CROWN CASTLE

1 Cityplace Dr, Suite 490

Creve Coeur, MO 63141

Phone: (314) 513-0147

www.crowncastle.com

February 24, 2022

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

RE: **Notice of Exempt Modification for AT&T**
Crown Site ID #876342; AT&T Site ID#CTL05098
111 SCHOOL HOUSE ROAD MILFORD, CT 06460
Latitude: 41°12'46.06"/ Longitude: -73°5'7.10"

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 125-foot mounts on the existing 140-foot Monopole Tower located at 111 School House Road Milford. The property is owned by Milford Enterprises LLC and tower is owned by Crown Castle. AT&T now intends to replace nine (9) antennas and add (3) antennas. This modification/proposal 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 Modifications:

Tower:

REMOVE AND REPLACE

(3) Powerwave - 7770 Antennas (**REMOVE**), (3) CCI-TPA-65R-BU6DA-K Antennas (**REPLACE**)

(3) Quintel QS66512-6 Antennas (**REMOVE**), (3) Ericsson – AIR6449 N77D Antennas (antennas stacked) (**REPLACE**)

(3) CCI-HPA-65R-BUU-H6 Antennas (**REMOVE**), (3) Ericsson – AIR6449 N77D Antennas (antennas stacked) (**REPLACE**)

(3) Ericsson – RRUs-11 B12 RRU (**REMOVE**), (3) Ericsson – 8843 B2/B66A RRU (**REPLACE**)

(3) Ericsson – RRUs-12 B2 RRU (**REMOVE**), (3) Ericsson – 4478 B2/B14 RRU (**REPLACE**)

REMOVE

(2) KAELUS Diplexers
(6) Powerwave TMAs
(6) Coax Cables 1 5/8”

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(2) DC Cables 7/16”
(2) DC Cables ¾”

INSTALL
(3) Ericsson – AIR6419 N77G Antennas (antennas stacked)
(3) Ericsson – 4449 B5/B12 RRU
(1) Raycap Surge Protector

Ground:

REMOVE:
(6) LGP21901 Diplexers
(1) Fiber Cable 3/8”

INSTALL:
(3) Rectifiers in existing power plant

The Facility was approved by the City of Milford Planning and Zoning Commission on May 15, 1997.

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 Benjamin G. Blake, Mayor of the City of Milford, David B Sulkis, City Planner for the City of Milford. A copy will also be sent to the property owner.

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, AT&T 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).

1 Cityplace Dr, Suite 490
Creve Coeur, MO 63141

Phone: (314) 513-0147
www.crowncastle.com

Sincerely,

Colin Robinson

Colin Robinson
Project Manager
NETWORK BUILDING + CONSULTING
100 Apollo Drive Suite 303
Chelmsford, MA 01824
crobinson@nbcllc.com
(360) 561-3311

cc:

Benjamin G. Blake, Mayor *(Via Federal Express)*
City of Milford, CT
110 River St
Milford, CT 06460
203-783-3201

David Sulkis, City Planner *(Via Federal Express)*
City of Milford
70 West River Street
Milford, CT 06460
203-783-3245

MILFORD ENTERPRISES LLC *(Via Federal Express)*
C/O VIPUL MEHTA
1209 E MAIN STREET
STAMFORD, CT 06902

Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, February 25, 2022 12:55 PM
To: Colin Robinson
Subject: FedEx Shipment 776137431703: Your package has been delivered

Hi. Your package was delivered Fri, 02/25/2022 at 12:53pm.

Delivered to 110 RIVER ST, MILFORD, CT 06460

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	776137431703
FROM	NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824
TO	City of Milford Benjamin G. Blake, Mayor

	110 River St MILFORD, CT, US, 06460
REFERENCE	100788 NB+C
SHIPPER REFERENCE	100788 NB+C
SHIP DATE	Thu 2/24/2022 06:32 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	MILFORD, CT, US, 06460
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

FOLLOW FEDEX

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 11:55 AM CST 02/25/2022.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Thank you for your business.

Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, February 25, 2022 12:48 PM
To: Colin Robinson
Subject: FedEx Shipment 776137460240: Your package has been delivered

Hi. Your package was delivered Fri, 02/25/2022 at 12:43pm.

Delivered to 70 W RIVER ST, MILFORD, CT 06460

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	776137460240
FROM	NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824
TO	City of Milford David Sulkis, City Planner

	70 West River Street MILFORD, CT, US, 06460
REFERENCE	100788 NB+C
SHIPPER REFERENCE	100788 NB+C
SHIP DATE	Thu 2/24/2022 06:32 PM
PACKAGING TYPE	FedEx Envelope
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	MILFORD, CT, US, 06460
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

FOLLOW FEDEX

Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, February 25, 2022 2:20 PM
To: Colin Robinson
Subject: FedEx Shipment 776137538620: Your package has been delivered

Hi. Your package was delivered Fri, 02/25/2022 at 2:18pm.

Delivered to 1209 E MAIN ST, STAMFORD, CT 06902
Received by M.SWABY

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	776137538620
FROM	NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824
TO	C/O VIPUL MEHTA MILFORD ENTERPRISES LLC

	1209 E MAIN STREET STAMFORD, CT, US, 06902
REFERENCE	100788 NB+C
SHIPPER REFERENCE	100788 NB+C
SHIP DATE	Thu 2/24/2022 06:32 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	STAMFORD, CT, US, 06902
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Exhibit A

Original Facility Approval

DATE FILED 5/15/97
RECEIPT # 10391
FEE (INCLUDES CZC) $ $ 2200

City of Milford, Connecticut

APPLICATION FOR ZONING PERMIT

INSTRUCTIONS: Fill out this application in ball point pen. A scaled plot plan in duplicate, based on a certified surveyor's plot plan must be submitted with this application showing the proposed or existing lot and building dimensions and the location of all buildings in relation to the street lines, side lot lines and rear lot lines.

ADDRESS OF PROPERTY 111 Schoolhouse Rd. **ZONE** G.I.

MAP 33 **BLOCK** 335 **PARCEL** 5 **LOT NO.** ____ **ADDRESS MAP NO.** ____ **LOT SIZE** ____

WIDTH OF STREET RIGHT OF WAY LESS THAN 50 FT.? YES ___ NO ✓ **CORNER LOT?** YES ___ NO ✓

IS ANY PORTION OF THE LOT BELOW REGULATORY FLOOD ELEVATION? YES ___ NO ___ **CAM** YES ___ NO ✓

CITY WATER ✓ **PRIVATE WELL*** ___ **SEWER**** ✓ **SEPTIC***** ___ **ENGINEERING OFF STREET PERMIT #** ____

OWNER Telach Prop. L.P. **PHONE** ( ) 877-8000

ADDRESS OF OWNER 111 School House Rd. Milford CT
STREET CITY STATE ZIP CODE

PRESENT USE OF PROPERTY Motel

PROPOSED CONSTRUCTION NEW X ADDITION ___ ALTERATION ___ REPAIR ___

SIZE/USE OF PROPOSED CONSTRUCTION 140' Telecommunications monopole
- Wetlands Permit Req.-

NO. OF STORIES ___ **HEIGHT** 140' **REQUIRED PARKING SPACES** ___ **LOT COVERAGE** ___%

DATE OF APPROVALS: ZBA 2/11/97 CASPR ___ SITE PLAN May 6 1997 SPECIAL PERMIT May 6, 1997

EXEMPTION ISSUED ___ **SUBDIV. NAME** ___ **HISTORIC DIST. CERT.OF APPROPRIATENESS** ___

CERTIFICATION: *(WARNING)* I hereby certify that I am making this application on behalf of and with full authority of the owner of the property and that I am aware of the Zoning Regulations pertinent in this case and that the statements made herein are true and correct. *APPROVAL SHALL BE VALID FOR PLANS AS SUBMITTED.*

THE OCCUPANCY AND USE OF LAND AND BUILDINGS OR STRUCTURES PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY IS PROHIBITED

APPROVED BY:
Richard Vacek
Zoning Official

DATE ISSUED 5/15/97

APPLICANT:
NAME Mike Evancick Agent for Sprint PCS (Please Print)
SIGNATURE Mike Evancick
ADDRESS 9 Barnes Industrial Road
Street
CITY Wallingford STATE CT ZIP 06492
TELEPHONE NO. (203) 294-5609

* Permit required from State Health Dept. for apartments, subdivisions, trailer parks, shopping centers and public buildings.

** Permits for sewer connections are granted by Sewer Commission

*** Septic system approvals are granted by Health Department

P&Z OFFICE - WHITE BUILDING DEPT. - YELLOW APPLICANT'S COPY - PINK

ZONPER7/96

CAM REQUIRED YES__ NO__

MILFORD PLANNING & ZONING BOARD
PETITION FOR SPECIAL PERMIT

I (WE) Sprint PCS

HEREBY PETITION FOR A:

SPECIAL PERMIT ___ AMENDMENT TO A SPECIAL PERMIT xx

TO ESTABLISH ____ OR CONSTRUCT Telecommunications Monopole
(DESCRIPTION)

ON THE FOLLOWING PROPERTY:

ADDRESS OF PROPERTY 111 School House Road SEWER ___ SEPTIC ___

ASSESSOR'S MAP 33 BLOCK 335 PARCEL 5 ZONE GI ACRES 2.216

APPLICANT'S NAME Sprint PCS PHONE # (203) 294-5684

APPLICANT'S MAILING ADDRESS 95 Barnes Industrial Road, Wallingford, CT

PROPERTY OWNER'S NAME TELAHC Prop., L.P. PHONE # c/o (203) 877-8000

PROPERTY OWNER'S SIGNATURE

PROPERTY OWNER'S MAILING ADDRESS 111 School House Road, Milford, CT

IF APPEARING BY ATTORNEY OR AGENT:

NAME Harris Beach & Wilcox, LLP

SIGNATURE PHONE # (203) 877-8000

MAILING ADDRESS 147 North Broad Street, Milford, CT

HAS ANY PREVIOUS PETITION FOR A SPECIAL PERMIT BEEN FILED FOR THIS PROPERTY?

YES x NO __

IF YES, GIVE DECISION: APPROVED x DENIED ____ DATE 11/6/85

APPLICANT

NOTE: COPIES OF THIS APPLICATION WILL NOT BE ACCEPTED

FEE - SEE SCHEDULE OF ZONING FEES.
RECEIVED OF ____ DATE ____
RECEIVED BY ____ AMOUNT ____ RECEIPT NO. ____
DATE APPLICATION FILED DATE APPLICATION CERTIFIED ____
PLANNING & ZONING BOARD ACTION: DATE ____ APPROVED ____ DENIED ____

REVISED 6/93

PROCEDURE FOLLOWING APPROVAL
BY
PLANNING & ZONING BOARD

SITE PLAN REVIEW

Following approval by the Planning & Zoning Board, it is necessary to obtain a zoning permit at the Planning & Zoning Office. Plans for this permit will be the Board approved plans on file in our office unless the Board has stipulated revisions to be made. Please call the reviewing officer for this application at 783-3245 to make arrangements for the issuance of a zoning permit. The fee for a zoning permit following Board approval is $22.00. The zoning permit, associated plans and other exhibits must then be taken to the Building Inspector for the issuance of a building permit.

SPECIAL PERMIT/SPECIAL EXCEPTION

Following approval by the Planning & Zoning Board, it is necessary to obtain a zoning permit at the Planning & Zoning Office. Plans for this permit will be the Board approved plans on file in our office unless the Board has stipulated revisions to be made. Please call the reviewing officer for this application at 783-3245 to make arrangements for the issuance of a zoning permit. The fee for a zoning permit following Board approval is $22.00. The zoning permit, associated plans and other exhibits must then be taken to the Building Inspector for the issuance of a building permit.

Prior to the issuance of a zoning permit, a certificate, which is being held at the office must be filed on the land records in the City Clerk's Office for which a fee of $10.00 is required. You must present your receipt from the City Clerk's Office at the Planning & Zoning Office to be recorded in your file.

Exhibit B

Property Card

111 SCHOOLHOUSE RD

Location	111 SCHOOLHOUSE RD	**Mblu**	33/ 335/ 5/ /
Acct#	018826	**Owner**	MILFORD ENTERPRISES LLC
Assessment	$2,924,990	**Appraisal**	$4,178,550
PID	7439	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$2,946,650	$1,231,900	$4,178,550

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$2,062,660	$862,330	$2,924,990

Owner of Record

Owner	MILFORD ENTERPRISES LLC	**Sale Price**	$3,675,000
Other	C/O VIPUL MEHTA	**Certificate**	
Address	1209 E MAIN STREET STAMFORD, CT 06902	**Book & Page**	03622/0230
		Sale Date	03/27/2015
		Instrument	18

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
MILFORD ENTERPRISES LLC	$3,675,000		03622/0230	18	03/27/2015
CSMC 2007 C5 FFI HOTEL PORTFOLIO LLC	$6,930,207		03602/0294	22	10/06/2014
MILFORD FFI LLC	$4,800,000		03168/0407	00	05/10/2007
OLY REALTY ONE LLC	$3,800,000		02396/0375		02/28/2000
TELAHC PROPERTIES L.P.	$0		02040/0184		03/11/1994

Building Information

Building 1 : Section 1

Year Built: 1978

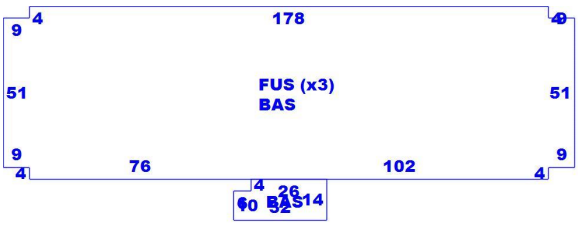
Building Photo

Living Area: 46,104
Replacement Cost: $4,268,654
Building Percent Good: 65
Replacement Cost Less Depreciation: $2,774,630

Building Attributes	
Field	**Description**
Style:	Hotel
Model	Commercial
Grade	AVERAGE
Stories:	4
Occupancy	1.00
Exterior Wall 1	Stucco/Masonry
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Floor 1	Carpet
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Hot Water
AC Type	Central
Struct Class	
Bldg Use	HOTELS
Total Rooms	
Total Bedrms	05
Total Baths	2
Bath Desc.	2-Full
1st Floor Use:	3000
Heat/AC	HEAT/AC SPLIT
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	12.00
% Comn Wall	0.00


(http://images.vgsi.com/photos/MilfordCTPhotos/\00\02\74\00.jpg)

Building Layout



(ParcelSketch.ashx?pid=7439&bid=7532)

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
FUS	Upper Story, Finished	34,260	34,260
BAS	First Floor	11,844	11,844
		46,104	46,104

Extra Features

Extra Features				Legend
Code	**Description**	**Size**	**Value**	**Bldg #**
SPR1	SPRINKLERS-WET	45680.00 S.F.	$53,450	1

Land

Land Use

Use Code	3000
Description	HOTELS
Zone	LI
Neighborhood	P
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	2.61
Frontage	
Depth	
Assessed Value	$862,330
Appraised Value	$1,231,900

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
MSC20	ELEVATR			1.00 UNIT	$15,200	1
SPL2	VINYL/PLASTIC			600.00 S.F.	$13,140	1
BHS1	CMM BTH HSE AV			280.00 S.F.	$4,730	1
PAV1	PAVING-ASPHALT			38000.00 S.F.	$85,500	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$2,979,120	$1,231,880	$4,211,000
2018	$2,979,120	$1,231,880	$4,211,000
2017	$2,979,120	$1,231,880	$4,211,000
2016	$2,979,120	$1,231,880	$4,211,000

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$2,085,390	$862,320	$2,947,710
2018	$2,085,390	$862,320	$2,947,710
2017	$2,085,390	$862,320	$2,947,710
2016	$2,085,390	$862,320	$2,947,710

Exhibit C

Construction Drawings

AT&T SITE NUMBER: CTL05098
AT&T SITE NAME: MILFORD NAUGATUK GARDENS
AT&T FA CODE: 10071132
AT&T PACE NUMBER: MRCTB052634, MRCTB050832, MRCTB051077, MRCTB051123, MRCTB050963, MRCTB051025, MRCTB050880, MRCTB051096
AT&T PROJECT: 5G NR 1SR CBAND, BBU ADD, 5G NR 1DR-2, 4TX4RX SOFTWARE RETROFIT, LTE 4C, 5G NR 1SR CBAND, LTE 5C, 5G NR UPGRADE

BUSINESS UNIT #: 876342
SITE ADDRESS: 111 SCHOOL HOUSE ROAD, A/K/A BIC DRIVE MILFORD, CT 06460
COUNTY: NEW HAVEN
SITE TYPE: MONOPOLE
TOWER HEIGHT: 140'-0"

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	BIC DRIVE (SSUSA)
SITE ADDRESS:	111 SCHOOL HOUSE ROAD, A/K/A BIC DRIVE MILFORD, CT 06460
COUNTY:	NEW HAVEN
MAP/PARCEL #:	042 335 1 TX
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41°12'46.06"
LONGITUDE:	-73°5'7.10"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	41'
CURRENT ZONING:	DO-25
JURISDICTION:	CITY OF MILFORD
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	KINGDOM LIFE CHRISTIAN CHURCH 597 NAUGATUCK AVE MILFORD, CT 06461
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	UI CO (800) 722-5584
TELCO PROVIDER:	AT&T (866) 620-6900

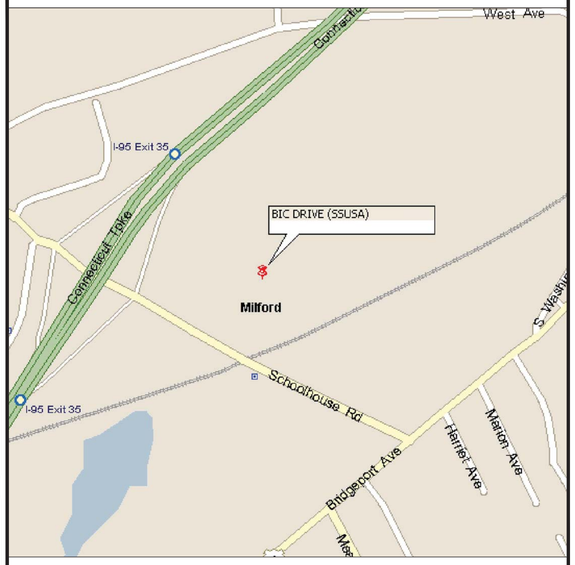
DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT MOUNTING DETAILS
C-5	EQUIPMENT SPECS
C-5.1	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ATTACHED	SMAST DETAIL

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!

LOCATION MAP



NO SCALE

SITE PHOTO

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 MARVIN PHILLIPS marvin.phillips@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277 PAUL PEDICONE - PROJECT MANAGER PAUL.PEDICONE@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.D'AMICO@CROWNCASTLE.COM

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

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 (3) POWERWAVE - 7770 ANTENNAS
- REMOVE (3) QUINTEL - QS66512 ANTENNAS
- REMOVE (3) CCI ANTENNAS - HPA-65R-BUU-H6 ANTENNAS
- REMOVE (6) COMMSCOPE - LGP21401 TMAs
- REMOVE (3) ERICSSON - RRUS-11 B12 RADIOs
- REMOVE (3) ERICSSON - RRUS-12 B2 + RRUS-A2 B25 RADIOs
- REMOVE (2) KAELUS - DBC0061F1V51-2 DIPLEXERS
- RELOCATE (2) COMMSCOPE - WCS-IMFQ-AMT-43 TMAS
- RELOCATE (3) ERICSSON - RRUS-32 B30 RADIOs
- REMOVE (2) DC CABLE (7/16")
- REMOVE (2) DC CABLES (3/4")
- REMOVE (1) FIBER CABLE (3/8")
- REMOVE (6) COAX CABLES (1-5/8")
- INSTALL MOUNT MODIFICATIONS PER MOUNT ANALYSIS BY INFINIGY DATED SEPTEMBER 13, 2021
- INSTALL (3) CCI - TPA-65R-BUG6DA-K ANTENNAS
- INSTALL (6) ERICSSON - AIR6449 N77D+AIR6419 N77G STACKED ANTENNAS
- INSTALL (3) CCI - DMP65R-BU6DA ANTENNAS
- INSTALL (3) ERICSSON - 4478 B14 RADIOs
- INSTALL (3) ERICSSON - 8843 B2/B66A RADIOs
- INSTALL (3) ERICSSON - 4449 B5/B12 RADIOs
- INSTALL (1) RAYCAP - DC9-48-60-24-EC-EV SQUID
- INSTALL (1) COMMSCOPE - WCS-IMFQ-AMT-43 TMA
- INSTALL (7) DC CABLES (7/8")
- INSTALL (2) FIBER CABLE (3/8")
- INSTALL (6) BACK TO BACK MOUNTS
- INSTALL (3) SMAST MOUNTING PIPES
- INSTALL (6) Y CABLES

GROUND SCOPE OF WORK:
- REMOVE (6) LGP21901 DIPLEXERS
- INSTALL (1) 6648 WITH Xcede CABLE
- INSTALL (1) 6630 (+IDLe)
- INSTALL (3) RECTIFIERS IN EXISTING POWER PLANT

NOTE:
THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	TEP
DATED:	9/21/21
MOUNT ANALYSIS:	INFINIGY
DATED:	9/13/21
AC ELECTRICAL POWER DESIGN:	BY OTHERS
DATED:	
RFDS REVISION:	PRELIMINARY
DATED:	8/7/21
ORDER ID:	556513
REVISION:	0

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
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CHARLOTTE, NC 28277

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SUITE 300
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AT&T SITE NUMBER:
CTL05098

BU #: **876342**
BIC DRIVE (SSUSA)

111 SCHOOL HOUSE ROAD,
A/K/A BIC DRIVE
MILFORD, CT 06460

EXISTING
140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/29/21	RPA	CONSTRUCTION	JTS
1	10/11/21	JTS	CONSTRUCTION	JTS
2	12/13/21	JTS	CONSTRUCTION	JTS
3	02/18/22	JTS	CONSTRUCTION	LR

STATE OF CONNECTICUT
No. 28924
LICENSED PROFESSIONAL ENGINEER
02/18/22

B&T ENGINEERING, INC.

SHEET NUMBER: T-1
REVISION: 3

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

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

GREENFIELD GROUNDING NOTES:

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

ELECTRICAL INSTALLATION NOTES:

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

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ATLANTA, GA 30324-3300

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www.btgrp.com

AT&T SITE NUMBER:
CTL05098

BU #: **876342**
BIC DRIVE (SSUSA)

111 SCHOOL HOUSE ROAD,
A/K/A BIC DRIVE
MILFORD, CT 06460

EXISTING
140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/29/21	RPA	CONSTRUCTION	JTS
1	10/11/21	JTS	CONSTRUCTION	JTS
2	12/13/21	JTS	CONSTRUCTION	JTS
3	02/18/22	JTS	CONSTRUCTION	LR

No. 23824
02/18/22

B&T ENGINEERING, INC.

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SHEET NUMBER: **T-2**
REVISION: **3**

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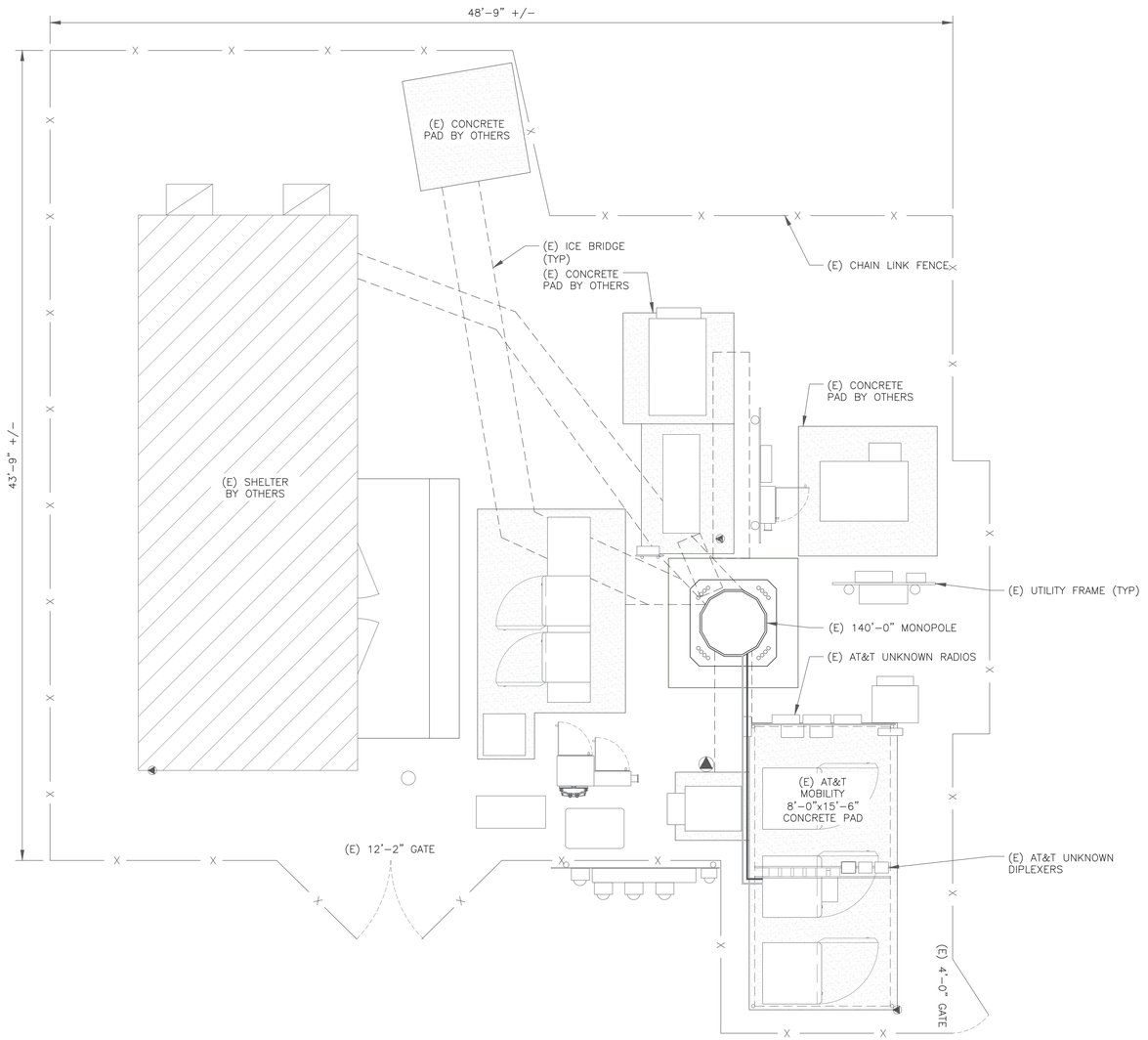

1 SITE PLAN
SCALE: 4' 3' 2' 1' 0 4'
1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)

N

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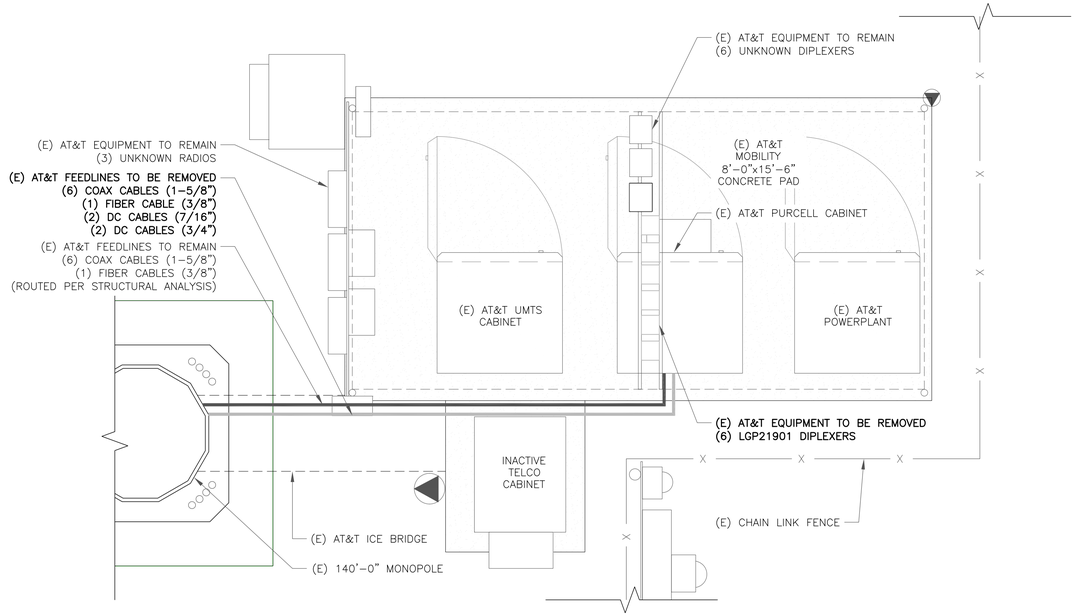
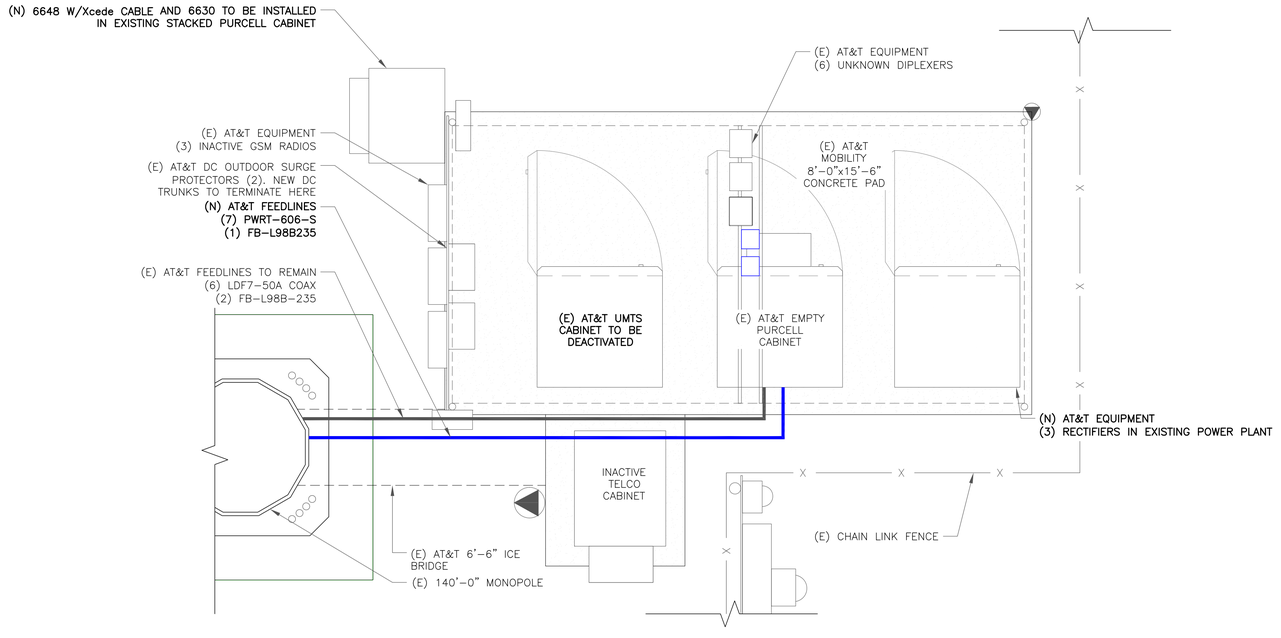
STATE OF CONNECTICUT
GEORGE LEE
No. 23924
LICENSED
PROFESSIONAL ENGINEER
02/18/22

B&T ENGINEERING, INC.

SHEET NUMBER: C-1.1
REVISION: 3



1 EXISTING EQUIPMENT PLAN
SCALE: 2' 1' 0 2' 1/2"=1'-0" (FULL SIZE) 1/4"=1'-0" (11x17)



2 FINAL EQUIPMENT PLAN
SCALE: 2' 1' 0 2' 1/2"=1'-0" (FULL SIZE) 1/4"=1'-0" (11x17)

GROUND SCOPE OF WORK:

- INSTALL (1) 6648 W/Xcede CABLE
- INSTALL (1) 6630 (+IDLe)
- INSTALL (3) RECTIFIERS IN EXISTING POWER PLANT

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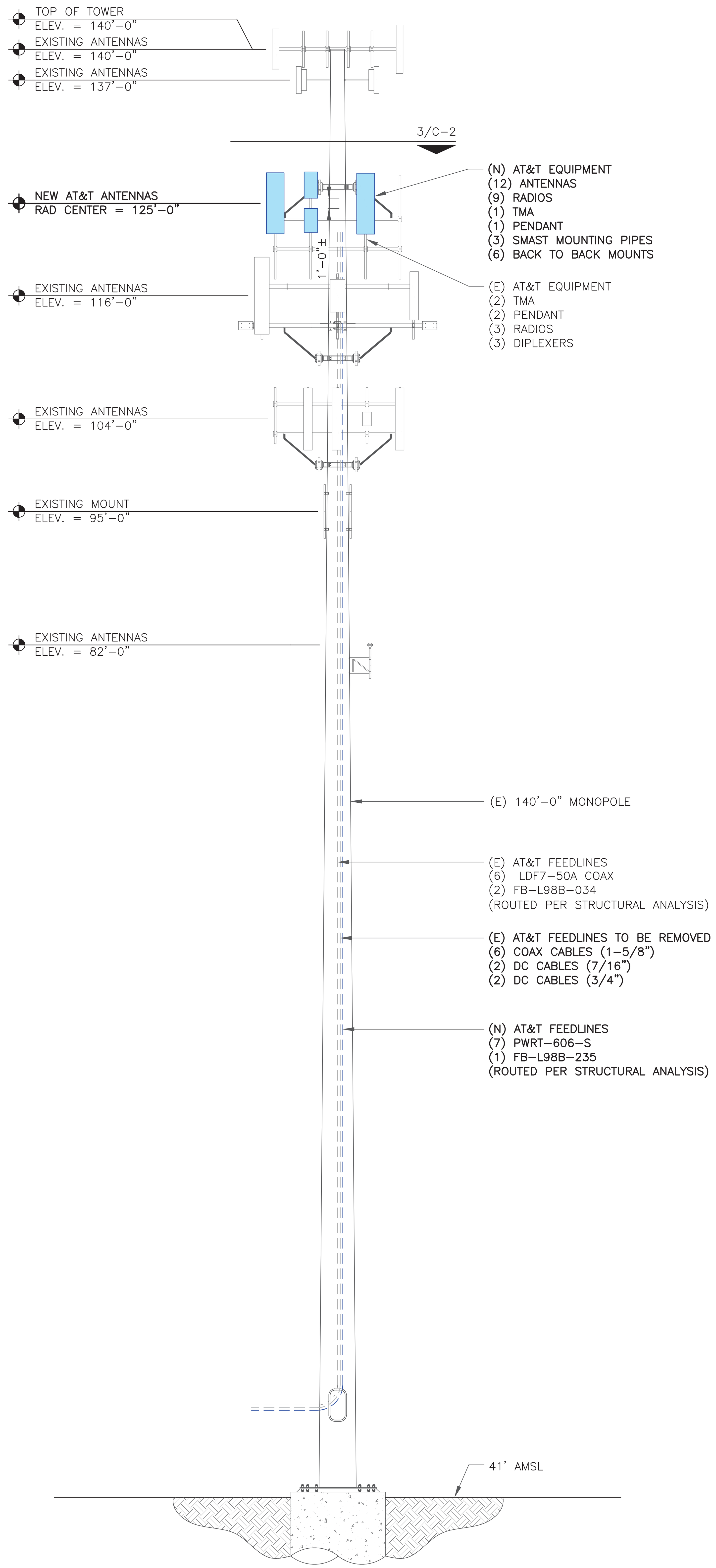
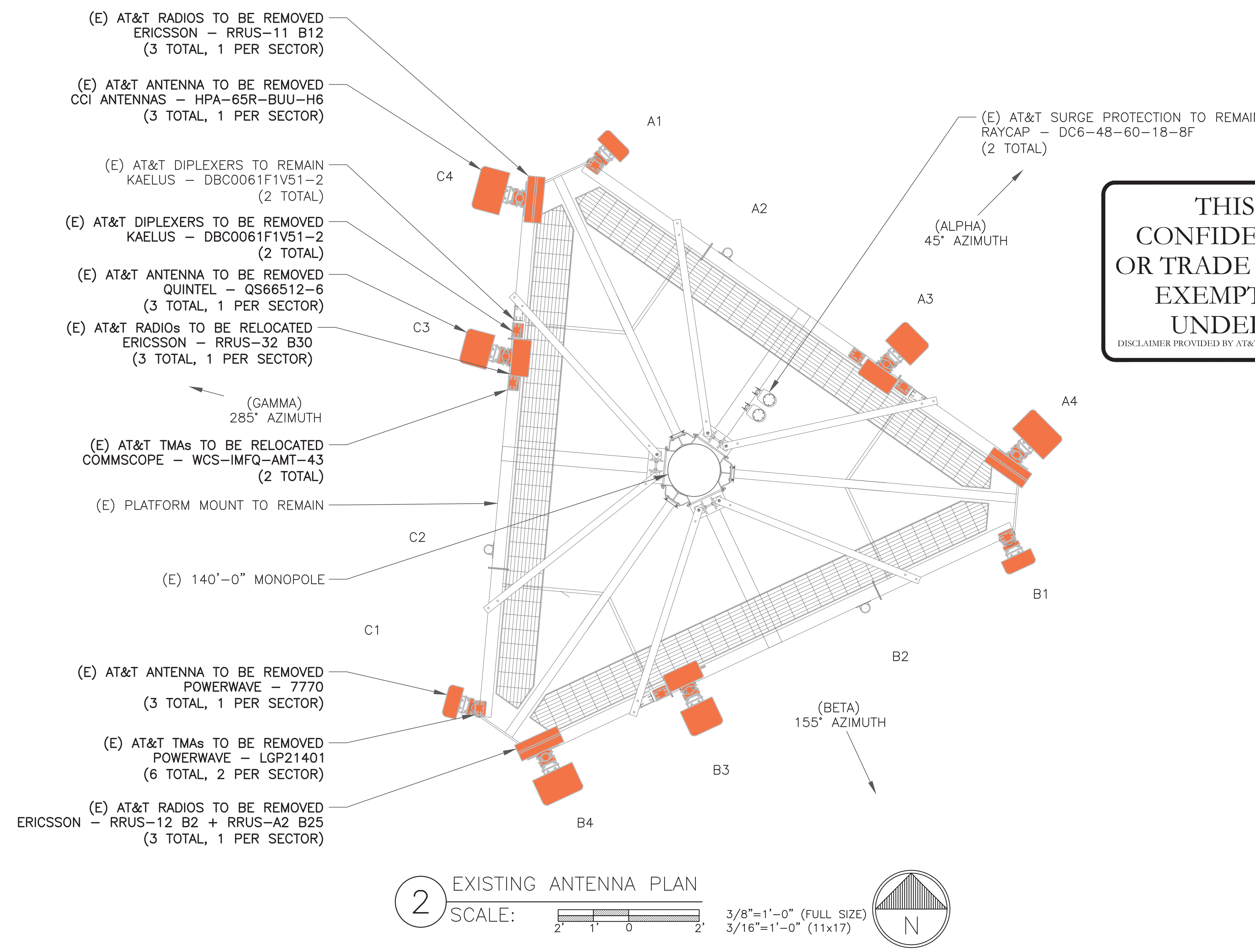
SHEET NUMBER: C-1.2
REVISION: 3



1 FINAL ELEVATION
SCALE: NOT TO SCALE



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

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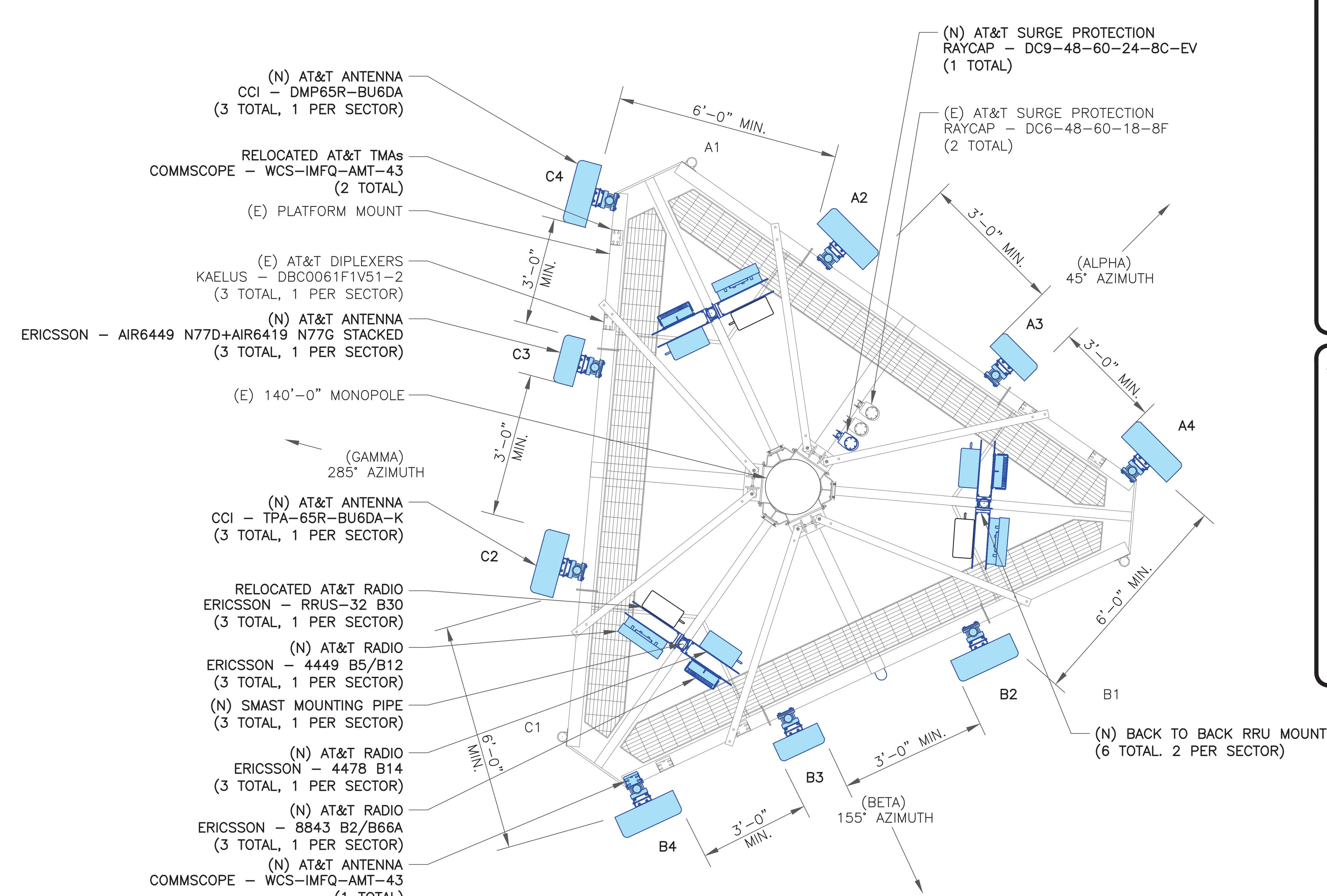

3 FINAL ANTENNA PLAN
SCALE: 2' 1' 0 2'
3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)

"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.

INSTALLER NOTES:

1. REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
2. REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
4. 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
5. 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
6. 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS.
7. ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
8. 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.

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STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER No. 23924
02/18/22

B&T ENGINEERING, INC.

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SHEET NUMBER: C-2

REVISION: 3

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FINAL ANTENNA AND FEEDLINE SCHEDULE

POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL ON TOWER	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	–	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–	–	(2) RAYCAP – DC6–48–60–18–8F (1) RAYCAP – DC9–48–60–24–8C –EV	(1) 3/8" FIBER (1) 3/8" FIBER (7) 7/8" DC CABLES (1) 3/8" FIBER	–	–	N	N	N
A2	LTE 700 / LTE 1900 / LTE AWS / 5G 1900 / 5G AWS	NEW	45°	CCI – TPA–65R–BU6DA–K	125'–0"	0°	7° / 6° / 6° / 6° / 6° / 6°	1 5/8"	165'–0"	2	–			(1) ERICSSON – 4478 B14 (1) ERICSSON – 8843 B2/B66A	TOWER	N	N	N
A3	5G CBAND / 5G DoD	NEW	45°	ERICSSON – AIR6449 N77D+AIR6419 N77G STACKED	125'–0"	–	–	–	–	–	–			–	–	(1) DBC0061 F1V51–2	N	N
A4	LTE 700 / 5G 850 / LTE WCS	NEW	45°	CCI – DMP65R–BU6DA	125'–0"	0°	7° / 7° / 6°	–	–	–	(1) WCS–IMFQ–A MT–43			(1) ERICSSON – 4449 B5/B12 (1) ERICSSON – RRUS–32 B30	TOWER	N	N	N
BETA SECTOR																		
B1	–	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–	–	–	–	–	–	N	N	N
B2	LTE 700 / LTE 1900 / LTE AWS / 5G 1900 / 5G AWS	NEW	155°	CCI – TPA–65R–BU6DA–K	125'–0"	0°	9° / 3° / 3° / 3° / 3° / 3°	1 5/8"	165'–0"	2	–			(1) ERICSSON – 4478 B14 (1) ERICSSON – 8843 B2/B66A	TOWER	N	N	N
B3	5G CBAND / 5G DoD	NEW	155°	ERICSSON – AIR6449 N77D+AIR6419 N77G STACKED	125'–0"	–	–	–	–	–	–			–	–	(1) DBC0061 F1V51–2	N	N
B4	LTE 700 / 5G 850 / LTE WCS	NEW	155°	CCI – DMP65R–BU6DA	125'–0"	0°	9° / 9° / 3°	–	–	–	(1) WCS–IMFQ–A MT–43			(1) ERICSSON – 4449 B5/B12 (1) ERICSSON – RRUS–32 B30	TOWER	N	N	N
GAMMA SECTOR																		
C1	–	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–	–	–	–	–	–	N	N	N
C2	LTE 700 / LTE 1900 / LTE AWS / 5G 1900 / 5G AWS	NEW	285°	CCI – TPA–65R–BU6DA–K	125'–0"	0°	4° / 3° / 3° / 3° / 3° / 3°	1 5/8"	165'–0"	2	–			(1) ERICSSON – 4478 B14 (1) ERICSSON – 8843 B2/B66A	TOWER	N	N	N
C3	5G CBAND / 5G DoD	NEW	285°	ERICSSON – AIR6449 N77D+AIR6419 N77G STACKED	125'–0"	–	–	–	–	–	–			–	–	(1) DBC0061 F1V51–2	N	N
C4	LTE 700 / 5G 850 / LTE WCS	NEW	285°	CCI – DMP65R–BU6DA	125'–0"	0°	4° / 4° / 3°	–	–	–	(1) WCS–IMFQ–A MT–43			(1) ERICSSON – 4449 B5/B12 (1) ERICSSON – RRUS–32 B30	TOWER	N	N	N

NOTE: BOLD DENOTES NEW EQUIPMENT

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

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EXISTING
140'-0" MONOPOLE

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1	10/11/21	JTS	CONSTRUCTION	JTS
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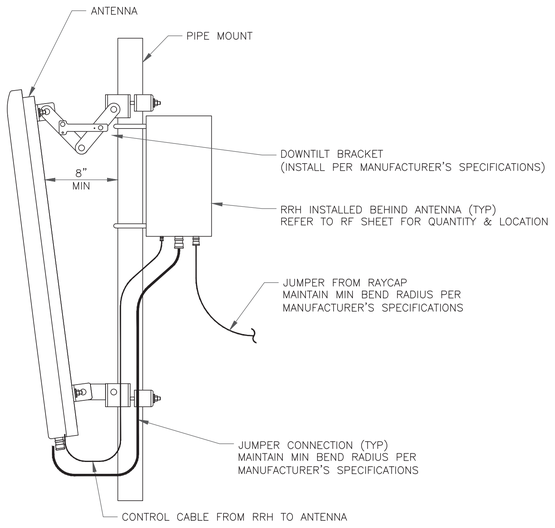
3	02/18/22	JTS	CONSTRUCTION	LR

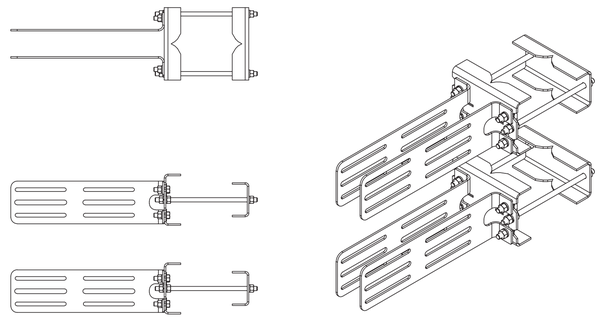
STATE OF CONNECTICUT PROFESSIONAL ENGINEER No. 23924 LICENSED
02/18/22

B&T ENGINEERING, INC.

SHEET NUMBER: C-3
REVISION: 3

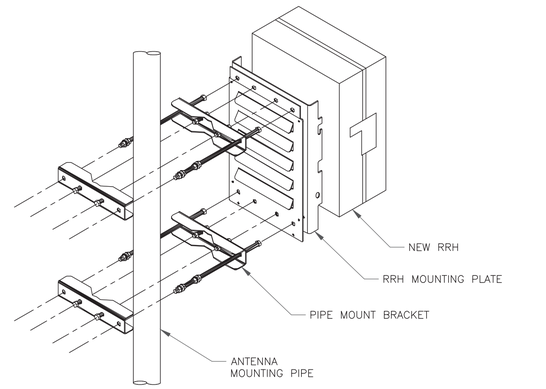


1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE



COMMSCOPE – RR-FA2
FAST ACCESS DUAL RRH MOUNT

2 COMMSCOPE – RR-FA2
SCALE: NOT TO SCALE



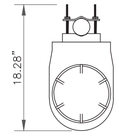
NOTE:
ANTENNA NOT SHOWN FOR CLARITY

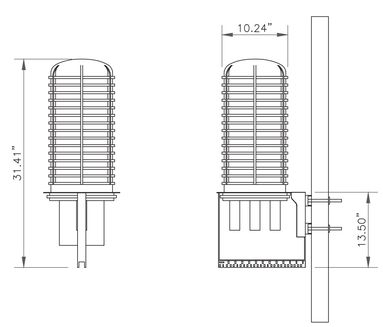
3 SINGLE RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

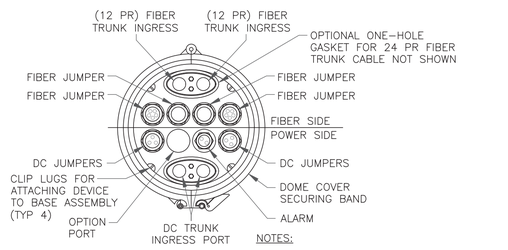
RAYCAP
DC9-48-60-24-8C-EV

RAYCAP – DC9-48-60-24-8C-EV
SIZE: 10.24x31.40 IN.
WEIGHT: 26.2 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 330 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON
MOUNTING BOLTS DURING INSTALLATION







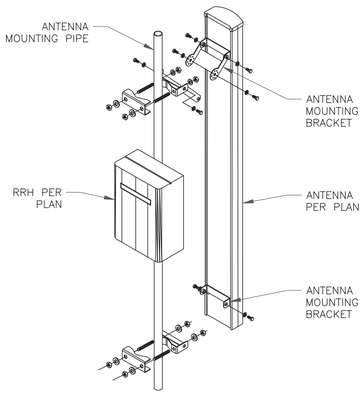
NOTES:

1. REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1" NPT ADAPTER (COOPER CROUSE-HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.

6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

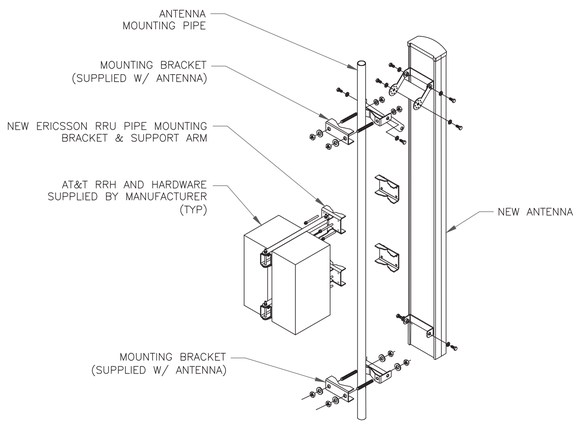
1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



4 ANTENNA WITH RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

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



5 ANTENNA WITH DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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ATLANTA, GA 30324-3300

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CHARLOTTE, NC 28277

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

AT&T SITE NUMBER:
CTL05098

BU #: **876342**
BIC DRIVE (SSUSA)

111 SCHOOL HOUSE ROAD,
A/K/A BIC DRIVE
MILFORD, CT 06460

EXISTING
140'-0" MONOPOLE

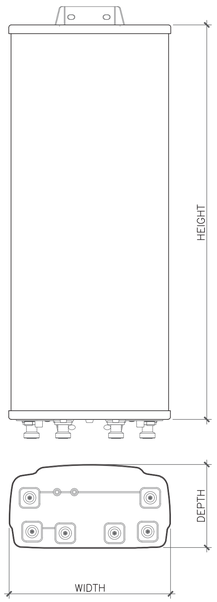
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	9/29/21	RPA	CONSTRUCTION	JTS
1	10/11/21	JTS	CONSTRUCTION	JTS
2	12/13/21	JTS	CONSTRUCTION	JTS
3	02/18/22	JTS	CONSTRUCTION	LR

B&T ENGINEERING, INC.

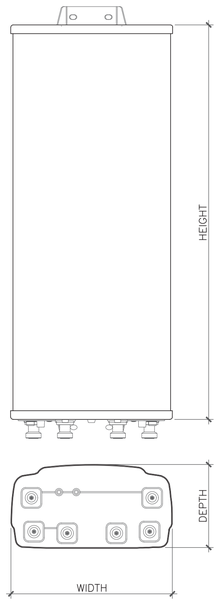
SHEET NUMBER: C-4

REVISION: 3



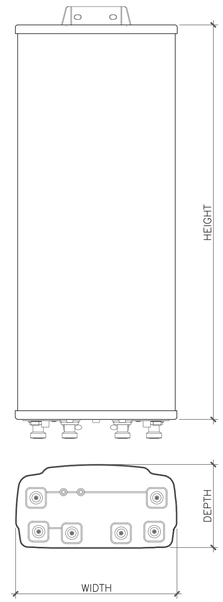
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU6DA	71.2"	20.7"	7.7"	89.3 lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



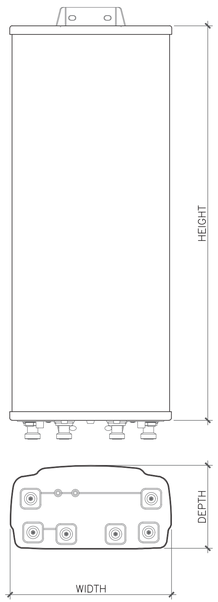
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
TPA-65R-BU6DA-K	71.2"	21.0"	7.8"	72.5 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE



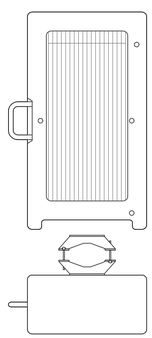
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6419 N77G	27.95"	15.75"	6.68"	66.2 lbs

3 ANTENNA DETAIL
SCALE: NOT TO SCALE



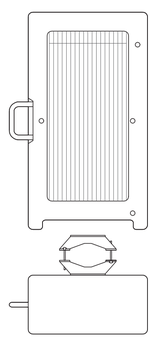
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6449 N77D	30.63"	15.87"	10.55"	83.78 lbs

4 ANTENNA DETAIL
SCALE: NOT TO SCALE



ERICSSON - RADIO 4478 B14
B14WEIGHT (FULLY EQUIPPED): 59.4 LBS
SIZE (HxWxD): 18.1x13.4x8.26 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

5 ERICSSON - 4478 B14
SCALE: NOT TO SCALE



ERICSSON - RRUS 4449 B5/B12
WEIGHT (FULLY EQUIPPED): 71.0 LBS
SIZE (HxWxD): 17.9x13.19x9.44 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

6 ERICSSON - 4449 B5/B12
SCALE: NOT TO SCALE

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BIC DRIVE (SSUSA)

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EXISTING
140'-0" MONOPOLE

ISSUED FOR:

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3	02/18/22	JTS	CONSTRUCTION	LR

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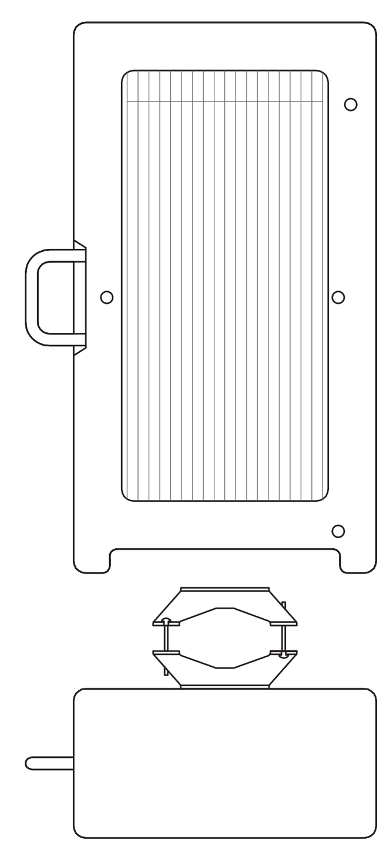
SHEET NUMBER: C-5

REVISION: 3



ERICSSON – RRUS 8843 B2/ B66A
WEIGHT (FULLY EQUIPPED): 72.0 LBS
SIZE (HxWxD): 14.9x13.2x10.9 IN.
CONNECTOR TYPE: 4.3–10 FEMALE (4 TOTAL PORTS)

1 ERICSSON – 8843 B2/B66A
SCALE: NOT TO SCALE

TMA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
WCS–IMFQAMT–43	8.1"	5.7"	8.2"	20.5 lbs

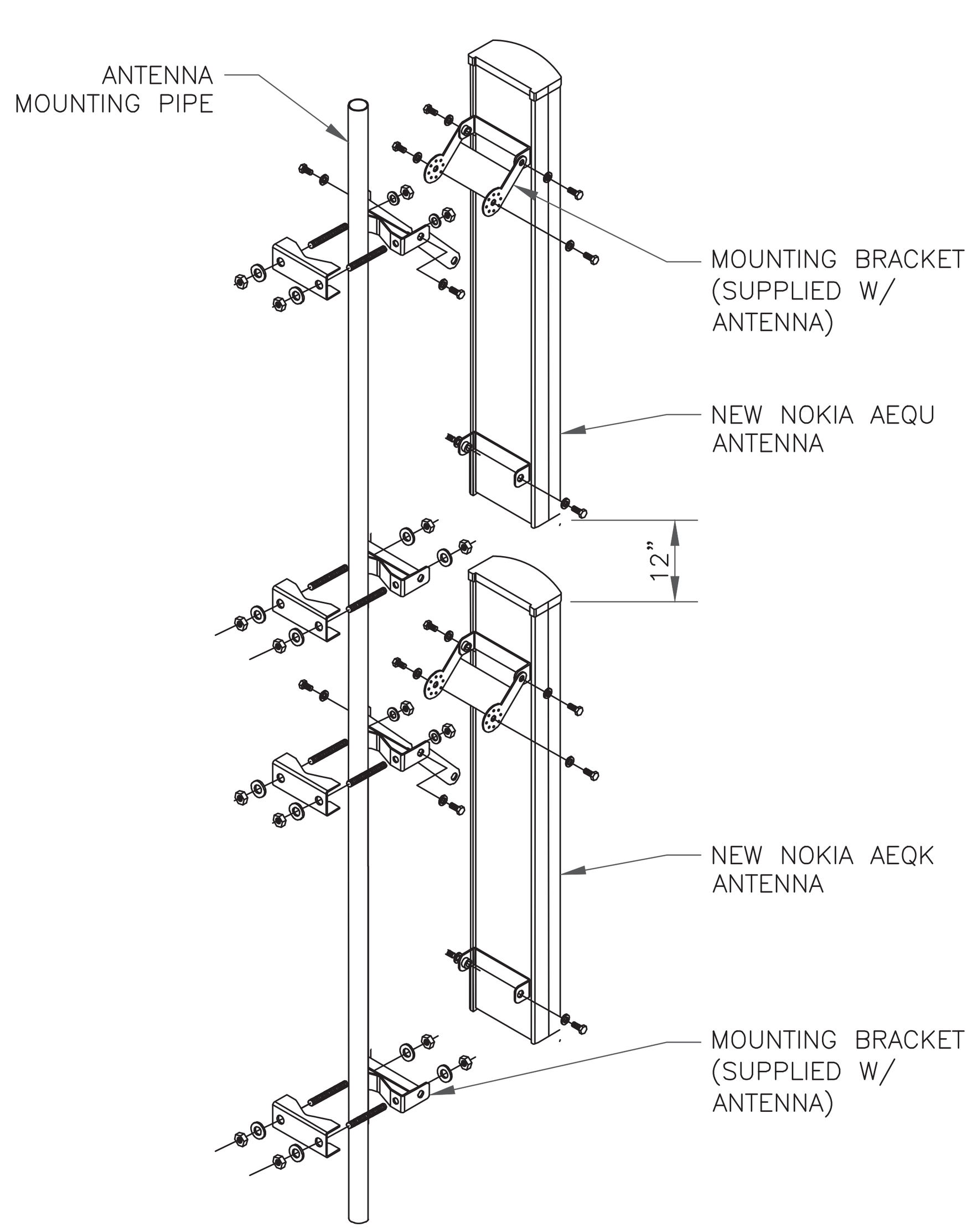
2 TMA DETAIL
SCALE: NOT TO SCALE

OVP SPECIFICATIONS	
MANUFACTURER	RAYCAP
MODEL #	DC9–48–60–24–8C–EV
WIDTH	10.24"
DEPTH	18.28"
HEIGHT	31.41"
WEIGHT	26.60 LBS

3 OVP SPECS
SCALE: NOT TO SCALE

INSTALLER NOTES:

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



4 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

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6 NOT USED
SCALE: NOT TO SCALE

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3	02/18/22	JTS	CONSTRUCTION	LR

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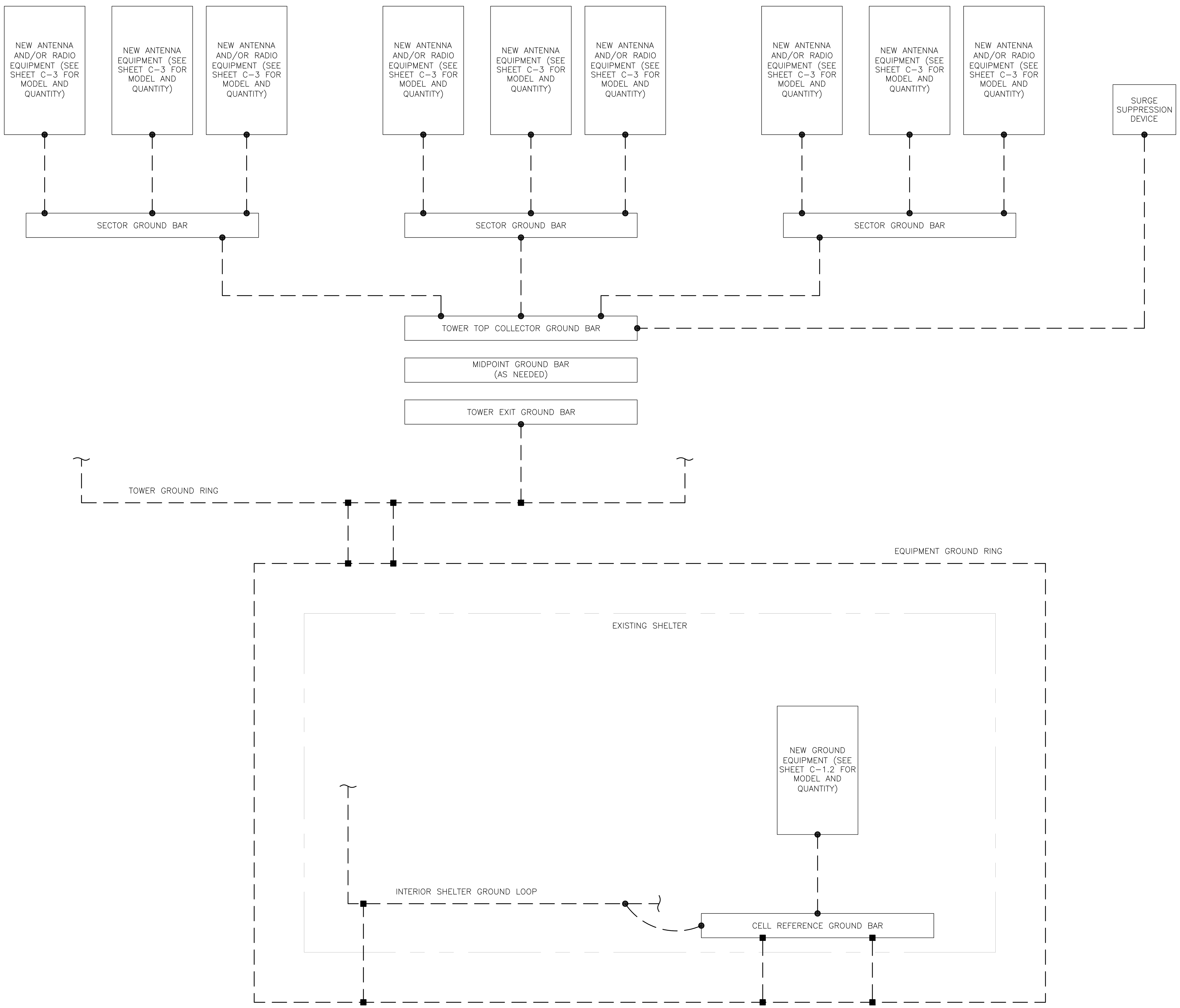
SHEET NUMBER: C-5.1
REVISION: 3



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

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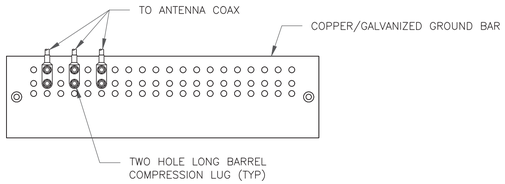
3	02/18/22	JTS	CONSTRUCTION	LR

B&T ENGINEERING, INC.

SHEET NUMBER: G-1

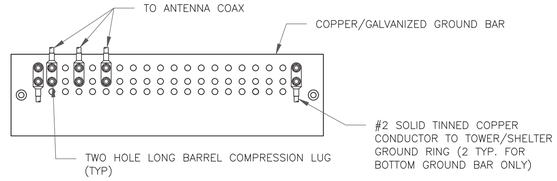
REVISION: 3



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

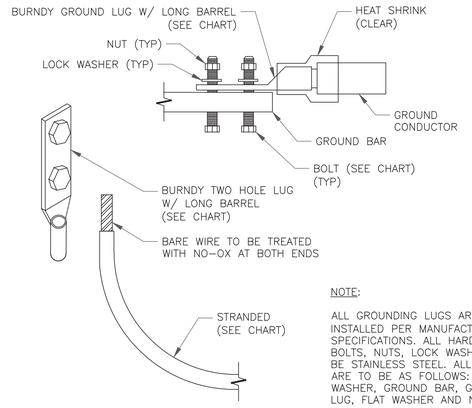


NOTES:

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

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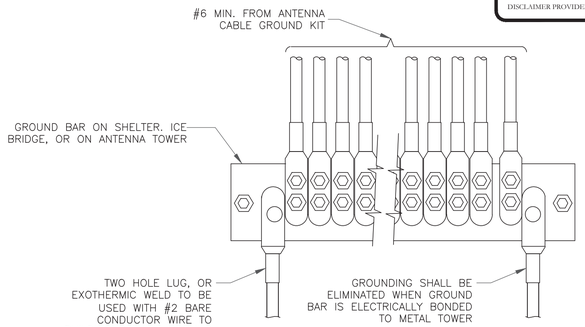
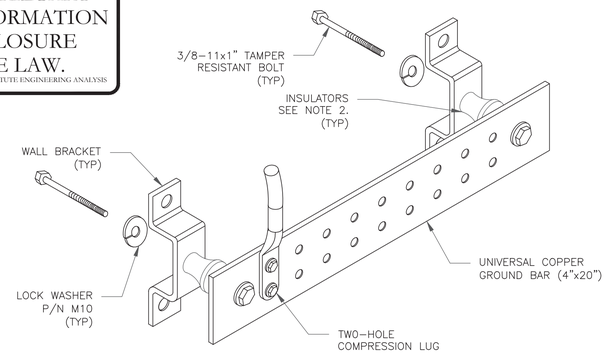


4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

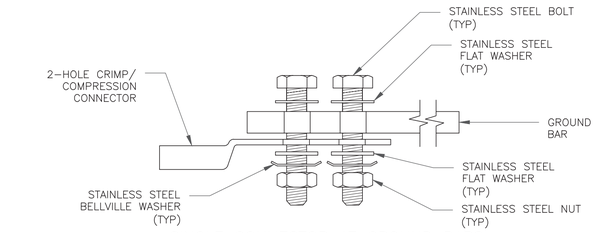


NOTES:

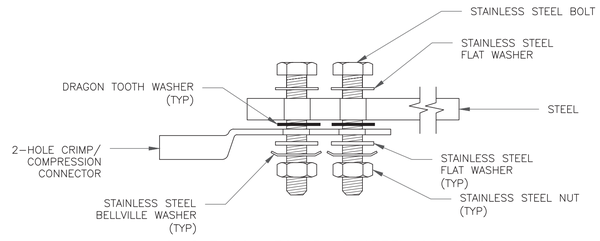
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

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

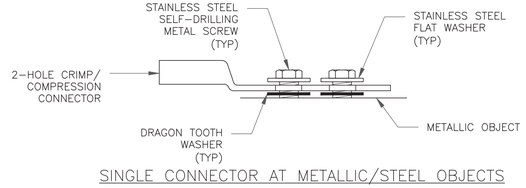
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

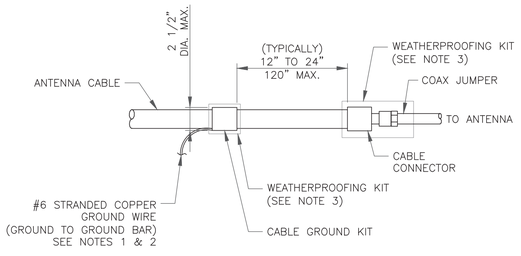


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

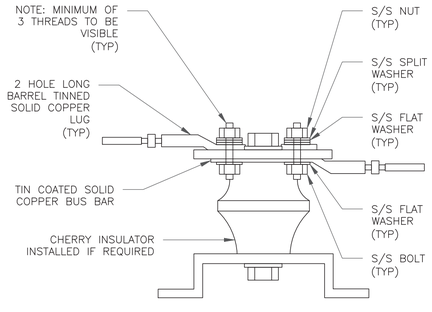
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



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

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B&T ENGINEERING, INC.

SHEET NUMBER: G-2
REVISION: 3

Diagram - Sector	A	Diagram File Name - CT5098_AC_C-band DOD.vsd					
Atoll Site Name -	CT5098	Location Name -	MILFORD NAUGATUK GARDENS	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND

Comments: "Important Note: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/ radio Port connections Field Notice (RF-HW-2016-265)"

Antenna 1
Empty

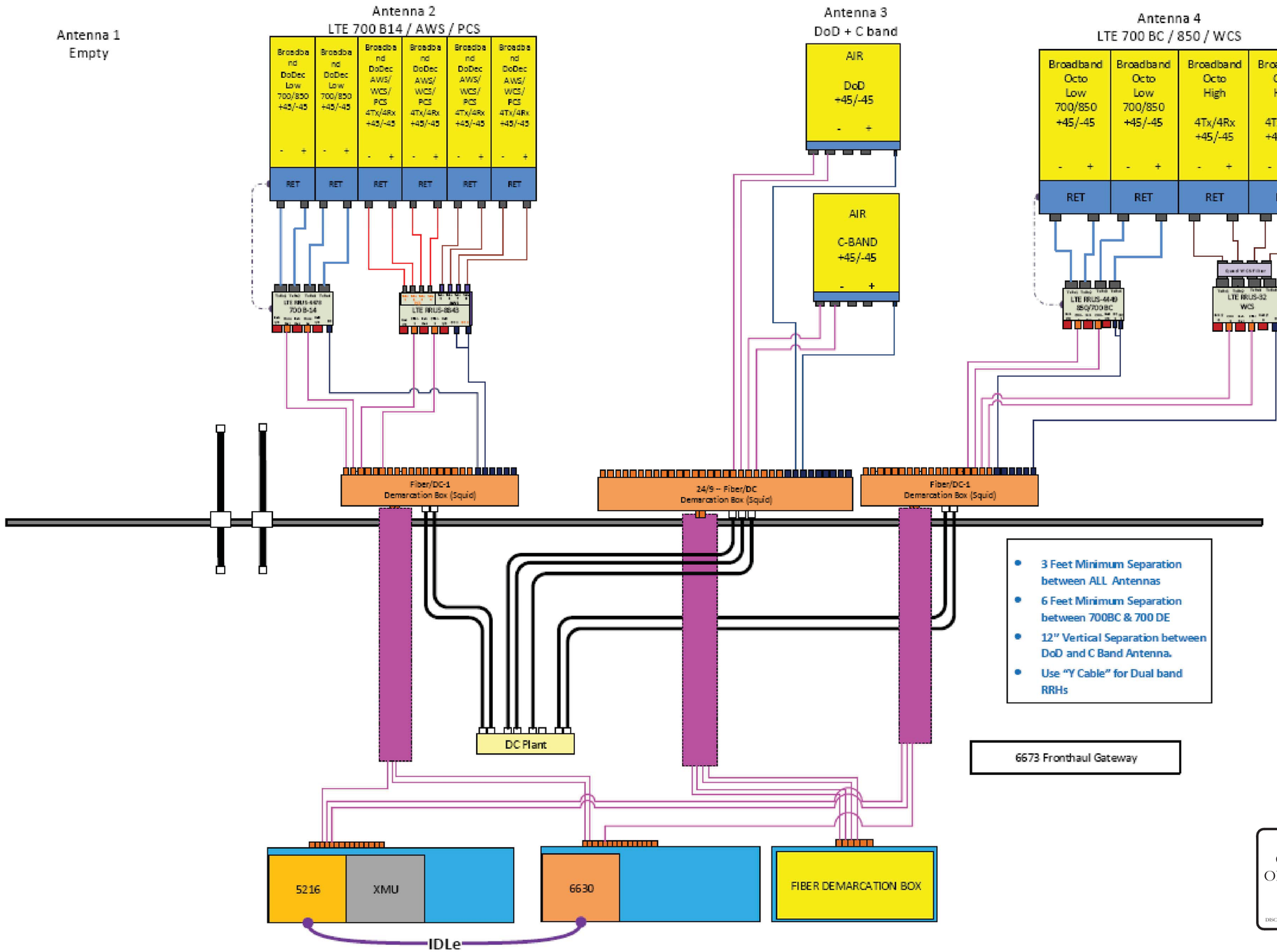


Diagram - Sector	B	Diagram File Name - CT5098_B_C-band DOD.vsd					
Atoll Site Name -	CT5098	Location Name -	MILFORD NAUGATUK GARDENS	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND

Comments: "Important Note: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/ radio Port connections Field Notice (RF-HW-2016-265)"

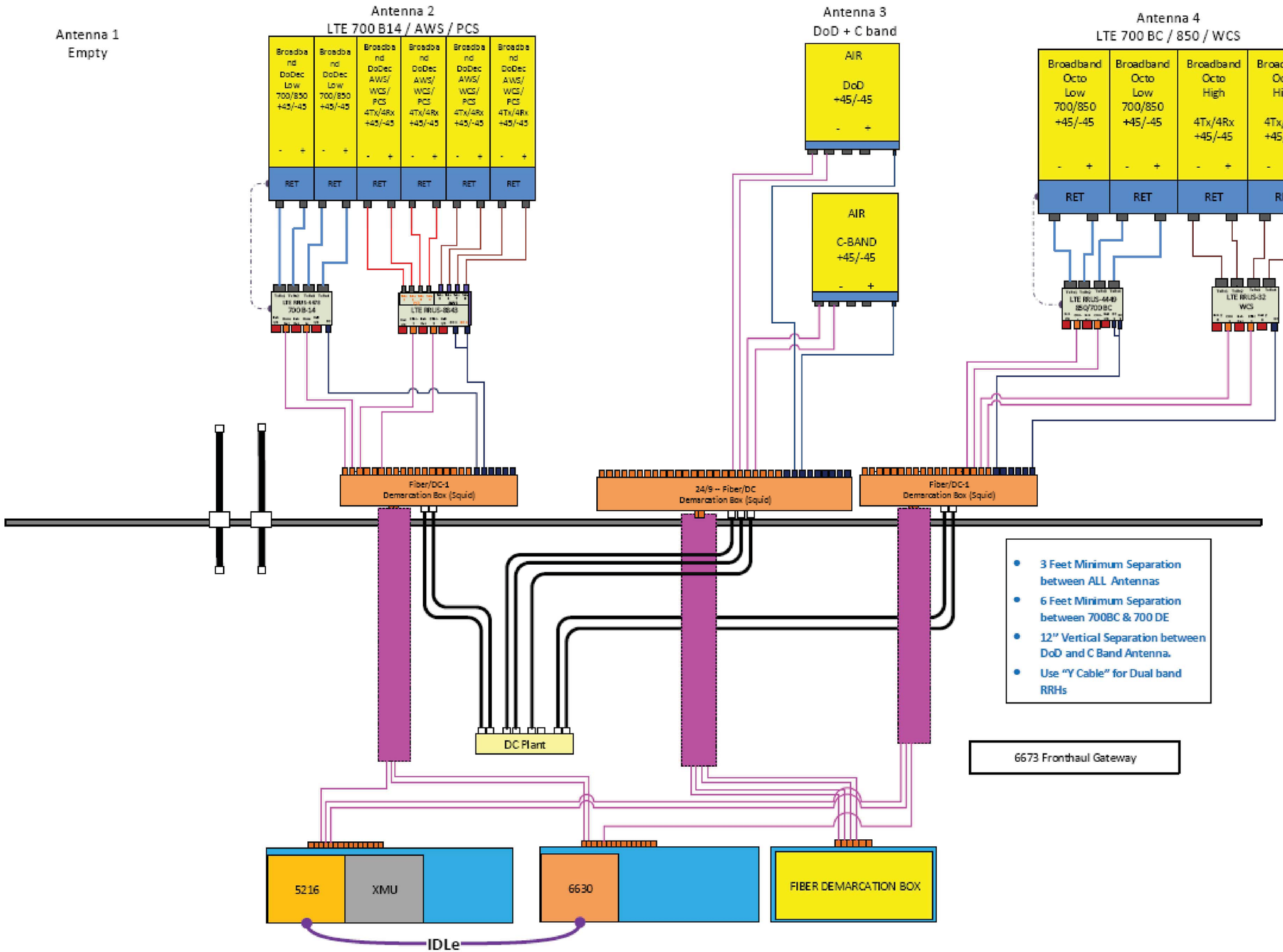


Diagram - Sector	C	Diagram File Name - CT5098_AC_C-band DOD.vsd					
Atoll Site Name -	CT5098	Location Name -	MILFORD NAUGATUK GARDENS	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND
Comments: "Important Note: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/ radio Port connections Field Notice (RF-HW-2016-265)"							

Antenna 1
Empty

Antenna 2
LTE 700 B14 / AWS / PCS

Broadband DoDec Low 700/850 +45/-45 - +
Broadband DoDec Low 700/850 +45/-45 - +
Broadband DoDec AWS/ WCS/ PCS 4Tx/4Rx +45/-45 - +
Broadband DoDec AWS/ WCS/ PCS 4Tx/4Rx +45/-45 - +
Broadband DoDec AWS/ WCS/ PCS 4Tx/4Rx +45/-45 - +
Broadband DoDec AWS/ WCS/ PCS 4Tx/4Rx +45/-45 - +
RET RET RET RET RET RET

Antenna 3
DoD + C band

AIR
DoD
+45/-45
- +

AIR
C-BAND
+45/-45
- +

Antenna 4
LTE 700 BC / 850 / WCS

Broadband Octo Low 700/850 +45/-45 - +
Broadband Octo Low 700/850 +45/-45 - +
Broadband Octo High 4Tx/4Rx +45/-45 - +
Broadband Octo High 4Tx/4Rx +45/-45 - +
RET RET RET RET

Fiber/DC-1 Demarcation Box (Squid)
24/9 – Fiber/DC Demarcation Box (Squid)
Fiber/DC-1 Demarcation Box (Squid)

DC Plant

- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

6673 Fronthaul Gateway

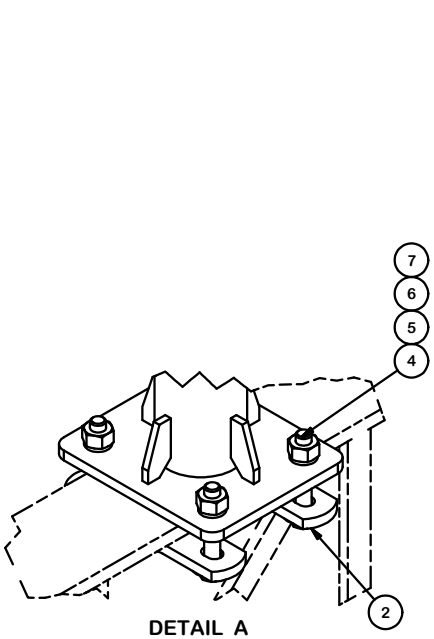
5216 XMU

6630

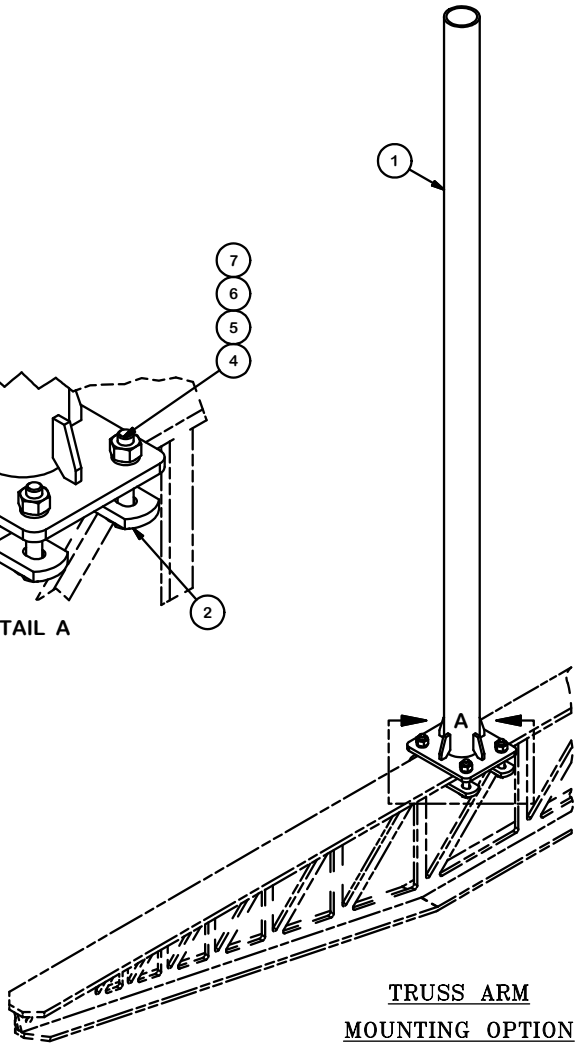
FIBER DEMARCATION BOX

IDLe

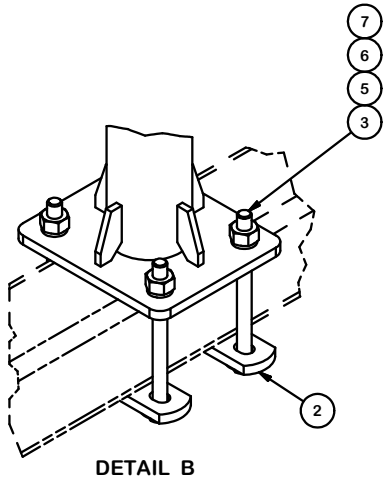
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SAMAST-6	6' STANDOFF ARM MAST WELDMENT		23.19	23.19
2	2	X-115765	5" V-CLAMP	7 1/16 in	1.03	2.05
3	4	G1206	1/2" x 6" HDG HEX BOLT GR5 FULL THREAD	2 in	0.38	1.53
4	4	G1203	1/2" x 3" HDG HEX BOLT GR5 FULL THREAD	3 in	0.22	0.87
5	4	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.14
6	4	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.06
7	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	28.11



DETAIL A



TRUSS ARM
MOUNTING OPTION



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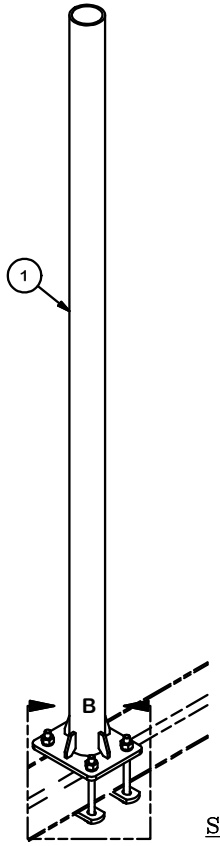


*FITS UP TO
4" SQUARE TUBES

SQUARE TUBE
MOUNTING OPTION

TOLERANCE NOTES

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

DESCRIPTION: 6' STANDOFF ARM MAST

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX; Tampa, FL

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 6/19/2019		SAMAST-6

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 6/19/2019	SAMAST-6

Exhibit D

Structural Analysis Report

Exhibit E

Mount Analysis

Date: **September 13, 2021**

Michael McWilliams
Crown Castle
8000 Avalon Blvd., Suite 700
Alpharetta, GA 30009
(770) 375-4936

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
Infinigy Engineering, PLLC
1033 Watervliet Shaker Road
Albany, NY 12205
518-690-0790
structural@infinigy.com

Subject:	**Mount Analysis Report**	
Carrier Designation:	**AT&T Mobility Equipment Change-Out**	
	Carrier Site Number:	CTL05098
	Carrier Site Name:	BIC DRIVE (SSUSA)
	Carrier FA Number:	10071132
Crown Castle Designation:	**Crown Castle BU Number:**	876342
	Crown Castle Site Name:	BIC DRIVE (SSUSA)
	Crown Castle JDE Job Number:	649412
	Crown Castle Order Number:	556513 Rev. 0
Engineering Firm Designation:	**Infinigy Engineering, PLLC Report Designation:** 1039-Z0001-B	
Site Data:	**111 School House Road, a/k/a Bic Drive, Milford, New Haven County, CT, 06460** **Latitude 41°12'46.06", Longitude -73°5'7.10"**	
Structure Information:	**Tower Height & Type:**	**140.0 ft Monopole**
	Mount Elevation:	**122.0 ft**
	Mount Type:	**14.0 ft Platform**

Dear Michael McWilliams,

Infinigy Engineering, PLLC is pleased to submit this **"Mount Analysis Report"** to determine the structural integrity of AT&T Mobility's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

Platform **Sufficient**

This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 120 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Andrew Gloriani, E.I.T.

Respectfully Submitted by:
Emmanuel Poulin, P.E.
518-690-0790
structural@infinigy.com
CT PE License No. 22947

9/13/2021

TABLE OF CONTENTS

1) INTRODUCTION

This is an existing 3 sector 14.0 ft Platform, mapped by Infinigy Engineering.

The mount has been modified per reinforcement drawings prepared by B+T Group in March of 2018. Reinforcement consists of installation of a platform reinforcement kit (Site Pro 1 Part No. PRK-SFS) with a 2.0 STD (2.375" O.D) horizontal pipe with pipe crossover kits for all sectors.

2) ANALYSIS CRITERIA

Building Code: 2018 IBC
TIA-222 Revision: TIA-222-H
Risk Category: II
Ultimate Wind Speed: 120 mph
Exposure Category: C
Topographic Factor at Base: 1.0
Topographic Factor at Mount: 1.0
Ice Thickness: 1.0 in
Wind Speed with Ice: 50 mph
Seismic S_s: 0.203
Seismic S_1: 0.053
Live Loading Wind Speed: 30 mph
Man Live Load at Mid/End-Points: 250 lb
Man Live Load at Mount Pipes: 500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
122.0	125.0	3	CCI Antennas	DMP65R-BU6D	14.0 ft Platform Addition of (1) 8' pipe mount per sector
		3	CCI Antennas	TPA65R-BU6D	
		3	Ericsson	AIR 6419 B77G	
		3	Ericsson	AIR 6449 N77	
		3	Commscope	WCS-IMFQ-AMT-43	
		3	Ericsson	RADIO 4478 B14	
		3	Ericsson	RRUS 32 B30	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 8843 B2/B66A	
		3	Kaelus	DBC0061F1V51-2	
		2	Raycap	DC6-48-60-18-8F	
		1	Raycap	DC9-48-60-24-8C-EV	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	AT&T Mobility Application	556513 Rev. 0	CCI Sites
Loading Document	AT&T Mobility	RFDS ID: 4387642	TSA
Mount Mapping Documents	Infinigy Engineering	9725836	CCI Sites
Mount Modification Drawings	B+T Group	7527370	CCI Sites

3.1) Analysis Method

RISA-3D (Version 19.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

Infinigy Mount Analysis Tool V2.1.6, a tool internally developed by Infinigy, was used to calculate wind loading on all appurtenances, dishes and mount members for various loading cases. Selected output from the analysis is included in Appendix B “Software Input Calculations”.

This analysis was performed in accordance with Crown Castle’s ENG-SOW-10208 *Tower Mount Analysis* (Revision B).

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) 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.
4) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
5) Prior structural modifications to the tower mounting system are assumed to be installed as shown per available data.
6) Steel grades have been assumed as follows, unless noted otherwise:

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM A500 (GR B-46)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Infinigy Engineering, PLLC should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform, All Sectors)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1, 2	Mount Pipe(s)	M50	122.0	58.0	Pass
	Horizontal(s)	M6		90.6	Pass
	Standoff(s)	MS5		27.9	Pass
	Handrail(s)	MR3		37.9	Pass
	Top V-Kit(s)	M30		8.5	Pass
	Bottom V-Kit(s)	M61		13.9	Pass
	Mount Connection(s)	-		23.1	Pass

Structure Rating (max from all components) =	90.6%

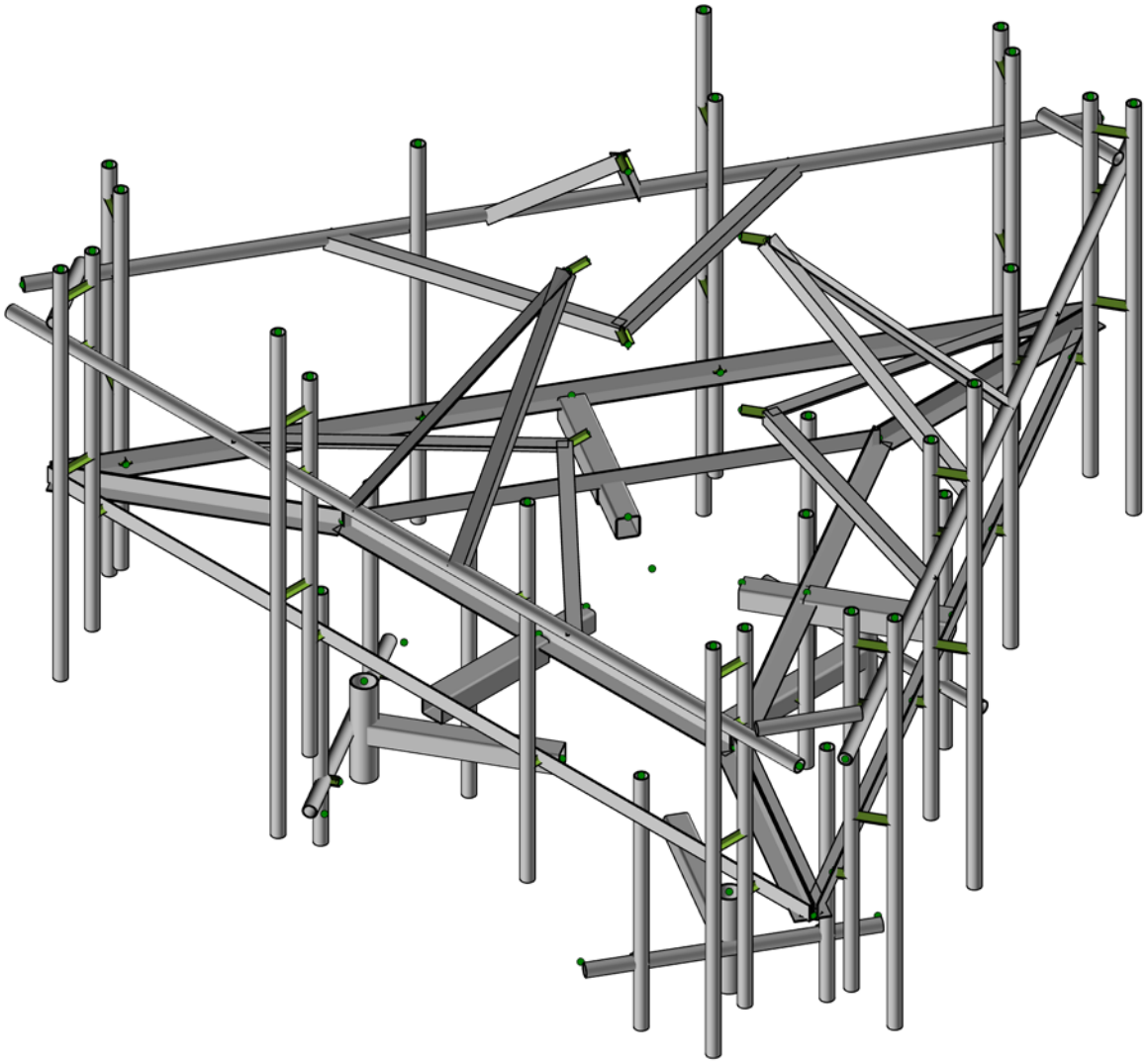
Notes:
1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
2) See additional documentation in “Appendix D - Additional Calculations” for detailed mount connection calculations.

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A

WIRE FRAME AND RENDERED MODELS



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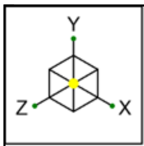

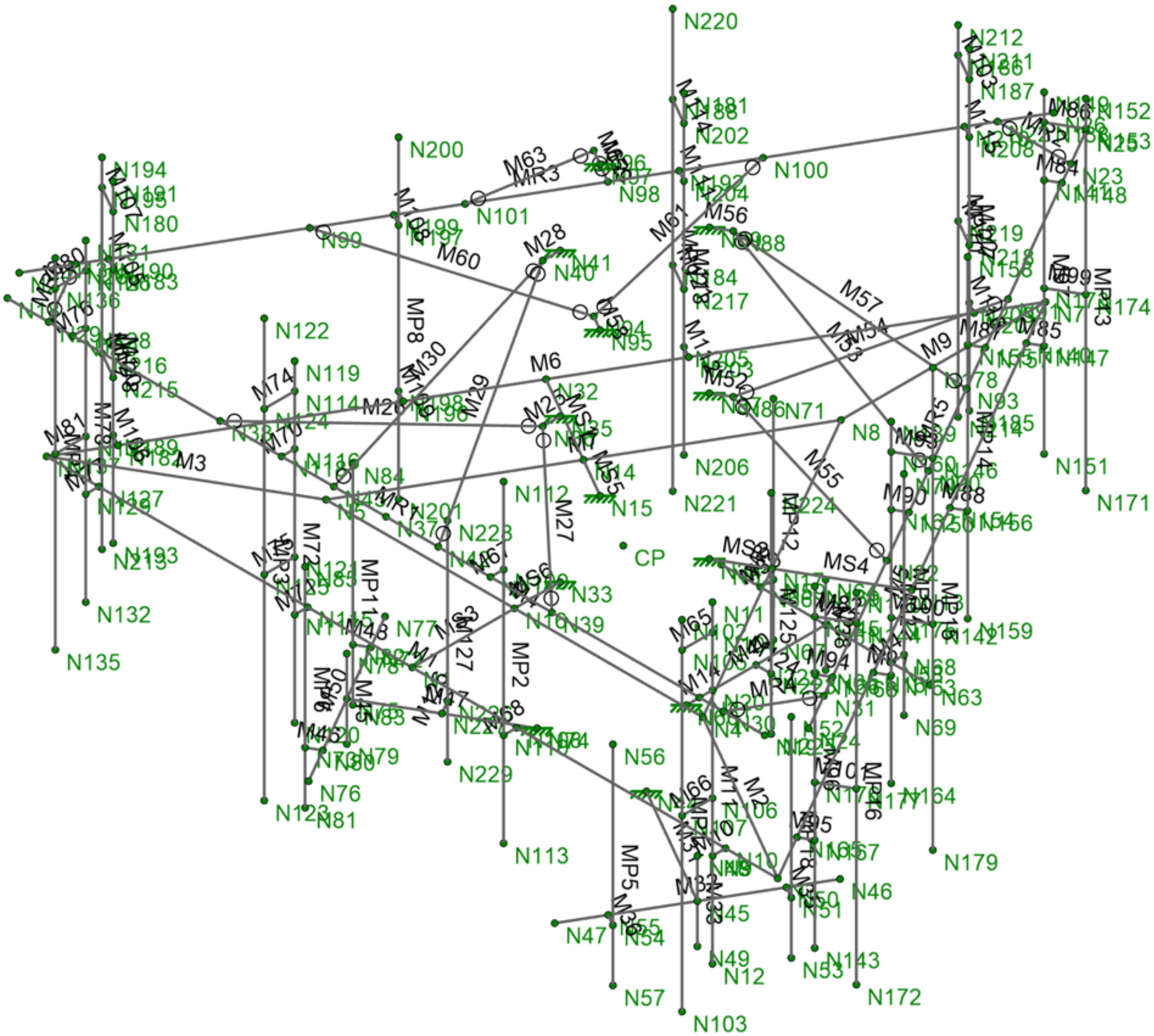

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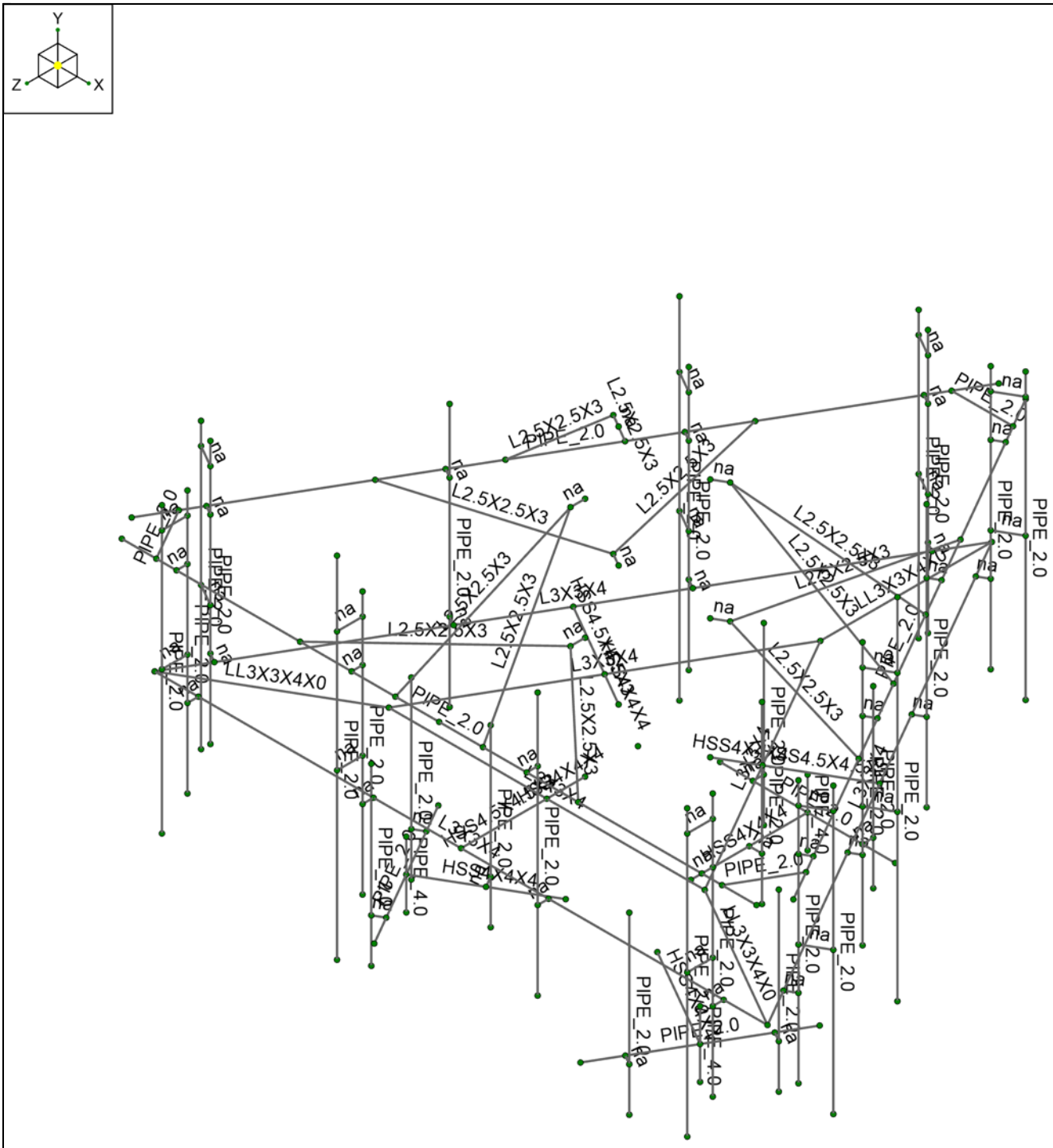

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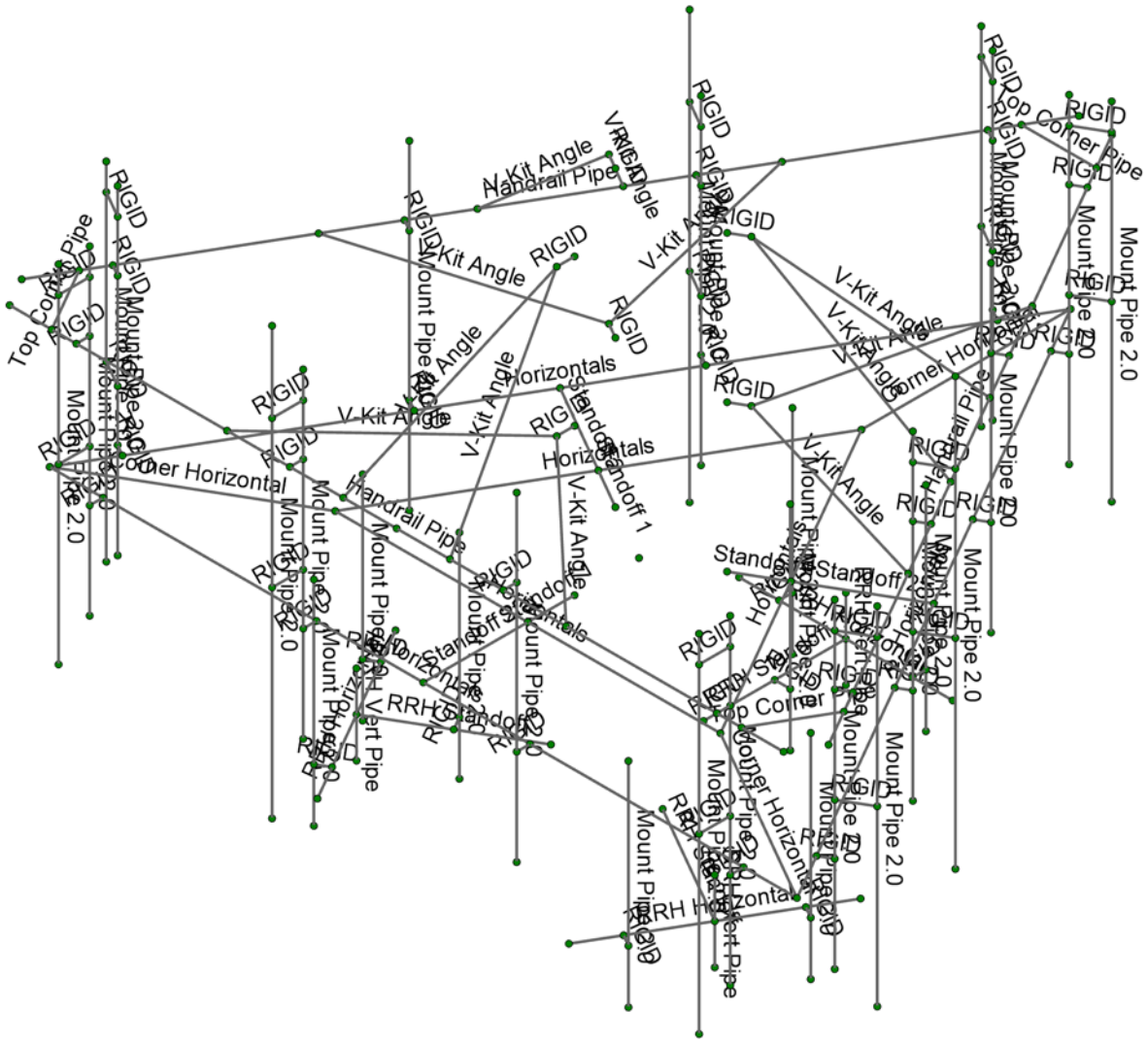

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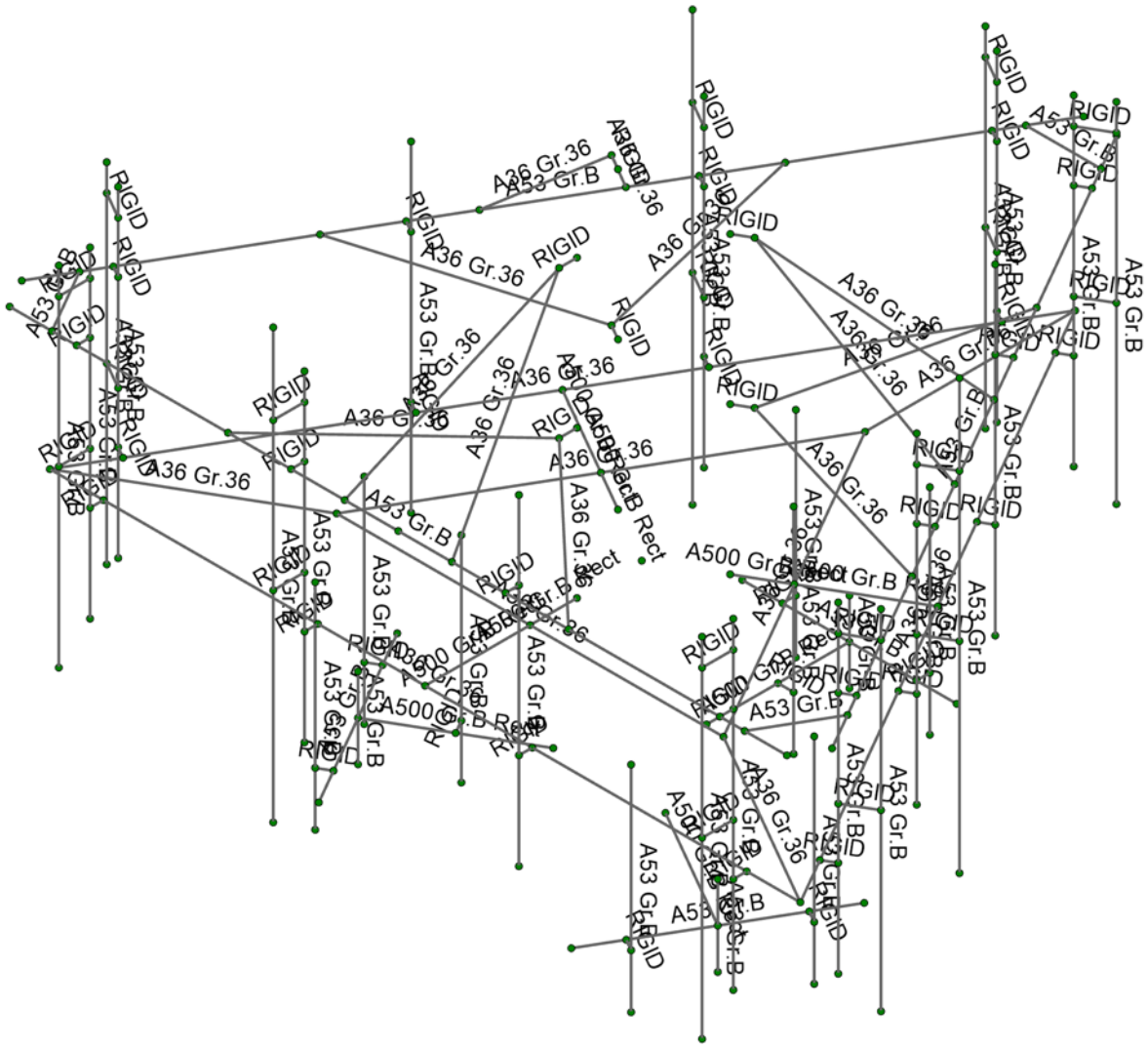

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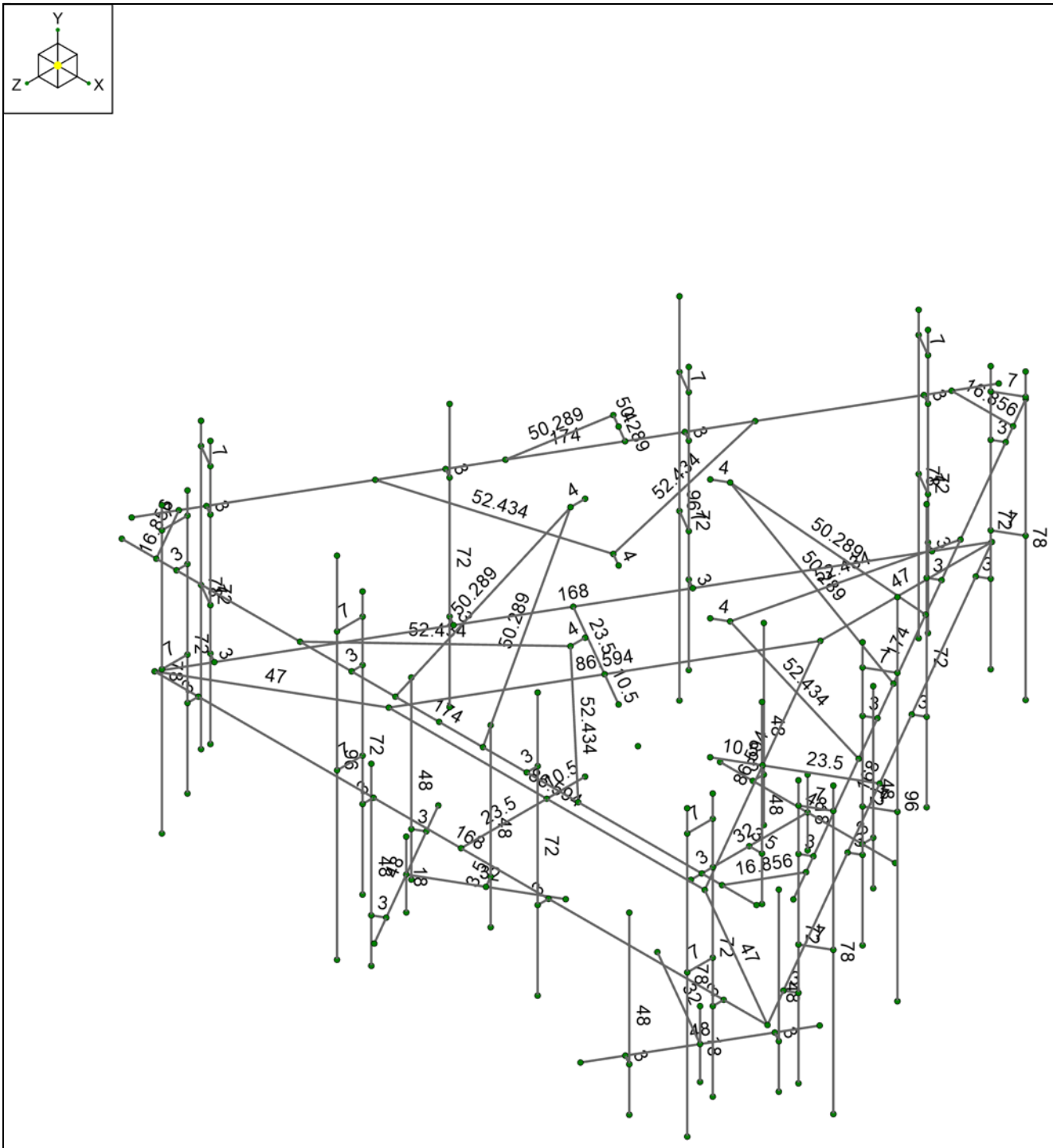

Member Length (in) Displayed

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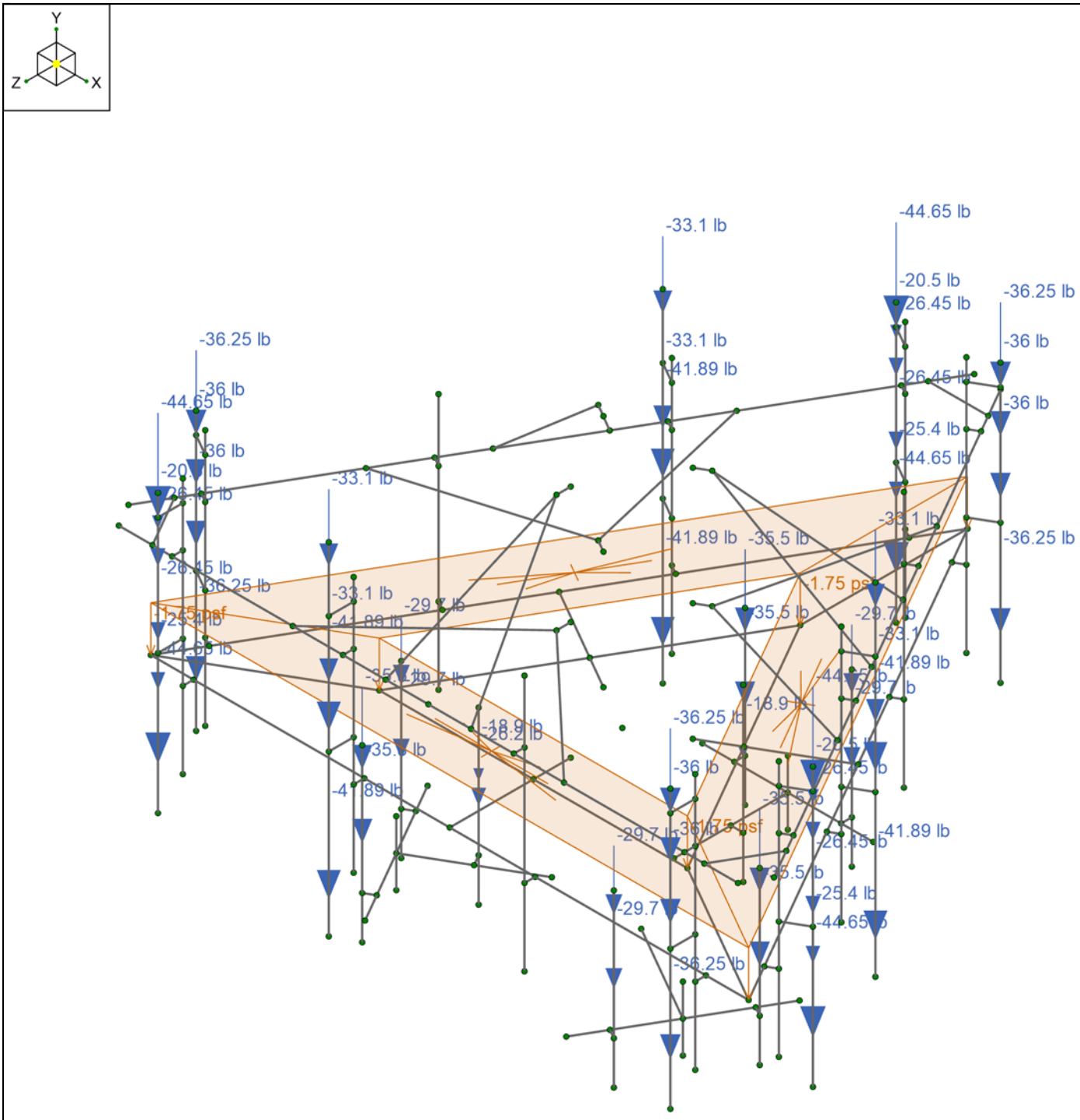

Loads: BLC 1, Self Weight

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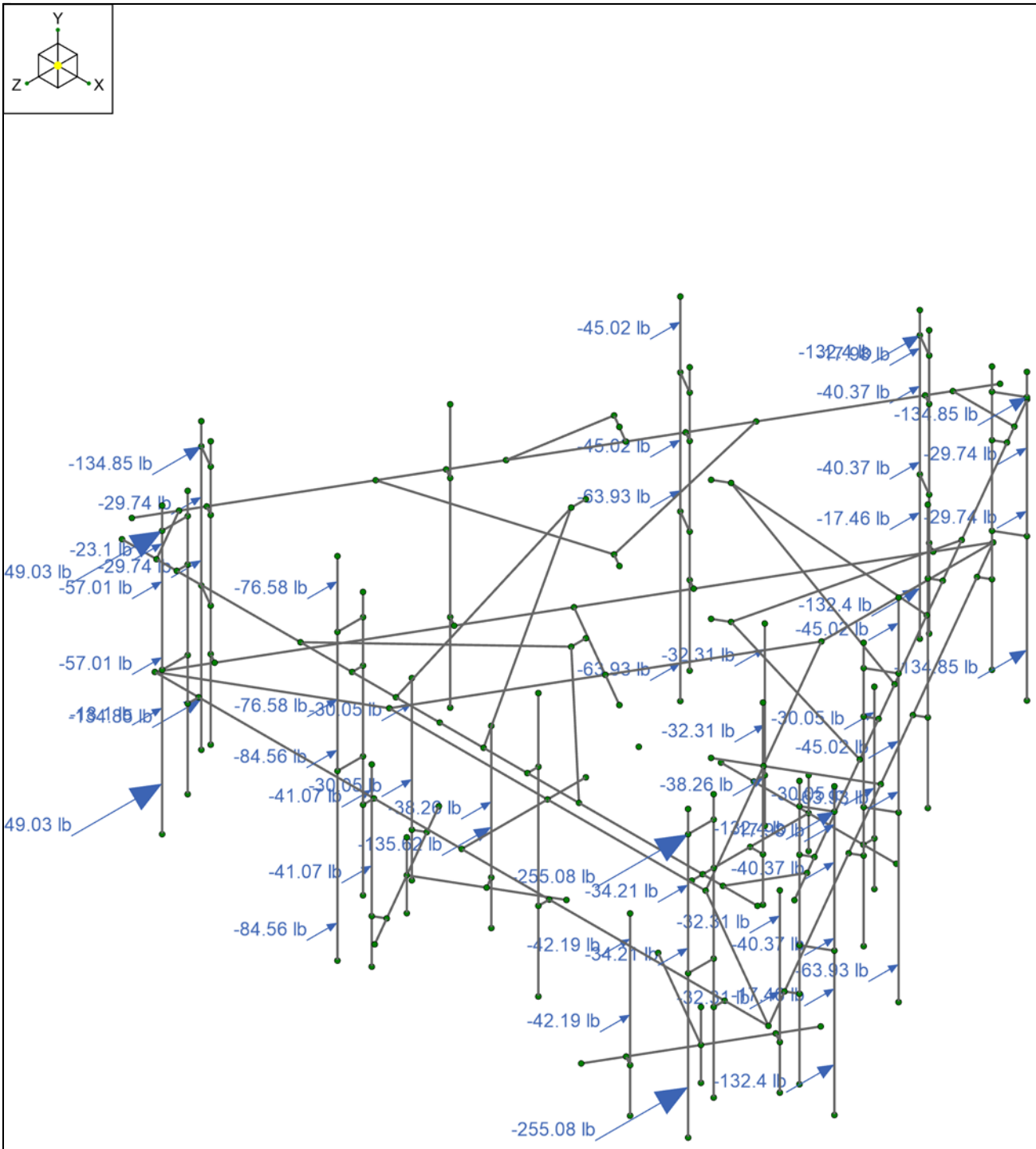

Loads: BLC 2, Wind Load AZI 0

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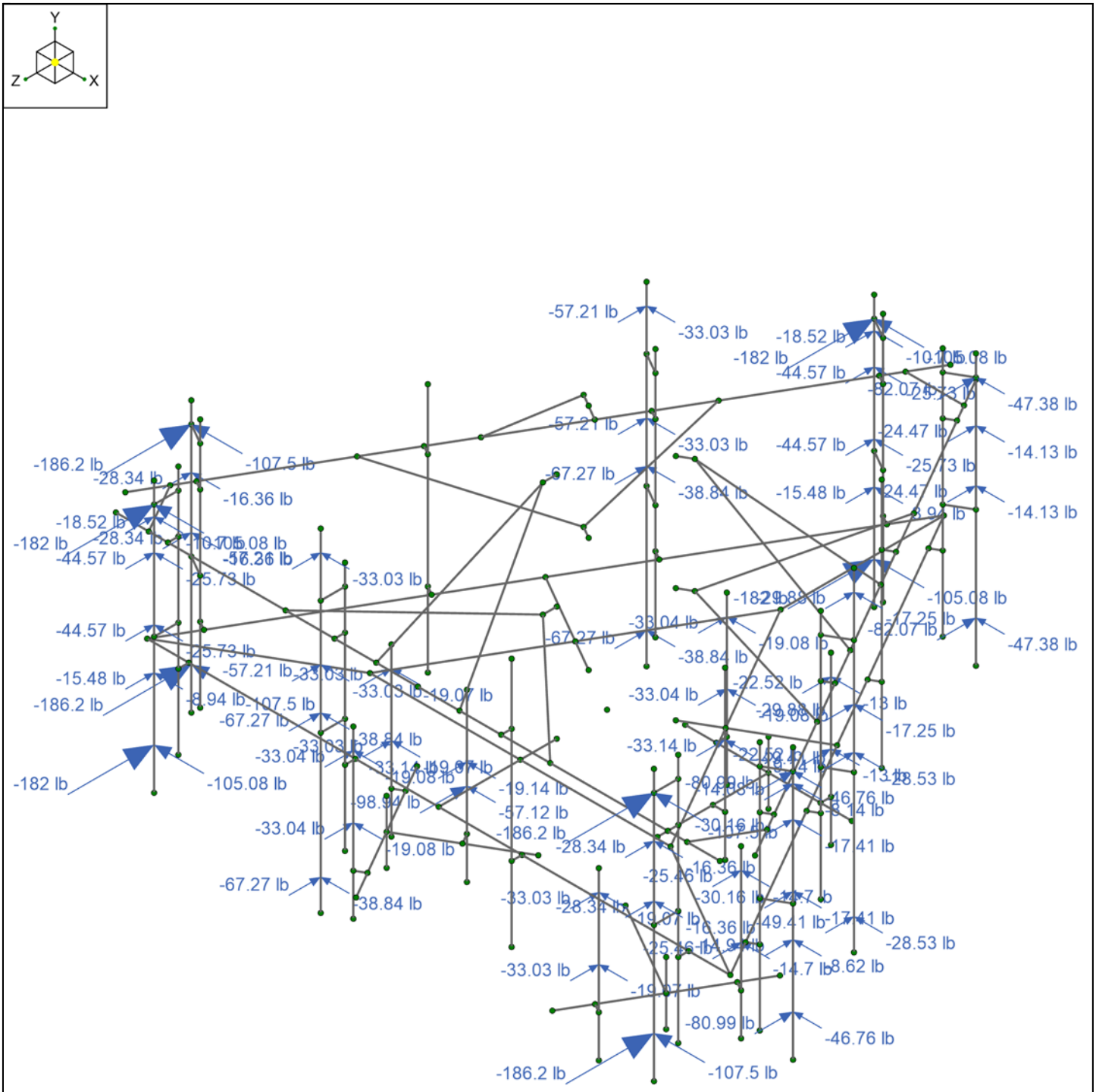

Loads: BLC 3, Wind Load AZI 30

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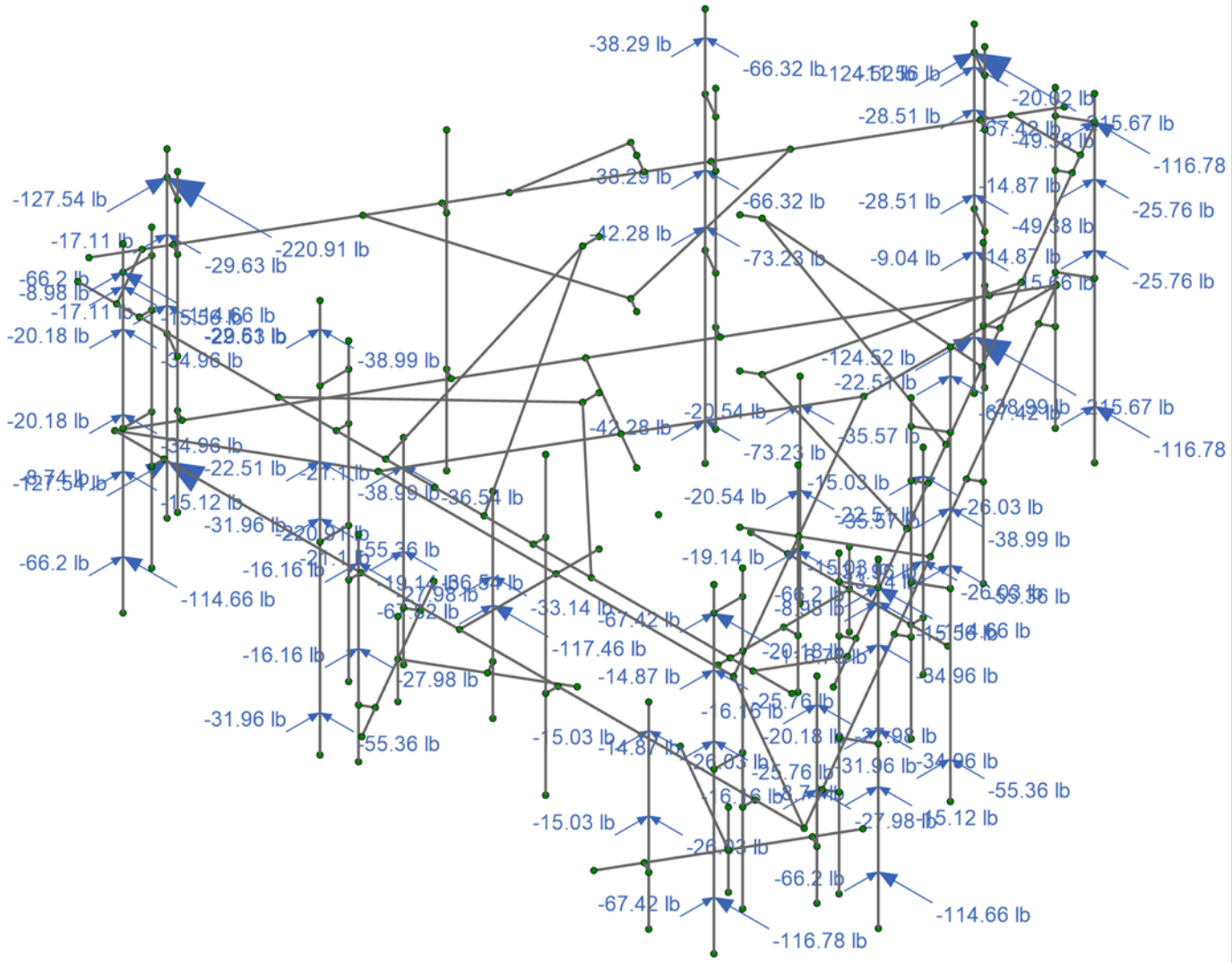

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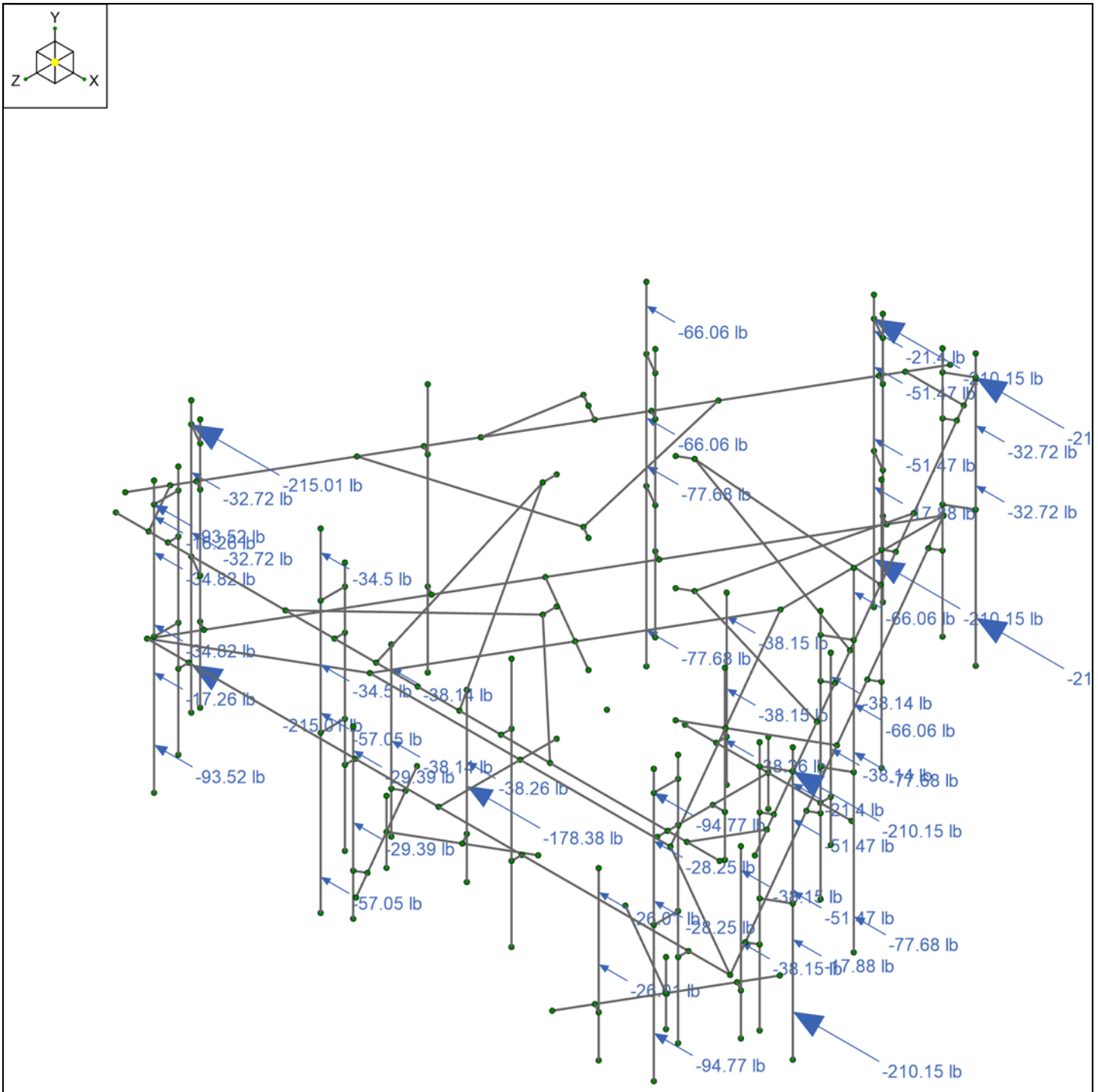

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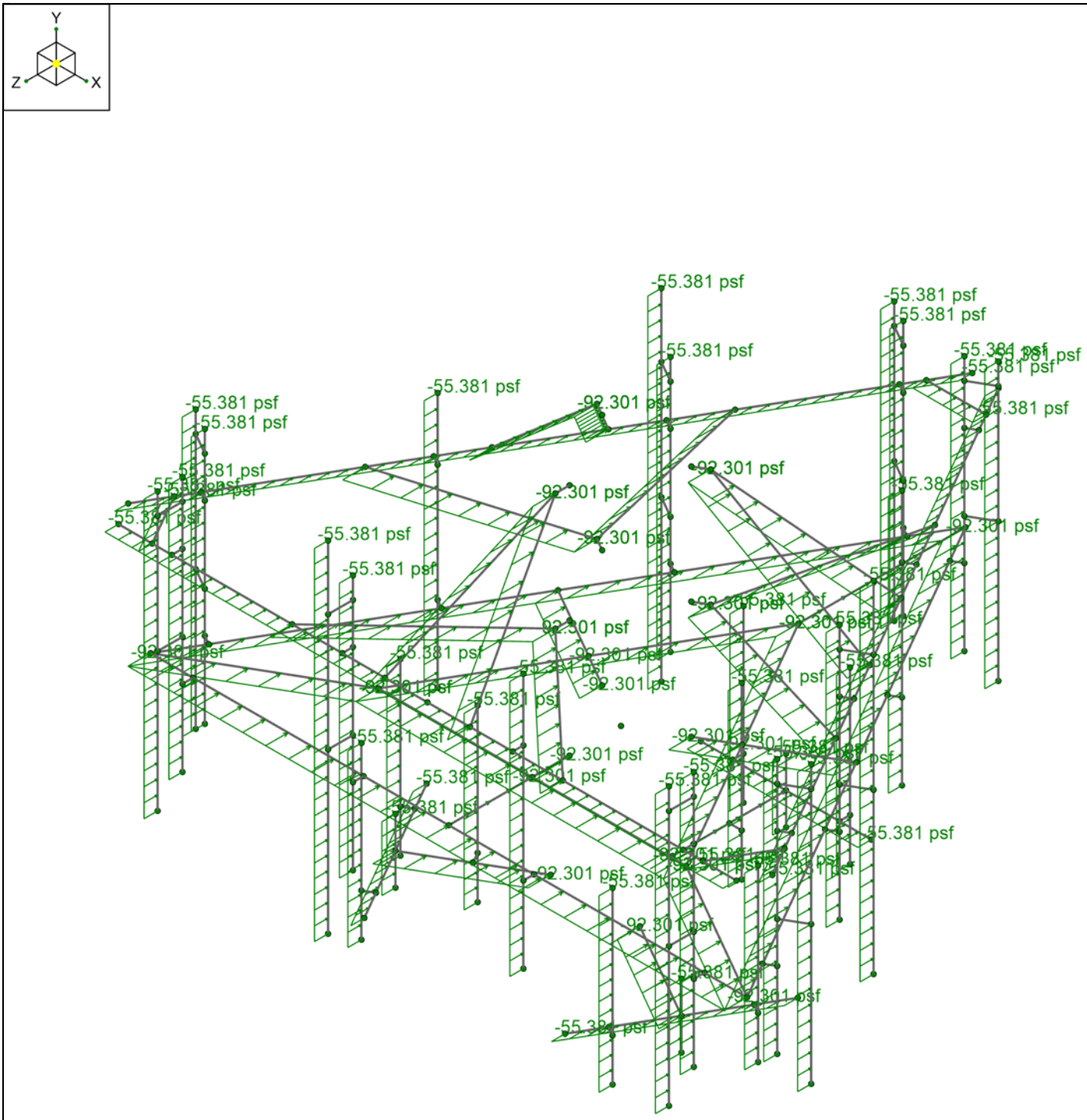

Loads: BLC 14, Distr. Wind Load Z

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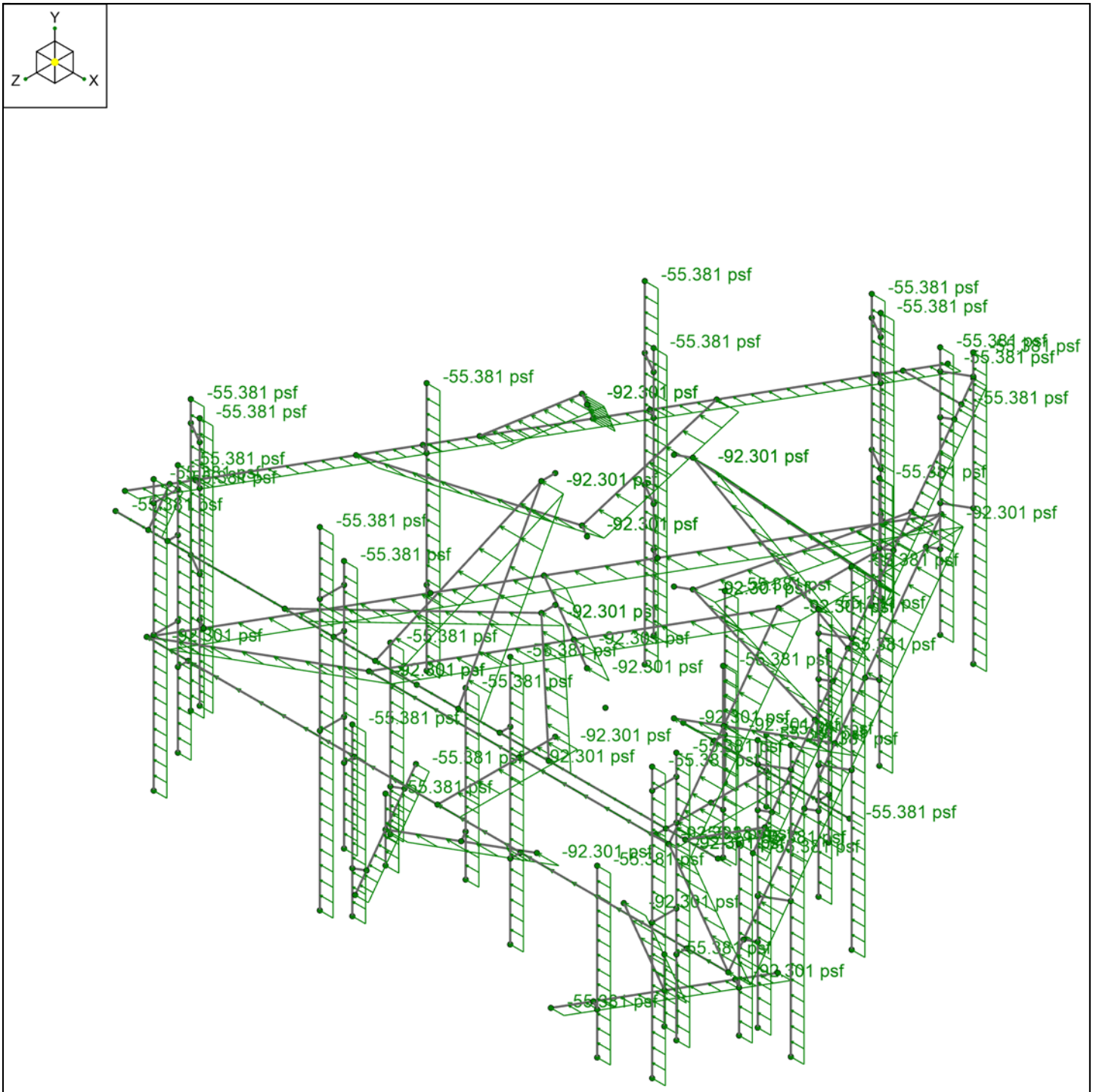

Loads: BLC 15, Distr. Wind Load X

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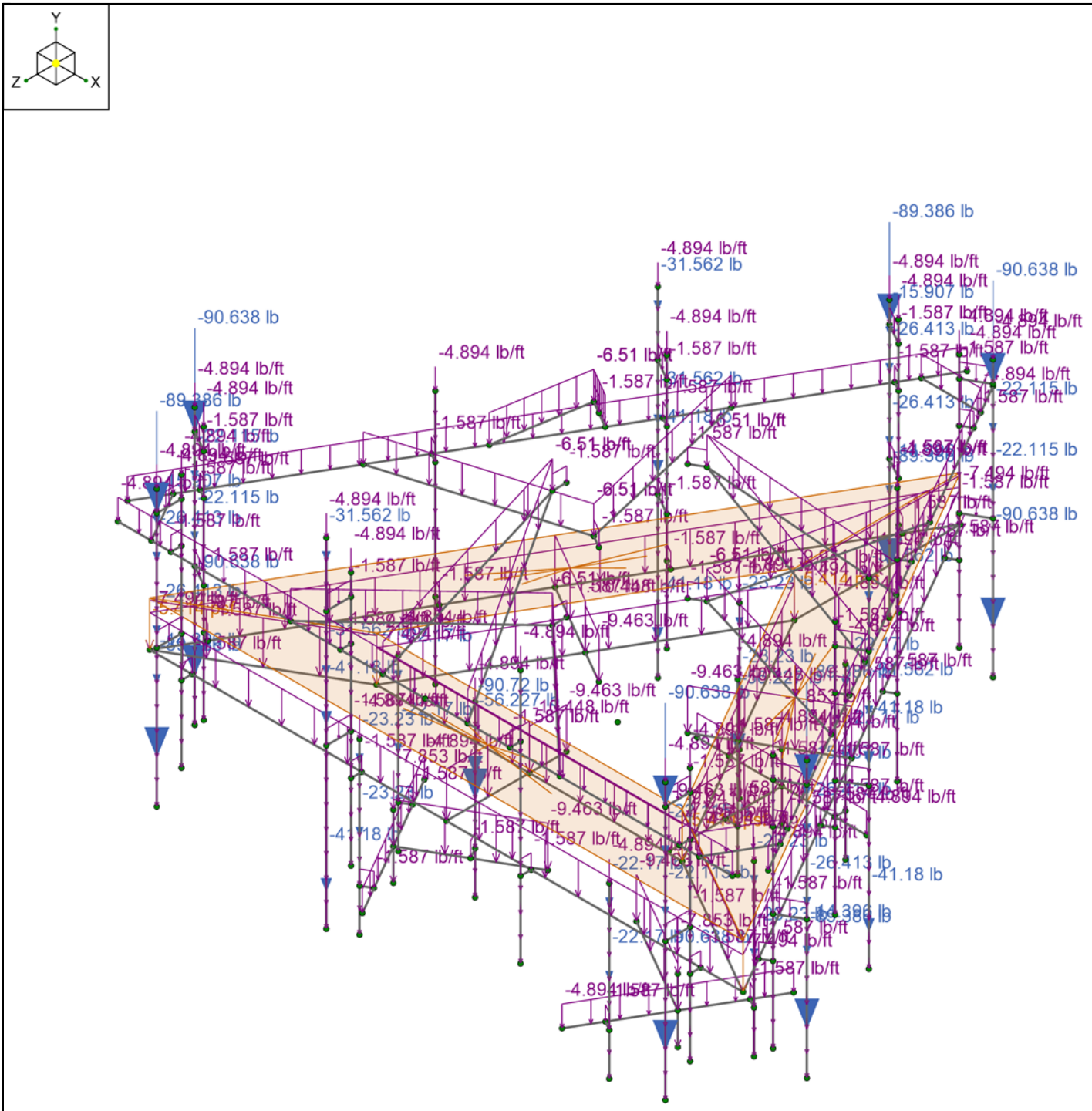

Loads: BLC 16, Ice Weight

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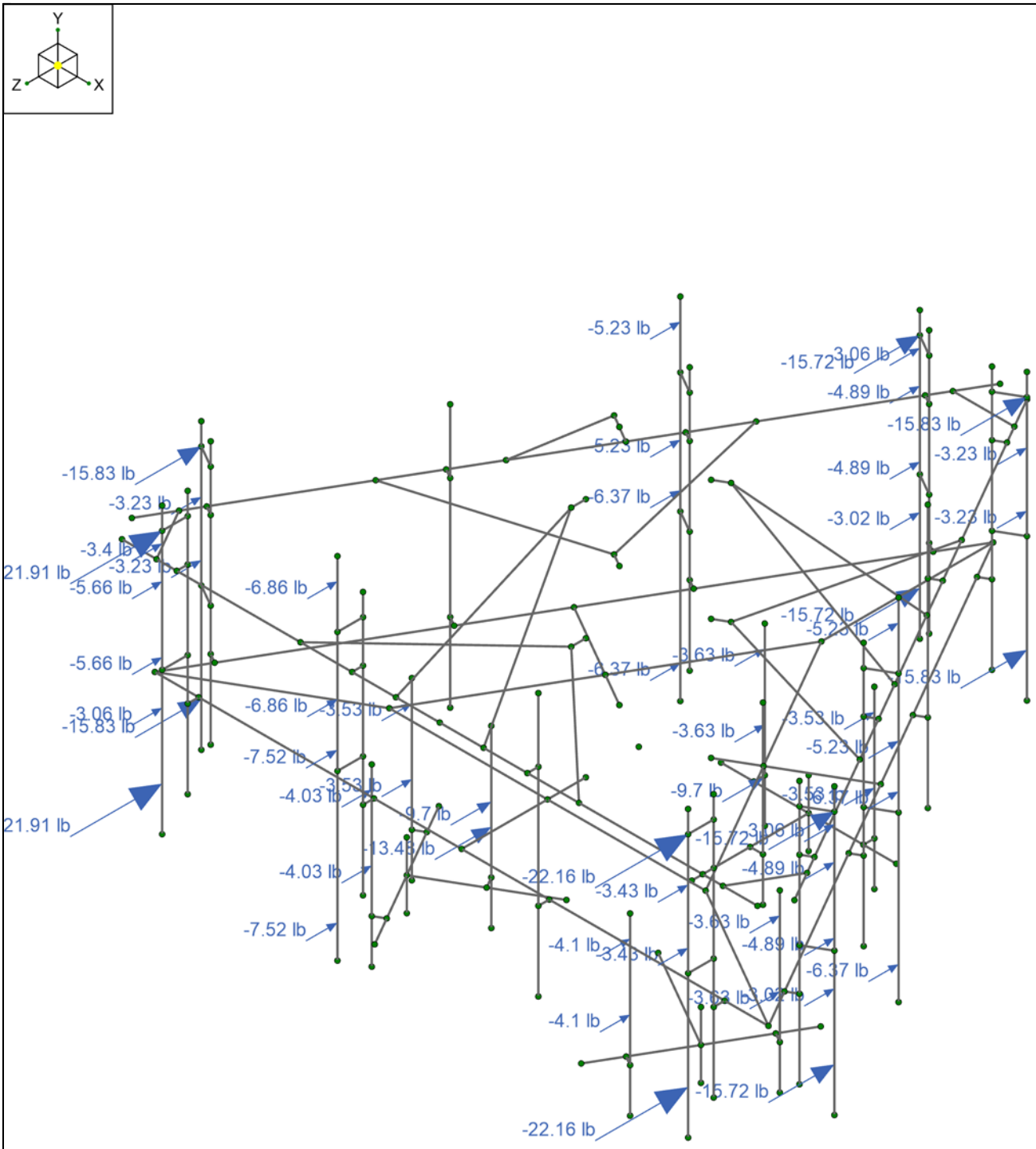

Loads: BLC 17, Ice Wind Load AZI 0

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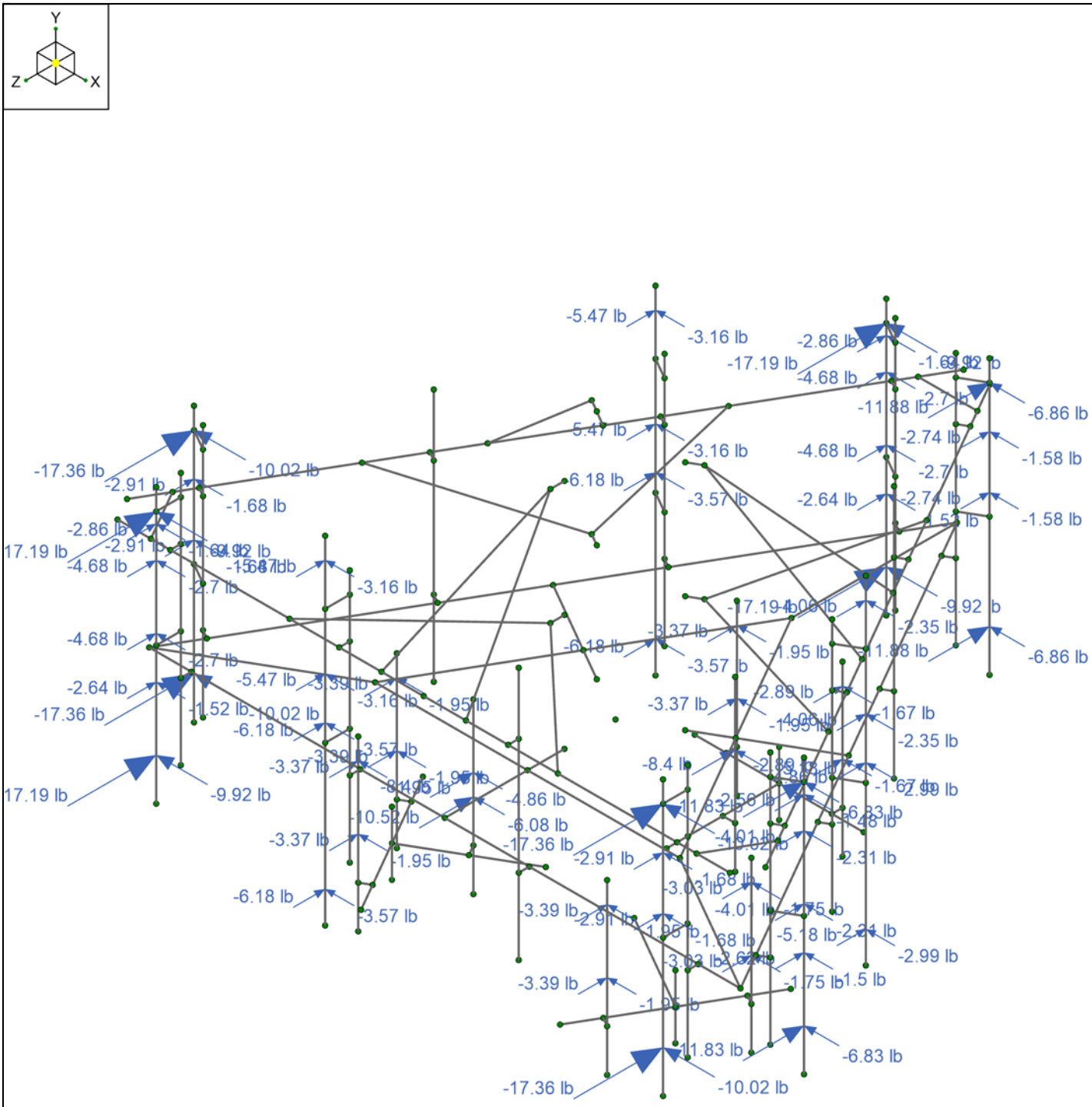

Loads: BLC 18, Ice Wind Load AZI 30

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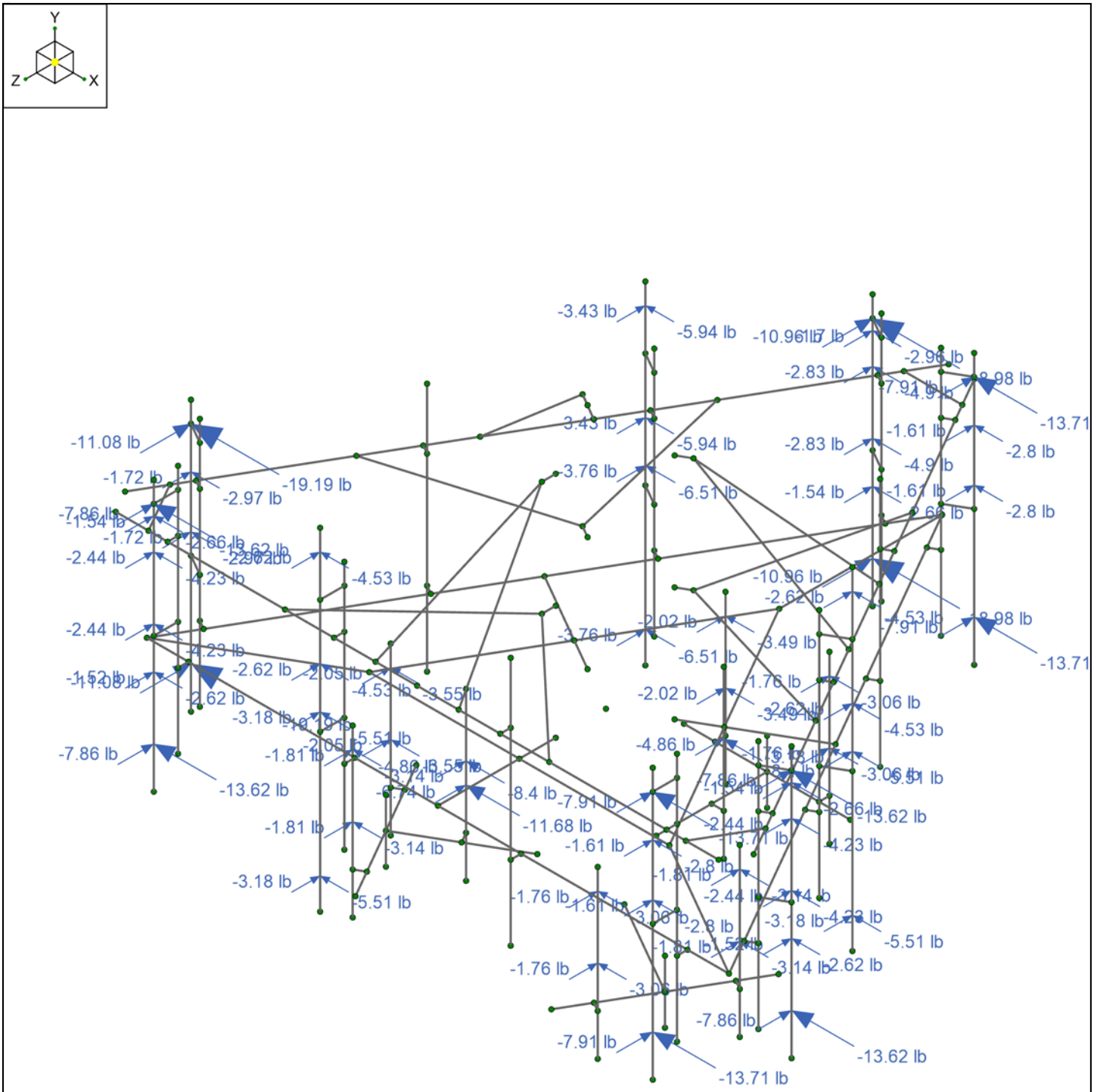

Loads: BLC 19, Ice Wind Load AZI 60

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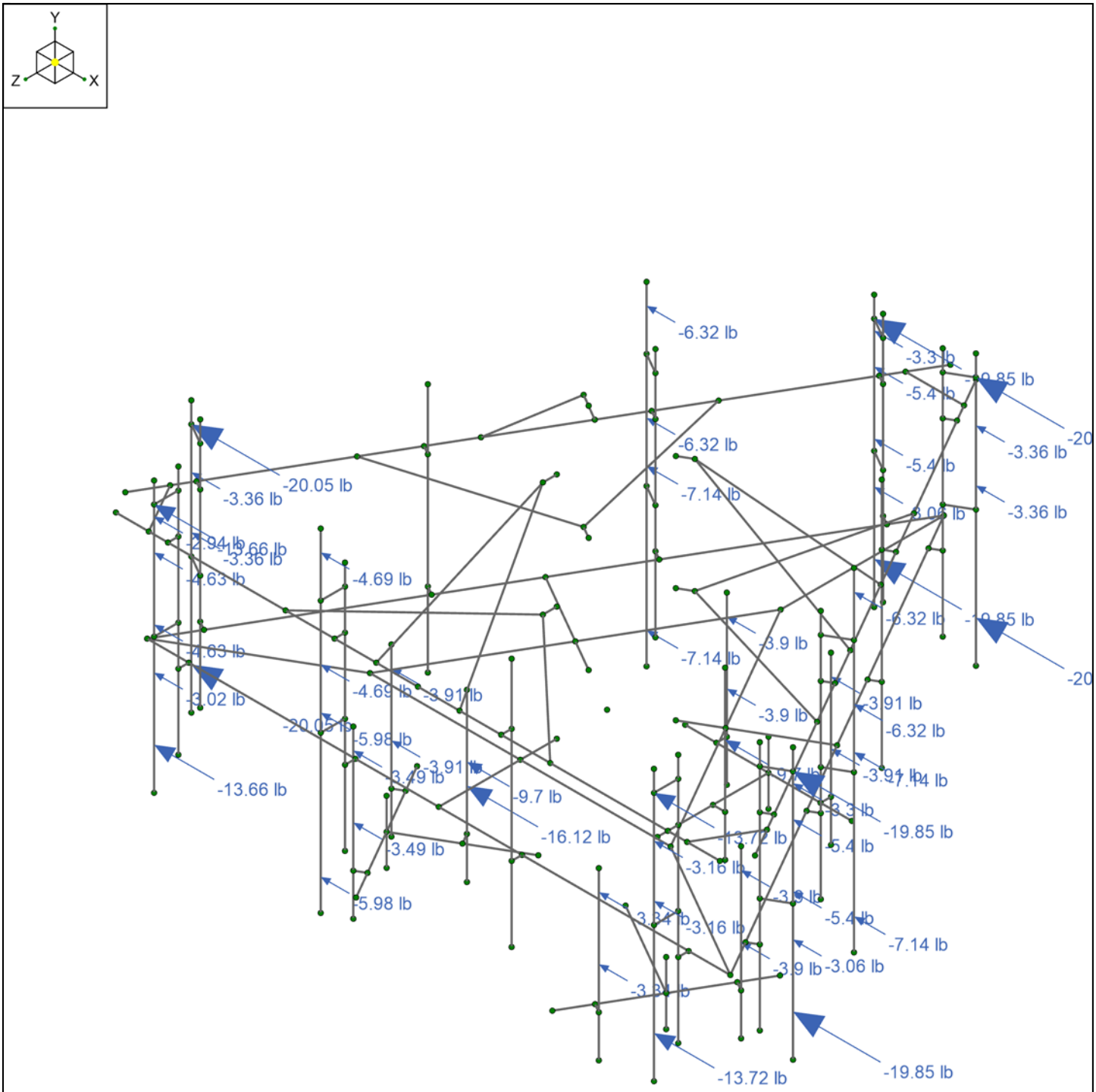

Loads: BLC 20, Ice Wind Load AZI 90

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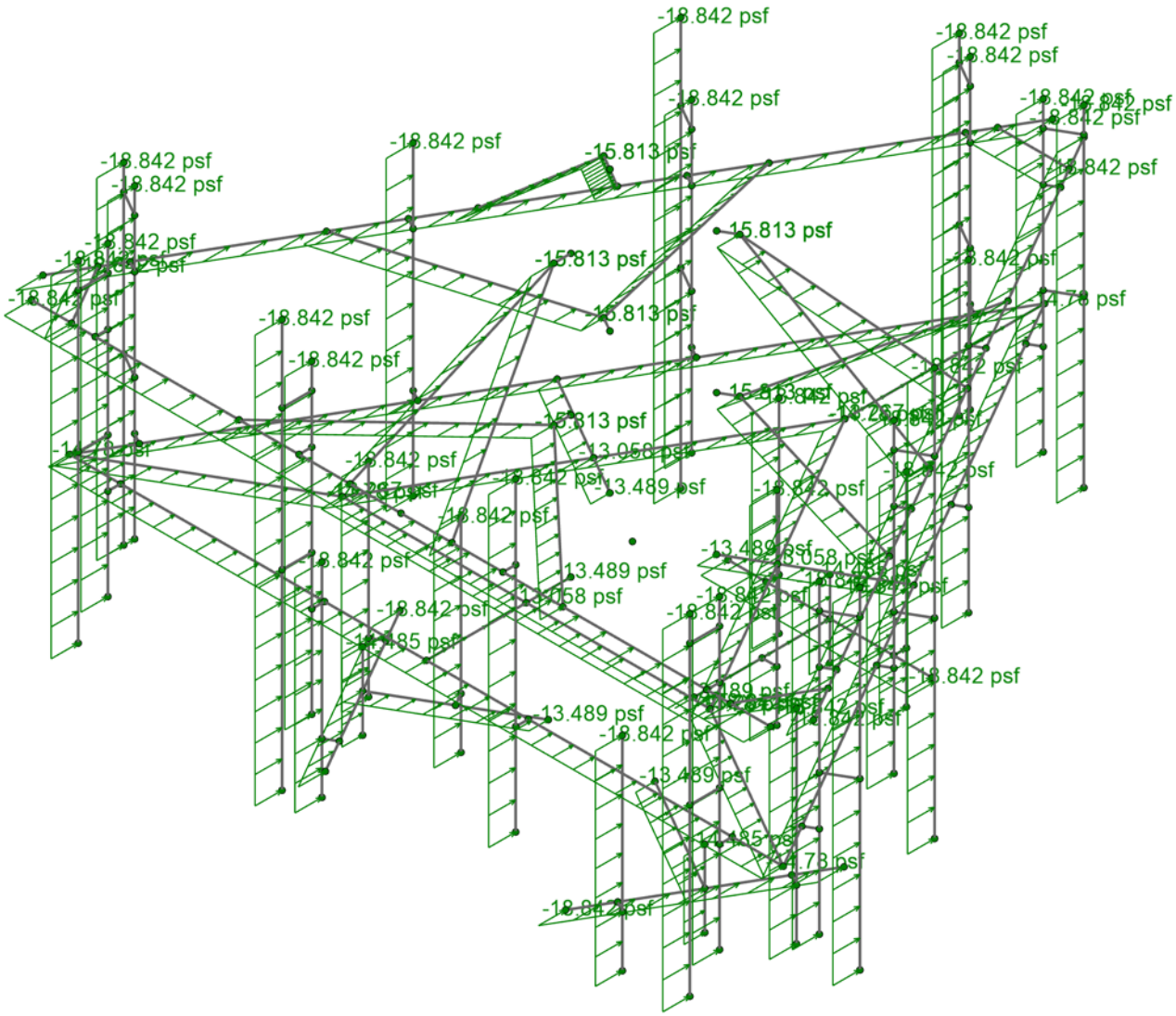

Loads: BLC 29, Distr. Ice Wind Load Z

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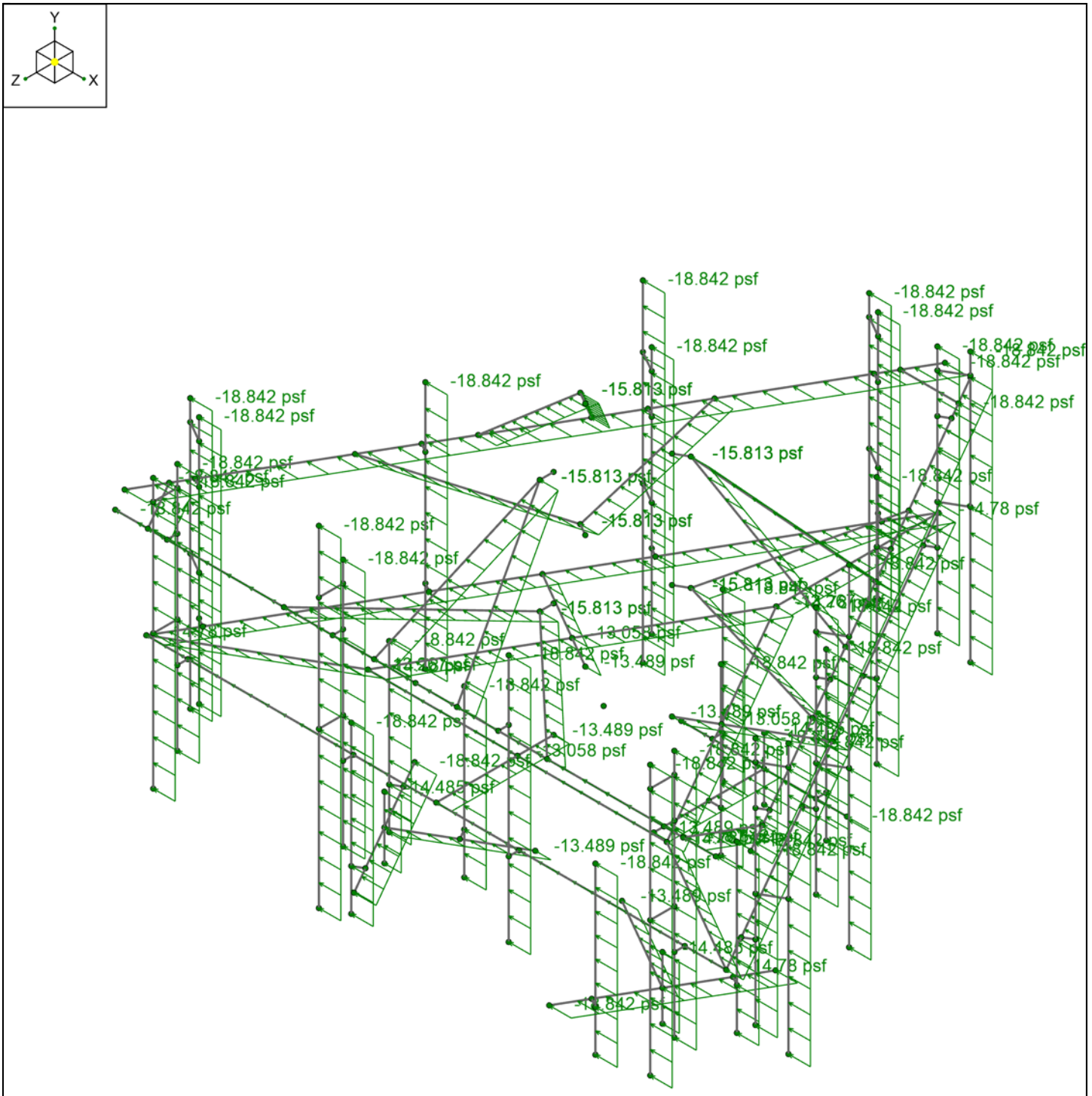

Loads: BLC 30, Distr. Ice Wind Load X

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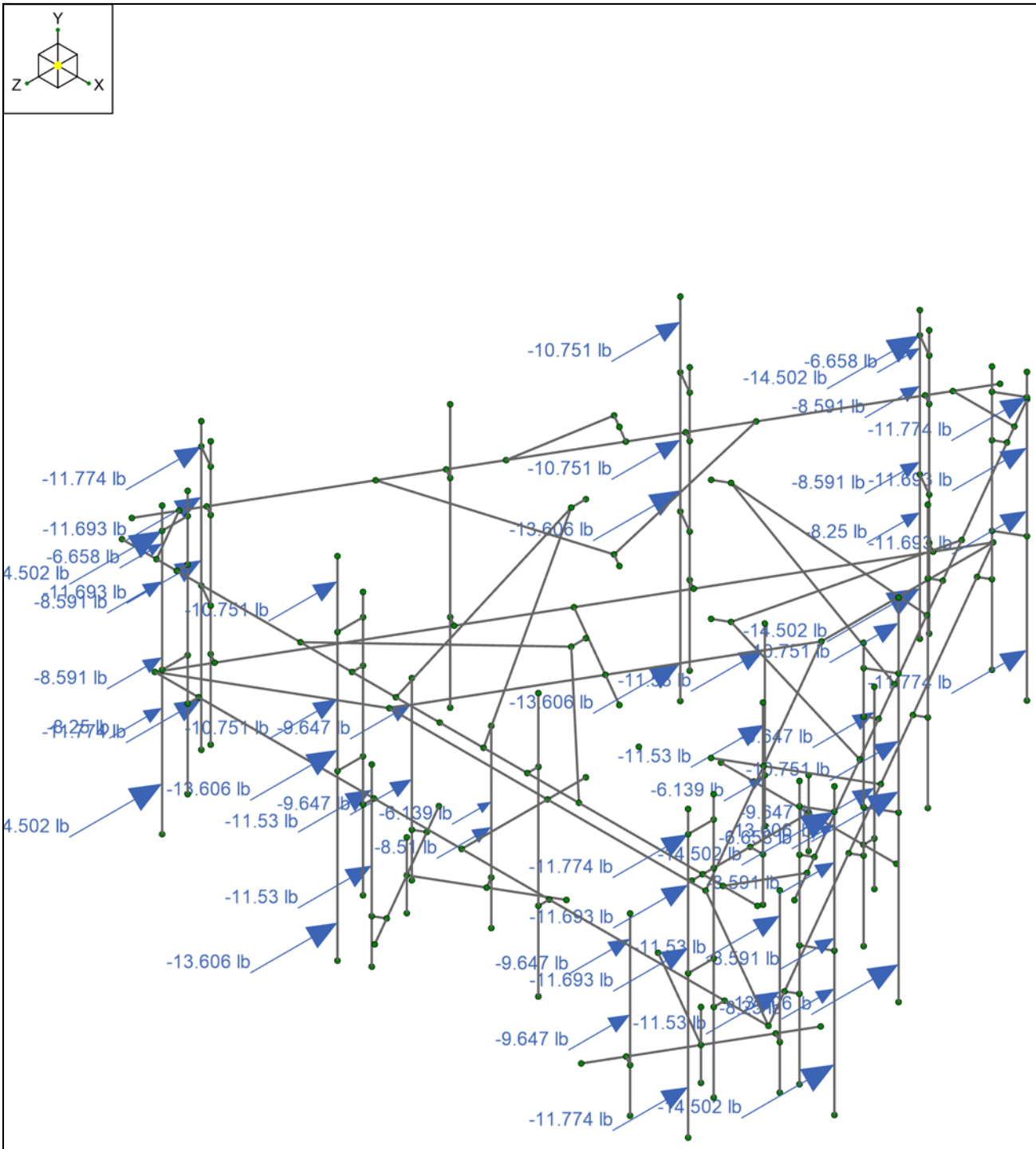

Loads: BLC 31, Seismic Load Z

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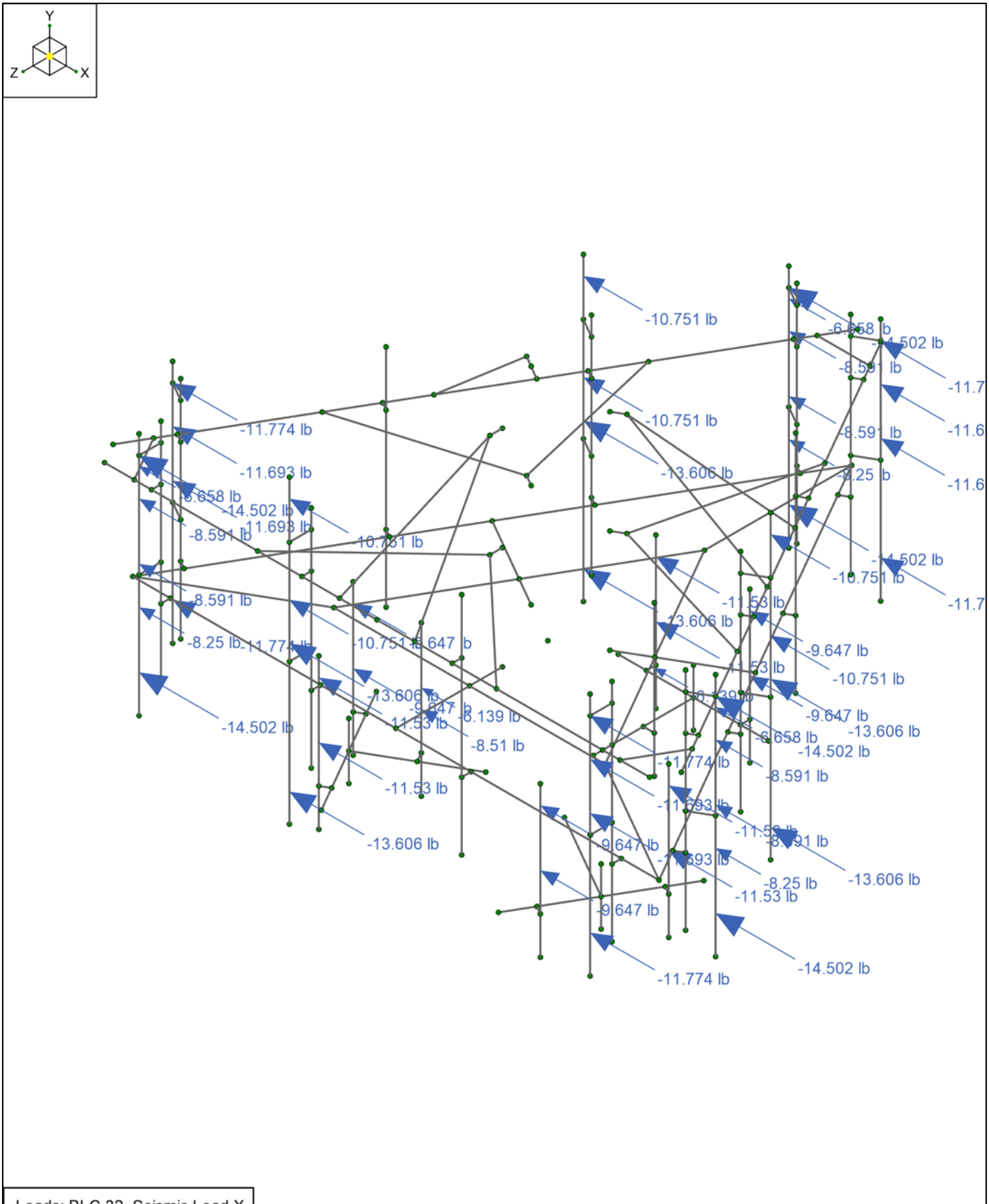

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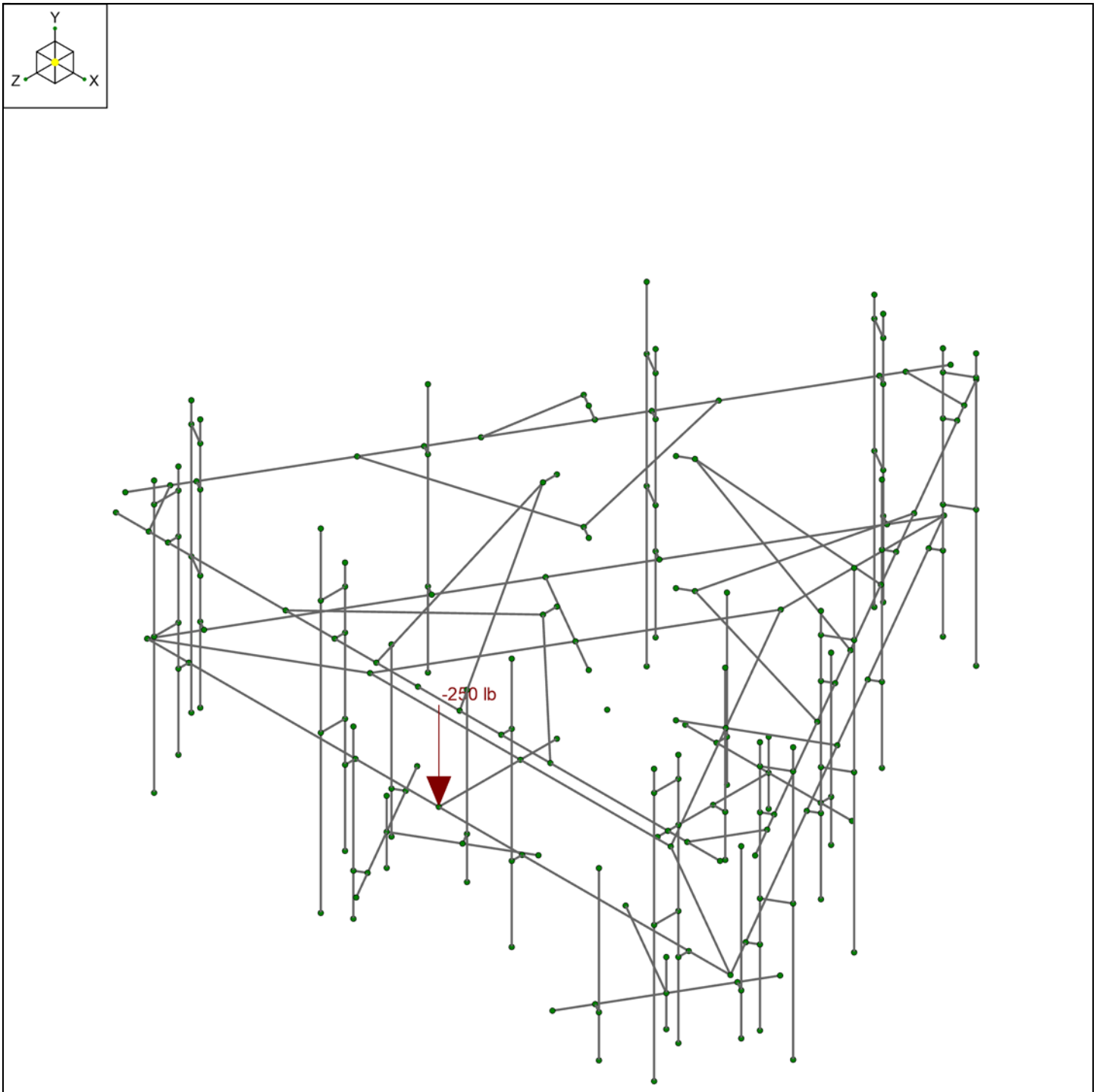

Loads: BLC 33, Service Live Loads

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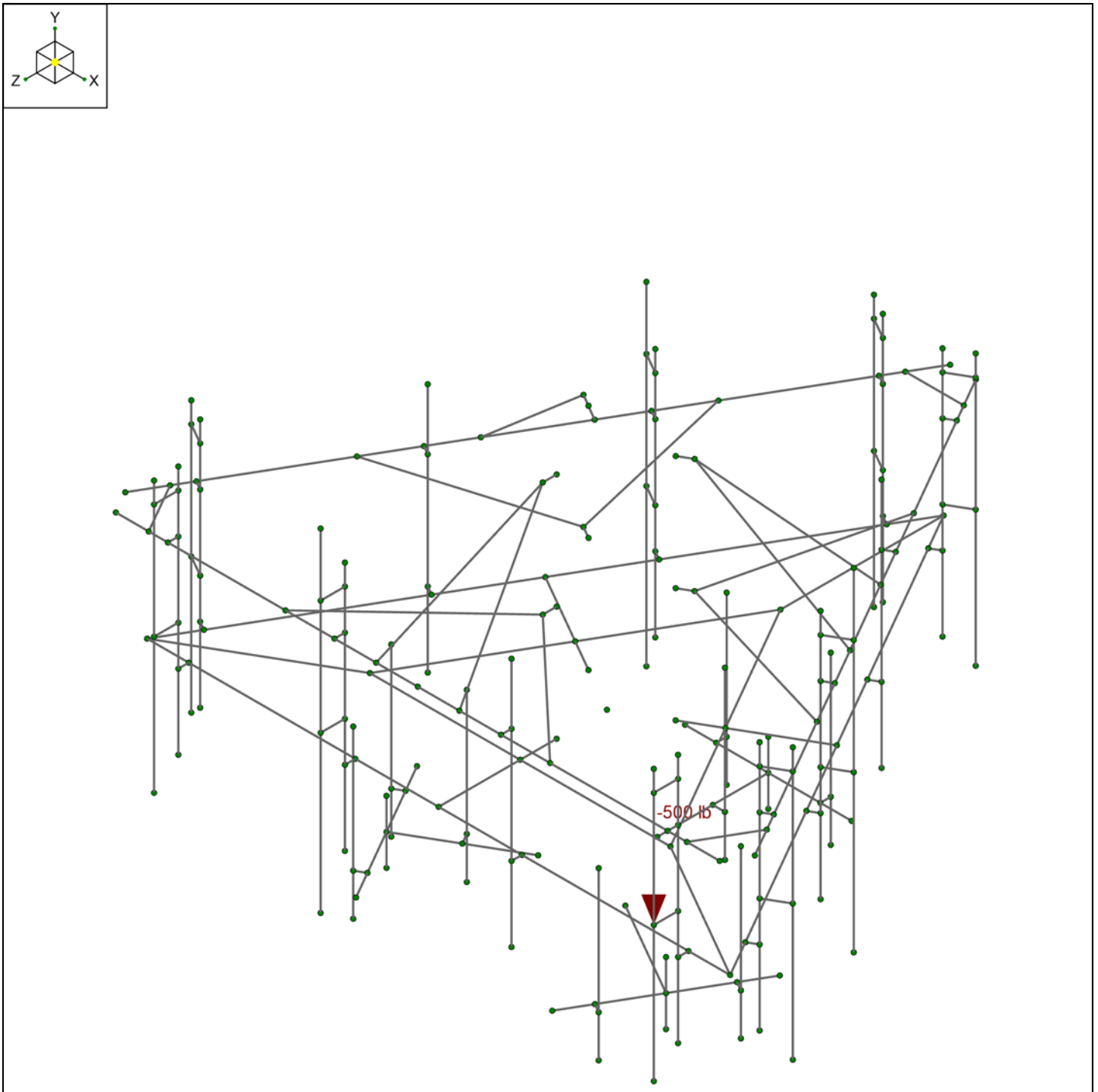

Loads: BLC 40, Maintenance Load 7

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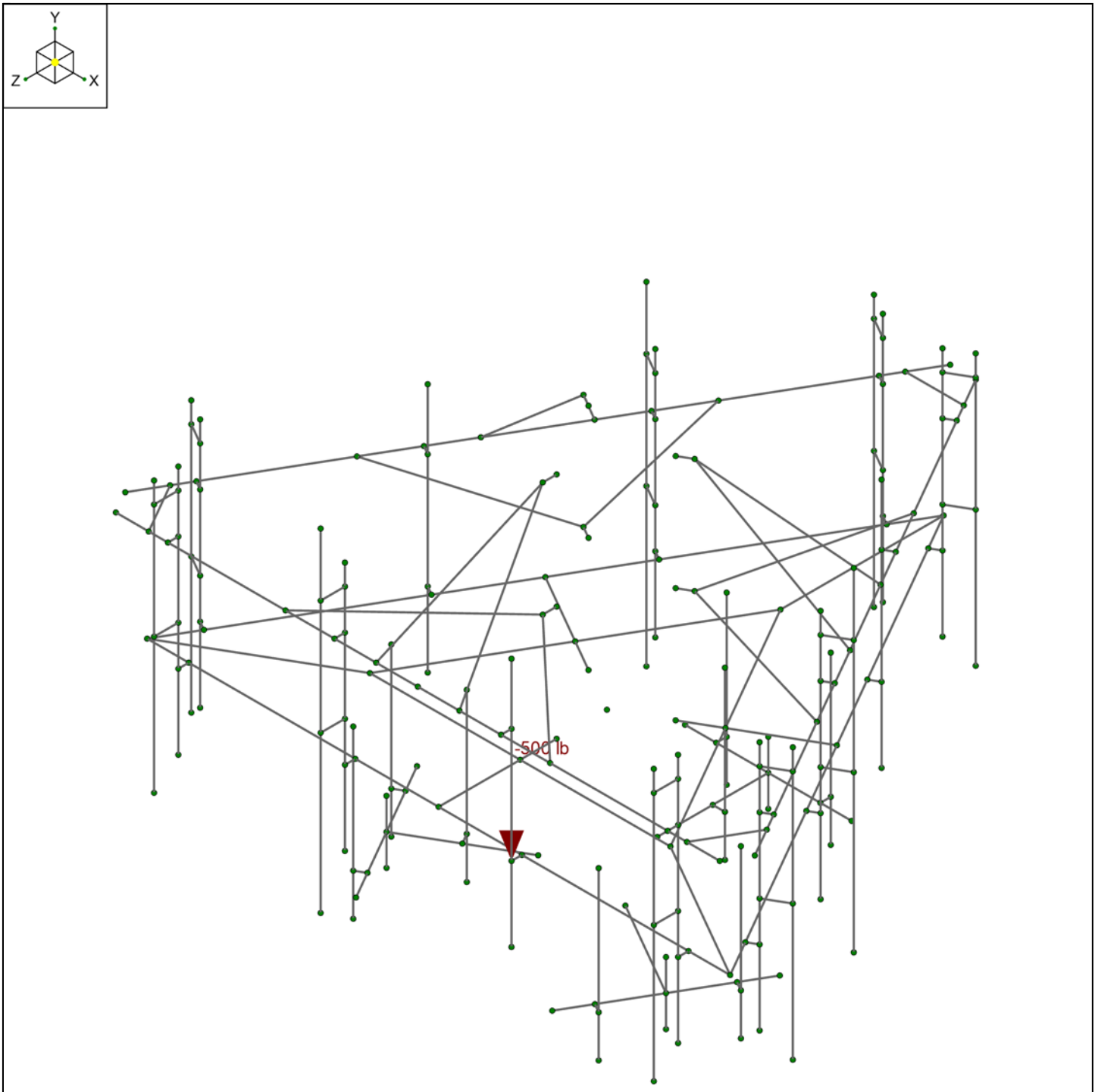

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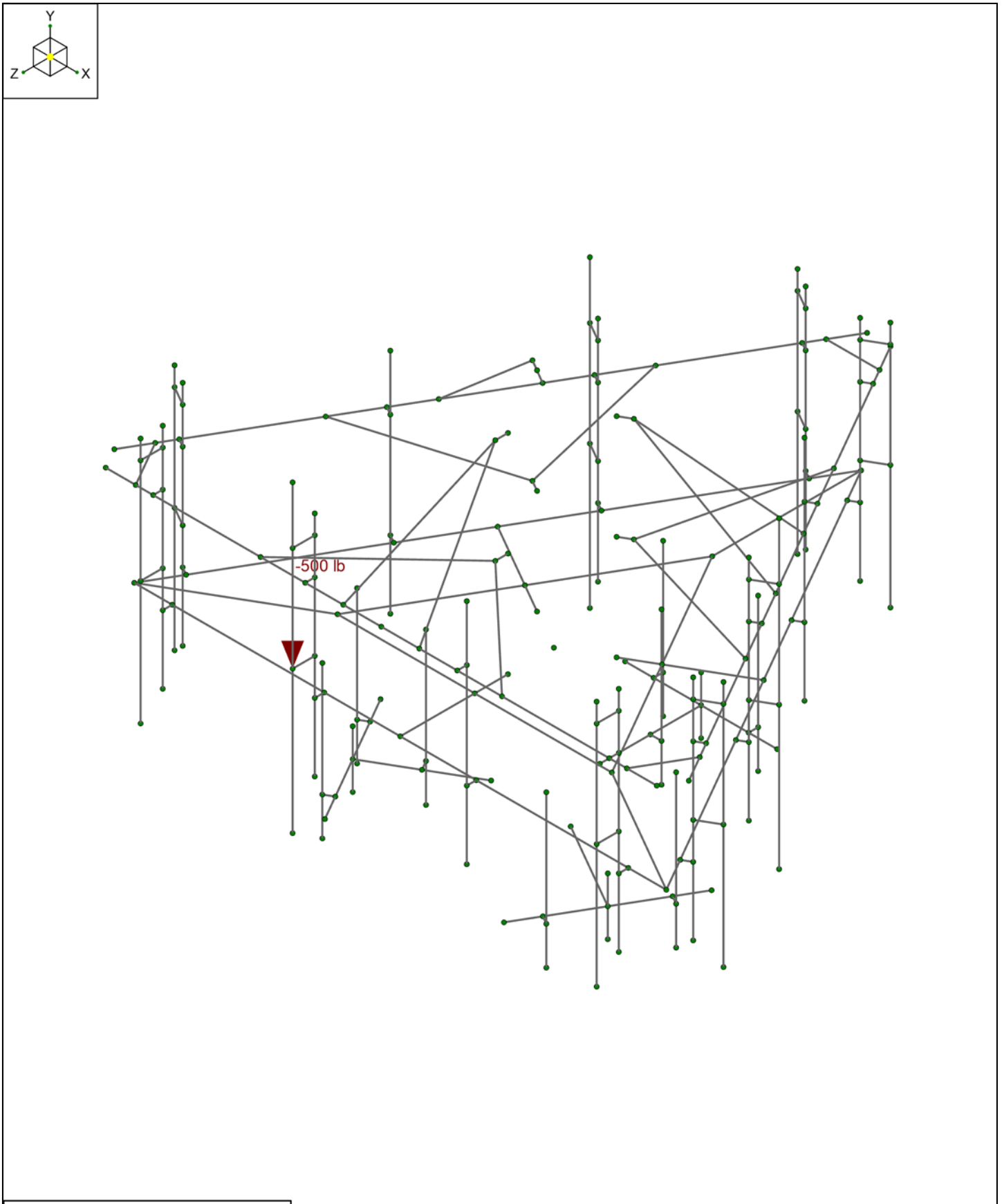

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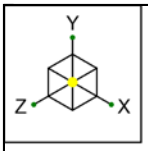

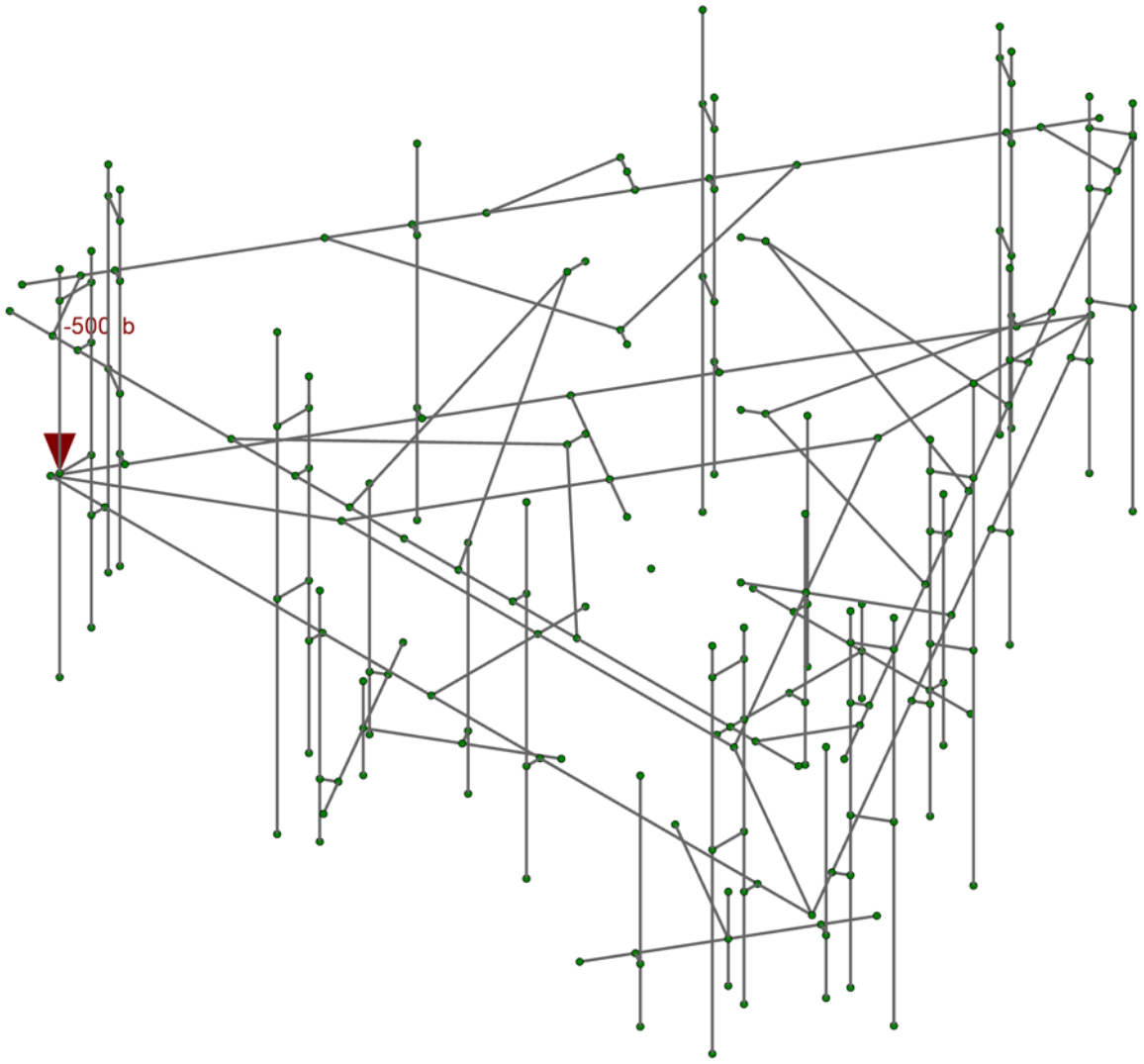

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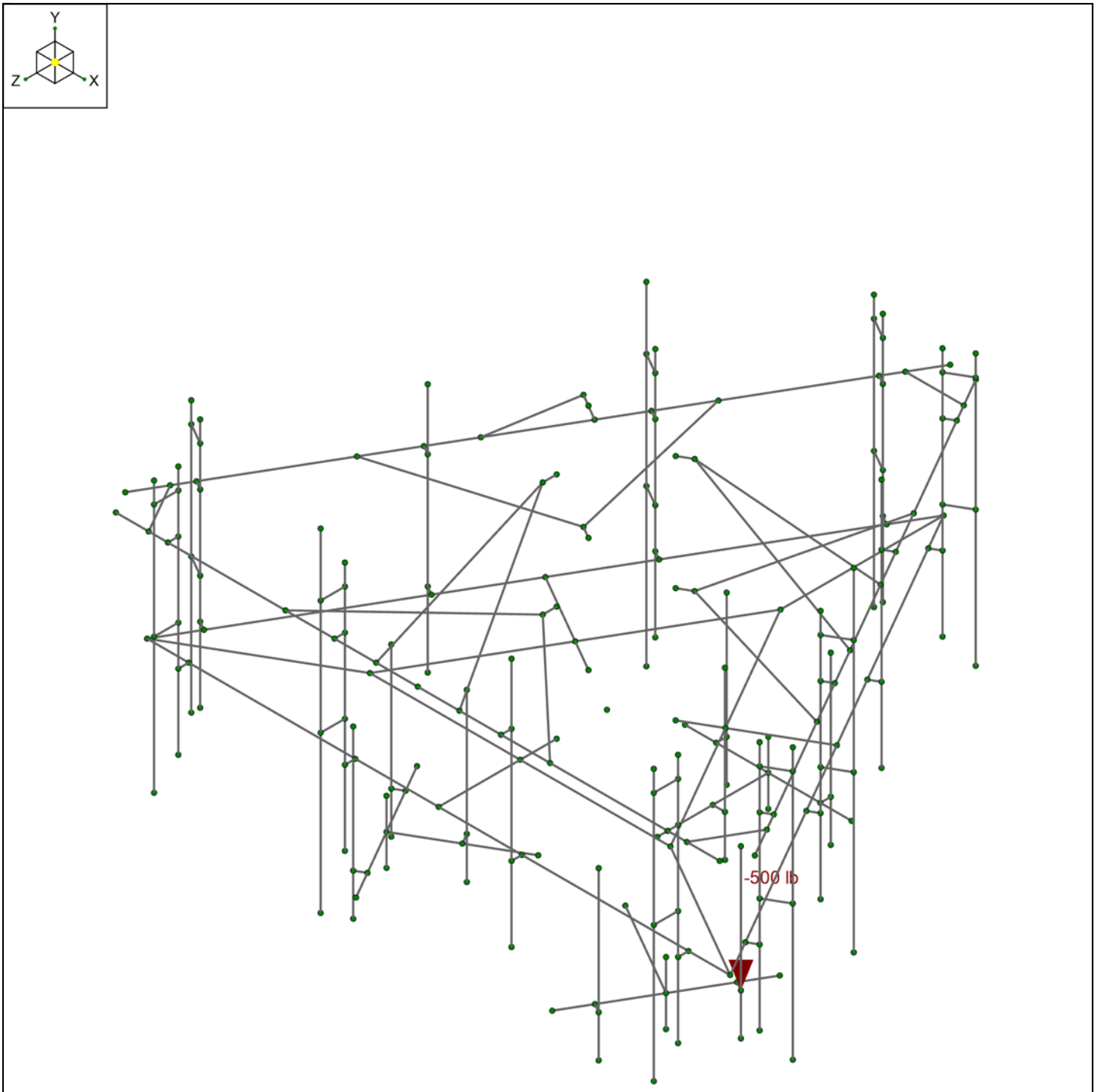
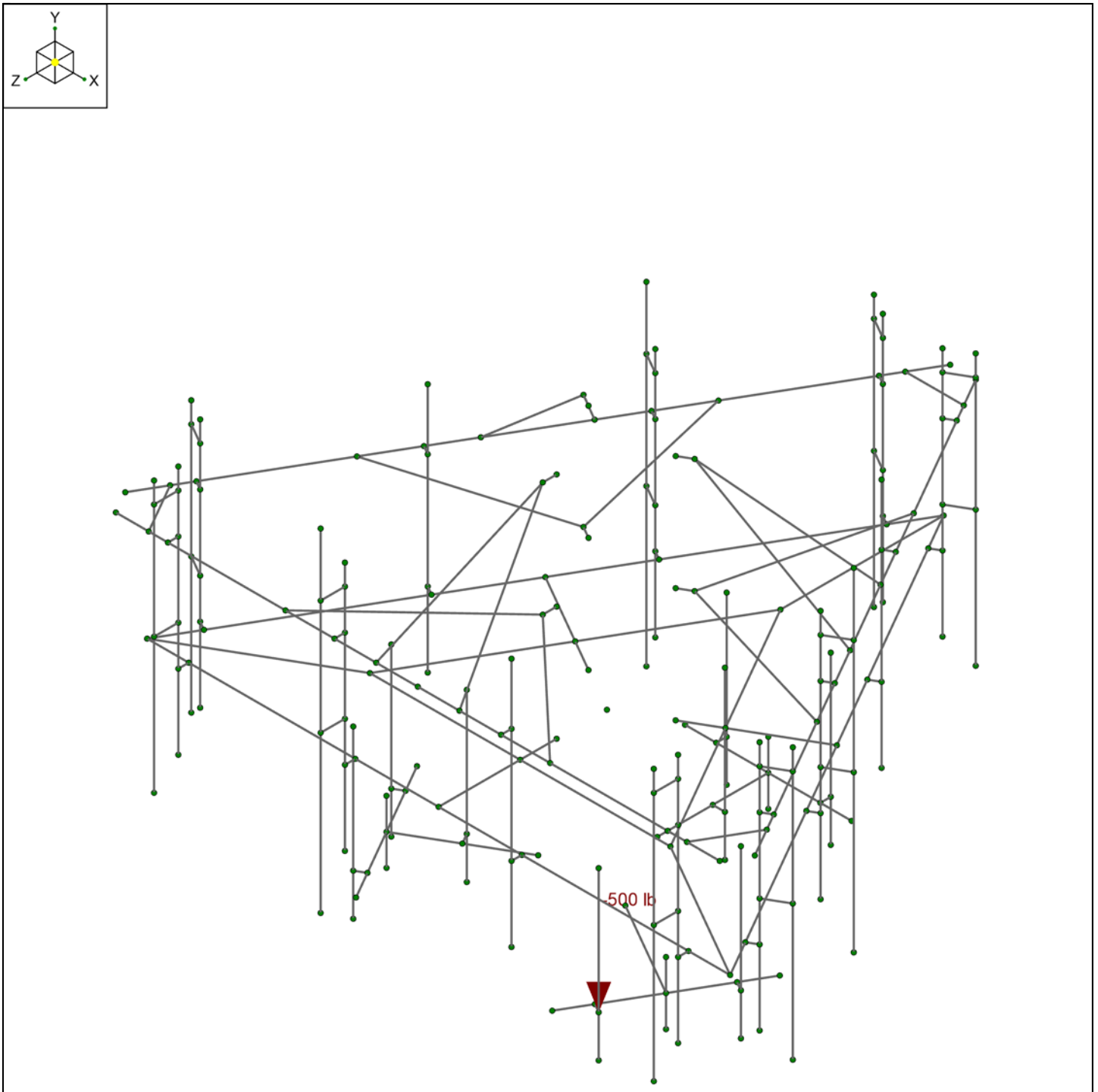
1039-Z0001-B		876342_loaded.r3d



Loads: BLC 34, Maintenance Load 1

Infinigy Engineering, PLLC	876342	Maintenance Load 5
AG		Sep 13, 2021
1039-Z0001-B		876342_loaded.r3d



Loads: BLC 35, Maintenance Load 2

Infinigy Engineering, PLLC	876342	Maintenance Load 6
AG		Sep 13, 2021
1039-Z0001-B		876342_loaded.r3d

APPENDIX B

SOFTWARE INPUT CALCULATIONS

Program Inputs

PROJECT INFORMATION	
Client:	Crown Castle
Carrier:	AT&T Mobility
Engineer:	Andrew Gloriani

SITE INFORMATION		
Risk Category:	II	
Exposure Category:	C	
Topo Factor Procedure:	Method 1, Category 1	
Site Class:	D - Stiff Soil (Assumed)	
Ground Elevation:	40.17	ft *Rev H

MOUNT INFORMATION		
Mount Type:	Platform	
Num Sectors:	3	
Centerline AGL:	122.00	ft
Tower Height AGL:	140.00	ft

TOPOGRAPHIC DATA		
Topo Feature:	N/A	
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft
Crest Height:	N/A	ft

FACTORS		
Directionality Fact. (K_d):	0.950	
Ground Ele. Factor (K_e):	0.999	*Rev H Only
Rooftop Speed-Up (K_s):	1.000	*Rev H Only
Topographic Factor (K_{zt}):	1.000	
Gust Effect Factor (G_h):	1.000	

CODE STANDARDS		
Building Code:	2018 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-16	

WIND AND ICE DATA		
Ultimate Wind (V_{ult}):	120	mph
Design Wind (V):	N/A	mph
Ice Wind (V_{ice}):	50	mph
Base Ice Thickness (t_i):	1.0	in
Flat Pressure:	92.301	psf
Round Pressure:	55.381	psf
Ice Wind Pressure:	9.615	psf

SEISMIC DATA		
Short-Period Accel. (S_s):	0.203	g
1-Second Accel. (S_1):	0.053	g
Short-Period Design (S_{DS}):	0.217	
1-Second Design (S_{D1}):	0.085	
Short-Period Coeff. (F_a):	1.600	
1-Second Coeff. (F_v):	2.400	
Amplification Factor (A_s):	3.000	
Response Mod. Coeff. (R):	2.000	

INFINIGY

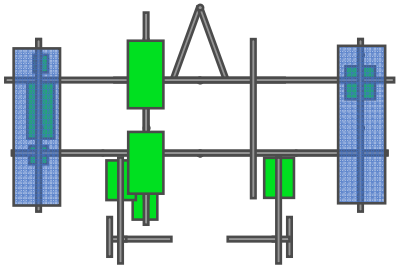
FROM ZERO TO INFINIGY

the solutions are endless

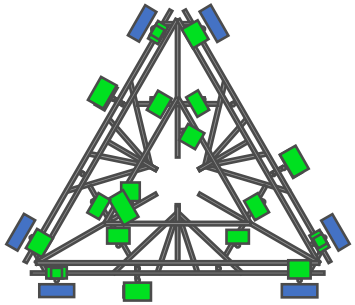
Infinigy Load Calculator V2.1.6

Program Inputs

ELEVATION VIEW



PLAN VIEW



INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless

Infinigy Load Calculator V2.1.6

APPURTENANCE INFORMATION

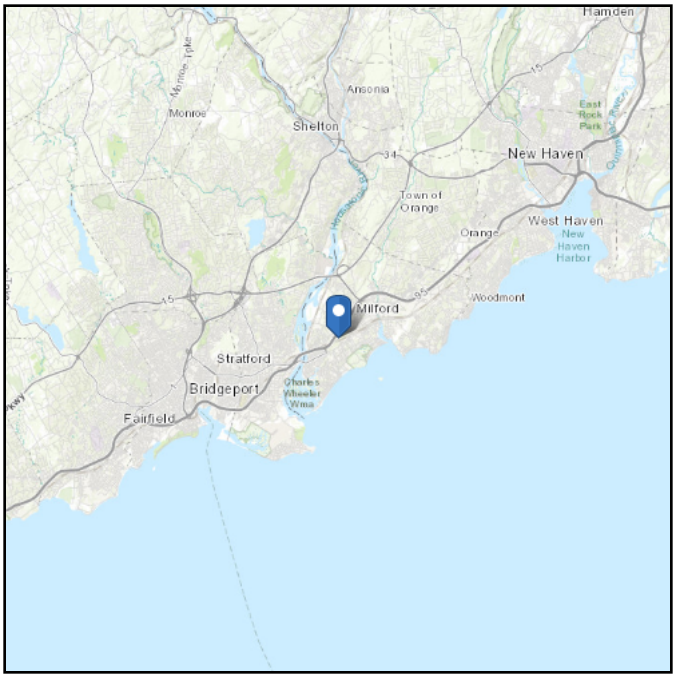
Appurtenance Name	Elevation	Qty.	K_a	q_z (psf)	EPA_N (ft^2)	EPA_T (ft^2)	Wind F_z (lbs)	Wind F_x (lbs)	Weight (lbs)	Seismic F (lbs)	Member (α sector)
CCI ANTENNAS DMP65R-BU6D	125.0	3	0.90	46.39	11.93	4.48	498.06	187.03	89.30	29.00	MP4
CCI ANTENNAS TPA65R-BU6D	125.0	3	0.90	46.39	12.22	4.54	510.17	189.54	72.50	23.55	MP1
ERICSSON AIR 6419 B77G	125.0	3	0.90	46.39	3.67	1.65	153.15	69.01	66.20	21.50	MP3
ERICSSON AIR 6449 N77	125.0	3	0.90	46.39	4.05	2.73	169.12	114.10	83.78	27.21	MP3
COMMSCOPE WCS-IMFQ-AMT-43	125.0	3	0.90	46.39	0.55	0.39	23.11	16.26	20.50	6.66	MP4
ERICSSON RADIO 4478 B14	125.0	3	0.90	46.39	2.02	1.25	84.38	52.01	59.40	19.29	MP5
ERICSSON TME-RRUS 32 B30	125.0	3	0.90	46.39	2.73	1.67	114.03	69.64	52.90	17.18	MP4
ERICSSON RRUS 4449 B5/B12	125.0	3	0.90	46.39	1.97	1.41	82.14	58.79	71.00	23.06	MP6
ERICSSON RRUS 8843 B2/B66A	125.0	3	0.90	46.39	1.64	1.35	68.43	56.50	72.00	23.39	MP1
KAELUS DBC0061F1V51-2	125.0	3	0.90	46.39	0.43	0.41	18.09	17.26	25.40	8.25	MP4
RAYCAP DC6-48-60-18-8F	125.0	2	0.90	46.39	0.92	0.92	38.27	38.27	18.90	6.14	M127
RAYCAP TME-DC9-48-60-24-8C-EV	125.0	1	0.90	46.39	4.78	2.74	199.76	114.25	26.20	8.51	Leg/Flush

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 40.17 ft (NAVD 88)
Latitude: 41.212794
Longitude: -73.085306



Wind

Results:

Wind Speed:	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	91 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:	Mon Sep 13 2021

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

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

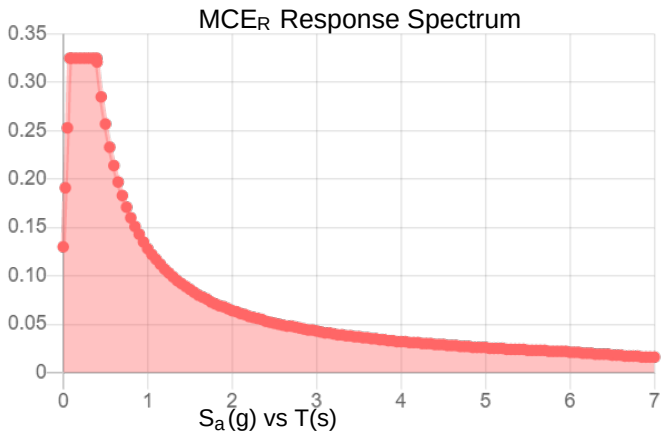
Seismic

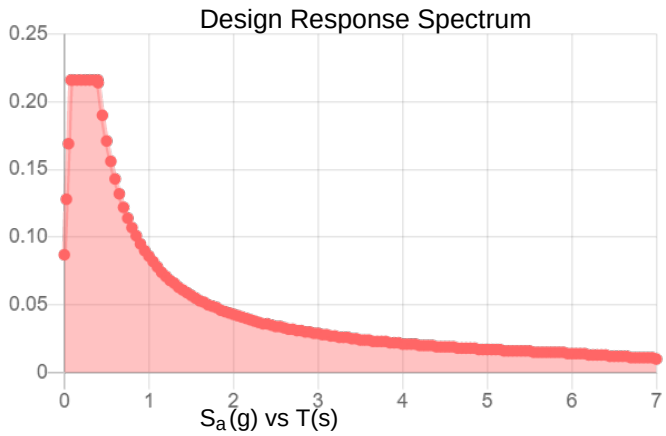
Site Soil Class: D - Stiff Soil

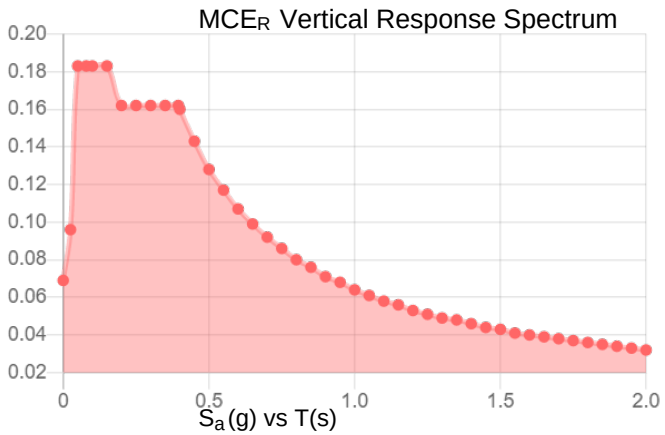
Results:

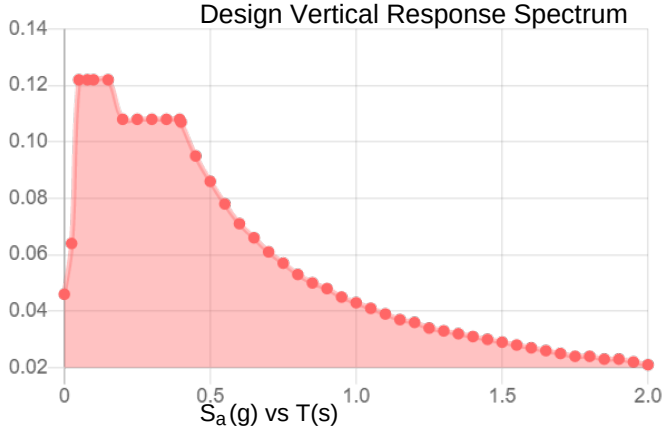
S_S :	0.203	S_{D1} :	0.086
S_1 :	0.053	T_L :	6
F_a :	1.6	PGA :	0.114
F_v :	2.4	PGA_M :	0.18
S_{MS} :	0.325	F_{PGA} :	1.571
S_{M1} :	0.128	I_e :	1
S_{DS} :	0.216	C_v :	0.706

Seismic Design Category B









Data Accessed: Mon Sep 13 2021

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:	Mon Sep 13 2021

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 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.

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N2	N3	270	Horizontals	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N4	N3	180	Corner Horizontal	Beam	Double Angle (No Gap)	A36 Gr.36	Typical
3	M3	N5	N2	180	Corner Horizontal	Beam	Double Angle (No Gap)	A36 Gr.36	Typical
4	M4	N4	N5	270	Horizontals	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N3	N7	270	Horizontals	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N7	N2	270	Horizontals	Beam	Single Angle	A36 Gr.36	Typical
7	M7	N5	N8	270	Horizontals	Beam	Single Angle	A36 Gr.36	Typical
8	M8	N8	N4	270	Horizontals	Beam	Single Angle	A36 Gr.36	Typical
9	M9	N8	N7	180	Corner Horizontal	Beam	Double Angle (No Gap)	A36 Gr.36	Typical
10	M10	N10	N9		RIGID	None	None	RIGID	Typical
11	M11	N11	N12		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
12	MS5	N15	N14		Standoff 1	Beam	Tube	A500 Gr.B Rect	Typical
13	MR1	N18	N19	270	Handrail Pipe	Beam	Pipe	A53 Gr.B	Typical
14	M14	N21	N20		RIGID	None	None	RIGID	Typical
15	MR2	N23	N22		Top Corner Pipe	VBrace	Pipe	A53 Gr.B	Typical
16	MR5	N24	N25	270	Handrail Pipe	Beam	Pipe	A53 Gr.B	Typical
17	MR3	N26	N27	270	Handrail Pipe	Beam	Pipe	A53 Gr.B	Typical
18	MR6	N28	N29		Top Corner Pipe	VBrace	Pipe	A53 Gr.B	Typical
19	MR4	N30	N31		Top Corner Pipe	VBrace	Pipe	A53 Gr.B	Typical
20	MS1	N14	N32		Standoff 2	Beam	Tube	A500 Gr.B Rect	Typical
21	MS6	N33	N16		Standoff 1	Beam	Tube	A500 Gr.B Rect	Typical
22	MS3	N16	N1		Standoff 2	Beam	Tube	A500 Gr.B Rect	Typical
23	MS2	N34	N17		Standoff 1	Beam	Tube	A500 Gr.B Rect	Typical
24	MS4	N17	N13		Standoff 2	Beam	Tube	A500 Gr.B Rect	Typical
25	M25	N35	N36		RIGID	None	None	RIGID	Typical
26	M26	N36	N38	180	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
27	M27	N36	N39	90	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
28	M28	N41	N40		RIGID	None	None	RIGID	Typical
29	M29	N40	N42	90	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
30	M30	N40	N43	180	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
31	M31	N44	N45		RRH Standoff	Beam	Tube	A500 Gr.B Rect	Typical
32	M32	N47	N46		RRH Horizontal	Beam	Pipe	A53 Gr.B	Typical
33	M33	N48	N49		RRH Vert Pipe	Column	Pipe	A53 Gr.B	Typical
34	MP18	N52	N53		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
35	M35	N50	N51		RIGID	None	None	RIGID	Typical
36	M36	N55	N54		RIGID	None	None	RIGID	Typical
37	MP5	N56	N57		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
38	M38	N64	N65		RRH Vert Pipe	Column	Pipe	A53 Gr.B	Typical
39	M39	N66	N59		RIGID	None	None	RIGID	Typical
40	M40	N60	N61		RRH Standoff	Beam	Tube	A500 Gr.B Rect	Typical
41	M41	N58	N68		RIGID	None	None	RIGID	Typical
42	MP17	N70	N69		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
43	M43	N63	N62		RRH Horizontal	Beam	Pipe	A53 Gr.B	Typical
44	MP12	N71	N67		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
45	M45	N78	N79		RRH Vert Pipe	Column	Pipe	A53 Gr.B	Typical
46	M46	N80	N73		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
47	M47	N74	N75		RRH Standoff	Beam	Tube	A500 Gr.B Rect	Typical
48	M48	N72	N82		RIGID	None	None	RIGID	Typical
49	MP11	N84	N83		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
50	M50	N77	N76		RRH Horizontal	Beam	Pipe	A53 Gr.B	Typical
51	MP6	N85	N81		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
52	M52	N87	N86		RIGID	None	None	RIGID	Typical
53	M53	N88	N90	180	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
54	M54	N86	N91	90	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
55	M55	N86	N92	180	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
56	M56	N89	N88		RIGID	None	None	RIGID	Typical
57	M57	N88	N93	90	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
58	M58	N95	N94		RIGID	None	None	RIGID	Typical
59	M59	N96	N98	180	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
60	M60	N94	N99	90	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
61	M61	N94	N100	180	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
62	M62	N97	N96		RIGID	None	None	RIGID	Typical
63	M63	N96	N101	90	V-Kit Angle	VBrace	Single Angle	A36 Gr.36	Typical
64	MP1	N102	N103		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
65	M65	N104	N105		RIGID	None	None	RIGID	Typical
66	M66	N106	N107		RIGID	None	None	RIGID	Typical
67	M67	N111	N109		RIGID	None	None	RIGID	Typical
68	M68	N108	N110		RIGID	None	None	RIGID	Typical
69	MP2	N112	N113		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
70	M70	N118	N116		RIGID	None	None	RIGID	Typical
71	M71	N115	N117		RIGID	None	None	RIGID	Typical
72	M72	N119	N120		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
73	MP3	N122	N123		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
74	M74	N114	N124		RIGID	None	None	RIGID	Typical
75	M75	N121	N125		RIGID	None	None	RIGID	Typical
76	M76	N130	N128		RIGID	None	None	RIGID	Typical
77	M77	N127	N129		RIGID	None	None	RIGID	Typical
78	M78	N131	N132		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
79	MP4	N134	N135		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
80	M80	N126	N136		RIGID	None	None	RIGID	Typical
81	M81	N133	N137		RIGID	None	None	RIGID	Typical
82	M82	N145	N144		RIGID	None	None	RIGID	Typical
83	MP16	N170	N172		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
84	M84	N148	N141		RIGID	None	None	RIGID	Typical
85	M85	N140	N147		RIGID	None	None	RIGID	Typical
86	M86	N138	N153		RIGID	None	None	RIGID	Typical
87	M87	N157	N155		RIGID	None	None	RIGID	Typical
88	M88	N154	N156		RIGID	None	None	RIGID	Typical
89	MP14	N158	N159		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
90	M90	N150	N162		RIGID	None	None	RIGID	Typical
91	M91	N161	N163		RIGID	None	None	RIGID	Typical
92	M92	N139	N164		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
93	M93	N160	N146		RIGID	None	None	RIGID	Typical
94	M94	N168	N166		RIGID	None	None	RIGID	Typical
95	M95	N165	N167		RIGID	None	None	RIGID	Typical
96	M96	N169	N143		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
97	M97	N149	N151		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
98	MP13	N152	N171		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
99	M99	N173	N174		RIGID	None	None	RIGID	Typical
100	M100	N175	N142		RIGID	None	None	RIGID	Typical
101	M101	N176	N177		RIGID	None	None	RIGID	Typical
102	MP15	N178	N179		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
103	M103	N187	N186		RIGID	None	None	RIGID	Typical
104	MP10	N212	N214		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
105	M105	N190	N183		RIGID	None	None	RIGID	Typical
106	M106	N182	N189		RIGID	None	None	RIGID	Typical
107	M107	N180	N195		RIGID	None	None	RIGID	Typical
108	M108	N199	N197		RIGID	None	None	RIGID	Typical
109	M109	N196	N198		RIGID	None	None	RIGID	Typical
110	MP8	N200	N201		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
111	M111	N192	N204		RIGID	None	None	RIGID	Typical
112	M112	N203	N205		RIGID	None	None	RIGID	Typical
113	M113	N181	N206		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
114	M114	N202	N188		RIGID	None	None	RIGID	Typical
115	M115	N210	N208		RIGID	None	None	RIGID	Typical
116	M116	N207	N209		RIGID	None	None	RIGID	Typical
117	M117	N211	N185		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
118	M118	N191	N193		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
119	MP7	N194	N213		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
120	M120	N215	N216		RIGID	None	None	RIGID	Typical
121	M121	N217	N184		RIGID	None	None	RIGID	Typical
122	M122	N218	N219		RIGID	None	None	RIGID	Typical
123	MP9	N220	N221		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
124	M124	N222	N223		RIGID	None	None	RIGID	Typical
125	M125	N224	N225		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical
126	M126	N227	N226		RIGID	None	None	RIGID	Typical
127	M127	N228	N229		Mount Pipe 2.0	Column	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	Physical	Deflection Ratio Options	Analysis Offset [in]	Seismic DR
1	M1			Yes	Default		None
2	M2			Yes	N/A		None
3	M3			Yes	N/A		None
4	M4			Yes	Default		None
5	M5			Yes	Default		None
6	M6			Yes	Default		None
7	M7			Yes	Default		None
8	M8			Yes	Default		None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Analysis Offset [in]	Seismic DR
9	M9			Yes	N/A		None
10	M10			Yes	** NA **		None
11	M11			Yes	** NA **		None
12	MS5			Yes	Default	-y	None
13	MR1			Yes	Default		None
14	M14			Yes	** NA **		None
15	MR2	BenPIN	BenPIN	Yes	** NA **	+y+1.188	None
16	MR5			Yes	Default		None
17	MR3			Yes	Default		None
18	MR6	BenPIN	BenPIN	Yes	** NA **	+y+1.188	None
19	MR4	BenPIN	BenPIN	Yes	** NA **	+y+1.188	None
20	MS1			Yes	Default	-y	None
21	MS6			Yes	Default	-y	None
22	MS3			Yes	Default	-y	None
23	MS2			Yes	Default	-y	None
24	MS4			Yes	Default	-y	None
25	M25			Yes	** NA **		None
26	M26	BenPIN	BenPIN	Yes	** NA **		None
27	M27	BenPIN	BenPIN	Yes	** NA **		None
28	M28			Yes	** NA **		None
29	M29	BenPIN	BenPIN	Yes	** NA **		None
30	M30	BenPIN	BenPIN	Yes	** NA **		None
31	M31			Yes	Default		None
32	M32			Yes	Default	+z+1.188	None
33	M33			Yes	** NA **		None
34	MP18			Yes	** NA **		None
35	M35			Yes	** NA **		None
36	M36			Yes	** NA **		None
37	MP5			Yes	** NA **		None
38	M38			Yes	** NA **		None
39	M39			Yes	** NA **		None
40	M40			Yes	Default		None
41	M41			Yes	** NA **		None
42	MP17			Yes	** NA **		None
43	M43			Yes	Default	+z+1.188	None
44	MP12			Yes	** NA **		None
45	M45			Yes	** NA **		None
46	M46			Yes	** NA **		None
47	M47			Yes	Default		None
48	M48			Yes	** NA **		None
49	MP11			Yes	** NA **		None
50	M50			Yes	Default	+z+1.188	None
51	MP6			Yes	** NA **		None
52	M52			Yes	** NA **		None
53	M53	BenPIN	BenPIN	Yes	** NA **		None
54	M54	BenPIN	BenPIN	Yes	** NA **		None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Analysis Offset [in]	Seismic DR
55	M55	BenPIN	BenPIN	Yes	** NA **		None
56	M56			Yes	** NA **		None
57	M57	BenPIN	BenPIN	Yes	** NA **		None
58	M58			Yes	** NA **		None
59	M59	BenPIN	BenPIN	Yes	** NA **		None
60	M60	BenPIN	BenPIN	Yes	** NA **		None
61	M61	BenPIN	BenPIN	Yes	** NA **		None
62	M62			Yes	** NA **		None
63	M63	BenPIN	BenPIN	Yes	** NA **		None
64	MP1			Yes	** NA **		None
65	M65			Yes	** NA **		None
66	M66			Yes	** NA **		None
67	M67			Yes	** NA **		None
68	M68			Yes	** NA **		None
69	MP2			Yes	** NA **		None
70	M70			Yes	** NA **		None
71	M71			Yes	** NA **		None
72	M72			Yes	** NA **		None
73	MP3			Yes	** NA **		None
74	M74			Yes	** NA **		None
75	M75			Yes	** NA **		None
76	M76			Yes	** NA **		None
77	M77			Yes	** NA **		None
78	M78			Yes	** NA **		None
79	MP4			Yes	** NA **		None
80	M80			Yes	** NA **		None
81	M81			Yes	** NA **		None
82	M82			Yes	** NA **		None
83	MP16			Yes	** NA **		None
84	M84			Yes	** NA **		None
85	M85			Yes	** NA **		None
86	M86			Yes	** NA **		None
87	M87			Yes	** NA **		None
88	M88			Yes	** NA **		None
89	MP14			Yes	** NA **		None
90	M90			Yes	** NA **		None
91	M91			Yes	** NA **		None
92	M92			Yes	** NA **		None
93	M93			Yes	** NA **		None
94	M94			Yes	** NA **		None
95	M95			Yes	** NA **		None
96	M96			Yes	** NA **		None
97	M97			Yes	** NA **		None
98	MP13			Yes	** NA **		None
99	M99			Yes	** NA **		None
100	M100			Yes	** NA **		None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Analysis Offset [in]	Seismic DR
101	M101			Yes	** NA **		None
102	MP15			Yes	** NA **		None
103	M103			Yes	** NA **		None
104	MP10			Yes	** NA **		None
105	M105			Yes	** NA **		None
106	M106			Yes	** NA **		None
107	M107			Yes	** NA **		None
108	M108			Yes	** NA **		None
109	M109			Yes	** NA **		None
110	MP8			Yes	** NA **		None
111	M111			Yes	** NA **		None
112	M112			Yes	** NA **		None
113	M113			Yes	** NA **		None
114	M114			Yes	** NA **		None
115	M115			Yes	** NA **		None
116	M116			Yes	** NA **		None
117	M117			Yes	** NA **		None
118	M118			Yes	** NA **		None
119	MP7			Yes	** NA **		None
120	M120			Yes	** NA **		None
121	M121			Yes	** NA **		None
122	M122			Yes	** NA **		None
123	MP9			Yes	** NA **		None
124	M124			Yes	** NA **		None
125	M125			Yes	** NA **		None
126	M126			Yes	** NA **		None
127	M127			Yes	** NA **		None

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N15	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N33	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N34	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N35	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N41	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N44	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
7	N60	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
8	N74	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
9	N87	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
10	N89	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
11	N95	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
12	N97	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Material Take-Off

	Material	Size	Pieces	Length[in]	Weight[LB]
1	General Members				
2	RIGID		56	247	0
3	Total General		56	247	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x3	12	616.3	157.47
7	A36 Gr.36	L3X3X4	6	763.8	311.877
8	A36 Gr.36	LL3x3x4x0	3	141	115.15
9	A500 Gr.B Rect	HSS4.5X4.5X3	3	70.5	62.998
10	A500 Gr.B Rect	HSS4X4X4	6	127.5	131.04
11	A53 Gr.B	PIPE_2.0	38	2720.6	786.887
12	A53 Gr.B	PIPE_4.0	3	54	45.325
13	Total HR Steel		71	4493.7	1610.748

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
1	Self Weight	DL		-1			66		3
2	Wind Load AZI 0	WLZ					132		
3	Wind Load AZI 30	None					132		
4	Wind Load AZI 60	None					132		
5	Wind Load AZI 90	WLX					132		
6	Wind Load AZI 120	None					132		
7	Wind Load AZI 150	None					132		
8	Wind Load AZI 180	None					132		
9	Wind Load AZI 210	None					132		
10	Wind Load AZI 240	None					132		
11	Wind Load AZI 270	None					132		
12	Wind Load AZI 300	None					132		
13	Wind Load AZI 330	None					132		
14	Distr. Wind Load Z	WLZ						127	
15	Distr. Wind Load X	WLX						127	
16	Ice Weight	OL1					66	127	3
17	Ice Wind Load AZI 0	OL2					132		
18	Ice Wind Load AZI 30	None					132		
19	Ice Wind Load AZI 60	None					132		
20	Ice Wind Load AZI 90	OL3					132		
21	Ice Wind Load AZI 120	None					132		
22	Ice Wind Load AZI 150	None					132		
23	Ice Wind Load AZI 180	None					132		
24	Ice Wind Load AZI 210	None					132		
25	Ice Wind Load AZI 240	None					132		
26	Ice Wind Load AZI 270	None					132		
27	Ice Wind Load AZI 300	None					132		
28	Ice Wind Load AZI 330	None					132		
29	Distr. Ice Wind Load Z	OL2						127	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Nodal	Point	Distributed	Area(Member)
30	Distr. Ice Wind Load X	OL3						127	
31	Seismic Load Z	ELZ			-0.325		66		
32	Seismic Load X	ELX	-0.325				66		
33	Service Live Loads	LL				1			
34	Maintenance Load 1	LL				1			
35	Maintenance Load 2	LL				1			
36	Maintenance Load 3	LL				1			
37	Maintenance Load 4	LL				1			
38	Maintenance Load 5	LL				1			
39	Maintenance Load 6	LL				1			
40	Maintenance Load 7	LL				1			
41	Maintenance Load 8	LL				1			
42	Maintenance Load 9	LL				1			
43	Maintenance Load 10	LL				1			
44	Maintenance Load 11	LL				1			
45	Maintenance Load 12	LL				1			
46	Maintenance Load 13	LL				1			
47	Maintenance Load 14	LL				1			
48	Maintenance Load 15	LL				1			
49	Maintenance Load 16	LL				1			
50	Maintenance Load 17	LL				1			
51	Maintenance Load 18	LL				1			
52	BLC 1 Transient Area Loads	None						30	
53	BLC 16 Transient Area Loads	None						30	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4DL	Yes	Y	1	1.4								
2	1.2DL + 1WL AZI 0	Yes	Y	1	1.2	2	1	14	1	15			
3	1.2DL + 1WL AZI 30	Yes	Y	1	1.2	3	1	14	0.866	15	0.5		
4	1.2DL + 1WL AZI 60	Yes	Y	1	1.2	4	1	14	0.5	15	0.866		
5	1.2DL + 1WL AZI 90	Yes	Y	1	1.2	5	1	14		15	1		
6	1.2DL + 1WL AZI 120	Yes	Y	1	1.2	6	1	14	-0.5	15	0.866		
7	1.2DL + 1WL AZI 150	Yes	Y	1	1.2	7	1	14	-0.866	15	0.5		
8	1.2DL + 1WL AZI 180	Yes	Y	1	1.2	8	1	14	-1	15			
9	1.2DL + 1WL AZI 210	Yes	Y	1	1.2	9	1	14	-0.866	15	-0.5		
10	1.2DL + 1WL AZI 240	Yes	Y	1	1.2	10	1	14	-0.5	15	-0.866		
11	1.2DL + 1WL AZI 270	Yes	Y	1	1.2	11	1	14		15	-1		
12	1.2DL + 1WL AZI 300	Yes	Y	1	1.2	12	1	14	0.5	15	-0.866		
13	1.2DL + 1WL AZI 330	Yes	Y	1	1.2	13	1	14	0.866	15	-0.5		
14	0.9DL + 1WL AZI 0	Yes	Y	1	0.9	2	1	14	1	15			
15	0.9DL + 1WL AZI 30	Yes	Y	1	0.9	3	1	14	0.866	15	0.5		
16	0.9DL + 1WL AZI 60	Yes	Y	1	0.9	4	1	14	0.5	15	0.866		
17	0.9DL + 1WL AZI 90	Yes	Y	1	0.9	5	1	14		15	1		
18	0.9DL + 1WL AZI 120	Yes	Y	1	0.9	6	1	14	-0.5	15	0.866		
19	0.9DL + 1WL AZI 150	Yes	Y	1	0.9	7	1	14	-0.866	15	0.5		

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
20	0.9DL + 1WL AZI 180	Yes	Y	1	0.9	8	1	14	-1	15			
21	0.9DL + 1WL AZI 210	Yes	Y	1	0.9	9	1	14	-0.866	15	-0.5		
22	0.9DL + 1WL AZI 240	Yes	Y	1	0.9	10	1	14	-0.5	15	-0.866		
23	0.9DL + 1WL AZI 270	Yes	Y	1	0.9	11	1	14		15	-1		
24	0.9DL + 1WL AZI 300	Yes	Y	1	0.9	12	1	14	0.5	15	-0.866		
25	0.9DL + 1WL AZI 330	Yes	Y	1	0.9	13	1	14	0.866	15	-0.5		
26	1.2D + 1.0Di	Yes	Y	1	1.2	16	1						
27	1.2D + 1.0Di +1.0Wi AZI 0	Yes	Y	1	1.2	16	1	17	1	29	1	30	
28	1.2D + 1.0Di +1.0Wi AZI 30	Yes	Y	1	1.2	16	1	18	1	29	0.866	30	0.5
29	1.2D + 1.0Di +1.0Wi AZI 60	Yes	Y	1	1.2	16	1	19	1	29	0.5	30	0.866
30	1.2D + 1.0Di +1.0Wi AZI 90	Yes	Y	1	1.2	16	1	20	1	29		30	1
31	1.2D + 1.0Di +1.0Wi AZI 120	Yes	Y	1	1.2	16	1	21	1	29	-0.5	30	0.866
32	1.2D + 1.0Di +1.0Wi AZI 150	Yes	Y	1	1.2	16	1	22	1	29	-0.866	30	0.5
33	1.2D + 1.0Di +1.0Wi AZI 180	Yes	Y	1	1.2	16	1	23	1	29	-1	30	
34	1.2D + 1.0Di +1.0Wi AZI 210	Yes	Y	1	1.2	16	1	24	1	29	-0.866	30	-0.5
35	1.2D + 1.0Di +1.0Wi AZI 240	Yes	Y	1	1.2	16	1	25	1	29	-0.5	30	-0.866
36	1.2D + 1.0Di +1.0Wi AZI 270	Yes	Y	1	1.2	16	1	26	1	29		30	-1
37	1.2D + 1.0Di +1.0Wi AZI 300	Yes	Y	1	1.2	16	1	27	1	29	0.5	30	-0.866
38	1.2D + 1.0Di +1.0Wi AZI 330	Yes	Y	1	1.2	16	1	28	1	29	0.866	30	-0.5
39	(1.2 + 0.2Sds)DL + 1.0E AZI 0	Yes	Y	1	1.243	31	1	32					
40	(1.2 + 0.2Sds)DL + 1.0E AZI 30	Yes	Y	1	1.243	31	0.866	32	0.5				
41	(1.2 + 0.2Sds)DL + 1.0E AZI 60	Yes	Y	1	1.243	31	0.5	32	0.866				
42	(1.2 + 0.2Sds)DL + 1.0E AZI 90	Yes	Y	1	1.243	31		32	1				
43	(1.2 + 0.2Sds)DL + 1.0E AZI 120	Yes	Y	1	1.243	31	-0.5	32	0.866				
44	(1.2 + 0.2Sds)DL + 1.0E AZI 150	Yes	Y	1	1.243	31	-0.866	32	0.5				
45	(1.2 + 0.2Sds)DL + 1.0E AZI 180	Yes	Y	1	1.243	31	-1	32					
46	(1.2 + 0.2Sds)DL + 1.0E AZI 210	Yes	Y	1	1.243	31	-0.866	32	-0.5				
47	(1.2 + 0.2Sds)DL + 1.0E AZI 240	Yes	Y	1	1.243	31	-0.5	32	-0.866				
48	(1.2 + 0.2Sds)DL + 1.0E AZI 270	Yes	Y	1	1.243	31		32	-1				
49	(1.2 + 0.2Sds)DL + 1.0E AZI 300	Yes	Y	1	1.243	31	0.5	32	-0.866				
50	(1.2 + 0.2Sds)DL + 1.0E AZI 330	Yes	Y	1	1.243	31	0.866	32	-0.5				
51	(0.9 - 0.2Sds)DL + 1.0E AZI 0	Yes	Y	1	0.857	31	1	32					
52	(0.9 - 0.2Sds)DL + 1.0E AZI 30	Yes	Y	1	0.857	31	0.866	32	0.5				
53	(0.9 - 0.2Sds)DL + 1.0E AZI 60	Yes	Y	1	0.857	31	0.5	32	0.866				
54	(0.9 - 0.2Sds)DL + 1.0E AZI 90	Yes	Y	1	0.857	31		32	1				
55	(0.9 - 0.2Sds)DL + 1.0E AZI 120	Yes	Y	1	0.857	31	-0.5	32	0.866				
56	(0.9 - 0.2Sds)DL + 1.0E AZI 150	Yes	Y	1	0.857	31	-0.866	32	0.5				
57	(0.9 - 0.2Sds)DL + 1.0E AZI 180	Yes	Y	1	0.857	31	-1	32					
58	(0.9 - 0.2Sds)DL + 1.0E AZI 210	Yes	Y	1	0.857	31	-0.866	32	-0.5				
59	(0.9 - 0.2Sds)DL + 1.0E AZI 240	Yes	Y	1	0.857	31	-0.5	32	-0.866				
60	(0.9 - 0.2Sds)DL + 1.0E AZI 270	Yes	Y	1	0.857	31		32	-1				
61	(0.9 - 0.2Sds)DL + 1.0E AZI 300	Yes	Y	1	0.857	31	0.5	32	-0.866				
62	(0.9 - 0.2Sds)DL + 1.0E AZI 330	Yes	Y	1	0.857	31	0.866	32	-0.5				
63	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 0	Yes	Y	1	1	2	0.25	14	0.25	15		33	1.5
64	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 30	Yes	Y	1	1	3	0.25	14	0.217	15	0.125	33	1.5
65	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 60	Yes	Y	1	1	4	0.25	14	0.125	15	0.217	33	1.5

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
66	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 90	Yes	Y	1	1	5	0.25	14		15	0.25	33	1.5
67	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 120	Yes	Y	1	1	6	0.25	14	-0.125	15	0.217	33	1.5
68	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 150	Yes	Y	1	1	7	0.25	14	-0.217	15	0.125	33	1.5
69	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 180	Yes	Y	1	1	8	0.25	14	-0.25	15		33	1.5
70	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 210	Yes	Y	1	1	9	0.25	14	-0.217	15	-0.125	33	1.5
71	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 240	Yes	Y	1	1	10	0.25	14	-0.125	15	-0.217	33	1.5
72	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 270	Yes	Y	1	1	11	0.25	14		15	-0.25	33	1.5
73	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 300	Yes	Y	1	1	12	0.25	14	0.125	15	-0.217	33	1.5
74	1.0DL + 1.5LL + 1.0SWL (60 mph) AZI 330	Yes	Y	1	1	13	0.25	14	0.217	15	-0.125	33	1.5
75	1.2DL + 1.5LL	Yes	Y	1	1.2	33	1.5						
76	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	34	1.5	2	0.063	14	0.063	15	
77	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	34	1.5	3	0.063	14	0.054	15	0.031
78	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	34	1.5	4	0.063	14	0.031	15	0.054
79	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	34	1.5	5	0.063	14		15	0.063
80	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	34	1.5	6	0.063	14	-0.031	15	0.054
81	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	34	1.5	7	0.063	14	-0.054	15	0.031
82	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	34	1.5	8	0.063	14	-0.063	15	
83	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	34	1.5	9	0.063	14	-0.054	15	-0.031
84	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	34	1.5	10	0.063	14	-0.031	15	-0.054
85	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	34	1.5	11	0.063	14		15	-0.063
86	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	34	1.5	12	0.063	14	0.031	15	-0.054
87	1.2DL + 1.5LM-MP1 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	34	1.5	13	0.063	14	0.054	15	-0.031
88	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	35	1.5	2	0.063	14	0.063	15	
89	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	35	1.5	3	0.063	14	0.054	15	0.031
90	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	35	1.5	4	0.063	14	0.031	15	0.054
91	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	35	1.5	5	0.063	14		15	0.063
92	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	35	1.5	6	0.063	14	-0.031	15	0.054
93	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	35	1.5	7	0.063	14	-0.054	15	0.031
94	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	35	1.5	8	0.063	14	-0.063	15	
95	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	35	1.5	9	0.063	14	-0.054	15	-0.031
96	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	35	1.5	10	0.063	14	-0.031	15	-0.054
97	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	35	1.5	11	0.063	14		15	-0.063
98	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	35	1.5	12	0.063	14	0.031	15	-0.054
99	1.2DL + 1.5LM-MP2 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	35	1.5	13	0.063	14	0.054	15	-0.031
100	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	36	1.5	2	0.063	14	0.063	15	
101	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	36	1.5	3	0.063	14	0.054	15	0.031
102	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	36	1.5	4	0.063	14	0.031	15	0.054
103	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	36	1.5	5	0.063	14		15	0.063
104	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	36	1.5	6	0.063	14	-0.031	15	0.054
105	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	36	1.5	7	0.063	14	-0.054	15	0.031
106	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	36	1.5	8	0.063	14	-0.063	15	
107	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	36	1.5	9	0.063	14	-0.054	15	-0.031
108	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	36	1.5	10	0.063	14	-0.031	15	-0.054
109	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	36	1.5	11	0.063	14		15	-0.063
110	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	36	1.5	12	0.063	14	0.031	15	-0.054
111	1.2DL + 1.5LM-MP3 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	36	1.5	13	0.063	14	0.054	15	-0.031

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
112	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	37	1.5	2	0.063	14	0.063	15	
113	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	37	1.5	3	0.063	14	0.054	15	0.031
114	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	37	1.5	4	0.063	14	0.031	15	0.054
115	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	37	1.5	5	0.063	14		15	0.063
116	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	37	1.5	6	0.063	14	-0.031	15	0.054
117	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	37	1.5	7	0.063	14	-0.054	15	0.031
118	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	37	1.5	8	0.063	14	-0.063	15	
119	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	37	1.5	9	0.063	14	-0.054	15	-0.031
120	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	37	1.5	10	0.063	14	-0.031	15	-0.054
121	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	37	1.5	11	0.063	14		15	-0.063
122	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	37	1.5	12	0.063	14	0.031	15	-0.054
123	1.2DL + 1.5LM-MP4 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	37	1.5	13	0.063	14	0.054	15	-0.031
124	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	38	1.5	2	0.063	14	0.063	15	
125	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	38	1.5	3	0.063	14	0.054	15	0.031
126	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	38	1.5	4	0.063	14	0.031	15	0.054
127	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	38	1.5	5	0.063	14		15	0.063
128	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	38	1.5	6	0.063	14	-0.031	15	0.054
129	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	38	1.5	7	0.063	14	-0.054	15	0.031
130	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	38	1.5	8	0.063	14	-0.063	15	
131	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	38	1.5	9	0.063	14	-0.054	15	-0.031
132	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	38	1.5	10	0.063	14	-0.031	15	-0.054
133	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	38	1.5	11	0.063	14		15	-0.063
134	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	38	1.5	12	0.063	14	0.031	15	-0.054
135	1.2DL + 1.5LM-MP5 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	38	1.5	13	0.063	14	0.054	15	-0.031
136	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	39	1.5	2	0.063	14	0.063	15	
137	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	39	1.5	3	0.063	14	0.054	15	0.031
138	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	39	1.5	4	0.063	14	0.031	15	0.054
139	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	39	1.5	5	0.063	14		15	0.063
140	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	39	1.5	6	0.063	14	-0.031	15	0.054
141	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	39	1.5	7	0.063	14	-0.054	15	0.031
142	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	39	1.5	8	0.063	14	-0.063	15	
143	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	39	1.5	9	0.063	14	-0.054	15	-0.031
144	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	39	1.5	10	0.063	14	-0.031	15	-0.054
145	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	39	1.5	11	0.063	14		15	-0.063
146	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	39	1.5	12	0.063	14	0.031	15	-0.054
147	1.2DL + 1.5LM-MP6 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	39	1.5	13	0.063	14	0.054	15	-0.031
148	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	40	1.5	2	0.063	14	0.063	15	
149	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	40	1.5	3	0.063	14	0.054	15	0.031
150	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	40	1.5	4	0.063	14	0.031	15	0.054
151	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	40	1.5	5	0.063	14		15	0.063
152	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	40	1.5	6	0.063	14	-0.031	15	0.054
153	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	40	1.5	7	0.063	14	-0.054	15	0.031
154	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	40	1.5	8	0.063	14	-0.063	15	
155	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	40	1.5	9	0.063	14	-0.054	15	-0.031
156	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	40	1.5	10	0.063	14	-0.031	15	-0.054
157	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	40	1.5	11	0.063	14		15	-0.063

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
158	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	40	1.5	12	0.063	14	0.031	15	-0.054
159	1.2DL + 1.5LM-MP7 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	40	1.5	13	0.063	14	0.054	15	-0.031
160	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	41	1.5	2	0.063	14	0.063	15	
161	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	41	1.5	3	0.063	14	0.054	15	0.031
162	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	41	1.5	4	0.063	14	0.031	15	0.054
163	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	41	1.5	5	0.063	14		15	0.063
164	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	41	1.5	6	0.063	14	-0.031	15	0.054
165	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	41	1.5	7	0.063	14	-0.054	15	0.031
166	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	41	1.5	8	0.063	14	-0.063	15	
167	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	41	1.5	9	0.063	14	-0.054	15	-0.031
168	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	41	1.5	10	0.063	14	-0.031	15	-0.054
169	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	41	1.5	11	0.063	14		15	-0.063
170	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	41	1.5	12	0.063	14	0.031	15	-0.054
171	1.2DL + 1.5LM-MP8 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	41	1.5	13	0.063	14	0.054	15	-0.031
172	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	42	1.5	2	0.063	14	0.063	15	
173	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	42	1.5	3	0.063	14	0.054	15	0.031
174	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	42	1.5	4	0.063	14	0.031	15	0.054
175	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	42	1.5	5	0.063	14		15	0.063
176	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	42	1.5	6	0.063	14	-0.031	15	0.054
177	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	42	1.5	7	0.063	14	-0.054	15	0.031
178	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	42	1.5	8	0.063	14	-0.063	15	
179	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	42	1.5	9	0.063	14	-0.054	15	-0.031
180	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	42	1.5	10	0.063	14	-0.031	15	-0.054
181	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	42	1.5	11	0.063	14		15	-0.063
182	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	42	1.5	12	0.063	14	0.031	15	-0.054
183	1.2DL + 1.5LM-MP9 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	42	1.5	13	0.063	14	0.054	15	-0.031
184	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	43	1.5	2	0.063	14	0.063	15	
185	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	43	1.5	3	0.063	14	0.054	15	0.031
186	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	43	1.5	4	0.063	14	0.031	15	0.054
187	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	43	1.5	5	0.063	14		15	0.063
188	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	43	1.5	6	0.063	14	-0.031	15	0.054
189	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	43	1.5	7	0.063	14	-0.054	15	0.031
190	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	43	1.5	8	0.063	14	-0.063	15	
191	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	43	1.5	9	0.063	14	-0.054	15	-0.031
192	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	43	1.5	10	0.063	14	-0.031	15	-0.054
193	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	43	1.5	11	0.063	14		15	-0.063
194	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	43	1.5	12	0.063	14	0.031	15	-0.054
195	1.2DL + 1.5LM-MP10 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	43	1.5	13	0.063	14	0.054	15	-0.031
196	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	44	1.5	2	0.063	14	0.063	15	
197	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	44	1.5	3	0.063	14	0.054	15	0.031
198	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	44	1.5	4	0.063	14	0.031	15	0.054
199	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	44	1.5	5	0.063	14		15	0.063
200	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	44	1.5	6	0.063	14	-0.031	15	0.054
201	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	44	1.5	7	0.063	14	-0.054	15	0.031
202	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	44	1.5	8	0.063	14	-0.063	15	
203	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	44	1.5	9	0.063	14	-0.054	15	-0.031

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
204	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	44	1.5	10	0.063	14	-0.031	15	-0.054
205	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	44	1.5	11	0.063	14		15	-0.063
206	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	44	1.5	12	0.063	14	0.031	15	-0.054
207	1.2DL + 1.5LM-MP11 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	44	1.5	13	0.063	14	0.054	15	-0.031
208	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	45	1.5	2	0.063	14	0.063	15	
209	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	45	1.5	3	0.063	14	0.054	15	0.031
210	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	45	1.5	4	0.063	14	0.031	15	0.054
211	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	45	1.5	5	0.063	14		15	0.063
212	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	45	1.5	6	0.063	14	-0.031	15	0.054
213	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	45	1.5	7	0.063	14	-0.054	15	0.031
214	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	45	1.5	8	0.063	14	-0.063	15	
215	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	45	1.5	9	0.063	14	-0.054	15	-0.031
216	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	45	1.5	10	0.063	14	-0.031	15	-0.054
217	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	45	1.5	11	0.063	14		15	-0.063
218	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	45	1.5	12	0.063	14	0.031	15	-0.054
219	1.2DL + 1.5LM-MP12 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	45	1.5	13	0.063	14	0.054	15	-0.031
220	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	46	1.5	2	0.063	14	0.063	15	
221	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	46	1.5	3	0.063	14	0.054	15	0.031
222	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	46	1.5	4	0.063	14	0.031	15	0.054
223	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	46	1.5	5	0.063	14		15	0.063
224	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	46	1.5	6	0.063	14	-0.031	15	0.054
225	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	46	1.5	7	0.063	14	-0.054	15	0.031
226	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	46	1.5	8	0.063	14	-0.063	15	
227	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	46	1.5	9	0.063	14	-0.054	15	-0.031
228	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	46	1.5	10	0.063	14	-0.031	15	-0.054
229	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	46	1.5	11	0.063	14		15	-0.063
230	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	46	1.5	12	0.063	14	0.031	15	-0.054
231	1.2DL + 1.5LM-MP13 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	46	1.5	13	0.063	14	0.054	15	-0.031
232	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	47	1.5	2	0.063	14	0.063	15	
233	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	47	1.5	3	0.063	14	0.054	15	0.031
234	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	47	1.5	4	0.063	14	0.031	15	0.054
235	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	47	1.5	5	0.063	14		15	0.063
236	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	47	1.5	6	0.063	14	-0.031	15	0.054
237	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	47	1.5	7	0.063	14	-0.054	15	0.031
238	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	47	1.5	8	0.063	14	-0.063	15	
239	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	47	1.5	9	0.063	14	-0.054	15	-0.031
240	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	47	1.5	10	0.063	14	-0.031	15	-0.054
241	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	47	1.5	11	0.063	14		15	-0.063
242	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	47	1.5	12	0.063	14	0.031	15	-0.054
243	1.2DL + 1.5LM-MP14 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	47	1.5	13	0.063	14	0.054	15	-0.031
244	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	48	1.5	2	0.063	14	0.063	15	
245	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	48	1.5	3	0.063	14	0.054	15	0.031
246	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	48	1.5	4	0.063	14	0.031	15	0.054
247	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	48	1.5	5	0.063	14		15	0.063
248	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	48	1.5	6	0.063	14	-0.031	15	0.054
249	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	48	1.5	7	0.063	14	-0.054	15	0.031

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
250	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	48	1.5	8	0.063	14	-0.063	15	
251	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	48	1.5	9	0.063	14	-0.054	15	-0.031
252	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	48	1.5	10	0.063	14	-0.031	15	-0.054
253	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	48	1.5	11	0.063	14		15	-0.063
254	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	48	1.5	12	0.063	14	0.031	15	-0.054
255	1.2DL + 1.5LM-MP15 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	48	1.5	13	0.063	14	0.054	15	-0.031
256	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	49	1.5	2	0.063	14	0.063	15	
257	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	49	1.5	3	0.063	14	0.054	15	0.031
258	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	49	1.5	4	0.063	14	0.031	15	0.054
259	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	49	1.5	5	0.063	14		15	0.063
260	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	49	1.5	6	0.063	14	-0.031	15	0.054
261	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	49	1.5	7	0.063	14	-0.054	15	0.031
262	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	49	1.5	8	0.063	14	-0.063	15	
263	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	49	1.5	9	0.063	14	-0.054	15	-0.031
264	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	49	1.5	10	0.063	14	-0.031	15	-0.054
265	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	49	1.5	11	0.063	14		15	-0.063
266	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	49	1.5	12	0.063	14	0.031	15	-0.054
267	1.2DL + 1.5LM-MP16 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	49	1.5	13	0.063	14	0.054	15	-0.031
268	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	50	1.5	2	0.063	14	0.063	15	
269	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	50	1.5	3	0.063	14	0.054	15	0.031
270	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	50	1.5	4	0.063	14	0.031	15	0.054
271	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	50	1.5	5	0.063	14		15	0.063
272	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	50	1.5	6	0.063	14	-0.031	15	0.054
273	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	50	1.5	7	0.063	14	-0.054	15	0.031
274	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	50	1.5	8	0.063	14	-0.063	15	
275	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	50	1.5	9	0.063	14	-0.054	15	-0.031
276	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	50	1.5	10	0.063	14	-0.031	15	-0.054
277	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	50	1.5	11	0.063	14		15	-0.063
278	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	50	1.5	12	0.063	14	0.031	15	-0.054
279	1.2DL + 1.5LM-MP17 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	50	1.5	13	0.063	14	0.054	15	-0.031
280	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 0	Yes	Y	1	1.2	51	1.5	2	0.063	14	0.063	15	
281	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	51	1.5	3	0.063	14	0.054	15	0.031
282	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	51	1.5	4	0.063	14	0.031	15	0.054
283	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	51	1.5	5	0.063	14		15	0.063
284	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	51	1.5	6	0.063	14	-0.031	15	0.054
285	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	51	1.5	7	0.063	14	-0.054	15	0.031
286	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	51	1.5	8	0.063	14	-0.063	15	
287	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	51	1.5	9	0.063	14	-0.054	15	-0.031
288	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	51	1.5	10	0.063	14	-0.031	15	-0.054
289	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	51	1.5	11	0.063	14		15	-0.063
290	1.2DL + 1.5LM-MP18 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	51	1.5	12	0.063	14	0.031	15	-0.054

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	Y	-44.65	6
2	MP4	Y	-44.65	66

Member Point Loads (BLC 1 : Self Weight) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
3	MP1	Y	-36.25	6
4	MP1	Y	-36.25	66
5	MP3	Y	-33.1	6
6	MP3	Y	-33.1	34
7	MP3	Y	-41.89	46
8	MP3	Y	-41.89	87
9	MP4	Y	-10.25	9
10	MP4	Y	-10.25	9
11	MP5	Y	-29.7	6
12	MP5	Y	-29.7	24
13	MP4	Y	-26.45	18
14	MP4	Y	-26.45	36
15	MP6	Y	-35.5	6
16	MP6	Y	-35.5	24
17	MP1	Y	-36	18
18	MP1	Y	-36	33
19	MP4	Y	-12.7	48
20	MP4	Y	-12.7	48
21	M127	Y	-9.45	18
22	M127	Y	-9.45	18
23	MP10	Y	-44.65	6
24	MP10	Y	-44.65	66
25	MP7	Y	-36.25	6
26	MP7	Y	-36.25	66
27	MP9	Y	-33.1	6
28	MP9	Y	-33.1	34
29	MP9	Y	-41.89	46
30	MP9	Y	-41.89	87
31	MP10	Y	-10.25	9
32	MP10	Y	-10.25	9
33	MP11	Y	-29.7	6
34	MP11	Y	-29.7	24
35	MP10	Y	-26.45	18
36	MP10	Y	-26.45	36
37	MP12	Y	-35.5	6
38	MP12	Y	-35.5	24
39	MP7	Y	-36	18
40	MP7	Y	-36	33
41	MP10	Y	-12.7	48
42	MP10	Y	-12.7	48
43	M125	Y	-9.45	18
44	M125	Y	-9.45	18
45	MP16	Y	-44.65	6
46	MP16	Y	-44.65	66
47	MP13	Y	-36.25	6
48	MP13	Y	-36.25	66

Member Point Loads (BLC 1 : Self Weight) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
49	MP15	Y	-33.1	6
50	MP15	Y	-33.1	34
51	MP15	Y	-41.89	46
52	MP15	Y	-41.89	87
53	MP16	Y	-10.25	9
54	MP16	Y	-10.25	9
55	MP17	Y	-29.7	6
56	MP17	Y	-29.7	24
57	MP16	Y	-26.45	18
58	MP16	Y	-26.45	36
59	MP18	Y	-35.5	6
60	MP18	Y	-35.5	24
61	MP13	Y	-36	18
62	MP13	Y	-36	33
63	MP16	Y	-12.7	48
64	MP16	Y	-12.7	48
65	M127	Y	-13.1	24
66	M127	Y	-13.1	24

Member Point Loads (BLC 2 : Wind Load AZI 0)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	0	6
2	MP4	Z	-249.03	6
3	MP4	X	0	66
4	MP4	Z	-249.03	66
5	MP1	X	0	6
6	MP1	Z	-255.08	6
7	MP1	X	0	66
8	MP1	Z	-255.08	66
9	MP3	X	0	6
10	MP3	Z	-76.58	6
11	MP3	X	0	34
12	MP3	Z	-76.58	34
13	MP3	X	0	46
14	MP3	Z	-84.56	46
15	MP3	X	0	87
16	MP3	Z	-84.56	87
17	MP4	X	0	9
18	MP4	Z	-11.55	9
19	MP4	X	0	9
20	MP4	Z	-11.55	9
21	MP5	X	0	6
22	MP5	Z	-42.19	6
23	MP5	X	0	24
24	MP5	Z	-42.19	24
25	MP4	X	0	18

Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
26	MP4	Z	-57.01	18
27	MP4	X	0	36
28	MP4	Z	-57.01	36
29	MP6	X	0	6
30	MP6	Z	-41.07	6
31	MP6	X	0	24
32	MP6	Z	-41.07	24
33	MP1	X	0	18
34	MP1	Z	-34.21	18
35	MP1	X	0	33
36	MP1	Z	-34.21	33
37	MP4	X	0	48
38	MP4	Z	-9.05	48
39	MP4	X	0	48
40	MP4	Z	-9.05	48
41	M127	X	0	18
42	M127	Z	-19.13	18
43	M127	X	0	18
44	M127	Z	-19.13	18
45	MP10	X	0	6
46	MP10	Z	-132.4	6
47	MP10	X	0	66
48	MP10	Z	-132.4	66
49	MP7	X	0	6
50	MP7	Z	-134.85	6
51	MP7	X	0	66
52	MP7	Z	-134.85	66
53	MP9	X	0	6
54	MP9	Z	-45.02	6
55	MP9	X	0	34
56	MP9	Z	-45.02	34
57	MP9	X	0	46
58	MP9	Z	-63.93	46
59	MP9	X	0	87
60	MP9	Z	-63.93	87
61	MP10	X	0	9
62	MP10	Z	-8.99	9
63	MP10	X	0	9
64	MP10	Z	-8.99	9
65	MP11	X	0	6
66	MP11	Z	-30.05	6
67	MP11	X	0	24
68	MP11	Z	-30.05	24
69	MP10	X	0	18
70	MP10	Z	-40.37	18
71	MP10	X	0	36

Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
72	MP10	Z	-40.37	36
73	MP12	X	0	6
74	MP12	Z	-32.31	6
75	MP12	X	0	24
76	MP12	Z	-32.31	24
77	MP7	X	0	18
78	MP7	Z	-29.74	18
79	MP7	X	0	33
80	MP7	Z	-29.74	33
81	MP10	X	0	48
82	MP10	Z	-8.73	48
83	MP10	X	0	48
84	MP10	Z	-8.73	48
85	M125	X	0	18
86	M125	Z	-19.13	18
87	M125	X	0	18
88	M125	Z	-19.13	18
89	MP16	X	0	6
90	MP16	Z	-132.4	6
91	MP16	X	0	66
92	MP16	Z	-132.4	66
93	MP13	X	0	6
94	MP13	Z	-134.85	6
95	MP13	X	0	66
96	MP13	Z	-134.85	66
97	MP15	X	0	6
98	MP15	Z	-45.02	6
99	MP15	X	0	34
100	MP15	Z	-45.02	34
101	MP15	X	0	46
102	MP15	Z	-63.93	46
103	MP15	X	0	87
104	MP15	Z	-63.93	87
105	MP16	X	0	9
106	MP16	Z	-8.99	9
107	MP16	X	0	9
108	MP16	Z	-8.99	9
109	MP17	X	0	6
110	MP17	Z	-30.05	6
111	MP17	X	0	24
112	MP17	Z	-30.05	24
113	MP16	X	0	18
114	MP16	Z	-40.37	18
115	MP16	X	0	36
116	MP16	Z	-40.37	36
117	MP18	X	0	6

Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
118	MP18	Z	-32.31	6
119	MP18	X	0	24
120	MP18	Z	-32.31	24
121	MP13	X	0	18
122	MP13	Z	-29.74	18
123	MP13	X	0	33
124	MP13	Z	-29.74	33
125	MP16	X	0	48
126	MP16	Z	-8.73	48
127	MP16	X	0	48
128	MP16	Z	-8.73	48
129	M127	X	0	24
130	M127	Z	-67.81	24
131	M127	X	0	24
132	M127	Z	-67.81	24

Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-105.08	6
2	MP4	Z	-182	6
3	MP4	X	-105.08	66
4	MP4	Z	-182	66
5	MP1	X	-107.5	6
6	MP1	Z	-186.2	6
7	MP1	X	-107.5	66
8	MP1	Z	-186.2	66
9	MP3	X	-33.03	6
10	MP3	Z	-57.21	6
11	MP3	X	-33.03	34
12	MP3	Z	-57.21	34
13	MP3	X	-38.84	46
14	MP3	Z	-67.27	46
15	MP3	X	-38.84	87
16	MP3	Z	-67.27	87
17	MP4	X	-5.35	9
18	MP4	Z	-9.26	9
19	MP4	X	-5.35	9
20	MP4	Z	-9.26	9
21	MP5	X	-19.07	6
22	MP5	Z	-33.03	6
23	MP5	X	-19.07	24
24	MP5	Z	-33.03	24
25	MP4	X	-25.73	18
26	MP4	Z	-44.57	18
27	MP4	X	-25.73	36
28	MP4	Z	-44.57	36

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
29	MP6	X	-19.08	6
30	MP6	Z	-33.04	6
31	MP6	X	-19.08	24
32	MP6	Z	-33.04	24
33	MP1	X	-16.36	18
34	MP1	Z	-28.34	18
35	MP1	X	-16.36	33
36	MP1	Z	-28.34	33
37	MP4	X	-4.47	48
38	MP4	Z	-7.74	48
39	MP4	X	-4.47	48
40	MP4	Z	-7.74	48
41	M127	X	-9.57	18
42	M127	Z	-16.57	18
43	M127	X	-9.57	18
44	M127	Z	-16.57	18
45	MP10	X	-105.08	6
46	MP10	Z	-182	6
47	MP10	X	-105.08	66
48	MP10	Z	-182	66
49	MP7	X	-107.5	6
50	MP7	Z	-186.2	6
51	MP7	X	-107.5	66
52	MP7	Z	-186.2	66
53	MP9	X	-33.03	6
54	MP9	Z	-57.21	6
55	MP9	X	-33.03	34
56	MP9	Z	-57.21	34
57	MP9	X	-38.84	46
58	MP9	Z	-67.27	46
59	MP9	X	-38.84	87
60	MP9	Z	-67.27	87
61	MP10	X	-5.35	9
62	MP10	Z	-9.26	9
63	MP10	X	-5.35	9
64	MP10	Z	-9.26	9
65	MP11	X	-19.07	6
66	MP11	Z	-33.03	6
67	MP11	X	-19.07	24
68	MP11	Z	-33.03	24
69	MP10	X	-25.73	18
70	MP10	Z	-44.57	18
71	MP10	X	-25.73	36
72	MP10	Z	-44.57	36
73	MP12	X	-19.08	6
74	MP12	Z	-33.04	6

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
75	MP12	X	-19.08	24
76	MP12	Z	-33.04	24
77	MP7	X	-16.36	18
78	MP7	Z	-28.34	18
79	MP7	X	-16.36	33
80	MP7	Z	-28.34	33
81	MP10	X	-4.47	48
82	MP10	Z	-7.74	48
83	MP10	X	-4.47	48
84	MP10	Z	-7.74	48
85	M125	X	-9.57	18
86	M125	Z	-16.57	18
87	M125	X	-9.57	18
88	M125	Z	-16.57	18
89	MP16	X	-46.76	6
90	MP16	Z	-80.99	6
91	MP16	X	-46.76	66
92	MP16	Z	-80.99	66
93	MP13	X	-47.38	6
94	MP13	Z	-82.07	6
95	MP13	X	-47.38	66
96	MP13	Z	-82.07	66
97	MP15	X	-17.25	6
98	MP15	Z	-29.88	6
99	MP15	X	-17.25	34
100	MP15	Z	-29.88	34
101	MP15	X	-28.53	46
102	MP15	Z	-49.41	46
103	MP15	X	-28.53	87
104	MP15	Z	-49.41	87
105	MP16	X	-4.07	9
106	MP16	Z	-7.04	9
107	MP16	X	-4.07	9
108	MP16	Z	-7.04	9
109	MP17	X	-13	6
110	MP17	Z	-22.52	6
111	MP17	X	-13	24
112	MP17	Z	-22.52	24
113	MP16	X	-17.41	18
114	MP16	Z	-30.16	18
115	MP16	X	-17.41	36
116	MP16	Z	-30.16	36
117	MP18	X	-14.7	6
118	MP18	Z	-25.46	6
119	MP18	X	-14.7	24
120	MP18	Z	-25.46	24

Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
121	MP13	X	-14.13	18
122	MP13	Z	-24.47	18
123	MP13	X	-14.13	33
124	MP13	Z	-24.47	33
125	MP16	X	-4.31	48
126	MP16	Z	-7.47	48
127	MP16	X	-4.31	48
128	MP16	Z	-7.47	48
129	M127	X	-28.56	24
130	M127	Z	-49.47	24
131	M127	X	-28.56	24
132	M127	Z	-49.47	24

Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-114.66	6
2	MP4	Z	-66.2	6
3	MP4	X	-114.66	66
4	MP4	Z	-66.2	66
5	MP1	X	-116.78	6
6	MP1	Z	-67.42	6
7	MP1	X	-116.78	66
8	MP1	Z	-67.42	66
9	MP3	X	-38.99	6
10	MP3	Z	-22.51	6
11	MP3	X	-38.99	34
12	MP3	Z	-22.51	34
13	MP3	X	-55.36	46
14	MP3	Z	-31.96	46
15	MP3	X	-55.36	87
16	MP3	Z	-31.96	87
17	MP4	X	-7.78	9
18	MP4	Z	-4.49	9
19	MP4	X	-7.78	9
20	MP4	Z	-4.49	9
21	MP5	X	-26.03	6
22	MP5	Z	-15.03	6
23	MP5	X	-26.03	24
24	MP5	Z	-15.03	24
25	MP4	X	-34.96	18
26	MP4	Z	-20.18	18
27	MP4	X	-34.96	36
28	MP4	Z	-20.18	36
29	MP6	X	-27.98	6
30	MP6	Z	-16.16	6
31	MP6	X	-27.98	24

Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
32	MP6	Z	-16.16	24
33	MP1	X	-25.76	18
34	MP1	Z	-14.87	18
35	MP1	X	-25.76	33
36	MP1	Z	-14.87	33
37	MP4	X	-7.56	48
38	MP4	Z	-4.37	48
39	MP4	X	-7.56	48
40	MP4	Z	-4.37	48
41	M127	X	-16.57	18
42	M127	Z	-9.57	18
43	M127	X	-16.57	18
44	M127	Z	-9.57	18
45	MP10	X	-215.67	6
46	MP10	Z	-124.52	6
47	MP10	X	-215.67	66
48	MP10	Z	-124.52	66
49	MP7	X	-220.91	6
50	MP7	Z	-127.54	6
51	MP7	X	-220.91	66
52	MP7	Z	-127.54	66
53	MP9	X	-66.32	6
54	MP9	Z	-38.29	6
55	MP9	X	-66.32	34
56	MP9	Z	-38.29	34
57	MP9	X	-73.23	46
58	MP9	Z	-42.28	46
59	MP9	X	-73.23	87
60	MP9	Z	-42.28	87
61	MP10	X	-10.01	9
62	MP10	Z	-5.78	9
63	MP10	X	-10.01	9
64	MP10	Z	-5.78	9
65	MP11	X	-36.54	6
66	MP11	Z	-21.1	6
67	MP11	X	-36.54	24
68	MP11	Z	-21.1	24
69	MP10	X	-49.38	18
70	MP10	Z	-28.51	18
71	MP10	X	-49.38	36
72	MP10	Z	-28.51	36
73	MP12	X	-35.57	6
74	MP12	Z	-20.54	6
75	MP12	X	-35.57	24
76	MP12	Z	-20.54	24
77	MP7	X	-29.63	18

Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
78	MP7	Z	-17.11	18
79	MP7	X	-29.63	33
80	MP7	Z	-17.11	33
81	MP10	X	-7.83	48
82	MP10	Z	-4.52	48
83	MP10	X	-7.83	48
84	MP10	Z	-4.52	48
85	M125	X	-16.57	18
86	M125	Z	-9.57	18
87	M125	X	-16.57	18
88	M125	Z	-9.57	18
89	MP16	X	-114.66	6
90	MP16	Z	-66.2	6
91	MP16	X	-114.66	66
92	MP16	Z	-66.2	66
93	MP13	X	-116.78	6
94	MP13	Z	-67.42	6
95	MP13	X	-116.78	66
96	MP13	Z	-67.42	66
97	MP15	X	-38.99	6
98	MP15	Z	-22.51	6
99	MP15	X	-38.99	34
100	MP15	Z	-22.51	34
101	MP15	X	-55.36	46
102	MP15	Z	-31.96	46
103	MP15	X	-55.36	87
104	MP15	Z	-31.96	87
105	MP16	X	-7.78	9
106	MP16	Z	-4.49	9
107	MP16	X	-7.78	9
108	MP16	Z	-4.49	9
109	MP17	X	-26.03	6
110	MP17	Z	-15.03	6
111	MP17	X	-26.03	24
112	MP17	Z	-15.03	24
113	MP16	X	-34.96	18
114	MP16	Z	-20.18	18
115	MP16	X	-34.96	36
116	MP16	Z	-20.18	36
117	MP18	X	-27.98	6
118	MP18	Z	-16.16	6
119	MP18	X	-27.98	24
120	MP18	Z	-16.16	24
121	MP13	X	-25.76	18
122	MP13	Z	-14.87	18
123	MP13	X	-25.76	33

Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
124	MP13	Z	-14.87	33
125	MP16	X	-7.56	48
126	MP16	Z	-4.37	48
127	MP16	X	-7.56	48
128	MP16	Z	-4.37	48
129	M127	X	-58.73	24
130	M127	Z	-33.91	24
131	M127	X	-58.73	24
132	M127	Z	-33.91	24

Member Point Loads (BLC 5 : Wind Load AZI 90)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-93.52	6
2	MP4	Z	0	6
3	MP4	X	-93.52	66
4	MP4	Z	0	66
5	MP1	X	-94.77	6
6	MP1	Z	0	6
7	MP1	X	-94.77	66
8	MP1	Z	0	66
9	MP3	X	-34.5	6
10	MP3	Z	0	6
11	MP3	X	-34.5	34
12	MP3	Z	0	34
13	MP3	X	-57.05	46
14	MP3	Z	0	46
15	MP3	X	-57.05	87
16	MP3	Z	0	87
17	MP4	X	-8.13	9
18	MP4	Z	0	9
19	MP4	X	-8.13	9
20	MP4	Z	0	9
21	MP5	X	-26.01	6
22	MP5	Z	0	6
23	MP5	X	-26.01	24
24	MP5	Z	0	24
25	MP4	X	-34.82	18
26	MP4	Z	0	18
27	MP4	X	-34.82	36
28	MP4	Z	0	36
29	MP6	X	-29.39	6
30	MP6	Z	0	6
31	MP6	X	-29.39	24
32	MP6	Z	0	24
33	MP1	X	-28.25	18
34	MP1	Z	0	18

Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
35	MP1	X	-28.25	33
36	MP1	Z	0	33
37	MP4	X	-8.63	48
38	MP4	Z	0	48
39	MP4	X	-8.63	48
40	MP4	Z	0	48
41	M127	X	-19.13	18
42	M127	Z	0	18
43	M127	X	-19.13	18
44	M127	Z	0	18
45	MP10	X	-210.15	6
46	MP10	Z	0	6
47	MP10	X	-210.15	66
48	MP10	Z	0	66
49	MP7	X	-215.01	6
50	MP7	Z	0	6
51	MP7	X	-215.01	66
52	MP7	Z	0	66
53	MP9	X	-66.06	6
54	MP9	Z	0	6
55	MP9	X	-66.06	34
56	MP9	Z	0	34
57	MP9	X	-77.68	46
58	MP9	Z	0	46
59	MP9	X	-77.68	87
60	MP9	Z	0	87
61	MP10	X	-10.7	9
62	MP10	Z	0	9
63	MP10	X	-10.7	9
64	MP10	Z	0	9
65	MP11	X	-38.14	6
66	MP11	Z	0	6
67	MP11	X	-38.14	24
68	MP11	Z	0	24
69	MP10	X	-51.47	18
70	MP10	Z	0	18
71	MP10	X	-51.47	36
72	MP10	Z	0	36
73	MP12	X	-38.15	6
74	MP12	Z	0	6
75	MP12	X	-38.15	24
76	MP12	Z	0	24
77	MP7	X	-32.72	18
78	MP7	Z	0	18
79	MP7	X	-32.72	33
80	MP7	Z	0	33

Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
81	MP10	X	-8.94	48
82	MP10	Z	0	48
83	MP10	X	-8.94	48
84	MP10	Z	0	48
85	M125	X	-19.13	18
86	M125	Z	0	18
87	M125	X	-19.13	18
88	M125	Z	0	18
89	MP16	X	-210.15	6
90	MP16	Z	0	6
91	MP16	X	-210.15	66
92	MP16	Z	0	66
93	MP13	X	-215.01	6
94	MP13	Z	0	6
95	MP13	X	-215.01	66
96	MP13	Z	0	66
97	MP15	X	-66.06	6
98	MP15	Z	0	6
99	MP15	X	-66.06	34
100	MP15	Z	0	34
101	MP15	X	-77.68	46
102	MP15	Z	0	46
103	MP15	X	-77.68	87
104	MP15	Z	0	87
105	MP16	X	-10.7	9
106	MP16	Z	0	9
107	MP16	X	-10.7	9
108	MP16	Z	0	9
109	MP17	X	-38.14	6
110	MP17	Z	0	6
111	MP17	X	-38.14	24
112	MP17	Z	0	24
113	MP16	X	-51.47	18
114	MP16	Z	0	18
115	MP16	X	-51.47	36
116	MP16	Z	0	36
117	MP18	X	-38.15	6
118	MP18	Z	0	6
119	MP18	X	-38.15	24
120	MP18	Z	0	24
121	MP13	X	-32.72	18
122	MP13	Z	0	18
123	MP13	X	-32.72	33
124	MP13	Z	0	33
125	MP16	X	-8.94	48
126	MP16	Z	0	48

Member Point Loads (BLC 5 : Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
127	MP16	X	-8.94	48
128	MP16	Z	0	48
129	M127	X	-89.19	24
130	M127	Z	0	24
131	M127	X	-89.19	24
132	M127	Z	0	24

Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-114.66	6
2	MP4	Z	66.2	6
3	MP4	X	-114.66	66
4	MP4	Z	66.2	66
5	MP1	X	-116.78	6
6	MP1	Z	67.42	6
7	MP1	X	-116.78	66
8	MP1	Z	67.42	66
9	MP3	X	-38.99	6
10	MP3	Z	22.51	6
11	MP3	X	-38.99	34
12	MP3	Z	22.51	34
13	MP3	X	-55.36	46
14	MP3	Z	31.96	46
15	MP3	X	-55.36	87
16	MP3	Z	31.96	87
17	MP4	X	-7.78	9
18	MP4	Z	4.49	9
19	MP4	X	-7.78	9
20	MP4	Z	4.49	9
21	MP5	X	-26.03	6
22	MP5	Z	15.03	6
23	MP5	X	-26.03	24
24	MP5	Z	15.03	24
25	MP4	X	-34.96	18
26	MP4	Z	20.18	18
27	MP4	X	-34.96	36
28	MP4	Z	20.18	36
29	MP6	X	-27.98	6
30	MP6	Z	16.16	6
31	MP6	X	-27.98	24
32	MP6	Z	16.16	24
33	MP1	X	-25.76	18
34	MP1	Z	14.87	18
35	MP1	X	-25.76	33
36	MP1	Z	14.87	33
37	MP4	X	-7.56	48

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
38	MP4	Z	4.37	48
39	MP4	X	-7.56	48
40	MP4	Z	4.37	48
41	M127	X	-16.57	18
42	M127	Z	9.57	18
43	M127	X	-16.57	18
44	M127	Z	9.57	18
45	MP10	X	-114.66	6
46	MP10	Z	66.2	6
47	MP10	X	-114.66	66
48	MP10	Z	66.2	66
49	MP7	X	-116.78	6
50	MP7	Z	67.42	6
51	MP7	X	-116.78	66
52	MP7	Z	67.42	66
53	MP9	X	-38.99	6
54	MP9	Z	22.51	6
55	MP9	X	-38.99	34
56	MP9	Z	22.51	34
57	MP9	X	-55.36	46
58	MP9	Z	31.96	46
59	MP9	X	-55.36	87
60	MP9	Z	31.96	87
61	MP10	X	-7.78	9
62	MP10	Z	4.49	9
63	MP10	X	-7.78	9
64	MP10	Z	4.49	9
65	MP11	X	-26.03	6
66	MP11	Z	15.03	6
67	MP11	X	-26.03	24
68	MP11	Z	15.03	24
69	MP10	X	-34.96	18
70	MP10	Z	20.18	18
71	MP10	X	-34.96	36
72	MP10	Z	20.18	36
73	MP12	X	-27.98	6
74	MP12	Z	16.16	6
75	MP12	X	-27.98	24
76	MP12	Z	16.16	24
77	MP7	X	-25.76	18
78	MP7	Z	14.87	18
79	MP7	X	-25.76	33
80	MP7	Z	14.87	33
81	MP10	X	-7.56	48
82	MP10	Z	4.37	48
83	MP10	X	-7.56	48

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
84	MP10	Z	4.37	48
85	M125	X	-16.57	18
86	M125	Z	9.57	18
87	M125	X	-16.57	18
88	M125	Z	9.57	18
89	MP16	X	-215.67	6
90	MP16	Z	124.52	6
91	MP16	X	-215.67	66
92	MP16	Z	124.52	66
93	MP13	X	-220.91	6
94	MP13	Z	127.54	6
95	MP13	X	-220.91	66
96	MP13	Z	127.54	66
97	MP15	X	-66.32	6
98	MP15	Z	38.29	6
99	MP15	X	-66.32	34
100	MP15	Z	38.29	34
101	MP15	X	-73.23	46
102	MP15	Z	42.28	46
103	MP15	X	-73.23	87
104	MP15	Z	42.28	87
105	MP16	X	-10.01	9
106	MP16	Z	5.78	9
107	MP16	X	-10.01	9
108	MP16	Z	5.78	9
109	MP17	X	-36.54	6
110	MP17	Z	21.1	6
111	MP17	X	-36.54	24
112	MP17	Z	21.1	24
113	MP16	X	-49.38	18
114	MP16	Z	28.51	18
115	MP16	X	-49.38	36
116	MP16	Z	28.51	36
117	MP18	X	-35.57	6
118	MP18	Z	20.54	6
119	MP18	X	-35.57	24
120	MP18	Z	20.54	24
121	MP13	X	-29.63	18
122	MP13	Z	17.11	18
123	MP13	X	-29.63	33
124	MP13	Z	17.11	33
125	MP16	X	-7.83	48
126	MP16	Z	4.52	48
127	MP16	X	-7.83	48
128	MP16	Z	4.52	48
129	M127	X	-86.5	24

Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
130	M127	Z	49.94	24
131	M127	X	-86.5	24
132	M127	Z	49.94	24

Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-105.08	6
2	MP4	Z	182	6
3	MP4	X	-105.08	66
4	MP4	Z	182	66
5	MP1	X	-107.5	6
6	MP1	Z	186.2	6
7	MP1	X	-107.5	66
8	MP1	Z	186.2	66
9	MP3	X	-33.03	6
10	MP3	Z	57.21	6
11	MP3	X	-33.03	34
12	MP3	Z	57.21	34
13	MP3	X	-38.84	46
14	MP3	Z	67.27	46
15	MP3	X	-38.84	87
16	MP3	Z	67.27	87
17	MP4	X	-5.35	9
18	MP4	Z	9.26	9
19	MP4	X	-5.35	9
20	MP4	Z	9.26	9
21	MP5	X	-19.07	6
22	MP5	Z	33.03	6
23	MP5	X	-19.07	24
24	MP5	Z	33.03	24
25	MP4	X	-25.73	18
26	MP4	Z	44.57	18
27	MP4	X	-25.73	36
28	MP4	Z	44.57	36
29	MP6	X	-19.08	6
30	MP6	Z	33.04	6
31	MP6	X	-19.08	24
32	MP6	Z	33.04	24
33	MP1	X	-16.36	18
34	MP1	Z	28.34	18
35	MP1	X	-16.36	33
36	MP1	Z	28.34	33
37	MP4	X	-4.47	48
38	MP4	Z	7.74	48
39	MP4	X	-4.47	48
40	MP4	Z	7.74	48

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
41	M127	X	-9.57	18
42	M127	Z	16.57	18
43	M127	X	-9.57	18
44	M127	Z	16.57	18
45	MP10	X	-46.76	6
46	MP10	Z	80.99	6
47	MP10	X	-46.76	66
48	MP10	Z	80.99	66
49	MP7	X	-47.38	6
50	MP7	Z	82.07	6
51	MP7	X	-47.38	66
52	MP7	Z	82.07	66
53	MP9	X	-17.25	6
54	MP9	Z	29.88	6
55	MP9	X	-17.25	34
56	MP9	Z	29.88	34
57	MP9	X	-28.53	46
58	MP9	Z	49.41	46
59	MP9	X	-28.53	87
60	MP9	Z	49.41	87
61	MP10	X	-4.07	9
62	MP10	Z	7.04	9
63	MP10	X	-4.07	9
64	MP10	Z	7.04	9
65	MP11	X	-13	6
66	MP11	Z	22.52	6
67	MP11	X	-13	24
68	MP11	Z	22.52	24
69	MP10	X	-17.41	18
70	MP10	Z	30.16	18
71	MP10	X	-17.41	36
72	MP10	Z	30.16	36
73	MP12	X	-14.7	6
74	MP12	Z	25.46	6
75	MP12	X	-14.7	24
76	MP12	Z	25.46	24
77	MP7	X	-14.13	18
78	MP7	Z	24.47	18
79	MP7	X	-14.13	33
80	MP7	Z	24.47	33
81	MP10	X	-4.31	48
82	MP10	Z	7.47	48
83	MP10	X	-4.31	48
84	MP10	Z	7.47	48
85	M125	X	-9.57	18
86	M125	Z	16.57	18

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
87	M125	X	-9.57	18
88	M125	Z	16.57	18
89	MP16	X	-105.08	6
90	MP16	Z	182	6
91	MP16	X	-105.08	66
92	MP16	Z	182	66
93	MP13	X	-107.5	6
94	MP13	Z	186.2	6
95	MP13	X	-107.5	66
96	MP13	Z	186.2	66
97	MP15	X	-33.03	6
98	MP15	Z	57.21	6
99	MP15	X	-33.03	34
100	MP15	Z	57.21	34
101	MP15	X	-38.84	46
102	MP15	Z	67.27	46
103	MP15	X	-38.84	87
104	MP15	Z	67.27	87
105	MP16	X	-5.35	9
106	MP16	Z	9.26	9
107	MP16	X	-5.35	9
108	MP16	Z	9.26	9
109	MP17	X	-19.07	6
110	MP17	Z	33.03	6
111	MP17	X	-19.07	24
112	MP17	Z	33.03	24
113	MP16	X	-25.73	18
114	MP16	Z	44.57	18
115	MP16	X	-25.73	36
116	MP16	Z	44.57	36
117	MP18	X	-19.08	6
118	MP18	Z	33.04	6
119	MP18	X	-19.08	24
120	MP18	Z	33.04	24
121	MP13	X	-16.36	18
122	MP13	Z	28.34	18
123	MP13	X	-16.36	33
124	MP13	Z	28.34	33
125	MP16	X	-4.47	48
126	MP16	Z	7.74	48
127	MP16	X	-4.47	48
128	MP16	Z	7.74	48
129	M127	X	-44.6	24
130	M127	Z	77.24	24
131	M127	X	-44.6	24
132	M127	Z	77.24	24

Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]

Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	0	6
2	MP4	Z	249.03	6
3	MP4	X	0	66
4	MP4	Z	249.03	66
5	MP1	X	0	6
6	MP1	Z	255.08	6
7	MP1	X	0	66
8	MP1	Z	255.08	66
9	MP3	X	0	6
10	MP3	Z	76.58	6
11	MP3	X	0	34
12	MP3	Z	76.58	34
13	MP3	X	0	46
14	MP3	Z	84.56	46
15	MP3	X	0	87
16	MP3	Z	84.56	87
17	MP4	X	0	9
18	MP4	Z	11.55	9
19	MP4	X	0	9
20	MP4	Z	11.55	9
21	MP5	X	0	6
22	MP5	Z	42.19	6
23	MP5	X	0	24
24	MP5	Z	42.19	24
25	MP4	X	0	18
26	MP4	Z	57.01	18
27	MP4	X	0	36
28	MP4	Z	57.01	36
29	MP6	X	0	6
30	MP6	Z	41.07	6
31	MP6	X	0	24
32	MP6	Z	41.07	24
33	MP1	X	0	18
34	MP1	Z	34.21	18
35	MP1	X	0	33
36	MP1	Z	34.21	33
37	MP4	X	0	48
38	MP4	Z	9.05	48
39	MP4	X	0	48
40	MP4	Z	9.05	48
41	M127	X	0	18
42	M127	Z	19.13	18
43	M127	X	0	18
44	M127	Z	19.13	18
45	MP10	X	0	6
46	MP10	Z	132.4	6

Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
47	MP10	X	0	66
48	MP10	Z	132.4	66
49	MP7	X	0	6
50	MP7	Z	134.85	6
51	MP7	X	0	66
52	MP7	Z	134.85	66
53	MP9	X	0	6
54	MP9	Z	45.02	6
55	MP9	X	0	34
56	MP9	Z	45.02	34
57	MP9	X	0	46
58	MP9	Z	63.93	46
59	MP9	X	0	87
60	MP9	Z	63.93	87
61	MP10	X	0	9
62	MP10	Z	8.99	9
63	MP10	X	0	9
64	MP10	Z	8.99	9
65	MP11	X	0	6
66	MP11	Z	30.05	6
67	MP11	X	0	24
68	MP11	Z	30.05	24
69	MP10	X	0	18
70	MP10	Z	40.37	18
71	MP10	X	0	36
72	MP10	Z	40.37	36
73	MP12	X	0	6
74	MP12	Z	32.31	6
75	MP12	X	0	24
76	MP12	Z	32.31	24
77	MP7	X	0	18
78	MP7	Z	29.74	18
79	MP7	X	0	33
80	MP7	Z	29.74	33
81	MP10	X	0	48
82	MP10	Z	8.73	48
83	MP10	X	0	48
84	MP10	Z	8.73	48
85	M125	X	0	18
86	M125	Z	19.13	18
87	M125	X	0	18
88	M125	Z	19.13	18
89	MP16	X	0	6
90	MP16	Z	132.4	6
91	MP16	X	0	66
92	MP16	Z	132.4	66

Member Point Loads (BLC 8 : Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
93	MP13	X	0	6
94	MP13	Z	134.85	6
95	MP13	X	0	66
96	MP13	Z	134.85	66
97	MP15	X	0	6
98	MP15	Z	45.02	6
99	MP15	X	0	34
100	MP15	Z	45.02	34
101	MP15	X	0	46
102	MP15	Z	63.93	46
103	MP15	X	0	87
104	MP15	Z	63.93	87
105	MP16	X	0	9
106	MP16	Z	8.99	9
107	MP16	X	0	9
108	MP16	Z	8.99	9
109	MP17	X	0	6
110	MP17	Z	30.05	6
111	MP17	X	0	24
112	MP17	Z	30.05	24
113	MP16	X	0	18
114	MP16	Z	40.37	18
115	MP16	X	0	36
116	MP16	Z	40.37	36
117	MP18	X	0	6
118	MP18	Z	32.31	6
119	MP18	X	0	24
120	MP18	Z	32.31	24
121	MP13	X	0	18
122	MP13	Z	29.74	18
123	MP13	X	0	33
124	MP13	Z	29.74	33
125	MP16	X	0	48
126	MP16	Z	8.73	48
127	MP16	X	0	48
128	MP16	Z	8.73	48
129	M127	X	0	24
130	M127	Z	67.81	24
131	M127	X	0	24
132	M127	Z	67.81	24

Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	105.08	6
2	MP4	Z	182	6
3	MP4	X	105.08	66

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
4	MP4	Z	182	66
5	MP1	X	107.5	6
6	MP1	Z	186.2	6
7	MP1	X	107.5	66
8	MP1	Z	186.2	66
9	MP3	X	33.03	6
10	MP3	Z	57.21	6
11	MP3	X	33.03	34
12	MP3	Z	57.21	34
13	MP3	X	38.84	46
14	MP3	Z	67.27	46
15	MP3	X	38.84	87
16	MP3	Z	67.27	87
17	MP4	X	5.35	9
18	MP4	Z	9.26	9
19	MP4	X	5.35	9
20	MP4	Z	9.26	9
21	MP5	X	19.07	6
22	MP5	Z	33.03	6
23	MP5	X	19.07	24
24	MP5	Z	33.03	24
25	MP4	X	25.73	18
26	MP4	Z	44.57	18
27	MP4	X	25.73	36
28	MP4	Z	44.57	36
29	MP6	X	19.08	6
30	MP6	Z	33.04	6
31	MP6	X	19.08	24
32	MP6	Z	33.04	24
33	MP1	X	16.36	18
34	MP1	Z	28.34	18
35	MP1	X	16.36	33
36	MP1	Z	28.34	33
37	MP4	X	4.47	48
38	MP4	Z	7.74	48
39	MP4	X	4.47	48
40	MP4	Z	7.74	48
41	M127	X	9.57	18
42	M127	Z	16.57	18
43	M127	X	9.57	18
44	M127	Z	16.57	18
45	MP10	X	105.08	6
46	MP10	Z	182	6
47	MP10	X	105.08	66
48	MP10	Z	182	66
49	MP7	X	107.5	6

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
50	MP7	Z	186.2	6
51	MP7	X	107.5	66
52	MP7	Z	186.2	66
53	MP9	X	33.03	6
54	MP9	Z	57.21	6
55	MP9	X	33.03	34
56	MP9	Z	57.21	34
57	MP9	X	38.84	46
58	MP9	Z	67.27	46
59	MP9	X	38.84	87
60	MP9	Z	67.27	87
61	MP10	X	5.35	9
62	MP10	Z	9.26	9
63	MP10	X	5.35	9
64	MP10	Z	9.26	9
65	MP11	X	19.07	6
66	MP11	Z	33.03	6
67	MP11	X	19.07	24
68	MP11	Z	33.03	24
69	MP10	X	25.73	18
70	MP10	Z	44.57	18
71	MP10	X	25.73	36
72	MP10	Z	44.57	36
73	MP12	X	19.08	6
74	MP12	Z	33.04	6
75	MP12	X	19.08	24
76	MP12	Z	33.04	24
77	MP7	X	16.36	18
78	MP7	Z	28.34	18
79	MP7	X	16.36	33
80	MP7	Z	28.34	33
81	MP10	X	4.47	48
82	MP10	Z	7.74	48
83	MP10	X	4.47	48
84	MP10	Z	7.74	48
85	M125	X	9.57	18
86	M125	Z	16.57	18
87	M125	X	9.57	18
88	M125	Z	16.57	18
89	MP16	X	46.76	6
90	MP16	Z	80.99	6
91	MP16	X	46.76	66
92	MP16	Z	80.99	66
93	MP13	X	47.38	6
94	MP13	Z	82.07	6
95	MP13	X	47.38	66

Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
96	MP13	Z	82.07	66
97	MP15	X	17.25	6
98	MP15	Z	29.88	6
99	MP15	X	17.25	34
100	MP15	Z	29.88	34
101	MP15	X	28.53	46
102	MP15	Z	49.41	46
103	MP15	X	28.53	87
104	MP15	Z	49.41	87
105	MP16	X	4.07	9
106	MP16	Z	7.04	9
107	MP16	X	4.07	9
108	MP16	Z	7.04	9
109	MP17	X	13	6
110	MP17	Z	22.52	6
111	MP17	X	13	24
112	MP17	Z	22.52	24
113	MP16	X	17.41	18
114	MP16	Z	30.16	18
115	MP16	X	17.41	36
116	MP16	Z	30.16	36
117	MP18	X	14.7	6
118	MP18	Z	25.46	6
119	MP18	X	14.7	24
120	MP18	Z	25.46	24
121	MP13	X	14.13	18
122	MP13	Z	24.47	18
123	MP13	X	14.13	33
124	MP13	Z	24.47	33
125	MP16	X	4.31	48
126	MP16	Z	7.47	48
127	MP16	X	4.31	48
128	MP16	Z	7.47	48
129	M127	X	28.56	24
130	M127	Z	49.47	24
131	M127	X	28.56	24
132	M127	Z	49.47	24

Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	114.66	6
2	MP4	Z	66.2	6
3	MP4	X	114.66	66
4	MP4	Z	66.2	66
5	MP1	X	116.78	6
6	MP1	Z	67.42	6

Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
7	MP1	X	116.78	66
8	MP1	Z	67.42	66
9	MP3	X	38.99	6
10	MP3	Z	22.51	6
11	MP3	X	38.99	34
12	MP3	Z	22.51	34
13	MP3	X	55.36	46
14	MP3	Z	31.96	46
15	MP3	X	55.36	87
16	MP3	Z	31.96	87
17	MP4	X	7.78	9
18	MP4	Z	4.49	9
19	MP4	X	7.78	9
20	MP4	Z	4.49	9
21	MP5	X	26.03	6
22	MP5	Z	15.03	6
23	MP5	X	26.03	24
24	MP5	Z	15.03	24
25	MP4	X	34.96	18
26	MP4	Z	20.18	18
27	MP4	X	34.96	36
28	MP4	Z	20.18	36
29	MP6	X	27.98	6
30	MP6	Z	16.16	6
31	MP6	X	27.98	24
32	MP6	Z	16.16	24
33	MP1	X	25.76	18
34	MP1	Z	14.87	18
35	MP1	X	25.76	33
36	MP1	Z	14.87	33
37	MP4	X	7.56	48
38	MP4	Z	4.37	48
39	MP4	X	7.56	48
40	MP4	Z	4.37	48
41	M127	X	16.57	18
42	M127	Z	9.57	18
43	M127	X	16.57	18
44	M127	Z	9.57	18
45	MP10	X	215.67	6
46	MP10	Z	124.52	6
47	MP10	X	215.67	66
48	MP10	Z	124.52	66
49	MP7	X	220.91	6
50	MP7	Z	127.54	6
51	MP7	X	220.91	66
52	MP7	Z	127.54	66

Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
53	MP9	X	66.32	6
54	MP9	Z	38.29	6
55	MP9	X	66.32	34
56	MP9	Z	38.29	34
57	MP9	X	73.23	46
58	MP9	Z	42.28	46
59	MP9	X	73.23	87
60	MP9	Z	42.28	87
61	MP10	X	10.01	9
62	MP10	Z	5.78	9
63	MP10	X	10.01	9
64	MP10	Z	5.78	9
65	MP11	X	36.54	6
66	MP11	Z	21.1	6
67	MP11	X	36.54	24
68	MP11	Z	21.1	24
69	MP10	X	49.38	18
70	MP10	Z	28.51	18
71	MP10	X	49.38	36
72	MP10	Z	28.51	36
73	MP12	X	35.57	6
74	MP12	Z	20.54	6
75	MP12	X	35.57	24
76	MP12	Z	20.54	24
77	MP7	X	29.63	18
78	MP7	Z	17.11	18
79	MP7	X	29.63	33
80	MP7	Z	17.11	33
81	MP10	X	7.83	48
82	MP10	Z	4.52	48
83	MP10	X	7.83	48
84	MP10	Z	4.52	48
85	M125	X	16.57	18
86	M125	Z	9.57	18
87	M125	X	16.57	18
88	M125	Z	9.57	18
89	MP16	X	114.66	6
90	MP16	Z	66.2	6
91	MP16	X	114.66	66
92	MP16	Z	66.2	66
93	MP13	X	116.78	6
94	MP13	Z	67.42	6
95	MP13	X	116.78	66
96	MP13	Z	67.42	66
97	MP15	X	38.99	6
98	MP15	Z	22.51	6

Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
99	MP15	X	38.99	34
100	MP15	Z	22.51	34
101	MP15	X	55.36	46
102	MP15	Z	31.96	46
103	MP15	X	55.36	87
104	MP15	Z	31.96	87
105	MP16	X	7.78	9
106	MP16	Z	4.49	9
107	MP16	X	7.78	9
108	MP16	Z	4.49	9
109	MP17	X	26.03	6
110	MP17	Z	15.03	6
111	MP17	X	26.03	24
112	MP17	Z	15.03	24
113	MP16	X	34.96	18
114	MP16	Z	20.18	18
115	MP16	X	34.96	36
116	MP16	Z	20.18	36
117	MP18	X	27.98	6
118	MP18	Z	16.16	6
119	MP18	X	27.98	24
120	MP18	Z	16.16	24
121	MP13	X	25.76	18
122	MP13	Z	14.87	18
123	MP13	X	25.76	33
124	MP13	Z	14.87	33
125	MP16	X	7.56	48
126	MP16	Z	4.37	48
127	MP16	X	7.56	48
128	MP16	Z	4.37	48
129	M127	X	58.73	24
130	M127	Z	33.91	24
131	M127	X	58.73	24
132	M127	Z	33.91	24

Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	93.52	6
2	MP4	Z	0	6
3	MP4	X	93.52	66
4	MP4	Z	0	66
5	MP1	X	94.77	6
6	MP1	Z	0	6
7	MP1	X	94.77	66
8	MP1	Z	0	66
9	MP3	X	34.5	6

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
10	MP3	Z	0	6
11	MP3	X	34.5	34
12	MP3	Z	0	34
13	MP3	X	57.05	46
14	MP3	Z	0	46
15	MP3	X	57.05	87
16	MP3	Z	0	87
17	MP4	X	8.13	9
18	MP4	Z	0	9
19	MP4	X	8.13	9
20	MP4	Z	0	9
21	MP5	X	26.01	6
22	MP5	Z	0	6
23	MP5	X	26.01	24
24	MP5	Z	0	24
25	MP4	X	34.82	18
26	MP4	Z	0	18
27	MP4	X	34.82	36
28	MP4	Z	0	36
29	MP6	X	29.39	6
30	MP6	Z	0	6
31	MP6	X	29.39	24
32	MP6	Z	0	24
33	MP1	X	28.25	18
34	MP1	Z	0	18
35	MP1	X	28.25	33
36	MP1	Z	0	33
37	MP4	X	8.63	48
38	MP4	Z	0	48
39	MP4	X	8.63	48
40	MP4	Z	0	48
41	M127	X	19.13	18
42	M127	Z	0	18
43	M127	X	19.13	18
44	M127	Z	0	18
45	MP10	X	210.15	6
46	MP10	Z	0	6
47	MP10	X	210.15	66
48	MP10	Z	0	66
49	MP7	X	215.01	6
50	MP7	Z	0	6
51	MP7	X	215.01	66
52	MP7	Z	0	66
53	MP9	X	66.06	6
54	MP9	Z	0	6
55	MP9	X	66.06	34

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
56	MP9	Z	0	34
57	MP9	X	77.68	46
58	MP9	Z	0	46
59	MP9	X	77.68	87
60	MP9	Z	0	87
61	MP10	X	10.7	9
62	MP10	Z	0	9
63	MP10	X	10.7	9
64	MP10	Z	0	9
65	MP11	X	38.14	6
66	MP11	Z	0	6
67	MP11	X	38.14	24
68	MP11	Z	0	24
69	MP10	X	51.47	18
70	MP10	Z	0	18
71	MP10	X	51.47	36
72	MP10	Z	0	36
73	MP12	X	38.15	6
74	MP12	Z	0	6
75	MP12	X	38.15	24
76	MP12	Z	0	24
77	MP7	X	32.72	18
78	MP7	Z	0	18
79	MP7	X	32.72	33
80	MP7	Z	0	33
81	MP10	X	8.94	48
82	MP10	Z	0	48
83	MP10	X	8.94	48
84	MP10	Z	0	48
85	M125	X	19.13	18
86	M125	Z	0	18
87	M125	X	19.13	18
88	M125	Z	0	18
89	MP16	X	210.15	6
90	MP16	Z	0	6
91	MP16	X	210.15	66
92	MP16	Z	0	66
93	MP13	X	215.01	6
94	MP13	Z	0	6
95	MP13	X	215.01	66
96	MP13	Z	0	66
97	MP15	X	66.06	6
98	MP15	Z	0	6
99	MP15	X	66.06	34
100	MP15	Z	0	34
101	MP15	X	77.68	46

Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
102	MP15	Z	0	46
103	MP15	X	77.68	87
104	MP15	Z	0	87
105	MP16	X	10.7	9
106	MP16	Z	0	9
107	MP16	X	10.7	9
108	MP16	Z	0	9
109	MP17	X	38.14	6
110	MP17	Z	0	6
111	MP17	X	38.14	24
112	MP17	Z	0	24
113	MP16	X	51.47	18
114	MP16	Z	0	18
115	MP16	X	51.47	36
116	MP16	Z	0	36
117	MP18	X	38.15	6
118	MP18	Z	0	6
119	MP18	X	38.15	24
120	MP18	Z	0	24
121	MP13	X	32.72	18
122	MP13	Z	0	18
123	MP13	X	32.72	33
124	MP13	Z	0	33
125	MP16	X	8.94	48
126	MP16	Z	0	48
127	MP16	X	8.94	48
128	MP16	Z	0	48
129	M127	X	89.19	24
130	M127	Z	0	24
131	M127	X	89.19	24
132	M127	Z	0	24

Member Point Loads (BLC 12 : Wind Load AZI 300)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	114.66	6
2	MP4	Z	-66.2	6
3	MP4	X	114.66	66
4	MP4	Z	-66.2	66
5	MP1	X	116.78	6
6	MP1	Z	-67.42	6
7	MP1	X	116.78	66
8	MP1	Z	-67.42	66
9	MP3	X	38.99	6
10	MP3	Z	-22.51	6
11	MP3	X	38.99	34
12	MP3	Z	-22.51	34

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
13	MP3	X	55.36	46
14	MP3	Z	-31.96	46
15	MP3	X	55.36	87
16	MP3	Z	-31.96	87
17	MP4	X	7.78	9
18	MP4	Z	-4.49	9
19	MP4	X	7.78	9
20	MP4	Z	-4.49	9
21	MP5	X	26.03	6
22	MP5	Z	-15.03	6
23	MP5	X	26.03	24
24	MP5	Z	-15.03	24
25	MP4	X	34.96	18
26	MP4	Z	-20.18	18
27	MP4	X	34.96	36
28	MP4	Z	-20.18	36
29	MP6	X	27.98	6
30	MP6	Z	-16.16	6
31	MP6	X	27.98	24
32	MP6	Z	-16.16	24
33	MP1	X	25.76	18
34	MP1	Z	-14.87	18
35	MP1	X	25.76	33
36	MP1	Z	-14.87	33
37	MP4	X	7.56	48
38	MP4	Z	-4.37	48
39	MP4	X	7.56	48
40	MP4	Z	-4.37	48
41	M127	X	16.57	18
42	M127	Z	-9.57	18
43	M127	X	16.57	18
44	M127	Z	-9.57	18
45	MP10	X	114.66	6
46	MP10	Z	-66.2	6
47	MP10	X	114.66	66
48	MP10	Z	-66.2	66
49	MP7	X	116.78	6
50	MP7	Z	-67.42	6
51	MP7	X	116.78	66
52	MP7	Z	-67.42	66
53	MP9	X	38.99	6
54	MP9	Z	-22.51	6
55	MP9	X	38.99	34
56	MP9	Z	-22.51	34
57	MP9	X	55.36	46
58	MP9	Z	-31.96	46

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
59	MP9	X	55.36	87
60	MP9	Z	-31.96	87
61	MP10	X	7.78	9
62	MP10	Z	-4.49	9
63	MP10	X	7.78	9
64	MP10	Z	-4.49	9
65	MP11	X	26.03	6
66	MP11	Z	-15.03	6
67	MP11	X	26.03	24
68	MP11	Z	-15.03	24
69	MP10	X	34.96	18
70	MP10	Z	-20.18	18
71	MP10	X	34.96	36
72	MP10	Z	-20.18	36
73	MP12	X	27.98	6
74	MP12	Z	-16.16	6
75	MP12	X	27.98	24
76	MP12	Z	-16.16	24
77	MP7	X	25.76	18
78	MP7	Z	-14.87	18
79	MP7	X	25.76	33
80	MP7	Z	-14.87	33
81	MP10	X	7.56	48
82	MP10	Z	-4.37	48
83	MP10	X	7.56	48
84	MP10	Z	-4.37	48
85	M125	X	16.57	18
86	M125	Z	-9.57	18
87	M125	X	16.57	18
88	M125	Z	-9.57	18
89	MP16	X	215.67	6
90	MP16	Z	-124.52	6
91	MP16	X	215.67	66
92	MP16	Z	-124.52	66
93	MP13	X	220.91	6
94	MP13	Z	-127.54	6
95	MP13	X	220.91	66
96	MP13	Z	-127.54	66
97	MP15	X	66.32	6
98	MP15	Z	-38.29	6
99	MP15	X	66.32	34
100	MP15	Z	-38.29	34
101	MP15	X	73.23	46
102	MP15	Z	-42.28	46
103	MP15	X	73.23	87
104	MP15	Z	-42.28	87

Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
105	MP16	X	10.01	9
106	MP16	Z	-5.78	9
107	MP16	X	10.01	9
108	MP16	Z	-5.78	9
109	MP17	X	36.54	6
110	MP17	Z	-21.1	6
111	MP17	X	36.54	24
112	MP17	Z	-21.1	24
113	MP16	X	49.38	18
114	MP16	Z	-28.51	18
115	MP16	X	49.38	36
116	MP16	Z	-28.51	36
117	MP18	X	35.57	6
118	MP18	Z	-20.54	6
119	MP18	X	35.57	24
120	MP18	Z	-20.54	24
121	MP13	X	29.63	18
122	MP13	Z	-17.11	18
123	MP13	X	29.63	33
124	MP13	Z	-17.11	33
125	MP16	X	7.83	48
126	MP16	Z	-4.52	48
127	MP16	X	7.83	48
128	MP16	Z	-4.52	48
129	M127	X	86.5	24
130	M127	Z	-49.94	24
131	M127	X	86.5	24
132	M127	Z	-49.94	24

Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	105.08	6
2	MP4	Z	-182	6
3	MP4	X	105.08	66
4	MP4	Z	-182	66
5	MP1	X	107.5	6
6	MP1	Z	-186.2	6
7	MP1	X	107.5	66
8	MP1	Z	-186.2	66
9	MP3	X	33.03	6
10	MP3	Z	-57.21	6
11	MP3	X	33.03	34
12	MP3	Z	-57.21	34
13	MP3	X	38.84	46
14	MP3	Z	-67.27	46
15	MP3	X	38.84	87

Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
16	MP3	Z	-67.27	87
17	MP4	X	5.35	9
18	MP4	Z	-9.26	9
19	MP4	X	5.35	9
20	MP4	Z	-9.26	9
21	MP5	X	19.07	6
22	MP5	Z	-33.03	6
23	MP5	X	19.07	24
24	MP5	Z	-33.03	24
25	MP4	X	25.73	18
26	MP4	Z	-44.57	18
27	MP4	X	25.73	36
28	MP4	Z	-44.57	36
29	MP6	X	19.08	6
30	MP6	Z	-33.04	6
31	MP6	X	19.08	24
32	MP6	Z	-33.04	24
33	MP1	X	16.36	18
34	MP1	Z	-28.34	18
35	MP1	X	16.36	33
36	MP1	Z	-28.34	33
37	MP4	X	4.47	48
38	MP4	Z	-7.74	48
39	MP4	X	4.47	48
40	MP4	Z	-7.74	48
41	M127	X	9.57	18
42	M127	Z	-16.57	18
43	M127	X	9.57	18
44	M127	Z	-16.57	18
45	MP10	X	46.76	6
46	MP10	Z	-80.99	6
47	MP10	X	46.76	66
48	MP10	Z	-80.99	66
49	MP7	X	47.38	6
50	MP7	Z	-82.07	6
51	MP7	X	47.38	66
52	MP7	Z	-82.07	66
53	MP9	X	17.25	6
54	MP9	Z	-29.88	6
55	MP9	X	17.25	34
56	MP9	Z	-29.88	34
57	MP9	X	28.53	46
58	MP9	Z	-49.41	46
59	MP9	X	28.53	87
60	MP9	Z	-49.41	87
61	MP10	X	4.07	9

Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
62	MP10	Z	-7.04	9
63	MP10	X	4.07	9
64	MP10	Z	-7.04	9
65	MP11	X	13	6
66	MP11	Z	-22.52	6
67	MP11	X	13	24
68	MP11	Z	-22.52	24
69	MP10	X	17.41	18
70	MP10	Z	-30.16	18
71	MP10	X	17.41	36
72	MP10	Z	-30.16	36
73	MP12	X	14.7	6
74	MP12	Z	-25.46	6
75	MP12	X	14.7	24
76	MP12	Z	-25.46	24
77	MP7	X	14.13	18
78	MP7	Z	-24.47	18
79	MP7	X	14.13	33
80	MP7	Z	-24.47	33
81	MP10	X	4.31	48
82	MP10	Z	-7.47	48
83	MP10	X	4.31	48
84	MP10	Z	-7.47	48
85	M125	X	9.57	18
86	M125	Z	-16.57	18
87	M125	X	9.57	18
88	M125	Z	-16.57	18
89	MP16	X	105.08	6
90	MP16	Z	-182	6
91	MP16	X	105.08	66
92	MP16	Z	-182	66
93	MP13	X	107.5	6
94	MP13	Z	-186.2	6
95	MP13	X	107.5	66
96	MP13	Z	-186.2	66
97	MP15	X	33.03	6
98	MP15	Z	-57.21	6
99	MP15	X	33.03	34
100	MP15	Z	-57.21	34
101	MP15	X	38.84	46
102	MP15	Z	-67.27	46
103	MP15	X	38.84	87
104	MP15	Z	-67.27	87
105	MP16	X	5.35	9
106	MP16	Z	-9.26	9
107	MP16	X	5.35	9

Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
108	MP16	Z	-9.26	9
109	MP17	X	19.07	6
110	MP17	Z	-33.03	6
111	MP17	X	19.07	24
112	MP17	Z	-33.03	24
113	MP16	X	25.73	18
114	MP16	Z	-44.57	18
115	MP16	X	25.73	36
116	MP16	Z	-44.57	36
117	MP18	X	19.08	6
118	MP18	Z	-33.04	6
119	MP18	X	19.08	24
120	MP18	Z	-33.04	24
121	MP13	X	16.36	18
122	MP13	Z	-28.34	18
123	MP13	X	16.36	33
124	MP13	Z	-28.34	33
125	MP16	X	4.47	48
126	MP16	Z	-7.74	48
127	MP16	X	4.47	48
128	MP16	Z	-7.74	48
129	M127	X	44.6	24
130	M127	Z	-77.24	24
131	M127	X	44.6	24
132	M127	Z	-77.24	24

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	Y	-89.386	6
2	MP4	Y	-89.386	66
3	MP1	Y	-90.638	6
4	MP1	Y	-90.638	66
5	MP3	Y	-31.562	6
6	MP3	Y	-31.562	34
7	MP3	Y	-41.18	46
8	MP3	Y	-41.18	87
9	MP4	Y	-7.953	9
10	MP4	Y	-7.953	9
11	MP5	Y	-22.17	6
12	MP5	Y	-22.17	24
13	MP4	Y	-26.413	18
14	MP4	Y	-26.413	36
15	MP6	Y	-23.23	6
16	MP6	Y	-23.23	24
17	MP1	Y	-22.115	18
18	MP1	Y	-22.115	33

Member Point Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
19	MP4	Y	-7.198	48
20	MP4	Y	-7.198	48
21	M127	Y	-28.113	18
22	M127	Y	-28.113	18
23	MP10	Y	-89.386	6
24	MP10	Y	-89.386	66
25	MP7	Y	-90.638	6
26	MP7	Y	-90.638	66
27	MP9	Y	-31.562	6
28	MP9	Y	-31.562	34
29	MP9	Y	-41.18	46
30	MP9	Y	-41.18	87
31	MP10	Y	-7.953	9
32	MP10	Y	-7.953	9
33	MP11	Y	-22.17	6
34	MP11	Y	-22.17	24
35	MP10	Y	-26.413	18
36	MP10	Y	-26.413	36
37	MP12	Y	-23.23	6
38	MP12	Y	-23.23	24
39	MP7	Y	-22.115	18
40	MP7	Y	-22.115	33
41	MP10	Y	-7.198	48
42	MP10	Y	-7.198	48
43	M125	Y	-28.113	18
44	M125	Y	-28.113	18
45	MP16	Y	-89.386	6
46	MP16	Y	-89.386	66
47	MP13	Y	-90.638	6
48	MP13	Y	-90.638	66
49	MP15	Y	-31.562	6
50	MP15	Y	-31.562	34
51	MP15	Y	-41.18	46
52	MP15	Y	-41.18	87
53	MP16	Y	-7.953	9
54	MP16	Y	-7.953	9
55	MP17	Y	-22.17	6
56	MP17	Y	-22.17	24
57	MP16	Y	-26.413	18
58	MP16	Y	-26.413	36
59	MP18	Y	-23.23	6
60	MP18	Y	-23.23	24
61	MP13	Y	-22.115	18
62	MP13	Y	-22.115	33
63	MP16	Y	-7.198	48
64	MP16	Y	-7.198	48

Member Point Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
65	M127	Y	-45.36	24
66	M127	Y	-45.36	24

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	0	6
2	MP4	Z	-21.91	6
3	MP4	X	0	66
4	MP4	Z	-21.91	66
5	MP1	X	0	6
6	MP1	Z	-22.16	6
7	MP1	X	0	66
8	MP1	Z	-22.16	66
9	MP3	X	0	6
10	MP3	Z	-6.86	6
11	MP3	X	0	34
12	MP3	Z	-6.86	34
13	MP3	X	0	46
14	MP3	Z	-7.52	46
15	MP3	X	0	87
16	MP3	Z	-7.52	87
17	MP4	X	0	9
18	MP4	Z	-1.7	9
19	MP4	X	0	9
20	MP4	Z	-1.7	9
21	MP5	X	0	6
22	MP5	Z	-4.1	6
23	MP5	X	0	24
24	MP5	Z	-4.1	24
25	MP4	X	0	18
26	MP4	Z	-5.66	18
27	MP4	X	0	36
28	MP4	Z	-5.66	36
29	MP6	X	0	6
30	MP6	Z	-4.03	6
31	MP6	X	0	24
32	MP6	Z	-4.03	24
33	MP1	X	0	18
34	MP1	Z	-3.43	18
35	MP1	X	0	33
36	MP1	Z	-3.43	33
37	MP4	X	0	48
38	MP4	Z	-1.53	48
39	MP4	X	0	48
40	MP4	Z	-1.53	48
41	M127	X	0	18

Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
42	M127	Z	-4.85	18
43	M127	X	0	18
44	M127	Z	-4.85	18
45	MP10	X	0	6
46	MP10	Z	-15.72	6
47	MP10	X	0	66
48	MP10	Z	-15.72	66
49	MP7	X	0	6
50	MP7	Z	-15.83	6
51	MP7	X	0	66
52	MP7	Z	-15.83	66
53	MP9	X	0	6
54	MP9	Z	-5.23	6
55	MP9	X	0	34
56	MP9	Z	-5.23	34
57	MP9	X	0	46
58	MP9	Z	-6.37	46
59	MP9	X	0	87
60	MP9	Z	-6.37	87
61	MP10	X	0	9
62	MP10	Z	-1.53	9
63	MP10	X	0	9
64	MP10	Z	-1.53	9
65	MP11	X	0	6
66	MP11	Z	-3.53	6
67	MP11	X	0	24
68	MP11	Z	-3.53	24
69	MP10	X	0	18
70	MP10	Z	-4.89	18
71	MP10	X	0	36
72	MP10	Z	-4.89	36
73	MP12	X	0	6
74	MP12	Z	-3.63	6
75	MP12	X	0	24
76	MP12	Z	-3.63	24
77	MP7	X	0	18
78	MP7	Z	-3.23	18
79	MP7	X	0	33
80	MP7	Z	-3.23	33
81	MP10	X	0	48
82	MP10	Z	-1.51	48
83	MP10	X	0	48
84	MP10	Z	-1.51	48
85	M125	X	0	18
86	M125	Z	-4.85	18
87	M125	X	0	18

Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
88	M125	Z	-4.85	18
89	MP16	X	0	6
90	MP16	Z	-15.72	6
91	MP16	X	0	66
92	MP16	Z	-15.72	66
93	MP13	X	0	6
94	MP13	Z	-15.83	6
95	MP13	X	0	66
96	MP13	Z	-15.83	66
97	MP15	X	0	6
98	MP15	Z	-5.23	6
99	MP15	X	0	34
100	MP15	Z	-5.23	34
101	MP15	X	0	46
102	MP15	Z	-6.37	46
103	MP15	X	0	87
104	MP15	Z	-6.37	87
105	MP16	X	0	9
106	MP16	Z	-1.53	9
107	MP16	X	0	9
108	MP16	Z	-1.53	9
109	MP17	X	0	6
110	MP17	Z	-3.53	6
111	MP17	X	0	24
112	MP17	Z	-3.53	24
113	MP16	X	0	18
114	MP16	Z	-4.89	18
115	MP16	X	0	36
116	MP16	Z	-4.89	36
117	MP18	X	0	6
118	MP18	Z	-3.63	6
119	MP18	X	0	24
120	MP18	Z	-3.63	24
121	MP13	X	0	18
122	MP13	Z	-3.23	18
123	MP13	X	0	33
124	MP13	Z	-3.23	33
125	MP16	X	0	48
126	MP16	Z	-1.51	48
127	MP16	X	0	48
128	MP16	Z	-1.51	48
129	M127	X	0	24
130	M127	Z	-6.74	24
131	M127	X	0	24
132	M127	Z	-6.74	24

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-9.92	6
2	MP4	Z	-17.19	6
3	MP4	X	-9.92	66
4	MP4	Z	-17.19	66
5	MP1	X	-10.02	6
6	MP1	Z	-17.36	6
7	MP1	X	-10.02	66
8	MP1	Z	-17.36	66
9	MP3	X	-3.16	6
10	MP3	Z	-5.47	6
11	MP3	X	-3.16	34
12	MP3	Z	-5.47	34
13	MP3	X	-3.57	46
14	MP3	Z	-6.18	46
15	MP3	X	-3.57	87
16	MP3	Z	-6.18	87
17	MP4	X	-0.82	9
18	MP4	Z	-1.43	9
19	MP4	X	-0.82	9
20	MP4	Z	-1.43	9
21	MP5	X	-1.95	6
22	MP5	Z	-3.39	6
23	MP5	X	-1.95	24
24	MP5	Z	-3.39	24
25	MP4	X	-2.7	18
26	MP4	Z	-4.68	18
27	MP4	X	-2.7	36
28	MP4	Z	-4.68	36
29	MP6	X	-1.95	6
30	MP6	Z	-3.37	6
31	MP6	X	-1.95	24
32	MP6	Z	-3.37	24
33	MP1	X	-1.68	18
34	MP1	Z	-2.91	18
35	MP1	X	-1.68	33
36	MP1	Z	-2.91	33
37	MP4	X	-0.76	48
38	MP4	Z	-1.32	48
39	MP4	X	-0.76	48
40	MP4	Z	-1.32	48
41	M127	X	-2.43	18
42	M127	Z	-4.2	18
43	M127	X	-2.43	18
44	M127	Z	-4.2	18
45	MP10	X	-9.92	6
46	MP10	Z	-17.19	6

Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
47	MP10	X	-9.92	66
48	MP10	Z	-17.19	66
49	MP7	X	-10.02	6
50	MP7	Z	-17.36	6
51	MP7	X	-10.02	66
52	MP7	Z	-17.36	66
53	MP9	X	-3.16	6
54	MP9	Z	-5.47	6
55	MP9	X	-3.16	34
56	MP9	Z	-5.47	34
57	MP9	X	-3.57	46
58	MP9	Z	-6.18	46
59	MP9	X	-3.57	87
60	MP9	Z	-6.18	87
61	MP10	X	-0.82	9
62	MP10	Z	-1.43	9
63	MP10	X	-0.82	9
64	MP10	Z	-1.43	9
65	MP11	X	-1.95	6
66	MP11	Z	-3.39	6
67	MP11	X	-1.95	24
68	MP11	Z	-3.39	24
69	MP10	X	-2.7	18
70	MP10	Z	-4.68	18
71	MP10	X	-2.7	36
72	MP10	Z	-4.68	36
73	MP12	X	-1.95	6
74	MP12	Z	-3.37	6
75	MP12	X	-1.95	24
76	MP12	Z	-3.37	24
77	MP7	X	-1.68	18
78	MP7	Z	-2.91	18
79	MP7	X	-1.68	33
80	MP7	Z	-2.91	33
81	MP10	X	-0.76	48
82	MP10	Z	-1.32	48
83	MP10	X	-0.76	48
84	MP10	Z	-1.32	48
85	M125	X	-2.43	18
86	M125	Z	-4.2	18
87	M125	X	-2.43	18
88	M125	Z	-4.2	18
89	MP16	X	-6.83	6
90	MP16	Z	-11.83	6
91	MP16	X	-6.83	66
92	MP16	Z	-11.83	66

Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
93	MP13	X	-6.86	6
94	MP13	Z	-11.88	6
95	MP13	X	-6.86	66
96	MP13	Z	-11.88	66
97	MP15	X	-2.35	6
98	MP15	Z	-4.06	6
99	MP15	X	-2.35	34
100	MP15	Z	-4.06	34
101	MP15	X	-2.99	46
102	MP15	Z	-5.18	46
103	MP15	X	-2.99	87
104	MP15	Z	-5.18	87
105	MP16	X	-0.74	9
106	MP16	Z	-1.28	9
107	MP16	X	-0.74	9
108	MP16	Z	-1.28	9
109	MP17	X	-1.67	6
110	MP17	Z	-2.89	6
111	MP17	X	-1.67	24
112	MP17	Z	-2.89	24
113	MP16	X	-2.31	18
114	MP16	Z	-4.01	18
115	MP16	X	-2.31	36
116	MP16	Z	-4.01	36
117	MP18	X	-1.75	6
118	MP18	Z	-3.03	6
119	MP18	X	-1.75	24
120	MP18	Z	-3.03	24
121	MP13	X	-1.58	18
122	MP13	Z	-2.74	18
123	MP13	X	-1.58	33
124	MP13	Z	-2.74	33
125	MP16	X	-0.75	48
126	MP16	Z	-1.31	48
127	MP16	X	-0.75	48
128	MP16	Z	-1.31	48
129	M127	X	-3.04	24
130	M127	Z	-5.26	24
131	M127	X	-3.04	24
132	M127	Z	-5.26	24

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-13.62	6
2	MP4	Z	-7.86	6
3	MP4	X	-13.62	66

Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
4	MP4	Z	-7.86	66
5	MP1	X	-13.71	6
6	MP1	Z	-7.91	6
7	MP1	X	-13.71	66
8	MP1	Z	-7.91	66
9	MP3	X	-4.53	6
10	MP3	Z	-2.62	6
11	MP3	X	-4.53	34
12	MP3	Z	-2.62	34
13	MP3	X	-5.51	46
14	MP3	Z	-3.18	46
15	MP3	X	-5.51	87
16	MP3	Z	-3.18	87
17	MP4	X	-1.33	9
18	MP4	Z	-0.77	9
19	MP4	X	-1.33	9
20	MP4	Z	-0.77	9
21	MP5	X	-3.06	6
22	MP5	Z	-1.76	6
23	MP5	X	-3.06	24
24	MP5	Z	-1.76	24
25	MP4	X	-4.23	18
26	MP4	Z	-2.44	18
27	MP4	X	-4.23	36
28	MP4	Z	-2.44	36
29	MP6	X	-3.14	6
30	MP6	Z	-1.81	6
31	MP6	X	-3.14	24
32	MP6	Z	-1.81	24
33	MP1	X	-2.8	18
34	MP1	Z	-1.61	18
35	MP1	X	-2.8	33
36	MP1	Z	-1.61	33
37	MP4	X	-1.31	48
38	MP4	Z	-0.76	48
39	MP4	X	-1.31	48
40	MP4	Z	-0.76	48
41	M127	X	-4.2	18
42	M127	Z	-2.43	18
43	M127	X	-4.2	18
44	M127	Z	-2.43	18
45	MP10	X	-18.98	6
46	MP10	Z	-10.96	6
47	MP10	X	-18.98	66
48	MP10	Z	-10.96	66
49	MP7	X	-19.19	6

Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
50	MP7	Z	-11.08	6
51	MP7	X	-19.19	66
52	MP7	Z	-11.08	66
53	MP9	X	-5.94	6
54	MP9	Z	-3.43	6
55	MP9	X	-5.94	34
56	MP9	Z	-3.43	34
57	MP9	X	-6.51	46
58	MP9	Z	-3.76	46
59	MP9	X	-6.51	87
60	MP9	Z	-3.76	87
61	MP10	X	-1.48	9
62	MP10	Z	-0.85	9
63	MP10	X	-1.48	9
64	MP10	Z	-0.85	9
65	MP11	X	-3.55	6
66	MP11	Z	-2.05	6
67	MP11	X	-3.55	24
68	MP11	Z	-2.05	24
69	MP10	X	-4.9	18
70	MP10	Z	-2.83	18
71	MP10	X	-4.9	36
72	MP10	Z	-2.83	36
73	MP12	X	-3.49	6
74	MP12	Z	-2.02	6
75	MP12	X	-3.49	24
76	MP12	Z	-2.02	24
77	MP7	X	-2.97	18
78	MP7	Z	-1.72	18
79	MP7	X	-2.97	33
80	MP7	Z	-1.72	33
81	MP10	X	-1.33	48
82	MP10	Z	-0.77	48
83	MP10	X	-1.33	48
84	MP10	Z	-0.77	48
85	M125	X	-4.2	18
86	M125	Z	-2.43	18
87	M125	X	-4.2	18
88	M125	Z	-2.43	18
89	MP16	X	-13.62	6
90	MP16	Z	-7.86	6
91	MP16	X	-13.62	66
92	MP16	Z	-7.86	66
93	MP13	X	-13.71	6
94	MP13	Z	-7.91	6
95	MP13	X	-13.71	66

Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
96	MP13	Z	-7.91	66
97	MP15	X	-4.53	6
98	MP15	Z	-2.62	6
99	MP15	X	-4.53	34
100	MP15	Z	-2.62	34
101	MP15	X	-5.51	46
102	MP15	Z	-3.18	46
103	MP15	X	-5.51	87
104	MP15	Z	-3.18	87
105	MP16	X	-1.33	9
106	MP16	Z	-0.77	9
107	MP16	X	-1.33	9
108	MP16	Z	-0.77	9
109	MP17	X	-3.06	6
110	MP17	Z	-1.76	6
111	MP17	X	-3.06	24
112	MP17	Z	-1.76	24
113	MP16	X	-4.23	18
114	MP16	Z	-2.44	18
115	MP16	X	-4.23	36
116	MP16	Z	-2.44	36
117	MP18	X	-3.14	6
118	MP18	Z	-1.81	6
119	MP18	X	-3.14	24
120	MP18	Z	-1.81	24
121	MP13	X	-2.8	18
122	MP13	Z	-1.61	18
123	MP13	X	-2.8	33
124	MP13	Z	-1.61	33
125	MP16	X	-1.31	48
126	MP16	Z	-0.76	48
127	MP16	X	-1.31	48
128	MP16	Z	-0.76	48
129	M127	X	-5.84	24
130	M127	Z	-3.37	24
131	M127	X	-5.84	24
132	M127	Z	-3.37	24

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-13.66	6
2	MP4	Z	0	6
3	MP4	X	-13.66	66
4	MP4	Z	0	66
5	MP1	X	-13.72	6
6	MP1	Z	0	6

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
7	MP1	X	-13.72	66
8	MP1	Z	0	66
9	MP3	X	-4.69	6
10	MP3	Z	0	6
11	MP3	X	-4.69	34
12	MP3	Z	0	34
13	MP3	X	-5.98	46
14	MP3	Z	0	46
15	MP3	X	-5.98	87
16	MP3	Z	0	87
17	MP4	X	-1.47	9
18	MP4	Z	0	9
19	MP4	X	-1.47	9
20	MP4	Z	0	9
21	MP5	X	-3.34	6
22	MP5	Z	0	6
23	MP5	X	-3.34	24
24	MP5	Z	0	24
25	MP4	X	-4.63	18
26	MP4	Z	0	18
27	MP4	X	-4.63	36
28	MP4	Z	0	36
29	MP6	X	-3.49	6
30	MP6	Z	0	6
31	MP6	X	-3.49	24
32	MP6	Z	0	24
33	MP1	X	-3.16	18
34	MP1	Z	0	18
35	MP1	X	-3.16	33
36	MP1	Z	0	33
37	MP4	X	-1.51	48
38	MP4	Z	0	48
39	MP4	X	-1.51	48
40	MP4	Z	0	48
41	M127	X	-4.85	18
42	M127	Z	0	18
43	M127	X	-4.85	18
44	M127	Z	0	18
45	MP10	X	-19.85	6
46	MP10	Z	0	6
47	MP10	X	-19.85	66
48	MP10	Z	0	66
49	MP7	X	-20.05	6
50	MP7	Z	0	6
51	MP7	X	-20.05	66
52	MP7	Z	0	66

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
53	MP9	X	-6.32	6
54	MP9	Z	0	6
55	MP9	X	-6.32	34
56	MP9	Z	0	34
57	MP9	X	-7.14	46
58	MP9	Z	0	46
59	MP9	X	-7.14	87
60	MP9	Z	0	87
61	MP10	X	-1.65	9
62	MP10	Z	0	9
63	MP10	X	-1.65	9
64	MP10	Z	0	9
65	MP11	X	-3.91	6
66	MP11	Z	0	6
67	MP11	X	-3.91	24
68	MP11	Z	0	24
69	MP10	X	-5.4	18
70	MP10	Z	0	18
71	MP10	X	-5.4	36
72	MP10	Z	0	36
73	MP12	X	-3.9	6
74	MP12	Z	0	6
75	MP12	X	-3.9	24
76	MP12	Z	0	24
77	MP7	X	-3.36	18
78	MP7	Z	0	18
79	MP7	X	-3.36	33
80	MP7	Z	0	33
81	MP10	X	-1.53	48
82	MP10	Z	0	48
83	MP10	X	-1.53	48
84	MP10	Z	0	48
85	M125	X	-4.85	18
86	M125	Z	0	18
87	M125	X	-4.85	18
88	M125	Z	0	18
89	MP16	X	-19.85	6
90	MP16	Z	0	6
91	MP16	X	-19.85	66
92	MP16	Z	0	66
93	MP13	X	-20.05	6
94	MP13	Z	0	6
95	MP13	X	-20.05	66
96	MP13	Z	0	66
97	MP15	X	-6.32	6
98	MP15	Z	0	6

Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
99	MP15	X	-6.32	34
100	MP15	Z	0	34
101	MP15	X	-7.14	46
102	MP15	Z	0	46
103	MP15	X	-7.14	87
104	MP15	Z	0	87
105	MP16	X	-1.65	9
106	MP16	Z	0	9
107	MP16	X	-1.65	9
108	MP16	Z	0	9
109	MP17	X	-3.91	6
110	MP17	Z	0	6
111	MP17	X	-3.91	24
112	MP17	Z	0	24
113	MP16	X	-5.4	18
114	MP16	Z	0	18
115	MP16	X	-5.4	36
116	MP16	Z	0	36
117	MP18	X	-3.9	6
118	MP18	Z	0	6
119	MP18	X	-3.9	24
120	MP18	Z	0	24
121	MP13	X	-3.36	18
122	MP13	Z	0	18
123	MP13	X	-3.36	33
124	MP13	Z	0	33
125	MP16	X	-1.53	48
126	MP16	Z	0	48
127	MP16	X	-1.53	48
128	MP16	Z	0	48
129	M127	X	-8.06	24
130	M127	Z	0	24
131	M127	X	-8.06	24
132	M127	Z	0	24

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-13.62	6
2	MP4	Z	7.86	6
3	MP4	X	-13.62	66
4	MP4	Z	7.86	66
5	MP1	X	-13.71	6
6	MP1	Z	7.91	6
7	MP1	X	-13.71	66
8	MP1	Z	7.91	66
9	MP3	X	-4.53	6

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
10	MP3	Z	2.62	6
11	MP3	X	-4.53	34
12	MP3	Z	2.62	34
13	MP3	X	-5.51	46
14	MP3	Z	3.18	46
15	MP3	X	-5.51	87
16	MP3	Z	3.18	87
17	MP4	X	-1.33	9
18	MP4	Z	0.77	9
19	MP4	X	-1.33	9
20	MP4	Z	0.77	9
21	MP5	X	-3.06	6
22	MP5	Z	1.76	6
23	MP5	X	-3.06	24
24	MP5	Z	1.76	24
25	MP4	X	-4.23	18
26	MP4	Z	2.44	18
27	MP4	X	-4.23	36
28	MP4	Z	2.44	36
29	MP6	X	-3.14	6
30	MP6	Z	1.81	6
31	MP6	X	-3.14	24
32	MP6	Z	1.81	24
33	MP1	X	-2.8	18
34	MP1	Z	1.61	18
35	MP1	X	-2.8	33
36	MP1	Z	1.61	33
37	MP4	X	-1.31	48
38	MP4	Z	0.76	48
39	MP4	X	-1.31	48
40	MP4	Z	0.76	48
41	M127	X	-4.2	18
42	M127	Z	2.43	18
43	M127	X	-4.2	18
44	M127	Z	2.43	18
45	MP10	X	-13.62	6
46	MP10	Z	7.86	6
47	MP10	X	-13.62	66
48	MP10	Z	7.86	66
49	MP7	X	-13.71	6
50	MP7	Z	7.91	6
51	MP7	X	-13.71	66
52	MP7	Z	7.91	66
53	MP9	X	-4.53	6
54	MP9	Z	2.62	6
55	MP9	X	-4.53	34

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
56	MP9	Z	2.62	34
57	MP9	X	-5.51	46
58	MP9	Z	3.18	46
59	MP9	X	-5.51	87
60	MP9	Z	3.18	87
61	MP10	X	-1.33	9
62	MP10	Z	0.77	9
63	MP10	X	-1.33	9
64	MP10	Z	0.77	9
65	MP11	X	-3.06	6
66	MP11	Z	1.76	6
67	MP11	X	-3.06	24
68	MP11	Z	1.76	24
69	MP10	X	-4.23	18
70	MP10	Z	2.44	18
71	MP10	X	-4.23	36
72	MP10	Z	2.44	36
73	MP12	X	-3.14	6
74	MP12	Z	1.81	6
75	MP12	X	-3.14	24
76	MP12	Z	1.81	24
77	MP7	X	-2.8	18
78	MP7	Z	1.61	18
79	MP7	X	-2.8	33
80	MP7	Z	1.61	33
81	MP10	X	-1.31	48
82	MP10	Z	0.76	48
83	MP10	X	-1.31	48
84	MP10	Z	0.76	48
85	M125	X	-4.2	18
86	M125	Z	2.43	18
87	M125	X	-4.2	18
88	M125	Z	2.43	18
89	MP16	X	-18.98	6
90	MP16	Z	10.96	6
91	MP16	X	-18.98	66
92	MP16	Z	10.96	66
93	MP13	X	-19.19	6
94	MP13	Z	11.08	6
95	MP13	X	-19.19	66
96	MP13	Z	11.08	66
97	MP15	X	-5.94	6
98	MP15	Z	3.43	6
99	MP15	X	-5.94	34
100	MP15	Z	3.43	34
101	MP15	X	-6.51	46

Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
102	MP15	Z	3.76	46
103	MP15	X	-6.51	87
104	MP15	Z	3.76	87
105	MP16	X	-1.48	9
106	MP16	Z	0.85	9
107	MP16	X	-1.48	9
108	MP16	Z	0.85	9
109	MP17	X	-3.55	6
110	MP17	Z	2.05	6
111	MP17	X	-3.55	24
112	MP17	Z	2.05	24
113	MP16	X	-4.9	18
114	MP16	Z	2.83	18
115	MP16	X	-4.9	36
116	MP16	Z	2.83	36
117	MP18	X	-3.49	6
118	MP18	Z	2.02	6
119	MP18	X	-3.49	24
120	MP18	Z	2.02	24
121	MP13	X	-2.97	18
122	MP13	Z	1.72	18
123	MP13	X	-2.97	33
124	MP13	Z	1.72	33
125	MP16	X	-1.33	48
126	MP16	Z	0.77	48
127	MP16	X	-1.33	48
128	MP16	Z	0.77	48
129	M127	X	-7.55	24
130	M127	Z	4.36	24
131	M127	X	-7.55	24
132	M127	Z	4.36	24

Member Point Loads (BLC 22 : Ice Wind Load AZI 150)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-9.92	6
2	MP4	Z	17.19	6
3	MP4	X	-9.92	66
4	MP4	Z	17.19	66
5	MP1	X	-10.02	6
6	MP1	Z	17.36	6
7	MP1	X	-10.02	66
8	MP1	Z	17.36	66
9	MP3	X	-3.16	6
10	MP3	Z	5.47	6
11	MP3	X	-3.16	34
12	MP3	Z	5.47	34

Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
13	MP3	X	-3.57	46
14	MP3	Z	6.18	46
15	MP3	X	-3.57	87
16	MP3	Z	6.18	87
17	MP4	X	-0.82	9
18	MP4	Z	1.43	9
19	MP4	X	-0.82	9
20	MP4	Z	1.43	9
21	MP5	X	-1.95	6
22	MP5	Z	3.39	6
23	MP5	X	-1.95	24
24	MP5	Z	3.39	24
25	MP4	X	-2.7	18
26	MP4	Z	4.68	18
27	MP4	X	-2.7	36
28	MP4	Z	4.68	36
29	MP6	X	-1.95	6
30	MP6	Z	3.37	6
31	MP6	X	-1.95	24
32	MP6	Z	3.37	24
33	MP1	X	-1.68	18
34	MP1	Z	2.91	18
35	MP1	X	-1.68	33
36	MP1	Z	2.91	33
37	MP4	X	-0.76	48
38	MP4	Z	1.32	48
39	MP4	X	-0.76	48
40	MP4	Z	1.32	48
41	M127	X	-2.43	18
42	M127	Z	4.2	18
43	M127	X	-2.43	18
44	M127	Z	4.2	18
45	MP10	X	-6.83	6
46	MP10	Z	11.83	6
47	MP10	X	-6.83	66
48	MP10	Z	11.83	66
49	MP7	X	-6.86	6
50	MP7	Z	11.88	6
51	MP7	X	-6.86	66
52	MP7	Z	11.88	66
53	MP9	X	-2.35	6
54	MP9	Z	4.06	6
55	MP9	X	-2.35	34
56	MP9	Z	4.06	34
57	MP9	X	-2.99	46
58	MP9	Z	5.18	46

Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
59	MP9	X	-2.99	87
60	MP9	Z	5.18	87
61	MP10	X	-0.74	9
62	MP10	Z	1.28	9
63	MP10	X	-0.74	9
64	MP10	Z	1.28	9
65	MP11	X	-1.67	6
66	MP11	Z	2.89	6
67	MP11	X	-1.67	24
68	MP11	Z	2.89	24
69	MP10	X	-2.31	18
70	MP10	Z	4.01	18
71	MP10	X	-2.31	36
72	MP10	Z	4.01	36
73	MP12	X	-1.75	6
74	MP12	Z	3.03	6
75	MP12	X	-1.75	24
76	MP12	Z	3.03	24
77	MP7	X	-1.58	18
78	MP7	Z	2.74	18
79	MP7	X	-1.58	33
80	MP7	Z	2.74	33
81	MP10	X	-0.75	48
82	MP10	Z	1.31	48
83	MP10	X	-0.75	48
84	MP10	Z	1.31	48
85	M125	X	-2.43	18
86	M125	Z	4.2	18
87	M125	X	-2.43	18
88	M125	Z	4.2	18
89	MP16	X	-9.92	6
90	MP16	Z	17.19	6
91	MP16	X	-9.92	66
92	MP16	Z	17.19	66
93	MP13	X	-10.02	6
94	MP13	Z	17.36	6
95	MP13	X	-10.02	66
96	MP13	Z	17.36	66
97	MP15	X	-3.16	6
98	MP15	Z	5.47	6
99	MP15	X	-3.16	34
100	MP15	Z	5.47	34
101	MP15	X	-3.57	46
102	MP15	Z	6.18	46
103	MP15	X	-3.57	87
104	MP15	Z	6.18	87

Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
105	MP16	X	-0.82	9
106	MP16	Z	1.43	9
107	MP16	X	-0.82	9
108	MP16	Z	1.43	9
109	MP17	X	-1.95	6
110	MP17	Z	3.39	6
111	MP17	X	-1.95	24
112	MP17	Z	3.39	24
113	MP16	X	-2.7	18
114	MP16	Z	4.68	18
115	MP16	X	-2.7	36
116	MP16	Z	4.68	36
117	MP18	X	-1.95	6
118	MP18	Z	3.37	6
119	MP18	X	-1.95	24
120	MP18	Z	3.37	24
121	MP13	X	-1.68	18
122	MP13	Z	2.91	18
123	MP13	X	-1.68	33
124	MP13	Z	2.91	33
125	MP16	X	-0.76	48
126	MP16	Z	1.32	48
127	MP16	X	-0.76	48
128	MP16	Z	1.32	48
129	M127	X	-4.03	24
130	M127	Z	6.98	24
131	M127	X	-4.03	24
132	M127	Z	6.98	24

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	0	6
2	MP4	Z	21.91	6
3	MP4	X	0	66
4	MP4	Z	21.91	66
5	MP1	X	0	6
6	MP1	Z	22.16	6
7	MP1	X	0	66
8	MP1	Z	22.16	66
9	MP3	X	0	6
10	MP3	Z	6.86	6
11	MP3	X	0	34
12	MP3	Z	6.86	34
13	MP3	X	0	46
14	MP3	Z	7.52	46
15	MP3	X	0	87

Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
16	MP3	Z	7.52	87
17	MP4	X	0	9
18	MP4	Z	1.7	9
19	MP4	X	0	9
20	MP4	Z	1.7	9
21	MP5	X	0	6
22	MP5	Z	4.1	6
23	MP5	X	0	24
24	MP5	Z	4.1	24
25	MP4	X	0	18
26	MP4	Z	5.66	18
27	MP4	X	0	36
28	MP4	Z	5.66	36
29	MP6	X	0	6
30	MP6	Z	4.03	6
31	MP6	X	0	24
32	MP6	Z	4.03	24
33	MP1	X	0	18
34	MP1	Z	3.43	18
35	MP1	X	0	33
36	MP1	Z	3.43	33
37	MP4	X	0	48
38	MP4	Z	1.53	48
39	MP4	X	0	48
40	MP4	Z	1.53	48
41	M127	X	0	18
42	M127	Z	4.85	18
43	M127	X	0	18
44	M127	Z	4.85	18
45	MP10	X	0	6
46	MP10	Z	15.72	6
47	MP10	X	0	66
48	MP10	Z	15.72	66
49	MP7	X	0	6
50	MP7	Z	15.83	6
51	MP7	X	0	66
52	MP7	Z	15.83	66
53	MP9	X	0	6
54	MP9	Z	5.23	6
55	MP9	X	0	34
56	MP9	Z	5.23	34
57	MP9	X	0	46
58	MP9	Z	6.37	46
59	MP9	X	0	87
60	MP9	Z	6.37	87
61	MP10	X	0	9

Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
62	MP10	Z	1.53	9
63	MP10	X	0	9
64	MP10	Z	1.53	9
65	MP11	X	0	6
66	MP11	Z	3.53	6
67	MP11	X	0	24
68	MP11	Z	3.53	24
69	MP10	X	0	18
70	MP10	Z	4.89	18
71	MP10	X	0	36
72	MP10	Z	4.89	36
73	MP12	X	0	6
74	MP12	Z	3.63	6
75	MP12	X	0	24
76	MP12	Z	3.63	24
77	MP7	X	0	18
78	MP7	Z	3.23	18
79	MP7	X	0	33
80	MP7	Z	3.23	33
81	MP10	X	0	48
82	MP10	Z	1.51	48
83	MP10	X	0	48
84	MP10	Z	1.51	48
85	M125	X	0	18
86	M125	Z	4.85	18
87	M125	X	0	18
88	M125	Z	4.85	18
89	MP16	X	0	6
90	MP16	Z	15.72	6
91	MP16	X	0	66
92	MP16	Z	15.72	66
93	MP13	X	0	6
94	MP13	Z	15.83	6
95	MP13	X	0	66
96	MP13	Z	15.83	66
97	MP15	X	0	6
98	MP15	Z	5.23	6
99	MP15	X	0	34
100	MP15	Z	5.23	34
101	MP15	X	0	46
102	MP15	Z	6.37	46
103	MP15	X	0	87
104	MP15	Z	6.37	87
105	MP16	X	0	9
106	MP16	Z	1.53	9
107	MP16	X	0	9

Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
108	MP16	Z	1.53	9
109	MP17	X	0	6
110	MP17	Z	3.53	6
111	MP17	X	0	24
112	MP17	Z	3.53	24
113	MP16	X	0	18
114	MP16	Z	4.89	18
115	MP16	X	0	36
116	MP16	Z	4.89	36
117	MP18	X	0	6
118	MP18	Z	3.63	6
119	MP18	X	0	24
120	MP18	Z	3.63	24
121	MP13	X	0	18
122	MP13	Z	3.23	18
123	MP13	X	0	33
124	MP13	Z	3.23	33
125	MP16	X	0	48
126	MP16	Z	1.51	48
127	MP16	X	0	48
128	MP16	Z	1.51	48
129	M127	X	0	24
130	M127	Z	6.74	24
131	M127	X	0	24
132	M127	Z	6.74	24

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	9.92	6
2	MP4	Z	17.19	6
3	MP4	X	9.92	66
4	MP4	Z	17.19	66
5	MP1	X	10.02	6
6	MP1	Z	17.36	6
7	MP1	X	10.02	66
8	MP1	Z	17.36	66
9	MP3	X	3.16	6
10	MP3	Z	5.47	6
11	MP3	X	3.16	34
12	MP3	Z	5.47	34
13	MP3	X	3.57	46
14	MP3	Z	6.18	46
15	MP3	X	3.57	87
16	MP3	Z	6.18	87
17	MP4	X	0.82	9
18	MP4	Z	1.43	9

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
19	MP4	X	0.82	9
20	MP4	Z	1.43	9
21	MP5	X	1.95	6
22	MP5	Z	3.39	6
23	MP5	X	1.95	24
24	MP5	Z	3.39	24
25	MP4	X	2.7	18
26	MP4	Z	4.68	18
27	MP4	X	2.7	36
28	MP4	Z	4.68	36
29	MP6	X	1.95	6
30	MP6	Z	3.37	6
31	MP6	X	1.95	24
32	MP6	Z	3.37	24
33	MP1	X	1.68	18
34	MP1	Z	2.91	18
35	MP1	X	1.68	33
36	MP1	Z	2.91	33
37	MP4	X	0.76	48
38	MP4	Z	1.32	48
39	MP4	X	0.76	48
40	MP4	Z	1.32	48
41	M127	X	2.43	18
42	M127	Z	4.2	18
43	M127	X	2.43	18
44	M127	Z	4.2	18
45	MP10	X	9.92	6
46	MP10	Z	17.19	6
47	MP10	X	9.92	66
48	MP10	Z	17.19	66
49	MP7	X	10.02	6
50	MP7	Z	17.36	6
51	MP7	X	10.02	66
52	MP7	Z	17.36	66
53	MP9	X	3.16	6
54	MP9	Z	5.47	6
55	MP9	X	3.16	34
56	MP9	Z	5.47	34
57	MP9	X	3.57	46
58	MP9	Z	6.18	46
59	MP9	X	3.57	87
60	MP9	Z	6.18	87
61	MP10	X	0.82	9
62	MP10	Z	1.43	9
63	MP10	X	0.82	9
64	MP10	Z	1.43	9

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
65	MP11	X	1.95	6
66	MP11	Z	3.39	6
67	MP11	X	1.95	24
68	MP11	Z	3.39	24
69	MP10	X	2.7	18
70	MP10	Z	4.68	18
71	MP10	X	2.7	36
72	MP10	Z	4.68	36
73	MP12	X	1.95	6
74	MP12	Z	3.37	6
75	MP12	X	1.95	24
76	MP12	Z	3.37	24
77	MP7	X	1.68	18
78	MP7	Z	2.91	18
79	MP7	X	1.68	33
80	MP7	Z	2.91	33
81	MP10	X	0.76	48
82	MP10	Z	1.32	48
83	MP10	X	0.76	48
84	MP10	Z	1.32	48
85	M125	X	2.43	18
86	M125	Z	4.2	18
87	M125	X	2.43	18
88	M125	Z	4.2	18
89	MP16	X	6.83	6
90	MP16	Z	11.83	6
91	MP16	X	6.83	66
92	MP16	Z	11.83	66
93	MP13	X	6.86	6
94	MP13	Z	11.88	6
95	MP13	X	6.86	66
96	MP13	Z	11.88	66
97	MP15	X	2.35	6
98	MP15	Z	4.06	6
99	MP15	X	2.35	34
100	MP15	Z	4.06	34
101	MP15	X	2.99	46
102	MP15	Z	5.18	46
103	MP15	X	2.99	87
104	MP15	Z	5.18	87
105	MP16	X	0.74	9
106	MP16	Z	1.28	9
107	MP16	X	0.74	9
108	MP16	Z	1.28	9
109	MP17	X	1.67	6
110	MP17	Z	2.89	6

Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
111	MP17	X	1.67	24
112	MP17	Z	2.89	24
113	MP16	X	2.31	18
114	MP16	Z	4.01	18
115	MP16	X	2.31	36
116	MP16	Z	4.01	36
117	MP18	X	1.75	6
118	MP18	Z	3.03	6
119	MP18	X	1.75	24
120	MP18	Z	3.03	24
121	MP13	X	1.58	18
122	MP13	Z	2.74	18
123	MP13	X	1.58	33
124	MP13	Z	2.74	33
125	MP16	X	0.75	48
126	MP16	Z	1.31	48
127	MP16	X	0.75	48
128	MP16	Z	1.31	48
129	M127	X	3.04	24
130	M127	Z	5.26	24
131	M127	X	3.04	24
132	M127	Z	5.26	24

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	13.62	6
2	MP4	Z	7.86	6
3	MP4	X	13.62	66
4	MP4	Z	7.86	66
5	MP1	X	13.71	6
6	MP1	Z	7.91	6
7	MP1	X	13.71	66
8	MP1	Z	7.91	66
9	MP3	X	4.53	6
10	MP3	Z	2.62	6
11	MP3	X	4.53	34
12	MP3	Z	2.62	34
13	MP3	X	5.51	46
14	MP3	Z	3.18	46
15	MP3	X	5.51	87
16	MP3	Z	3.18	87
17	MP4	X	1.33	9
18	MP4	Z	0.77	9
19	MP4	X	1.33	9
20	MP4	Z	0.77	9
21	MP5	X	3.06	6

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
22	MP5	Z	1.76	6
23	MP5	X	3.06	24
24	MP5	Z	1.76	24
25	MP4	X	4.23	18
26	MP4	Z	2.44	18
27	MP4	X	4.23	36
28	MP4	Z	2.44	36
29	MP6	X	3.14	6
30	MP6	Z	1.81	6
31	MP6	X	3.14	24
32	MP6	Z	1.81	24
33	MP1	X	2.8	18
34	MP1	Z	1.61	18
35	MP1	X	2.8	33
36	MP1	Z	1.61	33
37	MP4	X	1.31	48
38	MP4	Z	0.76	48
39	MP4	X	1.31	48
40	MP4	Z	0.76	48
41	M127	X	4.2	18
42	M127	Z	2.43	18
43	M127	X	4.2	18
44	M127	Z	2.43	18
45	MP10	X	18.98	6
46	MP10	Z	10.96	6
47	MP10	X	18.98	66
48	MP10	Z	10.96	66
49	MP7	X	19.19	6
50	MP7	Z	11.08	6
51	MP7	X	19.19	66
52	MP7	Z	11.08	66
53	MP9	X	5.94	6
54	MP9	Z	3.43	6
55	MP9	X	5.94	34
56	MP9	Z	3.43	34
57	MP9	X	6.51	46
58	MP9	Z	3.76	46
59	MP9	X	6.51	87
60	MP9	Z	3.76	87
61	MP10	X	1.48	9
62	MP10	Z	0.85	9
63	MP10	X	1.48	9
64	MP10	Z	0.85	9
65	MP11	X	3.55	6
66	MP11	Z	2.05	6
67	MP11	X	3.55	24

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
68	MP11	Z	2.05	24
69	MP10	X	4.9	18
70	MP10	Z	2.83	18
71	MP10	X	4.9	36
72	MP10	Z	2.83	36
73	MP12	X	3.49	6
74	MP12	Z	2.02	6
75	MP12	X	3.49	24
76	MP12	Z	2.02	24
77	MP7	X	2.97	18
78	MP7	Z	1.72	18
79	MP7	X	2.97	33
80	MP7	Z	1.72	33
81	MP10	X	1.33	48
82	MP10	Z	0.77	48
83	MP10	X	1.33	48
84	MP10	Z	0.77	48
85	M125	X	4.2	18
86	M125	Z	2.43	18
87	M125	X	4.2	18
88	M125	Z	2.43	18
89	MP16	X	13.62	6
90	MP16	Z	7.86	6
91	MP16	X	13.62	66
92	MP16	Z	7.86	66
93	MP13	X	13.71	6
94	MP13	Z	7.91	6
95	MP13	X	13.71	66
96	MP13	Z	7.91	66
97	MP15	X	4.53	6
98	MP15	Z	2.62	6
99	MP15	X	4.53	34
100	MP15	Z	2.62	34
101	MP15	X	5.51	46
102	MP15	Z	3.18	46
103	MP15	X	5.51	87
104	MP15	Z	3.18	87
105	MP16	X	1.33	9
106	MP16	Z	0.77	9
107	MP16	X	1.33	9
108	MP16	Z	0.77	9
109	MP17	X	3.06	6
110	MP17	Z	1.76	6
111	MP17	X	3.06	24
112	MP17	Z	1.76	24
113	MP16	X	4.23	18

Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
114	MP16	Z	2.44	18
115	MP16	X	4.23	36
116	MP16	Z	2.44	36
117	MP18	X	3.14	6
118	MP18	Z	1.81	6
119	MP18	X	3.14	24
120	MP18	Z	1.81	24
121	MP13	X	2.8	18
122	MP13	Z	1.61	18
123	MP13	X	2.8	33
124	MP13	Z	1.61	33
125	MP16	X	1.31	48
126	MP16	Z	0.76	48
127	MP16	X	1.31	48
128	MP16	Z	0.76	48
129	M127	X	5.84	24
130	M127	Z	3.37	24
131	M127	X	5.84	24
132	M127	Z	3.37	24

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	13.66	6
2	MP4	Z	0	6
3	MP4	X	13.66	66
4	MP4	Z	0	66
5	MP1	X	13.72	6
6	MP1	Z	0	6
7	MP1	X	13.72	66
8	MP1	Z	0	66
9	MP3	X	4.69	6
10	MP3	Z	0	6
11	MP3	X	4.69	34
12	MP3	Z	0	34
13	MP3	X	5.98	46
14	MP3	Z	0	46
15	MP3	X	5.98	87
16	MP3	Z	0	87
17	MP4	X	1.47	9
18	MP4	Z	0	9
19	MP4	X	1.47	9
20	MP4	Z	0	9
21	MP5	X	3.34	6
22	MP5	Z	0	6
23	MP5	X	3.34	24
24	MP5	Z	0	24

Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
25	MP4	X	4.63	18
26	MP4	Z	0	18
27	MP4	X	4.63	36
28	MP4	Z	0	36
29	MP6	X	3.49	6
30	MP6	Z	0	6
31	MP6	X	3.49	24
32	MP6	Z	0	24
33	MP1	X	3.16	18
34	MP1	Z	0	18
35	MP1	X	3.16	33
36	MP1	Z	0	33
37	MP4	X	1.51	48
38	MP4	Z	0	48
39	MP4	X	1.51	48
40	MP4	Z	0	48
41	M127	X	4.85	18
42	M127	Z	0	18
43	M127	X	4.85	18
44	M127	Z	0	18
45	MP10	X	19.85	6
46	MP10	Z	0	6
47	MP10	X	19.85	66
48	MP10	Z	0	66
49	MP7	X	20.05	6
50	MP7	Z	0	6
51	MP7	X	20.05	66
52	MP7	Z	0	66
53	MP9	X	6.32	6
54	MP9	Z	0	6
55	MP9	X	6.32	34
56	MP9	Z	0	34
57	MP9	X	7.14	46
58	MP9	Z	0	46
59	MP9	X	7.14	87
60	MP9	Z	0	87
61	MP10	X	1.65	9
62	MP10	Z	0	9
63	MP10	X	1.65	9
64	MP10	Z	0	9
65	MP11	X	3.91	6
66	MP11	Z	0	6
67	MP11	X	3.91	24
68	MP11	Z	0	24
69	MP10	X	5.4	18
70	MP10	Z	0	18

Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
71	MP10	X	5.4	36
72	MP10	Z	0	36
73	MP12	X	3.9	6
74	MP12	Z	0	6
75	MP12	X	3.9	24
76	MP12	Z	0	24
77	MP7	X	3.36	18
78	MP7	Z	0	18
79	MP7	X	3.36	33
80	MP7	Z	0	33
81	MP10	X	1.53	48
82	MP10	Z	0	48
83	MP10	X	1.53	48
84	MP10	Z	0	48
85	M125	X	4.85	18
86	M125	Z	0	18
87	M125	X	4.85	18
88	M125	Z	0	18
89	MP16	X	19.85	6
90	MP16	Z	0	6
91	MP16	X	19.85	66
92	MP16	Z	0	66
93	MP13	X	20.05	6
94	MP13	Z	0	6
95	MP13	X	20.05	66
96	MP13	Z	0	66
97	MP15	X	6.32	6
98	MP15	Z	0	6
99	MP15	X	6.32	34
100	MP15	Z	0	34
101	MP15	X	7.14	46
102	MP15	Z	0	46
103	MP15	X	7.14	87
104	MP15	Z	0	87
105	MP16	X	1.65	9
106	MP16	Z	0	9
107	MP16	X	1.65	9
108	MP16	Z	0	9
109	MP17	X	3.91	6
110	MP17	Z	0	6
111	MP17	X	3.91	24
112	MP17	Z	0	24
113	MP16	X	5.4	18
114	MP16	Z	0	18
115	MP16	X	5.4	36
116	MP16	Z	0	36

Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
117	MP18	X	3.9	6
118	MP18	Z	0	6
119	MP18	X	3.9	24
120	MP18	Z	0	24
121	MP13	X	3.36	18
122	MP13	Z	0	18
123	MP13	X	3.36	33
124	MP13	Z	0	33
125	MP16	X	1.53	48
126	MP16	Z	0	48
127	MP16	X	1.53	48
128	MP16	Z	0	48
129	M127	X	8.06	24
130	M127	Z	0	24
131	M127	X	8.06	24
132	M127	Z	0	24

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	13.62	6
2	MP4	Z	-7.86	6
3	MP4	X	13.62	66
4	MP4	Z	-7.86	66
5	MP1	X	13.71	6
6	MP1	Z	-7.91	6
7	MP1	X	13.71	66
8	MP1	Z	-7.91	66
9	MP3	X	4.53	6
10	MP3	Z	-2.62	6
11	MP3	X	4.53	34
12	MP3	Z	-2.62	34
13	MP3	X	5.51	46
14	MP3	Z	-3.18	46
15	MP3	X	5.51	87
16	MP3	Z	-3.18	87
17	MP4	X	1.33	9
18	MP4	Z	-0.77	9
19	MP4	X	1.33	9
20	MP4	Z	-0.77	9
21	MP5	X	3.06	6
22	MP5	Z	-1.76	6
23	MP5	X	3.06	24
24	MP5	Z	-1.76	24
25	MP4	X	4.23	18
26	MP4	Z	-2.44	18
27	MP4	X	4.23	36

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
28	MP4	Z	-2.44	36
29	MP6	X	3.14	6
30	MP6	Z	-1.81	6
31	MP6	X	3.14	24
32	MP6	Z	-1.81	24
33	MP1	X	2.8	18
34	MP1	Z	-1.61	18
35	MP1	X	2.8	33
36	MP1	Z	-1.61	33
37	MP4	X	1.31	48
38	MP4	Z	-0.76	48
39	MP4	X	1.31	48
40	MP4	Z	-0.76	48
41	M127	X	4.2	18
42	M127	Z	-2.43	18
43	M127	X	4.2	18
44	M127	Z	-2.43	18
45	MP10	X	13.62	6
46	MP10	Z	-7.86	6
47	MP10	X	13.62	66
48	MP10	Z	-7.86	66
49	MP7	X	13.71	6
50	MP7	Z	-7.91	6
51	MP7	X	13.71	66
52	MP7	Z	-7.91	66
53	MP9	X	4.53	6
54	MP9	Z	-2.62	6
55	MP9	X	4.53	34
56	MP9	Z	-2.62	34
57	MP9	X	5.51	46
58	MP9	Z	-3.18	46
59	MP9	X	5.51	87
60	MP9	Z	-3.18	87
61	MP10	X	1.33	9
62	MP10	Z	-0.77	9
63	MP10	X	1.33	9
64	MP10	Z	-0.77	9
65	MP11	X	3.06	6
66	MP11	Z	-1.76	6
67	MP11	X	3.06	24
68	MP11	Z	-1.76	24
69	MP10	X	4.23	18
70	MP10	Z	-2.44	18
71	MP10	X	4.23	36
72	MP10	Z	-2.44	36
73	MP12	X	3.14	6

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
74	MP12	Z	-1.81	6
75	MP12	X	3.14	24
76	MP12	Z	-1.81	24
77	MP7	X	2.8	18
78	MP7	Z	-1.61	18
79	MP7	X	2.8	33
80	MP7	Z	-1.61	33
81	MP10	X	1.31	48
82	MP10	Z	-0.76	48
83	MP10	X	1.31	48
84	MP10	Z	-0.76	48
85	M125	X	4.2	18
86	M125	Z	-2.43	18
87	M125	X	4.2	18
88	M125	Z	-2.43	18
89	MP16	X	18.98	6
90	MP16	Z	-10.96	6
91	MP16	X	18.98	66
92	MP16	Z	-10.96	66
93	MP13	X	19.19	6
94	MP13	Z	-11.08	6
95	MP13	X	19.19	66
96	MP13	Z	-11.08	66
97	MP15	X	5.94	6
98	MP15	Z	-3.43	6
99	MP15	X	5.94	34
100	MP15	Z	-3.43	34
101	MP15	X	6.51	46
102	MP15	Z	-3.76	46
103	MP15	X	6.51	87
104	MP15	Z	-3.76	87
105	MP16	X	1.48	9
106	MP16	Z	-0.85	9
107	MP16	X	1.48	9
108	MP16	Z	-0.85	9
109	MP17	X	3.55	6
110	MP17	Z	-2.05	6
111	MP17	X	3.55	24
112	MP17	Z	-2.05	24
113	MP16	X	4.9	18
114	MP16	Z	-2.83	18
115	MP16	X	4.9	36
116	MP16	Z	-2.83	36
117	MP18	X	3.49	6
118	MP18	Z	-2.02	6
119	MP18	X	3.49	24

Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
120	MP18	Z	-2.02	24
121	MP13	X	2.97	18
122	MP13	Z	-1.72	18
123	MP13	X	2.97	33
124	MP13	Z	-1.72	33
125	MP16	X	1.33	48
126	MP16	Z	-0.77	48
127	MP16	X	1.33	48
128	MP16	Z	-0.77	48
129	M127	X	7.55	24
130	M127	Z	-4.36	24
131	M127	X	7.55	24
132	M127	Z	-4.36	24

Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	9.92	6
2	MP4	Z	-17.19	6
3	MP4	X	9.92	66
4	MP4	Z	-17.19	66
5	MP1	X	10.02	6
6	MP1	Z	-17.36	6
7	MP1	X	10.02	66
8	MP1	Z	-17.36	66
9	MP3	X	3.16	6
10	MP3	Z	-5.47	6
11	MP3	X	3.16	34
12	MP3	Z	-5.47	34
13	MP3	X	3.57	46
14	MP3	Z	-6.18	46
15	MP3	X	3.57	87
16	MP3	Z	-6.18	87
17	MP4	X	0.82	9
18	MP4	Z	-1.43	9
19	MP4	X	0.82	9
20	MP4	Z	-1.43	9
21	MP5	X	1.95	6
22	MP5	Z	-3.39	6
23	MP5	X	1.95	24
24	MP5	Z	-3.39	24
25	MP4	X	2.7	18
26	MP4	Z	-4.68	18
27	MP4	X	2.7	36
28	MP4	Z	-4.68	36
29	MP6	X	1.95	6
30	MP6	Z	-3.37	6

Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
31	MP6	X	1.95	24
32	MP6	Z	-3.37	24
33	MP1	X	1.68	18
34	MP1	Z	-2.91	18
35	MP1	X	1.68	33
36	MP1	Z	-2.91	33
37	MP4	X	0.76	48
38	MP4	Z	-1.32	48
39	MP4	X	0.76	48
40	MP4	Z	-1.32	48
41	M127	X	2.43	18
42	M127	Z	-4.2	18
43	M127	X	2.43	18
44	M127	Z	-4.2	18
45	MP10	X	6.83	6
46	MP10	Z	-11.83	6
47	MP10	X	6.83	66
48	MP10	Z	-11.83	66
49	MP7	X	6.86	6
50	MP7	Z	-11.88	6
51	MP7	X	6.86	66
52	MP7	Z	-11.88	66
53	MP9	X	2.35	6
54	MP9	Z	-4.06	6
55	MP9	X	2.35	34
56	MP9	Z	-4.06	34
57	MP9	X	2.99	46
58	MP9	Z	-5.18	46
59	MP9	X	2.99	87
60	MP9	Z	-5.18	87
61	MP10	X	0.74	9
62	MP10	Z	-1.28	9
63	MP10	X	0.74	9
64	MP10	Z	-1.28	9
65	MP11	X	1.67	6
66	MP11	Z	-2.89	6
67	MP11	X	1.67	24
68	MP11	Z	-2.89	24
69	MP10	X	2.31	18
70	MP10	Z	-4.01	18
71	MP10	X	2.31	36
72	MP10	Z	-4.01	36
73	MP12	X	1.75	6
74	MP12	Z	-3.03	6
75	MP12	X	1.75	24
76	MP12	Z	-3.03	24

Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
77	MP7	X	1.58	18
78	MP7	Z	-2.74	18
79	MP7	X	1.58	33
80	MP7	Z	-2.74	33
81	MP10	X	0.75	48
82	MP10	Z	-1.31	48
83	MP10	X	0.75	48
84	MP10	Z	-1.31	48
85	M125	X	2.43	18
86	M125	Z	-4.2	18
87	M125	X	2.43	18
88	M125	Z	-4.2	18
89	MP16	X	9.92	6
90	MP16	Z	-17.19	6
91	MP16	X	9.92	66
92	MP16	Z	-17.19	66
93	MP13	X	10.02	6
94	MP13	Z	-17.36	6
95	MP13	X	10.02	66
96	MP13	Z	-17.36	66
97	MP15	X	3.16	6
98	MP15	Z	-5.47	6
99	MP15	X	3.16	34
100	MP15	Z	-5.47	34
101	MP15	X	3.57	46
102	MP15	Z	-6.18	46
103	MP15	X	3.57	87
104	MP15	Z	-6.18	87
105	MP16	X	0.82	9
106	MP16	Z	-1.43	9
107	MP16	X	0.82	9
108	MP16	Z	-1.43	9
109	MP17	X	1.95	6
110	MP17	Z	-3.39	6
111	MP17	X	1.95	24
112	MP17	Z	-3.39	24
113	MP16	X	2.7	18
114	MP16	Z	-4.68	18
115	MP16	X	2.7	36
116	MP16	Z	-4.68	36
117	MP18	X	1.95	6
118	MP18	Z	-3.37	6
119	MP18	X	1.95	24
120	MP18	Z	-3.37	24
121	MP13	X	1.68	18
122	MP13	Z	-2.91	18

Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
123	MP13	X	1.68	33
124	MP13	Z	-2.91	33
125	MP16	X	0.76	48
126	MP16	Z	-1.32	48
127	MP16	X	0.76	48
128	MP16	Z	-1.32	48
129	M127	X	4.03	24
130	M127	Z	-6.98	24
131	M127	X	4.03	24
132	M127	Z	-6.98	24

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	Z	-14.502	6
2	MP4	Z	-14.502	66
3	MP1	Z	-11.774	6
4	MP1	Z	-11.774	66
5	MP3	Z	-10.751	6
6	MP3	Z	-10.751	34
7	MP3	Z	-13.606	46
8	MP3	Z	-13.606	87
9	MP4	Z	-3.329	9
10	MP4	Z	-3.329	9
11	MP5	Z	-9.647	6
12	MP5	Z	-9.647	24
13	MP4	Z	-8.591	18
14	MP4	Z	-8.591	36
15	MP6	Z	-11.53	6
16	MP6	Z	-11.53	24
17	MP1	Z	-11.693	18
18	MP1	Z	-11.693	33
19	MP4	Z	-4.125	48
20	MP4	Z	-4.125	48
21	M127	Z	-3.069	18
22	M127	Z	-3.069	18
23	MP10	Z	-14.502	6
24	MP10	Z	-14.502	66
25	MP7	Z	-11.774	6
26	MP7	Z	-11.774	66
27	MP9	Z	-10.751	6
28	MP9	Z	-10.751	34
29	MP9	Z	-13.606	46
30	MP9	Z	-13.606	87
31	MP10	Z	-3.329	9
32	MP10	Z	-3.329	9
33	MP11	Z	-9.647	6

Member Point Loads (BLC 31 : Seismic Load Z) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
34	MP11	Z	-9.647	24
35	MP10	Z	-8.591	18
36	MP10	Z	-8.591	36
37	MP12	Z	-11.53	6
38	MP12	Z	-11.53	24
39	MP7	Z	-11.693	18
40	MP7	Z	-11.693	33
41	MP10	Z	-4.125	48
42	MP10	Z	-4.125	48
43	M125	Z	-3.069	18
44	M125	Z	-3.069	18
45	MP16	Z	-14.502	6
46	MP16	Z	-14.502	66
47	MP13	Z	-11.774	6
48	MP13	Z	-11.774	66
49	MP15	Z	-10.751	6
50	MP15	Z	-10.751	34
51	MP15	Z	-13.606	46
52	MP15	Z	-13.606	87
53	MP16	Z	-3.329	9
54	MP16	Z	-3.329	9
55	MP17	Z	-9.647	6
56	MP17	Z	-9.647	24
57	MP16	Z	-8.591	18
58	MP16	Z	-8.591	36
59	MP18	Z	-11.53	6
60	MP18	Z	-11.53	24
61	MP13	Z	-11.693	18
62	MP13	Z	-11.693	33
63	MP16	Z	-4.125	48
64	MP16	Z	-4.125	48
65	M127	Z	-4.255	24
66	M127	Z	-4.255	24

Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	MP4	X	-14.502	6
2	MP4	X	-14.502	66
3	MP1	X	-11.774	6
4	MP1	X	-11.774	66
5	MP3	X	-10.751	6
6	MP3	X	-10.751	34
7	MP3	X	-13.606	46
8	MP3	X	-13.606	87
9	MP4	X	-3.329	9
10	MP4	X	-3.329	9

Member Point Loads (BLC 32 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
11	MP5	X	-9.647	6
12	MP5	X	-9.647	24
13	MP4	X	-8.591	18
14	MP4	X	-8.591	36
15	MP6	X	-11.53	6
16	MP6	X	-11.53	24
17	MP1	X	-11.693	18
18	MP1	X	-11.693	33
19	MP4	X	-4.125	48
20	MP4	X	-4.125	48
21	M127	X	-3.069	18
22	M127	X	-3.069	18
23	MP10	X	-14.502	6
24	MP10	X	-14.502	66
25	MP7	X	-11.774	6
26	MP7	X	-11.774	66
27	MP9	X	-10.751	6
28	MP9	X	-10.751	34
29	MP9	X	-13.606	46
30	MP9	X	-13.606	87
31	MP10	X	-3.329	9
32	MP10	X	-3.329	9
33	MP11	X	-9.647	6
34	MP11	X	-9.647	24
35	MP10	X	-8.591	18
36	MP10	X	-8.591	36
37	MP12	X	-11.53	6
38	MP12	X	-11.53	24
39	MP7	X	-11.693	18
40	MP7	X	-11.693	33
41	MP10	X	-4.125	48
42	MP10	X	-4.125	48
43	M125	X	-3.069	18
44	M125	X	-3.069	18
45	MP16	X	-14.502	6
46	MP16	X	-14.502	66
47	MP13	X	-11.774	6
48	MP13	X	-11.774	66
49	MP15	X	-10.751	6
50	MP15	X	-10.751	34
51	MP15	X	-13.606	46
52	MP15	X	-13.606	87
53	MP16	X	-3.329	9
54	MP16	X	-3.329	9
55	MP17	X	-9.647	6
56	MP17	X	-9.647	24

Member Point Loads (BLC 32 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
57	MP16	X	-8.591	18
58	MP16	X	-8.591	36
59	MP18	X	-11.53	6
60	MP18	X	-11.53	24
61	MP13	X	-11.693	18
62	MP13	X	-11.693	33
63	MP16	X	-4.125	48
64	MP16	X	-4.125	48
65	M127	X	-4.255	24
66	M127	X	-4.255	24

Member Area Loads (BLC 1 : Self Weight)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [psf]
1	N2	N5	N4	N3	Y	Two Way	-1.75
2	N4	N8	N7	N3	Y	Two Way	-1.75
3	N8	N5	N2	N7	Y	Two Way	-1.75

Member Area Loads (BLC 16 : Ice Weight)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [psf]
1	N2	N5	N4	N3	Y	Two Way	-5.414
2	N4	N8	N7	N3	Y	Two Way	-5.414
3	N8	N5	N2	N7	Y	Two Way	-5.414

Node Loads and Enforced Displacements (BLC 33 : Service Live Loads)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N1	L	Y	-250

Node Loads and Enforced Displacements (BLC 34 : Maintenance Load 1)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N51	L	Y	-500

Node Loads and Enforced Displacements (BLC 35 : Maintenance Load 2)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N54	L	Y	-500

Node Loads and Enforced Displacements (BLC 36 : Maintenance Load 3)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N68	L	Y	-500

Node Loads and Enforced Displacements (BLC 37 : Maintenance Load 4)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N59	L	Y	-500

Node Loads and Enforced Displacements (BLC 38 : Maintenance Load 5)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N82	L	Y	-500

Node Loads and Enforced Displacements (BLC 39 : Maintenance Load 6)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N73	L	Y	-500

Node Loads and Enforced Displacements (BLC 40 : Maintenance Load 7)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N107	L	Y	-500

Node Loads and Enforced Displacements (BLC 41 : Maintenance Load 8)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N110	L	Y	-500

Node Loads and Enforced Displacements (BLC 42 : Maintenance Load 9)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N125	L	Y	-500

Node Loads and Enforced Displacements (BLC 43 : Maintenance Load 10)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N137	L	Y	-500

Node Loads and Enforced Displacements (BLC 44 : Maintenance Load 11)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N177	L	Y	-500

Node Loads and Enforced Displacements (BLC 45 : Maintenance Load 12)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N156	L	Y	-500

Node Loads and Enforced Displacements (BLC 46 : Maintenance Load 13)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N174	L	Y	-500

Node Loads and Enforced Displacements (BLC 47 : Maintenance Load 14)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N142	L	Y	-500

Node Loads and Enforced Displacements (BLC 48 : Maintenance Load 15)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N219	L	Y	-500

Node Loads and Enforced Displacements (BLC 49 : Maintenance Load 16)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N198	L	Y	-500

Node Loads and Enforced Displacements (BLC 50 : Maintenance Load 17)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N216	L	Y	-500

Node Loads and Enforced Displacements (BLC 51 : Maintenance Load 18)

	Node Label	L, D, M	Direction	Magnitude [(lb, lb-ft), (in, rad), (lb*s²/in, lb*s²*in)]
1	N184	L	Y	-500

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N15	max	1316.837	18	1793.419	29	2080.793	25	2246.644	27	1779.029	23	-448.393	22
2		min	-1521.731	12	282.04	22	-2259.731	7	263.697	20	-1814.171	5	-3637.035	29
3	N33	max	2057.317	18	1793.721	33	482.79	2	-598.412	14	1230.248	18	681.513	157
4		min	-2113.035	12	278.089	14	-215.873	20	-4254.859	33	-1270.828	12	-794.635	187
5	N34	max	1610.523	4	1793.62	37	2137.736	16	2123.035	231	1934.537	22	3734.749	36
6		min	-1351.047	22	281.229	18	-2221.809	10	63.539	19	-1975.176	4	594.184	17
7	N35	max	437.801	17	40.777	33	1736.902	2	-2.911	51	145.934	17	0.873	205
8		min	-448.21	11	10.627	51	-1108.131	20	-11.469	33	-149.403	11	-0.874	271

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
9	N41	max	210.966	175	760.024	28	-244.259	57	-60.389	20	70.738	175	0.814	204
10		min	-96.986	169	181.196	20	-778.015	33	-253.255	28	-32.743	169	-0.962	270
11	N44	max	326.148	17	1014.05	91	360.813	14	97.163	14	942.85	7	3001.145	85
12		min	-326.148	11	188.512	60	-360.813	8	-2265.131	94	-942.858	25	149.749	17
13	N60	max	435.565	5	1053.399	112	369.504	2	2968.723	112	1002.687	23	961.527	109
14		min	-435.565	11	216.598	57	-369.504	20	158.064	20	-1002.724	17	-973.584	115
15	N74	max	593.372	5	1084.833	135	571.776	14	277.722	14	1204.631	15	86.028	23
16		min	-593.372	23	239.043	56	-571.776	8	-2339.071	142	-1204.731	9	-3094.178	127
17	N87	max	1500.793	6	40.717	37	633.255	25	5.755	38	151.959	21	9.914	37
18		min	-950.234	24	10.627	55	-933.701	7	0.774	153	-155.42	3	2.23	248
19	N89	max	-206.414	15	760.466	32	373.681	209	126.497	31	70.436	239	219.574	32
20		min	-719.176	36	180.841	24	42.012	21	30.215	24	-32.441	209	52.15	24
21	N95	max	901.772	16	40.715	29	696.937	15	5.744	28	151.897	25	-2.187	228
22		min	-1439.381	10	10.627	59	-1017.478	9	0.802	191	-155.347	7	-9.92	29
23	N97	max	629.299	31	759.822	35	498.661	280	126.741	35	70.542	280	-52.492	16
24		min	173.352	14	181.507	16	93.104	20	30.067	16	-32.539	262	-219.184	35
25	Totals:	max	8605.156	5	9326.558	36	8678.963	14						
26		min	-8605.156	11	3103.602	54	-8678.975	8						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn
1	M6	L3X3X4	0.906	84	28	0.141	0	y	11	15778.129	46656	1688.138	2160.605	1	H2-1
2	M1	L3X3X4	0.905	84	32	0.135	0	y	3	15778.129	46656	1688.138	2160.605	1	H2-1
3	M5	L3X3X4	0.901	84	36	0.134	0	y	7	15778.129	46656	1688.138	2160.605	1	H2-1
4	M50	PIPE_2.0	0.58	24	143	0.122	24		140	26521.424	32130	1871.625	1871.625	1.745	H1-1b
5	M32	PIPE_2.0	0.58	24	87	0.122	24		84	26521.424	32130	1871.625	1871.625	1.745	H1-1b
6	M43	PIPE_2.0	0.58	24	115	0.122	24		112	26521.424	32130	1871.625	1871.625	1.745	H1-1b
7	M113	PIPE_2.0	0.482	50.25	31	0.224	50.25		6	20866.733	32130	1871.625	1871.625	2.495	H1-1b
8	M92	PIPE_2.0	0.481	50.25	27	0.225	50.25		28	20866.733	32130	1871.625	1871.625	2.075	H1-1b
9	M72	PIPE_2.0	0.48	50.25	34	0.222	50.25		36	20866.733	32130	1871.625	1871.625	2.223	H1-1b
10	M97	PIPE_2.0	0.424	50.25	252	0.287	50.25		11	20866.733	32130	1871.625	1871.625	2.346	H1-1b
11	M118	PIPE_2.0	0.423	50.25	184	0.285	50.25		3	20866.733	32130	1871.625	1871.625	2.181	H1-1b
12	M11	PIPE_2.0	0.423	50.25	200	0.288	50.25		7	20866.733	32130	1871.625	1871.625	2.262	H1-1b
13	MP14	PIPE_2.0	0.416	50.25	229	0.158	50.25		34	20866.733	32130	1871.625	1871.625	2.326	H1-1b
14	MP2	PIPE_2.0	0.416	50.25	153	0.156	50.25		30	20866.733	32130	1871.625	1871.625	2.163	H1-1b
15	MP8	PIPE_2.0	0.415	50.25	268	0.158	50.25		38	20866.733	32130	1871.625	1871.625	2.162	H1-1b
16	M117	PIPE_2.0	0.401	50.25	223	0.276	50.25		5	20866.733	32130	1871.625	1871.625	2.297	H1-1b
17	M96	PIPE_2.0	0.401	50.25	159	0.273	50.25		13	20866.733	32130	1871.625	1871.625	2.199	H1-1b
18	M78	PIPE_2.0	0.4	50.25	275	0.277	50.25		9	20866.733	32130	1871.625	1871.625	2.247	H1-1b
19	M7	L3X3X4	0.398	43.297	31	0.017	43.297	z	27	14847.125	46656	1688.138	3129.074	1.282	H2-1
20	M8	L3X3X4	0.397	43.297	28	0.017	43.297	z	36	14847.125	46656	1688.138	3127.766	1.28	H2-1
21	M4	L3X3X4	0.394	43.297	36	0.017	43.297	z	31	14847.125	46656	1688.138	3124.678	1.275	H2-1
22	MR3	PIPE_2.0	0.379	125.062	11	0.153	48.937		4	17855.085	32130	1871.625	1871.625	1	H1-1b
23	MR5	PIPE_2.0	0.374	125.062	7	0.15	48.937		12	17855.085	32130	1871.625	1871.625	1	H1-1b
24	MR1	PIPE_2.0	0.373	61.625	190	0.153	48.938		8	17855.085	32130	1871.625	1871.625	1.759	H1-1b
25	MP1	PIPE_2.0	0.345	39	8	0.088	39		2	19360.206	32130	1871.625	1871.625	2.213	H1-1b

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

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn
26	MP4	PIPE_2.0	0.344	39	8	0.087	39		8	19360.206	32130	1871.625	1871.625	2.239	H1-1b
27	MP7	PIPE_2.0	0.344	39	4	0.087	39		10	19360.206	32130	1871.625	1871.625	1.689	H1-1b
28	MP13	PIPE_2.0	0.344	39	12	0.087	39		6	19360.206	32130	1871.625	1871.625	1.669	H1-1b
29	MP16	PIPE_2.0	0.343	39	12	0.086	39		12	19360.206	32130	1871.625	1871.625	1.695	H1-1b
30	MP10	PIPE_2.0	0.343	39	4	0.086	39		4	19360.206	32130	1871.625	1871.625	1.67	H1-1b
31	MS5	HSS4X4X4	0.279	0	31	0.131	0	z	12	139071.681	139518	16180.5	16180.5	1.175	H1-1b
32	MS2	HSS4X4X4	0.276	0	35	0.13	0	z	9	139071.681	139518	16180.5	16180.5	1.175	H1-1b
33	MS6	HSS4X4X4	0.271	0	35	0.111	0	z	5	139071.681	139518	16180.5	16180.5	1.175	H1-1b
34	MP3	PIPE_2.0	0.192	51	8	0.046	51		37	14916.096	32130	1871.625	1871.625	2.051	H1-1b
35	MP15	PIPE_2.0	0.192	51	12	0.047	51		29	14916.096	32130	1871.625	1871.625	2.643	H1-1b
36	MP9	PIPE_2.0	0.192	51	4	0.046	51		32	14916.096	32130	1871.625	1871.625	3	H1-1b
37	M47	HSS4X4X4	0.19	0	142	0.1	0	y	125	135427.058	139518	16180.5	16180.5	1.608	H1-1b
38	M40	HSS4X4X4	0.186	0	122	0.099	0	y	115	135427.058	139518	16180.5	16180.5	1.597	H1-1b
39	M31	HSS4X4X4	0.182	0	82	0.098	0	y	87	135427.058	139518	16180.5	16180.5	1.584	H1-1b
40	MS3	HSS4.5X4.5X3	0.166	0	31	0.068	0	y	187	119847.027	121302	16249.5	16249.5	1.724	H1-1b
41	MS1	HSS4.5X4.5X3	0.165	0	29	0.068	0	y	255	119847.027	121302	16249.5	16249.5	1.722	H1-1b
42	M127	PIPE_2.0	0.165	36	6	0.028	36		6	26521.424	32130	1871.625	1871.625	2.052	H1-1b
43	MS4	HSS4.5X4.5X3	0.164	0	37	0.068	0	y	203	119847.027	121302	16249.5	16249.5	1.722	H1-1b
44	M61	L2.5x2.5x3	0.139	26.217	10	0.015	52.434	y	38	15656.773	29192.4	872.574	1676.457	1.136	H2-1
45	M54	L2.5x2.5x3	0.134	26.217	6	0.015	52.434	z	28	15656.773	29192.4	872.574	1676.457	1.136	H2-1
46	M55	L2.5x2.5x3	0.12	26.217	7	0.015	52.434	z	8	15656.773	29192.4	872.574	1676.457	1.136	H2-1
47	M26	L2.5x2.5x3	0.119	25.671	2	0.015	52.434	y	30	15656.773	29192.4	872.574	1676.457	1.136	H2-1
48	M60	L2.5x2.5x3	0.118	26.217	9	0.015	52.434	z	32	15656.773	29192.4	872.574	1676.457	1.136	H2-1
49	M9	LL3x3x4x0	0.117	47	11	0.017	0	y	245	76373.943	93312	6480	4360.702	2.057	H1-1b
50	M27	L2.5x2.5x3	0.114	25.671	2	0.015	52.434	z	36	15656.773	29192.4	872.574	1676.457	1.136	H2-1
51	M3	LL3x3x4x0	0.109	47	3	0.017	0	y	189	76373.943	93312	6480	4360.702	2.049	H1-1b
52	M2	LL3x3x4x0	0.108	47	7	0.017	0	y	205	76373.943	93312	6480	4360.702	2.049	H1-1b
53	MP11	PIPE_2.0	0.107	36	4	0.012	36		4	26521.424	32130	1871.625	1871.625	1.636	H1-1b
54	MP17	PIPE_2.0	0.107	36	12	0.012	36		12	26521.424	32130	1871.625	1871.625	1.636	H1-1b
55	MP5	PIPE_2.0	0.107	36	8	0.012	36		8	26521.424	32130	1871.625	1871.625	1.364	H1-1b
56	MP6	PIPE_2.0	0.105	36	8	0.012	36		8	26521.424	32130	1871.625	1871.625	1.364	H1-1b
57	MP12	PIPE_2.0	0.105	36	4	0.012	36		4	26521.424	32130	1871.625	1871.625	1.636	H1-1b
58	MP18	PIPE_2.0	0.105	36	12	0.012	36		12	26521.424	32130	1871.625	1871.625	1.636	H1-1b
59	M30	L2.5x2.5x3	0.085	25.145	11	0.011	50.289	z	4	16458.486	29192.4	872.574	1693.976	1.136	H2-1
60	M53	L2.5x2.5x3	0.083	25.145	3	0.012	50.289	z	8	16458.486	29192.4	872.574	1693.976	1.136	H2-1
61	M29	L2.5x2.5x3	0.079	25.145	5	0.01	50.289	y	5	16458.486	29192.4	872.574	1693.976	1.136	H2-1
62	M63	L2.5x2.5x3	0.077	25.145	13	0.011	50.289	y	13	16458.486	29192.4	872.574	1693.976	1.136	H2-1
63	M59	L2.5x2.5x3	0.067	25.145	7	0.011	50.289	z	12	16458.486	29192.4	872.574	1693.976	1.136	H2-1
64	M57	L2.5x2.5x3	0.06	25.145	9	0.01	50.289	y	9	16458.486	29192.4	872.574	1693.976	1.136	H2-1
65	M125	PIPE_2.0	0.058	36	13	0.007	36		13	26521.424	32130	1871.625	1871.625	1.738	H1-1b
66	MR2	PIPE_2.0	0.032	8.428	33	0.126	16.856		5	31378.785	32130	1871.625	1871.625	1.005	H1-1b
67	MR4	PIPE_2.0	0.032	8.604	29	0.126	16.856		13	31378.785	32130	1871.625	1871.625	1.005	H1-1b
68	MR6	PIPE_2.0	0.032	8.253	37	0.126	16.856		9	31378.785	32130	1871.625	1871.625	1.005	H1-1b
69	M33	PIPE_4.0	0	9	37	0.001	9		11	92571.332	93240	10631.25	10631.25	1.561	H1-1b*
70	M38	PIPE_4.0	0	9	38	0.001	9		2	92571.332	93240	10631.25	10631.25	1.562	H1-1b*
71	M45	PIPE_4.0	0	9	30	0.001	9		5	92571.332	93240	10631.25	10631.25	1.561	H1-1b*

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

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn

APPENDIX D

ADDITIONAL CALCUATIONS

INFINIGY

FROM ZERO TO INFINIGY

the solutions are endless

Welded Calculation Tool, V1.0

PROJECT DATA	
Site Name:	BIC DRIVE (SSUSA)
Site Number:	876342
Job Code:	1039-Z0001-B
Date:	9/13/2021

WELD INFORMATION		
Design:	LRFD	-
Weld Strength (F_EXX):	70	ksi
Weld Thickness:	0.1875	in

MAIN SHAPE INFORMATION		
Main Shape:	Rectangle	-
Main Shape Material:	A 500 Gr. B Rect.	-
Main Shape Thickness:	0.233	in
Main Shape Size:	4X4	in

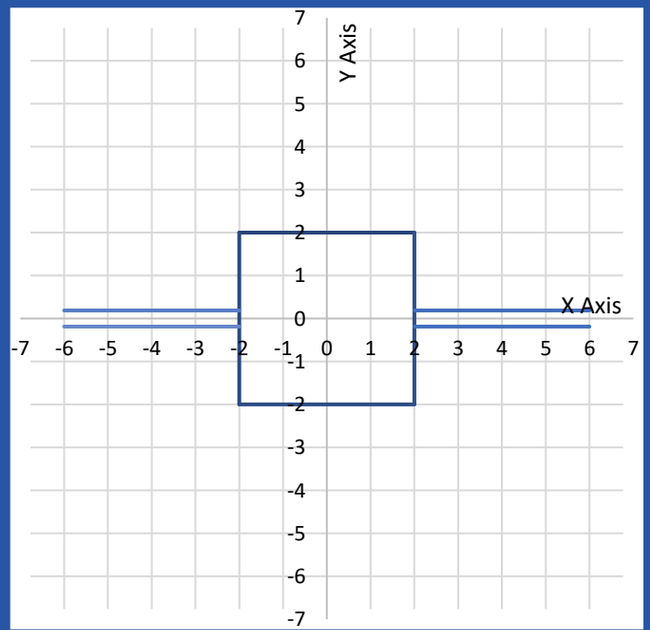
TOTAL SUM OF LINES PROPERTIES		
Polar Moment of Inertia:	363.229	in^3
Section Modulus X-X dir.:	21.615	in^2
Section Modulus Y-Y dir.:	53.333	in^2
Critical Usage Mode*:	Weld Critical	-
Critical Thickness Used:	0.188	in

SECONDARY SHAPE INFORMATION		
Secondary Shape:	Custom	-
Secondary Shape Material:	A36	-
Secondary Shape Thickness:	0.375	in
Secondary Shape Size:	N/A	in

WELD DESCRIPTION
Standoff to Collar

RESULTS		
Critical Risa Combination:	LC 30	-
Critical Member Label:	MS5	-
Member End:	i	-
Weld Strength (Phi*Rn):	4176.349	lb/in
Weld Demand (Ru):	966.276	lb/in
Usage ratio:	**23.1%**	OK

WELD DIAGRAM (NOT TO SCALE)



NOTES
*The strength of the weld governs the design compared to the effective strength of the welded object.

INFINIGY

FROM ZERO TO INFINIGY

the solutions are endless

Bolt Calculation Tool, V1.5.1

PROJECT DATA	
Site Name:	BIC DRIVE (SSUSA)
Site Number:	876342
Connection Description:	Bottom V-Kit to Collar

MAXIMUM BOLT LOADS		
Bolt Tension:	329.82	lbs
Bolt Shear:	117.00	lbs

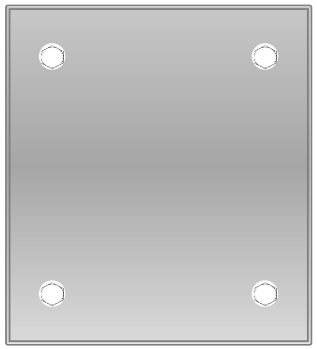
WORST CASE BOLT LOADS[1]		
Bolt Tension:	329.82	lbs
Bolt Shear:	74.19	lbs

BOLT PROPERTIES		
Bolt Type:	Bolt	-
Bolt Diameter:	0.5	in
Bolt Grade:	A325	-
# of Bolts:	4	-
Threads Excluded?	No	-

[1] *Worst case bolt loads correspond to Load combination #19 on member M25 in RISA-3D, which causes the maximum demand on the bolts.*

Member Information
I nodes of M25, M52, M58

BOLT CHECK		
Tensile Strength	12770.86	
Shear Strength	8835.73	
Max Tensile Usage	2.6%	
Max Shear Usage	1.3%	
Interaction Check (Worst Case)	0.00	***≤1.05***
Result	Pass	



INFINIGY

FROM ZERO TO INFINIGY

the solutions are endless

Bolt Calculation Tool, V1.5.1

PROJECT DATA	
Site Name:	BIC DRIVE (SSUSA)
Site Number:	876342
Connection Description:	Top V-Kit to Collar

MAXIMUM BOLT LOADS		
Bolt Tension:	477.55	lbs
Bolt Shear:	191.42	lbs

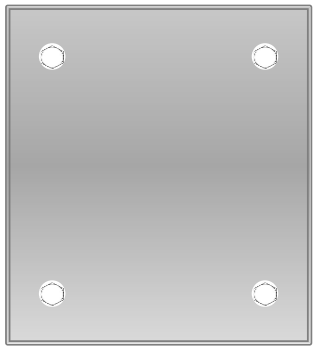
WORST CASE BOLT LOADS[1]		
Bolt Tension:	477.55	lbs
Bolt Shear:	189.78	lbs

BOLT PROPERTIES		
Bolt Type:	Bolt	-
Bolt Diameter:	0.5	in
Bolt Grade:	A325	-
# of Bolts:	4	-
Threads Excluded?	No	-

[1] *Worst case bolt loads correspond to Load combination #31 on member M28 in RISA-3D, which causes the maximum demand on the bolts.*

Member Information
I nodes of M28, M56, M62

BOLT CHECK		
Tensile Strength	12770.86	
Shear Strength	8835.73	
Max Tensile Usage	3.7%	
Max Shear Usage	2.2%	
Interaction Check (Worst Case)	0.00	***≤1.05***
Result	Pass	



INFINIGY

FROM ZERO TO INFINIGY

the solutions are endless

Bolt Calculation Tool, V1.5.1

PROJECT DATA	
Site Name:	BIC DRIVE (SSUSA)
Site Number:	876342
Connection Description:	RRH Standoff to Collar

MAXIMUM BOLT LOADS		
Bolt Tension:	2635.38	lbs
Bolt Shear:	812.12	lbs

WORST CASE BOLT LOADS[1]		
Bolt Tension:	2635.38	lbs
Bolt Shear:	445.80	lbs

BOLT PROPERTIES		
Bolt Type:	Bolt	-
Bolt Diameter:	0.625	in
Bolt Grade:	A325	-
# of Bolts:	4	-
Threads Excluded?	No	-

[1] *Worst case bolt loads correspond to Load combination #142 on member M47 in RISA-3D, which causes the maximum demand on the bolts.*

Member Information
I nodes of M31, M40, M47

BOLT CHECK		
Tensile Strength	20340.15	
Shear Strength	13805.83	
Max Tensile Usage	13.0%	
Max Shear Usage	5.9%	
Interaction Check (Worst Case)	0.02	***≤1.05***
Result	Pass	

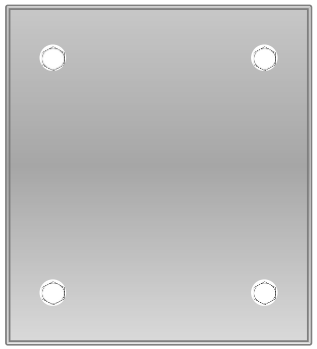


Exhibit F

Power Density/RF Emissions Report

EBI Consulting

environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

AT&T Existing Facility

Site ID: CTL05098

876342
111 School House Road
Milford, Connecticut 06460

February 11, 2022

EBI Project Number: 6222000331

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**62.07%**

February 11, 2022

AT&T

Emissions Analysis for Site: CTL05098 - 876342

EBI Consulting was directed to analyze the proposed AT&T facility located at **111 School House Road** in **Milford, Connecticut** for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation 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 ($\mu W/cm^2$). 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.

Public 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 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz 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 percent 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 done for the proposed AT&T Wireless antenna facility located at 111 School House Road in Milford, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. For power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

For all calculations, all equipment was calculated using the following assumptions:

1) 4 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

2) 4 LTE FN channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

3) 4 5G channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

4) 4 LTE / 5G channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

5) 4 LTE / 5G channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

6) 4 LTE channels (WCS Band – 2300 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 25 Watts per Channel.

7) 2 C-Band Channels (3700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 144.58 Watts per Channel.

8) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

9) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

10) The antennas used in this modeling are the CCI TPA-65R-BU6D for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector A, the CCI TPA-65R-BU6D for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector B, the CCI TPA-65R-BU6D for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

11) The antenna mounting height centerline of the proposed antennas is 125 feet above ground level (AGL).

12) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

13) All calculations were done with respect to uncontrolled / general population threshold limits.

AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	CCI TPA-65R-BU6D	Make / Model:	CCI TPA-65R-BU6D	Make / Model:	CCI TPA-65R-BU6D
Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz
Gain:	12.35 dBd / 15.95 dBd / 16.25 dBd	Gain:	12.35 dBd / 15.95 dBd / 16.25 dBd	Gain:	12.35 dBd / 15.95 dBd / 16.25 dBd
Height (AGL):	125 feet	Height (AGL):	125 feet	Height (AGL):	125 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	480.00 Watts	Total TX Power (W):	480.00 Watts	Total TX Power (W):	480.00 Watts
ERP (W):	15,792.60	ERP (W):	15,792.60	ERP (W):	15,792.60
Antenna A1 MPE %:	**4.81%**	Antenna B1 MPE %:	**4.81%**	Antenna C1 MPE %:	**4.81%**
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	125 feet	Height (AGL):	125 feet	Height (AGL):	125 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A2 MPE %:	**8.12%**	Antenna B2 MPE %:	**8.12%**	Antenna C2 MPE %:	**8.12%**
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	125 feet	Height (AGL):	125 feet	Height (AGL):	125 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A3 MPE %:	**8.12%**	Antenna B3 MPE %:	**8.12%**	Antenna C3 MPE %:	**8.12%**
Antenna #:	**4**	Antenna #:	**4**	Antenna #:	**4**
Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA
Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz
Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd	Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd	Gain:	11.85 dBd / 12.45 dBd / 16.25 dBd
Height (AGL):	125 feet	Height (AGL):	125 feet	Height (AGL):	125 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	420.00 Watts	Total TX Power (W):	420.00 Watts	Total TX Power (W):	420.00 Watts
ERP (W):	9,479.38	ERP (W):	9,479.38	ERP (W):	9,479.38
Antenna A4 MPE %:	**3.66%**	Antenna B4 MPE %:	**3.66%**	Antenna C4 MPE %:	**3.66%**

• An adjusted power reduction factor of 0.32 was applied to the AIR 6449 antennas per guidance from AT&T.
• Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.

Site Composite MPE %	
Carrier	**MPE %**
AT&T (Max at Sector A):	24.71%
Verizon	18.7%
Metro PCS	0.86%
Sprint	0.43%
T-Mobile	17.37%
Site Total MPE % :	62.07%

AT&T MPE % Per Sector	
AT&T Sector A Total:	24.71%
AT&T Sector B Total:	24.71%
AT&T Sector C Total:	24.71%
Site Total MPE % :	62.07%

AT&T Maximum MPE Power Values (Sector A)

AT&T Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
AT&T 700 MHz LTE FN	4	687.16	125.0	6.98	700 MHz LTE FN	467	1.49%
AT&T 1900 MHz LTE/5G	4	1574.20	125.0	15.99	1900 MHz LTE/5G	1000	1.60%
AT&T 2100 MHz LTE/5G	4	1686.79	125.0	17.13	2100 MHz LTE/5G	1000	1.71%
AT&T 3700 MHz C-Band	1	31996.92	125.0	81.23	3700 MHz C-Band	1000	8.12%
AT&T 3700 MHz C-Band	1	31996.92	125.0	81.23	3700 MHz C-Band	1000	8.12%
AT&T 700 MHz LTE	4	612.43	125.0	6.22	700 MHz LTE	467	1.33%
AT&T 850 MHz 5G	4	703.17	125.0	7.14	850 MHz 5G	567	1.26%
AT&T 2300 MHz LTE	4	1054.24	125.0	10.71	2300 MHz LTE	1000	1.07%
						Total:	**24.71%**

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

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 AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

AT&T Sector	Power Density Value (%)
Sector A:	24.71%
Sector B:	24.71%
Sector C:	24.71%
AT&T Maximum MPE % (Sector A):	24.71%
Site Total:	62.07%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **62.07%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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 values calculated were well within the allowable 100% threshold standard per the federal government.