	MP5B	X	40.627	2
62	MP5B	Z	-23.456	2
63	MP5B	Mx	.02	2
64	MP5B	X	40.627	6
65	MP5B	Z	-23.456	6
66	MP5B	Mx	.02	6
67	MP5C	X	50.791	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP5C	Z	-29.324	2
69	MP5C	Mx	0	2
70	MP5C	X	50.791	6
71	MP5C	Z	-29.324	6
72	MP5C	Mx	0	6
73	MP3A	X	66.566	2
74	MP3A	Z	-38.432	2
75	MP3A	Mx	-.059	2
76	MP3A	X	66.566	6
77	MP3A	Z	-38.432	6
78	MP3A	Mx	-.059	6
79	MP3B	X	66.566	2
80	MP3B	Z	-38.432	2
81	MP3B	Mx	.008	2
82	MP3B	X	66.566	6
83	MP3B	Z	-38.432	6
84	MP3B	Mx	.008	6
85	MP3C	X	82.047	2
86	MP3C	Z	-47.37	2
87	MP3C	Mx	.063	2
88	MP3C	X	82.047	6
89	MP3C	Z	-47.37	6
90	MP3C	Mx	.063	6
91	MP3A	X	66.566	2
92	MP3A	Z	-38.432	2
93	MP3A	Mx	-.008	2
94	MP3A	X	66.566	6
95	MP3A	Z	-38.432	6
96	MP3A	Mx	-.008	6
97	MP3B	X	66.566	2
98	MP3B	Z	-38.432	2
99	MP3B	Mx	.059	2
100	MP3B	X	66.566	6
101	MP3B	Z	-38.432	6
102	MP3B	Mx	.059	6
103	MP3C	X	82.047	2
104	MP3C	Z	-47.37	2
105	MP3C	Mx	-.063	2
106	MP3C	X	82.047	6
107	MP3C	Z	-47.37	6
108	MP3C	Mx	-.063	6
109	MP6A	X	106.458	2
110	MP6A	Z	-61.464	2
111	MP6A	Mx	0	2
112	MP1A	X	32.935	0
113	MP1A	Z	-19.015	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	29.119	3
2	MP4A	Z	0	3
3	MP4A	Mx	-.019	3
4	MP4A	X	29.119	5
5	MP4A	Z	0	5
6	MP4A	Mx	-.019	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP4B	X	63.984	3
8	MP4B	Z	0	3
9	MP4B	Mx	.021	3
10	MP4B	X	63.984	5
11	MP4B	Z	0	5
12	MP4B	Mx	.021	5
13	MP4C	X	63.984	3
14	MP4C	Z	0	3
15	MP4C	Mx	.021	3
16	MP4C	X	63.984	5
17	MP4C	Z	0	5
18	MP4C	Mx	.021	5
19	MP3A	X	41.493	4
20	MP3A	Z	0	4
21	MP3A	Mx	.021	4
22	MP3B	X	56.754	4
23	MP3B	Z	0	4
24	MP3B	Mx	-.014	4
25	MP3C	X	56.754	4
26	MP3C	Z	0	4
27	MP3C	Mx	-.014	4
28	MP4A	X	50.869	4
29	MP4A	Z	0	4
30	MP4A	Mx	.025	4
31	MP4B	X	68.673	4
32	MP4B	Z	0	4
33	MP4B	Mx	-.017	4
34	MP4C	X	68.673	4
35	MP4C	Z	0	4
36	MP4C	Mx	-.017	4
37	MP1A	X	43	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.021	2
40	MP1A	X	43	6
41	MP1A	Z	0	6
42	MP1A	Mx	-.021	6
43	MP1B	X	54.737	2
44	MP1B	Z	0	2
45	MP1B	Mx	.014	2
46	MP1B	X	54.737	6
47	MP1B	Z	0	6
48	MP1B	Mx	.014	6
49	MP1C	X	54.737	2
50	MP1C	Z	0	2
51	MP1C	Mx	.014	2
52	MP1C	X	54.737	6
53	MP1C	Z	0	6
54	MP1C	Mx	.014	6
55	MP5A	X	43	2
56	MP5A	Z	0	2
57	MP5A	Mx	-.021	2
58	MP5A	X	43	6
59	MP5A	Z	0	6
60	MP5A	Mx	-.021	6
61	MP5B	X	54.737	2
62	MP5B	Z	0	2
63	MP5B	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP5B	X	54.737	6
65	MP5B	Z	0	6
66	MP5B	Mx	.014	6
67	MP5C	X	54.737	2
68	MP5C	Z	0	2
69	MP5C	Mx	.014	2
70	MP5C	X	54.737	6
71	MP5C	Z	0	6
72	MP5C	Mx	.014	6
73	MP3A	X	70.905	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.035	2
76	MP3A	X	70.905	6
77	MP3A	Z	0	6
78	MP3A	Mx	-.035	6
79	MP3B	X	88.781	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.029	2
82	MP3B	X	88.781	6
83	MP3B	Z	0	6
84	MP3B	Mx	-.029	6
85	MP3C	X	88.781	2
86	MP3C	Z	0	2
87	MP3C	Mx	.073	2
88	MP3C	X	88.781	6
89	MP3C	Z	0	6
90	MP3C	Mx	.073	6
91	MP3A	X	70.905	2
92	MP3A	Z	0	2
93	MP3A	Mx	-.035	2
94	MP3A	X	70.905	6
95	MP3A	Z	0	6
96	MP3A	Mx	-.035	6
97	MP3B	X	88.781	2
98	MP3B	Z	0	2
99	MP3B	Mx	.073	2
100	MP3B	X	88.781	6
101	MP3B	Z	0	6
102	MP3B	Mx	.073	6
103	MP3C	X	88.781	2
104	MP3C	Z	0	2
105	MP3C	Mx	-.029	2
106	MP3C	X	88.781	6
107	MP3C	Z	0	6
108	MP3C	Mx	-.029	6
109	MP6A	X	125.56	2
110	MP6A	Z	0	2
111	MP6A	Mx	0	2
112	MP1A	X	39.416	0
113	MP1A	Z	0	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	35.283	3
2	MP4A	Z	20.37	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP4A	Mx	-.024	3
4	MP4A	X	35.283	5
5	MP4A	Z	20.37	5
6	MP4A	Mx	-.024	5
7	MP4B	X	65.476	3
8	MP4B	Z	37.803	3
9	MP4B	Mx	0	3
10	MP4B	X	65.476	5
11	MP4B	Z	37.803	5
12	MP4B	Mx	0	5
13	MP4C	X	35.283	3
14	MP4C	Z	20.37	3
15	MP4C	Mx	.024	3
16	MP4C	X	35.283	5
17	MP4C	Z	20.37	5
18	MP4C	Mx	.024	5
19	MP3A	X	40.339	4
20	MP3A	Z	23.29	4
21	MP3A	Mx	.02	4
22	MP3B	X	53.556	4
23	MP3B	Z	30.92	4
24	MP3B	Mx	0	4
25	MP3C	X	40.339	4
26	MP3C	Z	23.29	4
27	MP3C	Mx	-.02	4
28	MP4A	X	49.193	4
29	MP4A	Z	28.402	4
30	MP4A	Mx	.025	4
31	MP4B	X	64.612	4
32	MP4B	Z	37.304	4
33	MP4B	Mx	0	4
34	MP4C	X	49.193	4
35	MP4C	Z	28.402	4
36	MP4C	Mx	-.025	4
37	MP1A	X	40.627	2
38	MP1A	Z	23.456	2
39	MP1A	Mx	-.02	2
40	MP1A	X	40.627	6
41	MP1A	Z	23.456	6
42	MP1A	Mx	-.02	6
43	MP1B	X	50.791	2
44	MP1B	Z	29.324	2
45	MP1B	Mx	0	2
46	MP1B	X	50.791	6
47	MP1B	Z	29.324	6
48	MP1B	Mx	0	6
49	MP1C	X	40.627	2
50	MP1C	Z	23.456	2
51	MP1C	Mx	.02	2
52	MP1C	X	40.627	6
53	MP1C	Z	23.456	6
54	MP1C	Mx	.02	6
55	MP5A	X	40.627	2
56	MP5A	Z	23.456	2
57	MP5A	Mx	-.02	2
58	MP5A	X	40.627	6
59	MP5A	Z	23.456	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP5A	Mx	-.02	6
61	MP5B	X	50.791	2
62	MP5B	Z	29.324	2
63	MP5B	Mx	0	2
64	MP5B	X	50.791	6
65	MP5B	Z	29.324	6
66	MP5B	Mx	0	6
67	MP5C	X	40.627	2
68	MP5C	Z	23.456	2
69	MP5C	Mx	.02	2
70	MP5C	X	40.627	6
71	MP5C	Z	23.456	6
72	MP5C	Mx	.02	6
73	MP3A	X	66.566	2
74	MP3A	Z	38.432	2
75	MP3A	Mx	-.008	2
76	MP3A	X	66.566	6
77	MP3A	Z	38.432	6
78	MP3A	Mx	-.008	6
79	MP3B	X	82.047	2
80	MP3B	Z	47.37	2
81	MP3B	Mx	-.063	2
82	MP3B	X	82.047	6
83	MP3B	Z	47.37	6
84	MP3B	Mx	-.063	6
85	MP3C	X	66.566	2
86	MP3C	Z	38.432	2
87	MP3C	Mx	.059	2
88	MP3C	X	66.566	6
89	MP3C	Z	38.432	6
90	MP3C	Mx	.059	6
91	MP3A	X	66.566	2
92	MP3A	Z	38.432	2
93	MP3A	Mx	-.059	2
94	MP3A	X	66.566	6
95	MP3A	Z	38.432	6
96	MP3A	Mx	-.059	6
97	MP3B	X	82.047	2
98	MP3B	Z	47.37	2
99	MP3B	Mx	.063	2
100	MP3B	X	82.047	6
101	MP3B	Z	47.37	6
102	MP3B	Mx	.063	6
103	MP3C	X	66.566	2
104	MP3C	Z	38.432	2
105	MP3C	Mx	.008	2
106	MP3C	X	66.566	6
107	MP3C	Z	38.432	6
108	MP3C	Mx	.008	6
109	MP6A	X	98.68	2
110	MP6A	Z	56.973	2
111	MP6A	Mx	0	2
112	MP1A	X	28.842	0
113	MP1A	Z	16.652	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	31.992	3
2	MP4A	Z	55.412	3
3	MP4A	Mx	-.021	3
4	MP4A	X	31.992	5
5	MP4A	Z	55.412	5
6	MP4A	Mx	-.021	5
7	MP4B	X	31.992	3
8	MP4B	Z	55.412	3
9	MP4B	Mx	-.021	3
10	MP4B	X	31.992	5
11	MP4B	Z	55.412	5
12	MP4B	Mx	-.021	5
13	MP4C	X	14.56	3
14	MP4C	Z	25.218	3
15	MP4C	Mx	.019	3
16	MP4C	X	14.56	5
17	MP4C	Z	25.218	5
18	MP4C	Mx	.019	5
19	MP3A	X	28.377	4
20	MP3A	Z	49.15	4
21	MP3A	Mx	.014	4
22	MP3B	X	28.377	4
23	MP3B	Z	49.15	4
24	MP3B	Mx	.014	4
25	MP3C	X	20.747	4
26	MP3C	Z	35.934	4
27	MP3C	Mx	-.021	4
28	MP4A	X	34.337	4
29	MP4A	Z	59.473	4
30	MP4A	Mx	.017	4
31	MP4B	X	34.337	4
32	MP4B	Z	59.473	4
33	MP4B	Mx	.017	4
34	MP4C	X	25.434	4
35	MP4C	Z	44.054	4
36	MP4C	Mx	-.025	4
37	MP1A	X	27.368	2
38	MP1A	Z	47.403	2
39	MP1A	Mx	-.014	2
40	MP1A	X	27.368	6
41	MP1A	Z	47.403	6
42	MP1A	Mx	-.014	6
43	MP1B	X	27.368	2
44	MP1B	Z	47.403	2
45	MP1B	Mx	-.014	2
46	MP1B	X	27.368	6
47	MP1B	Z	47.403	6
48	MP1B	Mx	-.014	6
49	MP1C	X	21.5	2
50	MP1C	Z	37.239	2
51	MP1C	Mx	.021	2
52	MP1C	X	21.5	6
53	MP1C	Z	37.239	6
54	MP1C	Mx	.021	6
55	MP5A	X	27.368	2
56	MP5A	Z	47.403	2
57	MP5A	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	27.368	6
59	MP5A	Z	47.403	6
60	MP5A	Mx	-.014	6
61	MP5B	X	27.368	2
62	MP5B	Z	47.403	2
63	MP5B	Mx	-.014	2
64	MP5B	X	27.368	6
65	MP5B	Z	47.403	6
66	MP5B	Mx	-.014	6
67	MP5C	X	21.5	2
68	MP5C	Z	37.239	2
69	MP5C	Mx	.021	2
70	MP5C	X	21.5	6
71	MP5C	Z	37.239	6
72	MP5C	Mx	.021	6
73	MP3A	X	44.39	2
74	MP3A	Z	76.887	2
75	MP3A	Mx	.029	2
76	MP3A	X	44.39	6
77	MP3A	Z	76.887	6
78	MP3A	Mx	.029	6
79	MP3B	X	44.39	2
80	MP3B	Z	76.887	2
81	MP3B	Mx	-.073	2
82	MP3B	X	44.39	6
83	MP3B	Z	76.887	6
84	MP3B	Mx	-.073	6
85	MP3C	X	35.452	2
86	MP3C	Z	61.405	2
87	MP3C	Mx	.035	2
88	MP3C	X	35.452	6
89	MP3C	Z	61.405	6
90	MP3C	Mx	.035	6
91	MP3A	X	44.39	2
92	MP3A	Z	76.887	2
93	MP3A	Mx	-.073	2
94	MP3A	X	44.39	6
95	MP3A	Z	76.887	6
96	MP3A	Mx	-.073	6
97	MP3B	X	44.39	2
98	MP3B	Z	76.887	2
99	MP3B	Mx	.029	2
100	MP3B	X	44.39	6
101	MP3B	Z	76.887	6
102	MP3B	Mx	.029	6
103	MP3C	X	35.452	2
104	MP3C	Z	61.405	2
105	MP3C	Mx	.035	2
106	MP3C	X	35.452	6
107	MP3C	Z	61.405	6
108	MP3C	Mx	.035	6
109	MP6A	X	49.85	2
110	MP6A	Z	86.342	2
111	MP6A	Mx	0	2
112	MP1A	X	12.903	0
113	MP1A	Z	22.348	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	3
2	MP4A	Z	75.605	3
3	MP4A	Mx	0	3
4	MP4A	X	0	5
5	MP4A	Z	75.605	5
6	MP4A	Mx	0	5
7	MP4B	X	0	3
8	MP4B	Z	40.741	3
9	MP4B	Mx	-.024	3
10	MP4B	X	0	5
11	MP4B	Z	40.741	5
12	MP4B	Mx	-.024	5
13	MP4C	X	0	3
14	MP4C	Z	40.741	3
15	MP4C	Mx	.024	3
16	MP4C	X	0	5
17	MP4C	Z	40.741	5
18	MP4C	Mx	.024	5
19	MP3A	X	0	4
20	MP3A	Z	61.841	4
21	MP3A	Mx	0	4
22	MP3B	X	0	4
23	MP3B	Z	46.58	4
24	MP3B	Mx	.02	4
25	MP3C	X	0	4
26	MP3C	Z	46.58	4
27	MP3C	Mx	-.02	4
28	MP4A	X	0	4
29	MP4A	Z	74.608	4
30	MP4A	Mx	0	4
31	MP4B	X	0	4
32	MP4B	Z	56.804	4
33	MP4B	Mx	.025	4
34	MP4C	X	0	4
35	MP4C	Z	56.804	4
36	MP4C	Mx	-.025	4
37	MP1A	X	0	2
38	MP1A	Z	58.649	2
39	MP1A	Mx	0	2
40	MP1A	X	0	6
41	MP1A	Z	58.649	6
42	MP1A	Mx	0	6
43	MP1B	X	0	2
44	MP1B	Z	46.912	2
45	MP1B	Mx	-.02	2
46	MP1B	X	0	6
47	MP1B	Z	46.912	6
48	MP1B	Mx	-.02	6
49	MP1C	X	0	2
50	MP1C	Z	46.912	2
51	MP1C	Mx	.02	2
52	MP1C	X	0	6
53	MP1C	Z	46.912	6
54	MP1C	Mx	.02	6
55	MP5A	X	0	2
56	MP5A	Z	58.649	2
57	MP5A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	0	6
59	MP5A	Z	58.649	6
60	MP5A	Mx	0	6
61	MP5B	X	0	2
62	MP5B	Z	46.912	2
63	MP5B	Mx	-.02	2
64	MP5B	X	0	6
65	MP5B	Z	46.912	6
66	MP5B	Mx	-.02	6
67	MP5C	X	0	2
68	MP5C	Z	46.912	2
69	MP5C	Mx	.02	2
70	MP5C	X	0	6
71	MP5C	Z	46.912	6
72	MP5C	Mx	.02	6
73	MP3A	X	0	2
74	MP3A	Z	94.74	2
75	MP3A	Mx	.063	2
76	MP3A	X	0	6
77	MP3A	Z	94.74	6
78	MP3A	Mx	.063	6
79	MP3B	X	0	2
80	MP3B	Z	76.863	2
81	MP3B	Mx	-.059	2
82	MP3B	X	0	6
83	MP3B	Z	76.863	6
84	MP3B	Mx	-.059	6
85	MP3C	X	0	2
86	MP3C	Z	76.863	2
87	MP3C	Mx	.008	2
88	MP3C	X	0	6
89	MP3C	Z	76.863	6
90	MP3C	Mx	.008	6
91	MP3A	X	0	2
92	MP3A	Z	94.74	2
93	MP3A	Mx	-.063	2
94	MP3A	X	0	6
95	MP3A	Z	94.74	6
96	MP3A	Mx	-.063	6
97	MP3B	X	0	2
98	MP3B	Z	76.863	2
99	MP3B	Mx	-.008	2
100	MP3B	X	0	6
101	MP3B	Z	76.863	6
102	MP3B	Mx	-.008	6
103	MP3C	X	0	2
104	MP3C	Z	76.863	2
105	MP3C	Mx	.059	2
106	MP3C	X	0	6
107	MP3C	Z	76.863	6
108	MP3C	Mx	.059	6
109	MP6A	X	0	2
110	MP6A	Z	97.067	2
111	MP6A	Mx	0	2
112	MP1A	X	0	0
113	MP1A	Z	24.42	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-31.992	3
2	MP4A	Z	55.412	3
3	MP4A	Mx	.021	3
4	MP4A	X	-31.992	5
5	MP4A	Z	55.412	5
6	MP4A	Mx	.021	5
7	MP4B	X	-14.56	3
8	MP4B	Z	25.218	3
9	MP4B	Mx	-.019	3
10	MP4B	X	-14.56	5
11	MP4B	Z	25.218	5
12	MP4B	Mx	-.019	5
13	MP4C	X	-31.992	3
14	MP4C	Z	55.412	3
15	MP4C	Mx	.021	3
16	MP4C	X	-31.992	5
17	MP4C	Z	55.412	5
18	MP4C	Mx	.021	5
19	MP3A	X	-28.377	4
20	MP3A	Z	49.15	4
21	MP3A	Mx	-.014	4
22	MP3B	X	-20.747	4
23	MP3B	Z	35.934	4
24	MP3B	Mx	.021	4
25	MP3C	X	-28.377	4
26	MP3C	Z	49.15	4
27	MP3C	Mx	-.014	4
28	MP4A	X	-34.337	4
29	MP4A	Z	59.473	4
30	MP4A	Mx	-.017	4
31	MP4B	X	-25.434	4
32	MP4B	Z	44.054	4
33	MP4B	Mx	.025	4
34	MP4C	X	-34.337	4
35	MP4C	Z	59.473	4
36	MP4C	Mx	-.017	4
37	MP1A	X	-27.368	2
38	MP1A	Z	47.403	2
39	MP1A	Mx	.014	2
40	MP1A	X	-27.368	6
41	MP1A	Z	47.403	6
42	MP1A	Mx	.014	6
43	MP1B	X	-21.5	2
44	MP1B	Z	37.239	2
45	MP1B	Mx	-.021	2
46	MP1B	X	-21.5	6
47	MP1B	Z	37.239	6
48	MP1B	Mx	-.021	6
49	MP1C	X	-27.368	2
50	MP1C	Z	47.403	2
51	MP1C	Mx	.014	2
52	MP1C	X	-27.368	6
53	MP1C	Z	47.403	6
54	MP1C	Mx	.014	6
55	MP5A	X	-27.368	2
56	MP5A	Z	47.403	2
57	MP5A	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-27.368	6
59	MP5A	Z	47.403	6
60	MP5A	Mx	.014	6
61	MP5B	X	-21.5	2
62	MP5B	Z	37.239	2
63	MP5B	Mx	-.021	2
64	MP5B	X	-21.5	6
65	MP5B	Z	37.239	6
66	MP5B	Mx	-.021	6
67	MP5C	X	-27.368	2
68	MP5C	Z	47.403	2
69	MP5C	Mx	.014	2
70	MP5C	X	-27.368	6
71	MP5C	Z	47.403	6
72	MP5C	Mx	.014	6
73	MP3A	X	-44.39	2
74	MP3A	Z	76.887	2
75	MP3A	Mx	.073	2
76	MP3A	X	-44.39	6
77	MP3A	Z	76.887	6
78	MP3A	Mx	.073	6
79	MP3B	X	-35.452	2
80	MP3B	Z	61.405	2
81	MP3B	Mx	-.035	2
82	MP3B	X	-35.452	6
83	MP3B	Z	61.405	6
84	MP3B	Mx	-.035	6
85	MP3C	X	-44.39	2
86	MP3C	Z	76.887	2
87	MP3C	Mx	-.029	2
88	MP3C	X	-44.39	6
89	MP3C	Z	76.887	6
90	MP3C	Mx	-.029	6
91	MP3A	X	-44.39	2
92	MP3A	Z	76.887	2
93	MP3A	Mx	-.029	2
94	MP3A	X	-44.39	6
95	MP3A	Z	76.887	6
96	MP3A	Mx	-.029	6
97	MP3B	X	-35.452	2
98	MP3B	Z	61.405	2
99	MP3B	Mx	-.035	2
100	MP3B	X	-35.452	6
101	MP3B	Z	61.405	6
102	MP3B	Mx	-.035	6
103	MP3C	X	-44.39	2
104	MP3C	Z	76.887	2
105	MP3C	Mx	.073	2
106	MP3C	X	-44.39	6
107	MP3C	Z	76.887	6
108	MP3C	Mx	.073	6
109	MP6A	X	-54.34	2
110	MP6A	Z	94.12	2
111	MP6A	Mx	0	2
112	MP1A	X	-15.266	0
113	MP1A	Z	26.442	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-35.283	3
2	MP4A	Z	20.37	3
3	MP4A	Mx	.024	3
4	MP4A	X	-35.283	5
5	MP4A	Z	20.37	5
6	MP4A	Mx	.024	5
7	MP4B	X	-35.283	3
8	MP4B	Z	20.37	3
9	MP4B	Mx	-.024	3
10	MP4B	X	-35.283	5
11	MP4B	Z	20.37	5
12	MP4B	Mx	-.024	5
13	MP4C	X	-65.476	3
14	MP4C	Z	37.803	3
15	MP4C	Mx	0	3
16	MP4C	X	-65.476	5
17	MP4C	Z	37.803	5
18	MP4C	Mx	0	5
19	MP3A	X	-40.339	4
20	MP3A	Z	23.29	4
21	MP3A	Mx	-.02	4
22	MP3B	X	-40.339	4
23	MP3B	Z	23.29	4
24	MP3B	Mx	.02	4
25	MP3C	X	-53.556	4
26	MP3C	Z	30.92	4
27	MP3C	Mx	0	4
28	MP4A	X	-49.193	4
29	MP4A	Z	28.402	4
30	MP4A	Mx	-.025	4
31	MP4B	X	-49.193	4
32	MP4B	Z	28.402	4
33	MP4B	Mx	.025	4
34	MP4C	X	-64.612	4
35	MP4C	Z	37.304	4
36	MP4C	Mx	0	4
37	MP1A	X	-40.627	2
38	MP1A	Z	23.456	2
39	MP1A	Mx	.02	2
40	MP1A	X	-40.627	6
41	MP1A	Z	23.456	6
42	MP1A	Mx	.02	6
43	MP1B	X	-40.627	2
44	MP1B	Z	23.456	2
45	MP1B	Mx	-.02	2
46	MP1B	X	-40.627	6
47	MP1B	Z	23.456	6
48	MP1B	Mx	-.02	6
49	MP1C	X	-50.791	2
50	MP1C	Z	29.324	2
51	MP1C	Mx	0	2
52	MP1C	X	-50.791	6
53	MP1C	Z	29.324	6
54	MP1C	Mx	0	6
55	MP5A	X	-40.627	2
56	MP5A	Z	23.456	2
57	MP5A	Mx	.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-40.627	6
59	MP5A	Z	23.456	6
60	MP5A	Mx	.02	6
61	MP5B	X	-40.627	2
62	MP5B	Z	23.456	2
63	MP5B	Mx	-.02	2
64	MP5B	X	-40.627	6
65	MP5B	Z	23.456	6
66	MP5B	Mx	-.02	6
67	MP5C	X	-50.791	2
68	MP5C	Z	29.324	2
69	MP5C	Mx	0	2
70	MP5C	X	-50.791	6
71	MP5C	Z	29.324	6
72	MP5C	Mx	0	6
73	MP3A	X	-66.566	2
74	MP3A	Z	38.432	2
75	MP3A	Mx	.059	2
76	MP3A	X	-66.566	6
77	MP3A	Z	38.432	6
78	MP3A	Mx	.059	6
79	MP3B	X	-66.566	2
80	MP3B	Z	38.432	2
81	MP3B	Mx	-.008	2
82	MP3B	X	-66.566	6
83	MP3B	Z	38.432	6
84	MP3B	Mx	-.008	6
85	MP3C	X	-82.047	2
86	MP3C	Z	47.37	2
87	MP3C	Mx	-.063	2
88	MP3C	X	-82.047	6
89	MP3C	Z	47.37	6
90	MP3C	Mx	-.063	6
91	MP3A	X	-66.566	2
92	MP3A	Z	38.432	2
93	MP3A	Mx	.008	2
94	MP3A	X	-66.566	6
95	MP3A	Z	38.432	6
96	MP3A	Mx	.008	6
97	MP3B	X	-66.566	2
98	MP3B	Z	38.432	2
99	MP3B	Mx	-.059	2
100	MP3B	X	-66.566	6
101	MP3B	Z	38.432	6
102	MP3B	Mx	-.059	6
103	MP3C	X	-82.047	2
104	MP3C	Z	47.37	2
105	MP3C	Mx	.063	2
106	MP3C	X	-82.047	6
107	MP3C	Z	47.37	6
108	MP3C	Mx	.063	6
109	MP6A	X	-106.458	2
110	MP6A	Z	61.464	2
111	MP6A	Mx	0	2
112	MP1A	X	-32.935	0
113	MP1A	Z	19.015	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-29.119	3
2	MP4A	Z	0	3
3	MP4A	Mx	.019	3
4	MP4A	X	-29.119	5
5	MP4A	Z	0	5
6	MP4A	Mx	.019	5
7	MP4B	X	-63.984	3
8	MP4B	Z	0	3
9	MP4B	Mx	-.021	3
10	MP4B	X	-63.984	5
11	MP4B	Z	0	5
12	MP4B	Mx	-.021	5
13	MP4C	X	-63.984	3
14	MP4C	Z	0	3
15	MP4C	Mx	-.021	3
16	MP4C	X	-63.984	5
17	MP4C	Z	0	5
18	MP4C	Mx	-.021	5
19	MP3A	X	-41.493	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.021	4
22	MP3B	X	-56.754	4
23	MP3B	Z	0	4
24	MP3B	Mx	.014	4
25	MP3C	X	-56.754	4
26	MP3C	Z	0	4
27	MP3C	Mx	.014	4
28	MP4A	X	-50.869	4
29	MP4A	Z	0	4
30	MP4A	Mx	-.025	4
31	MP4B	X	-68.673	4
32	MP4B	Z	0	4
33	MP4B	Mx	.017	4
34	MP4C	X	-68.673	4
35	MP4C	Z	0	4
36	MP4C	Mx	.017	4
37	MP1A	X	-43	2
38	MP1A	Z	0	2
39	MP1A	Mx	.021	2
40	MP1A	X	-43	6
41	MP1A	Z	0	6
42	MP1A	Mx	.021	6
43	MP1B	X	-54.737	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.014	2
46	MP1B	X	-54.737	6
47	MP1B	Z	0	6
48	MP1B	Mx	-.014	6
49	MP1C	X	-54.737	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.014	2
52	MP1C	X	-54.737	6
53	MP1C	Z	0	6
54	MP1C	Mx	-.014	6
55	MP5A	X	-43	2
56	MP5A	Z	0	2
57	MP5A	Mx	.021	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-43	6
59	MP5A	Z	0	6
60	MP5A	Mx	.021	6
61	MP5B	X	-54.737	2
62	MP5B	Z	0	2
63	MP5B	Mx	-.014	2
64	MP5B	X	-54.737	6
65	MP5B	Z	0	6
66	MP5B	Mx	-.014	6
67	MP5C	X	-54.737	2
68	MP5C	Z	0	2
69	MP5C	Mx	-.014	2
70	MP5C	X	-54.737	6
71	MP5C	Z	0	6
72	MP5C	Mx	-.014	6
73	MP3A	X	-70.905	2
74	MP3A	Z	0	2
75	MP3A	Mx	.035	2
76	MP3A	X	-70.905	6
77	MP3A	Z	0	6
78	MP3A	Mx	.035	6
79	MP3B	X	-88.781	2
80	MP3B	Z	0	2
81	MP3B	Mx	.029	2
82	MP3B	X	-88.781	6
83	MP3B	Z	0	6
84	MP3B	Mx	.029	6
85	MP3C	X	-88.781	2
86	MP3C	Z	0	2
87	MP3C	Mx	-.073	2
88	MP3C	X	-88.781	6
89	MP3C	Z	0	6
90	MP3C	Mx	-.073	6
91	MP3A	X	-70.905	2
92	MP3A	Z	0	2
93	MP3A	Mx	.035	2
94	MP3A	X	-70.905	6
95	MP3A	Z	0	6
96	MP3A	Mx	.035	6
97	MP3B	X	-88.781	2
98	MP3B	Z	0	2
99	MP3B	Mx	-.073	2
100	MP3B	X	-88.781	6
101	MP3B	Z	0	6
102	MP3B	Mx	-.073	6
103	MP3C	X	-88.781	2
104	MP3C	Z	0	2
105	MP3C	Mx	.029	2
106	MP3C	X	-88.781	6
107	MP3C	Z	0	6
108	MP3C	Mx	.029	6
109	MP6A	X	-125.56	2
110	MP6A	Z	0	2
111	MP6A	Mx	0	2
112	MP1A	X	-39.416	0
113	MP1A	Z	0	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-35.283	3
2	MP4A	Z	-20.37	3
3	MP4A	Mx	.024	3
4	MP4A	X	-35.283	5
5	MP4A	Z	-20.37	5
6	MP4A	Mx	.024	5
7	MP4B	X	-65.476	3
8	MP4B	Z	-37.803	3
9	MP4B	Mx	0	3
10	MP4B	X	-65.476	5
11	MP4B	Z	-37.803	5
12	MP4B	Mx	0	5
13	MP4C	X	-35.283	3
14	MP4C	Z	-20.37	3
15	MP4C	Mx	-.024	3
16	MP4C	X	-35.283	5
17	MP4C	Z	-20.37	5
18	MP4C	Mx	-.024	5
19	MP3A	X	-40.339	4
20	MP3A	Z	-23.29	4
21	MP3A	Mx	-.02	4
22	MP3B	X	-53.556	4
23	MP3B	Z	-30.92	4
24	MP3B	Mx	0	4
25	MP3C	X	-40.339	4
26	MP3C	Z	-23.29	4
27	MP3C	Mx	.02	4
28	MP4A	X	-49.193	4
29	MP4A	Z	-28.402	4
30	MP4A	Mx	-.025	4
31	MP4B	X	-64.612	4
32	MP4B	Z	-37.304	4
33	MP4B	Mx	0	4
34	MP4C	X	-49.193	4
35	MP4C	Z	-28.402	4
36	MP4C	Mx	.025	4
37	MP1A	X	-40.627	2
38	MP1A	Z	-23.456	2
39	MP1A	Mx	.02	2
40	MP1A	X	-40.627	6
41	MP1A	Z	-23.456	6
42	MP1A	Mx	.02	6
43	MP1B	X	-50.791	2
44	MP1B	Z	-29.324	2
45	MP1B	Mx	0	2
46	MP1B	X	-50.791	6
47	MP1B	Z	-29.324	6
48	MP1B	Mx	0	6
49	MP1C	X	-40.627	2
50	MP1C	Z	-23.456	2
51	MP1C	Mx	-.02	2
52	MP1C	X	-40.627	6
53	MP1C	Z	-23.456	6
54	MP1C	Mx	-.02	6
55	MP5A	X	-40.627	2
56	MP5A	Z	-23.456	2
57	MP5A	Mx	.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-40.627	6
59	MP5A	Z	-23.456	6
60	MP5A	Mx	.02	6
61	MP5B	X	-50.791	2
62	MP5B	Z	-29.324	2
63	MP5B	Mx	0	2
64	MP5B	X	-50.791	6
65	MP5B	Z	-29.324	6
66	MP5B	Mx	0	6
67	MP5C	X	-40.627	2
68	MP5C	Z	-23.456	2
69	MP5C	Mx	-.02	2
70	MP5C	X	-40.627	6
71	MP5C	Z	-23.456	6
72	MP5C	Mx	-.02	6
73	MP3A	X	-66.566	2
74	MP3A	Z	-38.432	2
75	MP3A	Mx	.008	2
76	MP3A	X	-66.566	6
77	MP3A	Z	-38.432	6
78	MP3A	Mx	.008	6
79	MP3B	X	-82.047	2
80	MP3B	Z	-47.37	2
81	MP3B	Mx	.063	2
82	MP3B	X	-82.047	6
83	MP3B	Z	-47.37	6
84	MP3B	Mx	.063	6
85	MP3C	X	-66.566	2
86	MP3C	Z	-38.432	2
87	MP3C	Mx	-.059	2
88	MP3C	X	-66.566	6
89	MP3C	Z	-38.432	6
90	MP3C	Mx	-.059	6
91	MP3A	X	-66.566	2
92	MP3A	Z	-38.432	2
93	MP3A	Mx	.059	2
94	MP3A	X	-66.566	6
95	MP3A	Z	-38.432	6
96	MP3A	Mx	.059	6
97	MP3B	X	-82.047	2
98	MP3B	Z	-47.37	2
99	MP3B	Mx	-.063	2
100	MP3B	X	-82.047	6
101	MP3B	Z	-47.37	6
102	MP3B	Mx	-.063	6
103	MP3C	X	-66.566	2
104	MP3C	Z	-38.432	2
105	MP3C	Mx	-.008	2
106	MP3C	X	-66.566	6
107	MP3C	Z	-38.432	6
108	MP3C	Mx	-.008	6
109	MP6A	X	-98.68	2
110	MP6A	Z	-56.973	2
111	MP6A	Mx	0	2
112	MP1A	X	-28.842	0
113	MP1A	Z	-16.652	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-31.992	3
2	MP4A	Z	-55.412	3
3	MP4A	Mx	.021	3
4	MP4A	X	-31.992	5
5	MP4A	Z	-55.412	5
6	MP4A	Mx	.021	5
7	MP4B	X	-31.992	3
8	MP4B	Z	-55.412	3
9	MP4B	Mx	.021	3
10	MP4B	X	-31.992	5
11	MP4B	Z	-55.412	5
12	MP4B	Mx	.021	5
13	MP4C	X	-14.56	3
14	MP4C	Z	-25.218	3
15	MP4C	Mx	-.019	3
16	MP4C	X	-14.56	5
17	MP4C	Z	-25.218	5
18	MP4C	Mx	-.019	5
19	MP3A	X	-28.377	4
20	MP3A	Z	-49.15	4
21	MP3A	Mx	-.014	4
22	MP3B	X	-28.377	4
23	MP3B	Z	-49.15	4
24	MP3B	Mx	-.014	4
25	MP3C	X	-20.747	4
26	MP3C	Z	-35.934	4
27	MP3C	Mx	.021	4
28	MP4A	X	-34.337	4
29	MP4A	Z	-59.473	4
30	MP4A	Mx	-.017	4
31	MP4B	X	-34.337	4
32	MP4B	Z	-59.473	4
33	MP4B	Mx	-.017	4
34	MP4C	X	-25.434	4
35	MP4C	Z	-44.054	4
36	MP4C	Mx	.025	4
37	MP1A	X	-27.368	2
38	MP1A	Z	-47.403	2
39	MP1A	Mx	.014	2
40	MP1A	X	-27.368	6
41	MP1A	Z	-47.403	6
42	MP1A	Mx	.014	6
43	MP1B	X	-27.368	2
44	MP1B	Z	-47.403	2
45	MP1B	Mx	.014	2
46	MP1B	X	-27.368	6
47	MP1B	Z	-47.403	6
48	MP1B	Mx	.014	6
49	MP1C	X	-21.5	2
50	MP1C	Z	-37.239	2
51	MP1C	Mx	-.021	2
52	MP1C	X	-21.5	6
53	MP1C	Z	-37.239	6
54	MP1C	Mx	-.021	6
55	MP5A	X	-27.368	2
56	MP5A	Z	-47.403	2
57	MP5A	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-27.368	6
59	MP5A	Z	-47.403	6
60	MP5A	Mx	.014	6
61	MP5B	X	-27.368	2
62	MP5B	Z	-47.403	2
63	MP5B	Mx	.014	2
64	MP5B	X	-27.368	6
65	MP5B	Z	-47.403	6
66	MP5B	Mx	.014	6
67	MP5C	X	-21.5	2
68	MP5C	Z	-37.239	2
69	MP5C	Mx	-.021	2
70	MP5C	X	-21.5	6
71	MP5C	Z	-37.239	6
72	MP5C	Mx	-.021	6
73	MP3A	X	-44.39	2
74	MP3A	Z	-76.887	2
75	MP3A	Mx	-.029	2
76	MP3A	X	-44.39	6
77	MP3A	Z	-76.887	6
78	MP3A	Mx	-.029	6
79	MP3B	X	-44.39	2
80	MP3B	Z	-76.887	2
81	MP3B	Mx	.073	2
82	MP3B	X	-44.39	6
83	MP3B	Z	-76.887	6
84	MP3B	Mx	.073	6
85	MP3C	X	-35.452	2
86	MP3C	Z	-61.405	2
87	MP3C	Mx	-.035	2
88	MP3C	X	-35.452	6
89	MP3C	Z	-61.405	6
90	MP3C	Mx	-.035	6
91	MP3A	X	-44.39	2
92	MP3A	Z	-76.887	2
93	MP3A	Mx	.073	2
94	MP3A	X	-44.39	6
95	MP3A	Z	-76.887	6
96	MP3A	Mx	.073	6
97	MP3B	X	-44.39	2
98	MP3B	Z	-76.887	2
99	MP3B	Mx	-.029	2
100	MP3B	X	-44.39	6
101	MP3B	Z	-76.887	6
102	MP3B	Mx	-.029	6
103	MP3C	X	-35.452	2
104	MP3C	Z	-61.405	2
105	MP3C	Mx	-.035	2
106	MP3C	X	-35.452	6
107	MP3C	Z	-61.405	6
108	MP3C	Mx	-.035	6
109	MP6A	X	-49.85	2
110	MP6A	Z	-86.342	2
111	MP6A	Mx	0	2
112	MP1A	X	-12.903	0
113	MP1A	Z	-22.348	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	3
2	MP4A	Z	-14.95	3
3	MP4A	Mx	0	3
4	MP4A	X	0	5
5	MP4A	Z	-14.95	5
6	MP4A	Mx	0	5
7	MP4B	X	0	3
8	MP4B	Z	-8.459	3
9	MP4B	Mx	.005	3
10	MP4B	X	0	5
11	MP4B	Z	-8.459	5
12	MP4B	Mx	.005	5
13	MP4C	X	0	3
14	MP4C	Z	-8.459	3
15	MP4C	Mx	-.005	3
16	MP4C	X	0	5
17	MP4C	Z	-8.459	5
18	MP4C	Mx	-.005	5
19	MP3A	X	0	4
20	MP3A	Z	-15.42	4
21	MP3A	Mx	0	4
22	MP3B	X	0	4
23	MP3B	Z	-11.89	4
24	MP3B	Mx	-.005	4
25	MP3C	X	0	4
26	MP3C	Z	-11.89	4
27	MP3C	Mx	.005	4
28	MP4A	X	0	4
29	MP4A	Z	-15.42	4
30	MP4A	Mx	0	4
31	MP4B	X	0	4
32	MP4B	Z	-12.032	4
33	MP4B	Mx	-.005	4
34	MP4C	X	0	4
35	MP4C	Z	-12.032	4
36	MP4C	Mx	.005	4
37	MP1A	X	0	2
38	MP1A	Z	-12.06	2
39	MP1A	Mx	0	2
40	MP1A	X	0	6
41	MP1A	Z	-12.06	6
42	MP1A	Mx	0	6
43	MP1B	X	0	2
44	MP1B	Z	-9.979	2
45	MP1B	Mx	.004	2
46	MP1B	X	0	6
47	MP1B	Z	-9.979	6
48	MP1B	Mx	.004	6
49	MP1C	X	0	2
50	MP1C	Z	-9.979	2
51	MP1C	Mx	-.004	2
52	MP1C	X	0	6
53	MP1C	Z	-9.979	6
54	MP1C	Mx	-.004	6
55	MP5A	X	0	2
56	MP5A	Z	-12.06	2
57	MP5A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	0	6
59	MP5A	Z	-12.06	6
60	MP5A	Mx	0	6
61	MP5B	X	0	2
62	MP5B	Z	-9.979	2
63	MP5B	Mx	.004	2
64	MP5B	X	0	6
65	MP5B	Z	-9.979	6
66	MP5B	Mx	.004	6
67	MP5C	X	0	2
68	MP5C	Z	-9.979	2
69	MP5C	Mx	-.004	2
70	MP5C	X	0	6
71	MP5C	Z	-9.979	6
72	MP5C	Mx	-.004	6
73	MP3A	X	0	2
74	MP3A	Z	-37.339	2
75	MP3A	Mx	-.025	2
76	MP3A	X	0	6
77	MP3A	Z	-37.339	6
78	MP3A	Mx	-.025	6
79	MP3B	X	0	2
80	MP3B	Z	-30.509	2
81	MP3B	Mx	.023	2
82	MP3B	X	0	6
83	MP3B	Z	-30.509	6
84	MP3B	Mx	.023	6
85	MP3C	X	0	2
86	MP3C	Z	-30.509	2
87	MP3C	Mx	-.003	2
88	MP3C	X	0	6
89	MP3C	Z	-30.509	6
90	MP3C	Mx	-.003	6
91	MP3A	X	0	2
92	MP3A	Z	-37.339	2
93	MP3A	Mx	.025	2
94	MP3A	X	0	6
95	MP3A	Z	-37.339	6
96	MP3A	Mx	.025	6
97	MP3B	X	0	2
98	MP3B	Z	-30.509	2
99	MP3B	Mx	.003	2
100	MP3B	X	0	6
101	MP3B	Z	-30.509	6
102	MP3B	Mx	.003	6
103	MP3C	X	0	2
104	MP3C	Z	-30.509	2
105	MP3C	Mx	-.023	2
106	MP3C	X	0	6
107	MP3C	Z	-30.509	6
108	MP3C	Mx	-.023	6
109	MP6A	X	0	2
110	MP6A	Z	-20.593	2
111	MP6A	Mx	0	2
112	MP1A	X	0	0
113	MP1A	Z	-5.753	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	6.393	3
2	MP4A	Z	-11.073	3
3	MP4A	Mx	-.004	3
4	MP4A	X	6.393	5
5	MP4A	Z	-11.073	5
6	MP4A	Mx	-.004	5
7	MP4B	X	3.148	3
8	MP4B	Z	-5.452	3
9	MP4B	Mx	.004	3
10	MP4B	X	3.148	5
11	MP4B	Z	-5.452	5
12	MP4B	Mx	.004	5
13	MP4C	X	6.393	3
14	MP4C	Z	-11.073	3
15	MP4C	Mx	-.004	3
16	MP4C	X	6.393	5
17	MP4C	Z	-11.073	5
18	MP4C	Mx	-.004	5
19	MP3A	X	7.122	4
20	MP3A	Z	-12.335	4
21	MP3A	Mx	.004	4
22	MP3B	X	5.357	4
23	MP3B	Z	-9.278	4
24	MP3B	Mx	-.005	4
25	MP3C	X	7.122	4
26	MP3C	Z	-12.335	4
27	MP3C	Mx	.004	4
28	MP4A	X	7.145	4
29	MP4A	Z	-12.376	4
30	MP4A	Mx	.004	4
31	MP4B	X	5.451	4
32	MP4B	Z	-9.442	4
33	MP4B	Mx	-.005	4
34	MP4C	X	7.145	4
35	MP4C	Z	-12.376	4
36	MP4C	Mx	.004	4
37	MP1A	X	5.683	2
38	MP1A	Z	-9.844	2
39	MP1A	Mx	-.003	2
40	MP1A	X	5.683	6
41	MP1A	Z	-9.844	6
42	MP1A	Mx	-.003	6
43	MP1B	X	4.643	2
44	MP1B	Z	-8.042	2
45	MP1B	Mx	.005	2
46	MP1B	X	4.643	6
47	MP1B	Z	-8.042	6
48	MP1B	Mx	.005	6
49	MP1C	X	5.683	2
50	MP1C	Z	-9.844	2
51	MP1C	Mx	-.003	2
52	MP1C	X	5.683	6
53	MP1C	Z	-9.844	6
54	MP1C	Mx	-.003	6
55	MP5A	X	5.683	2
56	MP5A	Z	-9.844	2
57	MP5A	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	5.683	6
59	MP5A	Z	-9.844	6
60	MP5A	Mx	-.003	6
61	MP5B	X	4.643	2
62	MP5B	Z	-8.042	2
63	MP5B	Mx	.005	2
64	MP5B	X	4.643	6
65	MP5B	Z	-8.042	6
66	MP5B	Mx	.005	6
67	MP5C	X	5.683	2
68	MP5C	Z	-9.844	2
69	MP5C	Mx	-.003	2
70	MP5C	X	5.683	6
71	MP5C	Z	-9.844	6
72	MP5C	Mx	-.003	6
73	MP3A	X	17.531	2
74	MP3A	Z	-30.365	2
75	MP3A	Mx	-.029	2
76	MP3A	X	17.531	6
77	MP3A	Z	-30.365	6
78	MP3A	Mx	-.029	6
79	MP3B	X	14.116	2
80	MP3B	Z	-24.45	2
81	MP3B	Mx	.014	2
82	MP3B	X	14.116	6
83	MP3B	Z	-24.45	6
84	MP3B	Mx	.014	6
85	MP3C	X	17.531	2
86	MP3C	Z	-30.365	2
87	MP3C	Mx	.011	2
88	MP3C	X	17.531	6
89	MP3C	Z	-30.365	6
90	MP3C	Mx	.011	6
91	MP3A	X	17.531	2
92	MP3A	Z	-30.365	2
93	MP3A	Mx	.011	2
94	MP3A	X	17.531	6
95	MP3A	Z	-30.365	6
96	MP3A	Mx	.011	6
97	MP3B	X	14.116	2
98	MP3B	Z	-24.45	2
99	MP3B	Mx	.014	2
100	MP3B	X	14.116	6
101	MP3B	Z	-24.45	6
102	MP3B	Mx	.014	6
103	MP3C	X	17.531	2
104	MP3C	Z	-30.365	2
105	MP3C	Mx	-.029	2
106	MP3C	X	17.531	6
107	MP3C	Z	-30.365	6
108	MP3C	Mx	-.029	6
109	MP6A	X	12.1	2
110	MP6A	Z	-20.957	2
111	MP6A	Mx	0	2
112	MP1A	X	3.318	0
113	MP1A	Z	-5.746	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	7.326	3
2	MP4A	Z	-4.229	3
3	MP4A	Mx	-.005	3
4	MP4A	X	7.326	5
5	MP4A	Z	-4.229	5
6	MP4A	Mx	-.005	5
7	MP4B	X	7.326	3
8	MP4B	Z	-4.229	3
9	MP4B	Mx	.005	3
10	MP4B	X	7.326	5
11	MP4B	Z	-4.229	5
12	MP4B	Mx	.005	5
13	MP4C	X	12.947	3
14	MP4C	Z	-7.475	3
15	MP4C	Mx	0	3
16	MP4C	X	12.947	5
17	MP4C	Z	-7.475	5
18	MP4C	Mx	0	5
19	MP3A	X	10.297	4
20	MP3A	Z	-5.945	4
21	MP3A	Mx	.005	4
22	MP3B	X	10.297	4
23	MP3B	Z	-5.945	4
24	MP3B	Mx	-.005	4
25	MP3C	X	13.354	4
26	MP3C	Z	-7.71	4
27	MP3C	Mx	0	4
28	MP4A	X	10.42	4
29	MP4A	Z	-6.016	4
30	MP4A	Mx	.005	4
31	MP4B	X	10.42	4
32	MP4B	Z	-6.016	4
33	MP4B	Mx	-.005	4
34	MP4C	X	13.354	4
35	MP4C	Z	-7.71	4
36	MP4C	Mx	0	4
37	MP1A	X	8.642	2
38	MP1A	Z	-4.99	2
39	MP1A	Mx	-.004	2
40	MP1A	X	8.642	6
41	MP1A	Z	-4.99	6
42	MP1A	Mx	-.004	6
43	MP1B	X	8.642	2
44	MP1B	Z	-4.99	2
45	MP1B	Mx	.004	2
46	MP1B	X	8.642	6
47	MP1B	Z	-4.99	6
48	MP1B	Mx	.004	6
49	MP1C	X	10.444	2
50	MP1C	Z	-6.03	2
51	MP1C	Mx	0	2
52	MP1C	X	10.444	6
53	MP1C	Z	-6.03	6
54	MP1C	Mx	0	6
55	MP5A	X	8.642	2
56	MP5A	Z	-4.99	2
57	MP5A	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	8.642	6
59	MP5A	Z	-4.99	6
60	MP5A	Mx	-.004	6
61	MP5B	X	8.642	2
62	MP5B	Z	-4.99	2
63	MP5B	Mx	.004	2
64	MP5B	X	8.642	6
65	MP5B	Z	-4.99	6
66	MP5B	Mx	.004	6
67	MP5C	X	10.444	2
68	MP5C	Z	-6.03	2
69	MP5C	Mx	0	2
70	MP5C	X	10.444	6
71	MP5C	Z	-6.03	6
72	MP5C	Mx	0	6
73	MP3A	X	26.422	2
74	MP3A	Z	-15.255	2
75	MP3A	Mx	-.023	2
76	MP3A	X	26.422	6
77	MP3A	Z	-15.255	6
78	MP3A	Mx	-.023	6
79	MP3B	X	26.422	2
80	MP3B	Z	-15.255	2
81	MP3B	Mx	.003	2
82	MP3B	X	26.422	6
83	MP3B	Z	-15.255	6
84	MP3B	Mx	.003	6
85	MP3C	X	32.336	2
86	MP3C	Z	-18.669	2
87	MP3C	Mx	.025	2
88	MP3C	X	32.336	6
89	MP3C	Z	-18.669	6
90	MP3C	Mx	.025	6
91	MP3A	X	26.422	2
92	MP3A	Z	-15.255	2
93	MP3A	Mx	-.003	2
94	MP3A	X	26.422	6
95	MP3A	Z	-15.255	6
96	MP3A	Mx	-.003	6
97	MP3B	X	26.422	2
98	MP3B	Z	-15.255	2
99	MP3B	Mx	.023	2
100	MP3B	X	26.422	6
101	MP3B	Z	-15.255	6
102	MP3B	Mx	.023	6
103	MP3C	X	32.336	2
104	MP3C	Z	-18.669	2
105	MP3C	Mx	-.025	2
106	MP3C	X	32.336	6
107	MP3C	Z	-18.669	6
108	MP3C	Mx	-.025	6
109	MP6A	X	24.788	2
110	MP6A	Z	-14.312	2
111	MP6A	Mx	0	2
112	MP1A	X	6.684	0
113	MP1A	Z	-3.859	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	6.295	3
2	MP4A	Z	0	3
3	MP4A	Mx	-.004	3
4	MP4A	X	6.295	5
5	MP4A	Z	0	5
6	MP4A	Mx	-.004	5
7	MP4B	X	12.786	3
8	MP4B	Z	0	3
9	MP4B	Mx	.004	3
10	MP4B	X	12.786	5
11	MP4B	Z	0	5
12	MP4B	Mx	.004	5
13	MP4C	X	12.786	3
14	MP4C	Z	0	3
15	MP4C	Mx	.004	3
16	MP4C	X	12.786	5
17	MP4C	Z	0	5
18	MP4C	Mx	.004	5
19	MP3A	X	10.714	4
20	MP3A	Z	0	4
21	MP3A	Mx	.005	4
22	MP3B	X	14.244	4
23	MP3B	Z	0	4
24	MP3B	Mx	-.004	4
25	MP3C	X	14.244	4
26	MP3C	Z	0	4
27	MP3C	Mx	-.004	4
28	MP4A	X	10.902	4
29	MP4A	Z	0	4
30	MP4A	Mx	.005	4
31	MP4B	X	14.291	4
32	MP4B	Z	0	4
33	MP4B	Mx	-.004	4
34	MP4C	X	14.291	4
35	MP4C	Z	0	4
36	MP4C	Mx	-.004	4
37	MP1A	X	9.286	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.005	2
40	MP1A	X	9.286	6
41	MP1A	Z	0	6
42	MP1A	Mx	-.005	6
43	MP1B	X	11.367	2
44	MP1B	Z	0	2
45	MP1B	Mx	.003	2
46	MP1B	X	11.367	6
47	MP1B	Z	0	6
48	MP1B	Mx	.003	6
49	MP1C	X	11.367	2
50	MP1C	Z	0	2
51	MP1C	Mx	.003	2
52	MP1C	X	11.367	6
53	MP1C	Z	0	6
54	MP1C	Mx	.003	6
55	MP5A	X	9.286	2
56	MP5A	Z	0	2
57	MP5A	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	9.286	6
59	MP5A	Z	0	6
60	MP5A	Mx	-.005	6
61	MP5B	X	11.367	2
62	MP5B	Z	0	2
63	MP5B	Mx	.003	2
64	MP5B	X	11.367	6
65	MP5B	Z	0	6
66	MP5B	Mx	.003	6
67	MP5C	X	11.367	2
68	MP5C	Z	0	2
69	MP5C	Mx	.003	2
70	MP5C	X	11.367	6
71	MP5C	Z	0	6
72	MP5C	Mx	.003	6
73	MP3A	X	28.233	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.014	2
76	MP3A	X	28.233	6
77	MP3A	Z	0	6
78	MP3A	Mx	-.014	6
79	MP3B	X	35.062	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.011	2
82	MP3B	X	35.062	6
83	MP3B	Z	0	6
84	MP3B	Mx	-.011	6
85	MP3C	X	35.062	2
86	MP3C	Z	0	2
87	MP3C	Mx	.029	2
88	MP3C	X	35.062	6
89	MP3C	Z	0	6
90	MP3C	Mx	.029	6
91	MP3A	X	28.233	2
92	MP3A	Z	0	2
93	MP3A	Mx	-.014	2
94	MP3A	X	28.233	6
95	MP3A	Z	0	6
96	MP3A	Mx	-.014	6
97	MP3B	X	35.062	2
98	MP3B	Z	0	2
99	MP3B	Mx	.029	2
100	MP3B	X	35.062	6
101	MP3B	Z	0	6
102	MP3B	Mx	.029	6
103	MP3C	X	35.062	2
104	MP3C	Z	0	2
105	MP3C	Mx	-.011	2
106	MP3C	X	35.062	6
107	MP3C	Z	0	6
108	MP3C	Mx	-.011	6
109	MP6A	X	29.441	2
110	MP6A	Z	0	2
111	MP6A	Mx	0	2
112	MP1A	X	7.918	0
113	MP1A	Z	0	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	7.326	3
2	MP4A	Z	4.229	3
3	MP4A	Mx	-.005	3
4	MP4A	X	7.326	5
5	MP4A	Z	4.229	5
6	MP4A	Mx	-.005	5
7	MP4B	X	12.947	3
8	MP4B	Z	7.475	3
9	MP4B	Mx	0	3
10	MP4B	X	12.947	5
11	MP4B	Z	7.475	5
12	MP4B	Mx	0	5
13	MP4C	X	7.326	3
14	MP4C	Z	4.229	3
15	MP4C	Mx	.005	3
16	MP4C	X	7.326	5
17	MP4C	Z	4.229	5
18	MP4C	Mx	.005	5
19	MP3A	X	10.297	4
20	MP3A	Z	5.945	4
21	MP3A	Mx	.005	4
22	MP3B	X	13.354	4
23	MP3B	Z	7.71	4
24	MP3B	Mx	0	4
25	MP3C	X	10.297	4
26	MP3C	Z	5.945	4
27	MP3C	Mx	-.005	4
28	MP4A	X	10.42	4
29	MP4A	Z	6.016	4
30	MP4A	Mx	.005	4
31	MP4B	X	13.354	4
32	MP4B	Z	7.71	4
33	MP4B	Mx	0	4
34	MP4C	X	10.42	4
35	MP4C	Z	6.016	4
36	MP4C	Mx	-.005	4
37	MP1A	X	8.642	2
38	MP1A	Z	4.99	2
39	MP1A	Mx	-.004	2
40	MP1A	X	8.642	6
41	MP1A	Z	4.99	6
42	MP1A	Mx	-.004	6
43	MP1B	X	10.444	2
44	MP1B	Z	6.03	2
45	MP1B	Mx	0	2
46	MP1B	X	10.444	6
47	MP1B	Z	6.03	6
48	MP1B	Mx	0	6
49	MP1C	X	8.642	2
50	MP1C	Z	4.99	2
51	MP1C	Mx	.004	2
52	MP1C	X	8.642	6
53	MP1C	Z	4.99	6
54	MP1C	Mx	.004	6
55	MP5A	X	8.642	2
56	MP5A	Z	4.99	2
57	MP5A	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	8.642	6
59	MP5A	Z	4.99	6
60	MP5A	Mx	-.004	6
61	MP5B	X	10.444	2
62	MP5B	Z	6.03	2
63	MP5B	Mx	0	2
64	MP5B	X	10.444	6
65	MP5B	Z	6.03	6
66	MP5B	Mx	0	6
67	MP5C	X	8.642	2
68	MP5C	Z	4.99	2
69	MP5C	Mx	.004	2
70	MP5C	X	8.642	6
71	MP5C	Z	4.99	6
72	MP5C	Mx	.004	6
73	MP3A	X	26.422	2
74	MP3A	Z	15.255	2
75	MP3A	Mx	-.003	2
76	MP3A	X	26.422	6
77	MP3A	Z	15.255	6
78	MP3A	Mx	-.003	6
79	MP3B	X	32.336	2
80	MP3B	Z	18.669	2
81	MP3B	Mx	-.025	2
82	MP3B	X	32.336	6
83	MP3B	Z	18.669	6
84	MP3B	Mx	-.025	6
85	MP3C	X	26.422	2
86	MP3C	Z	15.255	2
87	MP3C	Mx	.023	2
88	MP3C	X	26.422	6
89	MP3C	Z	15.255	6
90	MP3C	Mx	.023	6
91	MP3A	X	26.422	2
92	MP3A	Z	15.255	2
93	MP3A	Mx	-.023	2
94	MP3A	X	26.422	6
95	MP3A	Z	15.255	6
96	MP3A	Mx	-.023	6
97	MP3B	X	32.336	2
98	MP3B	Z	18.669	2
99	MP3B	Mx	.025	2
100	MP3B	X	32.336	6
101	MP3B	Z	18.669	6
102	MP3B	Mx	.025	6
103	MP3C	X	26.422	2
104	MP3C	Z	15.255	2
105	MP3C	Mx	.003	2
106	MP3C	X	26.422	6
107	MP3C	Z	15.255	6
108	MP3C	Mx	.003	6
109	MP6A	X	22.373	2
110	MP6A	Z	12.917	2
111	MP6A	Mx	0	2
112	MP1A	X	6.093	0
113	MP1A	Z	3.518	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	6.393	3
2	MP4A	Z	11.073	3
3	MP4A	Mx	-.004	3
4	MP4A	X	6.393	5
5	MP4A	Z	11.073	5
6	MP4A	Mx	-.004	5
7	MP4B	X	6.393	3
8	MP4B	Z	11.073	3
9	MP4B	Mx	-.004	3
10	MP4B	X	6.393	5
11	MP4B	Z	11.073	5
12	MP4B	Mx	-.004	5
13	MP4C	X	3.148	3
14	MP4C	Z	5.452	3
15	MP4C	Mx	.004	3
16	MP4C	X	3.148	5
17	MP4C	Z	5.452	5
18	MP4C	Mx	.004	5
19	MP3A	X	7.122	4
20	MP3A	Z	12.335	4
21	MP3A	Mx	.004	4
22	MP3B	X	7.122	4
23	MP3B	Z	12.335	4
24	MP3B	Mx	.004	4
25	MP3C	X	5.357	4
26	MP3C	Z	9.278	4
27	MP3C	Mx	-.005	4
28	MP4A	X	7.145	4
29	MP4A	Z	12.376	4
30	MP4A	Mx	.004	4
31	MP4B	X	7.145	4
32	MP4B	Z	12.376	4
33	MP4B	Mx	.004	4
34	MP4C	X	5.451	4
35	MP4C	Z	9.442	4
36	MP4C	Mx	-.005	4
37	MP1A	X	5.683	2
38	MP1A	Z	9.844	2
39	MP1A	Mx	-.003	2
40	MP1A	X	5.683	6
41	MP1A	Z	9.844	6
42	MP1A	Mx	-.003	6
43	MP1B	X	5.683	2
44	MP1B	Z	9.844	2
45	MP1B	Mx	-.003	2
46	MP1B	X	5.683	6
47	MP1B	Z	9.844	6
48	MP1B	Mx	-.003	6
49	MP1C	X	4.643	2
50	MP1C	Z	8.042	2
51	MP1C	Mx	.005	2
52	MP1C	X	4.643	6
53	MP1C	Z	8.042	6
54	MP1C	Mx	.005	6
55	MP5A	X	5.683	2
56	MP5A	Z	9.844	2
57	MP5A	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	5.683	6
59	MP5A	Z	9.844	6
60	MP5A	Mx	-.003	6
61	MP5B	X	5.683	2
62	MP5B	Z	9.844	2
63	MP5B	Mx	-.003	2
64	MP5B	X	5.683	6
65	MP5B	Z	9.844	6
66	MP5B	Mx	-.003	6
67	MP5C	X	4.643	2
68	MP5C	Z	8.042	2
69	MP5C	Mx	.005	2
70	MP5C	X	4.643	6
71	MP5C	Z	8.042	6
72	MP5C	Mx	.005	6
73	MP3A	X	17.531	2
74	MP3A	Z	30.365	2
75	MP3A	Mx	.011	2
76	MP3A	X	17.531	6
77	MP3A	Z	30.365	6
78	MP3A	Mx	.011	6
79	MP3B	X	17.531	2
80	MP3B	Z	30.365	2
81	MP3B	Mx	-.029	2
82	MP3B	X	17.531	6
83	MP3B	Z	30.365	6
84	MP3B	Mx	-.029	6
85	MP3C	X	14.116	2
86	MP3C	Z	24.45	2
87	MP3C	Mx	.014	2
88	MP3C	X	14.116	6
89	MP3C	Z	24.45	6
90	MP3C	Mx	.014	6
91	MP3A	X	17.531	2
92	MP3A	Z	30.365	2
93	MP3A	Mx	-.029	2
94	MP3A	X	17.531	6
95	MP3A	Z	30.365	6
96	MP3A	Mx	-.029	6
97	MP3B	X	17.531	2
98	MP3B	Z	30.365	2
99	MP3B	Mx	.011	2
100	MP3B	X	17.531	6
101	MP3B	Z	30.365	6
102	MP3B	Mx	.011	6
103	MP3C	X	14.116	2
104	MP3C	Z	24.45	2
105	MP3C	Mx	.014	2
106	MP3C	X	14.116	6
107	MP3C	Z	24.45	6
108	MP3C	Mx	.014	6
109	MP6A	X	10.705	2
110	MP6A	Z	18.542	2
111	MP6A	Mx	0	2
112	MP1A	X	2.976	0
113	MP1A	Z	5.155	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	3
2	MP4A	Z	14.95	3
3	MP4A	Mx	0	3
4	MP4A	X	0	5
5	MP4A	Z	14.95	5
6	MP4A	Mx	0	5
7	MP4B	X	0	3
8	MP4B	Z	8.459	3
9	MP4B	Mx	-.005	3
10	MP4B	X	0	5
11	MP4B	Z	8.459	5
12	MP4B	Mx	-.005	5
13	MP4C	X	0	3
14	MP4C	Z	8.459	3
15	MP4C	Mx	.005	3
16	MP4C	X	0	5
17	MP4C	Z	8.459	5
18	MP4C	Mx	.005	5
19	MP3A	X	0	4
20	MP3A	Z	15.42	4
21	MP3A	Mx	0	4
22	MP3B	X	0	4
23	MP3B	Z	11.89	4
24	MP3B	Mx	.005	4
25	MP3C	X	0	4
26	MP3C	Z	11.89	4
27	MP3C	Mx	-.005	4
28	MP4A	X	0	4
29	MP4A	Z	15.42	4
30	MP4A	Mx	0	4
31	MP4B	X	0	4
32	MP4B	Z	12.032	4
33	MP4B	Mx	.005	4
34	MP4C	X	0	4
35	MP4C	Z	12.032	4
36	MP4C	Mx	-.005	4
37	MP1A	X	0	2
38	MP1A	Z	12.06	2
39	MP1A	Mx	0	2
40	MP1A	X	0	6
41	MP1A	Z	12.06	6
42	MP1A	Mx	0	6
43	MP1B	X	0	2
44	MP1B	Z	9.979	2
45	MP1B	Mx	-.004	2
46	MP1B	X	0	6
47	MP1B	Z	9.979	6
48	MP1B	Mx	-.004	6
49	MP1C	X	0	2
50	MP1C	Z	9.979	2
51	MP1C	Mx	.004	2
52	MP1C	X	0	6
53	MP1C	Z	9.979	6
54	MP1C	Mx	.004	6
55	MP5A	X	0	2
56	MP5A	Z	12.06	2
57	MP5A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	0	6
59	MP5A	Z	12.06	6
60	MP5A	Mx	0	6
61	MP5B	X	0	2
62	MP5B	Z	9.979	2
63	MP5B	Mx	-.004	2
64	MP5B	X	0	6
65	MP5B	Z	9.979	6
66	MP5B	Mx	-.004	6
67	MP5C	X	0	2
68	MP5C	Z	9.979	2
69	MP5C	Mx	.004	2
70	MP5C	X	0	6
71	MP5C	Z	9.979	6
72	MP5C	Mx	.004	6
73	MP3A	X	0	2
74	MP3A	Z	37.339	2
75	MP3A	Mx	.025	2
76	MP3A	X	0	6
77	MP3A	Z	37.339	6
78	MP3A	Mx	.025	6
79	MP3B	X	0	2
80	MP3B	Z	30.509	2
81	MP3B	Mx	-.023	2
82	MP3B	X	0	6
83	MP3B	Z	30.509	6
84	MP3B	Mx	-.023	6
85	MP3C	X	0	2
86	MP3C	Z	30.509	2
87	MP3C	Mx	.003	2
88	MP3C	X	0	6
89	MP3C	Z	30.509	6
90	MP3C	Mx	.003	6
91	MP3A	X	0	2
92	MP3A	Z	37.339	2
93	MP3A	Mx	-.025	2
94	MP3A	X	0	6
95	MP3A	Z	37.339	6
96	MP3A	Mx	-.025	6
97	MP3B	X	0	2
98	MP3B	Z	30.509	2
99	MP3B	Mx	-.003	2
100	MP3B	X	0	6
101	MP3B	Z	30.509	6
102	MP3B	Mx	-.003	6
103	MP3C	X	0	2
104	MP3C	Z	30.509	2
105	MP3C	Mx	.023	2
106	MP3C	X	0	6
107	MP3C	Z	30.509	6
108	MP3C	Mx	.023	6
109	MP6A	X	0	2
110	MP6A	Z	20.593	2
111	MP6A	Mx	0	2
112	MP1A	X	0	0
113	MP1A	Z	5.753	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-6.393	3
2	MP4A	Z	11.073	3
3	MP4A	Mx	.004	3
4	MP4A	X	-6.393	5
5	MP4A	Z	11.073	5
6	MP4A	Mx	.004	5
7	MP4B	X	-3.148	3
8	MP4B	Z	5.452	3
9	MP4B	Mx	-.004	3
10	MP4B	X	-3.148	5
11	MP4B	Z	5.452	5
12	MP4B	Mx	-.004	5
13	MP4C	X	-6.393	3
14	MP4C	Z	11.073	3
15	MP4C	Mx	.004	3
16	MP4C	X	-6.393	5
17	MP4C	Z	11.073	5
18	MP4C	Mx	.004	5
19	MP3A	X	-7.122	4
20	MP3A	Z	12.335	4
21	MP3A	Mx	-.004	4
22	MP3B	X	-5.357	4
23	MP3B	Z	9.278	4
24	MP3B	Mx	.005	4
25	MP3C	X	-7.122	4
26	MP3C	Z	12.335	4
27	MP3C	Mx	-.004	4
28	MP4A	X	-7.145	4
29	MP4A	Z	12.376	4
30	MP4A	Mx	-.004	4
31	MP4B	X	-5.451	4
32	MP4B	Z	9.442	4
33	MP4B	Mx	.005	4
34	MP4C	X	-7.145	4
35	MP4C	Z	12.376	4
36	MP4C	Mx	-.004	4
37	MP1A	X	-5.683	2
38	MP1A	Z	9.844	2
39	MP1A	Mx	.003	2
40	MP1A	X	-5.683	6
41	MP1A	Z	9.844	6
42	MP1A	Mx	.003	6
43	MP1B	X	-4.643	2
44	MP1B	Z	8.042	2
45	MP1B	Mx	-.005	2
46	MP1B	X	-4.643	6
47	MP1B	Z	8.042	6
48	MP1B	Mx	-.005	6
49	MP1C	X	-5.683	2
50	MP1C	Z	9.844	2
51	MP1C	Mx	.003	2
52	MP1C	X	-5.683	6
53	MP1C	Z	9.844	6
54	MP1C	Mx	.003	6
55	MP5A	X	-5.683	2
56	MP5A	Z	9.844	2
57	MP5A	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-5.683	6
59	MP5A	Z	9.844	6
60	MP5A	Mx	.003	6
61	MP5B	X	-4.643	2
62	MP5B	Z	8.042	2
63	MP5B	Mx	-.005	2
64	MP5B	X	-4.643	6
65	MP5B	Z	8.042	6
66	MP5B	Mx	-.005	6
67	MP5C	X	-5.683	2
68	MP5C	Z	9.844	2
69	MP5C	Mx	.003	2
70	MP5C	X	-5.683	6
71	MP5C	Z	9.844	6
72	MP5C	Mx	.003	6
73	MP3A	X	-17.531	2
74	MP3A	Z	30.365	2
75	MP3A	Mx	.029	2
76	MP3A	X	-17.531	6
77	MP3A	Z	30.365	6
78	MP3A	Mx	.029	6
79	MP3B	X	-14.116	2
80	MP3B	Z	24.45	2
81	MP3B	Mx	-.014	2
82	MP3B	X	-14.116	6
83	MP3B	Z	24.45	6
84	MP3B	Mx	-.014	6
85	MP3C	X	-17.531	2
86	MP3C	Z	30.365	2
87	MP3C	Mx	-.011	2
88	MP3C	X	-17.531	6
89	MP3C	Z	30.365	6
90	MP3C	Mx	-.011	6
91	MP3A	X	-17.531	2
92	MP3A	Z	30.365	2
93	MP3A	Mx	-.011	2
94	MP3A	X	-17.531	6
95	MP3A	Z	30.365	6
96	MP3A	Mx	-.011	6
97	MP3B	X	-14.116	2
98	MP3B	Z	24.45	2
99	MP3B	Mx	-.014	2
100	MP3B	X	-14.116	6
101	MP3B	Z	24.45	6
102	MP3B	Mx	-.014	6
103	MP3C	X	-17.531	2
104	MP3C	Z	30.365	2
105	MP3C	Mx	.029	2
106	MP3C	X	-17.531	6
107	MP3C	Z	30.365	6
108	MP3C	Mx	.029	6
109	MP6A	X	-12.1	2
110	MP6A	Z	20.957	2
111	MP6A	Mx	0	2
112	MP1A	X	-3.318	0
113	MP1A	Z	5.746	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-7.326	3
2	MP4A	Z	4.229	3
3	MP4A	Mx	.005	3
4	MP4A	X	-7.326	5
5	MP4A	Z	4.229	5
6	MP4A	Mx	.005	5
7	MP4B	X	-7.326	3
8	MP4B	Z	4.229	3
9	MP4B	Mx	-.005	3
10	MP4B	X	-7.326	5
11	MP4B	Z	4.229	5
12	MP4B	Mx	-.005	5
13	MP4C	X	-12.947	3
14	MP4C	Z	7.475	3
15	MP4C	Mx	0	3
16	MP4C	X	-12.947	5
17	MP4C	Z	7.475	5
18	MP4C	Mx	0	5
19	MP3A	X	-10.297	4
20	MP3A	Z	5.945	4
21	MP3A	Mx	-.005	4
22	MP3B	X	-10.297	4
23	MP3B	Z	5.945	4
24	MP3B	Mx	.005	4
25	MP3C	X	-13.354	4
26	MP3C	Z	7.71	4
27	MP3C	Mx	0	4
28	MP4A	X	-10.42	4
29	MP4A	Z	6.016	4
30	MP4A	Mx	-.005	4
31	MP4B	X	-10.42	4
32	MP4B	Z	6.016	4
33	MP4B	Mx	.005	4
34	MP4C	X	-13.354	4
35	MP4C	Z	7.71	4
36	MP4C	Mx	0	4
37	MP1A	X	-8.642	2
38	MP1A	Z	4.99	2
39	MP1A	Mx	.004	2
40	MP1A	X	-8.642	6
41	MP1A	Z	4.99	6
42	MP1A	Mx	.004	6
43	MP1B	X	-8.642	2
44	MP1B	Z	4.99	2
45	MP1B	Mx	-.004	2
46	MP1B	X	-8.642	6
47	MP1B	Z	4.99	6
48	MP1B	Mx	-.004	6
49	MP1C	X	-10.444	2
50	MP1C	Z	6.03	2
51	MP1C	Mx	0	2
52	MP1C	X	-10.444	6
53	MP1C	Z	6.03	6
54	MP1C	Mx	0	6
55	MP5A	X	-8.642	2
56	MP5A	Z	4.99	2
57	MP5A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-8.642	6
59	MP5A	Z	4.99	6
60	MP5A	Mx	.004	6
61	MP5B	X	-8.642	2
62	MP5B	Z	4.99	2
63	MP5B	Mx	-.004	2
64	MP5B	X	-8.642	6
65	MP5B	Z	4.99	6
66	MP5B	Mx	-.004	6
67	MP5C	X	-10.444	2
68	MP5C	Z	6.03	2
69	MP5C	Mx	0	2
70	MP5C	X	-10.444	6
71	MP5C	Z	6.03	6
72	MP5C	Mx	0	6
73	MP3A	X	-26.422	2
74	MP3A	Z	15.255	2
75	MP3A	Mx	.023	2
76	MP3A	X	-26.422	6
77	MP3A	Z	15.255	6
78	MP3A	Mx	.023	6
79	MP3B	X	-26.422	2
80	MP3B	Z	15.255	2
81	MP3B	Mx	-.003	2
82	MP3B	X	-26.422	6
83	MP3B	Z	15.255	6
84	MP3B	Mx	-.003	6
85	MP3C	X	-32.336	2
86	MP3C	Z	18.669	2
87	MP3C	Mx	-.025	2
88	MP3C	X	-32.336	6
89	MP3C	Z	18.669	6
90	MP3C	Mx	-.025	6
91	MP3A	X	-26.422	2
92	MP3A	Z	15.255	2
93	MP3A	Mx	.003	2
94	MP3A	X	-26.422	6
95	MP3A	Z	15.255	6
96	MP3A	Mx	.003	6
97	MP3B	X	-26.422	2
98	MP3B	Z	15.255	2
99	MP3B	Mx	-.023	2
100	MP3B	X	-26.422	6
101	MP3B	Z	15.255	6
102	MP3B	Mx	-.023	6
103	MP3C	X	-32.336	2
104	MP3C	Z	18.669	2
105	MP3C	Mx	.025	2
106	MP3C	X	-32.336	6
107	MP3C	Z	18.669	6
108	MP3C	Mx	.025	6
109	MP6A	X	-24.788	2
110	MP6A	Z	14.312	2
111	MP6A	Mx	0	2
112	MP1A	X	-6.684	0
113	MP1A	Z	3.859	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-6.295	3
2	MP4A	Z	0	3
3	MP4A	Mx	.004	3
4	MP4A	X	-6.295	5
5	MP4A	Z	0	5
6	MP4A	Mx	.004	5
7	MP4B	X	-12.786	3
8	MP4B	Z	0	3
9	MP4B	Mx	-.004	3
10	MP4B	X	-12.786	5
11	MP4B	Z	0	5
12	MP4B	Mx	-.004	5
13	MP4C	X	-12.786	3
14	MP4C	Z	0	3
15	MP4C	Mx	-.004	3
16	MP4C	X	-12.786	5
17	MP4C	Z	0	5
18	MP4C	Mx	-.004	5
19	MP3A	X	-10.714	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.005	4
22	MP3B	X	-14.244	4
23	MP3B	Z	0	4
24	MP3B	Mx	.004	4
25	MP3C	X	-14.244	4
26	MP3C	Z	0	4
27	MP3C	Mx	.004	4
28	MP4A	X	-10.902	4
29	MP4A	Z	0	4
30	MP4A	Mx	-.005	4
31	MP4B	X	-14.291	4
32	MP4B	Z	0	4
33	MP4B	Mx	.004	4
34	MP4C	X	-14.291	4
35	MP4C	Z	0	4
36	MP4C	Mx	.004	4
37	MP1A	X	-9.286	2
38	MP1A	Z	0	2
39	MP1A	Mx	.005	2
40	MP1A	X	-9.286	6
41	MP1A	Z	0	6
42	MP1A	Mx	.005	6
43	MP1B	X	-11.367	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.003	2
46	MP1B	X	-11.367	6
47	MP1B	Z	0	6
48	MP1B	Mx	-.003	6
49	MP1C	X	-11.367	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.003	2
52	MP1C	X	-11.367	6
53	MP1C	Z	0	6
54	MP1C	Mx	-.003	6
55	MP5A	X	-9.286	2
56	MP5A	Z	0	2
57	MP5A	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-9.286	6
59	MP5A	Z	0	6
60	MP5A	Mx	.005	6
61	MP5B	X	-11.367	2
62	MP5B	Z	0	2
63	MP5B	Mx	-.003	2
64	MP5B	X	-11.367	6
65	MP5B	Z	0	6
66	MP5B	Mx	-.003	6
67	MP5C	X	-11.367	2
68	MP5C	Z	0	2
69	MP5C	Mx	-.003	2
70	MP5C	X	-11.367	6
71	MP5C	Z	0	6
72	MP5C	Mx	-.003	6
73	MP3A	X	-28.233	2
74	MP3A	Z	0	2
75	MP3A	Mx	.014	2
76	MP3A	X	-28.233	6
77	MP3A	Z	0	6
78	MP3A	Mx	.014	6
79	MP3B	X	-35.062	2
80	MP3B	Z	0	2
81	MP3B	Mx	.011	2
82	MP3B	X	-35.062	6
83	MP3B	Z	0	6
84	MP3B	Mx	.011	6
85	MP3C	X	-35.062	2
86	MP3C	Z	0	2
87	MP3C	Mx	-.029	2
88	MP3C	X	-35.062	6
89	MP3C	Z	0	6
90	MP3C	Mx	-.029	6
91	MP3A	X	-28.233	2
92	MP3A	Z	0	2
93	MP3A	Mx	.014	2
94	MP3A	X	-28.233	6
95	MP3A	Z	0	6
96	MP3A	Mx	.014	6
97	MP3B	X	-35.062	2
98	MP3B	Z	0	2
99	MP3B	Mx	-.029	2
100	MP3B	X	-35.062	6
101	MP3B	Z	0	6
102	MP3B	Mx	-.029	6
103	MP3C	X	-35.062	2
104	MP3C	Z	0	2
105	MP3C	Mx	.011	2
106	MP3C	X	-35.062	6
107	MP3C	Z	0	6
108	MP3C	Mx	.011	6
109	MP6A	X	-29.441	2
110	MP6A	Z	0	2
111	MP6A	Mx	0	2
112	MP1A	X	-7.918	0
113	MP1A	Z	0	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-7.326	3
2	MP4A	Z	-4.229	3
3	MP4A	Mx	.005	3
4	MP4A	X	-7.326	5
5	MP4A	Z	-4.229	5
6	MP4A	Mx	.005	5
7	MP4B	X	-12.947	3
8	MP4B	Z	-7.475	3
9	MP4B	Mx	0	3
10	MP4B	X	-12.947	5
11	MP4B	Z	-7.475	5
12	MP4B	Mx	0	5
13	MP4C	X	-7.326	3
14	MP4C	Z	-4.229	3
15	MP4C	Mx	-.005	3
16	MP4C	X	-7.326	5
17	MP4C	Z	-4.229	5
18	MP4C	Mx	-.005	5
19	MP3A	X	-10.297	4
20	MP3A	Z	-5.945	4
21	MP3A	Mx	-.005	4
22	MP3B	X	-13.354	4
23	MP3B	Z	-7.71	4
24	MP3B	Mx	0	4
25	MP3C	X	-10.297	4
26	MP3C	Z	-5.945	4
27	MP3C	Mx	.005	4
28	MP4A	X	-10.42	4
29	MP4A	Z	-6.016	4
30	MP4A	Mx	-.005	4
31	MP4B	X	-13.354	4
32	MP4B	Z	-7.71	4
33	MP4B	Mx	0	4
34	MP4C	X	-10.42	4
35	MP4C	Z	-6.016	4
36	MP4C	Mx	.005	4
37	MP1A	X	-8.642	2
38	MP1A	Z	-4.99	2
39	MP1A	Mx	.004	2
40	MP1A	X	-8.642	6
41	MP1A	Z	-4.99	6
42	MP1A	Mx	.004	6
43	MP1B	X	-10.444	2
44	MP1B	Z	-6.03	2
45	MP1B	Mx	0	2
46	MP1B	X	-10.444	6
47	MP1B	Z	-6.03	6
48	MP1B	Mx	0	6
49	MP1C	X	-8.642	2
50	MP1C	Z	-4.99	2
51	MP1C	Mx	-.004	2
52	MP1C	X	-8.642	6
53	MP1C	Z	-4.99	6
54	MP1C	Mx	-.004	6
55	MP5A	X	-8.642	2
56	MP5A	Z	-4.99	2
57	MP5A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-8.642	6
59	MP5A	Z	-4.99	6
60	MP5A	Mx	.004	6
61	MP5B	X	-10.444	2
62	MP5B	Z	-6.03	2
63	MP5B	Mx	0	2
64	MP5B	X	-10.444	6
65	MP5B	Z	-6.03	6
66	MP5B	Mx	0	6
67	MP5C	X	-8.642	2
68	MP5C	Z	-4.99	2
69	MP5C	Mx	-.004	2
70	MP5C	X	-8.642	6
71	MP5C	Z	-4.99	6
72	MP5C	Mx	-.004	6
73	MP3A	X	-26.422	2
74	MP3A	Z	-15.255	2
75	MP3A	Mx	.003	2
76	MP3A	X	-26.422	6
77	MP3A	Z	-15.255	6
78	MP3A	Mx	.003	6
79	MP3B	X	-32.336	2
80	MP3B	Z	-18.669	2
81	MP3B	Mx	.025	2
82	MP3B	X	-32.336	6
83	MP3B	Z	-18.669	6
84	MP3B	Mx	.025	6
85	MP3C	X	-26.422	2
86	MP3C	Z	-15.255	2
87	MP3C	Mx	-.023	2
88	MP3C	X	-26.422	6
89	MP3C	Z	-15.255	6
90	MP3C	Mx	-.023	6
91	MP3A	X	-26.422	2
92	MP3A	Z	-15.255	2
93	MP3A	Mx	.023	2
94	MP3A	X	-26.422	6
95	MP3A	Z	-15.255	6
96	MP3A	Mx	.023	6
97	MP3B	X	-32.336	2
98	MP3B	Z	-18.669	2
99	MP3B	Mx	-.025	2
100	MP3B	X	-32.336	6
101	MP3B	Z	-18.669	6
102	MP3B	Mx	-.025	6
103	MP3C	X	-26.422	2
104	MP3C	Z	-15.255	2
105	MP3C	Mx	-.003	2
106	MP3C	X	-26.422	6
107	MP3C	Z	-15.255	6
108	MP3C	Mx	-.003	6
109	MP6A	X	-22.373	2
110	MP6A	Z	-12.917	2
111	MP6A	Mx	0	2
112	MP1A	X	-6.093	0
113	MP1A	Z	-3.518	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-6.393	3
2	MP4A	Z	-11.073	3
3	MP4A	Mx	.004	3
4	MP4A	X	-6.393	5
5	MP4A	Z	-11.073	5
6	MP4A	Mx	.004	5
7	MP4B	X	-6.393	3
8	MP4B	Z	-11.073	3
9	MP4B	Mx	.004	3
10	MP4B	X	-6.393	5
11	MP4B	Z	-11.073	5
12	MP4B	Mx	.004	5
13	MP4C	X	-3.148	3
14	MP4C	Z	-5.452	3
15	MP4C	Mx	-.004	3
16	MP4C	X	-3.148	5
17	MP4C	Z	-5.452	5
18	MP4C	Mx	-.004	5
19	MP3A	X	-7.122	4
20	MP3A	Z	-12.335	4
21	MP3A	Mx	-.004	4
22	MP3B	X	-7.122	4
23	MP3B	Z	-12.335	4
24	MP3B	Mx	-.004	4
25	MP3C	X	-5.357	4
26	MP3C	Z	-9.278	4
27	MP3C	Mx	.005	4
28	MP4A	X	-7.145	4
29	MP4A	Z	-12.376	4
30	MP4A	Mx	-.004	4
31	MP4B	X	-7.145	4
32	MP4B	Z	-12.376	4
33	MP4B	Mx	-.004	4
34	MP4C	X	-5.451	4
35	MP4C	Z	-9.442	4
36	MP4C	Mx	.005	4
37	MP1A	X	-5.683	2
38	MP1A	Z	-9.844	2
39	MP1A	Mx	.003	2
40	MP1A	X	-5.683	6
41	MP1A	Z	-9.844	6
42	MP1A	Mx	.003	6
43	MP1B	X	-5.683	2
44	MP1B	Z	-9.844	2
45	MP1B	Mx	.003	2
46	MP1B	X	-5.683	6
47	MP1B	Z	-9.844	6
48	MP1B	Mx	.003	6
49	MP1C	X	-4.643	2
50	MP1C	Z	-8.042	2
51	MP1C	Mx	-.005	2
52	MP1C	X	-4.643	6
53	MP1C	Z	-8.042	6
54	MP1C	Mx	-.005	6
55	MP5A	X	-5.683	2
56	MP5A	Z	-9.844	2
57	MP5A	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-5.683	6
59	MP5A	Z	-9.844	6
60	MP5A	Mx	.003	6
61	MP5B	X	-5.683	2
62	MP5B	Z	-9.844	2
63	MP5B	Mx	.003	2
64	MP5B	X	-5.683	6
65	MP5B	Z	-9.844	6
66	MP5B	Mx	.003	6
67	MP5C	X	-4.643	2
68	MP5C	Z	-8.042	2
69	MP5C	Mx	-.005	2
70	MP5C	X	-4.643	6
71	MP5C	Z	-8.042	6
72	MP5C	Mx	-.005	6
73	MP3A	X	-17.531	2
74	MP3A	Z	-30.365	2
75	MP3A	Mx	-.011	2
76	MP3A	X	-17.531	6
77	MP3A	Z	-30.365	6
78	MP3A	Mx	-.011	6
79	MP3B	X	-17.531	2
80	MP3B	Z	-30.365	2
81	MP3B	Mx	.029	2
82	MP3B	X	-17.531	6
83	MP3B	Z	-30.365	6
84	MP3B	Mx	.029	6
85	MP3C	X	-14.116	2
86	MP3C	Z	-24.45	2
87	MP3C	Mx	-.014	2
88	MP3C	X	-14.116	6
89	MP3C	Z	-24.45	6
90	MP3C	Mx	-.014	6
91	MP3A	X	-17.531	2
92	MP3A	Z	-30.365	2
93	MP3A	Mx	.029	2
94	MP3A	X	-17.531	6
95	MP3A	Z	-30.365	6
96	MP3A	Mx	.029	6
97	MP3B	X	-17.531	2
98	MP3B	Z	-30.365	2
99	MP3B	Mx	-.011	2
100	MP3B	X	-17.531	6
101	MP3B	Z	-30.365	6
102	MP3B	Mx	-.011	6
103	MP3C	X	-14.116	2
104	MP3C	Z	-24.45	2
105	MP3C	Mx	-.014	2
106	MP3C	X	-14.116	6
107	MP3C	Z	-24.45	6
108	MP3C	Mx	-.014	6
109	MP6A	X	-10.705	2
110	MP6A	Z	-18.542	2
111	MP6A	Mx	0	2
112	MP1A	X	-2.976	0
113	MP1A	Z	-5.155	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	3
2	MP4A	Z	-4.725	3
3	MP4A	Mx	0	3
4	MP4A	X	0	5
5	MP4A	Z	-4.725	5
6	MP4A	Mx	0	5
7	MP4B	X	0	3
8	MP4B	Z	-2.546	3
9	MP4B	Mx	.001	3
10	MP4B	X	0	5
11	MP4B	Z	-2.546	5
12	MP4B	Mx	.001	5
13	MP4C	X	0	3
14	MP4C	Z	-2.546	3
15	MP4C	Mx	-.001	3
16	MP4C	X	0	5
17	MP4C	Z	-2.546	5
18	MP4C	Mx	-.001	5
19	MP3A	X	0	4
20	MP3A	Z	-3.865	4
21	MP3A	Mx	0	4
22	MP3B	X	0	4
23	MP3B	Z	-2.911	4
24	MP3B	Mx	-.001	4
25	MP3C	X	0	4
26	MP3C	Z	-2.911	4
27	MP3C	Mx	.001	4
28	MP4A	X	0	4
29	MP4A	Z	-4.663	4
30	MP4A	Mx	0	4
31	MP4B	X	0	4
32	MP4B	Z	-3.55	4
33	MP4B	Mx	-.002	4
34	MP4C	X	0	4
35	MP4C	Z	-3.55	4
36	MP4C	Mx	.002	4
37	MP1A	X	0	2
38	MP1A	Z	-3.666	2
39	MP1A	Mx	0	2
40	MP1A	X	0	6
41	MP1A	Z	-3.666	6
42	MP1A	Mx	0	6
43	MP1B	X	0	2
44	MP1B	Z	-2.932	2
45	MP1B	Mx	.001	2
46	MP1B	X	0	6
47	MP1B	Z	-2.932	6
48	MP1B	Mx	.001	6
49	MP1C	X	0	2
50	MP1C	Z	-2.932	2
51	MP1C	Mx	-.001	2
52	MP1C	X	0	6
53	MP1C	Z	-2.932	6
54	MP1C	Mx	-.001	6
55	MP5A	X	0	2
56	MP5A	Z	-3.666	2
57	MP5A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	0	6
59	MP5A	Z	-3.666	6
60	MP5A	Mx	0	6
61	MP5B	X	0	2
62	MP5B	Z	-2.932	2
63	MP5B	Mx	.001	2
64	MP5B	X	0	6
65	MP5B	Z	-2.932	6
66	MP5B	Mx	.001	6
67	MP5C	X	0	2
68	MP5C	Z	-2.932	2
69	MP5C	Mx	-.001	2
70	MP5C	X	0	6
71	MP5C	Z	-2.932	6
72	MP5C	Mx	-.001	6
73	MP3A	X	0	2
74	MP3A	Z	-5.921	2
75	MP3A	Mx	-.004	2
76	MP3A	X	0	6
77	MP3A	Z	-5.921	6
78	MP3A	Mx	-.004	6
79	MP3B	X	0	2
80	MP3B	Z	-4.804	2
81	MP3B	Mx	.004	2
82	MP3B	X	0	6
83	MP3B	Z	-4.804	6
84	MP3B	Mx	.004	6
85	MP3C	X	0	2
86	MP3C	Z	-4.804	2
87	MP3C	Mx	-.000479	2
88	MP3C	X	0	6
89	MP3C	Z	-4.804	6
90	MP3C	Mx	-.000479	6
91	MP3A	X	0	2
92	MP3A	Z	-5.921	2
93	MP3A	Mx	.004	2
94	MP3A	X	0	6
95	MP3A	Z	-5.921	6
96	MP3A	Mx	.004	6
97	MP3B	X	0	2
98	MP3B	Z	-4.804	2
99	MP3B	Mx	.000479	2
100	MP3B	X	0	6
101	MP3B	Z	-4.804	6
102	MP3B	Mx	.000479	6
103	MP3C	X	0	2
104	MP3C	Z	-4.804	2
105	MP3C	Mx	-.004	2
106	MP3C	X	0	6
107	MP3C	Z	-4.804	6
108	MP3C	Mx	-.004	6
109	MP6A	X	0	2
110	MP6A	Z	-6.067	2
111	MP6A	Mx	0	2
112	MP1A	X	0	0
113	MP1A	Z	-1.526	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	1.999	3
2	MP4A	Z	-3.463	3
3	MP4A	Mx	-.001	3
4	MP4A	X	1.999	5
5	MP4A	Z	-3.463	5
6	MP4A	Mx	-.001	5
7	MP4B	X	.91	3
8	MP4B	Z	-1.576	3
9	MP4B	Mx	.001	3
10	MP4B	X	.91	5
11	MP4B	Z	-1.576	5
12	MP4B	Mx	.001	5
13	MP4C	X	1.999	3
14	MP4C	Z	-3.463	3
15	MP4C	Mx	-.001	3
16	MP4C	X	1.999	5
17	MP4C	Z	-3.463	5
18	MP4C	Mx	-.001	5
19	MP3A	X	1.774	4
20	MP3A	Z	-3.072	4
21	MP3A	Mx	.000887	4
22	MP3B	X	1.297	4
23	MP3B	Z	-2.246	4
24	MP3B	Mx	-.001	4
25	MP3C	X	1.774	4
26	MP3C	Z	-3.072	4
27	MP3C	Mx	.000887	4
28	MP4A	X	2.146	4
29	MP4A	Z	-3.717	4
30	MP4A	Mx	.001	4
31	MP4B	X	1.59	4
32	MP4B	Z	-2.753	4
33	MP4B	Mx	-.002	4
34	MP4C	X	2.146	4
35	MP4C	Z	-3.717	4
36	MP4C	Mx	.001	4
37	MP1A	X	1.711	2
38	MP1A	Z	-2.963	2
39	MP1A	Mx	-.000856	2
40	MP1A	X	1.711	6
41	MP1A	Z	-2.963	6
42	MP1A	Mx	-.000856	6
43	MP1B	X	1.344	2
44	MP1B	Z	-2.327	2
45	MP1B	Mx	.001	2
46	MP1B	X	1.344	6
47	MP1B	Z	-2.327	6
48	MP1B	Mx	.001	6
49	MP1C	X	1.711	2
50	MP1C	Z	-2.963	2
51	MP1C	Mx	-.000855	2
52	MP1C	X	1.711	6
53	MP1C	Z	-2.963	6
54	MP1C	Mx	-.000855	6
55	MP5A	X	1.711	2
56	MP5A	Z	-2.963	2
57	MP5A	Mx	-.000856	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	1.711	6
59	MP5A	Z	-2.963	6
60	MP5A	Mx	-.000856	6
61	MP5B	X	1.344	2
62	MP5B	Z	-2.327	2
63	MP5B	Mx	.001	2
64	MP5B	X	1.344	6
65	MP5B	Z	-2.327	6
66	MP5B	Mx	.001	6
67	MP5C	X	1.711	2
68	MP5C	Z	-2.963	2
69	MP5C	Mx	-.000855	2
70	MP5C	X	1.711	6
71	MP5C	Z	-2.963	6
72	MP5C	Mx	-.000855	6
73	MP3A	X	2.774	2
74	MP3A	Z	-4.805	2
75	MP3A	Mx	-.005	2
76	MP3A	X	2.774	6
77	MP3A	Z	-4.805	6
78	MP3A	Mx	-.005	6
79	MP3B	X	2.216	2
80	MP3B	Z	-3.838	2
81	MP3B	Mx	.002	2
82	MP3B	X	2.216	6
83	MP3B	Z	-3.838	6
84	MP3B	Mx	.002	6
85	MP3C	X	2.774	2
86	MP3C	Z	-4.805	2
87	MP3C	Mx	.002	2
88	MP3C	X	2.774	6
89	MP3C	Z	-4.805	6
90	MP3C	Mx	.002	6
91	MP3A	X	2.774	2
92	MP3A	Z	-4.805	2
93	MP3A	Mx	.002	2
94	MP3A	X	2.774	6
95	MP3A	Z	-4.805	6
96	MP3A	Mx	.002	6
97	MP3B	X	2.216	2
98	MP3B	Z	-3.838	2
99	MP3B	Mx	.002	2
100	MP3B	X	2.216	6
101	MP3B	Z	-3.838	6
102	MP3B	Mx	.002	6
103	MP3C	X	2.774	2
104	MP3C	Z	-4.805	2
105	MP3C	Mx	-.005	2
106	MP3C	X	2.774	6
107	MP3C	Z	-4.805	6
108	MP3C	Mx	-.005	6
109	MP6A	X	3.396	2
110	MP6A	Z	-5.883	2
111	MP6A	Mx	0	2
112	MP1A	X	.954	0
113	MP1A	Z	-1.653	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.205	3
2	MP4A	Z	-1.273	3
3	MP4A	Mx	-.001	3
4	MP4A	X	2.205	5
5	MP4A	Z	-1.273	5
6	MP4A	Mx	-.001	5
7	MP4B	X	2.205	3
8	MP4B	Z	-1.273	3
9	MP4B	Mx	.001	3
10	MP4B	X	2.205	5
11	MP4B	Z	-1.273	5
12	MP4B	Mx	.001	5
13	MP4C	X	4.092	3
14	MP4C	Z	-2.363	3
15	MP4C	Mx	0	3
16	MP4C	X	4.092	5
17	MP4C	Z	-2.363	5
18	MP4C	Mx	0	5
19	MP3A	X	2.521	4
20	MP3A	Z	-1.456	4
21	MP3A	Mx	.001	4
22	MP3B	X	2.521	4
23	MP3B	Z	-1.456	4
24	MP3B	Mx	-.001	4
25	MP3C	X	3.347	4
26	MP3C	Z	-1.933	4
27	MP3C	Mx	0	4
28	MP4A	X	3.075	4
29	MP4A	Z	-1.775	4
30	MP4A	Mx	.002	4
31	MP4B	X	3.075	4
32	MP4B	Z	-1.775	4
33	MP4B	Mx	-.002	4
34	MP4C	X	4.038	4
35	MP4C	Z	-2.331	4
36	MP4C	Mx	0	4
37	MP1A	X	2.539	2
38	MP1A	Z	-1.466	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.539	6
41	MP1A	Z	-1.466	6
42	MP1A	Mx	-.001	6
43	MP1B	X	2.539	2
44	MP1B	Z	-1.466	2
45	MP1B	Mx	.001	2
46	MP1B	X	2.539	6
47	MP1B	Z	-1.466	6
48	MP1B	Mx	.001	6
49	MP1C	X	3.174	2
50	MP1C	Z	-1.833	2
51	MP1C	Mx	0	2
52	MP1C	X	3.174	6
53	MP1C	Z	-1.833	6
54	MP1C	Mx	0	6
55	MP5A	X	2.539	2
56	MP5A	Z	-1.466	2
57	MP5A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	2.539	6
59	MP5A	Z	-1.466	6
60	MP5A	Mx	-.001	6
61	MP5B	X	2.539	2
62	MP5B	Z	-1.466	2
63	MP5B	Mx	.001	2
64	MP5B	X	2.539	6
65	MP5B	Z	-1.466	6
66	MP5B	Mx	.001	6
67	MP5C	X	3.174	2
68	MP5C	Z	-1.833	2
69	MP5C	Mx	0	2
70	MP5C	X	3.174	6
71	MP5C	Z	-1.833	6
72	MP5C	Mx	0	6
73	MP3A	X	4.16	2
74	MP3A	Z	-2.402	2
75	MP3A	Mx	-.004	2
76	MP3A	X	4.16	6
77	MP3A	Z	-2.402	6
78	MP3A	Mx	-.004	6
79	MP3B	X	4.16	2
80	MP3B	Z	-2.402	2
81	MP3B	Mx	.000479	2
82	MP3B	X	4.16	6
83	MP3B	Z	-2.402	6
84	MP3B	Mx	.000479	6
85	MP3C	X	5.128	2
86	MP3C	Z	-2.961	2
87	MP3C	Mx	.004	2
88	MP3C	X	5.128	6
89	MP3C	Z	-2.961	6
90	MP3C	Mx	.004	6
91	MP3A	X	4.16	2
92	MP3A	Z	-2.402	2
93	MP3A	Mx	-.000479	2
94	MP3A	X	4.16	6
95	MP3A	Z	-2.402	6
96	MP3A	Mx	-.000479	6
97	MP3B	X	4.16	2
98	MP3B	Z	-2.402	2
99	MP3B	Mx	.004	2
100	MP3B	X	4.16	6
101	MP3B	Z	-2.402	6
102	MP3B	Mx	.004	6
103	MP3C	X	5.128	2
104	MP3C	Z	-2.961	2
105	MP3C	Mx	-.004	2
106	MP3C	X	5.128	6
107	MP3C	Z	-2.961	6
108	MP3C	Mx	-.004	6
109	MP6A	X	6.654	2
110	MP6A	Z	-3.841	2
111	MP6A	Mx	0	2
112	MP1A	X	2.058	0
113	MP1A	Z	-1.188	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	1.82	3
2	MP4A	Z	0	3
3	MP4A	Mx	-.001	3
4	MP4A	X	1.82	5
5	MP4A	Z	0	5
6	MP4A	Mx	-.001	5
7	MP4B	X	3.999	3
8	MP4B	Z	0	3
9	MP4B	Mx	.001	3
10	MP4B	X	3.999	5
11	MP4B	Z	0	5
12	MP4B	Mx	.001	5
13	MP4C	X	3.999	3
14	MP4C	Z	0	3
15	MP4C	Mx	.001	3
16	MP4C	X	3.999	5
17	MP4C	Z	0	5
18	MP4C	Mx	.001	5
19	MP3A	X	2.593	4
20	MP3A	Z	0	4
21	MP3A	Mx	.001	4
22	MP3B	X	3.547	4
23	MP3B	Z	0	4
24	MP3B	Mx	-.000887	4
25	MP3C	X	3.547	4
26	MP3C	Z	0	4
27	MP3C	Mx	-.000887	4
28	MP4A	X	3.179	4
29	MP4A	Z	0	4
30	MP4A	Mx	.002	4
31	MP4B	X	4.292	4
32	MP4B	Z	0	4
33	MP4B	Mx	-.001	4
34	MP4C	X	4.292	4
35	MP4C	Z	0	4
36	MP4C	Mx	-.001	4
37	MP1A	X	2.688	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.688	6
41	MP1A	Z	0	6
42	MP1A	Mx	-.001	6
43	MP1B	X	3.421	2
44	MP1B	Z	0	2
45	MP1B	Mx	.000855	2
46	MP1B	X	3.421	6
47	MP1B	Z	0	6
48	MP1B	Mx	.000855	6
49	MP1C	X	3.421	2
50	MP1C	Z	0	2
51	MP1C	Mx	.000855	2
52	MP1C	X	3.421	6
53	MP1C	Z	0	6
54	MP1C	Mx	.000855	6
55	MP5A	X	2.688	2
56	MP5A	Z	0	2
57	MP5A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	2.688	6
59	MP5A	Z	0	6
60	MP5A	Mx	-.001	6
61	MP5B	X	3.421	2
62	MP5B	Z	0	2
63	MP5B	Mx	.000855	2
64	MP5B	X	3.421	6
65	MP5B	Z	0	6
66	MP5B	Mx	.000855	6
67	MP5C	X	3.421	2
68	MP5C	Z	0	2
69	MP5C	Mx	.000855	2
70	MP5C	X	3.421	6
71	MP5C	Z	0	6
72	MP5C	Mx	.000855	6
73	MP3A	X	4.432	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.002	2
76	MP3A	X	4.432	6
77	MP3A	Z	0	6
78	MP3A	Mx	-.002	6
79	MP3B	X	5.549	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.002	2
82	MP3B	X	5.549	6
83	MP3B	Z	0	6
84	MP3B	Mx	-.002	6
85	MP3C	X	5.549	2
86	MP3C	Z	0	2
87	MP3C	Mx	.005	2
88	MP3C	X	5.549	6
89	MP3C	Z	0	6
90	MP3C	Mx	.005	6
91	MP3A	X	4.432	2
92	MP3A	Z	0	2
93	MP3A	Mx	-.002	2
94	MP3A	X	4.432	6
95	MP3A	Z	0	6
96	MP3A	Mx	-.002	6
97	MP3B	X	5.549	2
98	MP3B	Z	0	2
99	MP3B	Mx	.005	2
100	MP3B	X	5.549	6
101	MP3B	Z	0	6
102	MP3B	Mx	.005	6
103	MP3C	X	5.549	2
104	MP3C	Z	0	2
105	MP3C	Mx	-.002	2
106	MP3C	X	5.549	6
107	MP3C	Z	0	6
108	MP3C	Mx	-.002	6
109	MP6A	X	7.847	2
110	MP6A	Z	0	2
111	MP6A	Mx	0	2
112	MP1A	X	2.463	0
113	MP1A	Z	0	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.205	3
2	MP4A	Z	1.273	3
3	MP4A	Mx	-.001	3
4	MP4A	X	2.205	5
5	MP4A	Z	1.273	5
6	MP4A	Mx	-.001	5
7	MP4B	X	4.092	3
8	MP4B	Z	2.363	3
9	MP4B	Mx	0	3
10	MP4B	X	4.092	5
11	MP4B	Z	2.363	5
12	MP4B	Mx	0	5
13	MP4C	X	2.205	3
14	MP4C	Z	1.273	3
15	MP4C	Mx	.001	3
16	MP4C	X	2.205	5
17	MP4C	Z	1.273	5
18	MP4C	Mx	.001	5
19	MP3A	X	2.521	4
20	MP3A	Z	1.456	4
21	MP3A	Mx	.001	4
22	MP3B	X	3.347	4
23	MP3B	Z	1.933	4
24	MP3B	Mx	0	4
25	MP3C	X	2.521	4
26	MP3C	Z	1.456	4
27	MP3C	Mx	-.001	4
28	MP4A	X	3.075	4
29	MP4A	Z	1.775	4
30	MP4A	Mx	.002	4
31	MP4B	X	4.038	4
32	MP4B	Z	2.331	4
33	MP4B	Mx	0	4
34	MP4C	X	3.075	4
35	MP4C	Z	1.775	4
36	MP4C	Mx	-.002	4
37	MP1A	X	2.539	2
38	MP1A	Z	1.466	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.539	6
41	MP1A	Z	1.466	6
42	MP1A	Mx	-.001	6
43	MP1B	X	3.174	2
44	MP1B	Z	1.833	2
45	MP1B	Mx	0	2
46	MP1B	X	3.174	6
47	MP1B	Z	1.833	6
48	MP1B	Mx	0	6
49	MP1C	X	2.539	2
50	MP1C	Z	1.466	2
51	MP1C	Mx	.001	2
52	MP1C	X	2.539	6
53	MP1C	Z	1.466	6
54	MP1C	Mx	.001	6
55	MP5A	X	2.539	2
56	MP5A	Z	1.466	2
57	MP5A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	2.539	6
59	MP5A	Z	1.466	6
60	MP5A	Mx	-.001	6
61	MP5B	X	3.174	2
62	MP5B	Z	1.833	2
63	MP5B	Mx	0	2
64	MP5B	X	3.174	6
65	MP5B	Z	1.833	6
66	MP5B	Mx	0	6
67	MP5C	X	2.539	2
68	MP5C	Z	1.466	2
69	MP5C	Mx	.001	2
70	MP5C	X	2.539	6
71	MP5C	Z	1.466	6
72	MP5C	Mx	.001	6
73	MP3A	X	4.16	2
74	MP3A	Z	2.402	2
75	MP3A	Mx	-.000479	2
76	MP3A	X	4.16	6
77	MP3A	Z	2.402	6
78	MP3A	Mx	-.000479	6
79	MP3B	X	5.128	2
80	MP3B	Z	2.961	2
81	MP3B	Mx	-.004	2
82	MP3B	X	5.128	6
83	MP3B	Z	2.961	6
84	MP3B	Mx	-.004	6
85	MP3C	X	4.16	2
86	MP3C	Z	2.402	2
87	MP3C	Mx	.004	2
88	MP3C	X	4.16	6
89	MP3C	Z	2.402	6
90	MP3C	Mx	.004	6
91	MP3A	X	4.16	2
92	MP3A	Z	2.402	2
93	MP3A	Mx	-.004	2
94	MP3A	X	4.16	6
95	MP3A	Z	2.402	6
96	MP3A	Mx	-.004	6
97	MP3B	X	5.128	2
98	MP3B	Z	2.961	2
99	MP3B	Mx	.004	2
100	MP3B	X	5.128	6
101	MP3B	Z	2.961	6
102	MP3B	Mx	.004	6
103	MP3C	X	4.16	2
104	MP3C	Z	2.402	2
105	MP3C	Mx	.000479	2
106	MP3C	X	4.16	6
107	MP3C	Z	2.402	6
108	MP3C	Mx	.000479	6
109	MP6A	X	6.168	2
110	MP6A	Z	3.561	2
111	MP6A	Mx	0	2
112	MP1A	X	1.803	0
113	MP1A	Z	1.041	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	1.999	3
2	MP4A	Z	3.463	3
3	MP4A	Mx	-.001	3
4	MP4A	X	1.999	5
5	MP4A	Z	3.463	5
6	MP4A	Mx	-.001	5
7	MP4B	X	1.999	3
8	MP4B	Z	3.463	3
9	MP4B	Mx	-.001	3
10	MP4B	X	1.999	5
11	MP4B	Z	3.463	5
12	MP4B	Mx	-.001	5
13	MP4C	X	.91	3
14	MP4C	Z	1.576	3
15	MP4C	Mx	.001	3
16	MP4C	X	.91	5
17	MP4C	Z	1.576	5
18	MP4C	Mx	.001	5
19	MP3A	X	1.774	4
20	MP3A	Z	3.072	4
21	MP3A	Mx	.000887	4
22	MP3B	X	1.774	4
23	MP3B	Z	3.072	4
24	MP3B	Mx	.000887	4
25	MP3C	X	1.297	4
26	MP3C	Z	2.246	4
27	MP3C	Mx	-.001	4
28	MP4A	X	2.146	4
29	MP4A	Z	3.717	4
30	MP4A	Mx	.001	4
31	MP4B	X	2.146	4
32	MP4B	Z	3.717	4
33	MP4B	Mx	.001	4
34	MP4C	X	1.59	4
35	MP4C	Z	2.753	4
36	MP4C	Mx	-.002	4
37	MP1A	X	1.711	2
38	MP1A	Z	2.963	2
39	MP1A	Mx	-.000856	2
40	MP1A	X	1.711	6
41	MP1A	Z	2.963	6
42	MP1A	Mx	-.000856	6
43	MP1B	X	1.711	2
44	MP1B	Z	2.963	2
45	MP1B	Mx	-.000855	2
46	MP1B	X	1.711	6
47	MP1B	Z	2.963	6
48	MP1B	Mx	-.000855	6
49	MP1C	X	1.344	2
50	MP1C	Z	2.327	2
51	MP1C	Mx	.001	2
52	MP1C	X	1.344	6
53	MP1C	Z	2.327	6
54	MP1C	Mx	.001	6
55	MP5A	X	1.711	2
56	MP5A	Z	2.963	2
57	MP5A	Mx	-.000856	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	1.711	6
59	MP5A	Z	2.963	6
60	MP5A	Mx	-.000856	6
61	MP5B	X	1.711	2
62	MP5B	Z	2.963	2
63	MP5B	Mx	-.000855	2
64	MP5B	X	1.711	6
65	MP5B	Z	2.963	6
66	MP5B	Mx	-.000855	6
67	MP5C	X	1.344	2
68	MP5C	Z	2.327	2
69	MP5C	Mx	.001	2
70	MP5C	X	1.344	6
71	MP5C	Z	2.327	6
72	MP5C	Mx	.001	6
73	MP3A	X	2.774	2
74	MP3A	Z	4.805	2
75	MP3A	Mx	.002	2
76	MP3A	X	2.774	6
77	MP3A	Z	4.805	6
78	MP3A	Mx	.002	6
79	MP3B	X	2.774	2
80	MP3B	Z	4.805	2
81	MP3B	Mx	-.005	2
82	MP3B	X	2.774	6
83	MP3B	Z	4.805	6
84	MP3B	Mx	-.005	6
85	MP3C	X	2.216	2
86	MP3C	Z	3.838	2
87	MP3C	Mx	.002	2
88	MP3C	X	2.216	6
89	MP3C	Z	3.838	6
90	MP3C	Mx	.002	6
91	MP3A	X	2.774	2
92	MP3A	Z	4.805	2
93	MP3A	Mx	-.005	2
94	MP3A	X	2.774	6
95	MP3A	Z	4.805	6
96	MP3A	Mx	-.005	6
97	MP3B	X	2.774	2
98	MP3B	Z	4.805	2
99	MP3B	Mx	.002	2
100	MP3B	X	2.774	6
101	MP3B	Z	4.805	6
102	MP3B	Mx	.002	6
103	MP3C	X	2.216	2
104	MP3C	Z	3.838	2
105	MP3C	Mx	.002	2
106	MP3C	X	2.216	6
107	MP3C	Z	3.838	6
108	MP3C	Mx	.002	6
109	MP6A	X	3.116	2
110	MP6A	Z	5.396	2
111	MP6A	Mx	0	2
112	MP1A	X	.806	0
113	MP1A	Z	1.397	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	3
2	MP4A	Z	4.725	3
3	MP4A	Mx	0	3
4	MP4A	X	0	5
5	MP4A	Z	4.725	5
6	MP4A	Mx	0	5
7	MP4B	X	0	3
8	MP4B	Z	2.546	3
9	MP4B	Mx	-.001	3
10	MP4B	X	0	5
11	MP4B	Z	2.546	5
12	MP4B	Mx	-.001	5
13	MP4C	X	0	3
14	MP4C	Z	2.546	3
15	MP4C	Mx	.001	3
16	MP4C	X	0	5
17	MP4C	Z	2.546	5
18	MP4C	Mx	.001	5
19	MP3A	X	0	4
20	MP3A	Z	3.865	4
21	MP3A	Mx	0	4
22	MP3B	X	0	4
23	MP3B	Z	2.911	4
24	MP3B	Mx	.001	4
25	MP3C	X	0	4
26	MP3C	Z	2.911	4
27	MP3C	Mx	-.001	4
28	MP4A	X	0	4
29	MP4A	Z	4.663	4
30	MP4A	Mx	0	4
31	MP4B	X	0	4
32	MP4B	Z	3.55	4
33	MP4B	Mx	.002	4
34	MP4C	X	0	4
35	MP4C	Z	3.55	4
36	MP4C	Mx	-.002	4
37	MP1A	X	0	2
38	MP1A	Z	3.666	2
39	MP1A	Mx	0	2
40	MP1A	X	0	6
41	MP1A	Z	3.666	6
42	MP1A	Mx	0	6
43	MP1B	X	0	2
44	MP1B	Z	2.932	2
45	MP1B	Mx	-.001	2
46	MP1B	X	0	6
47	MP1B	Z	2.932	6
48	MP1B	Mx	-.001	6
49	MP1C	X	0	2
50	MP1C	Z	2.932	2
51	MP1C	Mx	.001	2
52	MP1C	X	0	6
53	MP1C	Z	2.932	6
54	MP1C	Mx	.001	6
55	MP5A	X	0	2
56	MP5A	Z	3.666	2
57	MP5A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	0	6
59	MP5A	Z	3.666	6
60	MP5A	Mx	0	6
61	MP5B	X	0	2
62	MP5B	Z	2.932	2
63	MP5B	Mx	-.001	2
64	MP5B	X	0	6
65	MP5B	Z	2.932	6
66	MP5B	Mx	-.001	6
67	MP5C	X	0	2
68	MP5C	Z	2.932	2
69	MP5C	Mx	.001	2
70	MP5C	X	0	6
71	MP5C	Z	2.932	6
72	MP5C	Mx	.001	6
73	MP3A	X	0	2
74	MP3A	Z	5.921	2
75	MP3A	Mx	.004	2
76	MP3A	X	0	6
77	MP3A	Z	5.921	6
78	MP3A	Mx	.004	6
79	MP3B	X	0	2
80	MP3B	Z	4.804	2
81	MP3B	Mx	-.004	2
82	MP3B	X	0	6
83	MP3B	Z	4.804	6
84	MP3B	Mx	-.004	6
85	MP3C	X	0	2
86	MP3C	Z	4.804	2
87	MP3C	Mx	.000479	2
88	MP3C	X	0	6
89	MP3C	Z	4.804	6
90	MP3C	Mx	.000479	6
91	MP3A	X	0	2
92	MP3A	Z	5.921	2
93	MP3A	Mx	-.004	2
94	MP3A	X	0	6
95	MP3A	Z	5.921	6
96	MP3A	Mx	-.004	6
97	MP3B	X	0	2
98	MP3B	Z	4.804	2
99	MP3B	Mx	-.000479	2
100	MP3B	X	0	6
101	MP3B	Z	4.804	6
102	MP3B	Mx	-.000479	6
103	MP3C	X	0	2
104	MP3C	Z	4.804	2
105	MP3C	Mx	.004	2
106	MP3C	X	0	6
107	MP3C	Z	4.804	6
108	MP3C	Mx	.004	6
109	MP6A	X	0	2
110	MP6A	Z	6.067	2
111	MP6A	Mx	0	2
112	MP1A	X	0	0
113	MP1A	Z	1.526	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-1.999	3
2	MP4A	Z	3.463	3
3	MP4A	Mx	.001	3
4	MP4A	X	-1.999	5
5	MP4A	Z	3.463	5
6	MP4A	Mx	.001	5
7	MP4B	X	-.91	3
8	MP4B	Z	1.576	3
9	MP4B	Mx	-.001	3
10	MP4B	X	-.91	5
11	MP4B	Z	1.576	5
12	MP4B	Mx	-.001	5
13	MP4C	X	-1.999	3
14	MP4C	Z	3.463	3
15	MP4C	Mx	.001	3
16	MP4C	X	-1.999	5
17	MP4C	Z	3.463	5
18	MP4C	Mx	.001	5
19	MP3A	X	-1.774	4
20	MP3A	Z	3.072	4
21	MP3A	Mx	-.000887	4
22	MP3B	X	-1.297	4
23	MP3B	Z	2.246	4
24	MP3B	Mx	.001	4
25	MP3C	X	-1.774	4
26	MP3C	Z	3.072	4
27	MP3C	Mx	-.000887	4
28	MP4A	X	-2.146	4
29	MP4A	Z	3.717	4
30	MP4A	Mx	-.001	4
31	MP4B	X	-1.59	4
32	MP4B	Z	2.753	4
33	MP4B	Mx	.002	4
34	MP4C	X	-2.146	4
35	MP4C	Z	3.717	4
36	MP4C	Mx	-.001	4
37	MP1A	X	-1.711	2
38	MP1A	Z	2.963	2
39	MP1A	Mx	.000856	2
40	MP1A	X	-1.711	6
41	MP1A	Z	2.963	6
42	MP1A	Mx	.000856	6
43	MP1B	X	-1.344	2
44	MP1B	Z	2.327	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-1.344	6
47	MP1B	Z	2.327	6
48	MP1B	Mx	-.001	6
49	MP1C	X	-1.711	2
50	MP1C	Z	2.963	2
51	MP1C	Mx	.000855	2
52	MP1C	X	-1.711	6
53	MP1C	Z	2.963	6
54	MP1C	Mx	.000855	6
55	MP5A	X	-1.711	2
56	MP5A	Z	2.963	2
57	MP5A	Mx	.000856	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-1.711	6
59	MP5A	Z	2.963	6
60	MP5A	Mx	.000856	6
61	MP5B	X	-1.344	2
62	MP5B	Z	2.327	2
63	MP5B	Mx	-.001	2
64	MP5B	X	-1.344	6
65	MP5B	Z	2.327	6
66	MP5B	Mx	-.001	6
67	MP5C	X	-1.711	2
68	MP5C	Z	2.963	2
69	MP5C	Mx	.000855	2
70	MP5C	X	-1.711	6
71	MP5C	Z	2.963	6
72	MP5C	Mx	.000855	6
73	MP3A	X	-2.774	2
74	MP3A	Z	4.805	2
75	MP3A	Mx	.005	2
76	MP3A	X	-2.774	6
77	MP3A	Z	4.805	6
78	MP3A	Mx	.005	6
79	MP3B	X	-2.216	2
80	MP3B	Z	3.838	2
81	MP3B	Mx	-.002	2
82	MP3B	X	-2.216	6
83	MP3B	Z	3.838	6
84	MP3B	Mx	-.002	6
85	MP3C	X	-2.774	2
86	MP3C	Z	4.805	2
87	MP3C	Mx	-.002	2
88	MP3C	X	-2.774	6
89	MP3C	Z	4.805	6
90	MP3C	Mx	-.002	6
91	MP3A	X	-2.774	2
92	MP3A	Z	4.805	2
93	MP3A	Mx	-.002	2
94	MP3A	X	-2.774	6
95	MP3A	Z	4.805	6
96	MP3A	Mx	-.002	6
97	MP3B	X	-2.216	2
98	MP3B	Z	3.838	2
99	MP3B	Mx	-.002	2
100	MP3B	X	-2.216	6
101	MP3B	Z	3.838	6
102	MP3B	Mx	-.002	6
103	MP3C	X	-2.774	2
104	MP3C	Z	4.805	2
105	MP3C	Mx	.005	2
106	MP3C	X	-2.774	6
107	MP3C	Z	4.805	6
108	MP3C	Mx	.005	6
109	MP6A	X	-3.396	2
110	MP6A	Z	5.883	2
111	MP6A	Mx	0	2
112	MP1A	X	-.954	0
113	MP1A	Z	1.653	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.205	3
2	MP4A	Z	1.273	3
3	MP4A	Mx	.001	3
4	MP4A	X	-2.205	5
5	MP4A	Z	1.273	5
6	MP4A	Mx	.001	5
7	MP4B	X	-2.205	3
8	MP4B	Z	1.273	3
9	MP4B	Mx	-.001	3
10	MP4B	X	-2.205	5
11	MP4B	Z	1.273	5
12	MP4B	Mx	-.001	5
13	MP4C	X	-4.092	3
14	MP4C	Z	2.363	3
15	MP4C	Mx	0	3
16	MP4C	X	-4.092	5
17	MP4C	Z	2.363	5
18	MP4C	Mx	0	5
19	MP3A	X	-2.521	4
20	MP3A	Z	1.456	4
21	MP3A	Mx	-.001	4
22	MP3B	X	-2.521	4
23	MP3B	Z	1.456	4
24	MP3B	Mx	.001	4
25	MP3C	X	-3.347	4
26	MP3C	Z	1.933	4
27	MP3C	Mx	0	4
28	MP4A	X	-3.075	4
29	MP4A	Z	1.775	4
30	MP4A	Mx	-.002	4
31	MP4B	X	-3.075	4
32	MP4B	Z	1.775	4
33	MP4B	Mx	.002	4
34	MP4C	X	-4.038	4
35	MP4C	Z	2.331	4
36	MP4C	Mx	0	4
37	MP1A	X	-2.539	2
38	MP1A	Z	1.466	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.539	6
41	MP1A	Z	1.466	6
42	MP1A	Mx	.001	6
43	MP1B	X	-2.539	2
44	MP1B	Z	1.466	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-2.539	6
47	MP1B	Z	1.466	6
48	MP1B	Mx	-.001	6
49	MP1C	X	-3.174	2
50	MP1C	Z	1.833	2
51	MP1C	Mx	0	2
52	MP1C	X	-3.174	6
53	MP1C	Z	1.833	6
54	MP1C	Mx	0	6
55	MP5A	X	-2.539	2
56	MP5A	Z	1.466	2
57	MP5A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-2.539	6
59	MP5A	Z	1.466	6
60	MP5A	Mx	.001	6
61	MP5B	X	-2.539	2
62	MP5B	Z	1.466	2
63	MP5B	Mx	-.001	2
64	MP5B	X	-2.539	6
65	MP5B	Z	1.466	6
66	MP5B	Mx	-.001	6
67	MP5C	X	-3.174	2
68	MP5C	Z	1.833	2
69	MP5C	Mx	0	2
70	MP5C	X	-3.174	6
71	MP5C	Z	1.833	6
72	MP5C	Mx	0	6
73	MP3A	X	-4.16	2
74	MP3A	Z	2.402	2
75	MP3A	Mx	.004	2
76	MP3A	X	-4.16	6
77	MP3A	Z	2.402	6
78	MP3A	Mx	.004	6
79	MP3B	X	-4.16	2
80	MP3B	Z	2.402	2
81	MP3B	Mx	-.000479	2
82	MP3B	X	-4.16	6
83	MP3B	Z	2.402	6
84	MP3B	Mx	-.000479	6
85	MP3C	X	-5.128	2
86	MP3C	Z	2.961	2
87	MP3C	Mx	-.004	2
88	MP3C	X	-5.128	6
89	MP3C	Z	2.961	6
90	MP3C	Mx	-.004	6
91	MP3A	X	-4.16	2
92	MP3A	Z	2.402	2
93	MP3A	Mx	.000479	2
94	MP3A	X	-4.16	6
95	MP3A	Z	2.402	6
96	MP3A	Mx	.000479	6
97	MP3B	X	-4.16	2
98	MP3B	Z	2.402	2
99	MP3B	Mx	-.004	2
100	MP3B	X	-4.16	6
101	MP3B	Z	2.402	6
102	MP3B	Mx	-.004	6
103	MP3C	X	-5.128	2
104	MP3C	Z	2.961	2
105	MP3C	Mx	.004	2
106	MP3C	X	-5.128	6
107	MP3C	Z	2.961	6
108	MP3C	Mx	.004	6
109	MP6A	X	-6.654	2
110	MP6A	Z	3.841	2
111	MP6A	Mx	0	2
112	MP1A	X	-2.058	0
113	MP1A	Z	1.188	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-1.82	3
2	MP4A	Z	0	3
3	MP4A	Mx	.001	3
4	MP4A	X	-1.82	5
5	MP4A	Z	0	5
6	MP4A	Mx	.001	5
7	MP4B	X	-3.999	3
8	MP4B	Z	0	3
9	MP4B	Mx	-.001	3
10	MP4B	X	-3.999	5
11	MP4B	Z	0	5
12	MP4B	Mx	-.001	5
13	MP4C	X	-3.999	3
14	MP4C	Z	0	3
15	MP4C	Mx	-.001	3
16	MP4C	X	-3.999	5
17	MP4C	Z	0	5
18	MP4C	Mx	-.001	5
19	MP3A	X	-2.593	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.001	4
22	MP3B	X	-3.547	4
23	MP3B	Z	0	4
24	MP3B	Mx	.000887	4
25	MP3C	X	-3.547	4
26	MP3C	Z	0	4
27	MP3C	Mx	.000887	4
28	MP4A	X	-3.179	4
29	MP4A	Z	0	4
30	MP4A	Mx	-.002	4
31	MP4B	X	-4.292	4
32	MP4B	Z	0	4
33	MP4B	Mx	.001	4
34	MP4C	X	-4.292	4
35	MP4C	Z	0	4
36	MP4C	Mx	.001	4
37	MP1A	X	-2.688	2
38	MP1A	Z	0	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.688	6
41	MP1A	Z	0	6
42	MP1A	Mx	.001	6
43	MP1B	X	-3.421	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.000855	2
46	MP1B	X	-3.421	6
47	MP1B	Z	0	6
48	MP1B	Mx	-.000855	6
49	MP1C	X	-3.421	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.000855	2
52	MP1C	X	-3.421	6
53	MP1C	Z	0	6
54	MP1C	Mx	-.000855	6
55	MP5A	X	-2.688	2
56	MP5A	Z	0	2
57	MP5A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-2.688	6
59	MP5A	Z	0	6
60	MP5A	Mx	.001	6
61	MP5B	X	-3.421	2
62	MP5B	Z	0	2
63	MP5B	Mx	-.000855	2
64	MP5B	X	-3.421	6
65	MP5B	Z	0	6
66	MP5B	Mx	-.000855	6
67	MP5C	X	-3.421	2
68	MP5C	Z	0	2
69	MP5C	Mx	-.000855	2
70	MP5C	X	-3.421	6
71	MP5C	Z	0	6
72	MP5C	Mx	-.000855	6
73	MP3A	X	-4.432	2
74	MP3A	Z	0	2
75	MP3A	Mx	.002	2
76	MP3A	X	-4.432	6
77	MP3A	Z	0	6
78	MP3A	Mx	.002	6
79	MP3B	X	-5.549	2
80	MP3B	Z	0	2
81	MP3B	Mx	.002	2
82	MP3B	X	-5.549	6
83	MP3B	Z	0	6
84	MP3B	Mx	.002	6
85	MP3C	X	-5.549	2
86	MP3C	Z	0	2
87	MP3C	Mx	-.005	2
88	MP3C	X	-5.549	6
89	MP3C	Z	0	6
90	MP3C	Mx	-.005	6
91	MP3A	X	-4.432	2
92	MP3A	Z	0	2
93	MP3A	Mx	.002	2
94	MP3A	X	-4.432	6
95	MP3A	Z	0	6
96	MP3A	Mx	.002	6
97	MP3B	X	-5.549	2
98	MP3B	Z	0	2
99	MP3B	Mx	-.005	2
100	MP3B	X	-5.549	6
101	MP3B	Z	0	6
102	MP3B	Mx	-.005	6
103	MP3C	X	-5.549	2
104	MP3C	Z	0	2
105	MP3C	Mx	.002	2
106	MP3C	X	-5.549	6
107	MP3C	Z	0	6
108	MP3C	Mx	.002	6
109	MP6A	X	-7.847	2
110	MP6A	Z	0	2
111	MP6A	Mx	0	2
112	MP1A	X	-2.463	0
113	MP1A	Z	0	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.205	3
2	MP4A	Z	-1.273	3
3	MP4A	Mx	.001	3
4	MP4A	X	-2.205	5
5	MP4A	Z	-1.273	5
6	MP4A	Mx	.001	5
7	MP4B	X	-4.092	3
8	MP4B	Z	-2.363	3
9	MP4B	Mx	0	3
10	MP4B	X	-4.092	5
11	MP4B	Z	-2.363	5
12	MP4B	Mx	0	5
13	MP4C	X	-2.205	3
14	MP4C	Z	-1.273	3
15	MP4C	Mx	-.001	3
16	MP4C	X	-2.205	5
17	MP4C	Z	-1.273	5
18	MP4C	Mx	-.001	5
19	MP3A	X	-2.521	4
20	MP3A	Z	-1.456	4
21	MP3A	Mx	-.001	4
22	MP3B	X	-3.347	4
23	MP3B	Z	-1.933	4
24	MP3B	Mx	0	4
25	MP3C	X	-2.521	4
26	MP3C	Z	-1.456	4
27	MP3C	Mx	.001	4
28	MP4A	X	-3.075	4
29	MP4A	Z	-1.775	4
30	MP4A	Mx	-.002	4
31	MP4B	X	-4.038	4
32	MP4B	Z	-2.331	4
33	MP4B	Mx	0	4
34	MP4C	X	-3.075	4
35	MP4C	Z	-1.775	4
36	MP4C	Mx	.002	4
37	MP1A	X	-2.539	2
38	MP1A	Z	-1.466	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.539	6
41	MP1A	Z	-1.466	6
42	MP1A	Mx	.001	6
43	MP1B	X	-3.174	2
44	MP1B	Z	-1.833	2
45	MP1B	Mx	0	2
46	MP1B	X	-3.174	6
47	MP1B	Z	-1.833	6
48	MP1B	Mx	0	6
49	MP1C	X	-2.539	2
50	MP1C	Z	-1.466	2
51	MP1C	Mx	-.001	2
52	MP1C	X	-2.539	6
53	MP1C	Z	-1.466	6
54	MP1C	Mx	-.001	6
55	MP5A	X	-2.539	2
56	MP5A	Z	-1.466	2
57	MP5A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-2.539	6
59	MP5A	Z	-1.466	6
60	MP5A	Mx	.001	6
61	MP5B	X	-3.174	2
62	MP5B	Z	-1.833	2
63	MP5B	Mx	0	2
64	MP5B	X	-3.174	6
65	MP5B	Z	-1.833	6
66	MP5B	Mx	0	6
67	MP5C	X	-2.539	2
68	MP5C	Z	-1.466	2
69	MP5C	Mx	-.001	2
70	MP5C	X	-2.539	6
71	MP5C	Z	-1.466	6
72	MP5C	Mx	-.001	6
73	MP3A	X	-4.16	2
74	MP3A	Z	-2.402	2
75	MP3A	Mx	.000479	2
76	MP3A	X	-4.16	6
77	MP3A	Z	-2.402	6
78	MP3A	Mx	.000479	6
79	MP3B	X	-5.128	2
80	MP3B	Z	-2.961	2
81	MP3B	Mx	.004	2
82	MP3B	X	-5.128	6
83	MP3B	Z	-2.961	6
84	MP3B	Mx	.004	6
85	MP3C	X	-4.16	2
86	MP3C	Z	-2.402	2
87	MP3C	Mx	-.004	2
88	MP3C	X	-4.16	6
89	MP3C	Z	-2.402	6
90	MP3C	Mx	-.004	6
91	MP3A	X	-4.16	2
92	MP3A	Z	-2.402	2
93	MP3A	Mx	.004	2
94	MP3A	X	-4.16	6
95	MP3A	Z	-2.402	6
96	MP3A	Mx	.004	6
97	MP3B	X	-5.128	2
98	MP3B	Z	-2.961	2
99	MP3B	Mx	-.004	2
100	MP3B	X	-5.128	6
101	MP3B	Z	-2.961	6
102	MP3B	Mx	-.004	6
103	MP3C	X	-4.16	2
104	MP3C	Z	-2.402	2
105	MP3C	Mx	-.000479	2
106	MP3C	X	-4.16	6
107	MP3C	Z	-2.402	6
108	MP3C	Mx	-.000479	6
109	MP6A	X	-6.168	2
110	MP6A	Z	-3.561	2
111	MP6A	Mx	0	2
112	MP1A	X	-1.803	0
113	MP1A	Z	-1.041	0
114	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-1.999	3
2	MP4A	Z	-3.463	3
3	MP4A	Mx	.001	3
4	MP4A	X	-1.999	5
5	MP4A	Z	-3.463	5
6	MP4A	Mx	.001	5
7	MP4B	X	-1.999	3
8	MP4B	Z	-3.463	3
9	MP4B	Mx	.001	3
10	MP4B	X	-1.999	5
11	MP4B	Z	-3.463	5
12	MP4B	Mx	.001	5
13	MP4C	X	-.91	3
14	MP4C	Z	-1.576	3
15	MP4C	Mx	-.001	3
16	MP4C	X	-.91	5
17	MP4C	Z	-1.576	5
18	MP4C	Mx	-.001	5
19	MP3A	X	-1.774	4
20	MP3A	Z	-3.072	4
21	MP3A	Mx	-.000887	4
22	MP3B	X	-1.774	4
23	MP3B	Z	-3.072	4
24	MP3B	Mx	-.000887	4
25	MP3C	X	-1.297	4
26	MP3C	Z	-2.246	4
27	MP3C	Mx	.001	4
28	MP4A	X	-2.146	4
29	MP4A	Z	-3.717	4
30	MP4A	Mx	-.001	4
31	MP4B	X	-2.146	4
32	MP4B	Z	-3.717	4
33	MP4B	Mx	-.001	4
34	MP4C	X	-1.59	4
35	MP4C	Z	-2.753	4
36	MP4C	Mx	.002	4
37	MP1A	X	-1.711	2
38	MP1A	Z	-2.963	2
39	MP1A	Mx	.000856	2
40	MP1A	X	-1.711	6
41	MP1A	Z	-2.963	6
42	MP1A	Mx	.000856	6
43	MP1B	X	-1.711	2
44	MP1B	Z	-2.963	2
45	MP1B	Mx	.000855	2
46	MP1B	X	-1.711	6
47	MP1B	Z	-2.963	6
48	MP1B	Mx	.000855	6
49	MP1C	X	-1.344	2
50	MP1C	Z	-2.327	2
51	MP1C	Mx	-.001	2
52	MP1C	X	-1.344	6
53	MP1C	Z	-2.327	6
54	MP1C	Mx	-.001	6
55	MP5A	X	-1.711	2
56	MP5A	Z	-2.963	2
57	MP5A	Mx	.000856	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP5A	X	-1.711	6
59	MP5A	Z	-2.963	6
60	MP5A	Mx	.000856	6
61	MP5B	X	-1.711	2
62	MP5B	Z	-2.963	2
63	MP5B	Mx	.000855	2
64	MP5B	X	-1.711	6
65	MP5B	Z	-2.963	6
66	MP5B	Mx	.000855	6
67	MP5C	X	-1.344	2
68	MP5C	Z	-2.327	2
69	MP5C	Mx	-.001	2
70	MP5C	X	-1.344	6
71	MP5C	Z	-2.327	6
72	MP5C	Mx	-.001	6
73	MP3A	X	-2.774	2
74	MP3A	Z	-4.805	2
75	MP3A	Mx	-.002	2
76	MP3A	X	-2.774	6
77	MP3A	Z	-4.805	6
78	MP3A	Mx	-.002	6
79	MP3B	X	-2.774	2
80	MP3B	Z	-4.805	2
81	MP3B	Mx	.005	2
82	MP3B	X	-2.774	6
83	MP3B	Z	-4.805	6
84	MP3B	Mx	.005	6
85	MP3C	X	-2.216	2
86	MP3C	Z	-3.838	2
87	MP3C	Mx	-.002	2
88	MP3C	X	-2.216	6
89	MP3C	Z	-3.838	6
90	MP3C	Mx	-.002	6
91	MP3A	X	-2.774	2
92	MP3A	Z	-4.805	2
93	MP3A	Mx	.005	2
94	MP3A	X	-2.774	6
95	MP3A	Z	-4.805	6
96	MP3A	Mx	.005	6
97	MP3B	X	-2.774	2
98	MP3B	Z	-4.805	2
99	MP3B	Mx	-.002	2
100	MP3B	X	-2.774	6
101	MP3B	Z	-4.805	6
102	MP3B	Mx	-.002	6
103	MP3C	X	-2.216	2
104	MP3C	Z	-3.838	2
105	MP3C	Mx	-.002	2
106	MP3C	X	-2.216	6
107	MP3C	Z	-3.838	6
108	MP3C	Mx	-.002	6
109	MP6A	X	-3.116	2
110	MP6A	Z	-5.396	2
111	MP6A	Mx	0	2
112	MP1A	X	-.806	0
113	MP1A	Z	-1.397	0
114	MP1A	Mx	0	0

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LL1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LL2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-1.235	3
2	MP4A	My	-.000823	3
3	MP4A	Mz	0	3
4	MP4A	Y	-1.235	5
5	MP4A	My	-.000823	5
6	MP4A	Mz	0	5
7	MP4B	Y	-1.235	3
8	MP4B	My	.000412	3
9	MP4B	Mz	-.000713	3
10	MP4B	Y	-1.235	5
11	MP4B	My	.000412	5
12	MP4B	Mz	-.000713	5
13	MP4C	Y	-1.235	3
14	MP4C	My	.000412	3
15	MP4C	Mz	.000713	3
16	MP4C	Y	-1.235	5
17	MP4C	My	.000412	5
18	MP4C	Mz	.000713	5
19	MP3A	Y	-3.219	4
20	MP3A	My	.002	4
21	MP3A	Mz	0	4
22	MP3B	Y	-3.219	4
23	MP3B	My	-.000805	4
24	MP3B	Mz	.001	4
25	MP3C	Y	-3.219	4
26	MP3C	My	-.000805	4
27	MP3C	Mz	-.001	4
28	MP4A	Y	-3.409	4
29	MP4A	My	.002	4
30	MP4A	Mz	0	4
31	MP4B	Y	-3.409	4
32	MP4B	My	-.000852	4
33	MP4B	Mz	.001	4
34	MP4C	Y	-3.409	4
35	MP4C	My	-.000852	4
36	MP4C	Mz	-.001	4
37	MP1A	Y	-.226	2
38	MP1A	My	-.000113	2
39	MP1A	Mz	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	Y	-.226	6
41	MP1A	My	-.000113	6
42	MP1A	Mz	0	6
43	MP1B	Y	-.226	2
44	MP1B	My	5.7e-5	2
45	MP1B	Mz	-9.8e-5	2
46	MP1B	Y	-.226	6
47	MP1B	My	5.7e-5	6
48	MP1B	Mz	-9.8e-5	6
49	MP1C	Y	-.226	2
50	MP1C	My	5.7e-5	2
51	MP1C	Mz	9.8e-5	2
52	MP1C	Y	-.226	6
53	MP1C	My	5.7e-5	6
54	MP1C	Mz	9.8e-5	6
55	MP5A	Y	-.226	2
56	MP5A	My	-.000113	2
57	MP5A	Mz	0	2
58	MP5A	Y	-.226	6
59	MP5A	My	-.000113	6
60	MP5A	Mz	0	6
61	MP5B	Y	-.226	2
62	MP5B	My	5.7e-5	2
63	MP5B	Mz	-9.8e-5	2
64	MP5B	Y	-.226	6
65	MP5B	My	5.7e-5	6
66	MP5B	Mz	-9.8e-5	6
67	MP5C	Y	-.226	2
68	MP5C	My	5.7e-5	2
69	MP5C	Mz	9.8e-5	2
70	MP5C	Y	-.226	6
71	MP5C	My	5.7e-5	6
72	MP5C	Mz	9.8e-5	6
73	MP3A	Y	-.991	2
74	MP3A	My	-.000496	2
75	MP3A	Mz	.000661	2
76	MP3A	Y	-.991	6
77	MP3A	My	-.000496	6
78	MP3A	Mz	.000661	6
79	MP3B	Y	-.991	2
80	MP3B	My	-.000324	2
81	MP3B	Mz	-.00076	2
82	MP3B	Y	-.991	6
83	MP3B	My	-.000324	6
84	MP3B	Mz	-.00076	6
85	MP3C	Y	-.991	2
86	MP3C	My	.00082	2
87	MP3C	Mz	9.9e-5	2
88	MP3C	Y	-.991	6
89	MP3C	My	.00082	6
90	MP3C	Mz	9.9e-5	6
91	MP3A	Y	-.991	2
92	MP3A	My	-.000496	2
93	MP3A	Mz	-.000661	2
94	MP3A	Y	-.991	6
95	MP3A	My	-.000496	6
96	MP3A	Mz	-.000661	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP3B	Y	-.991	2
98	MP3B	My	.00082	2
99	MP3B	Mz	-9.9e-5	2
100	MP3B	Y	-.991	6
101	MP3B	My	.00082	6
102	MP3B	Mz	-9.9e-5	6
103	MP3C	Y	-.991	2
104	MP3C	My	-.000324	2
105	MP3C	Mz	.00076	2
106	MP3C	Y	-.991	6
107	MP3C	My	-.000324	6
108	MP3C	Mz	.00076	6
109	MP6A	Y	-1.379	2
110	MP6A	My	0	2
111	MP6A	Mz	0	2
112	MP1A	Y	-.431	0
113	MP1A	My	0	0
114	MP1A	Mz	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Z	-3.087	3
2	MP4A	Mx	0	3
3	MP4A	Z	-3.087	5
4	MP4A	Mx	0	5
5	MP4B	Z	-3.087	3
6	MP4B	Mx	.002	3
7	MP4B	Z	-3.087	5
8	MP4B	Mx	.002	5
9	MP4C	Z	-3.087	3
10	MP4C	Mx	-.002	3
11	MP4C	Z	-3.087	5
12	MP4C	Mx	-.002	5
13	MP3A	Z	-8.048	4
14	MP3A	Mx	0	4
15	MP3B	Z	-8.048	4
16	MP3B	Mx	-.003	4
17	MP3C	Z	-8.048	4
18	MP3C	Mx	.003	4
19	MP4A	Z	-8.522	4
20	MP4A	Mx	0	4
21	MP4B	Z	-8.522	4
22	MP4B	Mx	-.004	4
23	MP4C	Z	-8.522	4
24	MP4C	Mx	.004	4
25	MP1A	Z	-.566	2
26	MP1A	Mx	0	2
27	MP1A	Z	-.566	6
28	MP1A	Mx	0	6
29	MP1B	Z	-.566	2
30	MP1B	Mx	.000245	2
31	MP1B	Z	-.566	6
32	MP1B	Mx	.000245	6
33	MP1C	Z	-.566	2
34	MP1C	Mx	-.000245	2
35	MP1C	Z	-.566	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP1C	Mx	-.000245	6
37	MP5A	Z	-.566	2
38	MP5A	Mx	0	2
39	MP5A	Z	-.566	6
40	MP5A	Mx	0	6
41	MP5B	Z	-.566	2
42	MP5B	Mx	.000245	2
43	MP5B	Z	-.566	6
44	MP5B	Mx	.000245	6
45	MP5C	Z	-.566	2
46	MP5C	Mx	-.000245	2
47	MP5C	Z	-.566	6
48	MP5C	Mx	-.000245	6
49	MP3A	Z	-2.478	2
50	MP3A	Mx	-.002	2
51	MP3A	Z	-2.478	6
52	MP3A	Mx	-.002	6
53	MP3B	Z	-2.478	2
54	MP3B	Mx	.002	2
55	MP3B	Z	-2.478	6
56	MP3B	Mx	.002	6
57	MP3C	Z	-2.478	2
58	MP3C	Mx	-.000247	2
59	MP3C	Z	-2.478	6
60	MP3C	Mx	-.000247	6
61	MP3A	Z	-2.478	2
62	MP3A	Mx	.002	2
63	MP3A	Z	-2.478	6
64	MP3A	Mx	.002	6
65	MP3B	Z	-2.478	2
66	MP3B	Mx	.000247	2
67	MP3B	Z	-2.478	6
68	MP3B	Mx	.000247	6
69	MP3C	Z	-2.478	2
70	MP3C	Mx	-.002	2
71	MP3C	Z	-2.478	6
72	MP3C	Mx	-.002	6
73	MP6A	Z	-3.447	2
74	MP6A	Mx	0	2
75	MP1A	Z	-1.077	0
76	MP1A	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	3.087	3
2	MP4A	Mx	-.002	3
3	MP4A	X	3.087	5
4	MP4A	Mx	-.002	5
5	MP4B	X	3.087	3
6	MP4B	Mx	.001	3
7	MP4B	X	3.087	5
8	MP4B	Mx	.001	5
9	MP4C	X	3.087	3
10	MP4C	Mx	.001	3
11	MP4C	X	3.087	5
12	MP4C	Mx	.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3A	X	8.048	4
14	MP3A	Mx	.004	4
15	MP3B	X	8.048	4
16	MP3B	Mx	-.002	4
17	MP3C	X	8.048	4
18	MP3C	Mx	-.002	4
19	MP4A	X	8.522	4
20	MP4A	Mx	.004	4
21	MP4B	X	8.522	4
22	MP4B	Mx	-.002	4
23	MP4C	X	8.522	4
24	MP4C	Mx	-.002	4
25	MP1A	X	.566	2
26	MP1A	Mx	-.000283	2
27	MP1A	X	.566	6
28	MP1A	Mx	-.000283	6
29	MP1B	X	.566	2
30	MP1B	Mx	.000141	2
31	MP1B	X	.566	6
32	MP1B	Mx	.000141	6
33	MP1C	X	.566	2
34	MP1C	Mx	.000141	2
35	MP1C	X	.566	6
36	MP1C	Mx	.000141	6
37	MP5A	X	.566	2
38	MP5A	Mx	-.000283	2
39	MP5A	X	.566	6
40	MP5A	Mx	-.000283	6
41	MP5B	X	.566	2
42	MP5B	Mx	.000141	2
43	MP5B	X	.566	6
44	MP5B	Mx	.000141	6
45	MP5C	X	.566	2
46	MP5C	Mx	.000141	2
47	MP5C	X	.566	6
48	MP5C	Mx	.000141	6
49	MP3A	X	2.478	2
50	MP3A	Mx	-.001	2
51	MP3A	X	2.478	6
52	MP3A	Mx	-.001	6
53	MP3B	X	2.478	2
54	MP3B	Mx	-.000811	2
55	MP3B	X	2.478	6
56	MP3B	Mx	-.000811	6
57	MP3C	X	2.478	2
58	MP3C	Mx	.002	2
59	MP3C	X	2.478	6
60	MP3C	Mx	.002	6
61	MP3A	X	2.478	2
62	MP3A	Mx	-.001	2
63	MP3A	X	2.478	6
64	MP3A	Mx	-.001	6
65	MP3B	X	2.478	2
66	MP3B	Mx	.002	2
67	MP3B	X	2.478	6
68	MP3B	Mx	.002	6
69	MP3C	X	2.478	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP3C	Mx	-.000811	2
71	MP3C	X	2.478	6
72	MP3C	Mx	-.000811	6
73	MP6A	X	3.447	2
74	MP6A	Mx	0	2
75	MP1A	X	1.077	0
76	MP1A	Mx	0	0

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.278	-9.278	0	%100
2	M2	Y	-15.241	-15.241	0	%100
3	FACE	Y	-8.786	-8.786	0	%100
4	M17	Y	-8.786	-8.786	0	%100
5	M8	Y	-8.786	-8.786	0	%100
6	M9	Y	-8.786	-8.786	0	%100
7	M9A	Y	-8.379	-8.379	0	%100
8	M10	Y	-8.379	-8.379	0	%100
9	M11	Y	-9.278	-9.278	0	%100
10	M12	Y	-9.278	-9.278	0	%100
11	M15	Y	-15.241	-15.241	0	%100
12	M17A	Y	-15.241	-15.241	0	%100
13	OVP	Y	-5.47	-5.47	0	%100
14	MP1A	Y	-4.785	-4.785	0	%100
15	MP6A	Y	-4.785	-4.785	0	%100
16	MP2A	Y	-4.785	-4.785	0	%100
17	MP3A	Y	-5.47	-5.47	0	%100
18	MP4A	Y	-4.785	-4.785	0	%100
19	MP5A	Y	-4.785	-4.785	0	%100
20	MP1C	Y	-4.785	-4.785	0	%100
21	MP6C	Y	-4.785	-4.785	0	%100
22	MP2C	Y	-4.785	-4.785	0	%100
23	MP3C	Y	-5.47	-5.47	0	%100
24	MP4C	Y	-4.785	-4.785	0	%100
25	MP5C	Y	-4.785	-4.785	0	%100
26	MP1B	Y	-4.785	-4.785	0	%100
27	MP6B	Y	-4.785	-4.785	0	%100
28	MP2B	Y	-4.785	-4.785	0	%100
29	MP3B	Y	-5.47	-5.47	0	%100
30	MP4B	Y	-4.785	-4.785	0	%100
31	MP5B	Y	-4.785	-4.785	0	%100
32	M80A	Y	-5.47	-5.47	0	%100
33	M81A	Y	-5.47	-5.47	0	%100
34	M88	Y	-7.342	-7.342	0	%100
35	M95A	Y	-7.342	-7.342	0	%100
36	M102	Y	-7.342	-7.342	0	%100
37	M91	Y	-10.775	-10.775	0	%100
38	M92	Y	-10.775	-10.775	0	%100
39	M93	Y	-10.775	-10.775	0	%100
40	M94A	Y	-7.342	-7.342	0	%100
41	M95B	Y	-7.342	-7.342	0	%100
42	M96A	Y	-7.342	-7.342	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.995	-1.995	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	-33.248	-33.248	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	-28.544	-28.544	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-8.312	-8.312	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-8.312	-8.312	0	%100
13	M9A	X	0	0	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-11.304	-11.304	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-11.304	-11.304	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	-.499	-.499	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	-.499	-.499	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	-11.47	-11.47	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-9.476	-9.476	0	%100
29	MP6A	X	0	0	0	%100
30	MP6A	Z	-9.476	-9.476	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-9.476	-9.476	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-11.47	-11.47	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-9.476	-9.476	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-9.476	-9.476	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	-9.476	-9.476	0	%100
41	MP6C	X	0	0	0	%100
42	MP6C	Z	-9.476	-9.476	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-9.476	-9.476	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-11.47	-11.47	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-9.476	-9.476	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	-9.476	-9.476	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-9.476	-9.476	0	%100
53	MP6B	X	0	0	0	%100
54	MP6B	Z	-9.476	-9.476	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	-9.476	-9.476	0	%100
57	MP3B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-11.47	-11.47	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	-9.476	-9.476	0	%100
61	MP5B	X	0	0	0	%100
62	MP5B	Z	-9.476	-9.476	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	-2.868	-2.868	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	-2.868	-2.868	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	-3.584	-3.584	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	-3.584	-3.584	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	-14.335	-14.335	0	%100
73	M91	X	0	0	0	%100
74	M91	Z	-11.82	-11.82	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	-16.67	-16.67	0	%100
77	M93	X	0	0	0	%100
78	M93	Z	-16.67	-16.67	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	-4.249	-4.249	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	-4.249	-4.249	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	-16.994	-16.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.884	1.884	0	%100
2	M1	Z	-3.263	-3.263	0	%100
3	M2	X	.748	.748	0	%100
4	M2	Z	-1.296	-1.296	0	%100
5	FACE	X	12.468	12.468	0	%100
6	FACE	Z	-21.595	-21.595	0	%100
7	M17	X	10.704	10.704	0	%100
8	M17	Z	-18.54	-18.54	0	%100
9	M8	X	12.468	12.468	0	%100
10	M8	Z	-21.595	-21.595	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	2.13	2.13	0	%100
14	M9A	Z	-3.689	-3.689	0	%100
15	M10	X	2.13	2.13	0	%100
16	M10	Z	-3.689	-3.689	0	%100
17	M11	X	1.884	1.884	0	%100
18	M11	Z	-3.263	-3.263	0	%100
19	M12	X	7.536	7.536	0	%100
20	M12	Z	-13.053	-13.053	0	%100
21	M15	X	.748	.748	0	%100
22	M15	Z	-1.296	-1.296	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	4.301	4.301	0	%100
26	OVP	Z	-7.45	-7.45	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	MP1A	X	4.738	4.738	0	%100
28	MP1A	Z	-8.206	-8.206	0	%100
29	MP6A	X	4.738	4.738	0	%100
30	MP6A	Z	-8.206	-8.206	0	%100
31	MP2A	X	4.738	4.738	0	%100
32	MP2A	Z	-8.206	-8.206	0	%100
33	MP3A	X	5.735	5.735	0	%100
34	MP3A	Z	-9.934	-9.934	0	%100
35	MP4A	X	4.738	4.738	0	%100
36	MP4A	Z	-8.206	-8.206	0	%100
37	MP5A	X	4.738	4.738	0	%100
38	MP5A	Z	-8.206	-8.206	0	%100
39	MP1C	X	4.738	4.738	0	%100
40	MP1C	Z	-8.206	-8.206	0	%100
41	MP6C	X	4.738	4.738	0	%100
42	MP6C	Z	-8.206	-8.206	0	%100
43	MP2C	X	4.738	4.738	0	%100
44	MP2C	Z	-8.206	-8.206	0	%100
45	MP3C	X	5.735	5.735	0	%100
46	MP3C	Z	-9.934	-9.934	0	%100
47	MP4C	X	4.738	4.738	0	%100
48	MP4C	Z	-8.206	-8.206	0	%100
49	MP5C	X	4.738	4.738	0	%100
50	MP5C	Z	-8.206	-8.206	0	%100
51	MP1B	X	4.738	4.738	0	%100
52	MP1B	Z	-8.206	-8.206	0	%100
53	MP6B	X	4.738	4.738	0	%100
54	MP6B	Z	-8.206	-8.206	0	%100
55	MP2B	X	4.738	4.738	0	%100
56	MP2B	Z	-8.206	-8.206	0	%100
57	MP3B	X	5.735	5.735	0	%100
58	MP3B	Z	-9.934	-9.934	0	%100
59	MP4B	X	4.738	4.738	0	%100
60	MP4B	Z	-8.206	-8.206	0	%100
61	MP5B	X	4.738	4.738	0	%100
62	MP5B	Z	-8.206	-8.206	0	%100
63	M80A	X	4.301	4.301	0	%100
64	M80A	Z	-7.45	-7.45	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	5.375	5.375	0	%100
68	M88	Z	-9.31	-9.31	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	5.376	5.376	0	%100
72	M102	Z	-9.311	-9.311	0	%100
73	M91	X	6.718	6.718	0	%100
74	M91	Z	-11.636	-11.636	0	%100
75	M92	X	6.718	6.718	0	%100
76	M92	Z	-11.636	-11.636	0	%100
77	M93	X	9.143	9.143	0	%100
78	M93	Z	-15.836	-15.836	0	%100
79	M94A	X	6.373	6.373	0	%100
80	M94A	Z	-11.038	-11.038	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	6.373	6.373	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	M96A	Z	-11.038	-11.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	9.79	9.79	0	%100
2	M1	Z	-5.652	-5.652	0	%100
3	M2	X	.432	.432	0	%100
4	M2	Z	-.249	-.249	0	%100
5	FACE	X	7.198	7.198	0	%100
6	FACE	Z	-4.156	-4.156	0	%100
7	M17	X	6.18	6.18	0	%100
8	M17	Z	-3.568	-3.568	0	%100
9	M8	X	28.793	28.793	0	%100
10	M8	Z	-16.624	-16.624	0	%100
11	M9	X	7.198	7.198	0	%100
12	M9	Z	-4.156	-4.156	0	%100
13	M9A	X	11.067	11.067	0	%100
14	M9A	Z	-6.39	-6.39	0	%100
15	M10	X	11.067	11.067	0	%100
16	M10	Z	-6.39	-6.39	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	9.79	9.79	0	%100
20	M12	Z	-5.652	-5.652	0	%100
21	M15	X	1.728	1.728	0	%100
22	M15	Z	-.997	-.997	0	%100
23	M17A	X	.432	.432	0	%100
24	M17A	Z	-.249	-.249	0	%100
25	OVP	X	2.483	2.483	0	%100
26	OVP	Z	-1.434	-1.434	0	%100
27	MP1A	X	8.206	8.206	0	%100
28	MP1A	Z	-4.738	-4.738	0	%100
29	MP6A	X	8.206	8.206	0	%100
30	MP6A	Z	-4.738	-4.738	0	%100
31	MP2A	X	8.206	8.206	0	%100
32	MP2A	Z	-4.738	-4.738	0	%100
33	MP3A	X	9.934	9.934	0	%100
34	MP3A	Z	-5.735	-5.735	0	%100
35	MP4A	X	8.206	8.206	0	%100
36	MP4A	Z	-4.738	-4.738	0	%100
37	MP5A	X	8.206	8.206	0	%100
38	MP5A	Z	-4.738	-4.738	0	%100
39	MP1C	X	8.206	8.206	0	%100
40	MP1C	Z	-4.738	-4.738	0	%100
41	MP6C	X	8.206	8.206	0	%100
42	MP6C	Z	-4.738	-4.738	0	%100
43	MP2C	X	8.206	8.206	0	%100
44	MP2C	Z	-4.738	-4.738	0	%100
45	MP3C	X	9.934	9.934	0	%100
46	MP3C	Z	-5.735	-5.735	0	%100
47	MP4C	X	8.206	8.206	0	%100
48	MP4C	Z	-4.738	-4.738	0	%100
49	MP5C	X	8.206	8.206	0	%100
50	MP5C	Z	-4.738	-4.738	0	%100
51	MP1B	X	8.206	8.206	0	%100
52	MP1B	Z	-4.738	-4.738	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	MP6B	X	8.206	8.206	0	%100
54	MP6B	Z	-4.738	-4.738	0	%100
55	MP2B	X	8.206	8.206	0	%100
56	MP2B	Z	-4.738	-4.738	0	%100
57	MP3B	X	9.934	9.934	0	%100
58	MP3B	Z	-5.735	-5.735	0	%100
59	MP4B	X	8.206	8.206	0	%100
60	MP4B	Z	-4.738	-4.738	0	%100
61	MP5B	X	8.206	8.206	0	%100
62	MP5B	Z	-4.738	-4.738	0	%100
63	M80A	X	9.934	9.934	0	%100
64	M80A	Z	-5.735	-5.735	0	%100
65	M81A	X	2.483	2.483	0	%100
66	M81A	Z	-1.434	-1.434	0	%100
67	M88	X	12.414	12.414	0	%100
68	M88	Z	-7.167	-7.167	0	%100
69	M95A	X	3.103	3.103	0	%100
70	M95A	Z	-1.792	-1.792	0	%100
71	M102	X	3.104	3.104	0	%100
72	M102	Z	-1.792	-1.792	0	%100
73	M91	X	14.436	14.436	0	%100
74	M91	Z	-8.335	-8.335	0	%100
75	M92	X	10.236	10.236	0	%100
76	M92	Z	-5.91	-5.91	0	%100
77	M93	X	14.436	14.436	0	%100
78	M93	Z	-8.335	-8.335	0	%100
79	M94A	X	14.718	14.718	0	%100
80	M94A	Z	-8.497	-8.497	0	%100
81	M95B	X	3.679	3.679	0	%100
82	M95B	Z	-2.124	-2.124	0	%100
83	M96A	X	3.679	3.679	0	%100
84	M96A	Z	-2.124	-2.124	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	15.072	15.072	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M8	X	24.936	24.936	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	24.936	24.936	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	17.039	17.039	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	17.039	17.039	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	3.768	3.768	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	3.768	3.768	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	1.496	1.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M15	Z	0	0	0	%100
23	M17A	X	1.496	1.496	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	0	0	0	%100
27	MP1A	X	9.476	9.476	0	%100
28	MP1A	Z	0	0	0	%100
29	MP6A	X	9.476	9.476	0	%100
30	MP6A	Z	0	0	0	%100
31	MP2A	X	9.476	9.476	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	11.47	11.47	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	9.476	9.476	0	%100
36	MP4A	Z	0	0	0	%100
37	MP5A	X	9.476	9.476	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1C	X	9.476	9.476	0	%100
40	MP1C	Z	0	0	0	%100
41	MP6C	X	9.476	9.476	0	%100
42	MP6C	Z	0	0	0	%100
43	MP2C	X	9.476	9.476	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	11.47	11.47	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	9.476	9.476	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	9.476	9.476	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	9.476	9.476	0	%100
52	MP1B	Z	0	0	0	%100
53	MP6B	X	9.476	9.476	0	%100
54	MP6B	Z	0	0	0	%100
55	MP2B	X	9.476	9.476	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	11.47	11.47	0	%100
58	MP3B	Z	0	0	0	%100
59	MP4B	X	9.476	9.476	0	%100
60	MP4B	Z	0	0	0	%100
61	MP5B	X	9.476	9.476	0	%100
62	MP5B	Z	0	0	0	%100
63	M80A	X	8.603	8.603	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	8.603	8.603	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	10.751	10.751	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	10.751	10.751	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	0	0	0	%100
73	M91	X	18.286	18.286	0	%100
74	M91	Z	0	0	0	%100
75	M92	X	13.436	13.436	0	%100
76	M92	Z	0	0	0	%100
77	M93	X	13.436	13.436	0	%100
78	M93	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	M94A	X	12.746	12.746	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	12.746	12.746	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	9.79	9.79	0	%100
2	M1	Z	5.652	5.652	0	%100
3	M2	X	.432	.432	0	%100
4	M2	Z	.249	.249	0	%100
5	FACE	X	7.198	7.198	0	%100
6	FACE	Z	4.156	4.156	0	%100
7	M17	X	6.18	6.18	0	%100
8	M17	Z	3.568	3.568	0	%100
9	M8	X	7.198	7.198	0	%100
10	M8	Z	4.156	4.156	0	%100
11	M9	X	28.793	28.793	0	%100
12	M9	Z	16.624	16.624	0	%100
13	M9A	X	11.067	11.067	0	%100
14	M9A	Z	6.39	6.39	0	%100
15	M10	X	11.067	11.067	0	%100
16	M10	Z	6.39	6.39	0	%100
17	M11	X	9.79	9.79	0	%100
18	M11	Z	5.652	5.652	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	.432	.432	0	%100
22	M15	Z	.249	.249	0	%100
23	M17A	X	1.728	1.728	0	%100
24	M17A	Z	.997	.997	0	%100
25	OVP	X	2.483	2.483	0	%100
26	OVP	Z	1.434	1.434	0	%100
27	MP1A	X	8.206	8.206	0	%100
28	MP1A	Z	4.738	4.738	0	%100
29	MP6A	X	8.206	8.206	0	%100
30	MP6A	Z	4.738	4.738	0	%100
31	MP2A	X	8.206	8.206	0	%100
32	MP2A	Z	4.738	4.738	0	%100
33	MP3A	X	9.934	9.934	0	%100
34	MP3A	Z	5.735	5.735	0	%100
35	MP4A	X	8.206	8.206	0	%100
36	MP4A	Z	4.738	4.738	0	%100
37	MP5A	X	8.206	8.206	0	%100
38	MP5A	Z	4.738	4.738	0	%100
39	MP1C	X	8.206	8.206	0	%100
40	MP1C	Z	4.738	4.738	0	%100
41	MP6C	X	8.206	8.206	0	%100
42	MP6C	Z	4.738	4.738	0	%100
43	MP2C	X	8.206	8.206	0	%100
44	MP2C	Z	4.738	4.738	0	%100
45	MP3C	X	9.934	9.934	0	%100
46	MP3C	Z	5.735	5.735	0	%100
47	MP4C	X	8.206	8.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	MP4C	Z	4.738	4.738	0	%100
49	MP5C	X	8.206	8.206	0	%100
50	MP5C	Z	4.738	4.738	0	%100
51	MP1B	X	8.206	8.206	0	%100
52	MP1B	Z	4.738	4.738	0	%100
53	MP6B	X	8.206	8.206	0	%100
54	MP6B	Z	4.738	4.738	0	%100
55	MP2B	X	8.206	8.206	0	%100
56	MP2B	Z	4.738	4.738	0	%100
57	MP3B	X	9.934	9.934	0	%100
58	MP3B	Z	5.735	5.735	0	%100
59	MP4B	X	8.206	8.206	0	%100
60	MP4B	Z	4.738	4.738	0	%100
61	MP5B	X	8.206	8.206	0	%100
62	MP5B	Z	4.738	4.738	0	%100
63	M80A	X	2.483	2.483	0	%100
64	M80A	Z	1.434	1.434	0	%100
65	M81A	X	9.934	9.934	0	%100
66	M81A	Z	5.735	5.735	0	%100
67	M88	X	3.104	3.104	0	%100
68	M88	Z	1.792	1.792	0	%100
69	M95A	X	12.414	12.414	0	%100
70	M95A	Z	7.167	7.167	0	%100
71	M102	X	3.103	3.103	0	%100
72	M102	Z	1.792	1.792	0	%100
73	M91	X	14.436	14.436	0	%100
74	M91	Z	8.335	8.335	0	%100
75	M92	X	14.436	14.436	0	%100
76	M92	Z	8.335	8.335	0	%100
77	M93	X	10.236	10.236	0	%100
78	M93	Z	5.91	5.91	0	%100
79	M94A	X	3.679	3.679	0	%100
80	M94A	Z	2.124	2.124	0	%100
81	M95B	X	14.718	14.718	0	%100
82	M95B	Z	8.497	8.497	0	%100
83	M96A	X	3.679	3.679	0	%100
84	M96A	Z	2.124	2.124	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.884	1.884	0	%100
2	M1	Z	3.263	3.263	0	%100
3	M2	X	.748	.748	0	%100
4	M2	Z	1.296	1.296	0	%100
5	FACE	X	12.468	12.468	0	%100
6	FACE	Z	21.595	21.595	0	%100
7	M17	X	10.704	10.704	0	%100
8	M17	Z	18.54	18.54	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	12.468	12.468	0	%100
12	M9	Z	21.595	21.595	0	%100
13	M9A	X	2.13	2.13	0	%100
14	M9A	Z	3.689	3.689	0	%100
15	M10	X	2.13	2.13	0	%100
16	M10	Z	3.689	3.689	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M11	X	7.536	7.536	0	%100
18	M11	Z	13.053	13.053	0	%100
19	M12	X	1.884	1.884	0	%100
20	M12	Z	3.263	3.263	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	.748	.748	0	%100
24	M17A	Z	1.296	1.296	0	%100
25	OVP	X	4.301	4.301	0	%100
26	OVP	Z	7.45	7.45	0	%100
27	MP1A	X	4.738	4.738	0	%100
28	MP1A	Z	8.206	8.206	0	%100
29	MP6A	X	4.738	4.738	0	%100
30	MP6A	Z	8.206	8.206	0	%100
31	MP2A	X	4.738	4.738	0	%100
32	MP2A	Z	8.206	8.206	0	%100
33	MP3A	X	5.735	5.735	0	%100
34	MP3A	Z	9.934	9.934	0	%100
35	MP4A	X	4.738	4.738	0	%100
36	MP4A	Z	8.206	8.206	0	%100
37	MP5A	X	4.738	4.738	0	%100
38	MP5A	Z	8.206	8.206	0	%100
39	MP1C	X	4.738	4.738	0	%100
40	MP1C	Z	8.206	8.206	0	%100
41	MP6C	X	4.738	4.738	0	%100
42	MP6C	Z	8.206	8.206	0	%100
43	MP2C	X	4.738	4.738	0	%100
44	MP2C	Z	8.206	8.206	0	%100
45	MP3C	X	5.735	5.735	0	%100
46	MP3C	Z	9.934	9.934	0	%100
47	MP4C	X	4.738	4.738	0	%100
48	MP4C	Z	8.206	8.206	0	%100
49	MP5C	X	4.738	4.738	0	%100
50	MP5C	Z	8.206	8.206	0	%100
51	MP1B	X	4.738	4.738	0	%100
52	MP1B	Z	8.206	8.206	0	%100
53	MP6B	X	4.738	4.738	0	%100
54	MP6B	Z	8.206	8.206	0	%100
55	MP2B	X	4.738	4.738	0	%100
56	MP2B	Z	8.206	8.206	0	%100
57	MP3B	X	5.735	5.735	0	%100
58	MP3B	Z	9.934	9.934	0	%100
59	MP4B	X	4.738	4.738	0	%100
60	MP4B	Z	8.206	8.206	0	%100
61	MP5B	X	4.738	4.738	0	%100
62	MP5B	Z	8.206	8.206	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	4.301	4.301	0	%100
66	M81A	Z	7.45	7.45	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	5.376	5.376	0	%100
70	M95A	Z	9.311	9.311	0	%100
71	M102	X	5.375	5.375	0	%100
72	M102	Z	9.31	9.31	0	%100
73	M91	X	6.718	6.718	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	M91	Z	11.636	11.636	0	%100
75	M92	X	9.143	9.143	0	%100
76	M92	Z	15.836	15.836	0	%100
77	M93	X	6.718	6.718	0	%100
78	M93	Z	11.636	11.636	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	6.373	6.373	0	%100
82	M95B	Z	11.038	11.038	0	%100
83	M96A	X	6.373	6.373	0	%100
84	M96A	Z	11.038	11.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.995	1.995	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	33.248	33.248	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	28.544	28.544	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	8.312	8.312	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	8.312	8.312	0	%100
13	M9A	X	0	0	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	11.304	11.304	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	11.304	11.304	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	.499	.499	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	.499	.499	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	11.47	11.47	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	9.476	9.476	0	%100
29	MP6A	X	0	0	0	%100
30	MP6A	Z	9.476	9.476	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	9.476	9.476	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	11.47	11.47	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	9.476	9.476	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	9.476	9.476	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	9.476	9.476	0	%100
41	MP6C	X	0	0	0	%100
42	MP6C	Z	9.476	9.476	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	MP2C	X	0	0	0	%100
44	MP2C	Z	9.476	9.476	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	11.47	11.47	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	9.476	9.476	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	9.476	9.476	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	9.476	9.476	0	%100
53	MP6B	X	0	0	0	%100
54	MP6B	Z	9.476	9.476	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	9.476	9.476	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	11.47	11.47	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	9.476	9.476	0	%100
61	MP5B	X	0	0	0	%100
62	MP5B	Z	9.476	9.476	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	2.868	2.868	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	2.868	2.868	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	3.584	3.584	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	3.584	3.584	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	14.335	14.335	0	%100
73	M91	X	0	0	0	%100
74	M91	Z	11.82	11.82	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	16.67	16.67	0	%100
77	M93	X	0	0	0	%100
78	M93	Z	16.67	16.67	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	4.249	4.249	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	4.249	4.249	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	16.994	16.994	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.884	-1.884	0	%100
2	M1	Z	3.263	3.263	0	%100
3	M2	X	-.748	-.748	0	%100
4	M2	Z	1.296	1.296	0	%100
5	FACE	X	-12.468	-12.468	0	%100
6	FACE	Z	21.595	21.595	0	%100
7	M17	X	-10.704	-10.704	0	%100
8	M17	Z	18.54	18.54	0	%100
9	M8	X	-12.468	-12.468	0	%100
10	M8	Z	21.595	21.595	0	%100
11	M9	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M9	Z	0	0	0	%100
13	M9A	X	-2.13	-2.13	0	%100
14	M9A	Z	3.689	3.689	0	%100
15	M10	X	-2.13	-2.13	0	%100
16	M10	Z	3.689	3.689	0	%100
17	M11	X	-1.884	-1.884	0	%100
18	M11	Z	3.263	3.263	0	%100
19	M12	X	-7.536	-7.536	0	%100
20	M12	Z	13.053	13.053	0	%100
21	M15	X	-.748	-.748	0	%100
22	M15	Z	1.296	1.296	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	-4.301	-4.301	0	%100
26	OVP	Z	7.45	7.45	0	%100
27	MP1A	X	-4.738	-4.738	0	%100
28	MP1A	Z	8.206	8.206	0	%100
29	MP6A	X	-4.738	-4.738	0	%100
30	MP6A	Z	8.206	8.206	0	%100
31	MP2A	X	-4.738	-4.738	0	%100
32	MP2A	Z	8.206	8.206	0	%100
33	MP3A	X	-5.735	-5.735	0	%100
34	MP3A	Z	9.934	9.934	0	%100
35	MP4A	X	-4.738	-4.738	0	%100
36	MP4A	Z	8.206	8.206	0	%100
37	MP5A	X	-4.738	-4.738	0	%100
38	MP5A	Z	8.206	8.206	0	%100
39	MP1C	X	-4.738	-4.738	0	%100
40	MP1C	Z	8.206	8.206	0	%100
41	MP6C	X	-4.738	-4.738	0	%100
42	MP6C	Z	8.206	8.206	0	%100
43	MP2C	X	-4.738	-4.738	0	%100
44	MP2C	Z	8.206	8.206	0	%100
45	MP3C	X	-5.735	-5.735	0	%100
46	MP3C	Z	9.934	9.934	0	%100
47	MP4C	X	-4.738	-4.738	0	%100
48	MP4C	Z	8.206	8.206	0	%100
49	MP5C	X	-4.738	-4.738	0	%100
50	MP5C	Z	8.206	8.206	0	%100
51	MP1B	X	-4.738	-4.738	0	%100
52	MP1B	Z	8.206	8.206	0	%100
53	MP6B	X	-4.738	-4.738	0	%100
54	MP6B	Z	8.206	8.206	0	%100
55	MP2B	X	-4.738	-4.738	0	%100
56	MP2B	Z	8.206	8.206	0	%100
57	MP3B	X	-5.735	-5.735	0	%100
58	MP3B	Z	9.934	9.934	0	%100
59	MP4B	X	-4.738	-4.738	0	%100
60	MP4B	Z	8.206	8.206	0	%100
61	MP5B	X	-4.738	-4.738	0	%100
62	MP5B	Z	8.206	8.206	0	%100
63	M80A	X	-4.301	-4.301	0	%100
64	M80A	Z	7.45	7.45	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	-5.375	-5.375	0	%100
68	M88	Z	9.31	9.31	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M95A	X	0	0	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	-5.376	-5.376	0	%100
72	M102	Z	9.311	9.311	0	%100
73	M91	X	-6.718	-6.718	0	%100
74	M91	Z	11.636	11.636	0	%100
75	M92	X	-6.718	-6.718	0	%100
76	M92	Z	11.636	11.636	0	%100
77	M93	X	-9.143	-9.143	0	%100
78	M93	Z	15.836	15.836	0	%100
79	M94A	X	-6.373	-6.373	0	%100
80	M94A	Z	11.038	11.038	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	-6.373	-6.373	0	%100
84	M96A	Z	11.038	11.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-9.79	-9.79	0	%100
2	M1	Z	5.652	5.652	0	%100
3	M2	X	-.432	-.432	0	%100
4	M2	Z	.249	.249	0	%100
5	FACE	X	-7.198	-7.198	0	%100
6	FACE	Z	4.156	4.156	0	%100
7	M17	X	-6.18	-6.18	0	%100
8	M17	Z	3.568	3.568	0	%100
9	M8	X	-28.793	-28.793	0	%100
10	M8	Z	16.624	16.624	0	%100
11	M9	X	-7.198	-7.198	0	%100
12	M9	Z	4.156	4.156	0	%100
13	M9A	X	-11.067	-11.067	0	%100
14	M9A	Z	6.39	6.39	0	%100
15	M10	X	-11.067	-11.067	0	%100
16	M10	Z	6.39	6.39	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-9.79	-9.79	0	%100
20	M12	Z	5.652	5.652	0	%100
21	M15	X	-1.728	-1.728	0	%100
22	M15	Z	.997	.997	0	%100
23	M17A	X	-.432	-.432	0	%100
24	M17A	Z	.249	.249	0	%100
25	OVP	X	-2.483	-2.483	0	%100
26	OVP	Z	1.434	1.434	0	%100
27	MP1A	X	-8.206	-8.206	0	%100
28	MP1A	Z	4.738	4.738	0	%100
29	MP6A	X	-8.206	-8.206	0	%100
30	MP6A	Z	4.738	4.738	0	%100
31	MP2A	X	-8.206	-8.206	0	%100
32	MP2A	Z	4.738	4.738	0	%100
33	MP3A	X	-9.934	-9.934	0	%100
34	MP3A	Z	5.735	5.735	0	%100
35	MP4A	X	-8.206	-8.206	0	%100
36	MP4A	Z	4.738	4.738	0	%100
37	MP5A	X	-8.206	-8.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	MP5A	Z	4.738	4.738	0	%100
39	MP1C	X	-8.206	-8.206	0	%100
40	MP1C	Z	4.738	4.738	0	%100
41	MP6C	X	-8.206	-8.206	0	%100
42	MP6C	Z	4.738	4.738	0	%100
43	MP2C	X	-8.206	-8.206	0	%100
44	MP2C	Z	4.738	4.738	0	%100
45	MP3C	X	-9.934	-9.934	0	%100
46	MP3C	Z	5.735	5.735	0	%100
47	MP4C	X	-8.206	-8.206	0	%100
48	MP4C	Z	4.738	4.738	0	%100
49	MP5C	X	-8.206	-8.206	0	%100
50	MP5C	Z	4.738	4.738	0	%100
51	MP1B	X	-8.206	-8.206	0	%100
52	MP1B	Z	4.738	4.738	0	%100
53	MP6B	X	-8.206	-8.206	0	%100
54	MP6B	Z	4.738	4.738	0	%100
55	MP2B	X	-8.206	-8.206	0	%100
56	MP2B	Z	4.738	4.738	0	%100
57	MP3B	X	-9.934	-9.934	0	%100
58	MP3B	Z	5.735	5.735	0	%100
59	MP4B	X	-8.206	-8.206	0	%100
60	MP4B	Z	4.738	4.738	0	%100
61	MP5B	X	-8.206	-8.206	0	%100
62	MP5B	Z	4.738	4.738	0	%100
63	M80A	X	-9.934	-9.934	0	%100
64	M80A	Z	5.735	5.735	0	%100
65	M81A	X	-2.483	-2.483	0	%100
66	M81A	Z	1.434	1.434	0	%100
67	M88	X	-12.414	-12.414	0	%100
68	M88	Z	7.167	7.167	0	%100
69	M95A	X	-3.103	-3.103	0	%100
70	M95A	Z	1.792	1.792	0	%100
71	M102	X	-3.104	-3.104	0	%100
72	M102	Z	1.792	1.792	0	%100
73	M91	X	-14.436	-14.436	0	%100
74	M91	Z	8.335	8.335	0	%100
75	M92	X	-10.236	-10.236	0	%100
76	M92	Z	5.91	5.91	0	%100
77	M93	X	-14.436	-14.436	0	%100
78	M93	Z	8.335	8.335	0	%100
79	M94A	X	-14.718	-14.718	0	%100
80	M94A	Z	8.497	8.497	0	%100
81	M95B	X	-3.679	-3.679	0	%100
82	M95B	Z	2.124	2.124	0	%100
83	M96A	X	-3.679	-3.679	0	%100
84	M96A	Z	2.124	2.124	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-15.072	-15.072	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M8	X	-24.936	-24.936	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-24.936	-24.936	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	-17.039	-17.039	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	-17.039	-17.039	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-3.768	-3.768	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-3.768	-3.768	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	-1.496	-1.496	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	-1.496	-1.496	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	0	0	0	%100
27	MP1A	X	-9.476	-9.476	0	%100
28	MP1A	Z	0	0	0	%100
29	MP6A	X	-9.476	-9.476	0	%100
30	MP6A	Z	0	0	0	%100
31	MP2A	X	-9.476	-9.476	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-11.47	-11.47	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-9.476	-9.476	0	%100
36	MP4A	Z	0	0	0	%100
37	MP5A	X	-9.476	-9.476	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1C	X	-9.476	-9.476	0	%100
40	MP1C	Z	0	0	0	%100
41	MP6C	X	-9.476	-9.476	0	%100
42	MP6C	Z	0	0	0	%100
43	MP2C	X	-9.476	-9.476	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-11.47	-11.47	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-9.476	-9.476	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	-9.476	-9.476	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	-9.476	-9.476	0	%100
52	MP1B	Z	0	0	0	%100
53	MP6B	X	-9.476	-9.476	0	%100
54	MP6B	Z	0	0	0	%100
55	MP2B	X	-9.476	-9.476	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	-11.47	-11.47	0	%100
58	MP3B	Z	0	0	0	%100
59	MP4B	X	-9.476	-9.476	0	%100
60	MP4B	Z	0	0	0	%100
61	MP5B	X	-9.476	-9.476	0	%100
62	MP5B	Z	0	0	0	%100
63	M80A	X	-8.603	-8.603	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	M80A	Z	0	0	0	%100
65	M81A	X	-8.603	-8.603	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	-10.751	-10.751	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	-10.751	-10.751	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	0	0	0	%100
73	M91	X	-18.286	-18.286	0	%100
74	M91	Z	0	0	0	%100
75	M92	X	-13.436	-13.436	0	%100
76	M92	Z	0	0	0	%100
77	M93	X	-13.436	-13.436	0	%100
78	M93	Z	0	0	0	%100
79	M94A	X	-12.746	-12.746	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	-12.746	-12.746	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-9.79	-9.79	0	%100
2	M1	Z	-5.652	-5.652	0	%100
3	M2	X	-.432	-.432	0	%100
4	M2	Z	-.249	-.249	0	%100
5	FACE	X	-7.198	-7.198	0	%100
6	FACE	Z	-4.156	-4.156	0	%100
7	M17	X	-6.18	-6.18	0	%100
8	M17	Z	-3.568	-3.568	0	%100
9	M8	X	-7.198	-7.198	0	%100
10	M8	Z	-4.156	-4.156	0	%100
11	M9	X	-28.793	-28.793	0	%100
12	M9	Z	-16.624	-16.624	0	%100
13	M9A	X	-11.067	-11.067	0	%100
14	M9A	Z	-6.39	-6.39	0	%100
15	M10	X	-11.067	-11.067	0	%100
16	M10	Z	-6.39	-6.39	0	%100
17	M11	X	-9.79	-9.79	0	%100
18	M11	Z	-5.652	-5.652	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	-.432	-.432	0	%100
22	M15	Z	-.249	-.249	0	%100
23	M17A	X	-1.728	-1.728	0	%100
24	M17A	Z	-.997	-.997	0	%100
25	OVP	X	-2.483	-2.483	0	%100
26	OVP	Z	-1.434	-1.434	0	%100
27	MP1A	X	-8.206	-8.206	0	%100
28	MP1A	Z	-4.738	-4.738	0	%100
29	MP6A	X	-8.206	-8.206	0	%100
30	MP6A	Z	-4.738	-4.738	0	%100
31	MP2A	X	-8.206	-8.206	0	%100
32	MP2A	Z	-4.738	-4.738	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP3A	X	-9.934	-9.934	0	%100
34	MP3A	Z	-5.735	-5.735	0	%100
35	MP4A	X	-8.206	-8.206	0	%100
36	MP4A	Z	-4.738	-4.738	0	%100
37	MP5A	X	-8.206	-8.206	0	%100
38	MP5A	Z	-4.738	-4.738	0	%100
39	MP1C	X	-8.206	-8.206	0	%100
40	MP1C	Z	-4.738	-4.738	0	%100
41	MP6C	X	-8.206	-8.206	0	%100
42	MP6C	Z	-4.738	-4.738	0	%100
43	MP2C	X	-8.206	-8.206	0	%100
44	MP2C	Z	-4.738	-4.738	0	%100
45	MP3C	X	-9.934	-9.934	0	%100
46	MP3C	Z	-5.735	-5.735	0	%100
47	MP4C	X	-8.206	-8.206	0	%100
48	MP4C	Z	-4.738	-4.738	0	%100
49	MP5C	X	-8.206	-8.206	0	%100
50	MP5C	Z	-4.738	-4.738	0	%100
51	MP1B	X	-8.206	-8.206	0	%100
52	MP1B	Z	-4.738	-4.738	0	%100
53	MP6B	X	-8.206	-8.206	0	%100
54	MP6B	Z	-4.738	-4.738	0	%100
55	MP2B	X	-8.206	-8.206	0	%100
56	MP2B	Z	-4.738	-4.738	0	%100
57	MP3B	X	-9.934	-9.934	0	%100
58	MP3B	Z	-5.735	-5.735	0	%100
59	MP4B	X	-8.206	-8.206	0	%100
60	MP4B	Z	-4.738	-4.738	0	%100
61	MP5B	X	-8.206	-8.206	0	%100
62	MP5B	Z	-4.738	-4.738	0	%100
63	M80A	X	-2.483	-2.483	0	%100
64	M80A	Z	-1.434	-1.434	0	%100
65	M81A	X	-9.934	-9.934	0	%100
66	M81A	Z	-5.735	-5.735	0	%100
67	M88	X	-3.104	-3.104	0	%100
68	M88	Z	-1.792	-1.792	0	%100
69	M95A	X	-12.414	-12.414	0	%100
70	M95A	Z	-7.167	-7.167	0	%100
71	M102	X	-3.103	-3.103	0	%100
72	M102	Z	-1.792	-1.792	0	%100
73	M91	X	-14.436	-14.436	0	%100
74	M91	Z	-8.335	-8.335	0	%100
75	M92	X	-14.436	-14.436	0	%100
76	M92	Z	-8.335	-8.335	0	%100
77	M93	X	-10.236	-10.236	0	%100
78	M93	Z	-5.91	-5.91	0	%100
79	M94A	X	-3.679	-3.679	0	%100
80	M94A	Z	-2.124	-2.124	0	%100
81	M95B	X	-14.718	-14.718	0	%100
82	M95B	Z	-8.497	-8.497	0	%100
83	M96A	X	-3.679	-3.679	0	%100
84	M96A	Z	-2.124	-2.124	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.884	-1.884	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	-3.263	-3.263	0	%100
3	M2	X	-.748	-.748	0	%100
4	M2	Z	-1.296	-1.296	0	%100
5	FACE	X	-12.468	-12.468	0	%100
6	FACE	Z	-21.595	-21.595	0	%100
7	M17	X	-10.704	-10.704	0	%100
8	M17	Z	-18.54	-18.54	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-12.468	-12.468	0	%100
12	M9	Z	-21.595	-21.595	0	%100
13	M9A	X	-2.13	-2.13	0	%100
14	M9A	Z	-3.689	-3.689	0	%100
15	M10	X	-2.13	-2.13	0	%100
16	M10	Z	-3.689	-3.689	0	%100
17	M11	X	-7.536	-7.536	0	%100
18	M11	Z	-13.053	-13.053	0	%100
19	M12	X	-1.884	-1.884	0	%100
20	M12	Z	-3.263	-3.263	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	-.748	-.748	0	%100
24	M17A	Z	-1.296	-1.296	0	%100
25	OVP	X	-4.301	-4.301	0	%100
26	OVP	Z	-7.45	-7.45	0	%100
27	MP1A	X	-4.738	-4.738	0	%100
28	MP1A	Z	-8.206	-8.206	0	%100
29	MP6A	X	-4.738	-4.738	0	%100
30	MP6A	Z	-8.206	-8.206	0	%100
31	MP2A	X	-4.738	-4.738	0	%100
32	MP2A	Z	-8.206	-8.206	0	%100
33	MP3A	X	-5.735	-5.735	0	%100
34	MP3A	Z	-9.934	-9.934	0	%100
35	MP4A	X	-4.738	-4.738	0	%100
36	MP4A	Z	-8.206	-8.206	0	%100
37	MP5A	X	-4.738	-4.738	0	%100
38	MP5A	Z	-8.206	-8.206	0	%100
39	MP1C	X	-4.738	-4.738	0	%100
40	MP1C	Z	-8.206	-8.206	0	%100
41	MP6C	X	-4.738	-4.738	0	%100
42	MP6C	Z	-8.206	-8.206	0	%100
43	MP2C	X	-4.738	-4.738	0	%100
44	MP2C	Z	-8.206	-8.206	0	%100
45	MP3C	X	-5.735	-5.735	0	%100
46	MP3C	Z	-9.934	-9.934	0	%100
47	MP4C	X	-4.738	-4.738	0	%100
48	MP4C	Z	-8.206	-8.206	0	%100
49	MP5C	X	-4.738	-4.738	0	%100
50	MP5C	Z	-8.206	-8.206	0	%100
51	MP1B	X	-4.738	-4.738	0	%100
52	MP1B	Z	-8.206	-8.206	0	%100
53	MP6B	X	-4.738	-4.738	0	%100
54	MP6B	Z	-8.206	-8.206	0	%100
55	MP2B	X	-4.738	-4.738	0	%100
56	MP2B	Z	-8.206	-8.206	0	%100
57	MP3B	X	-5.735	-5.735	0	%100
58	MP3B	Z	-9.934	-9.934	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP4B	X	-4.738	-4.738	0	%100
60	MP4B	Z	-8.206	-8.206	0	%100
61	MP5B	X	-4.738	-4.738	0	%100
62	MP5B	Z	-8.206	-8.206	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	-4.301	-4.301	0	%100
66	M81A	Z	-7.45	-7.45	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	-5.376	-5.376	0	%100
70	M95A	Z	-9.311	-9.311	0	%100
71	M102	X	-5.375	-5.375	0	%100
72	M102	Z	-9.31	-9.31	0	%100
73	M91	X	-6.718	-6.718	0	%100
74	M91	Z	-11.636	-11.636	0	%100
75	M92	X	-9.143	-9.143	0	%100
76	M92	Z	-15.836	-15.836	0	%100
77	M93	X	-6.718	-6.718	0	%100
78	M93	Z	-11.636	-11.636	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	-6.373	-6.373	0	%100
82	M95B	Z	-11.038	-11.038	0	%100
83	M96A	X	-6.373	-6.373	0	%100
84	M96A	Z	-11.038	-11.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.306	-1.306	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	-7.324	-7.324	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	-6.508	-6.508	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-1.831	-1.831	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-1.831	-1.831	0	%100
13	M9A	X	0	0	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-3.127	-3.127	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-3.127	-3.127	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	-.326	-.326	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	-.326	-.326	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	-3.544	-3.544	0	%100
27	MP1A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	MP1A	Z	-3.197	-3.197	0	%100
29	MP6A	X	0	0	0	%100
30	MP6A	Z	-3.197	-3.197	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-3.197	-3.197	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-3.544	-3.544	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-3.197	-3.197	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-3.197	-3.197	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	-3.197	-3.197	0	%100
41	MP6C	X	0	0	0	%100
42	MP6C	Z	-3.197	-3.197	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-3.197	-3.197	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-3.544	-3.544	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-3.197	-3.197	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	-3.197	-3.197	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-3.197	-3.197	0	%100
53	MP6B	X	0	0	0	%100
54	MP6B	Z	-3.197	-3.197	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	-3.197	-3.197	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	-3.544	-3.544	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	-3.197	-3.197	0	%100
61	MP5B	X	0	0	0	%100
62	MP5B	Z	-3.197	-3.197	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	-.886	-.886	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	-.886	-.886	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	-.909	-.909	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	-.909	-.909	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	-3.635	-3.635	0	%100
73	M91	X	0	0	0	%100
74	M91	Z	-2.611	-2.611	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	-4.198	-4.198	0	%100
77	M93	X	0	0	0	%100
78	M93	Z	-4.198	-4.198	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	-1.101	-1.101	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	-1.101	-1.101	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	-4.404	-4.404	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.521	.521	0	%100
2	M1	Z	-.903	-.903	0	%100
3	M2	X	.49	.49	0	%100
4	M2	Z	-.848	-.848	0	%100
5	FACE	X	2.747	2.747	0	%100
6	FACE	Z	-4.757	-4.757	0	%100
7	M17	X	2.44	2.44	0	%100
8	M17	Z	-4.227	-4.227	0	%100
9	M8	X	2.747	2.747	0	%100
10	M8	Z	-4.757	-4.757	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	.564	.564	0	%100
14	M9A	Z	-.977	-.977	0	%100
15	M10	X	.564	.564	0	%100
16	M10	Z	-.977	-.977	0	%100
17	M11	X	.521	.521	0	%100
18	M11	Z	-.903	-.903	0	%100
19	M12	X	2.085	2.085	0	%100
20	M12	Z	-3.61	-3.61	0	%100
21	M15	X	.49	.49	0	%100
22	M15	Z	-.848	-.848	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	1.329	1.329	0	%100
26	OVP	Z	-2.302	-2.302	0	%100
27	MP1A	X	1.599	1.599	0	%100
28	MP1A	Z	-2.769	-2.769	0	%100
29	MP6A	X	1.599	1.599	0	%100
30	MP6A	Z	-2.769	-2.769	0	%100
31	MP2A	X	1.599	1.599	0	%100
32	MP2A	Z	-2.769	-2.769	0	%100
33	MP3A	X	1.772	1.772	0	%100
34	MP3A	Z	-3.069	-3.069	0	%100
35	MP4A	X	1.599	1.599	0	%100
36	MP4A	Z	-2.769	-2.769	0	%100
37	MP5A	X	1.599	1.599	0	%100
38	MP5A	Z	-2.769	-2.769	0	%100
39	MP1C	X	1.599	1.599	0	%100
40	MP1C	Z	-2.769	-2.769	0	%100
41	MP6C	X	1.599	1.599	0	%100
42	MP6C	Z	-2.769	-2.769	0	%100
43	MP2C	X	1.599	1.599	0	%100
44	MP2C	Z	-2.769	-2.769	0	%100
45	MP3C	X	1.772	1.772	0	%100
46	MP3C	Z	-3.069	-3.069	0	%100
47	MP4C	X	1.599	1.599	0	%100
48	MP4C	Z	-2.769	-2.769	0	%100
49	MP5C	X	1.599	1.599	0	%100
50	MP5C	Z	-2.769	-2.769	0	%100
51	MP1B	X	1.599	1.599	0	%100
52	MP1B	Z	-2.769	-2.769	0	%100
53	MP6B	X	1.599	1.599	0	%100
54	MP6B	Z	-2.769	-2.769	0	%100
55	MP2B	X	1.599	1.599	0	%100
56	MP2B	Z	-2.769	-2.769	0	%100
57	MP3B	X	1.772	1.772	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-3.069	-3.069	0	%100
59	MP4B	X	1.599	1.599	0	%100
60	MP4B	Z	-2.769	-2.769	0	%100
61	MP5B	X	1.599	1.599	0	%100
62	MP5B	Z	-2.769	-2.769	0	%100
63	M80A	X	1.329	1.329	0	%100
64	M80A	Z	-2.302	-2.302	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	1.363	1.363	0	%100
68	M88	Z	-2.361	-2.361	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	1.363	1.363	0	%100
72	M102	Z	-2.361	-2.361	0	%100
73	M91	X	1.57	1.57	0	%100
74	M91	Z	-2.719	-2.719	0	%100
75	M92	X	1.57	1.57	0	%100
76	M92	Z	-2.719	-2.719	0	%100
77	M93	X	2.364	2.364	0	%100
78	M93	Z	-4.094	-4.094	0	%100
79	M94A	X	1.652	1.652	0	%100
80	M94A	Z	-2.861	-2.861	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	1.652	1.652	0	%100
84	M96A	Z	-2.861	-2.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.708	2.708	0	%100
2	M1	Z	-1.563	-1.563	0	%100
3	M2	X	.283	.283	0	%100
4	M2	Z	-.163	-.163	0	%100
5	FACE	X	1.586	1.586	0	%100
6	FACE	Z	-.916	-.916	0	%100
7	M17	X	1.409	1.409	0	%100
8	M17	Z	-.813	-.813	0	%100
9	M8	X	6.343	6.343	0	%100
10	M8	Z	-3.662	-3.662	0	%100
11	M9	X	1.586	1.586	0	%100
12	M9	Z	-.916	-.916	0	%100
13	M9A	X	2.93	2.93	0	%100
14	M9A	Z	-1.691	-1.691	0	%100
15	M10	X	2.93	2.93	0	%100
16	M10	Z	-1.691	-1.691	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	2.708	2.708	0	%100
20	M12	Z	-1.563	-1.563	0	%100
21	M15	X	1.131	1.131	0	%100
22	M15	Z	-.653	-.653	0	%100
23	M17A	X	.283	.283	0	%100
24	M17A	Z	-.163	-.163	0	%100
25	OVP	X	.767	.767	0	%100
26	OVP	Z	-.443	-.443	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	MP1A	X	2.769	2.769	0	%100
28	MP1A	Z	-1.599	-1.599	0	%100
29	MP6A	X	2.769	2.769	0	%100
30	MP6A	Z	-1.599	-1.599	0	%100
31	MP2A	X	2.769	2.769	0	%100
32	MP2A	Z	-1.599	-1.599	0	%100
33	MP3A	X	3.069	3.069	0	%100
34	MP3A	Z	-1.772	-1.772	0	%100
35	MP4A	X	2.769	2.769	0	%100
36	MP4A	Z	-1.599	-1.599	0	%100
37	MP5A	X	2.769	2.769	0	%100
38	MP5A	Z	-1.599	-1.599	0	%100
39	MP1C	X	2.769	2.769	0	%100
40	MP1C	Z	-1.599	-1.599	0	%100
41	MP6C	X	2.769	2.769	0	%100
42	MP6C	Z	-1.599	-1.599	0	%100
43	MP2C	X	2.769	2.769	0	%100
44	MP2C	Z	-1.599	-1.599	0	%100
45	MP3C	X	3.069	3.069	0	%100
46	MP3C	Z	-1.772	-1.772	0	%100
47	MP4C	X	2.769	2.769	0	%100
48	MP4C	Z	-1.599	-1.599	0	%100
49	MP5C	X	2.769	2.769	0	%100
50	MP5C	Z	-1.599	-1.599	0	%100
51	MP1B	X	2.769	2.769	0	%100
52	MP1B	Z	-1.599	-1.599	0	%100
53	MP6B	X	2.769	2.769	0	%100
54	MP6B	Z	-1.599	-1.599	0	%100
55	MP2B	X	2.769	2.769	0	%100
56	MP2B	Z	-1.599	-1.599	0	%100
57	MP3B	X	3.069	3.069	0	%100
58	MP3B	Z	-1.772	-1.772	0	%100
59	MP4B	X	2.769	2.769	0	%100
60	MP4B	Z	-1.599	-1.599	0	%100
61	MP5B	X	2.769	2.769	0	%100
62	MP5B	Z	-1.599	-1.599	0	%100
63	M80A	X	3.069	3.069	0	%100
64	M80A	Z	-1.772	-1.772	0	%100
65	M81A	X	.767	.767	0	%100
66	M81A	Z	-.443	-.443	0	%100
67	M88	X	3.148	3.148	0	%100
68	M88	Z	-1.817	-1.817	0	%100
69	M95A	X	.787	.787	0	%100
70	M95A	Z	-.454	-.454	0	%100
71	M102	X	.787	.787	0	%100
72	M102	Z	-.454	-.454	0	%100
73	M91	X	3.636	3.636	0	%100
74	M91	Z	-2.099	-2.099	0	%100
75	M92	X	2.261	2.261	0	%100
76	M92	Z	-1.305	-1.305	0	%100
77	M93	X	3.636	3.636	0	%100
78	M93	Z	-2.099	-2.099	0	%100
79	M94A	X	3.814	3.814	0	%100
80	M94A	Z	-2.202	-2.202	0	%100
81	M95B	X	.954	.954	0	%100
82	M95B	Z	-.551	-.551	0	%100
83	M96A	X	.954	.954	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	M96A	Z	-.551	-.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	4.169	4.169	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M8	X	5.493	5.493	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	5.493	5.493	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	4.511	4.511	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	4.511	4.511	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	1.042	1.042	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	1.042	1.042	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	.979	.979	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	.979	.979	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	0	0	0	%100
27	MP1A	X	3.197	3.197	0	%100
28	MP1A	Z	0	0	0	%100
29	MP6A	X	3.197	3.197	0	%100
30	MP6A	Z	0	0	0	%100
31	MP2A	X	3.197	3.197	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	3.544	3.544	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	3.197	3.197	0	%100
36	MP4A	Z	0	0	0	%100
37	MP5A	X	3.197	3.197	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1C	X	3.197	3.197	0	%100
40	MP1C	Z	0	0	0	%100
41	MP6C	X	3.197	3.197	0	%100
42	MP6C	Z	0	0	0	%100
43	MP2C	X	3.197	3.197	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	3.544	3.544	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	3.197	3.197	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	3.197	3.197	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	3.197	3.197	0	%100
52	MP1B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	MP6B	X	3.197	3.197	0	%100
54	MP6B	Z	0	0	0	%100
55	MP2B	X	3.197	3.197	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	3.544	3.544	0	%100
58	MP3B	Z	0	0	0	%100
59	MP4B	X	3.197	3.197	0	%100
60	MP4B	Z	0	0	0	%100
61	MP5B	X	3.197	3.197	0	%100
62	MP5B	Z	0	0	0	%100
63	M80A	X	2.658	2.658	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	2.658	2.658	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	2.726	2.726	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	2.726	2.726	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	0	0	0	%100
73	M91	X	4.727	4.727	0	%100
74	M91	Z	0	0	0	%100
75	M92	X	3.14	3.14	0	%100
76	M92	Z	0	0	0	%100
77	M93	X	3.14	3.14	0	%100
78	M93	Z	0	0	0	%100
79	M94A	X	3.303	3.303	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	3.303	3.303	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.708	2.708	0	%100
2	M1	Z	1.563	1.563	0	%100
3	M2	X	.283	.283	0	%100
4	M2	Z	.163	.163	0	%100
5	FACE	X	1.586	1.586	0	%100
6	FACE	Z	.916	.916	0	%100
7	M17	X	1.409	1.409	0	%100
8	M17	Z	.813	.813	0	%100
9	M8	X	1.586	1.586	0	%100
10	M8	Z	.916	.916	0	%100
11	M9	X	6.343	6.343	0	%100
12	M9	Z	3.662	3.662	0	%100
13	M9A	X	2.93	2.93	0	%100
14	M9A	Z	1.691	1.691	0	%100
15	M10	X	2.93	2.93	0	%100
16	M10	Z	1.691	1.691	0	%100
17	M11	X	2.708	2.708	0	%100
18	M11	Z	1.563	1.563	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	.283	.283	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M15	Z	.163	.163	0	%100
23	M17A	X	1.131	1.131	0	%100
24	M17A	Z	.653	.653	0	%100
25	OVP	X	.767	.767	0	%100
26	OVP	Z	.443	.443	0	%100
27	MP1A	X	2.769	2.769	0	%100
28	MP1A	Z	1.599	1.599	0	%100
29	MP6A	X	2.769	2.769	0	%100
30	MP6A	Z	1.599	1.599	0	%100
31	MP2A	X	2.769	2.769	0	%100
32	MP2A	Z	1.599	1.599	0	%100
33	MP3A	X	3.069	3.069	0	%100
34	MP3A	Z	1.772	1.772	0	%100
35	MP4A	X	2.769	2.769	0	%100
36	MP4A	Z	1.599	1.599	0	%100
37	MP5A	X	2.769	2.769	0	%100
38	MP5A	Z	1.599	1.599	0	%100
39	MP1C	X	2.769	2.769	0	%100
40	MP1C	Z	1.599	1.599	0	%100
41	MP6C	X	2.769	2.769	0	%100
42	MP6C	Z	1.599	1.599	0	%100
43	MP2C	X	2.769	2.769	0	%100
44	MP2C	Z	1.599	1.599	0	%100
45	MP3C	X	3.069	3.069	0	%100
46	MP3C	Z	1.772	1.772	0	%100
47	MP4C	X	2.769	2.769	0	%100
48	MP4C	Z	1.599	1.599	0	%100
49	MP5C	X	2.769	2.769	0	%100
50	MP5C	Z	1.599	1.599	0	%100
51	MP1B	X	2.769	2.769	0	%100
52	MP1B	Z	1.599	1.599	0	%100
53	MP6B	X	2.769	2.769	0	%100
54	MP6B	Z	1.599	1.599	0	%100
55	MP2B	X	2.769	2.769	0	%100
56	MP2B	Z	1.599	1.599	0	%100
57	MP3B	X	3.069	3.069	0	%100
58	MP3B	Z	1.772	1.772	0	%100
59	MP4B	X	2.769	2.769	0	%100
60	MP4B	Z	1.599	1.599	0	%100
61	MP5B	X	2.769	2.769	0	%100
62	MP5B	Z	1.599	1.599	0	%100
63	M80A	X	.767	.767	0	%100
64	M80A	Z	.443	.443	0	%100
65	M81A	X	3.069	3.069	0	%100
66	M81A	Z	1.772	1.772	0	%100
67	M88	X	.787	.787	0	%100
68	M88	Z	.454	.454	0	%100
69	M95A	X	3.148	3.148	0	%100
70	M95A	Z	1.817	1.817	0	%100
71	M102	X	.787	.787	0	%100
72	M102	Z	.454	.454	0	%100
73	M91	X	3.636	3.636	0	%100
74	M91	Z	2.099	2.099	0	%100
75	M92	X	3.636	3.636	0	%100
76	M92	Z	2.099	2.099	0	%100
77	M93	X	2.261	2.261	0	%100
78	M93	Z	1.305	1.305	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	M94A	X	.954	.954	0	%100
80	M94A	Z	.551	.551	0	%100
81	M95B	X	3.814	3.814	0	%100
82	M95B	Z	2.202	2.202	0	%100
83	M96A	X	.954	.954	0	%100
84	M96A	Z	.551	.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.521	.521	0	%100
2	M1	Z	.903	.903	0	%100
3	M2	X	.49	.49	0	%100
4	M2	Z	.848	.848	0	%100
5	FACE	X	2.747	2.747	0	%100
6	FACE	Z	4.757	4.757	0	%100
7	M17	X	2.44	2.44	0	%100
8	M17	Z	4.227	4.227	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	2.747	2.747	0	%100
12	M9	Z	4.757	4.757	0	%100
13	M9A	X	.564	.564	0	%100
14	M9A	Z	.977	.977	0	%100
15	M10	X	.564	.564	0	%100
16	M10	Z	.977	.977	0	%100
17	M11	X	2.085	2.085	0	%100
18	M11	Z	3.61	3.61	0	%100
19	M12	X	.521	.521	0	%100
20	M12	Z	.903	.903	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	.49	.49	0	%100
24	M17A	Z	.848	.848	0	%100
25	OVP	X	1.329	1.329	0	%100
26	OVP	Z	2.302	2.302	0	%100
27	MP1A	X	1.599	1.599	0	%100
28	MP1A	Z	2.769	2.769	0	%100
29	MP6A	X	1.599	1.599	0	%100
30	MP6A	Z	2.769	2.769	0	%100
31	MP2A	X	1.599	1.599	0	%100
32	MP2A	Z	2.769	2.769	0	%100
33	MP3A	X	1.772	1.772	0	%100
34	MP3A	Z	3.069	3.069	0	%100
35	MP4A	X	1.599	1.599	0	%100
36	MP4A	Z	2.769	2.769	0	%100
37	MP5A	X	1.599	1.599	0	%100
38	MP5A	Z	2.769	2.769	0	%100
39	MP1C	X	1.599	1.599	0	%100
40	MP1C	Z	2.769	2.769	0	%100
41	MP6C	X	1.599	1.599	0	%100
42	MP6C	Z	2.769	2.769	0	%100
43	MP2C	X	1.599	1.599	0	%100
44	MP2C	Z	2.769	2.769	0	%100
45	MP3C	X	1.772	1.772	0	%100
46	MP3C	Z	3.069	3.069	0	%100
47	MP4C	X	1.599	1.599	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	MP4C	Z	2.769	2.769	0	%100
49	MP5C	X	1.599	1.599	0	%100
50	MP5C	Z	2.769	2.769	0	%100
51	MP1B	X	1.599	1.599	0	%100
52	MP1B	Z	2.769	2.769	0	%100
53	MP6B	X	1.599	1.599	0	%100
54	MP6B	Z	2.769	2.769	0	%100
55	MP2B	X	1.599	1.599	0	%100
56	MP2B	Z	2.769	2.769	0	%100
57	MP3B	X	1.772	1.772	0	%100
58	MP3B	Z	3.069	3.069	0	%100
59	MP4B	X	1.599	1.599	0	%100
60	MP4B	Z	2.769	2.769	0	%100
61	MP5B	X	1.599	1.599	0	%100
62	MP5B	Z	2.769	2.769	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	1.329	1.329	0	%100
66	M81A	Z	2.302	2.302	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	1.363	1.363	0	%100
70	M95A	Z	2.361	2.361	0	%100
71	M102	X	1.363	1.363	0	%100
72	M102	Z	2.361	2.361	0	%100
73	M91	X	1.57	1.57	0	%100
74	M91	Z	2.719	2.719	0	%100
75	M92	X	2.364	2.364	0	%100
76	M92	Z	4.094	4.094	0	%100
77	M93	X	1.57	1.57	0	%100
78	M93	Z	2.719	2.719	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	1.652	1.652	0	%100
82	M95B	Z	2.861	2.861	0	%100
83	M96A	X	1.652	1.652	0	%100
84	M96A	Z	2.861	2.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.306	1.306	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	7.324	7.324	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	6.508	6.508	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	1.831	1.831	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	1.831	1.831	0	%100
13	M9A	X	0	0	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M11	X	0	0	0	%100
18	M11	Z	3.127	3.127	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	3.127	3.127	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	.326	.326	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	.326	.326	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	3.544	3.544	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	3.197	3.197	0	%100
29	MP6A	X	0	0	0	%100
30	MP6A	Z	3.197	3.197	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	3.197	3.197	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	3.544	3.544	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	3.197	3.197	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	3.197	3.197	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	3.197	3.197	0	%100
41	MP6C	X	0	0	0	%100
42	MP6C	Z	3.197	3.197	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	3.197	3.197	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	3.544	3.544	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	3.197	3.197	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	3.197	3.197	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	3.197	3.197	0	%100
53	MP6B	X	0	0	0	%100
54	MP6B	Z	3.197	3.197	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	3.197	3.197	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	3.544	3.544	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	3.197	3.197	0	%100
61	MP5B	X	0	0	0	%100
62	MP5B	Z	3.197	3.197	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	.886	.886	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	.886	.886	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	.909	.909	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	.909	.909	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	3.635	3.635	0	%100
73	M91	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	M91	Z	2.611	2.611	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	4.198	4.198	0	%100
77	M93	X	0	0	0	%100
78	M93	Z	4.198	4.198	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	1.101	1.101	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	1.101	1.101	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	4.404	4.404	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.521	-.521	0	%100
2	M1	Z	.903	.903	0	%100
3	M2	X	-.49	-.49	0	%100
4	M2	Z	.848	.848	0	%100
5	FACE	X	-2.747	-2.747	0	%100
6	FACE	Z	4.757	4.757	0	%100
7	M17	X	-2.44	-2.44	0	%100
8	M17	Z	4.227	4.227	0	%100
9	M8	X	-2.747	-2.747	0	%100
10	M8	Z	4.757	4.757	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	-.564	-.564	0	%100
14	M9A	Z	.977	.977	0	%100
15	M10	X	-.564	-.564	0	%100
16	M10	Z	.977	.977	0	%100
17	M11	X	-.521	-.521	0	%100
18	M11	Z	.903	.903	0	%100
19	M12	X	-2.085	-2.085	0	%100
20	M12	Z	3.61	3.61	0	%100
21	M15	X	-.49	-.49	0	%100
22	M15	Z	.848	.848	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	-1.329	-1.329	0	%100
26	OVP	Z	2.302	2.302	0	%100
27	MP1A	X	-1.599	-1.599	0	%100
28	MP1A	Z	2.769	2.769	0	%100
29	MP6A	X	-1.599	-1.599	0	%100
30	MP6A	Z	2.769	2.769	0	%100
31	MP2A	X	-1.599	-1.599	0	%100
32	MP2A	Z	2.769	2.769	0	%100
33	MP3A	X	-1.772	-1.772	0	%100
34	MP3A	Z	3.069	3.069	0	%100
35	MP4A	X	-1.599	-1.599	0	%100
36	MP4A	Z	2.769	2.769	0	%100
37	MP5A	X	-1.599	-1.599	0	%100
38	MP5A	Z	2.769	2.769	0	%100
39	MP1C	X	-1.599	-1.599	0	%100
40	MP1C	Z	2.769	2.769	0	%100
41	MP6C	X	-1.599	-1.599	0	%100
42	MP6C	Z	2.769	2.769	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	MP2C	X	-1.599	-1.599	0	%100
44	MP2C	Z	2.769	2.769	0	%100
45	MP3C	X	-1.772	-1.772	0	%100
46	MP3C	Z	3.069	3.069	0	%100
47	MP4C	X	-1.599	-1.599	0	%100
48	MP4C	Z	2.769	2.769	0	%100
49	MP5C	X	-1.599	-1.599	0	%100
50	MP5C	Z	2.769	2.769	0	%100
51	MP1B	X	-1.599	-1.599	0	%100
52	MP1B	Z	2.769	2.769	0	%100
53	MP6B	X	-1.599	-1.599	0	%100
54	MP6B	Z	2.769	2.769	0	%100
55	MP2B	X	-1.599	-1.599	0	%100
56	MP2B	Z	2.769	2.769	0	%100
57	MP3B	X	-1.772	-1.772	0	%100
58	MP3B	Z	3.069	3.069	0	%100
59	MP4B	X	-1.599	-1.599	0	%100
60	MP4B	Z	2.769	2.769	0	%100
61	MP5B	X	-1.599	-1.599	0	%100
62	MP5B	Z	2.769	2.769	0	%100
63	M80A	X	-1.329	-1.329	0	%100
64	M80A	Z	2.302	2.302	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	-1.363	-1.363	0	%100
68	M88	Z	2.361	2.361	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	-1.363	-1.363	0	%100
72	M102	Z	2.361	2.361	0	%100
73	M91	X	-1.57	-1.57	0	%100
74	M91	Z	2.719	2.719	0	%100
75	M92	X	-1.57	-1.57	0	%100
76	M92	Z	2.719	2.719	0	%100
77	M93	X	-2.364	-2.364	0	%100
78	M93	Z	4.094	4.094	0	%100
79	M94A	X	-1.652	-1.652	0	%100
80	M94A	Z	2.861	2.861	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	-1.652	-1.652	0	%100
84	M96A	Z	2.861	2.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.708	-2.708	0	%100
2	M1	Z	1.563	1.563	0	%100
3	M2	X	-.283	-.283	0	%100
4	M2	Z	.163	.163	0	%100
5	FACE	X	-1.586	-1.586	0	%100
6	FACE	Z	.916	.916	0	%100
7	M17	X	-1.409	-1.409	0	%100
8	M17	Z	.813	.813	0	%100
9	M8	X	-6.343	-6.343	0	%100
10	M8	Z	3.662	3.662	0	%100
11	M9	X	-1.586	-1.586	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M9	Z	.916	.916	0	%100
13	M9A	X	-2.93	-2.93	0	%100
14	M9A	Z	1.691	1.691	0	%100
15	M10	X	-2.93	-2.93	0	%100
16	M10	Z	1.691	1.691	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-2.708	-2.708	0	%100
20	M12	Z	1.563	1.563	0	%100
21	M15	X	-1.131	-1.131	0	%100
22	M15	Z	.653	.653	0	%100
23	M17A	X	-.283	-.283	0	%100
24	M17A	Z	.163	.163	0	%100
25	OVP	X	-.767	-.767	0	%100
26	OVP	Z	.443	.443	0	%100
27	MP1A	X	-2.769	-2.769	0	%100
28	MP1A	Z	1.599	1.599	0	%100
29	MP6A	X	-2.769	-2.769	0	%100
30	MP6A	Z	1.599	1.599	0	%100
31	MP2A	X	-2.769	-2.769	0	%100
32	MP2A	Z	1.599	1.599	0	%100
33	MP3A	X	-3.069	-3.069	0	%100
34	MP3A	Z	1.772	1.772	0	%100
35	MP4A	X	-2.769	-2.769	0	%100
36	MP4A	Z	1.599	1.599	0	%100
37	MP5A	X	-2.769	-2.769	0	%100
38	MP5A	Z	1.599	1.599	0	%100
39	MP1C	X	-2.769	-2.769	0	%100
40	MP1C	Z	1.599	1.599	0	%100
41	MP6C	X	-2.769	-2.769	0	%100
42	MP6C	Z	1.599	1.599	0	%100
43	MP2C	X	-2.769	-2.769	0	%100
44	MP2C	Z	1.599	1.599	0	%100
45	MP3C	X	-3.069	-3.069	0	%100
46	MP3C	Z	1.772	1.772	0	%100
47	MP4C	X	-2.769	-2.769	0	%100
48	MP4C	Z	1.599	1.599	0	%100
49	MP5C	X	-2.769	-2.769	0	%100
50	MP5C	Z	1.599	1.599	0	%100
51	MP1B	X	-2.769	-2.769	0	%100
52	MP1B	Z	1.599	1.599	0	%100
53	MP6B	X	-2.769	-2.769	0	%100
54	MP6B	Z	1.599	1.599	0	%100
55	MP2B	X	-2.769	-2.769	0	%100
56	MP2B	Z	1.599	1.599	0	%100
57	MP3B	X	-3.069	-3.069	0	%100
58	MP3B	Z	1.772	1.772	0	%100
59	MP4B	X	-2.769	-2.769	0	%100
60	MP4B	Z	1.599	1.599	0	%100
61	MP5B	X	-2.769	-2.769	0	%100
62	MP5B	Z	1.599	1.599	0	%100
63	M80A	X	-3.069	-3.069	0	%100
64	M80A	Z	1.772	1.772	0	%100
65	M81A	X	-.767	-.767	0	%100
66	M81A	Z	.443	.443	0	%100
67	M88	X	-3.148	-3.148	0	%100
68	M88	Z	1.817	1.817	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M95A	X	-.787	-.787	0	%100
70	M95A	Z	.454	.454	0	%100
71	M102	X	-.787	-.787	0	%100
72	M102	Z	.454	.454	0	%100
73	M91	X	-3.636	-3.636	0	%100
74	M91	Z	2.099	2.099	0	%100
75	M92	X	-2.261	-2.261	0	%100
76	M92	Z	1.305	1.305	0	%100
77	M93	X	-3.636	-3.636	0	%100
78	M93	Z	2.099	2.099	0	%100
79	M94A	X	-3.814	-3.814	0	%100
80	M94A	Z	2.202	2.202	0	%100
81	M95B	X	-.954	-.954	0	%100
82	M95B	Z	.551	.551	0	%100
83	M96A	X	-.954	-.954	0	%100
84	M96A	Z	.551	.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-4.169	-4.169	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M8	X	-5.493	-5.493	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-5.493	-5.493	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	-4.511	-4.511	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	-4.511	-4.511	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-1.042	-1.042	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-1.042	-1.042	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	-.979	-.979	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	-.979	-.979	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	0	0	0	%100
27	MP1A	X	-3.197	-3.197	0	%100
28	MP1A	Z	0	0	0	%100
29	MP6A	X	-3.197	-3.197	0	%100
30	MP6A	Z	0	0	0	%100
31	MP2A	X	-3.197	-3.197	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-3.544	-3.544	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-3.197	-3.197	0	%100
36	MP4A	Z	0	0	0	%100
37	MP5A	X	-3.197	-3.197	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	MP5A	Z	0	0	0	%100
39	MP1C	X	-3.197	-3.197	0	%100
40	MP1C	Z	0	0	0	%100
41	MP6C	X	-3.197	-3.197	0	%100
42	MP6C	Z	0	0	0	%100
43	MP2C	X	-3.197	-3.197	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-3.544	-3.544	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-3.197	-3.197	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	-3.197	-3.197	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	-3.197	-3.197	0	%100
52	MP1B	Z	0	0	0	%100
53	MP6B	X	-3.197	-3.197	0	%100
54	MP6B	Z	0	0	0	%100
55	MP2B	X	-3.197	-3.197	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	-3.544	-3.544	0	%100
58	MP3B	Z	0	0	0	%100
59	MP4B	X	-3.197	-3.197	0	%100
60	MP4B	Z	0	0	0	%100
61	MP5B	X	-3.197	-3.197	0	%100
62	MP5B	Z	0	0	0	%100
63	M80A	X	-2.658	-2.658	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	-2.658	-2.658	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	-2.726	-2.726	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	-2.726	-2.726	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	0	0	0	%100
73	M91	X	-4.727	-4.727	0	%100
74	M91	Z	0	0	0	%100
75	M92	X	-3.14	-3.14	0	%100
76	M92	Z	0	0	0	%100
77	M93	X	-3.14	-3.14	0	%100
78	M93	Z	0	0	0	%100
79	M94A	X	-3.303	-3.303	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	-3.303	-3.303	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.708	-2.708	0	%100
2	M1	Z	-1.563	-1.563	0	%100
3	M2	X	-.283	-.283	0	%100
4	M2	Z	-.163	-.163	0	%100
5	FACE	X	-1.586	-1.586	0	%100
6	FACE	Z	-.916	-.916	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	M17	X	-1.409	-1.409	0	%100
8	M17	Z	-.813	-.813	0	%100
9	M8	X	-1.586	-1.586	0	%100
10	M8	Z	-.916	-.916	0	%100
11	M9	X	-6.343	-6.343	0	%100
12	M9	Z	-3.662	-3.662	0	%100
13	M9A	X	-2.93	-2.93	0	%100
14	M9A	Z	-1.691	-1.691	0	%100
15	M10	X	-2.93	-2.93	0	%100
16	M10	Z	-1.691	-1.691	0	%100
17	M11	X	-2.708	-2.708	0	%100
18	M11	Z	-1.563	-1.563	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	-.283	-.283	0	%100
22	M15	Z	-.163	-.163	0	%100
23	M17A	X	-1.131	-1.131	0	%100
24	M17A	Z	-.653	-.653	0	%100
25	OVP	X	-.767	-.767	0	%100
26	OVP	Z	-.443	-.443	0	%100
27	MP1A	X	-2.769	-2.769	0	%100
28	MP1A	Z	-1.599	-1.599	0	%100
29	MP6A	X	-2.769	-2.769	0	%100
30	MP6A	Z	-1.599	-1.599	0	%100
31	MP2A	X	-2.769	-2.769	0	%100
32	MP2A	Z	-1.599	-1.599	0	%100
33	MP3A	X	-3.069	-3.069	0	%100
34	MP3A	Z	-1.772	-1.772	0	%100
35	MP4A	X	-2.769	-2.769	0	%100
36	MP4A	Z	-1.599	-1.599	0	%100
37	MP5A	X	-2.769	-2.769	0	%100
38	MP5A	Z	-1.599	-1.599	0	%100
39	MP1C	X	-2.769	-2.769	0	%100
40	MP1C	Z	-1.599	-1.599	0	%100
41	MP6C	X	-2.769	-2.769	0	%100
42	MP6C	Z	-1.599	-1.599	0	%100
43	MP2C	X	-2.769	-2.769	0	%100
44	MP2C	Z	-1.599	-1.599	0	%100
45	MP3C	X	-3.069	-3.069	0	%100
46	MP3C	Z	-1.772	-1.772	0	%100
47	MP4C	X	-2.769	-2.769	0	%100
48	MP4C	Z	-1.599	-1.599	0	%100
49	MP5C	X	-2.769	-2.769	0	%100
50	MP5C	Z	-1.599	-1.599	0	%100
51	MP1B	X	-2.769	-2.769	0	%100
52	MP1B	Z	-1.599	-1.599	0	%100
53	MP6B	X	-2.769	-2.769	0	%100
54	MP6B	Z	-1.599	-1.599	0	%100
55	MP2B	X	-2.769	-2.769	0	%100
56	MP2B	Z	-1.599	-1.599	0	%100
57	MP3B	X	-3.069	-3.069	0	%100
58	MP3B	Z	-1.772	-1.772	0	%100
59	MP4B	X	-2.769	-2.769	0	%100
60	MP4B	Z	-1.599	-1.599	0	%100
61	MP5B	X	-2.769	-2.769	0	%100
62	MP5B	Z	-1.599	-1.599	0	%100
63	M80A	X	-.767	-.767	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	M80A	Z	-.443	-.443	0	%100
65	M81A	X	-3.069	-3.069	0	%100
66	M81A	Z	-1.772	-1.772	0	%100
67	M88	X	-.787	-.787	0	%100
68	M88	Z	-.454	-.454	0	%100
69	M95A	X	-3.148	-3.148	0	%100
70	M95A	Z	-1.817	-1.817	0	%100
71	M102	X	-.787	-.787	0	%100
72	M102	Z	-.454	-.454	0	%100
73	M91	X	-3.636	-3.636	0	%100
74	M91	Z	-2.099	-2.099	0	%100
75	M92	X	-3.636	-3.636	0	%100
76	M92	Z	-2.099	-2.099	0	%100
77	M93	X	-2.261	-2.261	0	%100
78	M93	Z	-1.305	-1.305	0	%100
79	M94A	X	-.954	-.954	0	%100
80	M94A	Z	-.551	-.551	0	%100
81	M95B	X	-3.814	-3.814	0	%100
82	M95B	Z	-2.202	-2.202	0	%100
83	M96A	X	-.954	-.954	0	%100
84	M96A	Z	-.551	-.551	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.521	-.521	0	%100
2	M1	Z	-.903	-.903	0	%100
3	M2	X	-.49	-.49	0	%100
4	M2	Z	-.848	-.848	0	%100
5	FACE	X	-2.747	-2.747	0	%100
6	FACE	Z	-4.757	-4.757	0	%100
7	M17	X	-2.44	-2.44	0	%100
8	M17	Z	-4.227	-4.227	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-2.747	-2.747	0	%100
12	M9	Z	-4.757	-4.757	0	%100
13	M9A	X	-.564	-.564	0	%100
14	M9A	Z	-.977	-.977	0	%100
15	M10	X	-.564	-.564	0	%100
16	M10	Z	-.977	-.977	0	%100
17	M11	X	-2.085	-2.085	0	%100
18	M11	Z	-3.61	-3.61	0	%100
19	M12	X	-.521	-.521	0	%100
20	M12	Z	-.903	-.903	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	-.49	-.49	0	%100
24	M17A	Z	-.848	-.848	0	%100
25	OVP	X	-1.329	-1.329	0	%100
26	OVP	Z	-2.302	-2.302	0	%100
27	MP1A	X	-1.599	-1.599	0	%100
28	MP1A	Z	-2.769	-2.769	0	%100
29	MP6A	X	-1.599	-1.599	0	%100
30	MP6A	Z	-2.769	-2.769	0	%100
31	MP2A	X	-1.599	-1.599	0	%100
32	MP2A	Z	-2.769	-2.769	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP3A	X	-1.772	-1.772	0	%100
34	MP3A	Z	-3.069	-3.069	0	%100
35	MP4A	X	-1.599	-1.599	0	%100
36	MP4A	Z	-2.769	-2.769	0	%100
37	MP5A	X	-1.599	-1.599	0	%100
38	MP5A	Z	-2.769	-2.769	0	%100
39	MP1C	X	-1.599	-1.599	0	%100
40	MP1C	Z	-2.769	-2.769	0	%100
41	MP6C	X	-1.599	-1.599	0	%100
42	MP6C	Z	-2.769	-2.769	0	%100
43	MP2C	X	-1.599	-1.599	0	%100
44	MP2C	Z	-2.769	-2.769	0	%100
45	MP3C	X	-1.772	-1.772	0	%100
46	MP3C	Z	-3.069	-3.069	0	%100
47	MP4C	X	-1.599	-1.599	0	%100
48	MP4C	Z	-2.769	-2.769	0	%100
49	MP5C	X	-1.599	-1.599	0	%100
50	MP5C	Z	-2.769	-2.769	0	%100
51	MP1B	X	-1.599	-1.599	0	%100
52	MP1B	Z	-2.769	-2.769	0	%100
53	MP6B	X	-1.599	-1.599	0	%100
54	MP6B	Z	-2.769	-2.769	0	%100
55	MP2B	X	-1.599	-1.599	0	%100
56	MP2B	Z	-2.769	-2.769	0	%100
57	MP3B	X	-1.772	-1.772	0	%100
58	MP3B	Z	-3.069	-3.069	0	%100
59	MP4B	X	-1.599	-1.599	0	%100
60	MP4B	Z	-2.769	-2.769	0	%100
61	MP5B	X	-1.599	-1.599	0	%100
62	MP5B	Z	-2.769	-2.769	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	-1.329	-1.329	0	%100
66	M81A	Z	-2.302	-2.302	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	-1.363	-1.363	0	%100
70	M95A	Z	-2.361	-2.361	0	%100
71	M102	X	-1.363	-1.363	0	%100
72	M102	Z	-2.361	-2.361	0	%100
73	M91	X	-1.57	-1.57	0	%100
74	M91	Z	-2.719	-2.719	0	%100
75	M92	X	-2.364	-2.364	0	%100
76	M92	Z	-4.094	-4.094	0	%100
77	M93	X	-1.57	-1.57	0	%100
78	M93	Z	-2.719	-2.719	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	-1.652	-1.652	0	%100
82	M95B	Z	-2.861	-2.861	0	%100
83	M96A	X	-1.652	-1.652	0	%100
84	M96A	Z	-2.861	-2.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.125	-.125	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	-2.078	-2.078	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	-1.784	-1.784	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.519	-.519	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-.519	-.519	0	%100
13	M9A	X	0	0	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-.707	-.707	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-.707	-.707	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	-.031	-.031	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	-.031	-.031	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	-.717	-.717	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-.592	-.592	0	%100
29	MP6A	X	0	0	0	%100
30	MP6A	Z	-.592	-.592	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-.592	-.592	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-.717	-.717	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-.592	-.592	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-.592	-.592	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	-.592	-.592	0	%100
41	MP6C	X	0	0	0	%100
42	MP6C	Z	-.592	-.592	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-.592	-.592	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-.717	-.717	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-.592	-.592	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	-.592	-.592	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-.592	-.592	0	%100
53	MP6B	X	0	0	0	%100
54	MP6B	Z	-.592	-.592	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	-.592	-.592	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	-.717	-.717	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP4B	X	0	0	0	%100
60	MP4B	Z	-.592	-.592	0	%100
61	MP5B	X	0	0	0	%100
62	MP5B	Z	-.592	-.592	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	-.179	-.179	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	-.179	-.179	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	-.224	-.224	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	-.224	-.224	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	-.896	-.896	0	%100
73	M91	X	0	0	0	%100
74	M91	Z	-.739	-.739	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	-1.042	-1.042	0	%100
77	M93	X	0	0	0	%100
78	M93	Z	-1.042	-1.042	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	-.266	-.266	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	-.266	-.266	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	-1.062	-1.062	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.118	.118	0	%100
2	M1	Z	-.204	-.204	0	%100
3	M2	X	.047	.047	0	%100
4	M2	Z	-.081	-.081	0	%100
5	FACE	X	.779	.779	0	%100
6	FACE	Z	-1.35	-1.35	0	%100
7	M17	X	.669	.669	0	%100
8	M17	Z	-1.159	-1.159	0	%100
9	M8	X	.779	.779	0	%100
10	M8	Z	-1.35	-1.35	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	.133	.133	0	%100
14	M9A	Z	-.231	-.231	0	%100
15	M10	X	.133	.133	0	%100
16	M10	Z	-.231	-.231	0	%100
17	M11	X	.118	.118	0	%100
18	M11	Z	-.204	-.204	0	%100
19	M12	X	.471	.471	0	%100
20	M12	Z	-.816	-.816	0	%100
21	M15	X	.047	.047	0	%100
22	M15	Z	-.081	-.081	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	.269	.269	0	%100
26	OVP	Z	-.466	-.466	0	%100
27	MP1A	X	.296	.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	MP1A	Z	-.513	-.513	0	%100
29	MP6A	X	.296	.296	0	%100
30	MP6A	Z	-.513	-.513	0	%100
31	MP2A	X	.296	.296	0	%100
32	MP2A	Z	-.513	-.513	0	%100
33	MP3A	X	.358	.358	0	%100
34	MP3A	Z	-.621	-.621	0	%100
35	MP4A	X	.296	.296	0	%100
36	MP4A	Z	-.513	-.513	0	%100
37	MP5A	X	.296	.296	0	%100
38	MP5A	Z	-.513	-.513	0	%100
39	MP1C	X	.296	.296	0	%100
40	MP1C	Z	-.513	-.513	0	%100
41	MP6C	X	.296	.296	0	%100
42	MP6C	Z	-.513	-.513	0	%100
43	MP2C	X	.296	.296	0	%100
44	MP2C	Z	-.513	-.513	0	%100
45	MP3C	X	.358	.358	0	%100
46	MP3C	Z	-.621	-.621	0	%100
47	MP4C	X	.296	.296	0	%100
48	MP4C	Z	-.513	-.513	0	%100
49	MP5C	X	.296	.296	0	%100
50	MP5C	Z	-.513	-.513	0	%100
51	MP1B	X	.296	.296	0	%100
52	MP1B	Z	-.513	-.513	0	%100
53	MP6B	X	.296	.296	0	%100
54	MP6B	Z	-.513	-.513	0	%100
55	MP2B	X	.296	.296	0	%100
56	MP2B	Z	-.513	-.513	0	%100
57	MP3B	X	.358	.358	0	%100
58	MP3B	Z	-.621	-.621	0	%100
59	MP4B	X	.296	.296	0	%100
60	MP4B	Z	-.513	-.513	0	%100
61	MP5B	X	.296	.296	0	%100
62	MP5B	Z	-.513	-.513	0	%100
63	M80A	X	.269	.269	0	%100
64	M80A	Z	-.466	-.466	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	.336	.336	0	%100
68	M88	Z	-.582	-.582	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	.336	.336	0	%100
72	M102	Z	-.582	-.582	0	%100
73	M91	X	.42	.42	0	%100
74	M91	Z	-.727	-.727	0	%100
75	M92	X	.42	.42	0	%100
76	M92	Z	-.727	-.727	0	%100
77	M93	X	.571	.571	0	%100
78	M93	Z	-.99	-.99	0	%100
79	M94A	X	.398	.398	0	%100
80	M94A	Z	-.69	-.69	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	.398	.398	0	%100
84	M96A	Z	-.69	-.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.612	.612	0	%100
2	M1	Z	-.353	-.353	0	%100
3	M2	X	.027	.027	0	%100
4	M2	Z	-.016	-.016	0	%100
5	FACE	X	.45	.45	0	%100
6	FACE	Z	-.26	-.26	0	%100
7	M17	X	.386	.386	0	%100
8	M17	Z	-.223	-.223	0	%100
9	M8	X	1.8	1.8	0	%100
10	M8	Z	-1.039	-1.039	0	%100
11	M9	X	.45	.45	0	%100
12	M9	Z	-.26	-.26	0	%100
13	M9A	X	.692	.692	0	%100
14	M9A	Z	-.399	-.399	0	%100
15	M10	X	.692	.692	0	%100
16	M10	Z	-.399	-.399	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.612	.612	0	%100
20	M12	Z	-.353	-.353	0	%100
21	M15	X	.108	.108	0	%100
22	M15	Z	-.062	-.062	0	%100
23	M17A	X	.027	.027	0	%100
24	M17A	Z	-.016	-.016	0	%100
25	OVP	X	.155	.155	0	%100
26	OVP	Z	-.09	-.09	0	%100
27	MP1A	X	.513	.513	0	%100
28	MP1A	Z	-.296	-.296	0	%100
29	MP6A	X	.513	.513	0	%100
30	MP6A	Z	-.296	-.296	0	%100
31	MP2A	X	.513	.513	0	%100
32	MP2A	Z	-.296	-.296	0	%100
33	MP3A	X	.621	.621	0	%100
34	MP3A	Z	-.358	-.358	0	%100
35	MP4A	X	.513	.513	0	%100
36	MP4A	Z	-.296	-.296	0	%100
37	MP5A	X	.513	.513	0	%100
38	MP5A	Z	-.296	-.296	0	%100
39	MP1C	X	.513	.513	0	%100
40	MP1C	Z	-.296	-.296	0	%100
41	MP6C	X	.513	.513	0	%100
42	MP6C	Z	-.296	-.296	0	%100
43	MP2C	X	.513	.513	0	%100
44	MP2C	Z	-.296	-.296	0	%100
45	MP3C	X	.621	.621	0	%100
46	MP3C	Z	-.358	-.358	0	%100
47	MP4C	X	.513	.513	0	%100
48	MP4C	Z	-.296	-.296	0	%100
49	MP5C	X	.513	.513	0	%100
50	MP5C	Z	-.296	-.296	0	%100
51	MP1B	X	.513	.513	0	%100
52	MP1B	Z	-.296	-.296	0	%100
53	MP6B	X	.513	.513	0	%100
54	MP6B	Z	-.296	-.296	0	%100
55	MP2B	X	.513	.513	0	%100
56	MP2B	Z	-.296	-.296	0	%100
57	MP3B	X	.621	.621	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-.358	-.358	0	%100
59	MP4B	X	.513	.513	0	%100
60	MP4B	Z	-.296	-.296	0	%100
61	MP5B	X	.513	.513	0	%100
62	MP5B	Z	-.296	-.296	0	%100
63	M80A	X	.621	.621	0	%100
64	M80A	Z	-.358	-.358	0	%100
65	M81A	X	.155	.155	0	%100
66	M81A	Z	-.09	-.09	0	%100
67	M88	X	.776	.776	0	%100
68	M88	Z	-.448	-.448	0	%100
69	M95A	X	.194	.194	0	%100
70	M95A	Z	-.112	-.112	0	%100
71	M102	X	.194	.194	0	%100
72	M102	Z	-.112	-.112	0	%100
73	M91	X	.902	.902	0	%100
74	M91	Z	-.521	-.521	0	%100
75	M92	X	.64	.64	0	%100
76	M92	Z	-.369	-.369	0	%100
77	M93	X	.902	.902	0	%100
78	M93	Z	-.521	-.521	0	%100
79	M94A	X	.92	.92	0	%100
80	M94A	Z	-.531	-.531	0	%100
81	M95B	X	.23	.23	0	%100
82	M95B	Z	-.133	-.133	0	%100
83	M96A	X	.23	.23	0	%100
84	M96A	Z	-.133	-.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.942	.942	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M8	X	1.558	1.558	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	1.558	1.558	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	1.065	1.065	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	1.065	1.065	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	.236	.236	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.236	.236	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	.094	.094	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	.094	.094	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	MP1A	X	.592	.592	0	%100
28	MP1A	Z	0	0	0	%100
29	MP6A	X	.592	.592	0	%100
30	MP6A	Z	0	0	0	%100
31	MP2A	X	.592	.592	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	.717	.717	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	.592	.592	0	%100
36	MP4A	Z	0	0	0	%100
37	MP5A	X	.592	.592	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1C	X	.592	.592	0	%100
40	MP1C	Z	0	0	0	%100
41	MP6C	X	.592	.592	0	%100
42	MP6C	Z	0	0	0	%100
43	MP2C	X	.592	.592	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	.717	.717	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	.592	.592	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	.592	.592	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	.592	.592	0	%100
52	MP1B	Z	0	0	0	%100
53	MP6B	X	.592	.592	0	%100
54	MP6B	Z	0	0	0	%100
55	MP2B	X	.592	.592	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	.717	.717	0	%100
58	MP3B	Z	0	0	0	%100
59	MP4B	X	.592	.592	0	%100
60	MP4B	Z	0	0	0	%100
61	MP5B	X	.592	.592	0	%100
62	MP5B	Z	0	0	0	%100
63	M80A	X	.538	.538	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	.538	.538	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	.672	.672	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	.672	.672	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	0	0	0	%100
73	M91	X	1.143	1.143	0	%100
74	M91	Z	0	0	0	%100
75	M92	X	.84	.84	0	%100
76	M92	Z	0	0	0	%100
77	M93	X	.84	.84	0	%100
78	M93	Z	0	0	0	%100
79	M94A	X	.797	.797	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	.797	.797	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	M96A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.612	.612	0	%100
2	M1	Z	.353	.353	0	%100
3	M2	X	.027	.027	0	%100
4	M2	Z	.016	.016	0	%100
5	FACE	X	.45	.45	0	%100
6	FACE	Z	.26	.26	0	%100
7	M17	X	.386	.386	0	%100
8	M17	Z	.223	.223	0	%100
9	M8	X	.45	.45	0	%100
10	M8	Z	.26	.26	0	%100
11	M9	X	1.8	1.8	0	%100
12	M9	Z	1.039	1.039	0	%100
13	M9A	X	.692	.692	0	%100
14	M9A	Z	.399	.399	0	%100
15	M10	X	.692	.692	0	%100
16	M10	Z	.399	.399	0	%100
17	M11	X	.612	.612	0	%100
18	M11	Z	.353	.353	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	.027	.027	0	%100
22	M15	Z	.016	.016	0	%100
23	M17A	X	.108	.108	0	%100
24	M17A	Z	.062	.062	0	%100
25	OVP	X	.155	.155	0	%100
26	OVP	Z	.09	.09	0	%100
27	MP1A	X	.513	.513	0	%100
28	MP1A	Z	.296	.296	0	%100
29	MP6A	X	.513	.513	0	%100
30	MP6A	Z	.296	.296	0	%100
31	MP2A	X	.513	.513	0	%100
32	MP2A	Z	.296	.296	0	%100
33	MP3A	X	.621	.621	0	%100
34	MP3A	Z	.358	.358	0	%100
35	MP4A	X	.513	.513	0	%100
36	MP4A	Z	.296	.296	0	%100
37	MP5A	X	.513	.513	0	%100
38	MP5A	Z	.296	.296	0	%100
39	MP1C	X	.513	.513	0	%100
40	MP1C	Z	.296	.296	0	%100
41	MP6C	X	.513	.513	0	%100
42	MP6C	Z	.296	.296	0	%100
43	MP2C	X	.513	.513	0	%100
44	MP2C	Z	.296	.296	0	%100
45	MP3C	X	.621	.621	0	%100
46	MP3C	Z	.358	.358	0	%100
47	MP4C	X	.513	.513	0	%100
48	MP4C	Z	.296	.296	0	%100
49	MP5C	X	.513	.513	0	%100
50	MP5C	Z	.296	.296	0	%100
51	MP1B	X	.513	.513	0	%100
52	MP1B	Z	.296	.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	MP6B	X	.513	.513	0	%100
54	MP6B	Z	.296	.296	0	%100
55	MP2B	X	.513	.513	0	%100
56	MP2B	Z	.296	.296	0	%100
57	MP3B	X	.621	.621	0	%100
58	MP3B	Z	.358	.358	0	%100
59	MP4B	X	.513	.513	0	%100
60	MP4B	Z	.296	.296	0	%100
61	MP5B	X	.513	.513	0	%100
62	MP5B	Z	.296	.296	0	%100
63	M80A	X	.155	.155	0	%100
64	M80A	Z	.09	.09	0	%100
65	M81A	X	.621	.621	0	%100
66	M81A	Z	.358	.358	0	%100
67	M88	X	.194	.194	0	%100
68	M88	Z	.112	.112	0	%100
69	M95A	X	.776	.776	0	%100
70	M95A	Z	.448	.448	0	%100
71	M102	X	.194	.194	0	%100
72	M102	Z	.112	.112	0	%100
73	M91	X	.902	.902	0	%100
74	M91	Z	.521	.521	0	%100
75	M92	X	.902	.902	0	%100
76	M92	Z	.521	.521	0	%100
77	M93	X	.64	.64	0	%100
78	M93	Z	.369	.369	0	%100
79	M94A	X	.23	.23	0	%100
80	M94A	Z	.133	.133	0	%100
81	M95B	X	.92	.92	0	%100
82	M95B	Z	.531	.531	0	%100
83	M96A	X	.23	.23	0	%100
84	M96A	Z	.133	.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.118	.118	0	%100
2	M1	Z	.204	.204	0	%100
3	M2	X	.047	.047	0	%100
4	M2	Z	.081	.081	0	%100
5	FACE	X	.779	.779	0	%100
6	FACE	Z	1.35	1.35	0	%100
7	M17	X	.669	.669	0	%100
8	M17	Z	1.159	1.159	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	.779	.779	0	%100
12	M9	Z	1.35	1.35	0	%100
13	M9A	X	.133	.133	0	%100
14	M9A	Z	.231	.231	0	%100
15	M10	X	.133	.133	0	%100
16	M10	Z	.231	.231	0	%100
17	M11	X	.471	.471	0	%100
18	M11	Z	.816	.816	0	%100
19	M12	X	.118	.118	0	%100
20	M12	Z	.204	.204	0	%100
21	M15	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M15	Z	0	0	0	%100
23	M17A	X	.047	.047	0	%100
24	M17A	Z	.081	.081	0	%100
25	OVP	X	.269	.269	0	%100
26	OVP	Z	.466	.466	0	%100
27	MP1A	X	.296	.296	0	%100
28	MP1A	Z	.513	.513	0	%100
29	MP6A	X	.296	.296	0	%100
30	MP6A	Z	.513	.513	0	%100
31	MP2A	X	.296	.296	0	%100
32	MP2A	Z	.513	.513	0	%100
33	MP3A	X	.358	.358	0	%100
34	MP3A	Z	.621	.621	0	%100
35	MP4A	X	.296	.296	0	%100
36	MP4A	Z	.513	.513	0	%100
37	MP5A	X	.296	.296	0	%100
38	MP5A	Z	.513	.513	0	%100
39	MP1C	X	.296	.296	0	%100
40	MP1C	Z	.513	.513	0	%100
41	MP6C	X	.296	.296	0	%100
42	MP6C	Z	.513	.513	0	%100
43	MP2C	X	.296	.296	0	%100
44	MP2C	Z	.513	.513	0	%100
45	MP3C	X	.358	.358	0	%100
46	MP3C	Z	.621	.621	0	%100
47	MP4C	X	.296	.296	0	%100
48	MP4C	Z	.513	.513	0	%100
49	MP5C	X	.296	.296	0	%100
50	MP5C	Z	.513	.513	0	%100
51	MP1B	X	.296	.296	0	%100
52	MP1B	Z	.513	.513	0	%100
53	MP6B	X	.296	.296	0	%100
54	MP6B	Z	.513	.513	0	%100
55	MP2B	X	.296	.296	0	%100
56	MP2B	Z	.513	.513	0	%100
57	MP3B	X	.358	.358	0	%100
58	MP3B	Z	.621	.621	0	%100
59	MP4B	X	.296	.296	0	%100
60	MP4B	Z	.513	.513	0	%100
61	MP5B	X	.296	.296	0	%100
62	MP5B	Z	.513	.513	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	.269	.269	0	%100
66	M81A	Z	.466	.466	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	.336	.336	0	%100
70	M95A	Z	.582	.582	0	%100
71	M102	X	.336	.336	0	%100
72	M102	Z	.582	.582	0	%100
73	M91	X	.42	.42	0	%100
74	M91	Z	.727	.727	0	%100
75	M92	X	.571	.571	0	%100
76	M92	Z	.99	.99	0	%100
77	M93	X	.42	.42	0	%100
78	M93	Z	.727	.727	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	M94A	X	0	0	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	.398	.398	0	%100
82	M95B	Z	.69	.69	0	%100
83	M96A	X	.398	.398	0	%100
84	M96A	Z	.69	.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.125	.125	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	2.078	2.078	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	1.784	1.784	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.519	.519	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.519	.519	0	%100
13	M9A	X	0	0	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	.707	.707	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	.707	.707	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	.031	.031	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	.031	.031	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	.717	.717	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	.592	.592	0	%100
29	MP6A	X	0	0	0	%100
30	MP6A	Z	.592	.592	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	.592	.592	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	.717	.717	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	.592	.592	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	.592	.592	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	.592	.592	0	%100
41	MP6C	X	0	0	0	%100
42	MP6C	Z	.592	.592	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	.592	.592	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	.717	.717	0	%100
47	MP4C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	MP4C	Z	.592	.592	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	.592	.592	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	.592	.592	0	%100
53	MP6B	X	0	0	0	%100
54	MP6B	Z	.592	.592	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	.592	.592	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	.717	.717	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	.592	.592	0	%100
61	MP5B	X	0	0	0	%100
62	MP5B	Z	.592	.592	0	%100
63	M80A	X	0	0	0	%100
64	M80A	Z	.179	.179	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	.179	.179	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	.224	.224	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	.224	.224	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	.896	.896	0	%100
73	M91	X	0	0	0	%100
74	M91	Z	.739	.739	0	%100
75	M92	X	0	0	0	%100
76	M92	Z	1.042	1.042	0	%100
77	M93	X	0	0	0	%100
78	M93	Z	1.042	1.042	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	.266	.266	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	.266	.266	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	1.062	1.062	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.118	-.118	0	%100
2	M1	Z	.204	.204	0	%100
3	M2	X	-.047	-.047	0	%100
4	M2	Z	.081	.081	0	%100
5	FACE	X	-.779	-.779	0	%100
6	FACE	Z	1.35	1.35	0	%100
7	M17	X	-.669	-.669	0	%100
8	M17	Z	1.159	1.159	0	%100
9	M8	X	-.779	-.779	0	%100
10	M8	Z	1.35	1.35	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	0	0	0	%100
13	M9A	X	-.133	-.133	0	%100
14	M9A	Z	.231	.231	0	%100
15	M10	X	-.133	-.133	0	%100
16	M10	Z	.231	.231	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M11	X	-.118	-.118	0	%100
18	M11	Z	.204	.204	0	%100
19	M12	X	-.471	-.471	0	%100
20	M12	Z	.816	.816	0	%100
21	M15	X	-.047	-.047	0	%100
22	M15	Z	.081	.081	0	%100
23	M17A	X	0	0	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	-.269	-.269	0	%100
26	OVP	Z	.466	.466	0	%100
27	MP1A	X	-.296	-.296	0	%100
28	MP1A	Z	.513	.513	0	%100
29	MP6A	X	-.296	-.296	0	%100
30	MP6A	Z	.513	.513	0	%100
31	MP2A	X	-.296	-.296	0	%100
32	MP2A	Z	.513	.513	0	%100
33	MP3A	X	-.358	-.358	0	%100
34	MP3A	Z	.621	.621	0	%100
35	MP4A	X	-.296	-.296	0	%100
36	MP4A	Z	.513	.513	0	%100
37	MP5A	X	-.296	-.296	0	%100
38	MP5A	Z	.513	.513	0	%100
39	MP1C	X	-.296	-.296	0	%100
40	MP1C	Z	.513	.513	0	%100
41	MP6C	X	-.296	-.296	0	%100
42	MP6C	Z	.513	.513	0	%100
43	MP2C	X	-.296	-.296	0	%100
44	MP2C	Z	.513	.513	0	%100
45	MP3C	X	-.358	-.358	0	%100
46	MP3C	Z	.621	.621	0	%100
47	MP4C	X	-.296	-.296	0	%100
48	MP4C	Z	.513	.513	0	%100
49	MP5C	X	-.296	-.296	0	%100
50	MP5C	Z	.513	.513	0	%100
51	MP1B	X	-.296	-.296	0	%100
52	MP1B	Z	.513	.513	0	%100
53	MP6B	X	-.296	-.296	0	%100
54	MP6B	Z	.513	.513	0	%100
55	MP2B	X	-.296	-.296	0	%100
56	MP2B	Z	.513	.513	0	%100
57	MP3B	X	-.358	-.358	0	%100
58	MP3B	Z	.621	.621	0	%100
59	MP4B	X	-.296	-.296	0	%100
60	MP4B	Z	.513	.513	0	%100
61	MP5B	X	-.296	-.296	0	%100
62	MP5B	Z	.513	.513	0	%100
63	M80A	X	-.269	-.269	0	%100
64	M80A	Z	.466	.466	0	%100
65	M81A	X	0	0	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	-.336	-.336	0	%100
68	M88	Z	.582	.582	0	%100
69	M95A	X	0	0	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	-.336	-.336	0	%100
72	M102	Z	.582	.582	0	%100
73	M91	X	-.42	-.42	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	M91	Z	.727	.727	0	%100
75	M92	X	-.42	-.42	0	%100
76	M92	Z	.727	.727	0	%100
77	M93	X	-.571	-.571	0	%100
78	M93	Z	.99	.99	0	%100
79	M94A	X	-.398	-.398	0	%100
80	M94A	Z	.69	.69	0	%100
81	M95B	X	0	0	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	-.398	-.398	0	%100
84	M96A	Z	.69	.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.612	-.612	0	%100
2	M1	Z	.353	.353	0	%100
3	M2	X	-.027	-.027	0	%100
4	M2	Z	.016	.016	0	%100
5	FACE	X	-.45	-.45	0	%100
6	FACE	Z	.26	.26	0	%100
7	M17	X	-.386	-.386	0	%100
8	M17	Z	.223	.223	0	%100
9	M8	X	-1.8	-1.8	0	%100
10	M8	Z	1.039	1.039	0	%100
11	M9	X	-.45	-.45	0	%100
12	M9	Z	.26	.26	0	%100
13	M9A	X	-.692	-.692	0	%100
14	M9A	Z	.399	.399	0	%100
15	M10	X	-.692	-.692	0	%100
16	M10	Z	.399	.399	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.612	-.612	0	%100
20	M12	Z	.353	.353	0	%100
21	M15	X	-.108	-.108	0	%100
22	M15	Z	.062	.062	0	%100
23	M17A	X	-.027	-.027	0	%100
24	M17A	Z	.016	.016	0	%100
25	OVP	X	-.155	-.155	0	%100
26	OVP	Z	.09	.09	0	%100
27	MP1A	X	-.513	-.513	0	%100
28	MP1A	Z	.296	.296	0	%100
29	MP6A	X	-.513	-.513	0	%100
30	MP6A	Z	.296	.296	0	%100
31	MP2A	X	-.513	-.513	0	%100
32	MP2A	Z	.296	.296	0	%100
33	MP3A	X	-.621	-.621	0	%100
34	MP3A	Z	.358	.358	0	%100
35	MP4A	X	-.513	-.513	0	%100
36	MP4A	Z	.296	.296	0	%100
37	MP5A	X	-.513	-.513	0	%100
38	MP5A	Z	.296	.296	0	%100
39	MP1C	X	-.513	-.513	0	%100
40	MP1C	Z	.296	.296	0	%100
41	MP6C	X	-.513	-.513	0	%100
42	MP6C	Z	.296	.296	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	MP2C	X	-.513	-.513	0	%100
44	MP2C	Z	.296	.296	0	%100
45	MP3C	X	-.621	-.621	0	%100
46	MP3C	Z	.358	.358	0	%100
47	MP4C	X	-.513	-.513	0	%100
48	MP4C	Z	.296	.296	0	%100
49	MP5C	X	-.513	-.513	0	%100
50	MP5C	Z	.296	.296	0	%100
51	MP1B	X	-.513	-.513	0	%100
52	MP1B	Z	.296	.296	0	%100
53	MP6B	X	-.513	-.513	0	%100
54	MP6B	Z	.296	.296	0	%100
55	MP2B	X	-.513	-.513	0	%100
56	MP2B	Z	.296	.296	0	%100
57	MP3B	X	-.621	-.621	0	%100
58	MP3B	Z	.358	.358	0	%100
59	MP4B	X	-.513	-.513	0	%100
60	MP4B	Z	.296	.296	0	%100
61	MP5B	X	-.513	-.513	0	%100
62	MP5B	Z	.296	.296	0	%100
63	M80A	X	-.621	-.621	0	%100
64	M80A	Z	.358	.358	0	%100
65	M81A	X	-.155	-.155	0	%100
66	M81A	Z	.09	.09	0	%100
67	M88	X	-.776	-.776	0	%100
68	M88	Z	.448	.448	0	%100
69	M95A	X	-.194	-.194	0	%100
70	M95A	Z	.112	.112	0	%100
71	M102	X	-.194	-.194	0	%100
72	M102	Z	.112	.112	0	%100
73	M91	X	-.902	-.902	0	%100
74	M91	Z	.521	.521	0	%100
75	M92	X	-.64	-.64	0	%100
76	M92	Z	.369	.369	0	%100
77	M93	X	-.902	-.902	0	%100
78	M93	Z	.521	.521	0	%100
79	M94A	X	-.92	-.92	0	%100
80	M94A	Z	.531	.531	0	%100
81	M95B	X	-.23	-.23	0	%100
82	M95B	Z	.133	.133	0	%100
83	M96A	X	-.23	-.23	0	%100
84	M96A	Z	.133	.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.942	-.942	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M8	X	-1.558	-1.558	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-1.558	-1.558	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M9	Z	0	0	0	%100
13	M9A	X	-1.065	-1.065	0	%100
14	M9A	Z	0	0	0	%100
15	M10	X	-1.065	-1.065	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-.236	-.236	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.236	-.236	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	-.094	-.094	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	-.094	-.094	0	%100
24	M17A	Z	0	0	0	%100
25	OVP	X	0	0	0	%100
26	OVP	Z	0	0	0	%100
27	MP1A	X	-.592	-.592	0	%100
28	MP1A	Z	0	0	0	%100
29	MP6A	X	-.592	-.592	0	%100
30	MP6A	Z	0	0	0	%100
31	MP2A	X	-.592	-.592	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-.717	-.717	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-.592	-.592	0	%100
36	MP4A	Z	0	0	0	%100
37	MP5A	X	-.592	-.592	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1C	X	-.592	-.592	0	%100
40	MP1C	Z	0	0	0	%100
41	MP6C	X	-.592	-.592	0	%100
42	MP6C	Z	0	0	0	%100
43	MP2C	X	-.592	-.592	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-.717	-.717	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-.592	-.592	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	-.592	-.592	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	-.592	-.592	0	%100
52	MP1B	Z	0	0	0	%100
53	MP6B	X	-.592	-.592	0	%100
54	MP6B	Z	0	0	0	%100
55	MP2B	X	-.592	-.592	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	-.717	-.717	0	%100
58	MP3B	Z	0	0	0	%100
59	MP4B	X	-.592	-.592	0	%100
60	MP4B	Z	0	0	0	%100
61	MP5B	X	-.592	-.592	0	%100
62	MP5B	Z	0	0	0	%100
63	M80A	X	-.538	-.538	0	%100
64	M80A	Z	0	0	0	%100
65	M81A	X	-.538	-.538	0	%100
66	M81A	Z	0	0	0	%100
67	M88	X	-.672	-.672	0	%100
68	M88	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M95A	X	-.672	-.672	0	%100
70	M95A	Z	0	0	0	%100
71	M102	X	0	0	0	%100
72	M102	Z	0	0	0	%100
73	M91	X	-1.143	-1.143	0	%100
74	M91	Z	0	0	0	%100
75	M92	X	-.84	-.84	0	%100
76	M92	Z	0	0	0	%100
77	M93	X	-.84	-.84	0	%100
78	M93	Z	0	0	0	%100
79	M94A	X	-.797	-.797	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	-.797	-.797	0	%100
82	M95B	Z	0	0	0	%100
83	M96A	X	0	0	0	%100
84	M96A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.612	-.612	0	%100
2	M1	Z	-.353	-.353	0	%100
3	M2	X	-.027	-.027	0	%100
4	M2	Z	-.016	-.016	0	%100
5	FACE	X	-.45	-.45	0	%100
6	FACE	Z	-.26	-.26	0	%100
7	M17	X	-.386	-.386	0	%100
8	M17	Z	-.223	-.223	0	%100
9	M8	X	-.45	-.45	0	%100
10	M8	Z	-.26	-.26	0	%100
11	M9	X	-1.8	-1.8	0	%100
12	M9	Z	-1.039	-1.039	0	%100
13	M9A	X	-.692	-.692	0	%100
14	M9A	Z	-.399	-.399	0	%100
15	M10	X	-.692	-.692	0	%100
16	M10	Z	-.399	-.399	0	%100
17	M11	X	-.612	-.612	0	%100
18	M11	Z	-.353	-.353	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M15	X	-.027	-.027	0	%100
22	M15	Z	-.016	-.016	0	%100
23	M17A	X	-.108	-.108	0	%100
24	M17A	Z	-.062	-.062	0	%100
25	OVP	X	-.155	-.155	0	%100
26	OVP	Z	-.09	-.09	0	%100
27	MP1A	X	-.513	-.513	0	%100
28	MP1A	Z	-.296	-.296	0	%100
29	MP6A	X	-.513	-.513	0	%100
30	MP6A	Z	-.296	-.296	0	%100
31	MP2A	X	-.513	-.513	0	%100
32	MP2A	Z	-.296	-.296	0	%100
33	MP3A	X	-.621	-.621	0	%100
34	MP3A	Z	-.358	-.358	0	%100
35	MP4A	X	-.513	-.513	0	%100
36	MP4A	Z	-.296	-.296	0	%100
37	MP5A	X	-.513	-.513	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	MP5A	Z	-.296	-.296	0	%100
39	MP1C	X	-.513	-.513	0	%100
40	MP1C	Z	-.296	-.296	0	%100
41	MP6C	X	-.513	-.513	0	%100
42	MP6C	Z	-.296	-.296	0	%100
43	MP2C	X	-.513	-.513	0	%100
44	MP2C	Z	-.296	-.296	0	%100
45	MP3C	X	-.621	-.621	0	%100
46	MP3C	Z	-.358	-.358	0	%100
47	MP4C	X	-.513	-.513	0	%100
48	MP4C	Z	-.296	-.296	0	%100
49	MP5C	X	-.513	-.513	0	%100
50	MP5C	Z	-.296	-.296	0	%100
51	MP1B	X	-.513	-.513	0	%100
52	MP1B	Z	-.296	-.296	0	%100
53	MP6B	X	-.513	-.513	0	%100
54	MP6B	Z	-.296	-.296	0	%100
55	MP2B	X	-.513	-.513	0	%100
56	MP2B	Z	-.296	-.296	0	%100
57	MP3B	X	-.621	-.621	0	%100
58	MP3B	Z	-.358	-.358	0	%100
59	MP4B	X	-.513	-.513	0	%100
60	MP4B	Z	-.296	-.296	0	%100
61	MP5B	X	-.513	-.513	0	%100
62	MP5B	Z	-.296	-.296	0	%100
63	M80A	X	-.155	-.155	0	%100
64	M80A	Z	-.09	-.09	0	%100
65	M81A	X	-.621	-.621	0	%100
66	M81A	Z	-.358	-.358	0	%100
67	M88	X	-.194	-.194	0	%100
68	M88	Z	-.112	-.112	0	%100
69	M95A	X	-.776	-.776	0	%100
70	M95A	Z	-.448	-.448	0	%100
71	M102	X	-.194	-.194	0	%100
72	M102	Z	-.112	-.112	0	%100
73	M91	X	-.902	-.902	0	%100
74	M91	Z	-.521	-.521	0	%100
75	M92	X	-.902	-.902	0	%100
76	M92	Z	-.521	-.521	0	%100
77	M93	X	-.64	-.64	0	%100
78	M93	Z	-.369	-.369	0	%100
79	M94A	X	-.23	-.23	0	%100
80	M94A	Z	-.133	-.133	0	%100
81	M95B	X	-.92	-.92	0	%100
82	M95B	Z	-.531	-.531	0	%100
83	M96A	X	-.23	-.23	0	%100
84	M96A	Z	-.133	-.133	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.118	-.118	0	%100
2	M1	Z	-.204	-.204	0	%100
3	M2	X	-.047	-.047	0	%100
4	M2	Z	-.081	-.081	0	%100
5	FACE	X	-.779	-.779	0	%100
6	FACE	Z	-1.35	-1.35	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	M17	X	-.669	-.669	0	%100
8	M17	Z	-1.159	-1.159	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-.779	-.779	0	%100
12	M9	Z	-1.35	-1.35	0	%100
13	M9A	X	-.133	-.133	0	%100
14	M9A	Z	-.231	-.231	0	%100
15	M10	X	-.133	-.133	0	%100
16	M10	Z	-.231	-.231	0	%100
17	M11	X	-.471	-.471	0	%100
18	M11	Z	-.816	-.816	0	%100
19	M12	X	-.118	-.118	0	%100
20	M12	Z	-.204	-.204	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	0	0	0	%100
23	M17A	X	-.047	-.047	0	%100
24	M17A	Z	-.081	-.081	0	%100
25	OVP	X	-.269	-.269	0	%100
26	OVP	Z	-.466	-.466	0	%100
27	MP1A	X	-.296	-.296	0	%100
28	MP1A	Z	-.513	-.513	0	%100
29	MP6A	X	-.296	-.296	0	%100
30	MP6A	Z	-.513	-.513	0	%100
31	MP2A	X	-.296	-.296	0	%100
32	MP2A	Z	-.513	-.513	0	%100
33	MP3A	X	-.358	-.358	0	%100
34	MP3A	Z	-.621	-.621	0	%100
35	MP4A	X	-.296	-.296	0	%100
36	MP4A	Z	-.513	-.513	0	%100
37	MP5A	X	-.296	-.296	0	%100
38	MP5A	Z	-.513	-.513	0	%100
39	MP1C	X	-.296	-.296	0	%100
40	MP1C	Z	-.513	-.513	0	%100
41	MP6C	X	-.296	-.296	0	%100
42	MP6C	Z	-.513	-.513	0	%100
43	MP2C	X	-.296	-.296	0	%100
44	MP2C	Z	-.513	-.513	0	%100
45	MP3C	X	-.358	-.358	0	%100
46	MP3C	Z	-.621	-.621	0	%100
47	MP4C	X	-.296	-.296	0	%100
48	MP4C	Z	-.513	-.513	0	%100
49	MP5C	X	-.296	-.296	0	%100
50	MP5C	Z	-.513	-.513	0	%100
51	MP1B	X	-.296	-.296	0	%100
52	MP1B	Z	-.513	-.513	0	%100
53	MP6B	X	-.296	-.296	0	%100
54	MP6B	Z	-.513	-.513	0	%100
55	MP2B	X	-.296	-.296	0	%100
56	MP2B	Z	-.513	-.513	0	%100
57	MP3B	X	-.358	-.358	0	%100
58	MP3B	Z	-.621	-.621	0	%100
59	MP4B	X	-.296	-.296	0	%100
60	MP4B	Z	-.513	-.513	0	%100
61	MP5B	X	-.296	-.296	0	%100
62	MP5B	Z	-.513	-.513	0	%100
63	M80A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	M80A	Z	0	0	0	%100
65	M81A	X	-.269	-.269	0	%100
66	M81A	Z	-.466	-.466	0	%100
67	M88	X	0	0	0	%100
68	M88	Z	0	0	0	%100
69	M95A	X	-.336	-.336	0	%100
70	M95A	Z	-.582	-.582	0	%100
71	M102	X	-.336	-.336	0	%100
72	M102	Z	-.582	-.582	0	%100
73	M91	X	-.42	-.42	0	%100
74	M91	Z	-.727	-.727	0	%100
75	M92	X	-.571	-.571	0	%100
76	M92	Z	-.99	-.99	0	%100
77	M93	X	-.42	-.42	0	%100
78	M93	Z	-.727	-.727	0	%100
79	M94A	X	0	0	0	%100
80	M94A	Z	0	0	0	%100
81	M95B	X	-.398	-.398	0	%100
82	M95B	Z	-.69	-.69	0	%100
83	M96A	X	-.398	-.398	0	%100
84	M96A	Z	-.69	-.69	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M8	Y	-.801	-14.539	5.133	6.673
2	M8	Y	-14.539	-20.046	6.673	8.213
3	M8	Y	-20.046	-14.743	8.213	9.753
4	M8	Y	-14.743	-8.107	9.753	11.293
5	M8	Y	-8.107	-.801	11.293	12.833
6	M9	Y	-.559	-5.405	0	1.54
7	M9	Y	-5.405	-12.569	1.54	3.08
8	M9	Y	-12.569	-18.935	3.08	4.62
9	M9	Y	-18.935	-17.394	4.62	6.16
10	M9	Y	-17.394	-10.552	6.16	7.7
11	M9	Y	-4.009	-9.331	6.417	7.7
12	M9	Y	-9.331	-13.677	7.7	8.983
13	M9	Y	-13.677	-12.035	8.983	10.267
14	M9	Y	-14.654	-9.485	10.267	11.55
15	M9	Y	-9.485	-5.53	11.55	12.833
16	M10	Y	-.147	-12.333	0	1.625
17	M10	Y	-12.333	-24.519	1.625	3.25
18	M10	Y	-8.425	-13.328	2.708	3.611
19	M10	Y	-13.328	-23.044	3.611	4.514
20	M10	Y	-23.044	-37.573	4.514	5.417
21	M15	Y	-4.707	-17.228	0	.409
22	M15	Y	-17.228	-29.749	.409	.818
23	M9A	Y	-12.666	-12.666	0	2.979
24	M10	Y	-12.666	-12.666	2.438	5.417
25	M8	Y	-5.531	-9.486	0	1.283
26	M8	Y	-9.486	-14.652	1.283	2.567
27	M8	Y	-12.035	-13.675	2.567	3.85
28	M8	Y	-13.675	-9.329	3.85	5.133
29	M8	Y	-9.329	-4.012	5.133	6.417
30	M9A	Y	-24.52	-12.334	2.167	3.792
31	M9A	Y	-12.334	-.147	3.792	5.417
32	M9A	Y	-37.578	-23.043	0	.903

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	M9A	Y	-23.043	-13.326	.903	1.806
34	M9A	Y	-13.326	-8.429	1.806	2.708
35	M17A	Y	-29.756	-17.228	0	.409
36	M17A	Y	-17.228	-4.7	.409	.818

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M8	Y	-.881	-15.986	5.133	6.673
2	M8	Y	-15.986	-22.041	6.673	8.213
3	M8	Y	-22.041	-16.21	8.213	9.753
4	M8	Y	-16.21	-8.914	9.753	11.293
5	M8	Y	-8.914	-.881	11.293	12.833
6	M9	Y	-.615	-5.943	0	1.54
7	M9	Y	-5.943	-13.821	1.54	3.08
8	M9	Y	-13.821	-20.82	3.08	4.62
9	M9	Y	-20.82	-19.126	4.62	6.16
10	M9	Y	-19.126	-11.603	6.16	7.7
11	M9	Y	-4.408	-10.259	6.417	7.7
12	M9	Y	-10.259	-15.039	7.7	8.983
13	M9	Y	-15.039	-13.233	8.983	10.267
14	M9	Y	-16.113	-10.429	10.267	11.55
15	M9	Y	-10.429	-6.081	11.55	12.833
16	M10	Y	-.161	-13.561	0	1.625
17	M10	Y	-13.561	-26.96	1.625	3.25
18	M10	Y	-9.264	-14.655	2.708	3.611
19	M10	Y	-14.655	-25.339	3.611	4.514
20	M10	Y	-25.339	-41.314	4.514	5.417
21	M15	Y	-5.176	-18.943	0	.409
22	M15	Y	-18.943	-32.71	.409	.818
23	M9A	Y	-13.927	-13.927	0	2.979
24	M10	Y	-13.927	-13.927	2.438	5.417
25	M8	Y	-6.082	-10.43	0	1.283
26	M8	Y	-10.43	-16.111	1.283	2.567
27	M8	Y	-13.233	-15.036	2.567	3.85
28	M8	Y	-15.036	-10.258	3.85	5.133
29	M8	Y	-10.258	-4.411	5.133	6.417
30	M9A	Y	-26.961	-13.562	2.167	3.792
31	M9A	Y	-13.562	-.162	3.792	5.417
32	M9A	Y	-41.319	-25.337	0	.903
33	M9A	Y	-25.337	-14.653	.903	1.806
34	M9A	Y	-14.653	-9.268	1.806	2.708
35	M17A	Y	-32.718	-18.943	0	.409
36	M17A	Y	-18.943	-5.168	.409	.818

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M2	Y	-.302	-.302	.357	.722
2	M17	Y	-.054	-.314	0	2.064
3	M17	Y	-.314	-.309	2.064	4.128
4	M17	Y	-.309	-.044	4.128	6.192
5	M8	Y	-.006	-.108	5.133	6.673
6	M8	Y	-.108	-.309	6.673	8.213
7	M8	Y	-.309	-.372	8.213	9.753
8	M8	Y	-.372	-.202	9.753	11.293
9	M8	Y	-.202	-.006	11.293	12.833
10	M9	Y	-.02	-.165	0	1.283

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	M9	Y	-.165	-.288	1.283	2.567
12	M9	Y	-.288	-.388	2.567	3.85
13	M9	Y	-.388	-.303	3.85	5.133
14	M9	Y	-.303	-.02	5.133	6.417
15	M17	Y	-.198	-.198	.17	1.17
16	M9	Y	-.035	-.252	6.417	7.7
17	M9	Y	-.252	-.419	7.7	8.983
18	M9	Y	-.419	-.325	8.983	10.267
19	M9	Y	-.325	-.091	10.267	11.55
20	M9	Y	-.091	-.011	11.55	12.833
21	M10	Y	-.299	-.252	0	2.708
22	FACE	Y	-.022	-.17	0	1.283
23	FACE	Y	-.17	-.345	1.283	2.567
24	FACE	Y	-.345	-.228	2.567	3.85
25	FACE	Y	-.228	-.009	3.85	5.133
26	M9	Y	-.055	-.055	10.267	12.833
27	M10	Y	-.516	-.055	2.708	5.417
28	M15	Y	-.055	-.055	.076	.818
29	M9A	Y	-.315	-.315	0	2.979
30	M10	Y	-.315	-.315	2.438	5.417
31	M17	Y	-.198	-.198	5.71	6.71
32	M8	Y	-.011	-.091	0	1.283
33	M8	Y	-.091	-.325	1.283	2.567
34	M8	Y	-.325	-.419	2.567	3.85
35	M8	Y	-.419	-.252	3.85	5.133
36	M8	Y	-.252	-.035	5.133	6.417
37	M9A	Y	-.46	-.091	2.708	5.417
38	FACE	Y	-.009	-.228	7.7	8.983
39	FACE	Y	-.228	-.345	8.983	10.267
40	FACE	Y	-.345	-.17	10.267	11.55
41	FACE	Y	-.17	-.022	11.55	12.833
42	M8	Y	-.055	-.055	0	2.567
43	M9A	Y	-.516	-.055	0	2.708
44	M17A	Y	-.055	-.055	0	.742

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M2	Z	-.755	-.755	.357	.722
2	M17	Z	-.136	-.784	0	2.064
3	M17	Z	-.784	-.773	2.064	4.128
4	M17	Z	-.773	-.109	4.128	6.192
5	M8	Z	-.016	-.269	5.133	6.673
6	M8	Z	-.269	-.773	6.673	8.213
7	M8	Z	-.773	-.929	8.213	9.753
8	M8	Z	-.929	-.504	9.753	11.293
9	M8	Z	-.504	-.016	11.293	12.833
10	M9	Z	-.051	-.413	0	1.283
11	M9	Z	-.413	-.719	1.283	2.567
12	M9	Z	-.719	-.971	2.567	3.85
13	M9	Z	-.971	-.758	3.85	5.133
14	M9	Z	-.758	-.051	5.133	6.417
15	M17	Z	-.494	-.494	.17	1.17
16	M9	Z	-.088	-.631	6.417	7.7
17	M9	Z	-.631	-1.049	7.7	8.983
18	M9	Z	-1.049	-.812	8.983	10.267
19	M9	Z	-.812	-.228	10.267	11.55

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	M9	Z	-.228	-.027	11.55	12.833
21	M10	Z	-.746	-.631	0	2.708
22	FACE	Z	-.056	-.426	0	1.283
23	FACE	Z	-.426	-.863	1.283	2.567
24	FACE	Z	-.863	-.569	2.567	3.85
25	FACE	Z	-.569	-.023	3.85	5.133
26	M9	Z	-.138	-.138	10.267	12.833
27	M10	Z	-1.29	-.138	2.708	5.417
28	M15	Z	-.137	-.137	.076	.818
29	M9A	Z	-.788	-.788	0	2.979
30	M10	Z	-.788	-.788	2.438	5.417
31	M17	Z	-.495	-.495	5.71	6.71
32	M8	Z	-.027	-.228	0	1.283
33	M8	Z	-.228	-.812	1.283	2.567
34	M8	Z	-.812	-1.049	2.567	3.85
35	M8	Z	-1.049	-.63	3.85	5.133
36	M8	Z	-.63	-.088	5.133	6.417
37	M9A	Z	-1.149	-.228	2.708	5.417
38	FACE	Z	-.023	-.569	7.7	8.983
39	FACE	Z	-.569	-.863	8.983	10.267
40	FACE	Z	-.863	-.426	10.267	11.55
41	FACE	Z	-.426	-.055	11.55	12.833
42	M8	Z	-.138	-.138	0	2.567
43	M9A	Z	-1.29	-.138	0	2.708
44	M17A	Z	-.137	-.137	0	.742

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M2	X	.755	.755	.357	.722
2	M17	X	.136	.784	0	2.064
3	M17	X	.784	.773	2.064	4.128
4	M17	X	.773	.109	4.128	6.192
5	M8	X	.016	.269	5.133	6.673
6	M8	X	.269	.773	6.673	8.213
7	M8	X	.773	.929	8.213	9.753
8	M8	X	.929	.504	9.753	11.293
9	M8	X	.504	.016	11.293	12.833
10	M9	X	.051	.413	0	1.283
11	M9	X	.413	.719	1.283	2.567
12	M9	X	.719	.971	2.567	3.85
13	M9	X	.971	.758	3.85	5.133
14	M9	X	.758	.051	5.133	6.417
15	M17	X	.494	.494	.17	1.17
16	M9	X	.088	.631	6.417	7.7
17	M9	X	.631	1.049	7.7	8.983
18	M9	X	1.049	.812	8.983	10.267
19	M9	X	.812	.228	10.267	11.55
20	M9	X	.228	.027	11.55	12.833
21	M10	X	.746	.631	0	2.708
22	FACE	X	.056	.426	0	1.283
23	FACE	X	.426	.863	1.283	2.567
24	FACE	X	.863	.569	2.567	3.85
25	FACE	X	.569	.023	3.85	5.133
26	M9	X	.138	.138	10.267	12.833
27	M10	X	1.29	.138	2.708	5.417
28	M15	X	.137	.137	.076	.818

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	M9A	X	.788	.788	0	2.979
30	M10	X	.788	.788	2.438	5.417
31	M17	X	.495	.495	5.71	6.71
32	M8	X	.027	.228	0	1.283
33	M8	X	.228	.812	1.283	2.567
34	M8	X	.812	1.049	2.567	3.85
35	M8	X	1.049	.63	3.85	5.133
36	M8	X	.63	.088	5.133	6.417
37	M9A	X	1.149	.228	2.708	5.417
38	FACE	X	.023	.569	7.7	8.983
39	FACE	X	.569	.863	8.983	10.267
40	FACE	X	.863	.426	10.267	11.55
41	FACE	X	.426	.055	11.55	12.833
42	M8	X	.138	.138	0	2.567
43	M9A	X	1.29	.138	0	2.708
44	M17A	X	.137	.137	0	.742

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N29A	N28	N26	N27	Y	A-B	-.009
2	N29A	N30	N29B	N32	Y	A-B	-.009
3	N32	N29B	N20	N33	Y	C-D	-.009
4	N29B	N37	N21	N20	Y	A-B	-.009
5	N33A	N28	N37A	N37	Y	A-B	-.009
6	N37	N37A	N36A	N21	Y	C-D	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N29A	N28	N26	N27	Y	A-B	-.01
2	N29A	N30	N29B	N32	Y	A-B	-.01
3	N32	N29B	N20	N33	Y	C-D	-.01
4	N29B	N37	N21	N20	Y	A-B	-.01
5	N33A	N28	N37A	N37	Y	A-B	-.01
6	N37	N37A	N36A	N21	Y	C-D	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N29A	N28	N26	N27	Y	Two Way	-.000224
2	N29A	N30	N29B	N32	Y	Two Way	-.000224
3	N32	N29B	N20	N33	Y	Two Way	-.000224
4	N29B	N37	N21	N20	Y	Two Way	-.000224
5	N33A	N28	N37A	N37	Y	Two Way	-.000224
6	N37	N37A	N36A	N21	Y	Two Way	-.000224

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N29A	N28	N26	N27	Z	Two Way	-.00056
2	N29A	N30	N29B	N32	Z	Two Way	-.00056
3	N32	N29B	N20	N33	Z	Two Way	-.00056
4	N29B	N37	N21	N20	Z	Two Way	-.00056
5	N33A	N28	N37A	N37	Z	Two Way	-.00056
6	N37	N37A	N36A	N21	Z	Two Way	-.00056

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N29A	N28	N26	N27	X	Two Way	.00056
2	N29A	N30	N29B	N32	X	Two Way	.00056
3	N32	N29B	N20	N33	X	Two Way	.00056
4	N29B	N37	N21	N20	X	Two Way	.00056
5	N33A	N28	N37A	N37	X	Two Way	.00056
6	N37	N37A	N36A	N21	X	Two Way	.00056

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	N2	max	1120.847	10	1223.453	19	4968.839	1	.541	7	.629	4	.433	5
2		min	-1120.395	4	-34.972	1	-4822.128	7	-.746	1	-.632	10	-.466	11
3	N22A	max	4380.65	9	691.318	3	2239.64	3	.114	9	1.015	12	.786	9
4		min	-4254.257	3	-534.694	9	-2443.419	9	-.535	39	-1.39	6	-.352	3
5	N24A	max	4299.563	11	703.177	11	2233.88	11	.157	5	1.23	8	.357	11
6		min	-4330.135	5	-515.002	5	-2371.95	5	-.565	35	-.839	2	-.758	5
7	N171	max	45.17	10	2617.273	13	767.608	7	0	75	0	12	0	6
8		min	-45.2	4	-575.749	7	-3418.575	13	0	1	0	6	0	12
9	N174A	max	631.876	3	2890.735	21	1891.61	21	0	6	0	12	0	12
10		min	-3276.632	21	-547.326	3	-365.015	3	0	12	0	6	0	6
11	N177	max	3112.748	17	2748.86	17	1796.87	17	0	8	0	8	0	8
12		min	-641.825	11	-555.975	11	-370.837	11	0	2	0	2	0	2
13	Totals:	max	5339.099	10	8144.296	18	5307.383	1						
14		min	-5339.098	4	2759.426	75	-5307.384	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	HSS4X4X4	.163	3.958	1	.063	0	z	10	117957.5...	139518	16.181	16.181	1....	H1-1b
2	M2	PL1/2X12_H...	.153	.409	13	.145	.409	y	13	222159.1...	283500	2.954	103.359	1....	H1-1b
3	FACE	C5X6.7	.242	7.486	11	.426	7.62	y	2	4477.095	63828	1.604	9.237	2....	H1-1b
4	M17	C5X6.7	.291	3.44	24	.057	3.44	y	24	15577.11	63828	1.604	9.585	1....	H1-1b
5	M8	C5X6.7	.253	.668	8	.268	.802	y	8	4477.095	63828	1.604	9.272	2....	H1-1b
6	M9	C5X6.7	.275	12.165	6	.259	.802	y	4	4477.095	63828	1.604	9.585	2....	H1-1b
7	M9A	L4X3X4	.452	2.934	20	.034	2.934	z	24	31758.543	54756	1.844	4.813	1....	H2-1
8	M10	L4X3X4	.442	2.483	18	.033	2.483	z	14	31758.543	54756	1.844	4.813	1....	H2-1
9	M11	HSS4X4X4	.174	3.958	9	.057	0	z	6	117957.5...	139518	16.181	16.181	1....	H1-1b
10	M12	HSS4X4X4	.170	3.958	5	.055	0	z	8	117957.5...	139518	16.181	16.181	1....	H1-1b
11	M15	PL1/2X12_H...	.172	.409	21	.155	.409	y	20	222159.1...	283500	2.954	103.359	1....	H1-1b
12	M17A	PL1/2X12_H...	.165	.409	17	.151	0	y	17	222159.1...	283500	2.954	103.359	1....	H1-1b
13	OVP	PIPE_2.5	.237	4.036	4	.086	4.557		10	14558.792	50715	3.596	3.596	2....	H1-1b
14	MP1A	PIPE_2.0	.280	6.417	4	.070	5.979		3	17855.085	32130	1.872	1.872	1....	H1-1b
15	MP6A	PIPE_2.0	.301	6.417	10	.081	6.417		11	17855.085	32130	1.872	1.872	1....	H1-1b
16	MP2A	PIPE_2.0	.327	6.333	4	.089	6.333		3	14916.096	32130	1.872	1.872	1....	H1-1b
17	MP3A	PIPE_2.5	.326	6.333	4	.114	6.333		4	30038.461	50715	3.596	3.596	1....	H1-1b
18	MP4A	PIPE_2.0	.370	6.333	10	.089	6.333		9	14916.096	32130	1.872	1.872	1....	H1-1b
19	MP5A	PIPE_2.0	.329	6.333	10	.098	5.917		11	14916.096	32130	1.872	1.872	1....	H1-1b
20	MP1C	PIPE_2.0	.268	6.417	12	.072	5.979		11	17855.085	32130	1.872	1.872	2....	H1-1b
21	MP6C	PIPE_2.0	.276	6.417	6	.085	6.417		7	17855.085	32130	1.872	1.872	1....	H1-1b
22	MP2C	PIPE_2.0	.304	6.333	12	.068	6.333		11	14916.096	32130	1.872	1.872	1....	H1-1b
23	MP3C	PIPE_2.5	.284	6.333	12	.095	6.333		1	30038.461	50715	3.596	3.596	1....	H1-1b
24	MP4C	PIPE_2.0	.328	6.333	6	.082	6.333		4	14916.096	32130	1.872	1.872	1....	H1-1b
25	MP5C	PIPE_2.0	.293	6.333	6	.082	5.917		7	14916.096	32130	1.872	1.872	1....	H1-1b
26	MP1B	PIPE_2.0	.272	6.417	8	.080	5.979		7	17855.085	32130	1.872	1.872	1....	H1-1b
27	MP6B	PIPE_2.0	.287	6.417	2	.081	6.417		3	17855.085	32130	1.872	1.872	2....	H1-1b
28	MP2B	PIPE_2.0	.311	6.333	8	.068	6.333		7	14916.096	32130	1.872	1.872	1....	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
29	MP3B	PIPE_2.5	.302	6.333	8	.097	6.333		9	30038.461	50715	3.596	3.596	2....	H1-1b
30	MP4B	PIPE_2.0	.331	6.333	2	.084	6.333		12	14916.096	32130	1.872	1.872	1....	H1-1b
31	MP5B	PIPE_2.0	.306	6.333	2	.080	5.917		3	14916.096	32130	1.872	1.872	1....	H1-1b
32	M80A	PIPE_2.5	.251	8.464	6	.074	4.557		6	14558.792	50715	3.596	3.596	2....	H1-1b
33	M81A	PIPE_2.5	.252	8.464	2	.077	7.292		7	14558.792	50715	3.596	3.596	2....	H1-1b
34	M88	L3X3X4	.280	2.029	7	.031	0	z	6	42590.691	46656	1.688	3.756	2....	H2-1
35	M95A	L3X3X4	.271	0	7	.029	0	z	8	42590.691	46656	1.688	3.756	2....	H2-1
36	M102	L3X3X4	.231	0	3	.025	2.029	z	4	42590.691	46656	1.688	3.756	2....	H2-1
37	M91	LL3x3x3x6	.093	0	13	.003	5	z	4	46390.788	70632	6.362	3.751	1	H1-1b*
38	M92	LL3x3x3x6	.103	0	21	.003	0	z	12	46390.788	70632	6.362	3.751	1	H1-1b*
39	M93	LL3x3x3x6	.098	0	17	.003	0	z	2	46390.788	70632	6.362	3.751	1	H1-1b*
40	M94A	L3X3X4	.228	0	1	.013	0	z	6	32566.236	46656	1.688	3.756	2....	H2-1
41	M95B	L3X3X4	.212	4.029	1	.012	0	z	8	32566.236	46656	1.688	3.756	2....	H2-1
42	M96A	L3X3X4	.224	0	5	.013	0	z	10	32566.236	46656	1.688	3.756	2....	H2-1

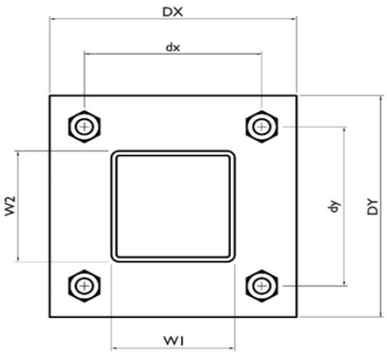
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	12/13/2023
Site Name:	MILFORD CT		
MDG #:	5000121962		
Fuze ID #:	16231875	Page:	1

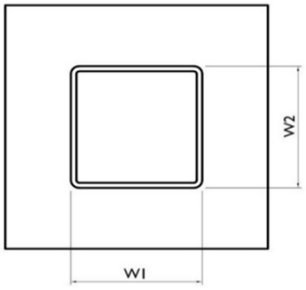
Version 2.00

I. Mount-to-Tower Connection Check

Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	6
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	2.2
Required Shear Strength / bolt (kips):	0.2
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	**10.7%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	8
Plate Height, D_y (in):	8
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.25
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.75
Length of Yield Line, L_y (in):	5.85
Bolt Eccentricity, e (in):	1.65
M_u (kip-in):	3.64
Phi*M_n (kip-in):	26.65
Plate Bending Utilization:	**13.7%**



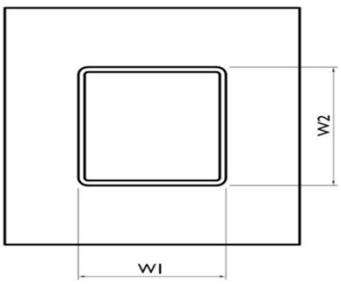
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	12/13/2023
Site Name:	MILFORD CT		
PSLC #:	5000121962		
Fuze ID #:	16231875	Page:	2

Version 2.00

Tower Connection Weld Checks	Yes

Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Weld Size (1/16 in):	4
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	16.00
Z_x (in^3/in):	21.33
Z_y (in^3/in):	21.33
J_p (in^4/in):	85.33
c_x (in)	2.25
c_y (in)	2.25
Required combined strength (kip/in):	0.61
Weld Capacity (kip/in):	5.57
Weld Utilization:	**10.9%**



MOUNT MODIFICATION DRAWINGS
EXISTING 12.83' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 806359

CARRIER SITE NAME: MILFORD CT
CARRIER SITE NUMBER: 5000121962
FUZE ID: 16231875

423 ORONOQUE RD
MILFORD, CT 06460
NEW HAVEN COUNTY

LATITUDE: 41.237875° N
LONGITUDE: 73.086219° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 167.39'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .202
LONG TERM MCER GROUND MOTION, S_1 = .053

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856-797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10215323
VZW MDG#: 5000121962
ANALYSIS DATE: 12/13/2023

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBOM-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

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SCALE: AS SHOWN
JOB NUMBER: 21777070

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
1	12/13/23	ISSUED FOR CONSTRUCTION	SC	DX
0	01/24/22	ISSUED FOR CONSTRUCTION	SC	EA

STATE OF CONNECTICUT
DEJIAN XU
No. 33733
LICENSED PROFESSIONAL ENGINEER

12/15/2023

MASER CONSULTING ... C.O.A. #: JPC.0000131
JPC.0000131

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

SITE NAME:

MILFORD CT
467373

423 ORONOQUE RD
MILFORD, CT 06460
NEW HAVEN CT

Colliers Engineering & Design

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE: TITLE SHEET

SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	504	504
1		VZWSMART-PLK2	PLATFORM SUPPORT RAIL MODIFICATION BRACING	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	211	211
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	291	291
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
6		VZWSMART-MSK1	CROSSOVER PLATE		14	84
3		VZWSMART-P40-278-096	96" LONG, PIPE 2.5 SCH40 (2.875" OD X 0.203" THK)		46	138
9		VZWSMART-P40-238-096	96" LONG, PIPE 2 SCH40 (2.375" OD X 0.154" THK)		30	270

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
-	-	-	1/2" DIA. U-BOLTS			
					TOTAL:	1648

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE

CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC

CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION

CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM

SABRE INDUSTRIES, INC.

CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1

CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

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1	12/13/23	ISSUED FOR CONSTRUCTION	SC	DX
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DEJIAN XU
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STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: SBOM-1

PROJECT NOTES

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

GENERAL NOTES

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

STRUCTURAL STEEL

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

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

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

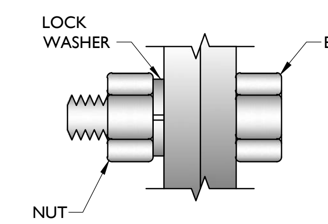
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

BOLT SCHEDULE (IN.)

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

WORKABLE GAGES (IN.)

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

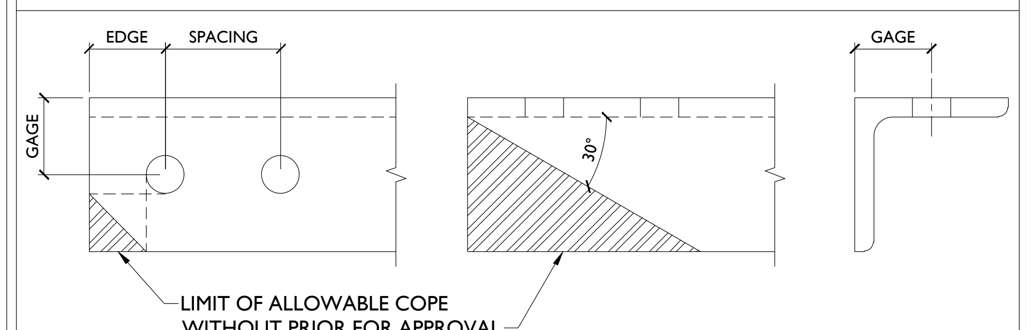


TYP. BOLT ASSEMBLY

NOTES:

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

ALLOWABLE COPING



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1	12/13/23	ISSUED FOR CONSTRUCTION	SC	DX
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STATE OF CONNECTICUT DEJIAN XU No. 33733 LICENSED PROFESSIONAL ENGINEER

12/15/2023

MASER CONSULTING C.O.A. #: JPC.0000131
JPC.0000131

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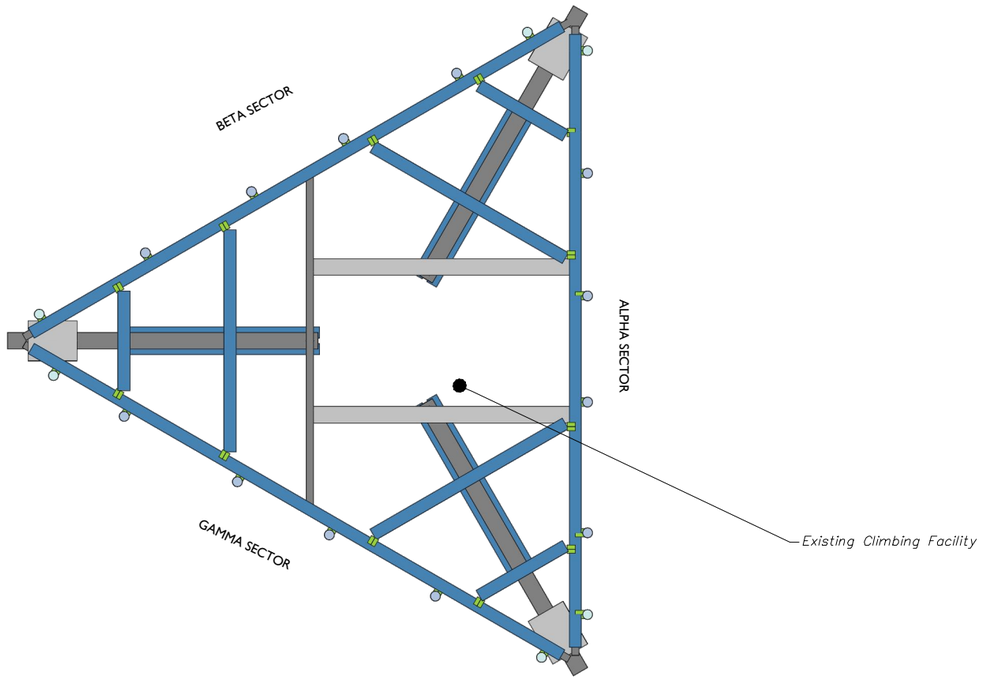
SHEET TITLE : MODIFICATION NOTES

SHEET NUMBER : SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.

CLIMBING FACILITY PHOTO

STRUCTURAL NOTES:

1. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION, INSTALL NEW WIRE ROPE AND ENSURE IT DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.

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

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SHEET TITLE :

CLIMBING FACILITY DETAIL

SHEET NUMBER :

SCF-1

LEGEND:

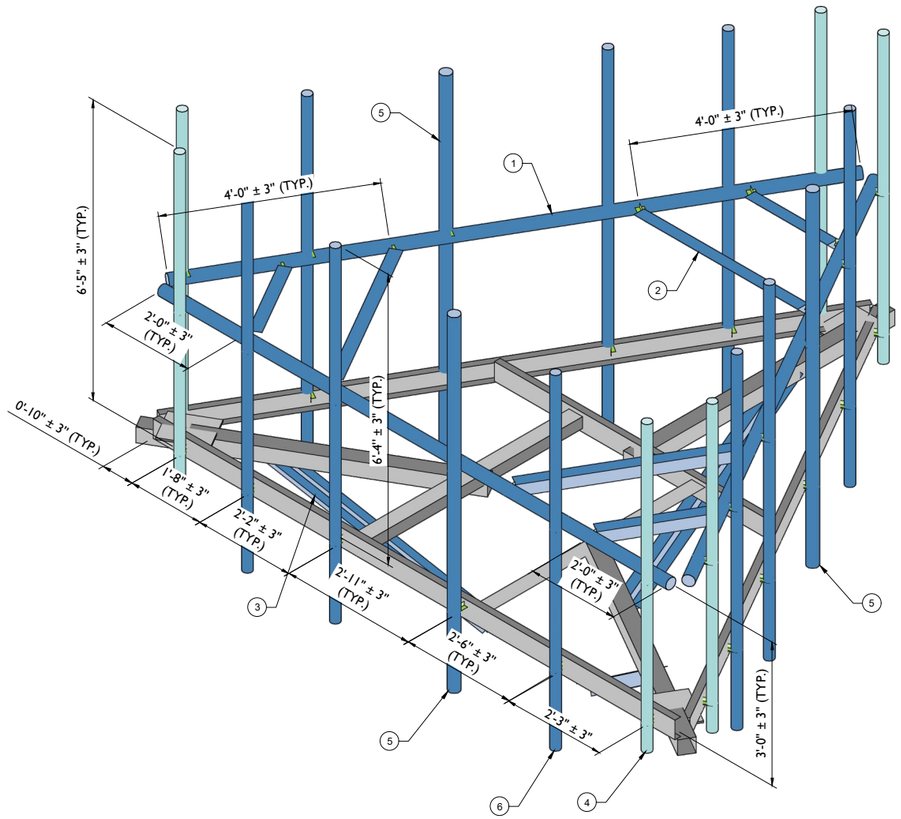
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	103'-0"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.
2		1	PROPOSED PLATFORM SUPPORT RAIL BRACING KIT (PART #: VZWSMART-PLK2)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1
3		1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
4		6	RELOCATED MOUNT PIPE	CONNECT RELOCATED MOUNT PIPE TO EXISTING CHANNEL HORIZONTAL WITH (2) 1/2" DIA. U-BOLTS. CONNECT TO SUPPORT RAIL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1). CONTRACTOR TO DRILL HOLES AS REQUIRED.
5		3	PROPOSED 96" LONG, P2 1/2 STD (PART #: VZWSMART-P40-278X096)	CONNECT NEW MOUNT PIPE TO EXISTING CHANNEL HORIZONTAL WITH (2) 1/2" DIA. U-BOLTS.
6		9	PROPOSED 96" LONG, P2 STD (PART #: VZWSMART-P40-238X096)	CONNECT NEW MOUNT PIPE TO EXISTING CHANNEL HORIZONTAL WITH (2) 1/2" DIA. U-BOLTS. CONTRACTOR TO DRILL HOLES AS REQUIRED.

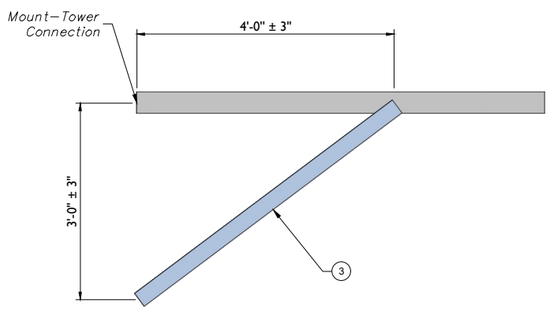
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
CONTRACTOR SHALL REMOVE EXISTING SUPPORT RAIL ANGLES, CORNER PIPES, MOUNT PIPES (EXCEPT RELOCATED MOUNT PIPES) AND INTERMEDIATE HORIZONTAL ANGLES PRIOR TO INSTALLATION OF PROPOSED MODIFICATION KITS.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

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SHEET TITLE :

MODIFICATION DETAILS

SHEET NUMBER :

SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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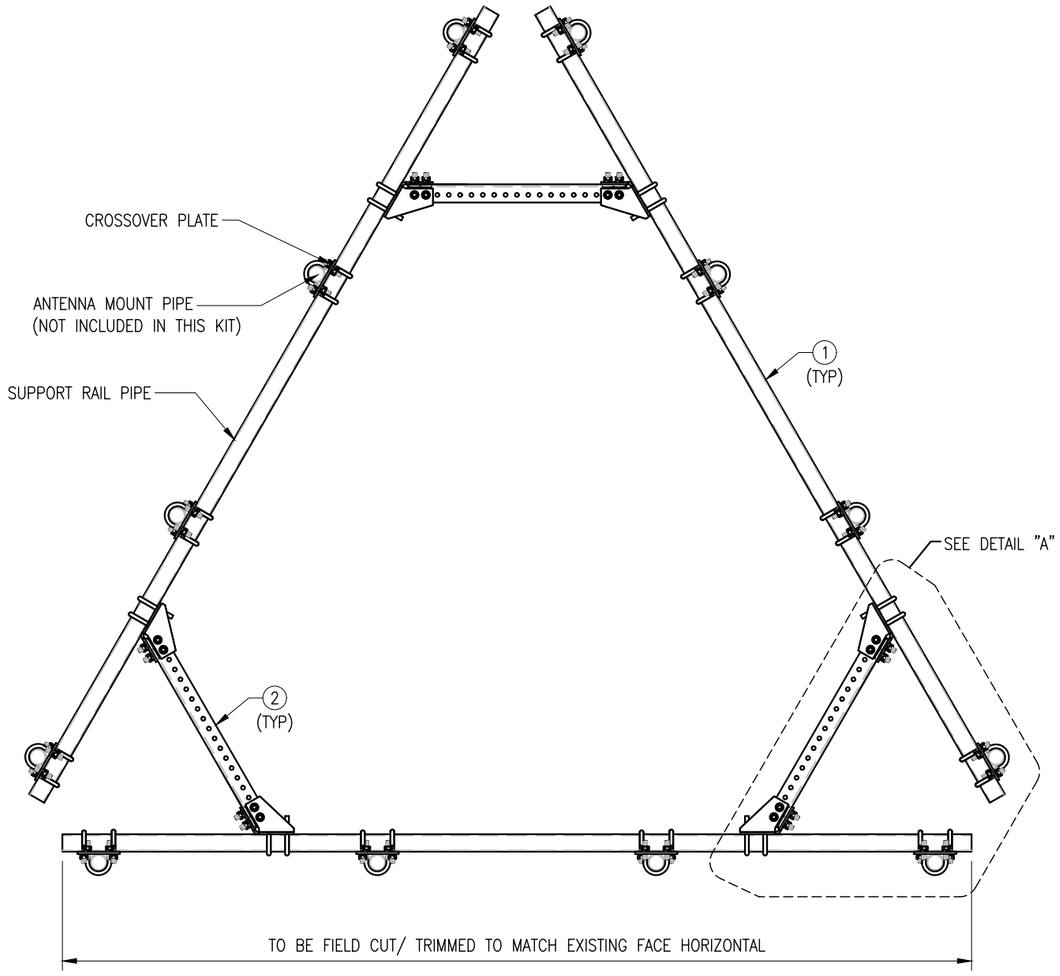
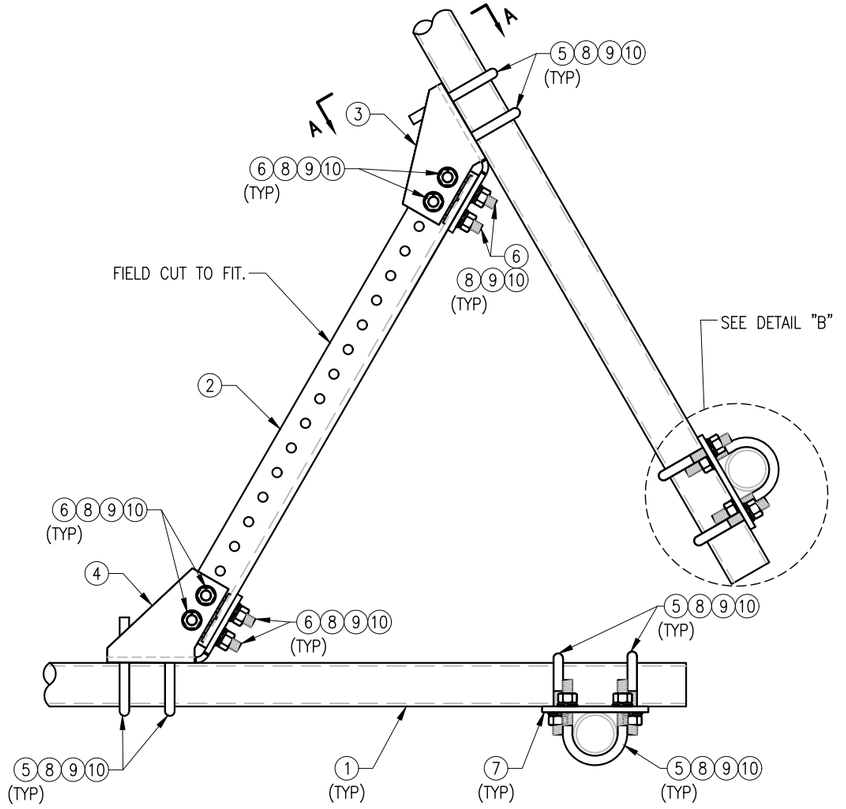
SHEET TITLE : MOUNT PHOTOS

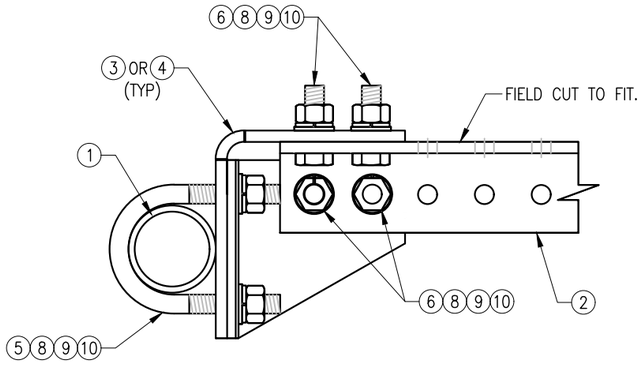
SHEET NUMBER : SS-2



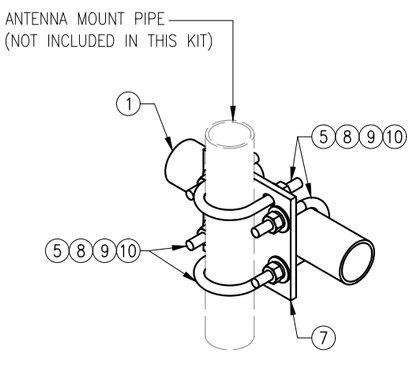
PLAN VIEW



DETAIL "A"



SECTION "A–A"



DETAIL "B"

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

VZW SMART–PLK1 (SUPPORT RAIL KIT)

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

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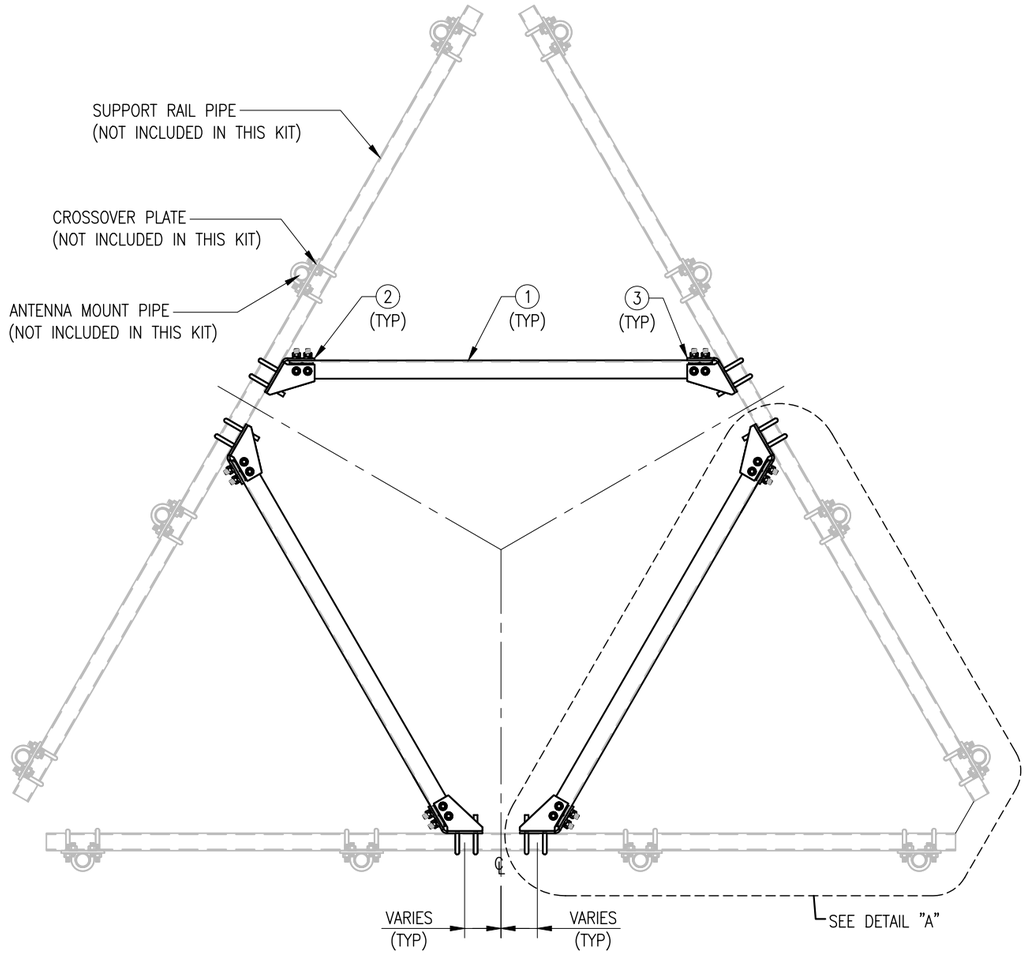
DRAWN BY: H.R | CHECKED BY: HMA

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

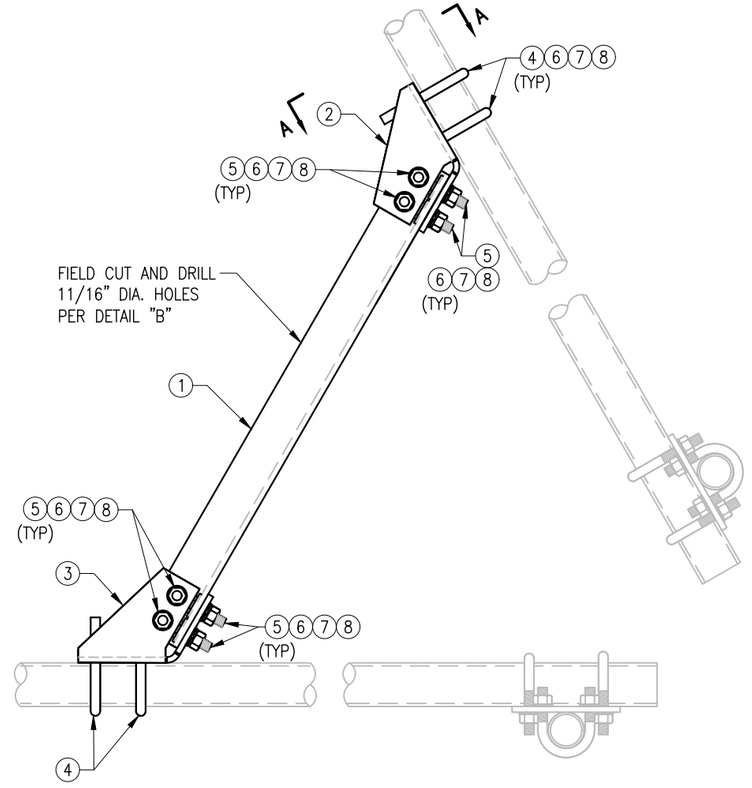
SHEET TITLE:
VZWSMART–PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART–PLK1

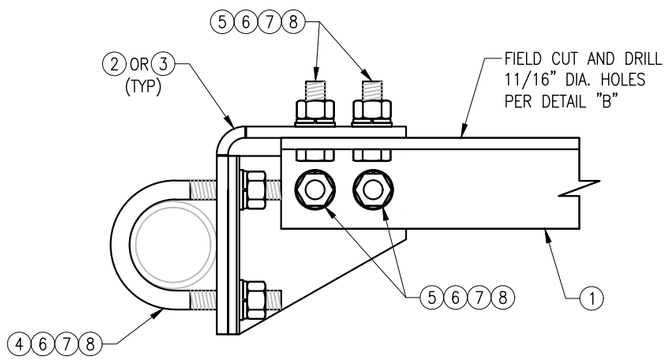
REV #: 0



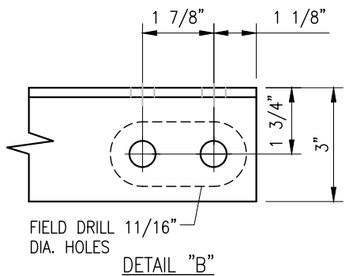
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

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

VZWSMART-PLK2 (PLATFORM SUPPORT RAIL BRACING)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	L3325-8	L 3" X 3" X 1/4" X 8'-0" A36	PLK2-F1	120
2	3	CBP-L	CORNER BENT PLATE BRACKET	PLK2-F2	28
3	3	CBP-R	CORNER BENT PLATE BRACKET	PLK2-F2	28
4	12	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	16
5	24	---	BOLT 5/8" X 2" A325 W/HHN & LKW EA.	---	9
6	48	FW-625	5/8" HDG USS FLAT WASHER	---	4
7	48	LW-625	5/8" HDG LOCK WASHER	---	1
8	48	NUT-625	5/8" HDG HEX NUT	---	6
				GALVANIZED WT	211

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DRAWN BY: CH/HR | CHECKED BY: HMA/KW

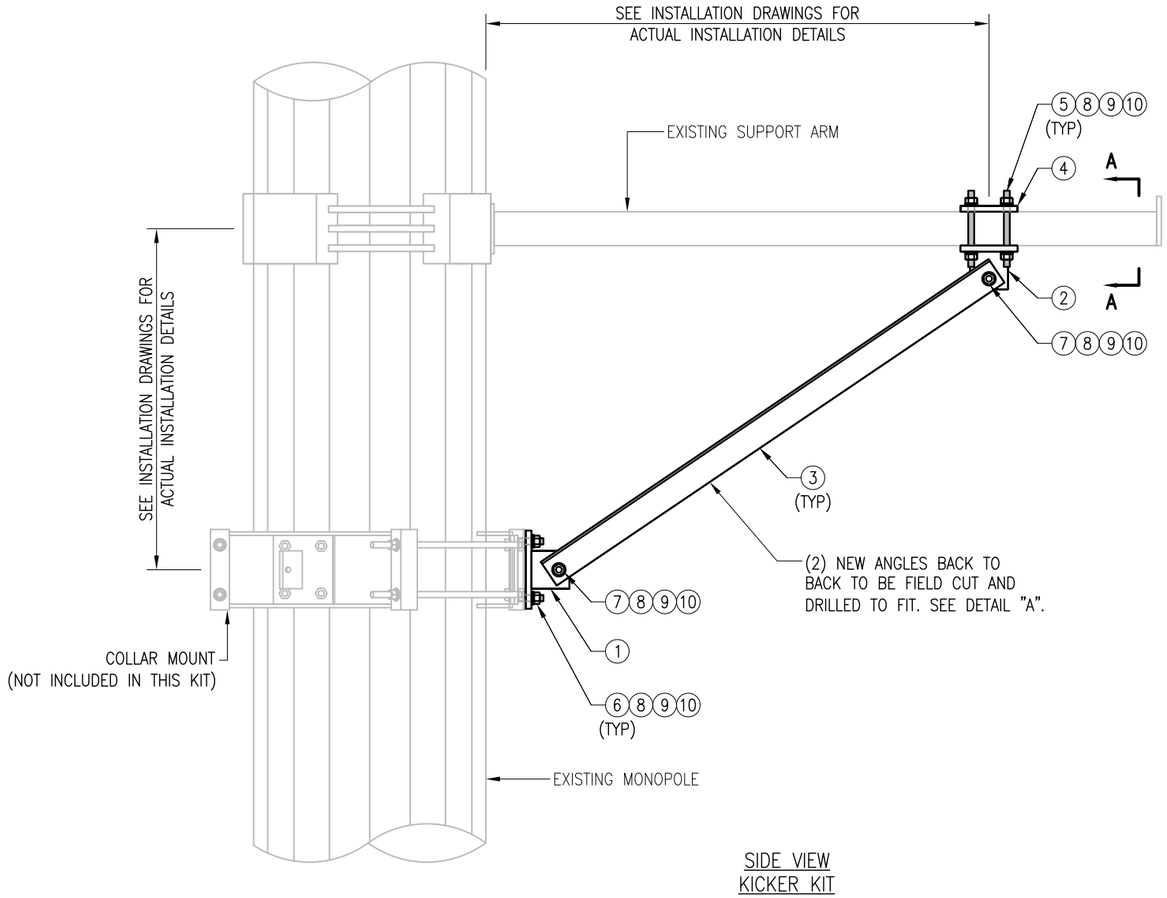
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	CH/HR	05/08/20

SHEET TITLE:
VZWSMART-PLK2
PLATFORM SUPPORT
RAIL KIT

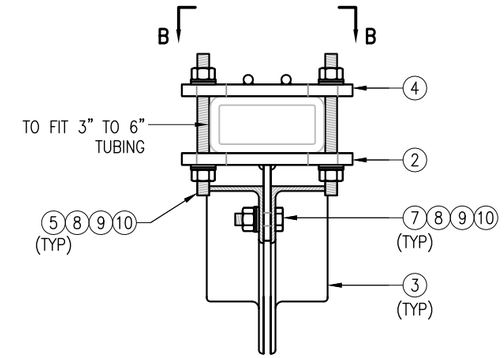
SHEET NUMBER: VZWSMART-PLK2

REV #: 0

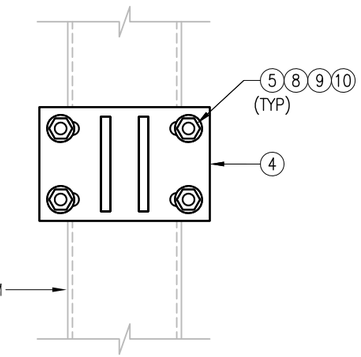
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



SIDE VIEW
KICKER KIT

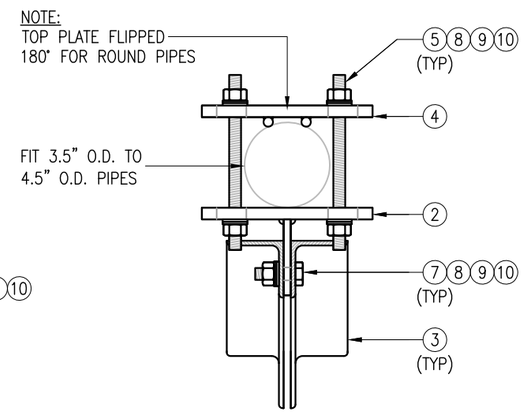


SECTION "A–A"
RECT. HSS MOUNTING

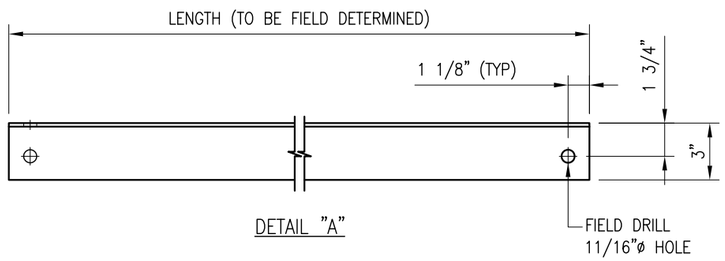


SECTION "B–B"

NOTE:
TOP PLATE FLIPPED 180° FOR ROUND PIPES



SECTION "A–A"
ROUND PIPE MOUNTING



DETAIL "A"

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

VZWSMART–PLK5 (KICKER KIT)

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

VzW
SMART Tool©
Vendor

verizon

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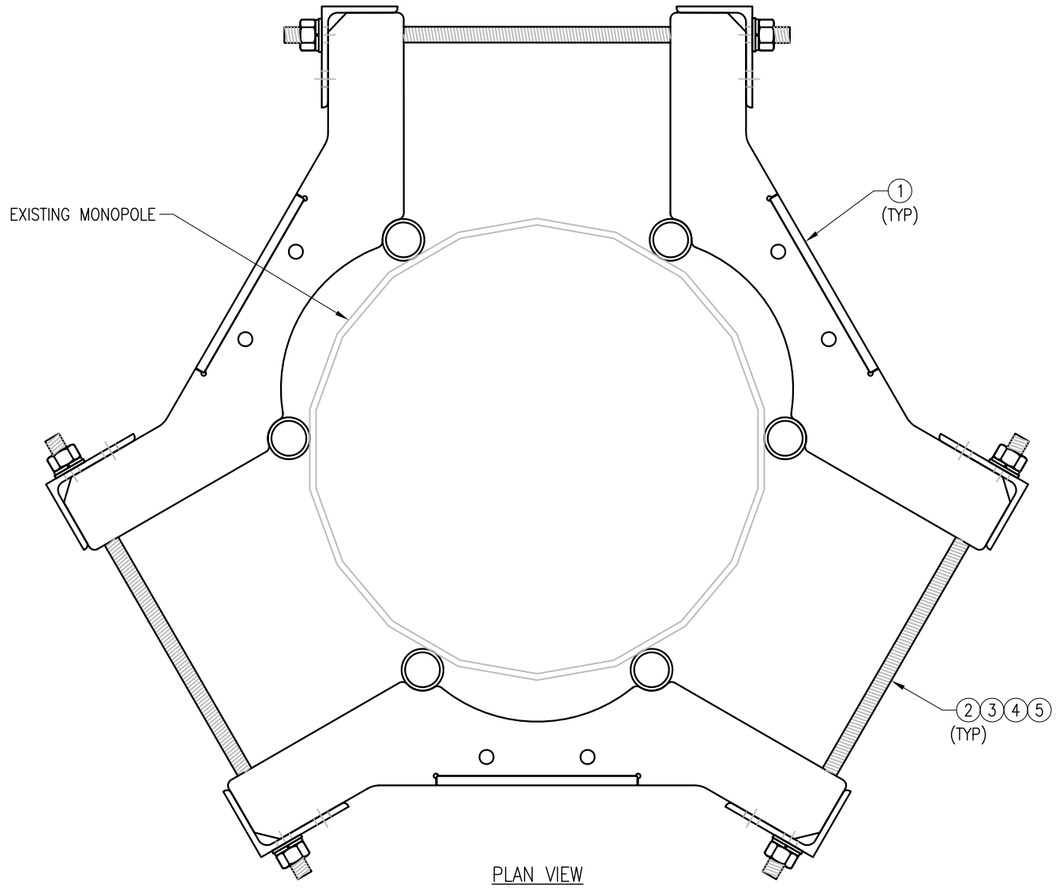
DRAWN BY: MN | CHECKED BY: HMA/KW

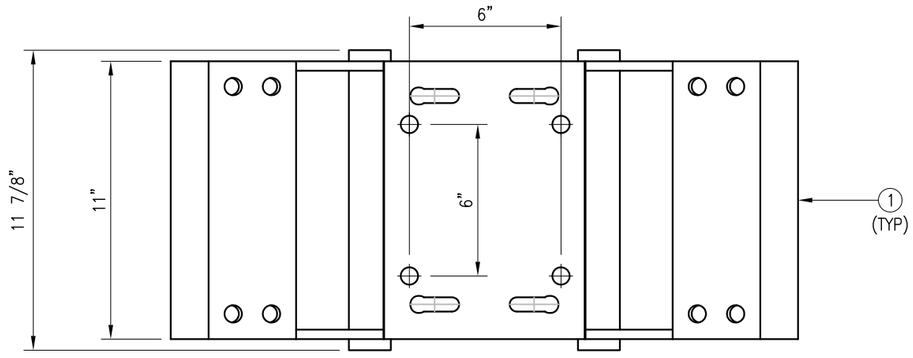
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5
REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

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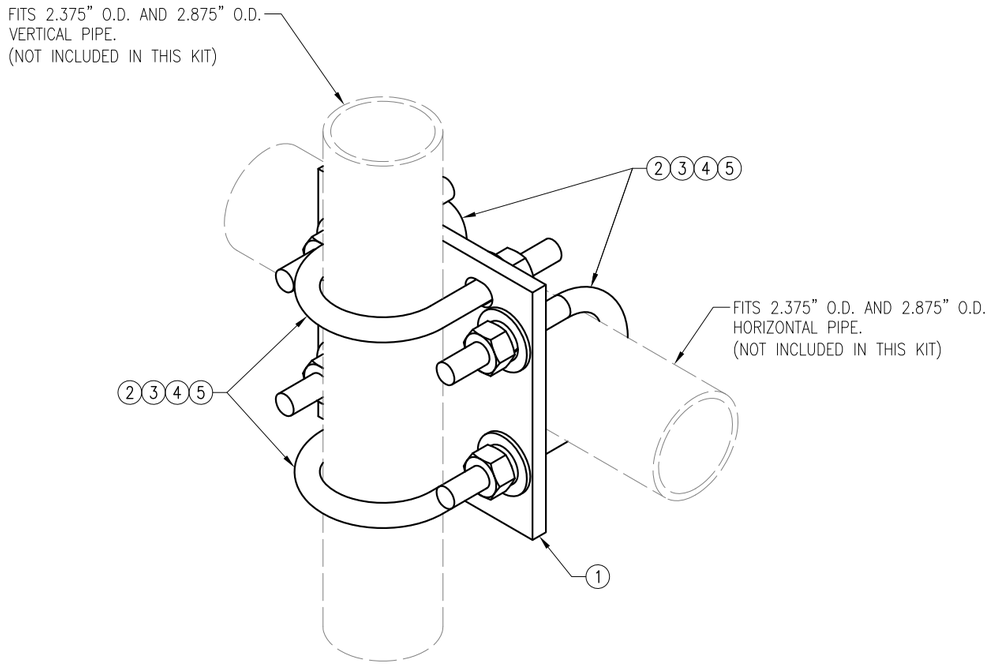
DRAWN BY: BT | CHECKED BY: HMA/KW

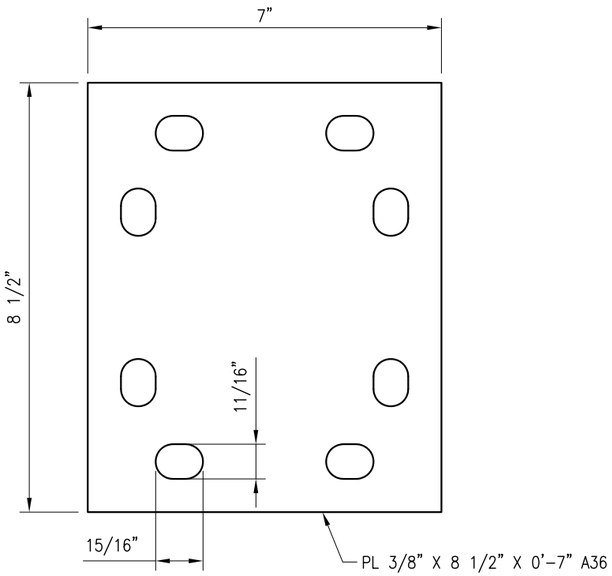
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0





PL375-857

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

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

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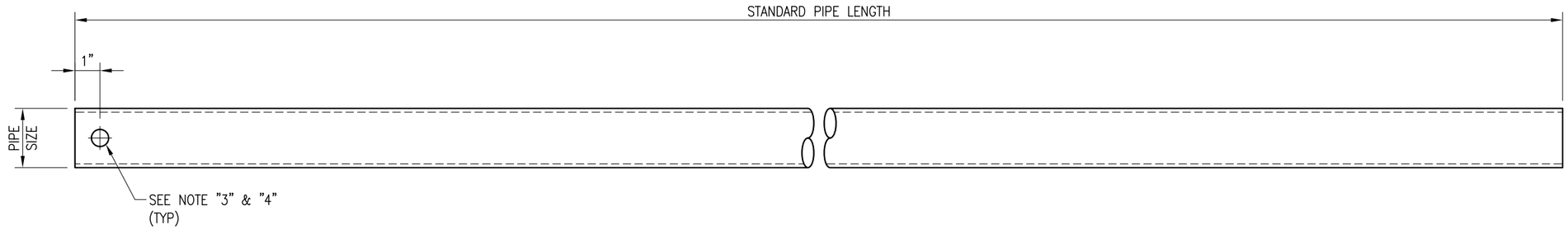
DRAWN BY: H.R | CHECKED BY: HMA

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

SHEET TITLE:
VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0



VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X072	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE. SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

NOTES:
1. ALL PIPE GRADE A53-B OR BETTER.
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. ALL HOLES ARE 11/16" DIA. U.N.O
4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VzW SMART Tool© Vendor

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DRAWN BY: BT | CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	08/04/21

SHEET TITLE:
VZWSMART STANDARD PIPE

SHEET NUMBER: VZWSMART-PIPE

REV #: 0

EXHIBIT G

Power Density / RF Emissions Report

FOX HILL TELECOM

Radio Frequency Emissions Analysis Report

Prepared for:

Crown Site ID: 806359_NHV 104 943122

Verizon Wireless Site Name: Milford CT

Verizon Wireless FUZE ID: 16231875

Site Address:

423 Oronoque Road

Milford, CT 06460

May 2, 2024

Fox Hill Telecom Project Number: 240123

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	19.55 %

Fox Hill Telecom, Inc Worcester MA 01609

FOX HILL TELECOM

May 2, 2024

Crown Castle
1800 W. Park Drive
Westborough, MA 01581

Emissions Analysis for:

Crown Castle Site: **806359 – NHV 104 943122**

Verizon Wireless Site: Milford CT

Fox Hill Telecom, Inc ("Fox Hill") was directed to analyze the proposed upgrades for Verizon Wireless to the Crown Castle facility located at **423 Oronoque Road, Milford, CT**, for the purpose of determining whether the emissions from the Proposed Verizon Wireless Antenna Installation, in addition to all existing radio systems located on this property, are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μW/cm2). The number of $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limits for the 700 MHz band & the 850 MHz cellular band are approximately 497 $\mu W/cm^2$ and 586 $\mu W/cm^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 3700 MHz (C band) frequency bands is 1000 $\mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report the percentage of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were performed for the proposed upgrades to the Crown Castle facility for Verizon Wireless located at **423 Oronoque Road, Milford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65 for far field modeling calculations.

In OET-65, plane wave power densities in the far field of an antenna are calculated by considering antenna gain and reflective waves that would contribute to exposure.

Since the radiation pattern of an antenna has developed in the **far field** region the power gain in specific directions needs to be considered in exposure predictions to yield an Effective Radiated Power (ERP) in each specific direction from the antenna. Also, since the vertical radiation pattern of the antenna is considered, the exposure calculations would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels. To determine a worst-case scenario at each point along the calculation radials, each point was calculated using the antenna gain value at each angle of incident and compared against the result using an isotropic radiator at the antenna height with the greater of the two used to yield the more pessimistic far field value for each point along the calculation radial.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential 1.6 times increase in power density in calculating far field power density values.

With these factors considered, the worst case **far field prediction model** utilized in this analysis is determined by the following equation:

Equation 9 per FCC OET65 for Far Field Modeling

$$S = \frac{33.4\ ERP}{R^2}$$

S = Power Density (in μw/cm^2)
ERP = Effective Radiated Power from antenna (watts)
R = Distance from the antenna (meters)

Predicted far field power density values for all carriers identified in this report were calculated 6 feet above the ground level and are displayed as a percentage of the applicable FCC standards. All emissions values for other carriers were calculated using the same Far Field model outlined above, using industry standard radio configurations and frequency band selection based upon available licenses in this geographic area for emissions contribution estimates.

For each Verizon Wireless sector, the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
LTE	700 MHz	4	40
LTE / 5G	850 MHz	4	40
LTE	1900 MHz (PCS)	4	40
LTE	2100 MHz (AWS)	4	40
5G	3700 MHz (C Band)	2	160

Table 1: Channel Data Table

The following **Verizon Wireless** antennas listed in *Table 2 – Antenna Data* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 3700 MHz (C Band) frequency bands. This is based on feedback from Verizon Wireless regarding anticipated antenna selection. Maximum gain values for all antennas are listed in *Table 3 – Verizon Wireless Inventory and Power Data* below.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	JMA MX06FRO660-03	105
A	2	JMA MX06FRO660-03	105
A	3	Samsung MT6413-77A	105
A	4	Amphenol BXA-171063-8BF-EDIN (Dormant)	105
B	1	JMA MX06FRO660-03	105
B	2	JMA MX06FRO660-03	105
B	3	Samsung MT6413-77A	105
B	4	Amphenol BXA-171063-8BF-EDIN (Dormant)	105
C	1	JMA MX06FRO660-03	105
C	2	JMA MX06FRO660-03	105
C	3	Samsung MT6413-77A	105
C	4	Amphenol BXA-171063-8BF-EDIN (Dormant)	105

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.

RESULTS

Per the calculations completed for the proposed Verizon Wireless configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	JMA MX06FRO660-03	700 MHz / 850 MHz	12.25 / 11.85	8	320	5,135.83	2.30
Antenna A2	JMA MX06FRO660-03	1900 MHz (PCS) / 2100 MHz (AWS)	15.85 / 16.05	8	320	12,596.94	1.18
Antenna A3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	4.67
Antenna A4	Amphenol BXA-171063-8BF-EDIN (Dormant)	NA	NA	0	0	0.00	0.00
						Sector A Composite MPE%	**8.15**
Antenna B1	JMA MX06FRO660-03	700 MHz / 850 MHz	12.25 / 11.85	8	320	5,135.83	2.30
Antenna B2	JMA MX06FRO660-03	1900 MHz (PCS) / 2100 MHz (AWS)	15.85 / 16.05	8	320	12,596.94	1.18
Antenna B3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	4.67
Antenna B4	Amphenol BXA-171063-8BF-EDIN (Dormant)	NA	NA	0	0	0.00	0.00
						Sector B Composite MPE%	**8.15**
Antenna C1	JMA MX06FRO660-03	700 MHz / 850 MHz	12.25 / 11.85	8	320	5,135.83	2.30
Antenna C2	JMA MX06FRO660-03	1900 MHz (PCS) / 2100 MHz (AWS)	15.85 / 16.05	8	320	12,596.94	1.18
Antenna C3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	4.67
Antenna C4	Amphenol BXA-171063-8BF-EDIN (Dormant)	NA	NA	0	0	0.00	0.00
						Sector C Composite MPE%	**8.15**

Table 3: Verizon Wireless Inventory and Power Data table

Table 4: All Carrier MPE Contributions shows all additional identified carriers on site and their emissions contribution estimates, along with the newly calculated maximum Verizon Wireless far field emissions contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas the highest recorded sector value be used for composite site emissions values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three Verizon Wireless sectors have the same configuration yielding the same results for all three sectors. *Table 5* below shows a summary for each Verizon Wireless Sector as well as the composite estimated emissions value for the site.

Site Composite MPE%	
Carrier	**MPE%**
Verizon Wireless – Max Per Sector Value	**8.15 %**
T-Mobile	7.62 %
Sprint	3.78 %
Site Total MPE %:	**19.55 %**

Table 4: All Carrier MPE Contributions

Verizon Wireless Sector A Total:	8.15 %
Verizon Wireless Sector B Total:	8.15 %
Verizon Wireless Sector C Total:	8.15 %
Site Total:	19.55 %

Table 5: Site MPE Summary

Table 6 below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated Verizon sector(s). For this site, all three Verizon Wireless sectors have the same configuration yielding the same results for all three sectors.

Verizon Wireless _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu W/cm^2$)	Frequency (MHz)	Allowable MPE ($\mu W/cm^2$)	Calculated % MPE
Verizon Wireless 700 MHz LTE	4	671.52	105	6.26	700 MHz	497	1.26%
Verizon Wireless 850 MHz LTE / 5G	4	612.43	105	6.09	850 MHz	586	1.04%
Verizon Wireless 1900 MHz (PCS) LTE	4	1,538.37	105	5.90	1900 MHz (PCS)	1000	0.59%
Verizon Wireless 2100 MHz (AWS) LTE	4	1,610.87	105	5.90	2100 MHz (AWS)	1000	0.59%
Verizon Wireless 3700 MHz (C Band) 5G	2	33,046.08	105	46.70	3700 MHz (C Band)	1000	4.67%
						Total:	**8.15 %**

Table 6: Verizon Wireless Maximum Sector MPE Power Values

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the Verizon Wireless facility as well as the site composite emissions estimates value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Verizon Wireless Sector	Power Density Value (%)
Sector A:	8.15 %
Sector B:	8.15 %
Sector C:	8.15 %
Verizon Wireless Maximum Total (per sector):	8.15 %
Site Total:	19.55 %
Site Compliance Status:	**COMPLIANT**

The estimated composite emissions value for this site, assuming all carriers present, is **19.55 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon the far field calculations performed for all carriers identified in this report.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite estimated values calculated were well within the allowable 100% threshold standard per the federal government.

Scott Heffernan
Principal RF Engineer
Fox Hill Telecom, Inc
Worcester, MA 01609
(978)660-3998

EXHIBIT H

Recipient Mailing Records

806359- Mayor

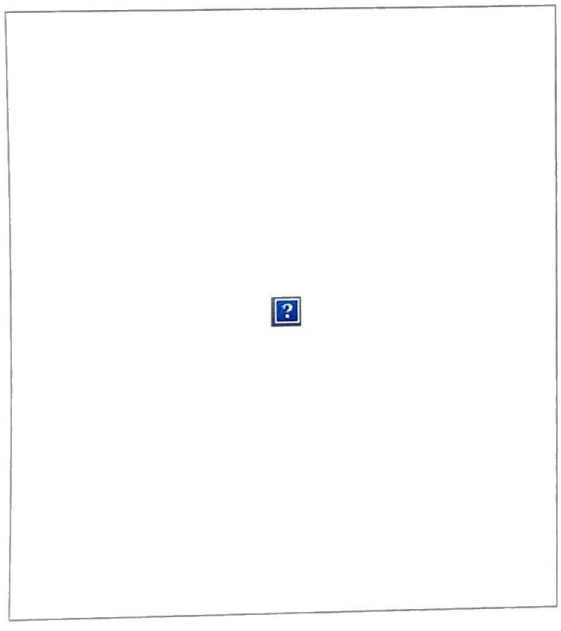
From: TrackingUpdates@fedex.com
To: Bachi, Jenifer
Subject: FedEx Shipment 777158742508: Your package has been delivered / FE to Mayor
Date: Tuesday, July 2, 2024 10:28:39 AM

Hi. Your package was delivered Tue, 07/02/2024 at 10:15am.

OBTAIN PROOF OF DELIVERY

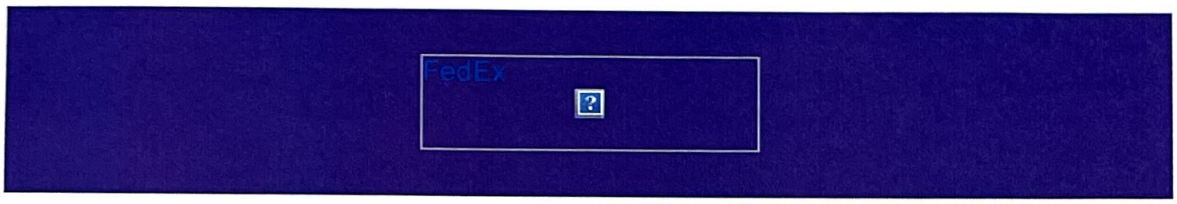
How was your delivery ?

TRACKING NUMBER	777158742508
FROM	KING OF PRUSSIA, PA, US
TO	MILFORD, CT, US
SHIP DATE	Mon 7/01/2024 06:02 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	MILFORD, CT, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



From: TrackingUpdates@fedex.com
To: Bachi, Jenifer
Subject: FedEx Shipment 777158679785: Your package has been delivered
Date: Tuesday, July 2, 2024 10:17:16 AM

806359-ZED

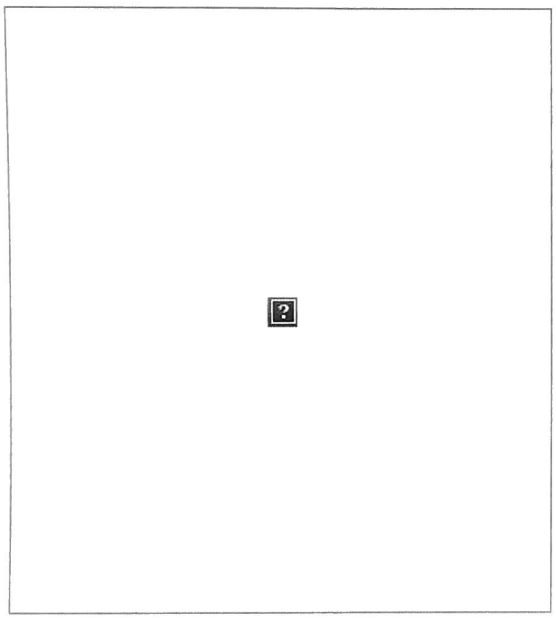


Hi. Your package was delivered Tue, 07/02/2024 at 10:10am.

OBTAIN PROOF OF DELIVERY

How was your delivery ?

TRACKING NUMBER	777158679785
FROM	KING OF PRUSSIA, PA, US
TO	MILFORD, CT, US
SHIP DATE	Mon 7/01/2024 06:02 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	MILFORD, CT, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:KPDA (610) 635-3221
JENIFER BACHI
CROWN CASTLE
3200 HORIZON DRIVE
SUITE 150
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 02JUL24
ACTWGT: 2.00 LB
CAD: 104924192/INET4730

BILL SENDER

TO **MELANIE A. BACHMAN, EXEC DIRECTOR**
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQUARE

NEW BRITAIN CT 06051
(860) 827-2935 REF: 1766.668
INV:
PO: 806569_VERIZON DEPT:

583J3/2614/9AE3

FedEx Express

J242024032601uv

WED - 03 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7771 5902 7398**

EB BDLA

06051
CT-US **BDL**