Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

June 27, 2022

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

RE: **Notice of Exempt Modification for ATT**
Crown #876316; ATT Site ID CTNH509A
21 Acorn Road, Branford, CT 06405
Latitude: 41° 17' 35.06" N / Longitude: -72° 45' 46.40" W

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 105-foot level of the existing 147-foot monopole tower at 21 Acorn Road, Branford, CT. The tower is owned by Crown Castle USA Inc. and the property is owned by 21 Acorn Road LLC. AT&T now intends to replace six (6) antennas, relocate six (6) existing antennas, install six (6) new antennas and ancillary equipment at the 105-foot level. This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Installed New:
(6) Ericsson-AIR6449 B77D + AIR6419 B77G Stacked Antennas
(1) DC6-48-60-18-8F Squid
(1) 3/8" 18 Pair Fiber Trunk
(2) 7/8" 6AWG DC Trunk
(3) Dual RRH Mount Brackets
(3) Y CABLES

Remove:
(3) POWERWAVE-7770 Antennas
(3) ANDREW-SBNHH-1D65A Antennas
(6) POWERWAVE-LGP 21401 TMAs

Ground:

Install New:
(4) Rectifiers
(5) Battery String
(1) 6648 w/XCEDE Cable on LTE Rack

Remove:
(6) POWERWAVE-LGP 21901 Diplexers
(5) Battery String

The facility was approved by the Town of Branford Planning and Zoning Commission by way of a Special Exception Application File #97-5.1 on September 4th, 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 First Selectman James Cosgrove, Town Planner Harry Smith both for the municipality, 21 Acorn Road LLC for the property owner and Crown Castle is the tower 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, ATT respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Domenica Tatasciore.

Sincerely,

Domenica Tatasciore
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
(508) 621-9161/ Domenica.Tatasciore@crowncastle.com

Attachments
cc:

James Cosgrove, First Selectman
Town of Branford
1019 Main Street
Branford, CT 06405
203-315-0620

Harry Smith, Town Planner
Town of Branford
1019 Main Street
Branford, CT 06405
203-488-1255

21 Acorn Road LLC
21 Acorn RD
Branford, CT 06405

Crown Castle, Tower Owner

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 777232423014: Your package has been delivered
Date: Tuesday, June 28, 2022 10:04:40 AM

FedEx

Hi. Your package was delivered Tue, 06/28/2022 at 10:02am.

Delivered to 1019 MAIN ST, BRANFORD, CT 06405
Received by C.LRK

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777232423014

FROM Domenica Tatasciore
1800 West Park Drive

	Suite 200 WESTBOROUGH, MA, US, 01581
TO	Town of Branford First Selectman James Cosgrove 1019 Main Street BRANFORD, CT, US, 06405
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 6/27/2022 05:19 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BRANFORD, CT, US, 06405
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 777232428965: Your package has been delivered
Date: Tuesday, June 28, 2022 10:05:27 AM

Hi. Your package was delivered Tue, 06/28/2022 at 10:02am.

Delivered to 1019 MAIN ST, BRANFORD, CT 06405
Received by C.LRK

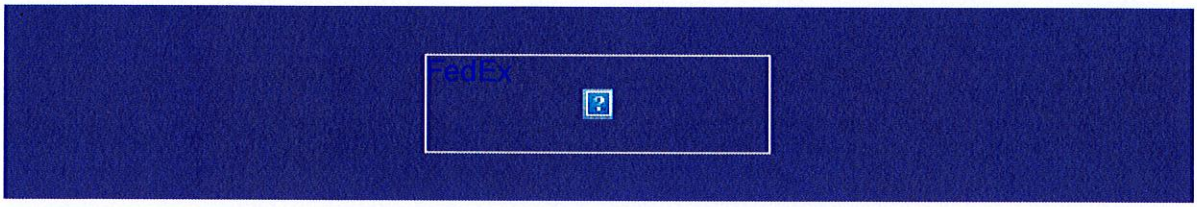
OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777232428965

FROM Domenica Tatasciore
1800 West Park Drive

	Suite 200 WESTBOROUGH, MA, US, 01581
TO	Town of Branford Harry Smith, Town Planner 1019 Main Street BRANFORD, CT, US, 06405
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 6/27/2022 05:19 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BRANFORD, CT, US, 06405
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

From: TrackingUpdates@fedex.com
To: Tatasciore, Domenica
Subject: FedEx Shipment 777232439355: Your package has been delivered
Date: Tuesday, June 28, 2022 10:07:05 AM



Hi. Your package was delivered Tue, 06/28/2022 at 10:05am.

Delivered to 21 ACORN RD, BRANFORD, CT 06405
Received by R.REEDER

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER 777232439355

FROM Domenica Tatasciore
1800 West Park Drive

	Suite 200 WESTBOROUGH, MA, US, 01581
TO	21 Acorn Road LLC 21 Acord Road BRANFORD, CT, US, 06405
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 6/27/2022 05:19 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BRANFORD, CT, US, 06405
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

H5/3/10

PLANNING AND ZONING COMMISSION
TOWN OF BRANFORD TOWN HALL DRIVE P.O. BOX 150
Branford, Connecticut 06405 488-1255

NOTICE OF DECISION

September 5, 1997

Sprint PCS
9 Barnes Industrial Road
Wallingford, Connecticut 06492

SUBJECT: Special Exception APPLICATION: #97-5.1

LOCATION: 21 Acorn Road

OWNER OF RECORD: Altrio Investment Group

Dear Sir:

At a meeting of the Branford Planning & Zoning Commission held on Thursday, September 4, 1997, the Commission voted to:

X Approve your above subject application with the conditions noted below.

Very truly yours,

Shirley Rasmussen
Town Planner

NOTE: This Special Exception shall become effective only after it is filed on the Land Records in the office of the Town Clerk.

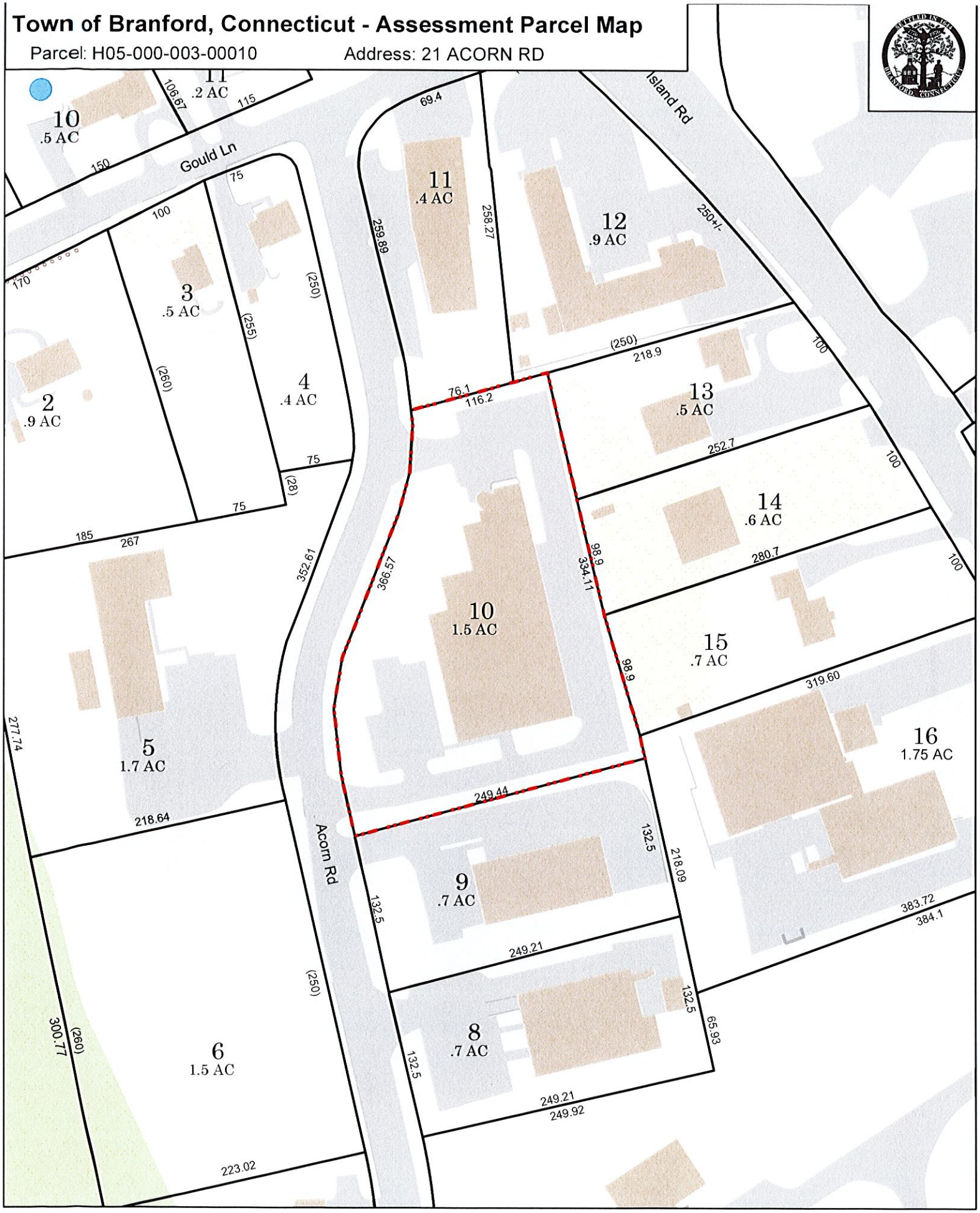
1. Prior to issuance of a building permit, revise landscape plan to show plantings 5 to 6 feet in height on all four sides of the equipment area. 36" only 8 plants on two sides only
2. All users of the telecommunications facility must demonstrate compliance with current FCC regulations for electromagnetic frequency emissions and any future changes in these standards.
3. The owner of the telecommunications facility shall provide for and encourage co-location of other antennae on the facility.

NOTE: Special Exception shall become null and void in the event the applicant fails to obtain a building permit within one (1) year of date of approval.
(Per Section 31.7 of the Branford Zoning Regulations)

CC: Attorney John Knuff

Town of Branford, Connecticut - Assessment Parcel Map

Parcel: H05-000-003-00010 Address: 21 ACORN RD



Approximate Scale: 1 inch : 100 feet

Grand List Date June 2021

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

Town of Branford, CT

Property Listing Report

Map Block Lot H05/000/003/ Bldg # 1 Sec # 1 PID 1176 Account 008133

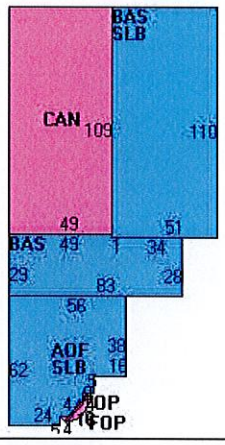
Property Information

Property Location	21 ACORN RD
Owner	21 ACORN ROAD LLC
Co-Owner	na
Mailing Address	21 ACORN RD BRANFORD CT 06405
Land Use	3160 COMM WHS MDL96
Land Class	C
Zoning Code	IG-2
Census Tract	

Ph

Neighborhood	350
Acreage	1.56
Utilities	Public Water,Public Sewer
Lot Setting/Desc	Industrial Level,Above Street
Book / Page	1279/0300

Sketch



Primary Construction Details

Year Built	2001
Building Desc.	COMM WHS MDL96
Building Style	Warehouse
Building Grade	B
Stories	1
Occupancy	1.00
Exterior Walls	Concr/Cinder
Exterior Walls 2	NA
Roof Style	Flat
Roof Cover	T&G/Rubber
Interior Walls	Minim/Masonry
Interior Walls 2	NA
Interior Floors 1	Concr-Finished
Interior Floors 2	NA

Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	
Fireplaces	

(*Industrial / Commercial Details)

Building Use	Ind/Comm
Building Condition	G
Sprinkler %	NA
Heat / AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths / Plumbing	AVERAGE
Ceiling / Wall	NONE
Rooms / Prtns	AVERAGE
Wall Height	17.00
First Floor Use	NA
Foundation	NA

Report Created On 6/22/2022

Town of Branford, CT

Property Listing Report

Map Block Lot H05/000/003/ Bldg # 1 Sec # 1 PID 1176 Account 008133

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	489200	342400
Extras	52600	36900
Improvements		
Outbuildings	27800	19500
Land	441100	308800
Total	1111770	778360

Outbuilding and Extra Features

Type	Description
PAVING-ASPHALT	21000 S.F.
FENCE-6' CHAIN	500 L.F.
SPRINKLERS-WET	13324 S.F.
WET/CONCEALED	2928 S.F.
AIR CONDITION	2928 S.F.
GEN 100+ KW PRMT BKP	

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Office	2929	2929
First Floor	7983	7983
Canopy	5341	0
Porch, Open	80	0
Slab	8539	0
Total Area	24872	10912

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
21 ACORN ROAD LLC	1279/0300	2020-03-17	0
ALTRIO INVESTMENT GROUP LLC	0568/0731	1994-04-08	0

Report Created On 6/22/2022

Radio Frequency Safety Survey Report Predictive (RFSSRP) Prepared For AT&T

Site Name:	BRANFORD - LEETES ISLAND
FA#	10035270
USID:	27039
Site ID:	CTL02014
Address:	21 ACORN ROAD BRANFORD, CT 06405
County:	NEW HAVEN
Latitude:	41.2930481
Longitude:	-72.7628881
Structure Type:	MONOPOLE
Property Owner:	21 ACRON ROAD LLC
Pace Job:	MRCTB057000
RFDS Technology:	5G NR 1SR CBAND

Report Information

Report Writer: Sunita Sati

Report Generated Date: 06-14-2022

Compliance Statement

AT&T Mobility Compliance Statement: Based on the information collected, AT&T Mobility will be Compliant when the remediation recommended in section 5 or appropriate remediation determined by AT&T is implemented

Table of Contents

1. Executive Summary

1.1 Site Summary

Max Predictive Spatial Average MPE% & Location on Site (General Public)	19626.8% on Antennas Centerline Level & at AT&T Sec-A antenna no. #A3-2
Max Predictive Spatial Average MPE% at Ground Level (General Public)	2.1%
AT&T Mobility Site Compliance	AT&T Mobility will be Compliant by implementing remediation recommended as per section 5 in this report.

TABLE 1: Site Summary

1.2 Signage Summary (Proposed)

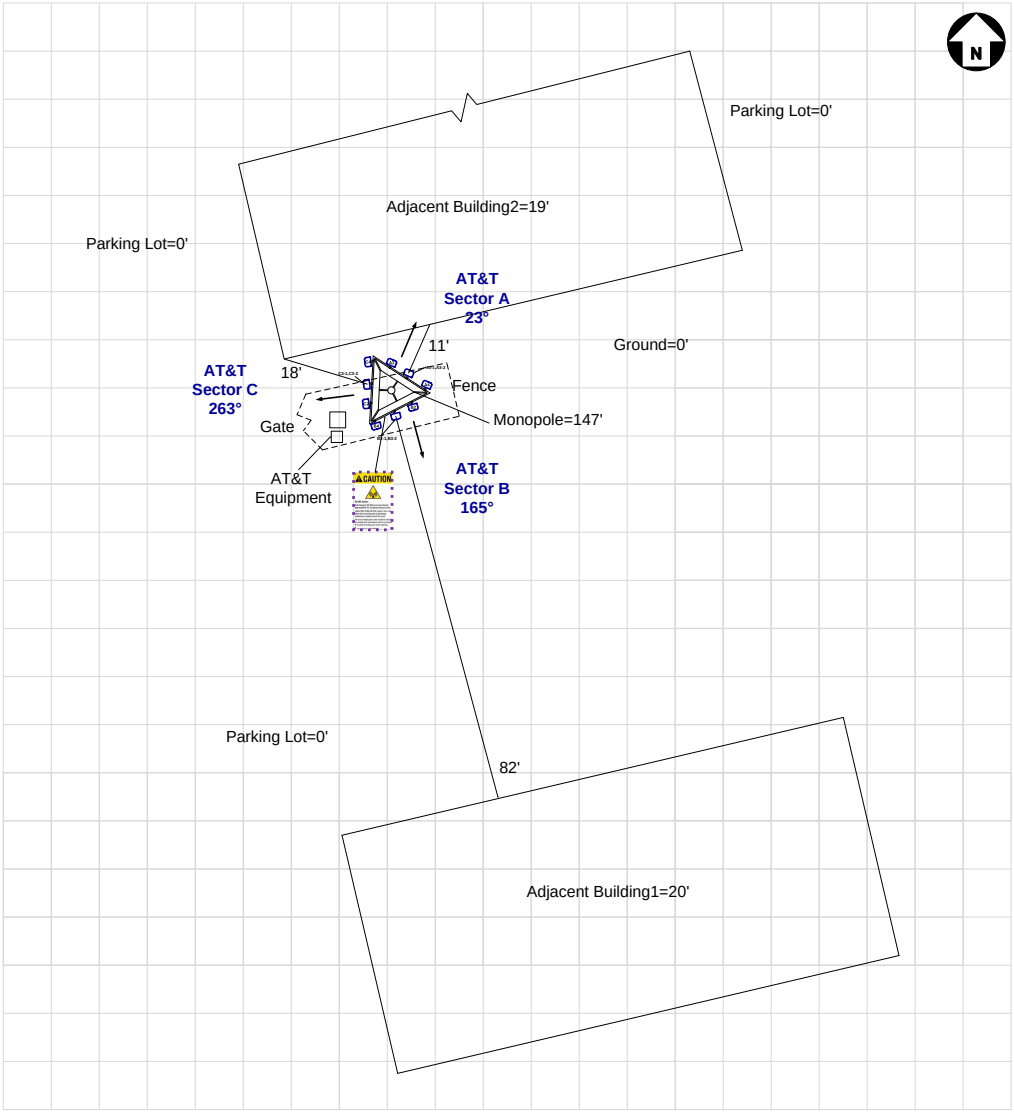
AT&T Signage Locations	Sign Type									
	Safety Instructions	Notice Sign 2	Caution Sign 2	Caution Sign 2B	Caution Sign 2C	Caution 7"x7"	Warning Sign 1B	RF Exposure Map	Lock	Barriers
Access Point(s)				1						
Alpha										
Beta										
Gamma										

TABLE 2: Signage Summary (Proposed)

1.3 List of Documents used to prepare this Report

- *876316_599668 - 21 Acorn Road CD*
- *876316_599668 - 21 Acorn Road RFDS*

2. Site Scale Map



AT&T Antenna	Proposed	Proposed Signage									
Panel	Barrier	Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	***Map Scale = 10 ft***
OMNI	Posts										

3. Antenna Inventory

Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (0)	HBW (0)	Antenna Gain (dBd)	Antenna Aperture (ft)	Transmitter Power (Watts)	Total Loss (dB)	Total ERP (Watts)	Total EIRP (Watts)
A2	AT&T	CCI	TPA65R-BU4D	Panel	700	LTE(FN)	23	74	11.15	4	120.00	0.5	1393.74	2286.55
A2	AT&T	CCI	TPA65R-BU4D	Panel	1900	LTE/5G	23	66	14.95	4	120.00	0.5	3343.35	5485.06
A2	AT&T	CCI	TPA65R-BU4D	Panel	2100	LTE/5G	23	66	15.05	4	180.00	0.5	5131.83	8419.23
A3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	23	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
A3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	23	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
A4	AT&T	CCI	DMP65R-BU4D	Panel	700	LTE(B12)	23	75	10.55	4	120.00	0.5	1213.90	1991.50
A4	AT&T	CCI	DMP65R-BU4D	Panel	850	5G	23	67	10.85	4	120.00	0.5	1300.71	2133.94
A4	AT&T	CCI	DMP65R-BU4D	Panel	2300	LTE	23	57	15.05	4	75.00	0.5	2138.26	3508.01
B2	AT&T	CCI	TPA65R-BU4D	Panel	700	LTE(FN)	165	74	11.15	4	120.00	0.5	1393.74	2286.55
B2	AT&T	CCI	TPA65R-BU4D	Panel	1900	LTE/5G	165	66	14.95	4	120.00	0.5	3343.35	5485.06
B2	AT&T	CCI	TPA65R-BU4D	Panel	2100	LTE/5G	165	66	15.05	4	180.00	0.5	5131.83	8419.23
B3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	165	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
B3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	165	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
B4	AT&T	CCI	DMP65R-BU4D	Panel	700	LTE(B12)	165	75	10.55	4	120.00	0.5	1213.90	1991.50
B4	AT&T	CCI	DMP65R-BU4D	Panel	850	5G	165	67	10.85	4	120.00	0.5	1300.71	2133.94
B4	AT&T	CCI	DMP65R-BU4D	Panel	2300	LTE	165	57	15.05	4	75.00	0.5	2138.26	3508.01
C2	AT&T	CCI	TPA65R-BU4D	Panel	700	LTE(FN)	263	74	11.15	4	120.00	0.5	1393.74	2286.55
C2	AT&T	CCI	TPA65R-BU4D	Panel	1900	LTE/5G	263	66	14.95	4	120.00	0.5	3343.35	5485.06
C2	AT&T	CCI	TPA65R-BU4D	Panel	2100	LTE/5G	263	66	15.05	4	180.00	0.5	5131.83	8419.23
C3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	263	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
C3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	263	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
C4	AT&T	CCI	DMP65R-BU4D	Panel	700	LTE(B12)	263	75	10.55	4	120.00	0.5	1213.90	1991.50
C4	AT&T	CCI	DMP65R-BU4D	Panel	850	5G	263	67	10.85	4	120.00	0.5	1300.71	2133.94
C4	AT&T	CCI	DMP65R-BU4D	Panel	2300	LTE	263	57	15.05	4	75.00	0.5	2138.26	3508.01

Table 3.1: Antenna Inventory Table

Note: **^ Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.**

* 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor[1] are used to calculate Transmitter Power & ERP/EiRP

Antenna Heights (Z)

Ant ID	Operator	Antenna Radiation Centerline	Z-Height from Adj. bldg-2	Z-Height from Ground
A2	AT&T	105.00	84.00	103.00
A3-1	AT&T	106.75	86.48	105.48
A3-2	AT&T	103.25	82.98	101.98
A4	AT&T	105.00	84.00	103.00
B2	AT&T	105.00	84.00	103.00
B3-1	AT&T	106.75	86.48	105.48
B3-2	AT&T	103.25	82.98	101.98
B4	AT&T	105.00	84.00	103.00
C2	AT&T	105.00	84.00	103.00
C3-1	AT&T	106.75	86.48	105.48
C3-2	AT&T	103.25	82.98	101.98
C4	AT&T	105.00	84.00	103.00

Table 3.2: Antenna Height(s) Summary Table

4. Predicted Emission

4.1 Predictive Cumulative MPE Contribution from All Sources at Antennas Centerline Level (105 ft.)

Max. Predictive Spatial Average MPE% = **19626.8%**

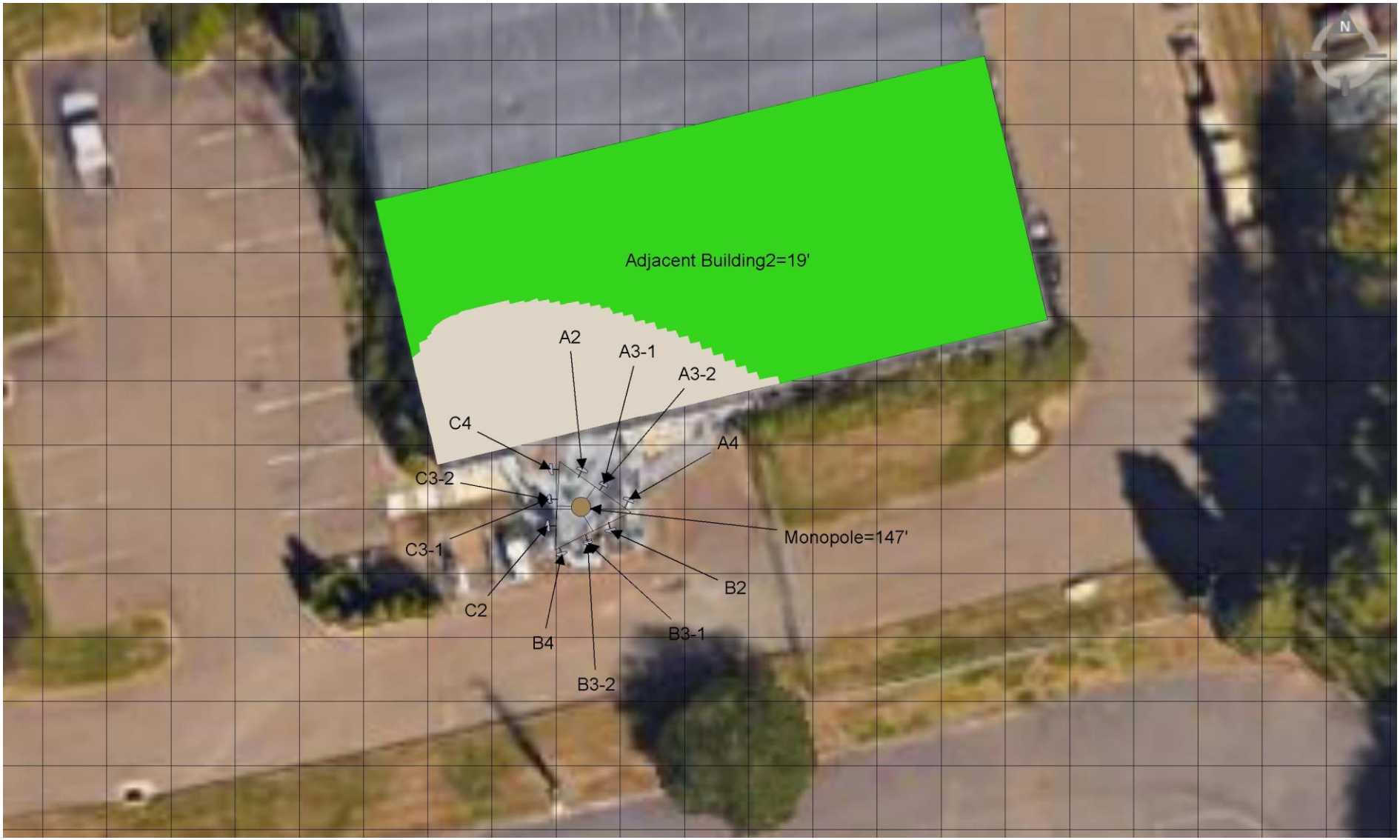
Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.2 Predictive Cumulative MPE Contribution from All Sources at Adjacent Building2 Level (19 ft.)



Max. Predictive Spatial Average MPE% = **3.0%**

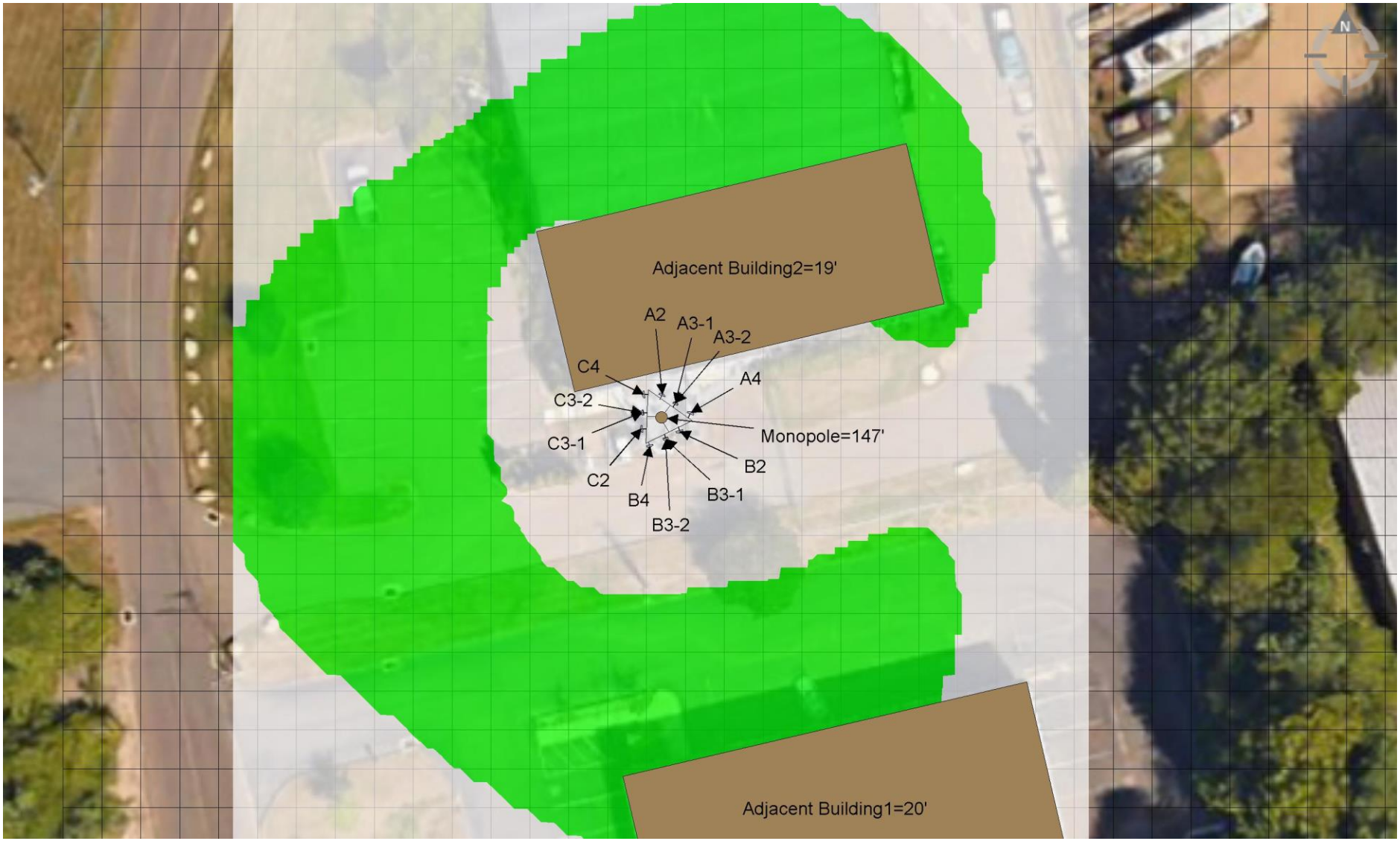
Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

4.3 Predictive Cumulative MPE Contribution from All Sources at Ground Level (0 ft.)



Max. Predictive Spatial Average MPE% = **2.1%**

Proposed Barrier
Proposed Posts

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Map Scale = 10 ft

5. Statement of Compliance

5.1 Statement of AT&T Mobility Compliance

At the time of our Analysis, AT&T Mobility is required to take action to fulfill their Obligations to comply with the FCC's mandate as defined in OET-65

Recommendations

AT&T Alpha Sector:

- No Action Required

AT&T Beta Sector:

- No Action Required

AT&T Gamma Sector:

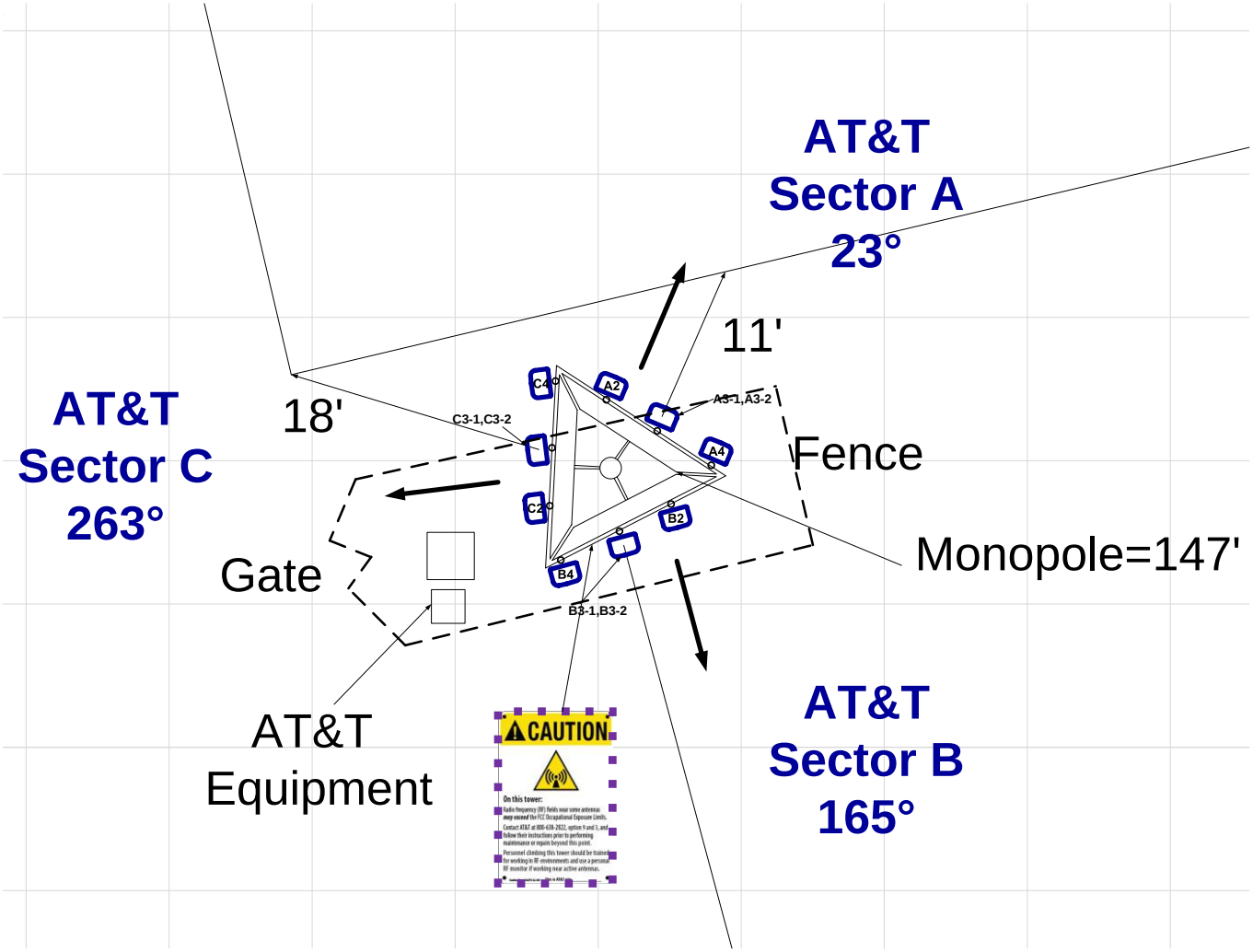
- No Action Required

Monopole:

- One Caution 2B Sign to be posted on the Monopole at climbing access, facing outwards so approaching people can see as shown in "Recommendations Map – Detailed View" on page 11. (1 Total Sign)

Recommendations Map – Detailed View

AT&T Alpha, Beta & Gamma Sectors



AT&T Antenna		Proposed		Proposed Signage									Map Scale = 10 ft
				Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	
	Panel	Barrier											
	OMNI	Posts											

Appendix A – Statement of Limiting Conditions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at full power at all times. AT&T has further recommended to assume a 75% duty cycle of maximum radiated power for all LTE & 5G carriers (& consider 100% duty cycle for all UMTS carriers).

In this site compliance report, it is assumed that Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS^ antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.

AT&T recommended to consider - For C-BAND and/or DoD AAS^ antenna(s) 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor[1] are used to calculate Transmitter Power & ERP/EiRP.

AT&T recommended to use worst-case tilts for the simulations.

*[1] **Power Reduction Factor**: IEC Standard 62232: 2017 allows for a statistically conservative power density model to more realistically define the RF exposure area. AT&T recommends a "0.32" factor to calculate the "Actual Maximum" (time averaged) power value, which accounts for "Beam Scanning," "Scheduling," and "RBS Utilization" This recommended value is a conservative figure modelled and supported by other vendors and through measurements published in scientific articles and white papers by IEEE and others. Those publication are listed below:*

1. IEEE Access, Time-Averaged Realistic Maximum Power Levels for the Assessment of RF Exposure for 5G Radio Base Stations Using Massive MIMO (Published Sept. 18, 2017 / BJÖRN THORS, ANDERS FURUSKÄR, DAVIDE COLOMBI, AND CHRISTER TÖRNEVIK)
2. IEEE Explore, A Statistical Approach for RF Exposure Compliance Boundary Assessment in Massive MIMO Systems (Published Jan. 25, 2018 / Paolo Baracca, Andreas Weber, Thorsten Wild, Christophe Grangeat)
3. IEEE Access, In-situ Measurement Methodology for the Assessment of 5G NR Massive MIMO Base Station Exposure at Sub-6 GHz Frequencies (Published Dec. 20, 2019 / SAM AERTS, LEEN VERLOOCK, MATTHIAS VAN DEN BOSSCHE, DAVIDE COLOMBI, LUC MARTENS, CHRISTER TÖRNEVIK AND WOUT JOSEPH)
4. Applied Sciences, Analysis of the Actual Power and EMF Exposure from Base Stations in a Commercial 5G Network (Published July 30, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)
5. Ofcom Technical Report, Electromagnetic Field (EMF) measurements near 5G mobile phone base stations (Published Feb. 21, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)

MobileComm believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor). Thus, at any time, if power density measurements were made, we believe the real time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modelling in this way, MobileComm has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Other Carrier" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, MobileComm uses the closest frequency in the antenna's range that corresponds to the highest Maximum Exposure Limit (MPE), resulting in a conservative analysis.

Appendix B – FCC Guidelines and Emissions Threshold Limits

All power density values used in this report were analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (µW/cm2).The number of µW/cm2 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 public 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 public 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 (µW/cm2). The general population exposure limit for the 700 and 800 MHz Bands is approximately 467 µW/cm2 and 567 µW/cm2 respectively, and the general population exposure limit for the 1900 MHz PCS and 2100 MHz AWS bands is 1000 µW/cm2. 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, have been properly trained in RF safety 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, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-I,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $[E]^2$, $[H]^2$, or S (minutes)**
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-I,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations.

A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- *are exposed to RF energy as a consequence of their employment;*
- *have been made aware of the possibility of exposure; and*
- *can exercise control over their exposure.*

FCC guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

Appendix D – General Safety Recommendations

The following are general recommendations appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.

2. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:

- *adding new antennas that may have been located on the site*
- *removing of any existing antennas*
- *changes in the radiating power or number of RF emitters*

3. Post the appropriate SAFETY INSTRUCTIONS, NOTICE, CAUTION & WARNING sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in the report section above, to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. The signs below are examples of signs meeting FCC guidelines.

4. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.

5. For a General Public environment the five color levels identified in measured RF emission diagram can be interpreted in the following manner:

- *White represents areas predicted to be greater than or equal to 0% and less than 1% of the MPE general public limits*
- *Green represents areas predicted to be greater than or equal to 1% and less than 100% of the MPE general public limits*
- *Blue represents areas predicted to be greater than or equal to 100% and lesser than 500% of the MPE general public limits.*
- *Yellow represents areas predicted to be greater than or equal to 500% and lesser than 5000% of the MPE general public limits.*
- *Red areas indicates predicted levels greater than or equal to 5000% of the MPE general public limits.*

Appendix E – References

1 - FCC Definition

FCC defines an Occupational or Controlled environment as one where persons are exposed to RF fields as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Typical criteria for an Occupational or Controlled environment is restricted access (i.e. locked doors, gates, etc.) to areas where antennas are located coupled with proper RF warning signage.

FCC defines a site as a General Public or Uncontrolled environment when human exposure to RF fields occurs to the general public or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over the exposure. Typical criteria for a General Public or Uncontrolled environment are unrestricted access (i.e. unlocked or no restrictions) to areas where antennas are located without proper RF warning signage being posted.

2 - Physical Testing measurement procedure and Tools

The Narda Broadband Field Meter NBM-550 can make rapid conformance measurements with evaluation in the time domain when used in conjunction EA5091 probe. This probe is a so-called Shaped Probe, i.e. it is frequency weighted so that it automatically takes account of the FCC Occupational limit values. To collect data, the probe is pointed towards the potential source(s) of EME radiation and moved slowly from ground level up to slightly above head height (approx. 6 ft).

Spatial Average Measurement A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.

3 - Site Safety Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: *Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.*

Training and Qualification Verification: *All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).*

Physical Access Control: *Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:*

- *Locked door or gate*
- *Alarmed door*
- *Locked ladder access*
- *Restrictive Barrier at antenna locations (e.g. Chain link with posted RF Sign)*

RF Signage: *Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.*

Assume all antennas are active: *Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.*

Maintain a 3 foot clearance from all antennas: *There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.*

Rooftop RF Emissions Diagram: *Section 4 of this report contains an RF Emissions Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas on the rooftop. This analysis is all theoretical and assumes a duty cycle of 75% for each transmitting antenna at full power. This analysis is a worst case scenario. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.*

4 - Definitions

Compliance- *The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.*

Decibel (dB) – *A unit for measuring power or strength of a signal.*

Duty Cycle – *The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 75% corresponds to continuous operation.*

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – *The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna, this product is divided by the cable losses*

Effective Radiated Power (ERP) – *In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.*

Gain (of an antenna in dbd) – *The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from a reference dipole. Gain is a measure of the relative efficiency of a directional antennas as compared to a reference dipole.*

General Population/Uncontrolled Environment – *Defined by the FCC, as an area where RFR exposure may occur to persons who are unaware of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.*

Generic Antenna – *For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.*

Isotropic Antenna – *An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.*

Maximum Measurement – *This measurement represents the single largest measurement recorded when performing a spatial average measurement.*

Maximum Exposure Limit (MPE) – *The RMS and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.*

Occupational/Controlled Environment – *Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are aware of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.*

Radio Frequency Radiation – *Electromagnetic waves that are propagated from antennas through space.*

Spatial Average Measurement – *A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.*

Transmitter Power Output (TPO) – *The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.*

Appendix F – Proprietary Statement

This report was prepared for the use of AT&T Mobility, LLC to meet requirements specified in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by MobileComm are based solely on the information provided by AT&T Mobility and all observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to MobileComm so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

Date: **March 23, 2022**

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
mhoudeshell@podgrp.com

Subject:	**Mount Analysis**	
Carrier Designation:	**AT&T Mobility**	
	Carrier Site Number:	**CTL02014**
	Carrier Site Name:	**SECONDINO PROPERTY**
	FA Number:	**10035270**
Crown Castle Designation:	**Crown Castle BU Number:**	**876316**
	Crown Castle Site Name:	**SECONDINO PROPERTY**
	Crown Castle JDE Job Number:	**700483**
	Crown Castle Order Number:	**599668 Rev.0**
Engineering Firm Designation:	**POD Report Designation:**	**22-124731**
Site Data:	**21 Acorn Road, Branford, New Haven County, CT 06405**	
	Latitude 41° 17' 35.06" Longitude -72° 45' 46.40"	
Structure Information:	**Tower Height & Type:**	**147 ft Monopole**
	Mount Elevation:	**106 ft**
	Mount Type:	**14 ft Platform with Support Rails**

POD Group 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:

14 ft Platform with Support Rails (Multiple Sector) **Sufficient**

This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 122 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Angelin Chittilappilly

Respectfully submitted by:

3/23/22

Jason Cheronis, PE
Connecticut PE#: 0032793

TABLE OF CONTENTS

1) INTRODUCTION

This is an existing 14 ft Platform with Support Rails.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	122 mph
Exposure Category:	C
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.203
Seismic S_1:	0.054
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	Note
106	106	3	ERICSSON	AIR 6449 B77D_CCVI2	14 ft Platform with Support Rails	1
	105	3	CCI ANTENNAS	DMP65R-BU4D		-
		3	CCI ANTENNAS	TPA65R-BU4D		
		3	ERICSSON	RADIO 4449 B5/B12		
		3	ERICSSON	RRUS 32 B2_CCIV2		
		3	ERICSSON	RRUS 32 B30		
		3	ERICSSON	RRUS 4426 B66		
		3	ERICSSON	RRUS 4478 B14		
		4	RAYCAP	DC6-48-60-18-8F		
	104	3	ERICSSON	AIR 6419 B77G		1

Notes:
1) Proposed equipment is to be installed on the same mount pipe with more than 12" of vertical separation

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App #: 599668 Rev.0 Dated: 03/16/2022	Crown Castle
Scoping Form	-	AT&T Mobility BU#: 876316	Crown Castle
Structural Analysis	-	Crown Castle Report #: 1964043 Dated: 09/23/2021	Crown Castle
Specification Sheets	-	SitePro1 Part #: G58R-12	Sitepro1
Previous Mount Analysis	-	POD Project #: 20-70485 Dated: 10/13/2020	POD
Proposed base level Drawing	-	Crown Castle Sheet# A1-106 Dated: 03/20/2022	Crown Castle

3.1) Analysis Method

RISA-3D (Version 17.0.4), 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. Selected output from the analysis are included in the Appendices.

A tool internally developed, using Microsoft Excel, by POD Group, was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the calculations is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision E). In addition, this analysis is in accordance with AT&T's mount technical directive.

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications. This is not a condition assessment of the mount, structure, or foundation.
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 weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure. POD Group does not analyze the fabrication of the mount or structure (including welding).
6) All structural members shall be verified in accordance with AT&T Mount Technical Directive.
7) 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.
8) To achieve the desired standoff for the mount pipes in position4, sitepro1 (P/N: G58R-12) threaded rods were assumed to be used.
9) Based on the review, POD Group believes this mount is SUMMIT, Drawing # 50003.
10) Steel grades have been used as follows, unless noted otherwise:
    a. Channel, Angle, Plate — ASTM A36 (GR 36)
    b. Threaded Rods — SAE J429 (GR 2)
    c. HSS (Rectangular) — ASTM 500 (GR B Rect)
    d. Pipe — ASTM A53 (GR 35)
    e. Connection Bolts — ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD Group should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (14 ft Platform with Support Rails)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1,2	Face	FACE3	106	100.6	Pass
1	Rail	RAIL1		48.7	Pass
	Standoff	SO1		43.1	Pass
	Corner	CR1		55.2	Pass
	Mount Pipe	MP ALPHA3		50.8	Pass
	Solid Round	BAR7		67.4	Pass
	Angle	ANGLE1		42.3	Pass
	Kicker	KICKER1		17.6	Pass
	Kicker Flange Plate Bolts	-		5.9	Pass
	Kicker Flange Plate	-		65.1	Pass

Structure Rating (max from all components) =	**100.6%**

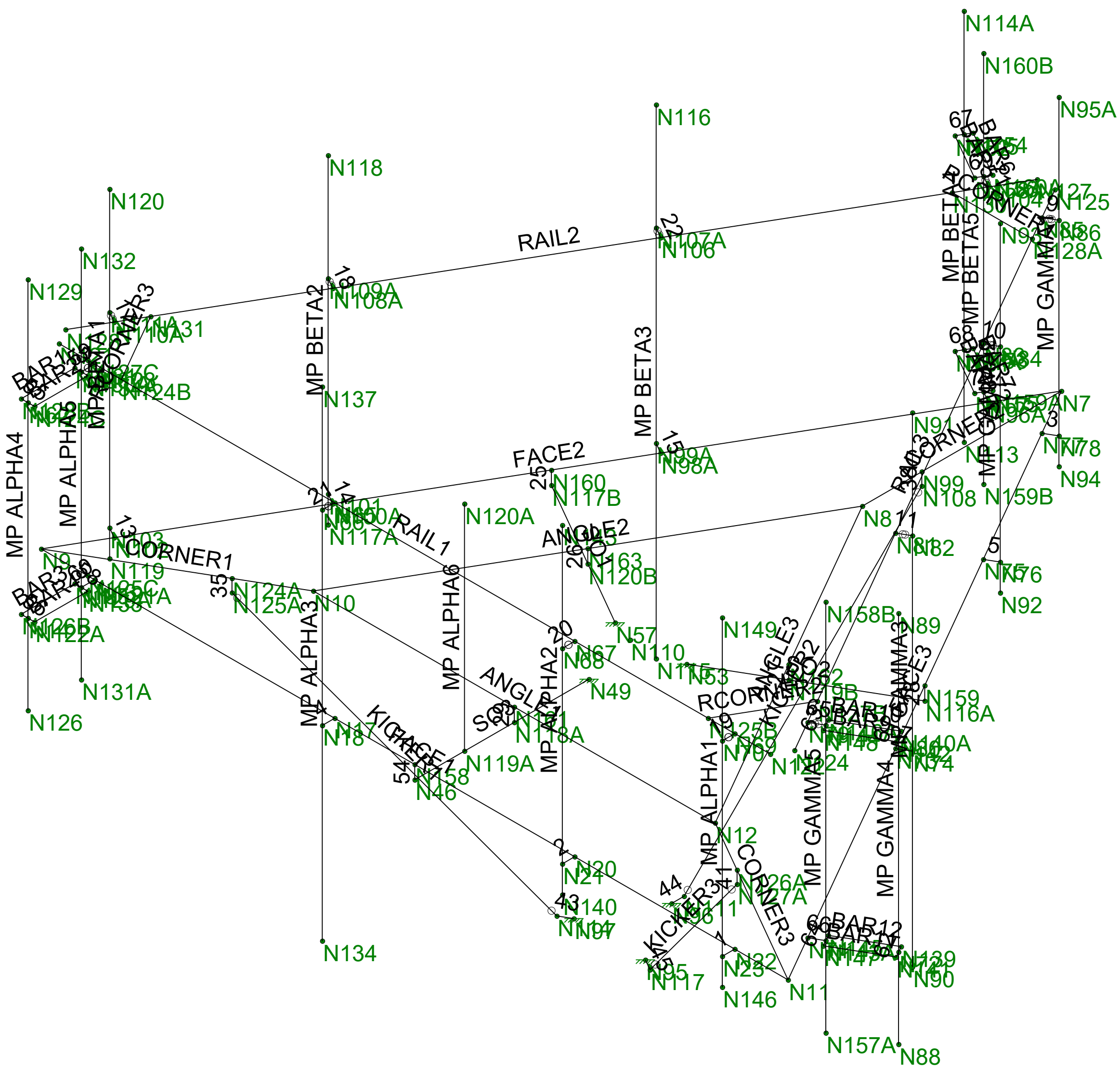
Notes:
1) See additional documentation in “Appendix C – Software Analysis Output” and “Appendix D – Additional Calculations” for calculations supporting the % capacity
2) A structure rating of 105% or less is within engineering tolerances and considered acceptable.

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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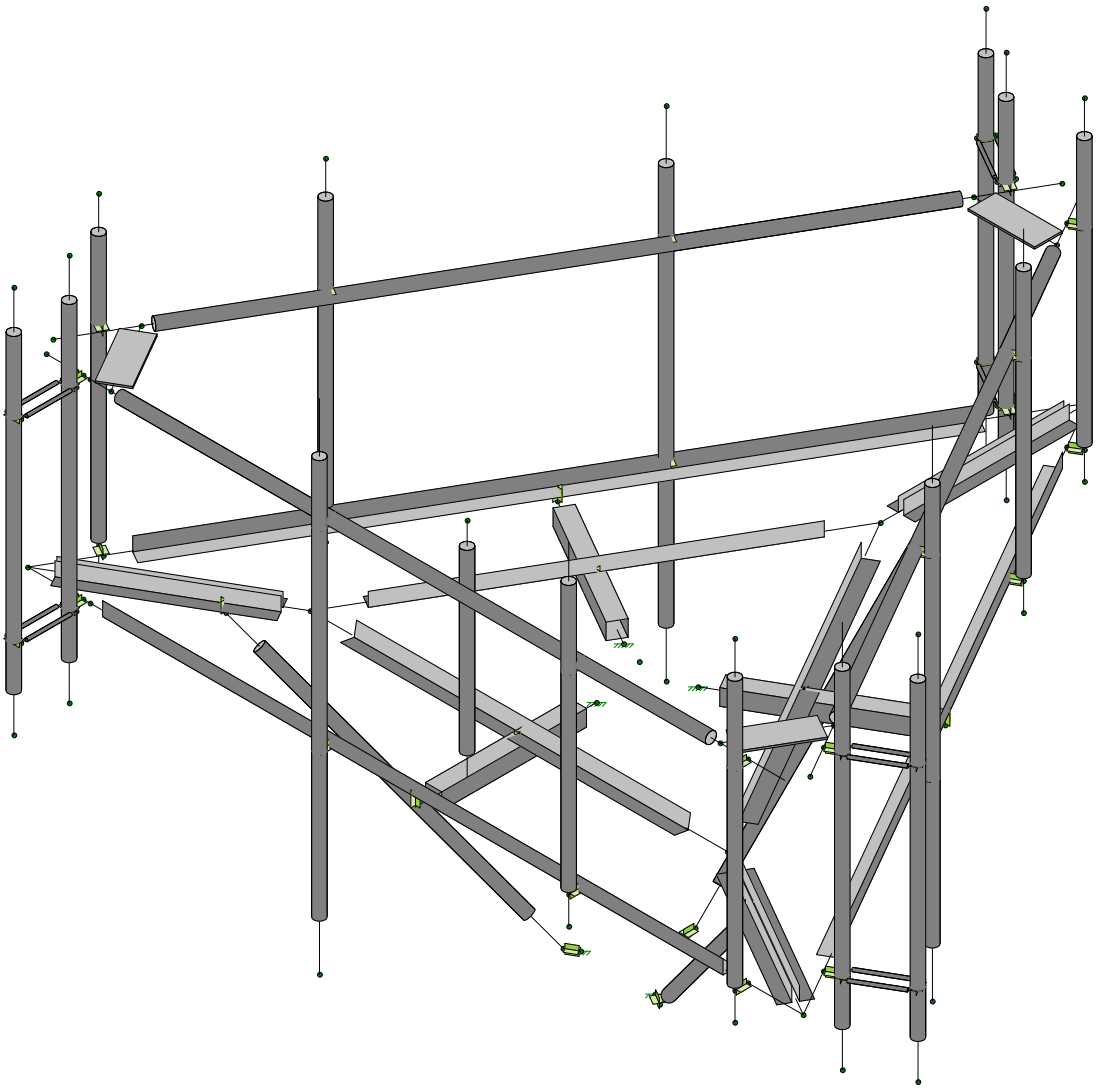

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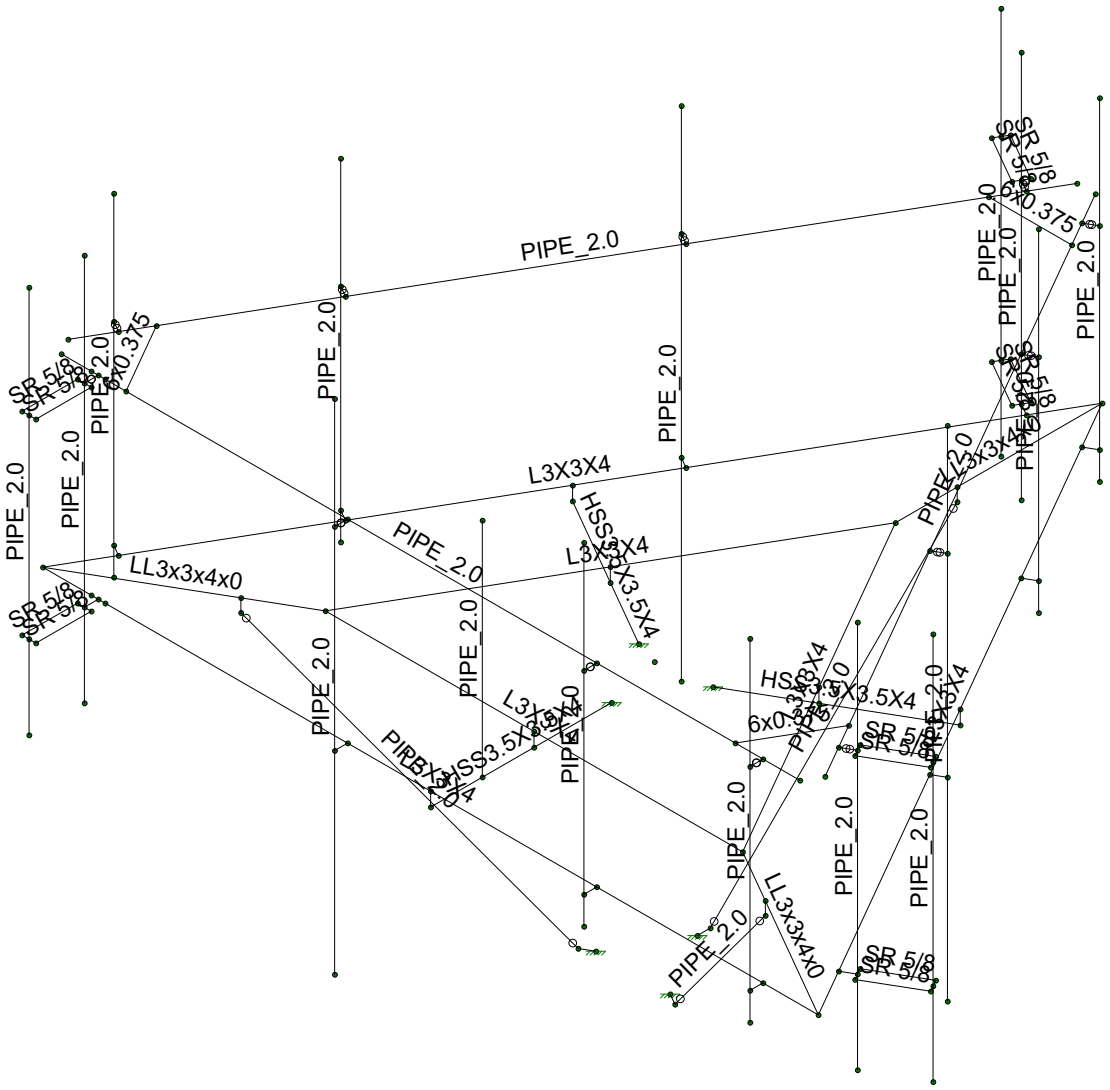

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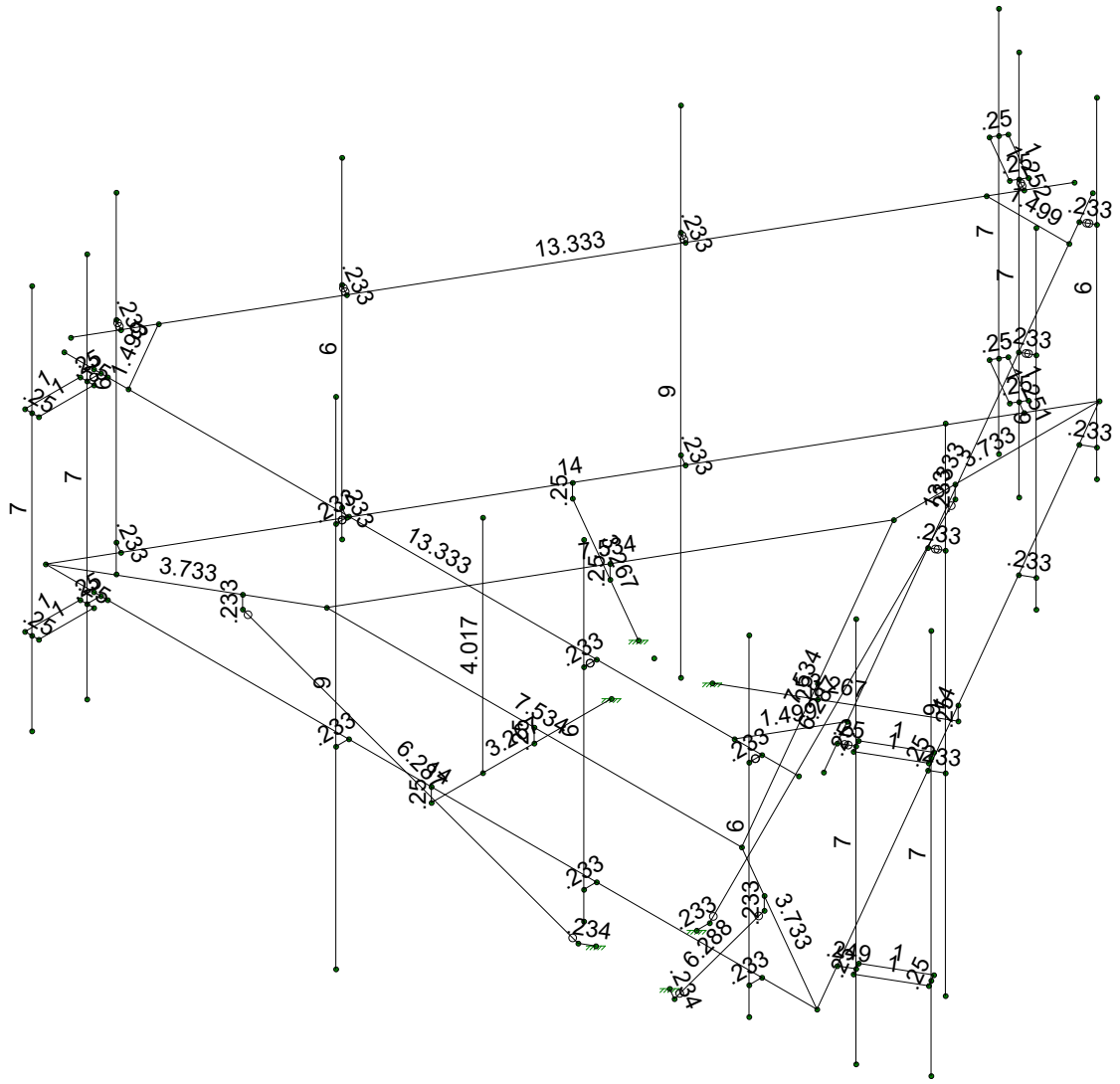

Member Length (ft) Displayed

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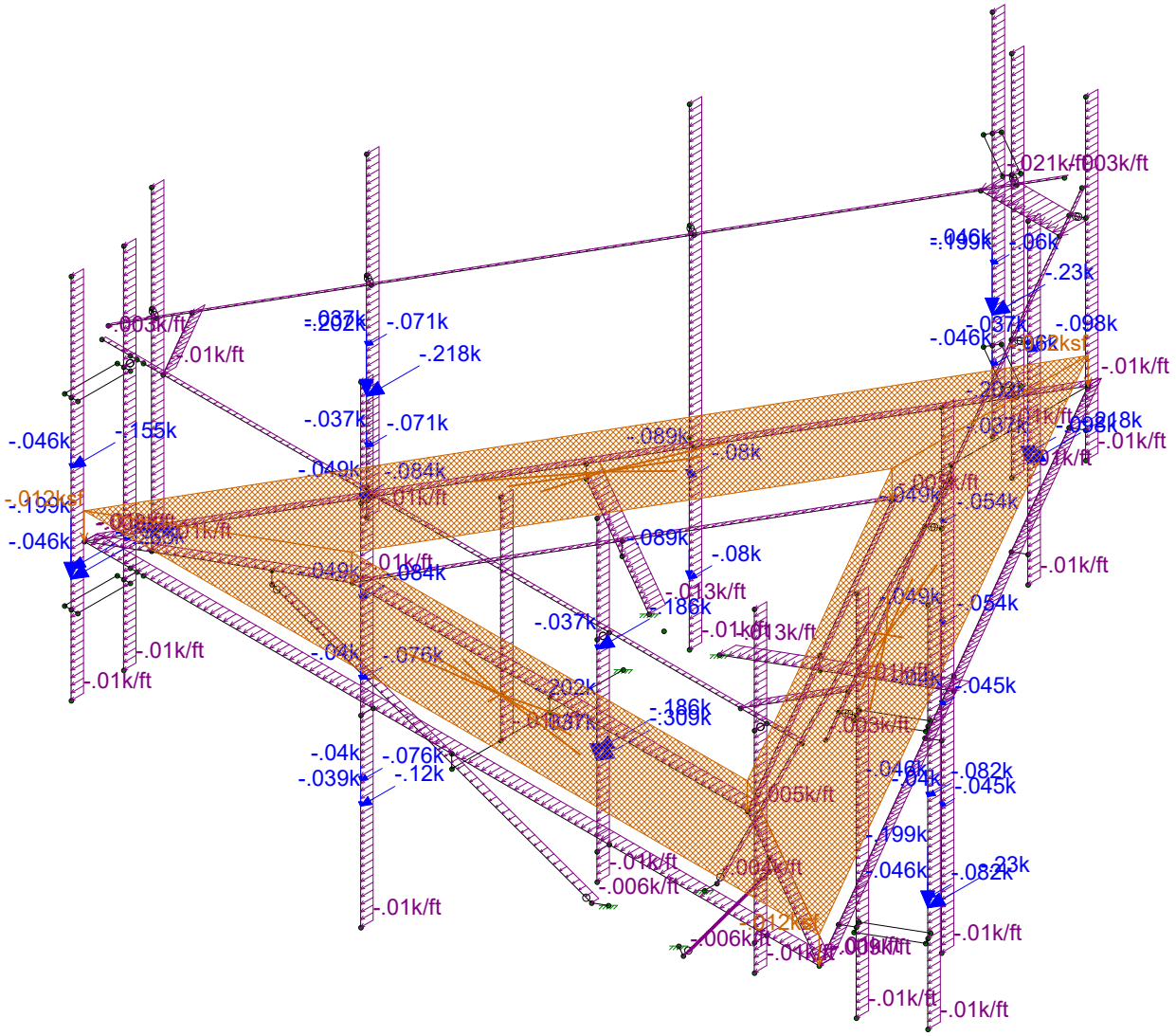

Loads: LC 2, 1.2D + 1.0W(0)

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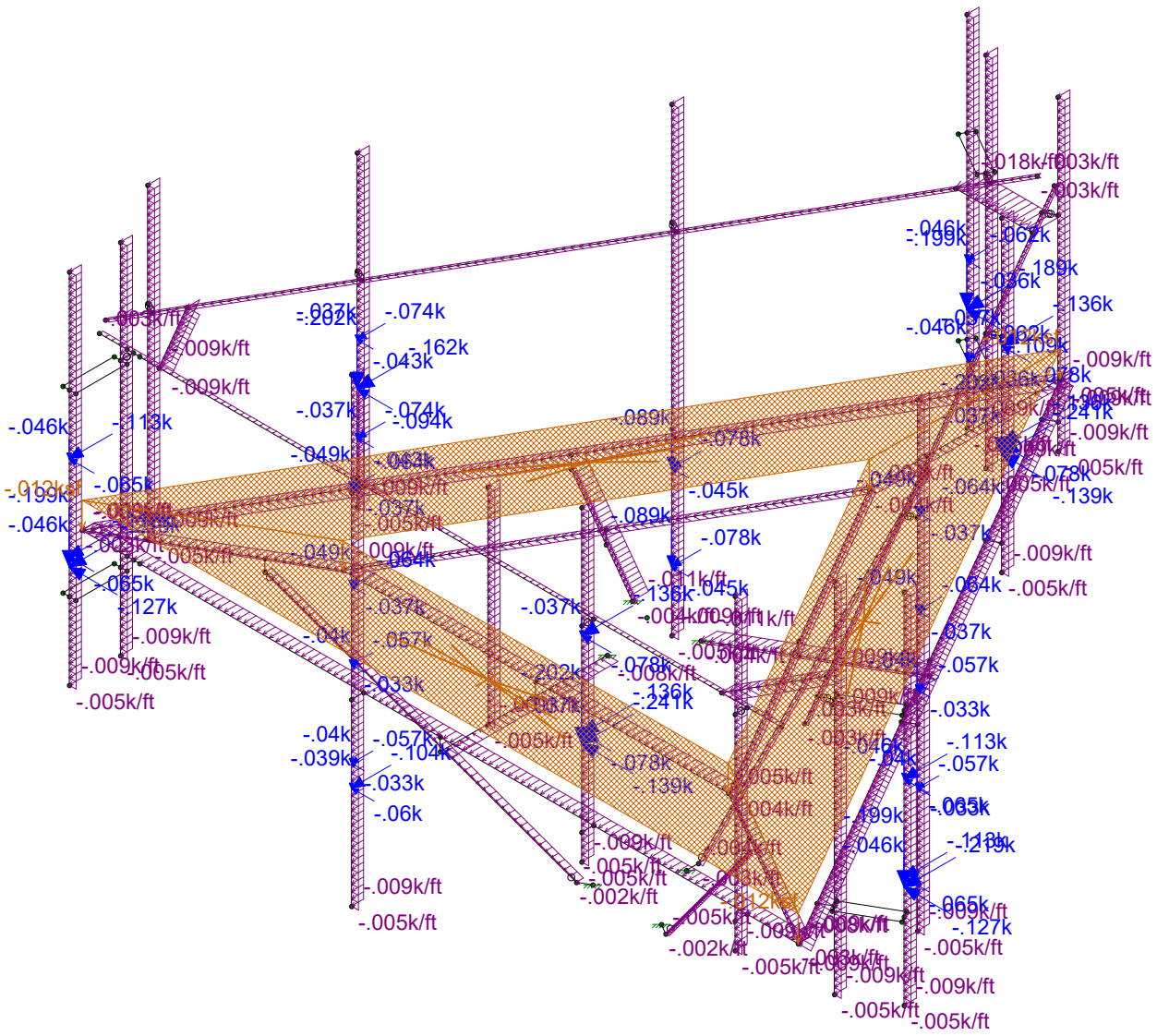

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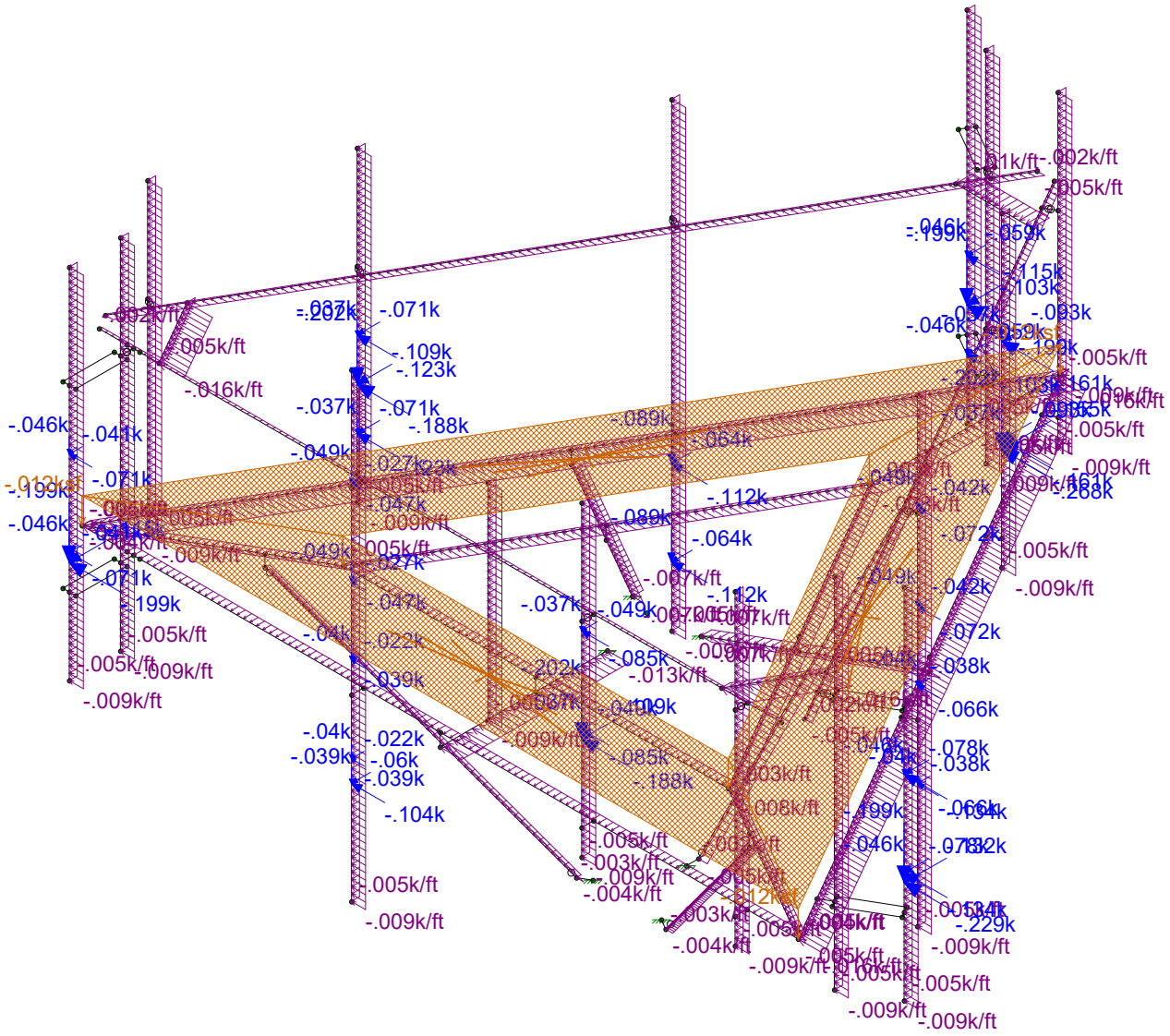

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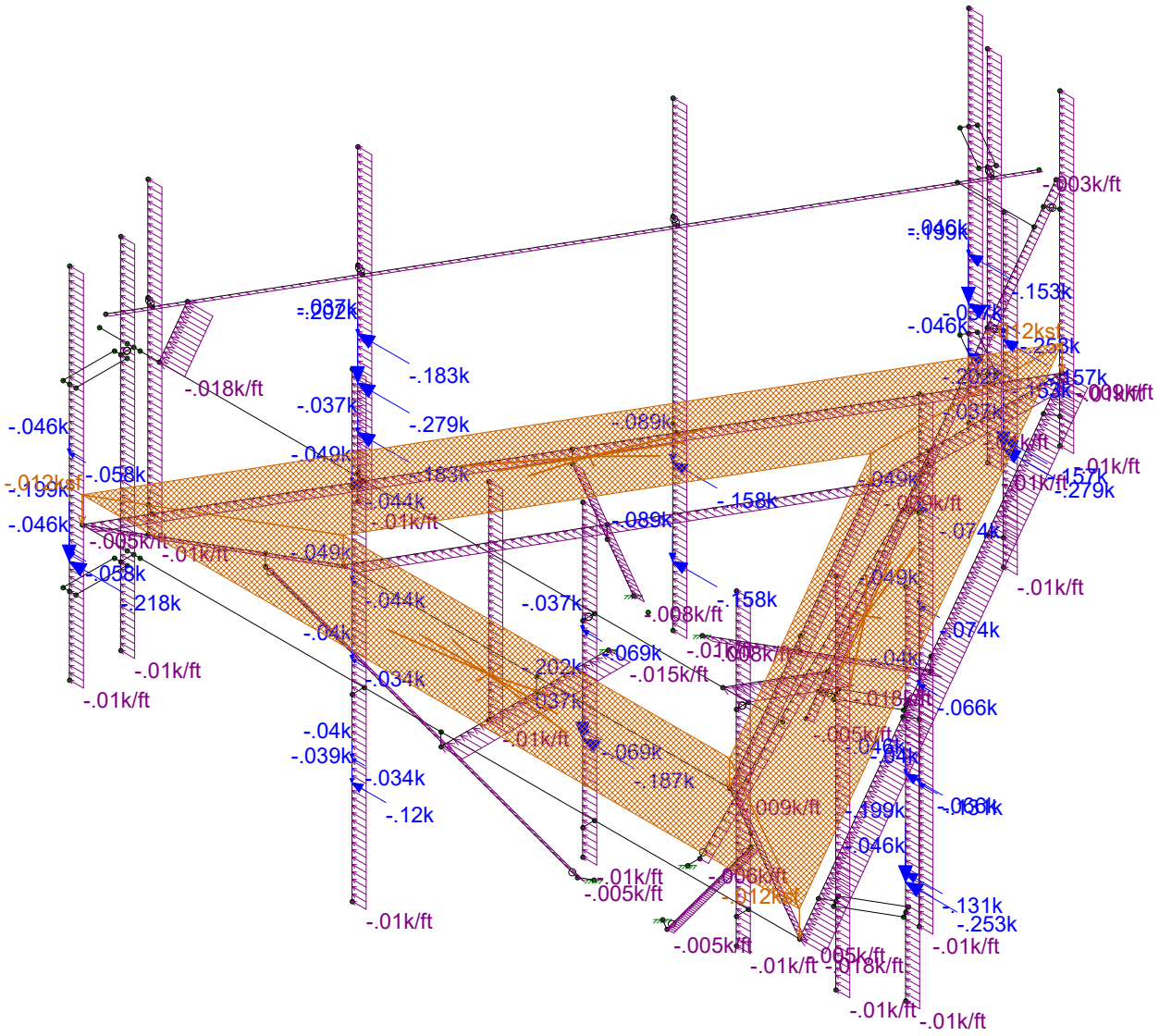

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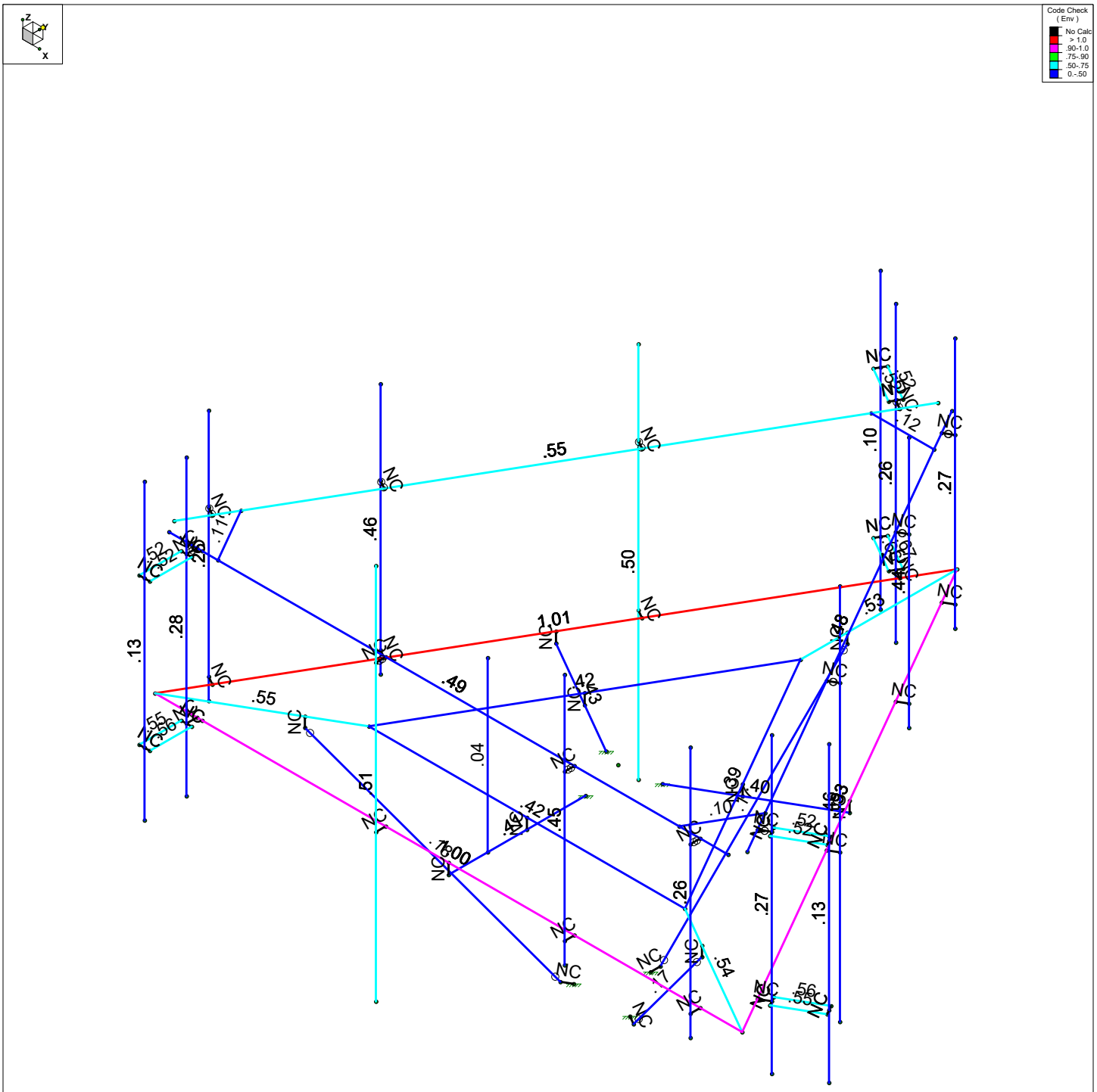

Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

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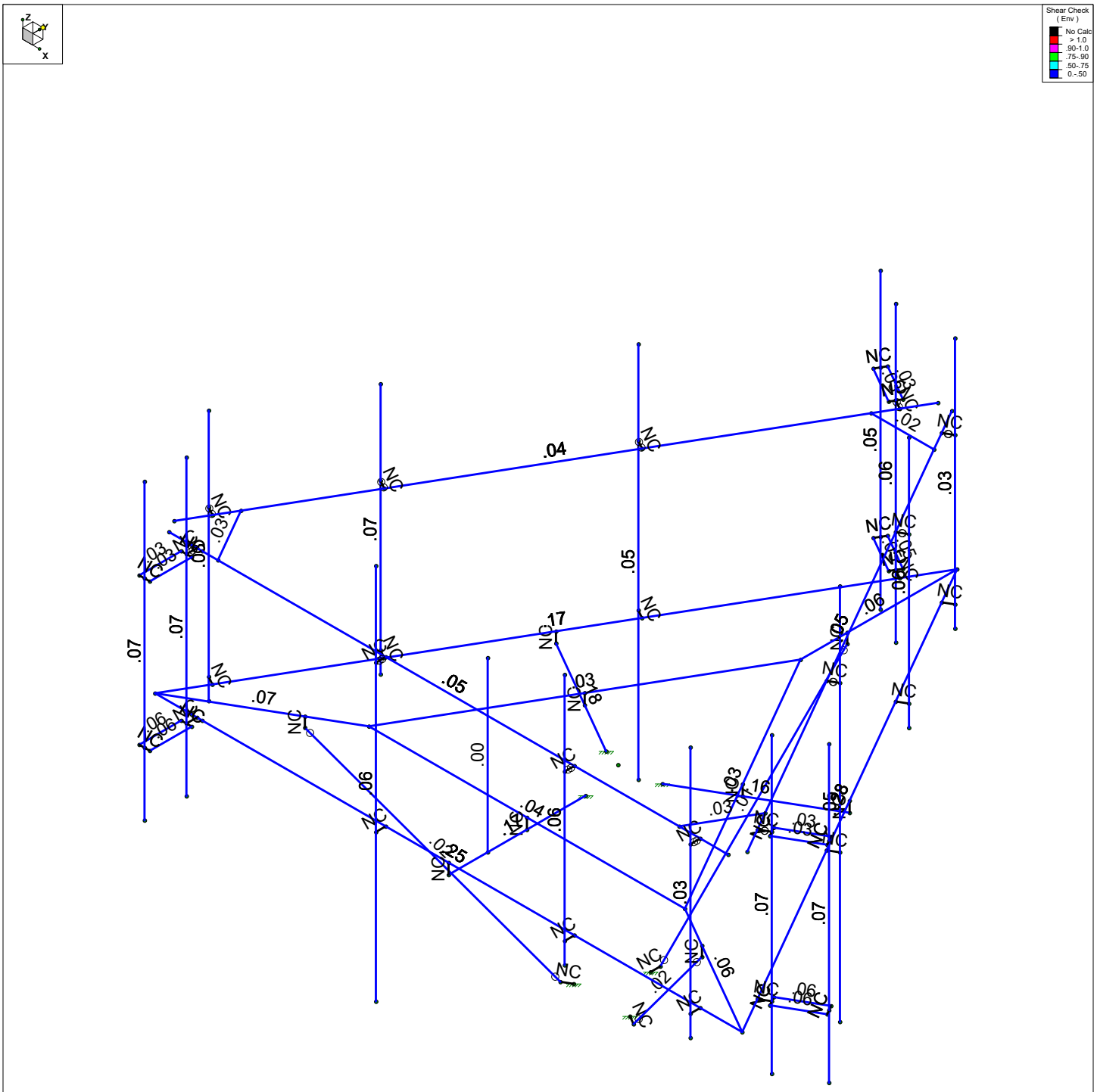
AC		Mar 23, 2022 at 11:44 AM
22-124731		876316.R3D



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.4D

POD	876316	SK - 10
AC		Mar 23, 2022 at 11:44 AM
22-124731		876316.R3D

APPENDIX B

Software Input Calculations

POD Job #	**22-124731**
Site Number	**876316**
Site Name	**SECONDINO PROPERTY**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1			Use CFD	Yes
V (Wind Speed)	122	I(ice)	1	Sms	0.325				
Zs	115			Sm1	0.130				width (ft) height (ft)
ti	1	Ss	0.203	Sds	0.217			Front Outer Dimensions	14 3.5
Vi	50	S1	0.054	Sd1	0.086				
Kzt	1	Soil Site Class	D (assumed)	Seismic Design Category					
Exposure	C	Fa	1.600		B				
zg	900	Fv	2.400	Seismic Analysis Not Required					
α	9.5			R	2	TIA-222-H 16.7			
Kmin	0.85	Tower Type	Monopole	As	1	TIA-222-H 16.7			
G_H	1	Tower Height	147	Cs, Min	0.03	TIA-222-H 2.7.7.1.1			
Ke	1.00			Cs	0.108266667	TIA-222-H 2.7.7.1.1			
K_D	0.95								
K_a	0.9								

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity	MP #
DMP65R-BU4D			105	3	20		A/C	1	4
TPA65R-BU4D			105	3	20		A/C	1	2
AIR 6419 B77G			104	3.25	20		A/C	1	3
AIR 6449 B77D_CCVI2			106	6.25	20		A/C	1	3
RADIO 4449 B5/B12			105	2			A/B/C	1	4
RRUS 32 B2_CCIV2			105	2			A/B/C	1	2
RRUS 32 B30			105	2			A/B/C	1	4
RRUS 4426 B66			105	2			A/B/C	1	2
RRUS 4478 B14			105	2			A/B/C	1	2
DC6-48-60-18-8F			105	2			A/B/C	1	4
DMP65R-BU4D			105	2	20	-22	B	1	4
TPA65R-BU4D			105	2	20	-22	B	1	2
AIR 6419 B77G			104	2	20	-22	B	1	3
AIR 6449 B77D_CCVI2			106	2	20	-22	B	1	3
DC6-48-60-18-8F			105	2			A	1	3

Mount Information

Elevation (ft)	106	Grating Thickness (in)	1
K_z	1.28	Grating Ice Weight (k/ft^2)	0.014
Kiz	1.12		
tiz	1.12		

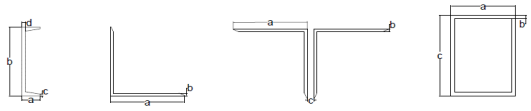
	Length (ft)	Width (in)	Centerline
Mount Pipes	9	2.375	106

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
KICKER	6.287	2.375	Yes	3
RAIL yes	13.333	2.375	Yes	2
RAIL no	13.333	2.375	No	1

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
ANGLE	7.534	3	Angle	3	0.25			No	3
SO	3.267	3.5	Square HSS	3.5	0.25	3.5		Yes	3
CORNER	3.733	3	D. Angle	3	0.25	0		No	3
FACE yes	14	3	Angle	3	0.25			Yes	2
FACE no	14	3	Angle	3	0.25			No	1
RCORNER	1.5	6	Channel	0	6	0	0.375	No	3



Version 3.54

Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft$_z$)	$(EPA)_N$ (ft^2)	$(EPA)_T$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
DMP65R-BU4D	48.0	20.7	7.7	76.5	1.28	46.09	6.74	2.53	0.310	0.116	0.262	0.262	0.116
TPA65R-BU4D	48.0	21.0	7.8	61.6	1.28	46.09	8.06	2.99	0.372	0.138	0.313	0.313	0.138
AIR 6419 B77G	28.0	15.8	6.7	66.2	1.28	46.00	3.30	1.49	0.152	0.068	0.131	0.131	0.068
AIR 6449 B77D_CCVI2	30.4	15.9	8.1	81.6	1.28	46.19	3.62	1.93	0.167	0.089	0.148	0.148	0.089
RADIO 4449 B5/B12	15.0	13.2	10.4	73.0	1.28	46.09	1.48	1.17	0.068	0.054	0.065	0.065	0.054
RRUS 32 B2_CCIV2	27.6	12.5	7.4	55.1	1.28	46.09	2.58	1.60	0.119	0.074	0.108	0.108	0.074
RRUS 32 B30	27.2	12.1	7.0	53.0	1.28	46.09	2.47	1.50	0.114	0.069	0.103	0.103	0.069
RRUS 4426 B66	16.5	13.4	7.7	59.9	1.28	46.09	1.66	0.95	0.076	0.044	0.068	0.068	0.044
RRUS 4478 B14	16.5	13.4	7.7	59.9	1.28	46.09	1.66	0.95	0.076	0.044	0.068	0.068	0.044
DC6-48-60-18-8F	31.3	11.0	11.0	32.8	1.28	46.09	2.61	2.61	0.120	0.120	0.120	0.120	0.120
DMP65R-BU4D	48.0	20.7	7.7	76.5	1.28	46.09	6.74	2.53	0.310	0.116	0.190	0.190	0.144
TPA65R-BU4D	48.0	21.0	7.8	61.6	1.28	46.09	8.06	2.99	0.372	0.138	0.226	0.226	0.171
AIR 6419 B77G	28.0	15.8	6.7	66.2	1.28	46.00	3.30	1.49	0.152	0.068	0.100	0.100	0.080
AIR 6449 B77D_CCVI2	30.4	15.9	8.1	81.6	1.28	46.19	3.62	1.93	0.167	0.089	0.119	0.119	0.100
DC6-48-60-18-8F	31.3	11.0	11.0	32.8	1.28	46.09	2.61	2.61	0.120	0.120	0.120	0.120	0.120

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft$_z$)	$(EPA)_N$ (ft^2)	$(EPA)_T$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
DMP65R-BU4D	1.12	50.25	22.95	9.95	123.65	1.12	7.74	7.82	3.41	0.061	0.026	0.052	0.052	0.026
TPA65R-BU4D	1.12	50.25	23.25	10.05	125.43	1.12	7.74	8.40	3.63	0.065	0.028	0.056	0.056	0.028
AIR 6419 B77G	1.12	30.19	17.99	8.92	61.81	1.12	7.73	2.38	1.21	0.018	0.009	0.016	0.016	0.009
AIR 6449 B77D_CCVI2	1.12	32.64	18.12	10.32	71.58	1.12	7.76	2.59	1.51	0.020	0.012	0.018	0.018	0.012
RADIO 4449 B5/B12	1.12	17.21	15.44	12.68	42.39	1.12	7.74	1.16	0.96	0.009	0.007	0.009	0.009	0.007
RRUS 32 B2_CCIV2	1.12	29.85	14.70	9.66	54.72	1.12	7.74	1.92	1.29	0.015	0.010	0.014	0.014	0.010
RRUS 32 B30	1.12	29.45	14.35	9.25	51.90	1.12	7.74	1.85	1.22	0.014	0.009	0.013	0.013	0.009
RRUS 4426 B66	1.12	18.75	15.65	9.95	39.35	1.12	7.74	1.28	0.82	0.010	0.006	0.009	0.009	0.006
RRUS 4478 B14	1.12	18.75	15.65	9.95	39.35	1.12	7.74	1.28	0.82	0.010	0.006	0.009	0.009	0.006
DC6-48-60-18-8F	1.12	33.50	13.25	13.25	67.90	1.12	7.74	1.95	1.95	0.015	0.015	0.015	0.015	0.015
DMP65R-BU4D	1.12	50.25	22.95	9.95	123.65	1.12	7.74	7.82	3.41	0.061	0.026	0.030	0.030	0.035
TPA65R-BU4D	1.12	50.25	23.25	10.05	125.43	1.12	7.74	8.40	3.63	0.065	0.028	0.032	0.032	0.037
AIR 6419 B77G	1.12	30.19	17.99	8.92	61.81	1.12	7.73	2.38	1.21	0.018	0.009	0.009	0.009	0.012
AIR 6449 B77D_CCVI2	1.12	32.64	18.12	10.32	71.58	1.12	7.76	2.59	1.51	0.020	0.012	0.011	0.011	0.015
DC6-48-60-18-8F	1.12	33.50	13.25	13.25	67.90	1.12	7.74	1.95	1.95	0.015	0.015	0.015	0.015	0.015

Round Members

Member	Wind Calculations q_z (lb/ft^2)	Ar	C	Rr	Cf	EPA (ft^2)	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)
KICKER	46.19	3.73	26.64	0.63	1.20	0.85	0.006	4.62	0.00	7.76	7.27	0.78	1.20	2.05	0.003
RAIL yes	46.19	5.28	26.64	0.63	1.20	1.80	0.006	4.62	0.00	7.76	10.27	0.78	1.20	4.34	0.003
RAIL no	46.19	2.64	26.64	0.63	1.20	1.80	0.003	4.62	0.00	7.76	5.14	0.78	1.20	4.34	0.001

Flat Members

Member	Wind Calculations q_z (lb/ft^2)	Af	Cf	EPA	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
ANGLE	46.19	5.65	2.00	3.39	0.010	5.25	0.01	7.76	9.88	0.78	2.00	4.64	0.002
SO	46.19	2.86	1.25	1.07	0.015	5.75	0.01	7.76	4.69	0.78	1.25	1.38	0.003
CORNER	46.19	2.80	2.00	1.68	0.010	5.25	0.01	7.76	4.90	0.78	2.00	2.30	0.002
FACE yes	46.19	7.00	2.00	6.30	0.021	5.25	0.01	7.76	12.24	0.78	2.00	8.62	0.005
FACE no	46.19	3.50	2.00	6.30	0.010	5.25	0.01	7.76	6.12	0.78	2.00	8.62	0.002
RCORNER	46.19	2.25	2.00	1.35	0.021	8.25	0.01	7.76	3.09	0.78	2.00	1.45	0.004

Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
DMP65R-BU4D	76.5	0.217	1.000	0.108	1.000	0.003	0.008
TPA65R-BU4D	61.6	0.217	1.000	0.108	1.000	0.003	0.007
AIR 6419 B77G	66.2	0.217	1.000	0.108	1.000	0.003	0.007
AIR 6449 B77D_CCVI2	81.6	0.217	1.000	0.108	1.000	0.004	0.009
RADIO 4449 B5/B12	73.0	0.217	1.000	0.108	1.000	0.003	0.008
RRUS 32 B2_CCIV2	55.1	0.217	1.000	0.108	1.000	0.002	0.006
RRUS 32 B30	53.0	0.217	1.000	0.108	1.000	0.002	0.006
RRUS 4426 B66	59.9	0.217	1.000	0.108	1.000	0.003	0.006
RRUS 4478 B14	59.9	0.217	1.000	0.108	1.000	0.003	0.006
DC6-48-60-18-8F	32.8	0.217	1.000	0.108	1.000	0.001	0.004
DMP65R-BU4D	76.5	0.217	1.000	0.108	1.000	0.003	0.008
TPA65R-BU4D	61.6	0.217	1.000	0.108	1.000	0.003	0.007
AIR 6419 B77G	66.2	0.217	1.000	0.108	1.000	0.003	0.007
AIR 6449 B77D_CCVI2	81.6	0.217	1.000	0.108	1.000	0.004	0.009
DC6-48-60-18-8F	32.8	0.217	1.000	0.108	1.000	0.001	0.004

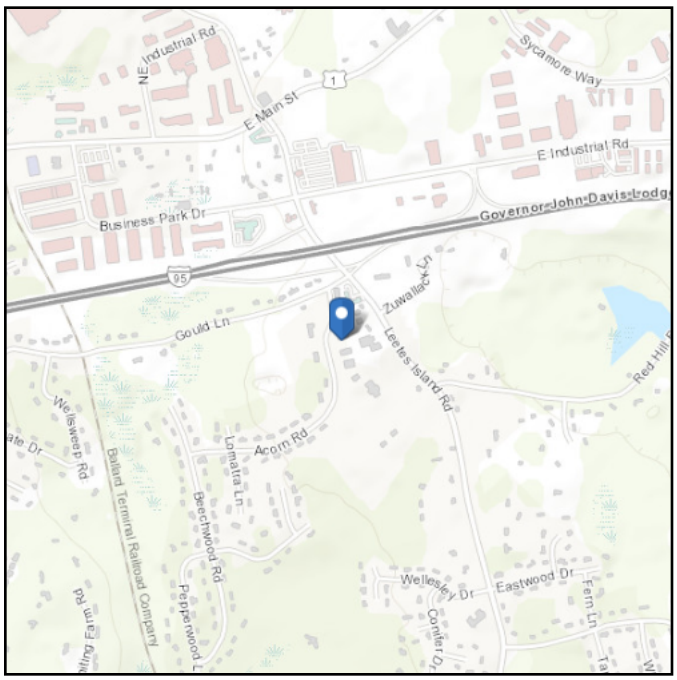
Version 3.54

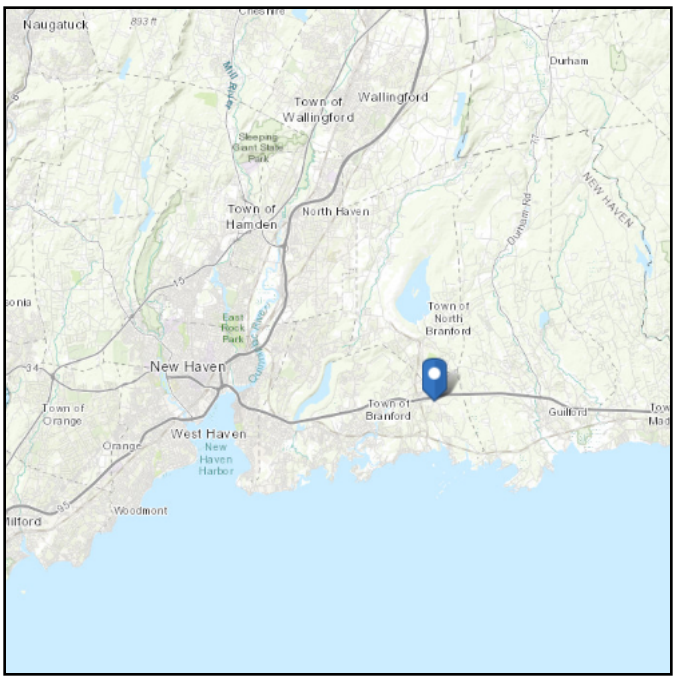
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 115.09 ft (NAVD 88)
Latitude: 41.293072
Longitude: -72.762889





Wind

Results:

Wind Speed	122 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	93 Vmph
100-year MRI	99 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: Fri Mar 18 2022

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

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

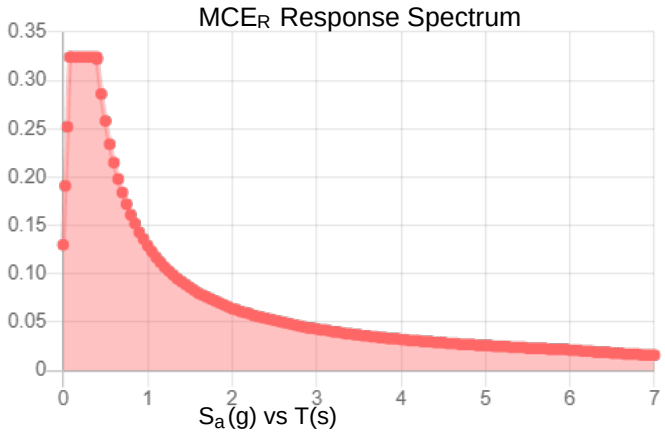
Seismic

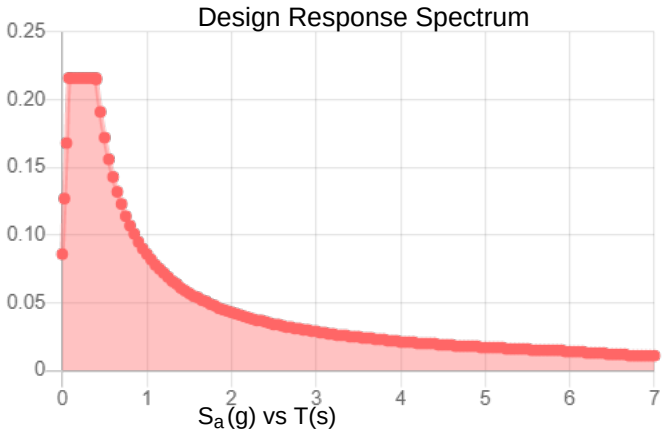
Site Soil Class: D - Default (see Section 11.4.3)

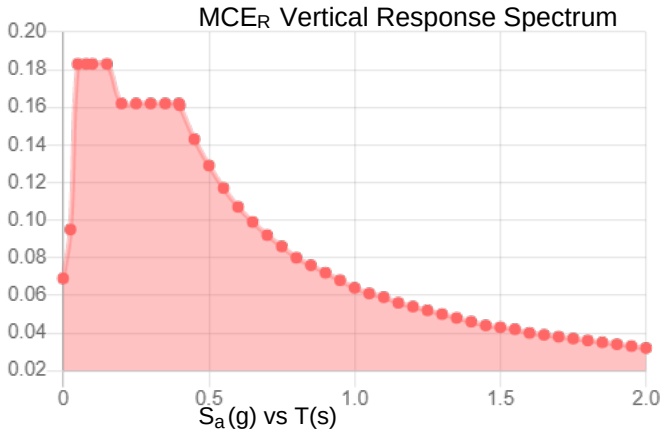
Results:

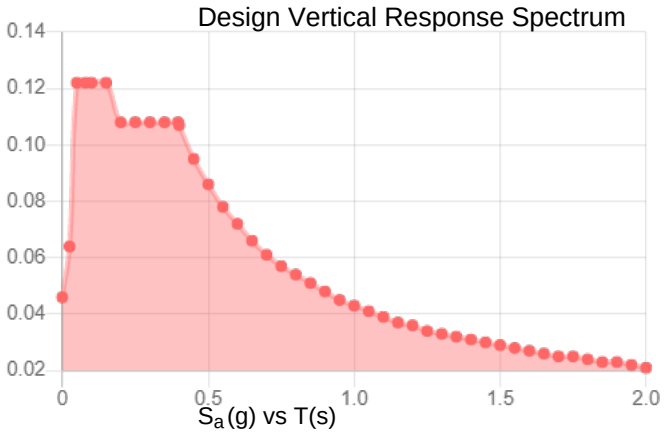
S_S :	0.203	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.113
F_v :	2.4	PGA_M :	0.178
S_{MS} :	0.324	F_{PGA} :	1.573
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.216	C_v :	0.705

Seismic Design Category B









Data Accessed: **Fri Mar 18 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Fri Mar 18 2022

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

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

APPENDIX C

Software Analysis Output

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...	Lcomp bot[...	L-torq...	Kyy	Kzz	Cb	Functi...
1	ANGLE1	L3X3X4	7.534			Lbyy						Lateral
2	ANGLE2	L3X3X4	7.534			Lbyy						Lateral
3	ANGLE3	L3X3X4	7.534			Lbyy						Lateral
4	BAR1	SR 5/8	1			Lbyy						Lateral
5	BAR2	SR 5/8	1			Lbyy						Lateral
6	BAR3	SR 5/8	1			Lbyy						Lateral
7	BAR4	SR 5/8	1			Lbyy						Lateral
8	BAR5	SR 5/8	1			Lbyy						Lateral
9	BAR6	SR 5/8	1			Lbyy						Lateral
10	BAR7	SR 5/8	1			Lbyy						Lateral
11	BAR8	SR 5/8	1			Lbyy						Lateral
12	BAR9	SR 5/8	1			Lbyy						Lateral
13	BAR10	SR 5/8	1			Lbyy						Lateral
14	BAR11	SR 5/8	1			Lbyy						Lateral
15	BAR12	SR 5/8	1			Lbyy						Lateral
16	CORNER1	LL3x3x4x0	3.733			Lbyy						Lateral
17	CORNER2	LL3x3x4x0	3.733			Lbyy						Lateral
18	CORNER3	LL3x3x4x0	3.733			Lbyy						Lateral
19	FACE1	L3X3X4	14			Lbyy						Lateral
20	FACE2	L3X3X4	14			Lbyy						Lateral
21	FACE3	L3X3X4	14			Lbyy						Lateral
22	KICKER1	PIPE_2.0	6.287			Lbyy						Lateral
23	KICKER2	PIPE_2.0	6.287			Lbyy						Lateral
24	KICKER3	PIPE_2.0	6.288			Lbyy						Lateral
25	MP ALPHA1	PIPE_2.0	6			Lbyy						Lateral
26	MP ALPHA2	PIPE_2.0	6			Lbyy						Lateral
27	MP ALPHA3	PIPE_2.0	9			Lbyy						Lateral
28	MP ALPHA4	PIPE_2.0	7			Lbyy						Lateral
29	MP ALPHA5	PIPE_2.0	7			Lbyy						Lateral
30	MP ALPHA6	PIPE_2.0	4.017			Lbyy						Lateral
31	MP BETA1	PIPE_2.0	6			Lbyy						Lateral
32	MP BETA2	PIPE_2.0	6			Lbyy						Lateral
33	MP BETA3	PIPE_2.0	9			Lbyy						Lateral
34	MP BETA4	PIPE_2.0	7			Lbyy						Lateral
35	MP BETA5	PIPE_2.0	7			Lbyy						Lateral
36	MP GAMMA1	PIPE_2.0	6			Lbyy						Lateral
37	MP GAMMA2	PIPE_2.0	6			Lbyy						Lateral
38	MP GAMMA3	PIPE_2.0	9			Lbyy						Lateral
39	MP GAMMA4	PIPE_2.0	7			Lbyy						Lateral
40	MP GAMMA5	PIPE_2.0	7			Lbyy						Lateral
41	RAIL1	PIPE_2.0	13.333	5.6		Lbyy						Lateral
42	RAIL2	PIPE_2.0	13.333	5.6		Lbyy						Lateral
43	RAIL3	PIPE_2.0	13.333	5.6		Lbyy						Lateral
44	RCORNER1	6x0.375	1.499			Lbyy						Lateral
45	RCORNER2	6x0.375	1.499			Lbyy						Lateral
46	RCORNER3	6x0.375	1.499			Lbyy						Lateral
47	SO1	HSS3.5X3...	3.267			Lbyy						Lateral
48	SO2	HSS3.5X3...	3.267			Lbyy						Lateral
49	SO3	HSS3.5X3...	3.267			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
1	1	N22	N23			RIGID	None	None	RIGID	Typical
2	2	N20	N21			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
3	3	N77	N78			RIGID	None	None	RIGID	Typical
4	4	N17	N18			RIGID	None	None	RIGID	Typical
5	5	N75	N76			RIGID	None	None	RIGID	Typical
6	7	N73	N74			RIGID	None	None	RIGID	Typical
7	9	N85	N86			RIGID	None	None	RIGID	Typical
8	10	N83	N84			RIGID	None	None	RIGID	Typical
9	11	N81	N82			RIGID	None	None	RIGID	Typical
10	13	N102	N103			RIGID	None	None	RIGID	Typical
11	14	N100A	N101			RIGID	None	None	RIGID	Typical
12	15	N98A	N99A			RIGID	None	None	RIGID	Typical
13	17	N110A	N111A			RIGID	None	None	RIGID	Typical
14	18	N108A	N109A			RIGID	None	None	RIGID	Typical
15	19	N69	N70			RIGID	None	None	RIGID	Typical
16	20	N67	N68			RIGID	None	None	RIGID	Typical
17	21	N65	N66			RIGID	None	None	RIGID	Typical
18	22	N106	N107A			RIGID	None	None	RIGID	Typical
19	25	N117B	N160			RIGID	None	None	RIGID	Typical
20	26	N120B	N163			RIGID	None	None	RIGID	Typical
21	27	N119B	N162			RIGID	None	None	RIGID	Typical
22	28	N116A	N159			RIGID	None	None	RIGID	Typical
23	29	N118A	N161			RIGID	None	None	RIGID	Typical
24	35	N125A	N124A			RIGID	None	None	RIGID	Typical
25	38	N108	N99			RIGID	None	None	RIGID	Typical
26	41	N127A	N126A			RIGID	None	None	RIGID	Typical
27	43	N97	N114			RIGID	None	None	RIGID	Typical
28	44	N96	N111			RIGID	None	None	RIGID	Typical
29	45	N95	N117			RIGID	None	None	RIGID	Typical
30	54	N46	N158			RIGID	None	None	RIGID	Typical
31	55	N128B	N124C			RIGID	None	None	RIGID	Typical
32	56	N126B	N122A			RIGID	None	None	RIGID	Typical
33	57	N136	N134A			RIGID	None	None	RIGID	Typical
34	58	N135	N133			RIGID	None	None	RIGID	Typical
35	59	N61	N130A			RIGID	None	None	RIGID	Typical
36	60	N13	N129A			RIGID	None	None	RIGID	Typical
37	61	N142	N140A			RIGID	None	None	RIGID	Typical
38	62	N141	N139			RIGID	None	None	RIGID	Typical
39	63	N148	N146A			RIGID	None	None	RIGID	Typical
40	64	N147	N145			RIGID	None	None	RIGID	Typical
41	65	N79	N144			RIGID	None	None	RIGID	Typical
42	66	N71	N143A			RIGID	None	None	RIGID	Typical
43	67	N154	N152			RIGID	None	None	RIGID	Typical
44	68	N153	N151			RIGID	None	None	RIGID	Typical
45	69	N160A	N158A			RIGID	None	None	RIGID	Typical
46	70	N159A	N157			RIGID	None	None	RIGID	Typical
47	71	N104	N156			RIGID	None	None	RIGID	Typical
48	72	N96A	N155			RIGID	None	None	RIGID	Typical
49	ANGLE1	N10	N12		80	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
50	ANGLE2	N8	N10		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
51	ANGLE3	N12	N8		270	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
52	BAR1	N136	N128B			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
53	BAR2	N134A	N124C			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
54	BAR3	N135	N126B			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
55	BAR4	N133	N122A			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
56	BAR5	N158A	N152			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
57	BAR6	N160A	N154			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
58	BAR7	N159A	N153			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
59	BAR8	N157	N151			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design R...
60	BAR9	N148	N142			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
61	BAR10	N146A	N140A			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
62	BAR11	N147	N141			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
63	BAR12	N145	N139			SR 5/8	Beam	BAR	SAE J429 Gr 2	Typical
64	CORNER1	N9	N10		270	LL3x3x4x0	Beam	Double Ang...	A36 Gr.36	Typical
65	CORNER2	N7	N8		90	LL3x3x4x0	Beam	Double Ang...	A36 Gr.36	Typical
66	CORNER3	N11	N12		90	LL3x3x4x0	Beam	Double Ang...	A36 Gr.36	Typical
67	FACE1	N9	N11			L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
68	FACE2	N7	N9		180	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
69	FACE3	N11	N7		180	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical
70	KICKER1	N114	N125A		270	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
71	KICKER2	N111	N108			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
72	KICKER3	N117	N127A		90	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
73	MP ALPHA1	N146	N149			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
74	MP ALPHA2	N140	N143			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
75	MP ALPHA3	N134	N137			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
76	MP ALPHA4	N126	N129			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
77	MP ALPHA5	N131A	N132			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
78	MP ALPHA6	N119A	N120A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
79	MP BETA1	N119	N120			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
80	MP BETA2	N117A	N118			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
81	MP BETA3	N115	N116			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
82	MP BETA4	N113	N114A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
83	MP BETA5	N159B	N160B			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
84	MP GAMMA1	N94	N95A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
85	MP GAMMA2	N92	N93			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
86	MP GAMMA3	N90	N91			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
87	MP GAMMA4	N88	N89			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
88	MP GAMMA5	N157A	N158B			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
89	RAIL1	N121	N122			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
90	RAIL2	N127	N128			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
91	RAIL3	N124	N125			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
92	RCORNER1	N130	N128A			6x0.375	Beam	RECT	A36 Gr.36	Typical
93	RCORNER2	N127B	N125B			6x0.375	Beam	RECT	A36 Gr.36	Typical
94	RCORNER3	N124B	N131			6x0.375	Beam	RECT	A36 Gr.36	Typical
95	SO1	N57	N117B			HSS3.5X3.5X4	Beam	HSS Pipe	A500 Gr.B Rect	Typical
96	SO2	N53	N116A			HSS3.5X3.5X4	Beam	HSS Pipe	A500 Gr.B Rect	Typical
97	SO3	N49	N46			HSS3.5X3.5X4	Beam	HSS Pipe	A500 Gr.B Rect	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	1						Yes	** NA **			None
2	2						Yes	** NA **			None
3	3						Yes	** NA **			None
4	4						Yes	** NA **			None
5	5						Yes	** NA **			None
6	7						Yes	** NA **			None
7	9	OOOOXO	OOOOXO				Yes	** NA **			None
8	10	OOOOXO	OOOOXO				Yes	** NA **			None
9	11	OOOOXO	OOOOXO				Yes	** NA **			None
10	13						Yes	** NA **			None
11	14						Yes	** NA **			None
12	15						Yes	** NA **			None
13	17	OOOOXO	OOOOXO				Yes	** NA **			None
14	18	OOOOXO	OOOOXO				Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
15	19	OOOOXO	OOOOXO				Yes	** NA **			None
16	20	OOOOXO	OOOOXO				Yes	** NA **			None
17	21	OOOOXO	OOOOXO				Yes	** NA **			None
18	22	OOOOXO	OOOOXO				Yes	** NA **			None
19	25						Yes	** NA **			None
20	26						Yes	** NA **			None
21	27						Yes	** NA **			None
22	28						Yes	** NA **			None
23	29						Yes	** NA **			None
24	35						Yes	** NA **			None
25	38						Yes	** NA **			None
26	41						Yes	** NA **			None
27	43						Yes	** NA **			None
28	44						Yes	** NA **			None
29	45						Yes	** NA **			None
30	54						Yes	** NA **			None
31	55						Yes	** NA **			None
32	56						Yes	** NA **			None
33	57						Yes	** NA **			None
34	58						Yes	** NA **			None
35	59	OOOOXO	OOOOXO				Yes	** NA **			None
36	60						Yes	** NA **			None
37	61						Yes	** NA **			None
38	62						Yes	** NA **			None
39	63						Yes	** NA **			None
40	64						Yes	** NA **			None
41	65	OOOOXO	OOOOXO				Yes	** NA **			None
42	66						Yes	** NA **			None
43	67						Yes	** NA **			None
44	68						Yes	** NA **			None
45	69						Yes	** NA **			None
46	70						Yes	** NA **			None
47	71	OOOOXO	OOOOXO				Yes	** NA **			None
48	72						Yes	** NA **			None
49	ANGLE1						Yes				None
50	ANGLE2						Yes				None
51	ANGLE3						Yes				None
52	BAR1						Yes				None
53	BAR2						Yes	Default			None
54	BAR3						Yes				None
55	BAR4						Yes				None
56	BAR5						Yes	Default			None
57	BAR6						Yes				None
58	BAR7						Yes				None
59	BAR8						Yes				None
60	BAR9						Yes				None
61	BAR10						Yes	Default			None
62	BAR11						Yes				None
63	BAR12						Yes				None
64	CORNER1						Yes				None
65	CORNER2						Yes				None
66	CORNER3						Yes				None
67	FACE1						Yes	Default			None
68	FACE2						Yes				None
69	FACE3						Yes				None
70	KICKER1	OOOOOX	OOOOOX				Yes	Default			None
71	KICKER2	OOOOOX	OOOOOX				Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
72	KICKER3	OOOOOX	OOOOOX				Yes	Default			None
73	MP ALPHA1						Yes				None
74	MP ALPHA2						Yes				None
75	MP ALPHA3						Yes				None
76	MP ALPHA4						Yes				None
77	MP ALPHA5						Yes				None
78	MP ALPHA6						Yes				None
79	MP BETA1						Yes				None
80	MP BETA2						Yes				None
81	MP BETA3						Yes				None
82	MP BETA4						Yes				None
83	MP BETA5						Yes				None
84	MP GAMM...						Yes				None
85	MP GAMM...						Yes				None
86	MP GAMM...						Yes				None
87	MP GAMM...						Yes				None
88	MP GAMM...						Yes				None
89	RAIL1						Yes				None
90	RAIL2						Yes				None
91	RAIL3						Yes				None
92	RCORNER1						Yes				None
93	RCORNER2						Yes				None
94	RCORNER3						Yes				None
95	SO1						Yes				None
96	SO2						Yes				None
97	SO3						Yes				None

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.25	65	1.15
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1
9	SAE J429 Gr 2	29000	11154	.3	.65	.49	57	1.5	74	1.2

Member Point Loads (BLC 1 : Live Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	FACE1	Z	-.5	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.155	3.833
2	MP ALPHA4	Y	-.155	2.167
3	MP GAMMA4	Y	-.082	3.833
4	MP GAMMA4	Y	-.082	2.167
5	MP ALPHA2	Y	-.186	3.833
6	MP ALPHA2	Y	-.186	2.167
7	MP GAMMA2	Y	-.098	3.833
8	MP GAMMA2	Y	-.098	2.167

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP ALPHA3	Y	-.076	4.083
10	MP ALPHA3	Y	-.076	2.417
11	MP GAMMA3	Y	-.045	4.083
12	MP GAMMA3	Y	-.045	2.417
13	MP ALPHA3	Y	-.084	7.083
14	MP ALPHA3	Y	-.084	5.417
15	MP GAMMA3	Y	-.054	7.083
16	MP GAMMA3	Y	-.054	5.417
17	MP ALPHA4	Y	-.068	2
18	MP BETA4	Y	-.058	2
19	MP GAMMA4	Y	-.058	2
20	MP ALPHA2	Y	-.119	2
21	MP BETA2	Y	-.085	2
22	MP GAMMA2	Y	-.085	2
23	MP ALPHA2	Y	-.114	2
24	MP BETA2	Y	-.08	2
25	MP GAMMA2	Y	-.08	2
26	MP ALPHA2	Y	-.076	2
27	MP BETA2	Y	-.052	2
28	MP GAMMA2	Y	-.052	2
29	MP ALPHA4	Y	-.076	2
30	MP BETA4	Y	-.052	2
31	MP GAMMA4	Y	-.052	2
32	MP ALPHA4	Y	-.12	2
33	MP BETA4	Y	-.12	2
34	MP GAMMA4	Y	-.12	2
35	MP BETA4	Y	-.06	2.833
36	MP BETA4	Y	-.06	1.167
37	MP BETA2	Y	-.071	2.833
38	MP BETA2	Y	-.071	1.167
39	MP BETA3	Y	-.035	2.833
40	MP BETA3	Y	-.035	1.167
41	MP BETA3	Y	-.045	2.833
42	MP BETA3	Y	-.045	1.167
43	MP ALPHA3	Y	-.12	2

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Z	-.038	3.833
2	MP ALPHA4	Z	-.038	2.167
3	MP GAMMA4	Z	-.038	3.833
4	MP GAMMA4	Z	-.038	2.167
5	MP ALPHA2	Z	-.031	3.833
6	MP ALPHA2	Z	-.031	2.167
7	MP GAMMA2	Z	-.031	3.833
8	MP GAMMA2	Z	-.031	2.167
9	MP ALPHA3	Z	-.033	4.083
10	MP ALPHA3	Z	-.033	2.417
11	MP GAMMA3	Z	-.033	4.083
12	MP GAMMA3	Z	-.033	2.417
13	MP ALPHA3	Z	-.041	7.083
14	MP ALPHA3	Z	-.041	5.417
15	MP GAMMA3	Z	-.041	7.083
16	MP GAMMA3	Z	-.041	5.417
17	MP ALPHA4	Z	-.073	2
18	MP BETA4	Z	-.073	2

Member Point Loads (BLC 3 : Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP GAMMA4	Z	-.073	2
20	MP ALPHA2	Z	-.055	2
21	MP BETA2	Z	-.055	2
22	MP GAMMA2	Z	-.055	2
23	MP ALPHA2	Z	-.053	2
24	MP BETA2	Z	-.053	2
25	MP GAMMA2	Z	-.053	2
26	MP ALPHA2	Z	-.06	2
27	MP BETA2	Z	-.06	2
28	MP GAMMA2	Z	-.06	2
29	MP ALPHA4	Z	-.06	2
30	MP BETA4	Z	-.06	2
31	MP GAMMA4	Z	-.06	2
32	MP ALPHA4	Z	-.033	2
33	MP BETA4	Z	-.033	2
34	MP GAMMA4	Z	-.033	2
35	MP BETA4	Z	-.038	2.833
36	MP BETA4	Z	-.038	1.167
37	MP BETA2	Z	-.031	2.833
38	MP BETA2	Z	-.031	1.167
39	MP BETA3	Z	-.033	2.833
40	MP BETA3	Z	-.033	1.167
41	MP BETA3	Z	-.041	2.833
42	MP BETA3	Z	-.041	1.167
43	MP ALPHA3	Z	-.033	2

Member Point Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.113	3.833
2	MP ALPHA4	Y	-.113	2.167
3	MP ALPHA4	X	-.065	3.833
4	MP ALPHA4	X	-.065	2.167
5	MP GAMMA4	Y	-.113	3.833
6	MP GAMMA4	Y	-.113	2.167
7	MP GAMMA4	X	-.065	3.833
8	MP GAMMA4	X	-.065	2.167
9	MP ALPHA2	Y	-.136	3.833
10	MP ALPHA2	Y	-.136	2.167
11	MP ALPHA2	X	-.078	3.833
12	MP ALPHA2	X	-.078	2.167
13	MP GAMMA2	Y	-.136	3.833
14	MP GAMMA2	Y	-.136	2.167
15	MP GAMMA2	X	-.078	3.833
16	MP GAMMA2	X	-.078	2.167
17	MP ALPHA3	Y	-.057	4.083
18	MP ALPHA3	Y	-.057	2.417
19	MP ALPHA3	X	-.033	4.083
20	MP ALPHA3	X	-.033	2.417
21	MP GAMMA3	Y	-.057	4.083
22	MP GAMMA3	Y	-.057	2.417
23	MP GAMMA3	X	-.033	4.083
24	MP GAMMA3	X	-.033	2.417
25	MP ALPHA3	Y	-.064	7.083
26	MP ALPHA3	Y	-.064	5.417
27	MP ALPHA3	X	-.037	7.083
28	MP ALPHA3	X	-.037	5.417

Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP GAMMA3	Y	-.064	7.083
30	MP GAMMA3	Y	-.064	5.417
31	MP GAMMA3	X	-.037	7.083
32	MP GAMMA3	X	-.037	5.417
33	MP ALPHA4	Y	-.056	2
34	MP ALPHA4	X	-.032	2
35	MP BETA4	Y	-.047	2
36	MP BETA4	X	-.027	2
37	MP GAMMA4	Y	-.056	2
38	MP GAMMA4	X	-.032	2
39	MP ALPHA2	Y	-.093	2
40	MP ALPHA2	X	-.054	2
41	MP BETA2	Y	-.064	2
42	MP BETA2	X	-.037	2
43	MP GAMMA2	Y	-.093	2
44	MP GAMMA2	X	-.054	2
45	MP ALPHA2	Y	-.089	2
46	MP ALPHA2	X	-.051	2
47	MP BETA2	Y	-.06	2
48	MP BETA2	X	-.035	2
49	MP GAMMA2	Y	-.089	2
50	MP GAMMA2	X	-.051	2
51	MP ALPHA2	Y	-.059	2
52	MP ALPHA2	X	-.034	2
53	MP BETA2	Y	-.038	2
54	MP BETA2	X	-.022	2
55	MP GAMMA2	Y	-.059	2
56	MP GAMMA2	X	-.034	2
57	MP ALPHA4	Y	-.059	2
58	MP ALPHA4	X	-.034	2
59	MP BETA4	Y	-.038	2
60	MP BETA4	X	-.022	2
61	MP GAMMA4	Y	-.059	2
62	MP GAMMA4	X	-.034	2
63	MP ALPHA4	Y	-.104	2
64	MP ALPHA4	X	-.06	2
65	MP BETA4	Y	-.104	2
66	MP BETA4	X	-.06	2
67	MP GAMMA4	Y	-.104	2
68	MP GAMMA4	X	-.06	2
69	MP BETA4	Y	-.062	2.833
70	MP BETA4	Y	-.062	1.167
71	MP BETA4	X	-.036	2.833
72	MP BETA4	X	-.036	1.167
73	MP BETA2	Y	-.074	2.833
74	MP BETA2	Y	-.074	1.167
75	MP BETA2	X	-.043	2.833
76	MP BETA2	X	-.043	1.167
77	MP BETA3	Y	-.035	2.833
78	MP BETA3	Y	-.035	1.167
79	MP BETA3	X	-.02	2.833
80	MP BETA3	X	-.02	1.167
81	MP BETA3	Y	-.043	2.833
82	MP BETA3	Y	-.043	1.167
83	MP BETA3	X	-.025	2.833
84	MP BETA3	X	-.025	1.167
85	MP ALPHA3	Y	-.104	2

Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
86	MP ALPHA3	X	-.06	2

Member Point Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.041	3.833
2	MP ALPHA4	Y	-.041	2.167
3	MP ALPHA4	X	-.071	3.833
4	MP ALPHA4	X	-.071	2.167
5	MP GAMMA4	Y	-.078	3.833
6	MP GAMMA4	Y	-.078	2.167
7	MP GAMMA4	X	-.134	3.833
8	MP GAMMA4	X	-.134	2.167
9	MP ALPHA2	Y	-.049	3.833
10	MP ALPHA2	Y	-.049	2.167
11	MP ALPHA2	X	-.085	3.833
12	MP ALPHA2	X	-.085	2.167
13	MP GAMMA2	Y	-.093	3.833
14	MP GAMMA2	Y	-.093	2.167
15	MP GAMMA2	X	-.161	3.833
16	MP GAMMA2	X	-.161	2.167
17	MP ALPHA3	Y	-.022	4.083
18	MP ALPHA3	Y	-.022	2.417
19	MP ALPHA3	X	-.039	4.083
20	MP ALPHA3	X	-.039	2.417
21	MP GAMMA3	Y	-.038	4.083
22	MP GAMMA3	Y	-.038	2.417
23	MP GAMMA3	X	-.066	4.083
24	MP GAMMA3	X	-.066	2.417
25	MP ALPHA3	Y	-.027	7.083
26	MP ALPHA3	Y	-.027	5.417
27	MP ALPHA3	X	-.047	7.083
28	MP ALPHA3	X	-.047	5.417
29	MP GAMMA3	Y	-.042	7.083
30	MP GAMMA3	Y	-.042	5.417
31	MP GAMMA3	X	-.072	7.083
32	MP GAMMA3	X	-.072	5.417
33	MP ALPHA4	Y	-.029	2
34	MP ALPHA4	X	-.05	2
35	MP BETA4	Y	-.029	2
36	MP BETA4	X	-.05	2
37	MP GAMMA4	Y	-.034	2
38	MP GAMMA4	X	-.059	2
39	MP ALPHA2	Y	-.043	2
40	MP ALPHA2	X	-.074	2
41	MP BETA2	Y	-.043	2
42	MP BETA2	X	-.074	2
43	MP GAMMA2	Y	-.059	2
44	MP GAMMA2	X	-.103	2
45	MP ALPHA2	Y	-.04	2
46	MP ALPHA2	X	-.07	2
47	MP BETA2	Y	-.04	2
48	MP BETA2	X	-.07	2
49	MP GAMMA2	Y	-.057	2
50	MP GAMMA2	X	-.099	2
51	MP ALPHA2	Y	-.026	2
52	MP ALPHA2	X	-.045	2

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP BETA2	Y	-.026	2
54	MP BETA2	X	-.045	2
55	MP GAMMA2	Y	-.038	2
56	MP GAMMA2	X	-.066	2
57	MP ALPHA4	Y	-.026	2
58	MP ALPHA4	X	-.045	2
59	MP BETA4	Y	-.026	2
60	MP BETA4	X	-.045	2
61	MP GAMMA4	Y	-.038	2
62	MP GAMMA4	X	-.066	2
63	MP ALPHA4	Y	-.06	2
64	MP ALPHA4	X	-.104	2
65	MP BETA4	Y	-.06	2
66	MP BETA4	X	-.104	2
67	MP GAMMA4	Y	-.06	2
68	MP GAMMA4	X	-.104	2
69	MP BETA4	Y	-.059	2.833
70	MP BETA4	Y	-.059	1.167
71	MP BETA4	X	-.103	2.833
72	MP BETA4	X	-.103	1.167
73	MP BETA2	Y	-.071	2.833
74	MP BETA2	Y	-.071	1.167
75	MP BETA2	X	-.123	2.833
76	MP BETA2	X	-.123	1.167
77	MP BETA3	Y	-.03	2.833
78	MP BETA3	Y	-.03	1.167
79	MP BETA3	X	-.052	2.833
80	MP BETA3	X	-.052	1.167
81	MP BETA3	Y	-.034	2.833
82	MP BETA3	Y	-.034	1.167
83	MP BETA3	X	-.06	2.833
84	MP BETA3	X	-.06	1.167
85	MP ALPHA3	Y	-.06	2
86	MP ALPHA3	X	-.104	2

Member Point Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-.058	3.833
2	MP ALPHA4	X	-.058	2.167
3	MP GAMMA4	X	-.131	3.833
4	MP GAMMA4	X	-.131	2.167
5	MP ALPHA2	X	-.069	3.833
6	MP ALPHA2	X	-.069	2.167
7	MP GAMMA2	X	-.157	3.833
8	MP GAMMA2	X	-.157	2.167
9	MP ALPHA3	X	-.034	4.083
10	MP ALPHA3	X	-.034	2.417
11	MP GAMMA3	X	-.066	4.083
12	MP GAMMA3	X	-.066	2.417
13	MP ALPHA3	X	-.044	7.083
14	MP ALPHA3	X	-.044	5.417
15	MP GAMMA3	X	-.074	7.083
16	MP GAMMA3	X	-.074	5.417
17	MP ALPHA4	X	-.054	2
18	MP BETA4	X	-.065	2
19	MP GAMMA4	X	-.065	2

Member Point Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP ALPHA2	X	-.074	2
21	MP BETA2	X	-.108	2
22	MP GAMMA2	X	-.108	2
23	MP ALPHA2	X	-.069	2
24	MP BETA2	X	-.103	2
25	MP GAMMA2	X	-.103	2
26	MP ALPHA2	X	-.044	2
27	MP BETA2	X	-.068	2
28	MP GAMMA2	X	-.068	2
29	MP ALPHA4	X	-.044	2
30	MP BETA4	X	-.068	2
31	MP GAMMA4	X	-.068	2
32	MP ALPHA4	X	-.12	2
33	MP BETA4	X	-.12	2
34	MP GAMMA4	X	-.12	2
35	MP BETA4	X	-.153	2.833
36	MP BETA4	X	-.153	1.167
37	MP BETA2	X	-.183	2.833
38	MP BETA2	X	-.183	1.167
39	MP BETA3	X	-.075	2.833
40	MP BETA3	X	-.075	1.167
41	MP BETA3	X	-.083	2.833
42	MP BETA3	X	-.083	1.167
43	MP ALPHA3	X	-.12	2

Member Point Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.041	3.833
2	MP ALPHA4	Y	.041	2.167
3	MP ALPHA4	X	-.071	3.833
4	MP ALPHA4	X	-.071	2.167
5	MP GAMMA4	Y	.041	3.833
6	MP GAMMA4	Y	.041	2.167
7	MP GAMMA4	X	-.071	3.833
8	MP GAMMA4	X	-.071	2.167
9	MP ALPHA2	Y	.049	3.833
10	MP ALPHA2	Y	.049	2.167
11	MP ALPHA2	X	-.085	3.833
12	MP ALPHA2	X	-.085	2.167
13	MP GAMMA2	Y	.049	3.833
14	MP GAMMA2	Y	.049	2.167
15	MP GAMMA2	X	-.085	3.833
16	MP GAMMA2	X	-.085	2.167
17	MP ALPHA3	Y	.022	4.083
18	MP ALPHA3	Y	.022	2.417
19	MP ALPHA3	X	-.039	4.083
20	MP ALPHA3	X	-.039	2.417
21	MP GAMMA3	Y	.022	4.083
22	MP GAMMA3	Y	.022	2.417
23	MP GAMMA3	X	-.039	4.083
24	MP GAMMA3	X	-.039	2.417
25	MP ALPHA3	Y	.027	7.083
26	MP ALPHA3	Y	.027	5.417
27	MP ALPHA3	X	-.047	7.083
28	MP ALPHA3	X	-.047	5.417
29	MP GAMMA3	Y	.027	7.083

Member Point Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP GAMMA3	Y	.027	5.417
31	MP GAMMA3	X	-.047	7.083
32	MP GAMMA3	X	-.047	5.417
33	MP ALPHA4	Y	.029	2
34	MP ALPHA4	X	-.05	2
35	MP BETA4	Y	.034	2
36	MP BETA4	X	-.059	2
37	MP GAMMA4	Y	.029	2
38	MP GAMMA4	X	-.05	2
39	MP ALPHA2	Y	.043	2
40	MP ALPHA2	X	-.074	2
41	MP BETA2	Y	.059	2
42	MP BETA2	X	-.103	2
43	MP GAMMA2	Y	.043	2
44	MP GAMMA2	X	-.074	2
45	MP ALPHA2	Y	.04	2
46	MP ALPHA2	X	-.07	2
47	MP BETA2	Y	.057	2
48	MP BETA2	X	-.099	2
49	MP GAMMA2	Y	.04	2
50	MP GAMMA2	X	-.07	2
51	MP ALPHA2	Y	.026	2
52	MP ALPHA2	X	-.045	2
53	MP BETA2	Y	.038	2
54	MP BETA2	X	-.066	2
55	MP GAMMA2	Y	.026	2
56	MP GAMMA2	X	-.045	2
57	MP ALPHA4	Y	.026	2
58	MP ALPHA4	X	-.045	2
59	MP BETA4	Y	.038	2
60	MP BETA4	X	-.066	2
61	MP GAMMA4	Y	.026	2
62	MP GAMMA4	X	-.045	2
63	MP ALPHA4	Y	.06	2
64	MP ALPHA4	X	-.104	2
65	MP BETA4	Y	.06	2
66	MP BETA4	X	-.104	2
67	MP GAMMA4	Y	.06	2
68	MP GAMMA4	X	-.104	2
69	MP BETA4	Y	.071	2.833
70	MP BETA4	Y	.071	1.167
71	MP BETA4	X	-.123	2.833
72	MP BETA4	X	-.123	1.167
73	MP BETA2	Y	.085	2.833
74	MP BETA2	Y	.085	1.167
75	MP BETA2	X	-.147	2.833
76	MP BETA2	X	-.147	1.167
77	MP BETA3	Y	.035	2.833
78	MP BETA3	Y	.035	1.167
79	MP BETA3	X	-.061	2.833
80	MP BETA3	X	-.061	1.167
81	MP BETA3	Y	.039	2.833
82	MP BETA3	Y	.039	1.167
83	MP BETA3	X	-.068	2.833
84	MP BETA3	X	-.068	1.167
85	MP ALPHA3	Y	.06	2
86	MP ALPHA3	X	-.104	2

Member Point Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.113	3.833
2	MP ALPHA4	Y	.113	2.167
3	MP ALPHA4	X	-.065	3.833
4	MP ALPHA4	X	-.065	2.167
5	MP GAMMA4	Y	.05	3.833
6	MP GAMMA4	Y	.05	2.167
7	MP GAMMA4	X	-.029	3.833
8	MP GAMMA4	X	-.029	2.167
9	MP ALPHA2	Y	.136	3.833
10	MP ALPHA2	Y	.136	2.167
11	MP ALPHA2	X	-.078	3.833
12	MP ALPHA2	X	-.078	2.167
13	MP GAMMA2	Y	.06	3.833
14	MP GAMMA2	Y	.06	2.167
15	MP GAMMA2	X	-.034	3.833
16	MP GAMMA2	X	-.034	2.167
17	MP ALPHA3	Y	.057	4.083
18	MP ALPHA3	Y	.057	2.417
19	MP ALPHA3	X	-.033	4.083
20	MP ALPHA3	X	-.033	2.417
21	MP GAMMA3	Y	.03	4.083
22	MP GAMMA3	Y	.03	2.417
23	MP GAMMA3	X	-.017	4.083
24	MP GAMMA3	X	-.017	2.417
25	MP ALPHA3	Y	.064	7.083
26	MP ALPHA3	Y	.064	5.417
27	MP ALPHA3	X	-.037	7.083
28	MP ALPHA3	X	-.037	5.417
29	MP GAMMA3	Y	.039	7.083
30	MP GAMMA3	Y	.039	5.417
31	MP GAMMA3	X	-.022	7.083
32	MP GAMMA3	X	-.022	5.417
33	MP ALPHA4	Y	.056	2
34	MP ALPHA4	X	-.032	2
35	MP BETA4	Y	.056	2
36	MP BETA4	X	-.032	2
37	MP GAMMA4	Y	.047	2
38	MP GAMMA4	X	-.027	2
39	MP ALPHA2	Y	.093	2
40	MP ALPHA2	X	-.054	2
41	MP BETA2	Y	.093	2
42	MP BETA2	X	-.054	2
43	MP GAMMA2	Y	.064	2
44	MP GAMMA2	X	-.037	2
45	MP ALPHA2	Y	.089	2
46	MP ALPHA2	X	-.051	2
47	MP BETA2	Y	.089	2
48	MP BETA2	X	-.051	2
49	MP GAMMA2	Y	.06	2
50	MP GAMMA2	X	-.035	2
51	MP ALPHA2	Y	.059	2
52	MP ALPHA2	X	-.034	2
53	MP BETA2	Y	.059	2
54	MP BETA2	X	-.034	2
55	MP GAMMA2	Y	.038	2
56	MP GAMMA2	X	-.022	2
57	MP ALPHA4	Y	.059	2

Member Point Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP ALPHA4	X	-.034	2
59	MP BETA4	Y	.059	2
60	MP BETA4	X	-.034	2
61	MP GAMMA4	Y	.038	2
62	MP GAMMA4	X	-.022	2
63	MP ALPHA4	Y	.104	2
64	MP ALPHA4	X	-.06	2
65	MP BETA4	Y	.104	2
66	MP BETA4	X	-.06	2
67	MP GAMMA4	Y	.104	2
68	MP GAMMA4	X	-.06	2
69	MP BETA4	Y	.082	2.833
70	MP BETA4	Y	.082	1.167
71	MP BETA4	X	-.047	2.833
72	MP BETA4	X	-.047	1.167
73	MP BETA2	Y	.098	2.833
74	MP BETA2	Y	.098	1.167
75	MP BETA2	X	-.057	2.833
76	MP BETA2	X	-.057	1.167
77	MP BETA3	Y	.043	2.833
78	MP BETA3	Y	.043	1.167
79	MP BETA3	X	-.025	2.833
80	MP BETA3	X	-.025	1.167
81	MP BETA3	Y	.051	2.833
82	MP BETA3	Y	.051	1.167
83	MP BETA3	X	-.03	2.833
84	MP BETA3	X	-.03	1.167
85	MP ALPHA3	Y	.104	2
86	MP ALPHA3	X	-.06	2

Member Point Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.155	3.833
2	MP ALPHA4	Y	.155	2.167
3	MP GAMMA4	Y	.082	3.833
4	MP GAMMA4	Y	.082	2.167
5	MP ALPHA2	Y	.186	3.833
6	MP ALPHA2	Y	.186	2.167
7	MP GAMMA2	Y	.098	3.833
8	MP GAMMA2	Y	.098	2.167
9	MP ALPHA3	Y	.076	4.083
10	MP ALPHA3	Y	.076	2.417
11	MP GAMMA3	Y	.045	4.083
12	MP GAMMA3	Y	.045	2.417
13	MP ALPHA3	Y	.084	7.083
14	MP ALPHA3	Y	.084	5.417
15	MP GAMMA3	Y	.054	7.083
16	MP GAMMA3	Y	.054	5.417
17	MP ALPHA4	Y	.068	2
18	MP BETA4	Y	.058	2
19	MP GAMMA4	Y	.058	2
20	MP ALPHA2	Y	.119	2
21	MP BETA2	Y	.085	2
22	MP GAMMA2	Y	.085	2
23	MP ALPHA2	Y	.114	2
24	MP BETA2	Y	.08	2

Member Point Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP GAMMA2	Y	.08	2
26	MP ALPHA2	Y	.076	2
27	MP BETA2	Y	.052	2
28	MP GAMMA2	Y	.052	2
29	MP ALPHA4	Y	.076	2
30	MP BETA4	Y	.052	2
31	MP GAMMA4	Y	.052	2
32	MP ALPHA4	Y	.12	2
33	MP BETA4	Y	.12	2
34	MP GAMMA4	Y	.12	2
35	MP BETA4	Y	.06	2.833
36	MP BETA4	Y	.06	1.167
37	MP BETA2	Y	.071	2.833
38	MP BETA2	Y	.071	1.167
39	MP BETA3	Y	.035	2.833
40	MP BETA3	Y	.035	1.167
41	MP BETA3	Y	.045	2.833
42	MP BETA3	Y	.045	1.167
43	MP ALPHA3	Y	.12	2

Member Point Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.113	3.833
2	MP ALPHA4	Y	.113	2.167
3	MP ALPHA4	X	.065	3.833
4	MP ALPHA4	X	.065	2.167
5	MP GAMMA4	Y	.113	3.833
6	MP GAMMA4	Y	.113	2.167
7	MP GAMMA4	X	.065	3.833
8	MP GAMMA4	X	.065	2.167
9	MP ALPHA2	Y	.136	3.833
10	MP ALPHA2	Y	.136	2.167
11	MP ALPHA2	X	.078	3.833
12	MP ALPHA2	X	.078	2.167
13	MP GAMMA2	Y	.136	3.833
14	MP GAMMA2	Y	.136	2.167
15	MP GAMMA2	X	.078	3.833
16	MP GAMMA2	X	.078	2.167
17	MP ALPHA3	Y	.057	4.083
18	MP ALPHA3	Y	.057	2.417
19	MP ALPHA3	X	.033	4.083
20	MP ALPHA3	X	.033	2.417
21	MP GAMMA3	Y	.057	4.083
22	MP GAMMA3	Y	.057	2.417
23	MP GAMMA3	X	.033	4.083
24	MP GAMMA3	X	.033	2.417
25	MP ALPHA3	Y	.064	7.083
26	MP ALPHA3	Y	.064	5.417
27	MP ALPHA3	X	.037	7.083
28	MP ALPHA3	X	.037	5.417
29	MP GAMMA3	Y	.064	7.083
30	MP GAMMA3	Y	.064	5.417
31	MP GAMMA3	X	.037	7.083
32	MP GAMMA3	X	.037	5.417
33	MP ALPHA4	Y	.056	2
34	MP ALPHA4	X	.032	2

Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP BETA4	Y	.047	2
36	MP BETA4	X	.027	2
37	MP GAMMA4	Y	.056	2
38	MP GAMMA4	X	.032	2
39	MP ALPHA2	Y	.093	2
40	MP ALPHA2	X	.054	2
41	MP BETA2	Y	.064	2
42	MP BETA2	X	.037	2
43	MP GAMMA2	Y	.093	2
44	MP GAMMA2	X	.054	2
45	MP ALPHA2	Y	.089	2
46	MP ALPHA2	X	.051	2
47	MP BETA2	Y	.06	2
48	MP BETA2	X	.035	2
49	MP GAMMA2	Y	.089	2
50	MP GAMMA2	X	.051	2
51	MP ALPHA2	Y	.059	2
52	MP ALPHA2	X	.034	2
53	MP BETA2	Y	.038	2
54	MP BETA2	X	.022	2
55	MP GAMMA2	Y	.059	2
56	MP GAMMA2	X	.034	2
57	MP ALPHA4	Y	.059	2
58	MP ALPHA4	X	.034	2
59	MP BETA4	Y	.038	2
60	MP BETA4	X	.022	2
61	MP GAMMA4	Y	.059	2
62	MP GAMMA4	X	.034	2
63	MP ALPHA4	Y	.104	2
64	MP ALPHA4	X	.06	2
65	MP BETA4	Y	.104	2
66	MP BETA4	X	.06	2
67	MP GAMMA4	Y	.104	2
68	MP GAMMA4	X	.06	2
69	MP BETA4	Y	.062	2.833
70	MP BETA4	Y	.062	1.167
71	MP BETA4	X	.036	2.833
72	MP BETA4	X	.036	1.167
73	MP BETA2	Y	.074	2.833
74	MP BETA2	Y	.074	1.167
75	MP BETA2	X	.043	2.833
76	MP BETA2	X	.043	1.167
77	MP BETA3	Y	.035	2.833
78	MP BETA3	Y	.035	1.167
79	MP BETA3	X	.02	2.833
80	MP BETA3	X	.02	1.167
81	MP BETA3	Y	.043	2.833
82	MP BETA3	Y	.043	1.167
83	MP BETA3	X	.025	2.833
84	MP BETA3	X	.025	1.167
85	MP ALPHA3	Y	.104	2
86	MP ALPHA3	X	.06	2

Member Point Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.041	3.833

Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA4	Y	.041	2.167
3	MP ALPHA4	X	.071	3.833
4	MP ALPHA4	X	.071	2.167
5	MP GAMMA4	Y	.078	3.833
6	MP GAMMA4	Y	.078	2.167
7	MP GAMMA4	X	.134	3.833
8	MP GAMMA4	X	.134	2.167
9	MP ALPHA2	Y	.049	3.833
10	MP ALPHA2	Y	.049	2.167
11	MP ALPHA2	X	.085	3.833
12	MP ALPHA2	X	.085	2.167
13	MP GAMMA2	Y	.093	3.833
14	MP GAMMA2	Y	.093	2.167
15	MP GAMMA2	X	.161	3.833
16	MP GAMMA2	X	.161	2.167
17	MP ALPHA3	Y	.022	4.083
18	MP ALPHA3	Y	.022	2.417
19	MP ALPHA3	X	.039	4.083
20	MP ALPHA3	X	.039	2.417
21	MP GAMMA3	Y	.038	4.083
22	MP GAMMA3	Y	.038	2.417
23	MP GAMMA3	X	.066	4.083
24	MP GAMMA3	X	.066	2.417
25	MP ALPHA3	Y	.027	7.083
26	MP ALPHA3	Y	.027	5.417
27	MP ALPHA3	X	.047	7.083
28	MP ALPHA3	X	.047	5.417
29	MP GAMMA3	Y	.042	7.083
30	MP GAMMA3	Y	.042	5.417
31	MP GAMMA3	X	.072	7.083
32	MP GAMMA3	X	.072	5.417
33	MP ALPHA4	Y	.029	2
34	MP ALPHA4	X	.05	2
35	MP BETA4	Y	.029	2
36	MP BETA4	X	.05	2
37	MP GAMMA4	Y	.034	2
38	MP GAMMA4	X	.059	2
39	MP ALPHA2	Y	.043	2
40	MP ALPHA2	X	.074	2
41	MP BETA2	Y	.043	2
42	MP BETA2	X	.074	2
43	MP GAMMA2	Y	.059	2
44	MP GAMMA2	X	.103	2
45	MP ALPHA2	Y	.04	2
46	MP ALPHA2	X	.07	2
47	MP BETA2	Y	.04	2
48	MP BETA2	X	.07	2
49	MP GAMMA2	Y	.057	2
50	MP GAMMA2	X	.099	2
51	MP ALPHA2	Y	.026	2
52	MP ALPHA2	X	.045	2
53	MP BETA2	Y	.026	2
54	MP BETA2	X	.045	2
55	MP GAMMA2	Y	.038	2
56	MP GAMMA2	X	.066	2
57	MP ALPHA4	Y	.026	2
58	MP ALPHA4	X	.045	2

Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP BETA4	Y	.026	2
60	MP BETA4	X	.045	2
61	MP GAMMA4	Y	.038	2
62	MP GAMMA4	X	.066	2
63	MP ALPHA4	Y	.06	2
64	MP ALPHA4	X	.104	2
65	MP BETA4	Y	.06	2
66	MP BETA4	X	.104	2
67	MP GAMMA4	Y	.06	2
68	MP GAMMA4	X	.104	2
69	MP BETA4	Y	.059	2.833
70	MP BETA4	Y	.059	1.167
71	MP BETA4	X	.103	2.833
72	MP BETA4	X	.103	1.167
73	MP BETA2	Y	.071	2.833
74	MP BETA2	Y	.071	1.167
75	MP BETA2	X	.123	2.833
76	MP BETA2	X	.123	1.167
77	MP BETA3	Y	.03	2.833
78	MP BETA3	Y	.03	1.167
79	MP BETA3	X	.052	2.833
80	MP BETA3	X	.052	1.167
81	MP BETA3	Y	.034	2.833
82	MP BETA3	Y	.034	1.167
83	MP BETA3	X	.06	2.833
84	MP BETA3	X	.06	1.167
85	MP ALPHA3	Y	.06	2
86	MP ALPHA3	X	.104	2

Member Point Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	.058	3.833
2	MP ALPHA4	X	.058	2.167
3	MP GAMMA4	X	.131	3.833
4	MP GAMMA4	X	.131	2.167
5	MP ALPHA2	X	.069	3.833
6	MP ALPHA2	X	.069	2.167
7	MP GAMMA2	X	.157	3.833
8	MP GAMMA2	X	.157	2.167
9	MP ALPHA3	X	.034	4.083
10	MP ALPHA3	X	.034	2.417
11	MP GAMMA3	X	.066	4.083
12	MP GAMMA3	X	.066	2.417
13	MP ALPHA3	X	.044	7.083
14	MP ALPHA3	X	.044	5.417
15	MP GAMMA3	X	.074	7.083
16	MP GAMMA3	X	.074	5.417
17	MP ALPHA4	X	.054	2
18	MP BETA4	X	.065	2
19	MP GAMMA4	X	.065	2
20	MP ALPHA2	X	.074	2
21	MP BETA2	X	.108	2
22	MP GAMMA2	X	.108	2
23	MP ALPHA2	X	.069	2
24	MP BETA2	X	.103	2
25	MP GAMMA2	X	.103	2

Member Point Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
26	MP ALPHA2	X	.044	2
27	MP BETA2	X	.068	2
28	MP GAMMA2	X	.068	2
29	MP ALPHA4	X	.044	2
30	MP BETA4	X	.068	2
31	MP GAMMA4	X	.068	2
32	MP ALPHA4	X	.12	2
33	MP BETA4	X	.12	2
34	MP GAMMA4	X	.12	2
35	MP BETA4	X	.153	2.833
36	MP BETA4	X	.153	1.167
37	MP BETA2	X	.183	2.833
38	MP BETA2	X	.183	1.167
39	MP BETA3	X	.075	2.833
40	MP BETA3	X	.075	1.167
41	MP BETA3	X	.083	2.833
42	MP BETA3	X	.083	1.167
43	MP ALPHA3	X	.12	2

Member Point Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.041	3.833
2	MP ALPHA4	Y	-.041	2.167
3	MP ALPHA4	X	.071	3.833
4	MP ALPHA4	X	.071	2.167
5	MP GAMMA4	Y	-.041	3.833
6	MP GAMMA4	Y	-.041	2.167
7	MP GAMMA4	X	.071	3.833
8	MP GAMMA4	X	.071	2.167
9	MP ALPHA2	Y	-.049	3.833
10	MP ALPHA2	Y	-.049	2.167
11	MP ALPHA2	X	.085	3.833
12	MP ALPHA2	X	.085	2.167
13	MP GAMMA2	Y	-.049	3.833
14	MP GAMMA2	Y	-.049	2.167
15	MP GAMMA2	X	.085	3.833
16	MP GAMMA2	X	.085	2.167
17	MP ALPHA3	Y	-.022	4.083
18	MP ALPHA3	Y	-.022	2.417
19	MP ALPHA3	X	.039	4.083
20	MP ALPHA3	X	.039	2.417
21	MP GAMMA3	Y	-.022	4.083
22	MP GAMMA3	Y	-.022	2.417
23	MP GAMMA3	X	.039	4.083
24	MP GAMMA3	X	.039	2.417
25	MP ALPHA3	Y	-.027	7.083
26	MP ALPHA3	Y	-.027	5.417
27	MP ALPHA3	X	.047	7.083
28	MP ALPHA3	X	.047	5.417
29	MP GAMMA3	Y	-.027	7.083
30	MP GAMMA3	Y	-.027	5.417
31	MP GAMMA3	X	.047	7.083
32	MP GAMMA3	X	.047	5.417
33	MP ALPHA4	Y	-.029	2
34	MP ALPHA4	X	.05	2
35	MP BETA4	Y	-.034	2

Member Point Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP BETA4	X	.059	2
37	MP GAMMA4	Y	-.029	2
38	MP GAMMA4	X	.05	2
39	MP ALPHA2	Y	-.043	2
40	MP ALPHA2	X	.074	2
41	MP BETA2	Y	-.059	2
42	MP BETA2	X	.103	2
43	MP GAMMA2	Y	-.043	2
44	MP GAMMA2	X	.074	2
45	MP ALPHA2	Y	-.04	2
46	MP ALPHA2	X	.07	2
47	MP BETA2	Y	-.057	2
48	MP BETA2	X	.099	2
49	MP GAMMA2	Y	-.04	2
50	MP GAMMA2	X	.07	2
51	MP ALPHA2	Y	-.026	2
52	MP ALPHA2	X	.045	2
53	MP BETA2	Y	-.038	2
54	MP BETA2	X	.066	2
55	MP GAMMA2	Y	-.026	2
56	MP GAMMA2	X	.045	2
57	MP ALPHA4	Y	-.026	2
58	MP ALPHA4	X	.045	2
59	MP BETA4	Y	-.038	2
60	MP BETA4	X	.066	2
61	MP GAMMA4	Y	-.026	2
62	MP GAMMA4	X	.045	2
63	MP ALPHA4	Y	-.06	2
64	MP ALPHA4	X	.104	2
65	MP BETA4	Y	-.06	2
66	MP BETA4	X	.104	2
67	MP GAMMA4	Y	-.06	2
68	MP GAMMA4	X	.104	2
69	MP BETA4	Y	-.071	2.833
70	MP BETA4	Y	-.071	1.167
71	MP BETA4	X	.123	2.833
72	MP BETA4	X	.123	1.167
73	MP BETA2	Y	-.085	2.833
74	MP BETA2	Y	-.085	1.167
75	MP BETA2	X	.147	2.833
76	MP BETA2	X	.147	1.167
77	MP BETA3	Y	-.035	2.833
78	MP BETA3	Y	-.035	1.167
79	MP BETA3	X	.061	2.833
80	MP BETA3	X	.061	1.167
81	MP BETA3	Y	-.039	2.833
82	MP BETA3	Y	-.039	1.167
83	MP BETA3	X	.068	2.833
84	MP BETA3	X	.068	1.167
85	MP ALPHA3	Y	-.06	2
86	MP ALPHA3	X	.104	2

Member Point Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.113	3.833
2	MP ALPHA4	Y	-.113	2.167

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP ALPHA4	X	.065	3.833
4	MP ALPHA4	X	.065	2.167
5	MP GAMMA4	Y	-.05	3.833
6	MP GAMMA4	Y	-.05	2.167
7	MP GAMMA4	X	.029	3.833
8	MP GAMMA4	X	.029	2.167
9	MP ALPHA2	Y	-.136	3.833
10	MP ALPHA2	Y	-.136	2.167
11	MP ALPHA2	X	.078	3.833
12	MP ALPHA2	X	.078	2.167
13	MP GAMMA2	Y	-.06	3.833
14	MP GAMMA2	Y	-.06	2.167
15	MP GAMMA2	X	.034	3.833
16	MP GAMMA2	X	.034	2.167
17	MP ALPHA3	Y	-.057	4.083
18	MP ALPHA3	Y	-.057	2.417
19	MP ALPHA3	X	.033	4.083
20	MP ALPHA3	X	.033	2.417
21	MP GAMMA3	Y	-.03	4.083
22	MP GAMMA3	Y	-.03	2.417
23	MP GAMMA3	X	.017	4.083
24	MP GAMMA3	X	.017	2.417
25	MP ALPHA3	Y	-.064	7.083
26	MP ALPHA3	Y	-.064	5.417
27	MP ALPHA3	X	.037	7.083
28	MP ALPHA3	X	.037	5.417
29	MP GAMMA3	Y	-.039	7.083
30	MP GAMMA3	Y	-.039	5.417
31	MP GAMMA3	X	.022	7.083
32	MP GAMMA3	X	.022	5.417
33	MP ALPHA4	Y	-.056	2
34	MP ALPHA4	X	.032	2
35	MP BETA4	Y	-.056	2
36	MP BETA4	X	.032	2
37	MP GAMMA4	Y	-.047	2
38	MP GAMMA4	X	.027	2
39	MP ALPHA2	Y	-.093	2
40	MP ALPHA2	X	.054	2
41	MP BETA2	Y	-.093	2
42	MP BETA2	X	.054	2
43	MP GAMMA2	Y	-.064	2
44	MP GAMMA2	X	.037	2
45	MP ALPHA2	Y	-.089	2
46	MP ALPHA2	X	.051	2
47	MP BETA2	Y	-.089	2
48	MP BETA2	X	.051	2
49	MP GAMMA2	Y	-.06	2
50	MP GAMMA2	X	.035	2
51	MP ALPHA2	Y	-.059	2
52	MP ALPHA2	X	.034	2
53	MP BETA2	Y	-.059	2
54	MP BETA2	X	.034	2
55	MP GAMMA2	Y	-.038	2
56	MP GAMMA2	X	.022	2
57	MP ALPHA4	Y	-.059	2
58	MP ALPHA4	X	.034	2
59	MP BETA4	Y	-.059	2

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
60	MP BETA4	X	.034	2
61	MP GAMMA4	Y	-.038	2
62	MP GAMMA4	X	.022	2
63	MP ALPHA4	Y	-.104	2
64	MP ALPHA4	X	.06	2
65	MP BETA4	Y	-.104	2
66	MP BETA4	X	.06	2
67	MP GAMMA4	Y	-.104	2
68	MP GAMMA4	X	.06	2
69	MP BETA4	Y	-.082	2.833
70	MP BETA4	Y	-.082	1.167
71	MP BETA4	X	.047	2.833
72	MP BETA4	X	.047	1.167
73	MP BETA2	Y	-.098	2.833
74	MP BETA2	Y	-.098	1.167
75	MP BETA2	X	.057	2.833
76	MP BETA2	X	.057	1.167
77	MP BETA3	Y	-.043	2.833
78	MP BETA3	Y	-.043	1.167
79	MP BETA3	X	.025	2.833
80	MP BETA3	X	.025	1.167
81	MP BETA3	Y	-.051	2.833
82	MP BETA3	Y	-.051	1.167
83	MP BETA3	X	.03	2.833
84	MP BETA3	X	.03	1.167
85	MP ALPHA3	Y	-.104	2
86	MP ALPHA3	X	.06	2

Member Point Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.009	3.833
2	MP ALPHA4	Y	-.009	2.167
3	MP GAMMA4	Y	-.005	3.833
4	MP GAMMA4	Y	-.005	2.167
5	MP ALPHA2	Y	-.011	3.833
6	MP ALPHA2	Y	-.011	2.167
7	MP GAMMA2	Y	-.006	3.833
8	MP GAMMA2	Y	-.006	2.167
9	MP ALPHA3	Y	-.005	4.083
10	MP ALPHA3	Y	-.005	2.417
11	MP GAMMA3	Y	-.003	4.083
12	MP GAMMA3	Y	-.003	2.417
13	MP ALPHA3	Y	-.005	7.083
14	MP ALPHA3	Y	-.005	5.417
15	MP GAMMA3	Y	-.003	7.083
16	MP GAMMA3	Y	-.003	5.417
17	MP ALPHA4	Y	-.004	2
18	MP BETA4	Y	-.003	2
19	MP GAMMA4	Y	-.003	2
20	MP ALPHA2	Y	-.007	2
21	MP BETA2	Y	-.005	2
22	MP GAMMA2	Y	-.005	2
23	MP ALPHA2	Y	-.007	2
24	MP BETA2	Y	-.005	2
25	MP GAMMA2	Y	-.005	2
26	MP ALPHA2	Y	-.005	2

Member Point Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP BETA2	Y	-.003	2
28	MP GAMMA2	Y	-.003	2
29	MP ALPHA4	Y	-.005	2
30	MP BETA4	Y	-.003	2
31	MP GAMMA4	Y	-.003	2
32	MP ALPHA4	Y	-.007	2
33	MP BETA4	Y	-.007	2
34	MP GAMMA4	Y	-.007	2
35	MP BETA4	Y	-.004	2.833
36	MP BETA4	Y	-.004	1.167
37	MP BETA2	Y	-.004	2.833
38	MP BETA2	Y	-.004	1.167
39	MP BETA3	Y	-.002	2.833
40	MP BETA3	Y	-.002	1.167
41	MP BETA3	Y	-.003	2.833
42	MP BETA3	Y	-.003	1.167
43	MP ALPHA3	Y	-.007	2

Member Point Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.007	3.833
2	MP ALPHA4	Y	-.007	2.167
3	MP ALPHA4	X	-.004	3.833
4	MP ALPHA4	X	-.004	2.167
5	MP GAMMA4	Y	-.007	3.833
6	MP GAMMA4	Y	-.007	2.167
7	MP GAMMA4	X	-.004	3.833
8	MP GAMMA4	X	-.004	2.167
9	MP ALPHA2	Y	-.008	3.833
10	MP ALPHA2	Y	-.008	2.167
11	MP ALPHA2	X	-.005	3.833
12	MP ALPHA2	X	-.005	2.167
13	MP GAMMA2	Y	-.008	3.833
14	MP GAMMA2	Y	-.008	2.167
15	MP GAMMA2	X	-.005	3.833
16	MP GAMMA2	X	-.005	2.167
17	MP ALPHA3	Y	-.003	4.083
18	MP ALPHA3	Y	-.003	2.417
19	MP ALPHA3	X	-.002	4.083
20	MP ALPHA3	X	-.002	2.417
21	MP GAMMA3	Y	-.003	4.083
22	MP GAMMA3	Y	-.003	2.417
23	MP GAMMA3	X	-.002	4.083
24	MP GAMMA3	X	-.002	2.417
25	MP ALPHA3	Y	-.004	7.083
26	MP ALPHA3	Y	-.004	5.417
27	MP ALPHA3	X	-.002	7.083
28	MP ALPHA3	X	-.002	5.417
29	MP GAMMA3	Y	-.004	7.083
30	MP GAMMA3	Y	-.004	5.417
31	MP GAMMA3	X	-.002	7.083
32	MP GAMMA3	X	-.002	5.417
33	MP ALPHA4	Y	-.003	2
34	MP ALPHA4	X	-.002	2
35	MP BETA4	Y	-.003	2
36	MP BETA4	X	-.002	2

Member Point Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP GAMMA4	Y	-.003	2
38	MP GAMMA4	X	-.002	2
39	MP ALPHA2	Y	-.006	2
40	MP ALPHA2	X	-.003	2
41	MP BETA2	Y	-.004	2
42	MP BETA2	X	-.002	2
43	MP GAMMA2	Y	-.006	2
44	MP GAMMA2	X	-.003	2
45	MP ALPHA2	Y	-.005	2
46	MP ALPHA2	X	-.003	2
47	MP BETA2	Y	-.004	2
48	MP BETA2	X	-.002	2
49	MP GAMMA2	Y	-.005	2
50	MP GAMMA2	X	-.003	2
51	MP ALPHA2	Y	-.004	2
52	MP ALPHA2	X	-.002	2
53	MP BETA2	Y	-.002	2
54	MP BETA2	X	-.001	2
55	MP GAMMA2	Y	-.004	2
56	MP GAMMA2	X	-.002	2
57	MP ALPHA4	Y	-.004	2
58	MP ALPHA4	X	-.002	2
59	MP BETA4	Y	-.002	2
60	MP BETA4	X	-.001	2
61	MP GAMMA4	Y	-.004	2
62	MP GAMMA4	X	-.002	2
63	MP ALPHA4	Y	-.006	2
64	MP ALPHA4	X	-.004	2
65	MP BETA4	Y	-.006	2
66	MP BETA4	X	-.004	2
67	MP GAMMA4	Y	-.006	2
68	MP GAMMA4	X	-.004	2
69	MP BETA4	Y	-.004	2.833
70	MP BETA4	Y	-.004	1.167
71	MP BETA4	X	-.002	2.833
72	MP BETA4	X	-.002	1.167
73	MP BETA2	Y	-.004	2.833
74	MP BETA2	Y	-.004	1.167
75	MP BETA2	X	-.003	2.833
76	MP BETA2	X	-.003	1.167
77	MP BETA3	Y	-.002	2.833
78	MP BETA3	Y	-.002	1.167
79	MP BETA3	X	-.001	2.833
80	MP BETA3	X	-.001	1.167
81	MP BETA3	Y	-.003	2.833
82	MP BETA3	Y	-.003	1.167
83	MP BETA3	X	-.002	2.833
84	MP BETA3	X	-.002	1.167
85	MP ALPHA3	Y	-.006	2
86	MP ALPHA3	X	-.004	2

Member Point Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.002	3.833
2	MP ALPHA4	Y	-.002	2.167
3	MP ALPHA4	X	-.004	3.833

Member Point Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA4	X	-.004	2.167
5	MP GAMMA4	Y	-.005	3.833
6	MP GAMMA4	Y	-.005	2.167
7	MP GAMMA4	X	-.008	3.833
8	MP GAMMA4	X	-.008	2.167
9	MP ALPHA2	Y	-.003	3.833
10	MP ALPHA2	Y	-.003	2.167
11	MP ALPHA2	X	-.005	3.833
12	MP ALPHA2	X	-.005	2.167
13	MP GAMMA2	Y	-.006	3.833
14	MP GAMMA2	Y	-.006	2.167
15	MP GAMMA2	X	-.01	3.833
16	MP GAMMA2	X	-.01	2.167
17	MP ALPHA3	Y	-.001	4.083
18	MP ALPHA3	Y	-.001	2.417
19	MP ALPHA3	X	-.002	4.083
20	MP ALPHA3	X	-.002	2.417
21	MP GAMMA3	Y	-.002	4.083
22	MP GAMMA3	Y	-.002	2.417
23	MP GAMMA3	X	-.004	4.083
24	MP GAMMA3	X	-.004	2.417
25	MP ALPHA3	Y	-.002	7.083
26	MP ALPHA3	Y	-.002	5.417
27	MP ALPHA3	X	-.003	7.083
28	MP ALPHA3	X	-.003	5.417
29	MP GAMMA3	Y	-.003	7.083
30	MP GAMMA3	Y	-.003	5.417
31	MP GAMMA3	X	-.004	7.083
32	MP GAMMA3	X	-.004	5.417
33	MP ALPHA4	Y	-.002	2
34	MP ALPHA4	X	-.003	2
35	MP BETA4	Y	-.002	2
36	MP BETA4	X	-.003	2
37	MP GAMMA4	Y	-.002	2
38	MP GAMMA4	X	-.004	2
39	MP ALPHA2	Y	-.003	2
40	MP ALPHA2	X	-.004	2
41	MP BETA2	Y	-.003	2
42	MP BETA2	X	-.004	2
43	MP GAMMA2	Y	-.004	2
44	MP GAMMA2	X	-.006	2
45	MP ALPHA2	Y	-.002	2
46	MP ALPHA2	X	-.004	2
47	MP BETA2	Y	-.002	2
48	MP BETA2	X	-.004	2
49	MP GAMMA2	Y	-.003	2
50	MP GAMMA2	X	-.006	2
51	MP ALPHA2	Y	-.002	2
52	MP ALPHA2	X	-.003	2
53	MP BETA2	Y	-.002	2
54	MP BETA2	X	-.003	2
55	MP GAMMA2	Y	-.002	2
56	MP GAMMA2	X	-.004	2
57	MP ALPHA4	Y	-.002	2
58	MP ALPHA4	X	-.003	2
59	MP BETA4	Y	-.002	2
60	MP BETA4	X	-.003	2

Member Point Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
61	MP GAMMA4	Y	-.002	2
62	MP GAMMA4	X	-.004	2
63	MP ALPHA4	Y	-.004	2
64	MP ALPHA4	X	-.006	2
65	MP BETA4	Y	-.004	2
66	MP BETA4	X	-.006	2
67	MP GAMMA4	Y	-.004	2
68	MP GAMMA4	X	-.006	2
69	MP BETA4	Y	-.004	2.833
70	MP BETA4	Y	-.004	1.167
71	MP BETA4	X	-.006	2.833
72	MP BETA4	X	-.006	1.167
73	MP BETA2	Y	-.004	2.833
74	MP BETA2	Y	-.004	1.167
75	MP BETA2	X	-.007	2.833
76	MP BETA2	X	-.007	1.167
77	MP BETA3	Y	-.002	2.833
78	MP BETA3	Y	-.002	1.167
79	MP BETA3	X	-.003	2.833
80	MP BETA3	X	-.003	1.167
81	MP BETA3	Y	-.002	2.833
82	MP BETA3	Y	-.002	1.167
83	MP BETA3	X	-.004	2.833
84	MP BETA3	X	-.004	1.167
85	MP ALPHA3	Y	-.004	2
86	MP ALPHA3	X	-.006	2

Member Point Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-.004	3.833
2	MP ALPHA4	X	-.004	2.167
3	MP GAMMA4	X	-.008	3.833
4	MP GAMMA4	X	-.008	2.167
5	MP ALPHA2	X	-.004	3.833
6	MP ALPHA2	X	-.004	2.167
7	MP GAMMA2	X	-.009	3.833
8	MP GAMMA2	X	-.009	2.167
9	MP ALPHA3	X	-.002	4.083
10	MP ALPHA3	X	-.002	2.417
11	MP GAMMA3	X	-.004	4.083
12	MP GAMMA3	X	-.004	2.417
13	MP ALPHA3	X	-.003	7.083
14	MP ALPHA3	X	-.003	5.417
15	MP GAMMA3	X	-.004	7.083
16	MP GAMMA3	X	-.004	5.417
17	MP ALPHA4	X	-.003	2
18	MP BETA4	X	-.004	2
19	MP GAMMA4	X	-.004	2
20	MP ALPHA2	X	-.004	2
21	MP BETA2	X	-.007	2
22	MP GAMMA2	X	-.007	2
23	MP ALPHA2	X	-.004	2
24	MP BETA2	X	-.006	2
25	MP GAMMA2	X	-.006	2
26	MP ALPHA2	X	-.003	2
27	MP BETA2	X	-.004	2

Member Point Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP GAMMA2	X	-.004	2
29	MP ALPHA4	X	-.003	2
30	MP BETA4	X	-.004	2
31	MP GAMMA4	X	-.004	2
32	MP ALPHA4	X	-.007	2
33	MP BETA4	X	-.007	2
34	MP GAMMA4	X	-.007	2
35	MP BETA4	X	-.009	2.833
36	MP BETA4	X	-.009	1.167
37	MP BETA2	X	-.011	2.833
38	MP BETA2	X	-.011	1.167
39	MP BETA3	X	-.005	2.833
40	MP BETA3	X	-.005	1.167
41	MP BETA3	X	-.005	2.833
42	MP BETA3	X	-.005	1.167
43	MP ALPHA3	X	-.007	2

Member Point Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.002	3.833
2	MP ALPHA4	Y	.002	2.167
3	MP ALPHA4	X	-.004	3.833
4	MP ALPHA4	X	-.004	2.167
5	MP GAMMA4	Y	.002	3.833
6	MP GAMMA4	Y	.002	2.167
7	MP GAMMA4	X	-.004	3.833
8	MP GAMMA4	X	-.004	2.167
9	MP ALPHA2	Y	.003	3.833
10	MP ALPHA2	Y	.003	2.167
11	MP ALPHA2	X	-.005	3.833
12	MP ALPHA2	X	-.005	2.167
13	MP GAMMA2	Y	.003	3.833
14	MP GAMMA2	Y	.003	2.167
15	MP GAMMA2	X	-.005	3.833
16	MP GAMMA2	X	-.005	2.167
17	MP ALPHA3	Y	.001	4.083
18	MP ALPHA3	Y	.001	2.417
19	MP ALPHA3	X	-.002	4.083
20	MP ALPHA3	X	-.002	2.417
21	MP GAMMA3	Y	.001	4.083
22	MP GAMMA3	Y	.001	2.417
23	MP GAMMA3	X	-.002	4.083
24	MP GAMMA3	X	-.002	2.417
25	MP ALPHA3	Y	.002	7.083
26	MP ALPHA3	Y	.002	5.417
27	MP ALPHA3	X	-.003	7.083
28	MP ALPHA3	X	-.003	5.417
29	MP GAMMA3	Y	.002	7.083
30	MP GAMMA3	Y	.002	5.417
31	MP GAMMA3	X	-.003	7.083
32	MP GAMMA3	X	-.003	5.417
33	MP ALPHA4	Y	.002	2
34	MP ALPHA4	X	-.003	2
35	MP BETA4	Y	.002	2
36	MP BETA4	X	-.004	2
37	MP GAMMA4	Y	.002	2

Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
38	MP GAMMA4	X	-.003	2
39	MP ALPHA2	Y	.003	2
40	MP ALPHA2	X	-.004	2
41	MP BETA2	Y	.004	2
42	MP BETA2	X	-.006	2
43	MP GAMMA2	Y	.003	2
44	MP GAMMA2	X	-.004	2
45	MP ALPHA2	Y	.002	2
46	MP ALPHA2	X	-.004	2
47	MP BETA2	Y	.003	2
48	MP BETA2	X	-.006	2
49	MP GAMMA2	Y	.002	2
50	MP GAMMA2	X	-.004	2
51	MP ALPHA2	Y	.002	2
52	MP ALPHA2	X	-.003	2
53	MP BETA2	Y	.002	2
54	MP BETA2	X	-.004	2
55	MP GAMMA2	Y	.002	2
56	MP GAMMA2	X	-.003	2
57	MP ALPHA4	Y	.002	2
58	MP ALPHA4	X	-.003	2
59	MP BETA4	Y	.002	2
60	MP BETA4	X	-.004	2
61	MP GAMMA4	Y	.002	2
62	MP GAMMA4	X	-.003	2
63	MP ALPHA4	Y	.004	2
64	MP ALPHA4	X	-.006	2
65	MP BETA4	Y	.004	2
66	MP BETA4	X	-.006	2
67	MP GAMMA4	Y	.004	2
68	MP GAMMA4	X	-.006	2
69	MP BETA4	Y	.004	2.833
70	MP BETA4	Y	.004	1.167
71	MP BETA4	X	-.007	2.833
72	MP BETA4	X	-.007	1.167
73	MP BETA2	Y	.005	2.833
74	MP BETA2	Y	.005	1.167
75	MP BETA2	X	-.009	2.833
76	MP BETA2	X	-.009	1.167
77	MP BETA3	Y	.002	2.833
78	MP BETA3	Y	.002	1.167
79	MP BETA3	X	-.004	2.833
80	MP BETA3	X	-.004	1.167
81	MP BETA3	Y	.002	2.833
82	MP BETA3	Y	.002	1.167
83	MP BETA3	X	-.004	2.833
84	MP BETA3	X	-.004	1.167
85	MP ALPHA3	Y	.004	2
86	MP ALPHA3	X	-.006	2

Member Point Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.007	3.833
2	MP ALPHA4	Y	.007	2.167
3	MP ALPHA4	X	-.004	3.833
4	MP ALPHA4	X	-.004	2.167

Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP GAMMA4	Y	.003	3.833
6	MP GAMMA4	Y	.003	2.167
7	MP GAMMA4	X	-.002	3.833
8	MP GAMMA4	X	-.002	2.167
9	MP ALPHA2	Y	.008	3.833
10	MP ALPHA2	Y	.008	2.167
11	MP ALPHA2	X	-.005	3.833
12	MP ALPHA2	X	-.005	2.167
13	MP GAMMA2	Y	.004	3.833
14	MP GAMMA2	Y	.004	2.167
15	MP GAMMA2	X	-.002	3.833
16	MP GAMMA2	X	-.002	2.167
17	MP ALPHA3	Y	.003	4.083
18	MP ALPHA3	Y	.003	2.417
19	MP ALPHA3	X	-.002	4.083
20	MP ALPHA3	X	-.002	2.417
21	MP GAMMA3	Y	.002	4.083
22	MP GAMMA3	Y	.002	2.417
23	MP GAMMA3	X	-.001	4.083
24	MP GAMMA3	X	-.001	2.417
25	MP ALPHA3	Y	.004	7.083
26	MP ALPHA3	Y	.004	5.417
27	MP ALPHA3	X	-.002	7.083
28	MP ALPHA3	X	-.002	5.417
29	MP GAMMA3	Y	.002	7.083
30	MP GAMMA3	Y	.002	5.417
31	MP GAMMA3	X	-.001	7.083
32	MP GAMMA3	X	-.001	5.417
33	MP ALPHA4	Y	.003	2
34	MP ALPHA4	X	-.002	2
35	MP BETA4	Y	.003	2
36	MP BETA4	X	-.002	2
37	MP GAMMA4	Y	.003	2
38	MP GAMMA4	X	-.002	2
39	MP ALPHA2	Y	.006	2
40	MP ALPHA2	X	-.003	2
41	MP BETA2	Y	.006	2
42	MP BETA2	X	-.003	2
43	MP GAMMA2	Y	.004	2
44	MP GAMMA2	X	-.002	2
45	MP ALPHA2	Y	.005	2
46	MP ALPHA2	X	-.003	2
47	MP BETA2	Y	.005	2
48	MP BETA2	X	-.003	2
49	MP GAMMA2	Y	.004	2
50	MP GAMMA2	X	-.002	2
51	MP ALPHA2	Y	.004	2
52	MP ALPHA2	X	-.002	2
53	MP BETA2	Y	.004	2
54	MP BETA2	X	-.002	2
55	MP GAMMA2	Y	.002	2
56	MP GAMMA2	X	-.001	2
57	MP ALPHA4	Y	.004	2
58	MP ALPHA4	X	-.002	2
59	MP BETA4	Y	.004	2
60	MP BETA4	X	-.002	2
61	MP GAMMA4	Y	.002	2

Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
62	MP GAMMA4	X	-.001	2
63	MP ALPHA4	Y	.006	2
64	MP ALPHA4	X	-.004	2
65	MP BETA4	Y	.006	2
66	MP BETA4	X	-.004	2
67	MP GAMMA4	Y	.006	2
68	MP GAMMA4	X	-.004	2
69	MP BETA4	Y	.005	2.833
70	MP BETA4	Y	.005	1.167
71	MP BETA4	X	-.003	2.833
72	MP BETA4	X	-.003	1.167
73	MP BETA2	Y	.006	2.833
74	MP BETA2	Y	.006	1.167
75	MP BETA2	X	-.003	2.833
76	MP BETA2	X	-.003	1.167
77	MP BETA3	Y	.003	2.833
78	MP BETA3	Y	.003	1.167
79	MP BETA3	X	-.002	2.833
80	MP BETA3	X	-.002	1.167
81	MP BETA3	Y	.003	2.833
82	MP BETA3	Y	.003	1.167
83	MP BETA3	X	-.002	2.833
84	MP BETA3	X	-.002	1.167
85	MP ALPHA3	Y	.006	2
86	MP ALPHA3	X	-.004	2

Member Point Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.009	3.833
2	MP ALPHA4	Y	.009	2.167
3	MP GAMMA4	Y	.005	3.833
4	MP GAMMA4	Y	.005	2.167
5	MP ALPHA2	Y	.011	3.833
6	MP ALPHA2	Y	.011	2.167
7	MP GAMMA2	Y	.006	3.833
8	MP GAMMA2	Y	.006	2.167
9	MP ALPHA3	Y	.005	4.083
10	MP ALPHA3	Y	.005	2.417
11	MP GAMMA3	Y	.003	4.083
12	MP GAMMA3	Y	.003	2.417
13	MP ALPHA3	Y	.005	7.083
14	MP ALPHA3	Y	.005	5.417
15	MP GAMMA3	Y	.003	7.083
16	MP GAMMA3	Y	.003	5.417
17	MP ALPHA4	Y	.004	2
18	MP BETA4	Y	.003	2
19	MP GAMMA4	Y	.003	2
20	MP ALPHA2	Y	.007	2
21	MP BETA2	Y	.005	2
22	MP GAMMA2	Y	.005	2
23	MP ALPHA2	Y	.007	2
24	MP BETA2	Y	.005	2
25	MP GAMMA2	Y	.005	2
26	MP ALPHA2	Y	.005	2
27	MP BETA2	Y	.003	2
28	MP GAMMA2	Y	.003	2

Member Point Loads (BLC 21 : Maintanence (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP ALPHA4	Y	.005	2
30	MP BETA4	Y	.003	2
31	MP GAMMA4	Y	.003	2
32	MP ALPHA4	Y	.007	2
33	MP BETA4	Y	.007	2
34	MP GAMMA4	Y	.007	2
35	MP BETA4	Y	.004	2.833
36	MP BETA4	Y	.004	1.167
37	MP BETA2	Y	.004	2.833
38	MP BETA2	Y	.004	1.167
39	MP BETA3	Y	.002	2.833
40	MP BETA3	Y	.002	1.167
41	MP BETA3	Y	.003	2.833
42	MP BETA3	Y	.003	1.167
43	MP ALPHA3	Y	.007	2

Member Point Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.007	3.833
2	MP ALPHA4	Y	.007	2.167
3	MP ALPHA4	X	.004	3.833
4	MP ALPHA4	X	.004	2.167
5	MP GAMMA4	Y	.007	3.833
6	MP GAMMA4	Y	.007	2.167
7	MP GAMMA4	X	.004	3.833
8	MP GAMMA4	X	.004	2.167
9	MP ALPHA2	Y	.008	3.833
10	MP ALPHA2	Y	.008	2.167
11	MP ALPHA2	X	.005	3.833
12	MP ALPHA2	X	.005	2.167
13	MP GAMMA2	Y	.008	3.833
14	MP GAMMA2	Y	.008	2.167
15	MP GAMMA2	X	.005	3.833
16	MP GAMMA2	X	.005	2.167
17	MP ALPHA3	Y	.003	4.083
18	MP ALPHA3	Y	.003	2.417
19	MP ALPHA3	X	.002	4.083
20	MP ALPHA3	X	.002	2.417
21	MP GAMMA3	Y	.003	4.083
22	MP GAMMA3	Y	.003	2.417
23	MP GAMMA3	X	.002	4.083
24	MP GAMMA3	X	.002	2.417
25	MP ALPHA3	Y	.004	7.083
26	MP ALPHA3	Y	.004	5.417
27	MP ALPHA3	X	.002	7.083
28	MP ALPHA3	X	.002	5.417
29	MP GAMMA3	Y	.004	7.083
30	MP GAMMA3	Y	.004	5.417
31	MP GAMMA3	X	.002	7.083
32	MP GAMMA3	X	.002	5.417
33	MP ALPHA4	Y	.003	2
34	MP ALPHA4	X	.002	2
35	MP BETA4	Y	.003	2
36	MP BETA4	X	.002	2
37	MP GAMMA4	Y	.003	2
38	MP GAMMA4	X	.002	2

Member Point Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP ALPHA2	Y	.006	2
40	MP ALPHA2	X	.003	2
41	MP BETA2	Y	.004	2
42	MP BETA2	X	.002	2
43	MP GAMMA2	Y	.006	2
44	MP GAMMA2	X	.003	2
45	MP ALPHA2	Y	.005	2
46	MP ALPHA2	X	.003	2
47	MP BETA2	Y	.004	2
48	MP BETA2	X	.002	2
49	MP GAMMA2	Y	.005	2
50	MP GAMMA2	X	.003	2
51	MP ALPHA2	Y	.004	2
52	MP ALPHA2	X	.002	2
53	MP BETA2	Y	.002	2
54	MP BETA2	X	.001	2
55	MP GAMMA2	Y	.004	2
56	MP GAMMA2	X	.002	2
57	MP ALPHA4	Y	.004	2
58	MP ALPHA4	X	.002	2
59	MP BETA4	Y	.002	2
60	MP BETA4	X	.001	2
61	MP GAMMA4	Y	.004	2
62	MP GAMMA4	X	.002	2
63	MP ALPHA4	Y	.006	2
64	MP ALPHA4	X	.004	2
65	MP BETA4	Y	.006	2
66	MP BETA4	X	.004	2
67	MP GAMMA4	Y	.006	2
68	MP GAMMA4	X	.004	2
69	MP BETA4	Y	.004	2.833
70	MP BETA4	Y	.004	1.167
71	MP BETA4	X	.002	2.833
72	MP BETA4	X	.002	1.167
73	MP BETA2	Y	.004	2.833
74	MP BETA2	Y	.004	1.167
75	MP BETA2	X	.003	2.833
76	MP BETA2	X	.003	1.167
77	MP BETA3	Y	.002	2.833
78	MP BETA3	Y	.002	1.167
79	MP BETA3	X	.001	2.833
80	MP BETA3	X	.001	1.167
81	MP BETA3	Y	.003	2.833
82	MP BETA3	Y	.003	1.167
83	MP BETA3	X	.002	2.833
84	MP BETA3	X	.002	1.167
85	MP ALPHA3	Y	.006	2
86	MP ALPHA3	X	.004	2

Member Point Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.002	3.833
2	MP ALPHA4	Y	.002	2.167
3	MP ALPHA4	X	.004	3.833
4	MP ALPHA4	X	.004	2.167
5	MP GAMMA4	Y	.005	3.833

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP GAMMA4	Y	.005	2.167
7	MP GAMMA4	X	.008	3.833
8	MP GAMMA4	X	.008	2.167
9	MP ALPHA2	Y	.003	3.833
10	MP ALPHA2	Y	.003	2.167
11	MP ALPHA2	X	.005	3.833
12	MP ALPHA2	X	.005	2.167
13	MP GAMMA2	Y	.006	3.833
14	MP GAMMA2	Y	.006	2.167
15	MP GAMMA2	X	.01	3.833
16	MP GAMMA2	X	.01	2.167
17	MP ALPHA3	Y	.001	4.083
18	MP ALPHA3	Y	.001	2.417
19	MP ALPHA3	X	.002	4.083
20	MP ALPHA3	X	.002	2.417
21	MP GAMMA3	Y	.002	4.083
22	MP GAMMA3	Y	.002	2.417
23	MP GAMMA3	X	.004	4.083
24	MP GAMMA3	X	.004	2.417
25	MP ALPHA3	Y	.002	7.083
26	MP ALPHA3	Y	.002	5.417
27	MP ALPHA3	X	.003	7.083
28	MP ALPHA3	X	.003	5.417
29	MP GAMMA3	Y	.003	7.083
30	MP GAMMA3	Y	.003	5.417
31	MP GAMMA3	X	.004	7.083
32	MP GAMMA3	X	.004	5.417
33	MP ALPHA4	Y	.002	2
34	MP ALPHA4	X	.003	2
35	MP BETA4	Y	.002	2
36	MP BETA4	X	.003	2
37	MP GAMMA4	Y	.002	2
38	MP GAMMA4	X	.004	2
39	MP ALPHA2	Y	.003	2
40	MP ALPHA2	X	.004	2
41	MP BETA2	Y	.003	2
42	MP BETA2	X	.004	2
43	MP GAMMA2	Y	.004	2
44	MP GAMMA2	X	.006	2
45	MP ALPHA2	Y	.002	2
46	MP ALPHA2	X	.004	2
47	MP BETA2	Y	.002	2
48	MP BETA2	X	.004	2
49	MP GAMMA2	Y	.003	2
50	MP GAMMA2	X	.006	2
51	MP ALPHA2	Y	.002	2
52	MP ALPHA2	X	.003	2
53	MP BETA2	Y	.002	2
54	MP BETA2	X	.003	2
55	MP GAMMA2	Y	.002	2
56	MP GAMMA2	X	.004	2
57	MP ALPHA4	Y	.002	2
58	MP ALPHA4	X	.003	2
59	MP BETA4	Y	.002	2
60	MP BETA4	X	.003	2
61	MP GAMMA4	Y	.002	2
62	MP GAMMA4	X	.004	2

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
63	MP ALPHA4	Y	.004	2
64	MP ALPHA4	X	.006	2
65	MP BETA4	Y	.004	2
66	MP BETA4	X	.006	2
67	MP GAMMA4	Y	.004	2
68	MP GAMMA4	X	.006	2
69	MP BETA4	Y	.004	2.833
70	MP BETA4	Y	.004	1.167
71	MP BETA4	X	.006	2.833
72	MP BETA4	X	.006	1.167
73	MP BETA2	Y	.004	2.833
74	MP BETA2	Y	.004	1.167
75	MP BETA2	X	.007	2.833
76	MP BETA2	X	.007	1.167
77	MP BETA3	Y	.002	2.833
78	MP BETA3	Y	.002	1.167
79	MP BETA3	X	.003	2.833
80	MP BETA3	X	.003	1.167
81	MP BETA3	Y	.002	2.833
82	MP BETA3	Y	.002	1.167
83	MP BETA3	X	.004	2.833
84	MP BETA3	X	.004	1.167
85	MP ALPHA3	Y	.004	2
86	MP ALPHA3	X	.006	2

Member Point Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	.004	3.833
2	MP ALPHA4	X	.004	2.167
3	MP GAMMA4	X	.008	3.833
4	MP GAMMA4	X	.008	2.167
5	MP ALPHA2	X	.004	3.833
6	MP ALPHA2	X	.004	2.167
7	MP GAMMA2	X	.009	3.833
8	MP GAMMA2	X	.009	2.167
9	MP ALPHA3	X	.002	4.083
10	MP ALPHA3	X	.002	2.417
11	MP GAMMA3	X	.004	4.083
12	MP GAMMA3	X	.004	2.417
13	MP ALPHA3	X	.003	7.083
14	MP ALPHA3	X	.003	5.417
15	MP GAMMA3	X	.004	7.083
16	MP GAMMA3	X	.004	5.417
17	MP ALPHA4	X	.003	2
18	MP BETA4	X	.004	2
19	MP GAMMA4	X	.004	2
20	MP ALPHA2	X	.004	2
21	MP BETA2	X	.007	2
22	MP GAMMA2	X	.007	2
23	MP ALPHA2	X	.004	2
24	MP BETA2	X	.006	2
25	MP GAMMA2	X	.006	2
26	MP ALPHA2	X	.003	2
27	MP BETA2	X	.004	2
28	MP GAMMA2	X	.004	2
29	MP ALPHA4	X	.003	2

Member Point Loads (BLC 24 : Maintanence (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP BETA4	X	.004	2
31	MP GAMMA4	X	.004	2
32	MP ALPHA4	X	.007	2
33	MP BETA4	X	.007	2
34	MP GAMMA4	X	.007	2
35	MP BETA4	X	.009	2.833
36	MP BETA4	X	.009	1.167
37	MP BETA2	X	.011	2.833
38	MP BETA2	X	.011	1.167
39	MP BETA3	X	.005	2.833
40	MP BETA3	X	.005	1.167
41	MP BETA3	X	.005	2.833
42	MP BETA3	X	.005	1.167
43	MP ALPHA3	X	.007	2

Member Point Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.002	3.833
2	MP ALPHA4	Y	-.002	2.167
3	MP ALPHA4	X	.004	3.833
4	MP ALPHA4	X	.004	2.167
5	MP GAMMA4	Y	-.002	3.833
6	MP GAMMA4	Y	-.002	2.167
7	MP GAMMA4	X	.004	3.833
8	MP GAMMA4	X	.004	2.167
9	MP ALPHA2	Y	-.003	3.833
10	MP ALPHA2	Y	-.003	2.167
11	MP ALPHA2	X	.005	3.833
12	MP ALPHA2	X	.005	2.167
13	MP GAMMA2	Y	-.003	3.833
14	MP GAMMA2	Y	-.003	2.167
15	MP GAMMA2	X	.005	3.833
16	MP GAMMA2	X	.005	2.167
17	MP ALPHA3	Y	-.001	4.083
18	MP ALPHA3	Y	-.001	2.417
19	MP ALPHA3	X	.002	4.083
20	MP ALPHA3	X	.002	2.417
21	MP GAMMA3	Y	-.001	4.083
22	MP GAMMA3	Y	-.001	2.417
23	MP GAMMA3	X	.002	4.083
24	MP GAMMA3	X	.002	2.417
25	MP ALPHA3	Y	-.002	7.083
26	MP ALPHA3	Y	-.002	5.417
27	MP ALPHA3	X	.003	7.083
28	MP ALPHA3	X	.003	5.417
29	MP GAMMA3	Y	-.002	7.083
30	MP GAMMA3	Y	-.002	5.417
31	MP GAMMA3	X	.003	7.083
32	MP GAMMA3	X	.003	5.417
33	MP ALPHA4	Y	-.002	2
34	MP ALPHA4	X	.003	2
35	MP BETA4	Y	-.002	2
36	MP BETA4	X	.004	2
37	MP GAMMA4	Y	-.002	2
38	MP GAMMA4	X	.003	2
39	MP ALPHA2	Y	-.003	2

Member Point Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
40	MP ALPHA2	X	.004	2
41	MP BETA2	Y	-.004	2
42	MP BETA2	X	.006	2
43	MP GAMMA2	Y	-.003	2
44	MP GAMMA2	X	.004	2
45	MP ALPHA2	Y	-.002	2
46	MP ALPHA2	X	.004	2
47	MP BETA2	Y	-.003	2
48	MP BETA2	X	.006	2
49	MP GAMMA2	Y	-.002	2
50	MP GAMMA2	X	.004	2
51	MP ALPHA2	Y	-.002	2
52	MP ALPHA2	X	.003	2
53	MP BETA2	Y	-.002	2
54	MP BETA2	X	.004	2
55	MP GAMMA2	Y	-.002	2
56	MP GAMMA2	X	.003	2
57	MP ALPHA4	Y	-.002	2
58	MP ALPHA4	X	.003	2
59	MP BETA4	Y	-.002	2
60	MP BETA4	X	.004	2
61	MP GAMMA4	Y	-.002	2
62	MP GAMMA4	X	.003	2
63	MP ALPHA4	Y	-.004	2
64	MP ALPHA4	X	.006	2
65	MP BETA4	Y	-.004	2
66	MP BETA4	X	.006	2
67	MP GAMMA4	Y	-.004	2
68	MP GAMMA4	X	.006	2
69	MP BETA4	Y	-.004	2.833
70	MP BETA4	Y	-.004	1.167
71	MP BETA4	X	.007	2.833
72	MP BETA4	X	.007	1.167
73	MP BETA2	Y	-.005	2.833
74	MP BETA2	Y	-.005	1.167
75	MP BETA2	X	.009	2.833
76	MP BETA2	X	.009	1.167
77	MP BETA3	Y	-.002	2.833
78	MP BETA3	Y	-.002	1.167
79	MP BETA3	X	.004	2.833
80	MP BETA3	X	.004	1.167
81	MP BETA3	Y	-.002	2.833
82	MP BETA3	Y	-.002	1.167
83	MP BETA3	X	.004	2.833
84	MP BETA3	X	.004	1.167
85	MP ALPHA3	Y	-.004	2
86	MP ALPHA3	X	.006	2

Member Point Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.007	3.833
2	MP ALPHA4	Y	-.007	2.167
3	MP ALPHA4	X	.004	3.833
4	MP ALPHA4	X	.004	2.167
5	MP GAMMA4	Y	-.003	3.833
6	MP GAMMA4	Y	-.003	2.167

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP GAMMA4	X	.002	3.833
8	MP GAMMA4	X	.002	2.167
9	MP ALPHA2	Y	-.008	3.833
10	MP ALPHA2	Y	-.008	2.167
11	MP ALPHA2	X	.005	3.833
12	MP ALPHA2	X	.005	2.167
13	MP GAMMA2	Y	-.004	3.833
14	MP GAMMA2	Y	-.004	2.167
15	MP GAMMA2	X	.002	3.833
16	MP GAMMA2	X	.002	2.167
17	MP ALPHA3	Y	-.003	4.083
18	MP ALPHA3	Y	-.003	2.417
19	MP ALPHA3	X	.002	4.083
20	MP ALPHA3	X	.002	2.417
21	MP GAMMA3	Y	-.002	4.083
22	MP GAMMA3	Y	-.002	2.417
23	MP GAMMA3	X	.001	4.083
24	MP GAMMA3	X	.001	2.417
25	MP ALPHA3	Y	-.004	7.083
26	MP ALPHA3	Y	-.004	5.417
27	MP ALPHA3	X	.002	7.083
28	MP ALPHA3	X	.002	5.417
29	MP GAMMA3	Y	-.002	7.083
30	MP GAMMA3	Y	-.002	5.417
31	MP GAMMA3	X	.001	7.083
32	MP GAMMA3	X	.001	5.417
33	MP ALPHA4	Y	-.003	2
34	MP ALPHA4	X	.002	2
35	MP BETA4	Y	-.003	2
36	MP BETA4	X	.002	2
37	MP GAMMA4	Y	-.003	2
38	MP GAMMA4	X	.002	2
39	MP ALPHA2	Y	-.006	2
40	MP ALPHA2	X	.003	2
41	MP BETA2	Y	-.006	2
42	MP BETA2	X	.003	2
43	MP GAMMA2	Y	-.004	2
44	MP GAMMA2	X	.002	2
45	MP ALPHA2	Y	-.005	2
46	MP ALPHA2	X	.003	2
47	MP BETA2	Y	-.005	2
48	MP BETA2	X	.003	2
49	MP GAMMA2	Y	-.004	2
50	MP GAMMA2	X	.002	2
51	MP ALPHA2	Y	-.004	2
52	MP ALPHA2	X	.002	2
53	MP BETA2	Y	-.004	2
54	MP BETA2	X	.002	2
55	MP GAMMA2	Y	-.002	2
56	MP GAMMA2	X	.001	2
57	MP ALPHA4	Y	-.004	2
58	MP ALPHA4	X	.002	2
59	MP BETA4	Y	-.004	2
60	MP BETA4	X	.002	2
61	MP GAMMA4	Y	-.002	2
62	MP GAMMA4	X	.001	2
63	MP ALPHA4	Y	-.006	2

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP ALPHA4	X	.004	2
65	MP BETA4	Y	-.006	2
66	MP BETA4	X	.004	2
67	MP GAMMA4	Y	-.006	2
68	MP GAMMA4	X	.004	2
69	MP BETA4	Y	-.005	2.833
70	MP BETA4	Y	-.005	1.167
71	MP BETA4	X	.003	2.833
72	MP BETA4	X	.003	1.167
73	MP BETA2	Y	-.006	2.833
74	MP BETA2	Y	-.006	1.167
75	MP BETA2	X	.003	2.833
76	MP BETA2	X	.003	1.167
77	MP BETA3	Y	-.003	2.833
78	MP BETA3	Y	-.003	1.167
79	MP BETA3	X	.002	2.833
80	MP BETA3	X	.002	1.167
81	MP BETA3	Y	-.003	2.833
82	MP BETA3	Y	-.003	1.167
83	MP BETA3	X	.002	2.833
84	MP BETA3	X	.002	1.167
85	MP ALPHA3	Y	-.006	2
86	MP ALPHA3	X	.004	2

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Z	-.062	3.833
2	MP ALPHA4	Z	-.062	2.167
3	MP GAMMA4	Z	-.062	3.833
4	MP GAMMA4	Z	-.062	2.167
5	MP ALPHA2	Z	-.063	3.833
6	MP ALPHA2	Z	-.063	2.167
7	MP GAMMA2	Z	-.063	3.833
8	MP GAMMA2	Z	-.063	2.167
9	MP ALPHA3	Z	-.031	4.083
10	MP ALPHA3	Z	-.031	2.417
11	MP GAMMA3	Z	-.031	4.083
12	MP GAMMA3	Z	-.031	2.417
13	MP ALPHA3	Z	-.036	7.083
14	MP ALPHA3	Z	-.036	5.417
15	MP GAMMA3	Z	-.036	7.083
16	MP GAMMA3	Z	-.036	5.417
17	MP ALPHA4	Z	-.042	2
18	MP BETA4	Z	-.042	2
19	MP GAMMA4	Z	-.042	2
20	MP ALPHA2	Z	-.055	2
21	MP BETA2	Z	-.055	2
22	MP GAMMA2	Z	-.055	2
23	MP ALPHA2	Z	-.052	2
24	MP BETA2	Z	-.052	2
25	MP GAMMA2	Z	-.052	2
26	MP ALPHA2	Z	-.039	2
27	MP BETA2	Z	-.039	2
28	MP GAMMA2	Z	-.039	2
29	MP ALPHA4	Z	-.039	2
30	MP BETA4	Z	-.039	2

Member Point Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
31	MP GAMMA4	Z	-.039	2
32	MP ALPHA4	Z	-.068	2
33	MP BETA4	Z	-.068	2
34	MP GAMMA4	Z	-.068	2
35	MP BETA4	Z	-.062	2.833
36	MP BETA4	Z	-.062	1.167
37	MP BETA2	Z	-.063	2.833
38	MP BETA2	Z	-.063	1.167
39	MP BETA3	Z	-.031	2.833
40	MP BETA3	Z	-.031	1.167
41	MP BETA3	Z	-.036	2.833
42	MP BETA3	Z	-.036	1.167
43	MP ALPHA3	Z	-.068	2

Member Point Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.03	3.833
2	MP ALPHA4	Y	-.03	2.167
3	MP GAMMA4	Y	-.017	3.833
4	MP GAMMA4	Y	-.017	2.167
5	MP ALPHA2	Y	-.033	3.833
6	MP ALPHA2	Y	-.033	2.167
7	MP GAMMA2	Y	-.019	3.833
8	MP GAMMA2	Y	-.019	2.167
9	MP ALPHA3	Y	-.009	4.083
10	MP ALPHA3	Y	-.009	2.417
11	MP GAMMA3	Y	-.006	4.083
12	MP GAMMA3	Y	-.006	2.417
13	MP ALPHA3	Y	-.01	7.083
14	MP ALPHA3	Y	-.01	5.417
15	MP GAMMA3	Y	-.007	7.083
16	MP GAMMA3	Y	-.007	5.417
17	MP ALPHA4	Y	-.009	2
18	MP BETA4	Y	-.008	2
19	MP GAMMA4	Y	-.008	2
20	MP ALPHA2	Y	-.015	2
21	MP BETA2	Y	-.011	2
22	MP GAMMA2	Y	-.011	2
23	MP ALPHA2	Y	-.014	2
24	MP BETA2	Y	-.011	2
25	MP GAMMA2	Y	-.011	2
26	MP ALPHA2	Y	-.01	2
27	MP BETA2	Y	-.007	2
28	MP GAMMA2	Y	-.007	2
29	MP ALPHA4	Y	-.01	2
30	MP BETA4	Y	-.007	2
31	MP GAMMA4	Y	-.007	2
32	MP ALPHA4	Y	-.015	2
33	MP BETA4	Y	-.015	2
34	MP GAMMA4	Y	-.015	2
35	MP BETA4	Y	-.01	2.833
36	MP BETA4	Y	-.01	1.167
37	MP BETA2	Y	-.011	2.833
38	MP BETA2	Y	-.011	1.167
39	MP BETA3	Y	-.004	2.833
40	MP BETA3	Y	-.004	1.167

Member Point Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP BETA3	Y	-.005	2.833
42	MP BETA3	Y	-.005	1.167
43	MP ALPHA3	Y	-.015	2

Member Point Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.023	3.833
2	MP ALPHA4	Y	-.023	2.167
3	MP ALPHA4	X	-.013	3.833
4	MP ALPHA4	X	-.013	2.167
5	MP GAMMA4	Y	-.023	3.833
6	MP GAMMA4	Y	-.023	2.167
7	MP GAMMA4	X	-.013	3.833
8	MP GAMMA4	X	-.013	2.167
9	MP ALPHA2	Y	-.024	3.833
10	MP ALPHA2	Y	-.024	2.167
11	MP ALPHA2	X	-.014	3.833
12	MP ALPHA2	X	-.014	2.167
13	MP GAMMA2	Y	-.024	3.833
14	MP GAMMA2	Y	-.024	2.167
15	MP GAMMA2	X	-.014	3.833
16	MP GAMMA2	X	-.014	2.167
17	MP ALPHA3	Y	-.007	4.083
18	MP ALPHA3	Y	-.007	2.417
19	MP ALPHA3	X	-.004	4.083
20	MP ALPHA3	X	-.004	2.417
21	MP GAMMA3	Y	-.007	4.083
22	MP GAMMA3	Y	-.007	2.417
23	MP GAMMA3	X	-.004	4.083
24	MP GAMMA3	X	-.004	2.417
25	MP ALPHA3	Y	-.008	7.083
26	MP ALPHA3	Y	-.008	5.417
27	MP ALPHA3	X	-.004	7.083
28	MP ALPHA3	X	-.004	5.417
29	MP GAMMA3	Y	-.008	7.083
30	MP GAMMA3	Y	-.008	5.417
31	MP GAMMA3	X	-.004	7.083
32	MP GAMMA3	X	-.004	5.417
33	MP ALPHA4	Y	-.007	2
34	MP ALPHA4	X	-.004	2
35	MP BETA4	Y	-.006	2
36	MP BETA4	X	-.004	2
37	MP GAMMA4	Y	-.007	2
38	MP GAMMA4	X	-.004	2
39	MP ALPHA2	Y	-.012	2
40	MP ALPHA2	X	-.007	2
41	MP BETA2	Y	-.009	2
42	MP BETA2	X	-.005	2
43	MP GAMMA2	Y	-.012	2
44	MP GAMMA2	X	-.007	2
45	MP ALPHA2	Y	-.011	2
46	MP ALPHA2	X	-.007	2
47	MP BETA2	Y	-.008	2
48	MP BETA2	X	-.005	2
49	MP GAMMA2	Y	-.011	2
50	MP GAMMA2	X	-.007	2

Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
51	MP ALPHA2	Y	-.008	2
52	MP ALPHA2	X	-.005	2
53	MP BETA2	Y	-.005	2
54	MP BETA2	X	-.003	2
55	MP GAMMA2	Y	-.008	2
56	MP GAMMA2	X	-.005	2
57	MP ALPHA4	Y	-.008	2
58	MP ALPHA4	X	-.005	2
59	MP BETA4	Y	-.005	2
60	MP BETA4	X	-.003	2
61	MP GAMMA4	Y	-.008	2
62	MP GAMMA4	X	-.005	2
63	MP ALPHA4	Y	-.013	2
64	MP ALPHA4	X	-.008	2
65	MP BETA4	Y	-.013	2
66	MP BETA4	X	-.008	2
67	MP GAMMA4	Y	-.013	2
68	MP GAMMA4	X	-.008	2
69	MP BETA4	Y	-.015	2.833
70	MP BETA4	Y	-.015	1.167
71	MP BETA4	X	-.009	2.833
72	MP BETA4	X	-.009	1.167
73	MP BETA2	Y	-.016	2.833
74	MP BETA2	Y	-.016	1.167
75	MP BETA2	X	-.009	2.833
76	MP BETA2	X	-.009	1.167
77	MP BETA3	Y	-.005	2.833
78	MP BETA3	Y	-.005	1.167
79	MP BETA3	X	-.003	2.833
80	MP BETA3	X	-.003	1.167
81	MP BETA3	Y	-.006	2.833
82	MP BETA3	Y	-.006	1.167
83	MP BETA3	X	-.004	2.833
84	MP BETA3	X	-.004	1.167
85	MP ALPHA3	Y	-.013	2
86	MP ALPHA3	X	-.008	2

Member Point Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.009	3.833
2	MP ALPHA4	Y	-.009	2.167
3	MP ALPHA4	X	-.015	3.833
4	MP ALPHA4	X	-.015	2.167
5	MP GAMMA4	Y	-.015	3.833
6	MP GAMMA4	Y	-.015	2.167
7	MP GAMMA4	X	-.026	3.833
8	MP GAMMA4	X	-.026	2.167
9	MP ALPHA2	Y	-.009	3.833
10	MP ALPHA2	Y	-.009	2.167
11	MP ALPHA2	X	-.016	3.833
12	MP ALPHA2	X	-.016	2.167
13	MP GAMMA2	Y	-.016	3.833
14	MP GAMMA2	Y	-.016	2.167
15	MP GAMMA2	X	-.028	3.833
16	MP GAMMA2	X	-.028	2.167
17	MP ALPHA3	Y	-.003	4.083

Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP ALPHA3	Y	-.003	2.417
19	MP ALPHA3	X	-.005	4.083
20	MP ALPHA3	X	-.005	2.417
21	MP GAMMA3	Y	-.005	4.083
22	MP GAMMA3	Y	-.005	2.417
23	MP GAMMA3	X	-.008	4.083
24	MP GAMMA3	X	-.008	2.417
25	MP ALPHA3	Y	-.003	7.083
26	MP ALPHA3	Y	-.003	5.417
27	MP ALPHA3	X	-.006	7.083
28	MP ALPHA3	X	-.006	5.417
29	MP GAMMA3	Y	-.005	7.083
30	MP GAMMA3	Y	-.005	5.417
31	MP GAMMA3	X	-.009	7.083
32	MP GAMMA3	X	-.009	5.417
33	MP ALPHA4	Y	-.004	2
34	MP ALPHA4	X	-.007	2
35	MP BETA4	Y	-.004	2
36	MP BETA4	X	-.007	2
37	MP GAMMA4	Y	-.005	2
38	MP GAMMA4	X	-.008	2
39	MP ALPHA2	Y	-.006	2
40	MP ALPHA2	X	-.01	2
41	MP BETA2	Y	-.006	2
42	MP BETA2	X	-.01	2
43	MP GAMMA2	Y	-.007	2
44	MP GAMMA2	X	-.013	2
45	MP ALPHA2	Y	-.005	2
46	MP ALPHA2	X	-.009	2
47	MP BETA2	Y	-.005	2
48	MP BETA2	X	-.009	2
49	MP GAMMA2	Y	-.007	2
50	MP GAMMA2	X	-.012	2
51	MP ALPHA2	Y	-.004	2
52	MP ALPHA2	X	-.006	2
53	MP BETA2	Y	-.004	2
54	MP BETA2	X	-.006	2
55	MP GAMMA2	Y	-.005	2
56	MP GAMMA2	X	-.009	2
57	MP ALPHA4	Y	-.004	2
58	MP ALPHA4	X	-.006	2
59	MP BETA4	Y	-.004	2
60	MP BETA4	X	-.006	2
61	MP GAMMA4	Y	-.005	2
62	MP GAMMA4	X	-.009	2
63	MP ALPHA4	Y	-.008	2
64	MP ALPHA4	X	-.013	2
65	MP BETA4	Y	-.008	2
66	MP BETA4	X	-.013	2
67	MP GAMMA4	Y	-.008	2
68	MP GAMMA4	X	-.013	2
69	MP BETA4	Y	-.014	2.833
70	MP BETA4	Y	-.014	1.167
71	MP BETA4	X	-.025	2.833
72	MP BETA4	X	-.025	1.167
73	MP BETA2	Y	-.015	2.833
74	MP BETA2	Y	-.015	1.167

Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
75	MP BETA2	X	-.027	2.833
76	MP BETA2	X	-.027	1.167
77	MP BETA3	Y	-.005	2.833
78	MP BETA3	Y	-.005	1.167
79	MP BETA3	X	-.008	2.833
80	MP BETA3	X	-.008	1.167
81	MP BETA3	Y	-.005	2.833
82	MP BETA3	Y	-.005	1.167
83	MP BETA3	X	-.009	2.833
84	MP BETA3	X	-.009	1.167
85	MP ALPHA3	Y	-.008	2
86	MP ALPHA3	X	-.013	2

Member Point Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-.013	3.833
2	MP ALPHA4	X	-.013	2.167
3	MP GAMMA4	X	-.026	3.833
4	MP GAMMA4	X	-.026	2.167
5	MP ALPHA2	X	-.014	3.833
6	MP ALPHA2	X	-.014	2.167
7	MP GAMMA2	X	-.028	3.833
8	MP GAMMA2	X	-.028	2.167
9	MP ALPHA3	X	-.005	4.083
10	MP ALPHA3	X	-.005	2.417
11	MP GAMMA3	X	-.008	4.083
12	MP GAMMA3	X	-.008	2.417
13	MP ALPHA3	X	-.006	7.083
14	MP ALPHA3	X	-.006	5.417
15	MP GAMMA3	X	-.009	7.083
16	MP GAMMA3	X	-.009	5.417
17	MP ALPHA4	X	-.007	2
18	MP BETA4	X	-.009	2
19	MP GAMMA4	X	-.009	2
20	MP ALPHA2	X	-.01	2
21	MP BETA2	X	-.014	2
22	MP GAMMA2	X	-.014	2
23	MP ALPHA2	X	-.009	2
24	MP BETA2	X	-.013	2
25	MP GAMMA2	X	-.013	2
26	MP ALPHA2	X	-.006	2
27	MP BETA2	X	-.009	2
28	MP GAMMA2	X	-.009	2
29	MP ALPHA4	X	-.006	2
30	MP BETA4	X	-.009	2
31	MP GAMMA4	X	-.009	2
32	MP ALPHA4	X	-.015	2
33	MP BETA4	X	-.015	2
34	MP GAMMA4	X	-.015	2
35	MP BETA4	X	-.033	2.833
36	MP BETA4	X	-.033	1.167
37	MP BETA2	X	-.035	2.833
38	MP BETA2	X	-.035	1.167
39	MP BETA3	X	-.01	2.833
40	MP BETA3	X	-.01	1.167
41	MP BETA3	X	-.011	2.833

Member Point Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
42	MP BETA3	X	-.011	1.167
43	MP ALPHA3	X	-.015	2

Member Point Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.009	3.833
2	MP ALPHA4	Y	.009	2.167
3	MP ALPHA4	X	-.015	3.833
4	MP ALPHA4	X	-.015	2.167
5	MP GAMMA4	Y	.009	3.833
6	MP GAMMA4	Y	.009	2.167
7	MP GAMMA4	X	-.015	3.833
8	MP GAMMA4	X	-.015	2.167
9	MP ALPHA2	Y	.009	3.833
10	MP ALPHA2	Y	.009	2.167
11	MP ALPHA2	X	-.016	3.833
12	MP ALPHA2	X	-.016	2.167
13	MP GAMMA2	Y	.009	3.833
14	MP GAMMA2	Y	.009	2.167
15	MP GAMMA2	X	-.016	3.833
16	MP GAMMA2	X	-.016	2.167
17	MP ALPHA3	Y	.003	4.083
18	MP ALPHA3	Y	.003	2.417
19	MP ALPHA3	X	-.005	4.083
20	MP ALPHA3	X	-.005	2.417
21	MP GAMMA3	Y	.003	4.083
22	MP GAMMA3	Y	.003	2.417
23	MP GAMMA3	X	-.005	4.083
24	MP GAMMA3	X	-.005	2.417
25	MP ALPHA3	Y	.003	7.083
26	MP ALPHA3	Y	.003	5.417
27	MP ALPHA3	X	-.006	7.083
28	MP ALPHA3	X	-.006	5.417
29	MP GAMMA3	Y	.003	7.083
30	MP GAMMA3	Y	.003	5.417
31	MP GAMMA3	X	-.006	7.083
32	MP GAMMA3	X	-.006	5.417
33	MP ALPHA4	Y	.004	2
34	MP ALPHA4	X	-.007	2
35	MP BETA4	Y	.005	2
36	MP BETA4	X	-.008	2
37	MP GAMMA4	Y	.004	2
38	MP GAMMA4	X	-.007	2
39	MP ALPHA2	Y	.006	2
40	MP ALPHA2	X	-.01	2
41	MP BETA2	Y	.007	2
42	MP BETA2	X	-.013	2
43	MP GAMMA2	Y	.006	2
44	MP GAMMA2	X	-.01	2
45	MP ALPHA2	Y	.005	2
46	MP ALPHA2	X	-.009	2
47	MP BETA2	Y	.007	2
48	MP BETA2	X	-.012	2
49	MP GAMMA2	Y	.005	2
50	MP GAMMA2	X	-.009	2
51	MP ALPHA2	Y	.004	2

Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
52	MP ALPHA2	X	-.006	2
53	MP BETA2	Y	.005	2
54	MP BETA2	X	-.009	2
55	MP GAMMA2	Y	.004	2
56	MP GAMMA2	X	-.006	2
57	MP ALPHA4	Y	.004	2
58	MP ALPHA4	X	-.006	2
59	MP BETA4	Y	.005	2
60	MP BETA4	X	-.009	2
61	MP GAMMA4	Y	.004	2
62	MP GAMMA4	X	-.006	2
63	MP ALPHA4	Y	.008	2
64	MP ALPHA4	X	-.013	2
65	MP BETA4	Y	.008	2
66	MP BETA4	X	-.013	2
67	MP GAMMA4	Y	.008	2
68	MP GAMMA4	X	-.013	2
69	MP BETA4	Y	.013	2.833
70	MP BETA4	Y	.013	1.167
71	MP BETA4	X	-.023	2.833
72	MP BETA4	X	-.023	1.167
73	MP BETA2	Y	.014	2.833
74	MP BETA2	Y	.014	1.167
75	MP BETA2	X	-.024	2.833
76	MP BETA2	X	-.024	1.167
77	MP BETA3	Y	.004	2.833
78	MP BETA3	Y	.004	1.167
79	MP BETA3	X	-.007	2.833
80	MP BETA3	X	-.007	1.167
81	MP BETA3	Y	.004	2.833
82	MP BETA3	Y	.004	1.167
83	MP BETA3	X	-.007	2.833
84	MP BETA3	X	-.007	1.167
85	MP ALPHA3	Y	.008	2
86	MP ALPHA3	X	-.013	2

Member Point Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.023	3.833
2	MP ALPHA4	Y	.023	2.167
3	MP ALPHA4	X	-.013	3.833
4	MP ALPHA4	X	-.013	2.167
5	MP GAMMA4	Y	.011	3.833
6	MP GAMMA4	Y	.011	2.167
7	MP GAMMA4	X	-.007	3.833
8	MP GAMMA4	X	-.007	2.167
9	MP ALPHA2	Y	.024	3.833
10	MP ALPHA2	Y	.024	2.167
11	MP ALPHA2	X	-.014	3.833
12	MP ALPHA2	X	-.014	2.167
13	MP GAMMA2	Y	.012	3.833
14	MP GAMMA2	Y	.012	2.167
15	MP GAMMA2	X	-.007	3.833
16	MP GAMMA2	X	-.007	2.167
17	MP ALPHA3	Y	.007	4.083
18	MP ALPHA3	Y	.007	2.417

Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP ALPHA3	X	-.004	4.083
20	MP ALPHA3	X	-.004	2.417
21	MP GAMMA3	Y	.004	4.083
22	MP GAMMA3	Y	.004	2.417
23	MP GAMMA3	X	-.002	4.083
24	MP GAMMA3	X	-.002	2.417
25	MP ALPHA3	Y	.008	7.083
26	MP ALPHA3	Y	.008	5.417
27	MP ALPHA3	X	-.004	7.083
28	MP ALPHA3	X	-.004	5.417
29	MP GAMMA3	Y	.005	7.083
30	MP GAMMA3	Y	.005	5.417
31	MP GAMMA3	X	-.003	7.083
32	MP GAMMA3	X	-.003	5.417
33	MP ALPHA4	Y	.007	2
34	MP ALPHA4	X	-.004	2
35	MP BETA4	Y	.007	2
36	MP BETA4	X	-.004	2
37	MP GAMMA4	Y	.006	2
38	MP GAMMA4	X	-.004	2
39	MP ALPHA2	Y	.012	2
40	MP ALPHA2	X	-.007	2
41	MP BETA2	Y	.012	2
42	MP BETA2	X	-.007	2
43	MP GAMMA2	Y	.009	2
44	MP GAMMA2	X	-.005	2
45	MP ALPHA2	Y	.011	2
46	MP ALPHA2	X	-.007	2
47	MP BETA2	Y	.011	2
48	MP BETA2	X	-.007	2
49	MP GAMMA2	Y	.008	2
50	MP GAMMA2	X	-.005	2
51	MP ALPHA2	Y	.008	2
52	MP ALPHA2	X	-.005	2
53	MP BETA2	Y	.008	2
54	MP BETA2	X	-.005	2
55	MP GAMMA2	Y	.005	2
56	MP GAMMA2	X	-.003	2
57	MP ALPHA4	Y	.008	2
58	MP ALPHA4	X	-.005	2
59	MP BETA4	Y	.008	2
60	MP BETA4	X	-.005	2
61	MP GAMMA4	Y	.005	2
62	MP GAMMA4	X	-.003	2
63	MP ALPHA4	Y	.013	2
64	MP ALPHA4	X	-.008	2
65	MP BETA4	Y	.013	2
66	MP BETA4	X	-.008	2
67	MP GAMMA4	Y	.013	2
68	MP GAMMA4	X	-.008	2
69	MP BETA4	Y	.013	2.833
70	MP BETA4	Y	.013	1.167
71	MP BETA4	X	-.007	2.833
72	MP BETA4	X	-.007	1.167
73	MP BETA2	Y	.014	2.833
74	MP BETA2	Y	.014	1.167
75	MP BETA2	X	-.008	2.833

Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
76	MP BETA2	X	-.008	1.167
77	MP BETA3	Y	.004	2.833
78	MP BETA3	Y	.004	1.167
79	MP BETA3	X	-.002	2.833
80	MP BETA3	X	-.002	1.167
81	MP BETA3	Y	.005	2.833
82	MP BETA3	Y	.005	1.167
83	MP BETA3	X	-.003	2.833
84	MP BETA3	X	-.003	1.167
85	MP ALPHA3	Y	.013	2
86	MP ALPHA3	X	-.008	2

Member Point Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.03	3.833
2	MP ALPHA4	Y	.03	2.167
3	MP GAMMA4	Y	.017	3.833
4	MP GAMMA4	Y	.017	2.167
5	MP ALPHA2	Y	.033	3.833
6	MP ALPHA2	Y	.033	2.167
7	MP GAMMA2	Y	.019	3.833
8	MP GAMMA2	Y	.019	2.167
9	MP ALPHA3	Y	.009	4.083
10	MP ALPHA3	Y	.009	2.417
11	MP GAMMA3	Y	.006	4.083
12	MP GAMMA3	Y	.006	2.417
13	MP ALPHA3	Y	.01	7.083
14	MP ALPHA3	Y	.01	5.417
15	MP GAMMA3	Y	.007	7.083
16	MP GAMMA3	Y	.007	5.417
17	MP ALPHA4	Y	.009	2
18	MP BETA4	Y	.008	2
19	MP GAMMA4	Y	.008	2
20	MP ALPHA2	Y	.015	2
21	MP BETA2	Y	.011	2
22	MP GAMMA2	Y	.011	2
23	MP ALPHA2	Y	.014	2
24	MP BETA2	Y	.011	2
25	MP GAMMA2	Y	.011	2
26	MP ALPHA2	Y	.01	2
27	MP BETA2	Y	.007	2
28	MP GAMMA2	Y	.007	2
29	MP ALPHA4	Y	.01	2
30	MP BETA4	Y	.007	2
31	MP GAMMA4	Y	.007	2
32	MP ALPHA4	Y	.015	2
33	MP BETA4	Y	.015	2
34	MP GAMMA4	Y	.015	2
35	MP BETA4	Y	.01	2.833
36	MP BETA4	Y	.01	1.167
37	MP BETA2	Y	.011	2.833
38	MP BETA2	Y	.011	1.167
39	MP BETA3	Y	.004	2.833
40	MP BETA3	Y	.004	1.167
41	MP BETA3	Y	.005	2.833
42	MP BETA3	Y	.005	1.167

Member Point Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
43	MP ALPHA3	Y	.015	2

Member Point Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.023	3.833
2	MP ALPHA4	Y	.023	2.167
3	MP ALPHA4	X	.013	3.833
4	MP ALPHA4	X	.013	2.167
5	MP GAMMA4	Y	.023	3.833
6	MP GAMMA4	Y	.023	2.167
7	MP GAMMA4	X	.013	3.833
8	MP GAMMA4	X	.013	2.167
9	MP ALPHA2	Y	.024	3.833
10	MP ALPHA2	Y	.024	2.167
11	MP ALPHA2	X	.014	3.833
12	MP ALPHA2	X	.014	2.167
13	MP GAMMA2	Y	.024	3.833
14	MP GAMMA2	Y	.024	2.167
15	MP GAMMA2	X	.014	3.833
16	MP GAMMA2	X	.014	2.167
17	MP ALPHA3	Y	.007	4.083
18	MP ALPHA3	Y	.007	2.417
19	MP ALPHA3	X	.004	4.083
20	MP ALPHA3	X	.004	2.417
21	MP GAMMA3	Y	.007	4.083
22	MP GAMMA3	Y	.007	2.417
23	MP GAMMA3	X	.004	4.083
24	MP GAMMA3	X	.004	2.417
25	MP ALPHA3	Y	.008	7.083
26	MP ALPHA3	Y	.008	5.417
27	MP ALPHA3	X	.004	7.083
28	MP ALPHA3	X	.004	5.417
29	MP GAMMA3	Y	.008	7.083
30	MP GAMMA3	Y	.008	5.417
31	MP GAMMA3	X	.004	7.083
32	MP GAMMA3	X	.004	5.417
33	MP ALPHA4	Y	.007	2
34	MP ALPHA4	X	.004	2
35	MP BETA4	Y	.006	2
36	MP BETA4	X	.004	2
37	MP GAMMA4	Y	.007	2
38	MP GAMMA4	X	.004	2
39	MP ALPHA2	Y	.012	2
40	MP ALPHA2	X	.007	2
41	MP BETA2	Y	.009	2
42	MP BETA2	X	.005	2
43	MP GAMMA2	Y	.012	2
44	MP GAMMA2	X	.007	2
45	MP ALPHA2	Y	.011	2
46	MP ALPHA2	X	.007	2
47	MP BETA2	Y	.008	2
48	MP BETA2	X	.005	2
49	MP GAMMA2	Y	.011	2
50	MP GAMMA2	X	.007	2
51	MP ALPHA2	Y	.008	2
52	MP ALPHA2	X	.005	2

Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP BETA2	Y	.005	2
54	MP BETA2	X	.003	2
55	MP GAMMA2	Y	.008	2
56	MP GAMMA2	X	.005	2
57	MP ALPHA4	Y	.008	2
58	MP ALPHA4	X	.005	2
59	MP BETA4	Y	.005	2
60	MP BETA4	X	.003	2
61	MP GAMMA4	Y	.008	2
62	MP GAMMA4	X	.005	2
63	MP ALPHA4	Y	.013	2
64	MP ALPHA4	X	.008	2
65	MP BETA4	Y	.013	2
66	MP BETA4	X	.008	2
67	MP GAMMA4	Y	.013	2
68	MP GAMMA4	X	.008	2
69	MP BETA4	Y	.015	2.833
70	MP BETA4	Y	.015	1.167
71	MP BETA4	X	.009	2.833
72	MP BETA4	X	.009	1.167
73	MP BETA2	Y	.016	2.833
74	MP BETA2	Y	.016	1.167
75	MP BETA2	X	.009	2.833
76	MP BETA2	X	.009	1.167
77	MP BETA3	Y	.005	2.833
78	MP BETA3	Y	.005	1.167
79	MP BETA3	X	.003	2.833
80	MP BETA3	X	.003	1.167
81	MP BETA3	Y	.006	2.833
82	MP BETA3	Y	.006	1.167
83	MP BETA3	X	.004	2.833
84	MP BETA3	X	.004	1.167
85	MP ALPHA3	Y	.013	2
86	MP ALPHA3	X	.008	2

Member Point Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	.009	3.833
2	MP ALPHA4	Y	.009	2.167
3	MP ALPHA4	X	.015	3.833
4	MP ALPHA4	X	.015	2.167
5	MP GAMMA4	Y	.015	3.833
6	MP GAMMA4	Y	.015	2.167
7	MP GAMMA4	X	.026	3.833
8	MP GAMMA4	X	.026	2.167
9	MP ALPHA2	Y	.009	3.833
10	MP ALPHA2	Y	.009	2.167
11	MP ALPHA2	X	.016	3.833
12	MP ALPHA2	X	.016	2.167
13	MP GAMMA2	Y	.016	3.833
14	MP GAMMA2	Y	.016	2.167
15	MP GAMMA2	X	.028	3.833
16	MP GAMMA2	X	.028	2.167
17	MP ALPHA3	Y	.003	4.083
18	MP ALPHA3	Y	.003	2.417
19	MP ALPHA3	X	.005	4.083

Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP ALPHA3	X	.005	2.417
21	MP GAMMA3	Y	.005	4.083
22	MP GAMMA3	Y	.005	2.417
23	MP GAMMA3	X	.008	4.083
24	MP GAMMA3	X	.008	2.417
25	MP ALPHA3	Y	.003	7.083
26	MP ALPHA3	Y	.003	5.417
27	MP ALPHA3	X	.006	7.083
28	MP ALPHA3	X	.006	5.417
29	MP GAMMA3	Y	.005	7.083
30	MP GAMMA3	Y	.005	5.417
31	MP GAMMA3	X	.009	7.083
32	MP GAMMA3	X	.009	5.417
33	MP ALPHA4	Y	.004	2
34	MP ALPHA4	X	.007	2
35	MP BETA4	Y	.004	2
36	MP BETA4	X	.007	2
37	MP GAMMA4	Y	.005	2
38	MP GAMMA4	X	.008	2
39	MP ALPHA2	Y	.006	2
40	MP ALPHA2	X	.01	2
41	MP BETA2	Y	.006	2
42	MP BETA2	X	.01	2
43	MP GAMMA2	Y	.007	2
44	MP GAMMA2	X	.013	2
45	MP ALPHA2	Y	.005	2
46	MP ALPHA2	X	.009	2
47	MP BETA2	Y	.005	2
48	MP BETA2	X	.009	2
49	MP GAMMA2	Y	.007	2
50	MP GAMMA2	X	.012	2
51	MP ALPHA2	Y	.004	2
52	MP ALPHA2	X	.006	2
53	MP BETA2	Y	.004	2
54	MP BETA2	X	.006	2
55	MP GAMMA2	Y	.005	2
56	MP GAMMA2	X	.009	2
57	MP ALPHA4	Y	.004	2
58	MP ALPHA4	X	.006	2
59	MP BETA4	Y	.004	2
60	MP BETA4	X	.006	2
61	MP GAMMA4	Y	.005	2
62	MP GAMMA4	X	.009	2
63	MP ALPHA4	Y	.008	2
64	MP ALPHA4	X	.013	2
65	MP BETA4	Y	.008	2
66	MP BETA4	X	.013	2
67	MP GAMMA4	Y	.008	2
68	MP GAMMA4	X	.013	2
69	MP BETA4	Y	.014	2.833
70	MP BETA4	Y	.014	1.167
71	MP BETA4	X	.025	2.833
72	MP BETA4	X	.025	1.167
73	MP BETA2	Y	.015	2.833
74	MP BETA2	Y	.015	1.167
75	MP BETA2	X	.027	2.833
76	MP BETA2	X	.027	1.167

Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
77	MP BETA3	Y	.005	2.833
78	MP BETA3	Y	.005	1.167
79	MP BETA3	X	.008	2.833
80	MP BETA3	X	.008	1.167
81	MP BETA3	Y	.005	2.833
82	MP BETA3	Y	.005	1.167
83	MP BETA3	X	.009	2.833
84	MP BETA3	X	.009	1.167
85	MP ALPHA3	Y	.008	2
86	MP ALPHA3	X	.013	2

Member Point Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	.013	3.833
2	MP ALPHA4	X	.013	2.167
3	MP GAMMA4	X	.026	3.833
4	MP GAMMA4	X	.026	2.167
5	MP ALPHA2	X	.014	3.833
6	MP ALPHA2	X	.014	2.167
7	MP GAMMA2	X	.028	3.833
8	MP GAMMA2	X	.028	2.167
9	MP ALPHA3	X	.005	4.083
10	MP ALPHA3	X	.005	2.417
11	MP GAMMA3	X	.008	4.083
12	MP GAMMA3	X	.008	2.417
13	MP ALPHA3	X	.006	7.083
14	MP ALPHA3	X	.006	5.417
15	MP GAMMA3	X	.009	7.083
16	MP GAMMA3	X	.009	5.417
17	MP ALPHA4	X	.007	2
18	MP BETA4	X	.009	2
19	MP GAMMA4	X	.009	2
20	MP ALPHA2	X	.01	2
21	MP BETA2	X	.014	2
22	MP GAMMA2	X	.014	2
23	MP ALPHA2	X	.009	2
24	MP BETA2	X	.013	2
25	MP GAMMA2	X	.013	2
26	MP ALPHA2	X	.006	2
27	MP BETA2	X	.009	2
28	MP GAMMA2	X	.009	2
29	MP ALPHA4	X	.006	2
30	MP BETA4	X	.009	2
31	MP GAMMA4	X	.009	2
32	MP ALPHA4	X	.015	2
33	MP BETA4	X	.015	2
34	MP GAMMA4	X	.015	2
35	MP BETA4	X	.033	2.833
36	MP BETA4	X	.033	1.167
37	MP BETA2	X	.035	2.833
38	MP BETA2	X	.035	1.167
39	MP BETA3	X	.01	2.833
40	MP BETA3	X	.01	1.167
41	MP BETA3	X	.011	2.833
42	MP BETA3	X	.011	1.167
43	MP ALPHA3	X	.015	2

Member Point Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.009	3.833
2	MP ALPHA4	Y	-.009	2.167
3	MP ALPHA4	X	.015	3.833
4	MP ALPHA4	X	.015	2.167
5	MP GAMMA4	Y	-.009	3.833
6	MP GAMMA4	Y	-.009	2.167
7	MP GAMMA4	X	.015	3.833
8	MP GAMMA4	X	.015	2.167
9	MP ALPHA2	Y	-.009	3.833
10	MP ALPHA2	Y	-.009	2.167
11	MP ALPHA2	X	.016	3.833
12	MP ALPHA2	X	.016	2.167
13	MP GAMMA2	Y	-.009	3.833
14	MP GAMMA2	Y	-.009	2.167
15	MP GAMMA2	X	.016	3.833
16	MP GAMMA2	X	.016	2.167
17	MP ALPHA3	Y	-.003	4.083
18	MP ALPHA3	Y	-.003	2.417
19	MP ALPHA3	X	.005	4.083
20	MP ALPHA3	X	.005	2.417
21	MP GAMMA3	Y	-.003	4.083
22	MP GAMMA3	Y	-.003	2.417
23	MP GAMMA3	X	.005	4.083
24	MP GAMMA3	X	.005	2.417
25	MP ALPHA3	Y	-.003	7.083
26	MP ALPHA3	Y	-.003	5.417
27	MP ALPHA3	X	.006	7.083
28	MP ALPHA3	X	.006	5.417
29	MP GAMMA3	Y	-.003	7.083
30	MP GAMMA3	Y	-.003	5.417
31	MP GAMMA3	X	.006	7.083
32	MP GAMMA3	X	.006	5.417
33	MP ALPHA4	Y	-.004	2
34	MP ALPHA4	X	.007	2
35	MP BETA4	Y	-.005	2
36	MP BETA4	X	.008	2
37	MP GAMMA4	Y	-.004	2
38	MP GAMMA4	X	.007	2
39	MP ALPHA2	Y	-.006	2
40	MP ALPHA2	X	.01	2
41	MP BETA2	Y	-.007	2
42	MP BETA2	X	.013	2
43	MP GAMMA2	Y	-.006	2
44	MP GAMMA2	X	.01	2
45	MP ALPHA2	Y	-.005	2
46	MP ALPHA2	X	.009	2
47	MP BETA2	Y	-.007	2
48	MP BETA2	X	.012	2
49	MP GAMMA2	Y	-.005	2
50	MP GAMMA2	X	.009	2
51	MP ALPHA2	Y	-.004	2
52	MP ALPHA2	X	.006	2
53	MP BETA2	Y	-.005	2
54	MP BETA2	X	.009	2
55	MP GAMMA2	Y	-.004	2
56	MP GAMMA2	X	.006	2
57	MP ALPHA4	Y	-.004	2

Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP ALPHA4	X	.006	2
59	MP BETA4	Y	-.005	2
60	MP BETA4	X	.009	2
61	MP GAMMA4	Y	-.004	2
62	MP GAMMA4	X	.006	2
63	MP ALPHA4	Y	-.008	2
64	MP ALPHA4	X	.013	2
65	MP BETA4	Y	-.008	2
66	MP BETA4	X	.013	2
67	MP GAMMA4	Y	-.008	2
68	MP GAMMA4	X	.013	2
69	MP BETA4	Y	-.013	2.833
70	MP BETA4	Y	-.013	1.167
71	MP BETA4	X	.023	2.833
72	MP BETA4	X	.023	1.167
73	MP BETA2	Y	-.014	2.833
74	MP BETA2	Y	-.014	1.167
75	MP BETA2	X	.024	2.833
76	MP BETA2	X	.024	1.167
77	MP BETA3	Y	-.004	2.833
78	MP BETA3	Y	-.004	1.167
79	MP BETA3	X	.007	2.833
80	MP BETA3	X	.007	1.167
81	MP BETA3	Y	-.004	2.833
82	MP BETA3	Y	-.004	1.167
83	MP BETA3	X	.007	2.833
84	MP BETA3	X	.007	1.167
85	MP ALPHA3	Y	-.008	2
86	MP ALPHA3	X	.013	2

Member Point Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.023	3.833
2	MP ALPHA4	Y	-.023	2.167
3	MP ALPHA4	X	.013	3.833
4	MP ALPHA4	X	.013	2.167
5	MP GAMMA4	Y	-.011	3.833
6	MP GAMMA4	Y	-.011	2.167
7	MP GAMMA4	X	.007	3.833
8	MP GAMMA4	X	.007	2.167
9	MP ALPHA2	Y	-.024	3.833
10	MP ALPHA2	Y	-.024	2.167
11	MP ALPHA2	X	.014	3.833
12	MP ALPHA2	X	.014	2.167
13	MP GAMMA2	Y	-.012	3.833
14	MP GAMMA2	Y	-.012	2.167
15	MP GAMMA2	X	.007	3.833
16	MP GAMMA2	X	.007	2.167
17	MP ALPHA3	Y	-.007	4.083
18	MP ALPHA3	Y	-.007	2.417
19	MP ALPHA3	X	.004	4.083
20	MP ALPHA3	X	.004	2.417
21	MP GAMMA3	Y	-.004	4.083
22	MP GAMMA3	Y	-.004	2.417
23	MP GAMMA3	X	.002	4.083
24	MP GAMMA3	X	.002	2.417

Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP ALPHA3	Y	-.008	7.083
26	MP ALPHA3	Y	-.008	5.417
27	MP ALPHA3	X	.004	7.083
28	MP ALPHA3	X	.004	5.417
29	MP GAMMA3	Y	-.005	7.083
30	MP GAMMA3	Y	-.005	5.417
31	MP GAMMA3	X	.003	7.083
32	MP GAMMA3	X	.003	5.417
33	MP ALPHA4	Y	-.007	2
34	MP ALPHA4	X	.004	2
35	MP BETA4	Y	-.007	2
36	MP BETA4	X	.004	2
37	MP GAMMA4	Y	-.006	2
38	MP GAMMA4	X	.004	2
39	MP ALPHA2	Y	-.012	2
40	MP ALPHA2	X	.007	2
41	MP BETA2	Y	-.012	2
42	MP BETA2	X	.007	2
43	MP GAMMA2	Y	-.009	2
44	MP GAMMA2	X	.005	2
45	MP ALPHA2	Y	-.011	2
46	MP ALPHA2	X	.007	2
47	MP BETA2	Y	-.011	2
48	MP BETA2	X	.007	2
49	MP GAMMA2	Y	-.008	2
50	MP GAMMA2	X	.005	2
51	MP ALPHA2	Y	-.008	2
52	MP ALPHA2	X	.005	2
53	MP BETA2	Y	-.008	2
54	MP BETA2	X	.005	2
55	MP GAMMA2	Y	-.005	2
56	MP GAMMA2	X	.003	2
57	MP ALPHA4	Y	-.008	2
58	MP ALPHA4	X	.005	2
59	MP BETA4	Y	-.008	2
60	MP BETA4	X	.005	2
61	MP GAMMA4	Y	-.005	2
62	MP GAMMA4	X	.003	2
63	MP ALPHA4	Y	-.013	2
64	MP ALPHA4	X	.008	2
65	MP BETA4	Y	-.013	2
66	MP BETA4	X	.008	2
67	MP GAMMA4	Y	-.013	2
68	MP GAMMA4	X	.008	2
69	MP BETA4	Y	-.013	2.833
70	MP BETA4	Y	-.013	1.167
71	MP BETA4	X	.007	2.833
72	MP BETA4	X	.007	1.167
73	MP BETA2	Y	-.014	2.833
74	MP BETA2	Y	-.014	1.167
75	MP BETA2	X	.008	2.833
76	MP BETA2	X	.008	1.167
77	MP BETA3	Y	-.004	2.833
78	MP BETA3	Y	-.004	1.167
79	MP BETA3	X	.002	2.833
80	MP BETA3	X	.002	1.167
81	MP BETA3	Y	-.005	2.833

Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
82	MP BETA3	Y	-.005	1.167
83	MP BETA3	X	.003	2.833
84	MP BETA3	X	.003	1.167
85	MP ALPHA3	Y	-.013	2
86	MP ALPHA3	X	.008	2

Member Point Loads (BLC 40 : Earthquake (x-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	X	-.004	3.833
2	MP ALPHA4	X	-.004	2.167
3	MP GAMMA4	X	-.004	3.833
4	MP GAMMA4	X	-.004	2.167
5	MP ALPHA2	X	-.003	3.833
6	MP ALPHA2	X	-.003	2.167
7	MP GAMMA2	X	-.003	3.833
8	MP GAMMA2	X	-.003	2.167
9	MP ALPHA3	X	-.004	4.083
10	MP ALPHA3	X	-.004	2.417
11	MP GAMMA3	X	-.004	4.083
12	MP GAMMA3	X	-.004	2.417
13	MP ALPHA3	X	-.004	7.083
14	MP ALPHA3	X	-.004	5.417
15	MP GAMMA3	X	-.004	7.083
16	MP GAMMA3	X	-.004	5.417
17	MP ALPHA4	X	-.008	2
18	MP BETA4	X	-.008	2
19	MP GAMMA4	X	-.008	2
20	MP ALPHA2	X	-.006	2
21	MP BETA2	X	-.006	2
22	MP GAMMA2	X	-.006	2
23	MP ALPHA2	X	-.006	2
24	MP BETA2	X	-.006	2
25	MP GAMMA2	X	-.006	2
26	MP ALPHA2	X	-.006	2
27	MP BETA2	X	-.006	2
28	MP GAMMA2	X	-.006	2
29	MP ALPHA4	X	-.006	2
30	MP BETA4	X	-.006	2
31	MP GAMMA4	X	-.006	2
32	MP ALPHA4	X	-.004	2
33	MP BETA4	X	-.004	2
34	MP GAMMA4	X	-.004	2
35	MP BETA4	X	-.004	2.833
36	MP BETA4	X	-.004	1.167
37	MP BETA2	X	-.003	2.833
38	MP BETA2	X	-.003	1.167
39	MP BETA3	X	-.004	2.833
40	MP BETA3	X	-.004	1.167
41	MP BETA3	X	-.004	2.833
42	MP BETA3	X	-.004	1.167
43	MP ALPHA3	X	-.004	2

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Y	-.004	3.833
2	MP ALPHA4	Y	-.004	2.167

Member Point Loads (BLC 41 : Earthquake (y-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP GAMMA4	Y	-.004	3.833
4	MP GAMMA4	Y	-.004	2.167
5	MP ALPHA2	Y	-.003	3.833
6	MP ALPHA2	Y	-.003	2.167
7	MP GAMMA2	Y	-.003	3.833
8	MP GAMMA2	Y	-.003	2.167
9	MP ALPHA3	Y	-.004	4.083
10	MP ALPHA3	Y	-.004	2.417
11	MP GAMMA3	Y	-.004	4.083
12	MP GAMMA3	Y	-.004	2.417
13	MP ALPHA3	Y	-.004	7.083
14	MP ALPHA3	Y	-.004	5.417
15	MP GAMMA3	Y	-.004	7.083
16	MP GAMMA3	Y	-.004	5.417
17	MP ALPHA4	Y	-.008	2
18	MP BETA4	Y	-.008	2
19	MP GAMMA4	Y	-.008	2
20	MP ALPHA2	Y	-.006	2
21	MP BETA2	Y	-.006	2
22	MP GAMMA2	Y	-.006	2
23	MP ALPHA2	Y	-.006	2
24	MP BETA2	Y	-.006	2
25	MP GAMMA2	Y	-.006	2
26	MP ALPHA2	Y	-.006	2
27	MP BETA2	Y	-.006	2
28	MP GAMMA2	Y	-.006	2
29	MP ALPHA4	Y	-.006	2
30	MP BETA4	Y	-.006	2
31	MP GAMMA4	Y	-.006	2
32	MP ALPHA4	Y	-.004	2
33	MP BETA4	Y	-.004	2
34	MP GAMMA4	Y	-.004	2
35	MP BETA4	Y	-.004	2.833
36	MP BETA4	Y	-.004	1.167
37	MP BETA2	Y	-.003	2.833
38	MP BETA2	Y	-.003	1.167
39	MP BETA3	Y	-.004	2.833
40	MP BETA3	Y	-.004	1.167
41	MP BETA3	Y	-.004	2.833
42	MP BETA3	Y	-.004	1.167
43	MP ALPHA3	Y	-.004	2

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA4	Z	-.002	3.833
2	MP ALPHA4	Z	-.002	2.167
3	MP GAMMA4	Z	-.002	3.833
4	MP GAMMA4	Z	-.002	2.167
5	MP ALPHA2	Z	-.001	3.833
6	MP ALPHA2	Z	-.001	2.167
7	MP GAMMA2	Z	-.001	3.833
8	MP GAMMA2	Z	-.001	2.167
9	MP ALPHA3	Z	-.001	4.083
10	MP ALPHA3	Z	-.001	2.417
11	MP GAMMA3	Z	-.001	4.083
12	MP GAMMA3	Z	-.001	2.417

Member Point Loads (BLC 42 : Earthquake (z-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP ALPHA3	Z	-.002	7.083
14	MP ALPHA3	Z	-.002	5.417
15	MP GAMMA3	Z	-.002	7.083
16	MP GAMMA3	Z	-.002	5.417
17	MP ALPHA4	Z	-.003	2
18	MP BETA4	Z	-.003	2
19	MP GAMMA4	Z	-.003	2
20	MP ALPHA2	Z	-.002	2
21	MP BETA2	Z	-.002	2
22	MP GAMMA2	Z	-.002	2
23	MP ALPHA2	Z	-.002	2
24	MP BETA2	Z	-.002	2
25	MP GAMMA2	Z	-.002	2
26	MP ALPHA2	Z	-.003	2
27	MP BETA2	Z	-.003	2
28	MP GAMMA2	Z	-.003	2
29	MP ALPHA4	Z	-.003	2
30	MP BETA4	Z	-.003	2
31	MP GAMMA4	Z	-.003	2
32	MP ALPHA4	Z	-.001	2
33	MP BETA4	Z	-.001	2
34	MP GAMMA4	Z	-.001	2
35	MP BETA4	Z	-.002	2.833
36	MP BETA4	Z	-.002	1.167
37	MP BETA2	Z	-.001	2.833
38	MP BETA2	Z	-.001	1.167
39	MP BETA3	Z	-.001	2.833
40	MP BETA3	Z	-.001	1.167
41	MP BETA3	Z	-.002	2.833
42	MP BETA3	Z	-.002	1.167
43	MP ALPHA3	Z	-.001	2

Member Distributed Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.01	-.01	0	0
2	ANGLE2	PY	-.01	-.01	0	0
3	ANGLE3	PY	-.01	-.01	0	0
4	CORNER1	PY	-.01	-.01	0	0
5	CORNER2	PY	-.01	-.01	0	0
6	CORNER3	PY	-.01	-.01	0	0
7	FACE1	PY	-.01	-.01	0	0
8	FACE2	PY	-.021	-.021	0	0
9	FACE3	PY	-.021	-.021	0	0
10	KICKER1	PY	-.006	-.006	0	0
11	KICKER2	PY	-.006	-.006	0	0
12	KICKER3	PY	-.006	-.006	0	0
13	RAIL1	PY	-.003	-.003	0	0
14	RAIL2	PY	-.006	-.006	0	0
15	RAIL3	PY	-.006	-.006	0	0
16	RCORNER1	PY	-.021	-.021	0	0
17	RCORNER2	PY	-.021	-.021	0	0
18	RCORNER3	PY	-.021	-.021	0	0
19	SO1	PY	-.015	-.015	0	0
20	SO2	PY	-.015	-.015	0	0
21	SO3	PY	-.015	-.015	0	0

Member Distributed Loads (BLC 2 : Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	MP ALPHA1	PY	-.01	-.01	0	0
23	MP ALPHA2	PY	-.01	-.01	0	0
24	MP ALPHA3	PY	-.01	-.01	0	0
25	MP ALPHA4	PY	-.01	-.01	0	0
26	MP ALPHA5	PY	-.01	-.01	0	0
27	MP ALPHA6	PY	-.01	-.01	0	0
28	MP BETA1	PY	-.01	-.01	0	0
29	MP BETA2	PY	-.01	-.01	0	0
30	MP BETA3	PY	-.01	-.01	0	0
31	MP BETA4	PY	-.01	-.01	0	0
32	MP BETA5	PY	-.01	-.01	0	0
33	MP GAMMA1	PY	-.01	-.01	0	0
34	MP GAMMA2	PY	-.01	-.01	0	0
35	MP GAMMA3	PY	-.01	-.01	0	0
36	MP GAMMA4	PY	-.01	-.01	0	0
37	MP GAMMA5	PY	-.01	-.01	0	0

Member Distributed Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.009	-.009	0	0
2	ANGLE2	PY	-.009	-.009	0	0
3	ANGLE3	PY	-.009	-.009	0	0
4	CORNER1	PY	-.009	-.009	0	0
5	CORNER2	PY	-.009	-.009	0	0
6	CORNER3	PY	-.009	-.009	0	0
7	FACE1	PY	-.009	-.009	0	0
8	FACE2	PY	-.018	-.018	0	0
9	FACE3	PY	-.018	-.018	0	0
10	KICKER1	PY	-.005	-.005	0	0
11	KICKER2	PY	-.005	-.005	0	0
12	KICKER3	PY	-.005	-.005	0	0
13	RAIL1	PY	-.003	-.003	0	0
14	RAIL2	PY	-.005	-.005	0	0
15	RAIL3	PY	-.005	-.005	0	0
16	RCORNER1	PY	-.018	-.018	0	0
17	RCORNER2	PY	-.018	-.018	0	0
18	RCORNER3	PY	-.018	-.018	0	0
19	SO1	PY	-.013	-.013	0	0
20	SO2	PY	-.013	-.013	0	0
21	SO3	PY	-.013	-.013	0	0
22	MP ALPHA1	PY	-.009	-.009	0	0
23	MP ALPHA2	PY	-.009	-.009	0	0
24	MP ALPHA3	PY	-.009	-.009	0	0
25	MP ALPHA4	PY	-.009	-.009	0	0
26	MP ALPHA5	PY	-.009	-.009	0	0
27	MP ALPHA6	PY	-.009	-.009	0	0
28	MP BETA1	PY	-.009	-.009	0	0
29	MP BETA2	PY	-.009	-.009	0	0
30	MP BETA3	PY	-.009	-.009	0	0
31	MP BETA4	PY	-.009	-.009	0	0
32	MP BETA5	PY	-.009	-.009	0	0
33	MP GAMMA1	PY	-.009	-.009	0	0
34	MP GAMMA2	PY	-.009	-.009	0	0
35	MP GAMMA3	PY	-.009	-.009	0	0
36	MP GAMMA4	PY	-.009	-.009	0	0
37	MP GAMMA5	PY	-.009	-.009	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	ANGLE1	PX	-.005	-.005	0	0
39	ANGLE2	PX	-.005	-.005	0	0
40	ANGLE3	PX	-.005	-.005	0	0
41	CORNER1	PX	-.005	-.005	0	0
42	CORNER2	PX	-.005	-.005	0	0
43	CORNER3	PX	-.005	-.005	0	0
44	FACE1	PX	-.005	-.005	0	0
45	FACE2	PX	-.01	-.01	0	0
46	FACE3	PX	-.01	-.01	0	0
47	KICKER1	PX	-.003	-.003	0	0
48	KICKER2	PX	-.003	-.003	0	0
49	KICKER3	PX	-.003	-.003	0	0
50	RAIL1	PX	-.002	-.002	0	0
51	RAIL2	PX	-.003	-.003	0	0
52	RAIL3	PX	-.003	-.003	0	0
53	RCORNER1	PX	-.01	-.01	0	0
54	RCORNER2	PX	-.01	-.01	0	0
55	RCORNER3	PX	-.01	-.01	0	0
56	SO1	PX	-.008	-.008	0	0
57	SO2	PX	-.008	-.008	0	0
58	SO3	PX	-.008	-.008	0	0
59	MP ALPHA1	PX	-.005	-.005	0	0
60	MP ALPHA2	PX	-.005	-.005	0	0
61	MP ALPHA3	PX	-.005	-.005	0	0
62	MP ALPHA4	PX	-.005	-.005	0	0
63	MP ALPHA5	PX	-.005	-.005	0	0
64	MP ALPHA6	PX	-.005	-.005	0	0
65	MP BETA1	PX	-.005	-.005	0	0
66	MP BETA2	PX	-.005	-.005	0	0
67	MP BETA3	PX	-.005	-.005	0	0
68	MP BETA4	PX	-.005	-.005	0	0
69	MP BETA5	PX	-.005	-.005	0	0
70	MP GAMMA1	PX	-.005	-.005	0	0
71	MP GAMMA2	PX	-.005	-.005	0	0
72	MP GAMMA3	PX	-.005	-.005	0	0
73	MP GAMMA4	PX	-.005	-.005	0	0
74	MP GAMMA5	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.005	-.005	0	0
2	ANGLE2	PY	-.005	-.005	0	0
3	ANGLE3	PY	-.005	-.005	0	0
4	CORNER1	PY	-.005	-.005	0	0
5	CORNER2	PY	-.005	-.005	0	0
6	CORNER3	PY	-.005	-.005	0	0
7	FACE1	PY	-.005	-.005	0	0
8	FACE2	PY	-.01	-.01	0	0
9	FACE3	PY	-.01	-.01	0	0
10	KICKER1	PY	-.003	-.003	0	0
11	KICKER2	PY	-.003	-.003	0	0
12	KICKER3	PY	-.003	-.003	0	0
13	RAIL1	PY	-.002	-.002	0	0
14	RAIL2	PY	-.003	-.003	0	0
15	RAIL3	PY	-.003	-.003	0	0
16	RCORNER1	PY	-.01	-.01	0	0

Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	RCORNER2	PY	-.01	-.01	0	0
18	RCORNER3	PY	-.01	-.01	0	0
19	SO1	PY	-.008	-.008	0	0
20	SO2	PY	-.008	-.008	0	0
21	SO3	PY	-.008	-.008	0	0
22	MP ALPHA1	PY	-.005	-.005	0	0
23	MP ALPHA2	PY	-.005	-.005	0	0
24	MP ALPHA3	PY	-.005	-.005	0	0
25	MP ALPHA4	PY	-.005	-.005	0	0
26	MP ALPHA5	PY	-.005	-.005	0	0
27	MP ALPHA6	PY	-.005	-.005	0	0
28	MP BETA1	PY	-.005	-.005	0	0
29	MP BETA2	PY	-.005	-.005	0	0
30	MP BETA3	PY	-.005	-.005	0	0
31	MP BETA4	PY	-.005	-.005	0	0
32	MP BETA5	PY	-.005	-.005	0	0
33	MP GAMMA1	PY	-.005	-.005	0	0
34	MP GAMMA2	PY	-.005	-.005	0	0
35	MP GAMMA3	PY	-.005	-.005	0	0
36	MP GAMMA4	PY	-.005	-.005	0	0
37	MP GAMMA5	PY	-.005	-.005	0	0
38	ANGLE1	PX	-.009	-.009	0	0
39	ANGLE2	PX	-.009	-.009	0	0
40	ANGLE3	PX	-.009	-.009	0	0
41	CORNER1	PX	-.009	-.009	0	0
42	CORNER2	PX	-.009	-.009	0	0
43	CORNER3	PX	-.009	-.009	0	0
44	FACE1	PX	-.009	-.009	0	0
45	FACE2	PX	-.018	-.018	0	0
46	FACE3	PX	-.018	-.018	0	0
47	KICKER1	PX	-.005	-.005	0	0
48	KICKER2	PX	-.005	-.005	0	0
49	KICKER3	PX	-.005	-.005	0	0
50	RAIL1	PX	-.003	-.003	0	0
51	RAIL2	PX	-.005	-.005	0	0
52	RAIL3	PX	-.005	-.005	0	0
53	RCORNER1	PX	-.018	-.018	0	0
54	RCORNER2	PX	-.018	-.018	0	0
55	RCORNER3	PX	-.018	-.018	0	0
56	SO1	PX	-.013	-.013	0	0
57	SO2	PX	-.013	-.013	0	0
58	SO3	PX	-.013	-.013	0	0
59	MP ALPHA1	PX	-.009	-.009	0	0
60	MP ALPHA2	PX	-.009	-.009	0	0
61	MP ALPHA3	PX	-.009	-.009	0	0
62	MP ALPHA4	PX	-.009	-.009	0	0
63	MP ALPHA5	PX	-.009	-.009	0	0
64	MP ALPHA6	PX	-.009	-.009	0	0
65	MP BETA1	PX	-.009	-.009	0	0
66	MP BETA2	PX	-.009	-.009	0	0
67	MP BETA3	PX	-.009	-.009	0	0
68	MP BETA4	PX	-.009	-.009	0	0
69	MP BETA5	PX	-.009	-.009	0	0
70	MP GAMMA1	PX	-.009	-.009	0	0
71	MP GAMMA2	PX	-.009	-.009	0	0
72	MP GAMMA3	PX	-.009	-.009	0	0
73	MP GAMMA4	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	MP GAMMA5	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PX	-.01	-.01	0	0
2	ANGLE2	PX	-.01	-.01	0	0
3	ANGLE3	PX	-.01	-.01	0	0
4	CORNER1	PX	-.01	-.01	0	0
5	CORNER2	PX	-.01	-.01	0	0
6	CORNER3	PX	-.01	-.01	0	0
7	FACE2	PX	-.01	-.01	0	0
8	FACE1	PX	-.021	-.021	0	0
9	FACE3	PX	-.021	-.021	0	0
10	KICKER1	PX	-.006	-.006	0	0
11	KICKER2	PX	-.006	-.006	0	0
12	KICKER3	PX	-.006	-.006	0	0
13	RAIL2	PX	-.003	-.003	0	0
14	RAIL1	PX	-.006	-.006	0	0
15	RAIL3	PX	-.006	-.006	0	0
16	RCORNER1	PX	-.021	-.021	0	0
17	RCORNER2	PX	-.021	-.021	0	0
18	RCORNER3	PX	-.021	-.021	0	0
19	SO1	PX	-.015	-.015	0	0
20	SO2	PX	-.015	-.015	0	0
21	SO3	PX	-.015	-.015	0	0
22	MP ALPHA1	PX	-.01	-.01	0	0
23	MP ALPHA2	PX	-.01	-.01	0	0
24	MP ALPHA3	PX	-.01	-.01	0	0
25	MP ALPHA4	PX	-.01	-.01	0	0
26	MP ALPHA5	PX	-.01	-.01	0	0
27	MP ALPHA6	PX	-.01	-.01	0	0
28	MP BETA1	PX	-.01	-.01	0	0
29	MP BETA2	PX	-.01	-.01	0	0
30	MP BETA3	PX	-.01	-.01	0	0
31	MP BETA4	PX	-.01	-.01	0	0
32	MP BETA5	PX	-.01	-.01	0	0
33	MP GAMMA1	PX	-.01	-.01	0	0
34	MP GAMMA2	PX	-.01	-.01	0	0
35	MP GAMMA3	PX	-.01	-.01	0	0
36	MP GAMMA4	PX	-.01	-.01	0	0
37	MP GAMMA5	PX	-.01	-.01	0	0

Member Distributed Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.005	.005	0	0
2	ANGLE2	PY	.005	.005	0	0
3	ANGLE3	PY	.005	.005	0	0
4	CORNER1	PY	.005	.005	0	0
5	CORNER2	PY	.005	.005	0	0
6	CORNER3	PY	.005	.005	0	0
7	FACE2	PY	.005	.005	0	0
8	FACE1	PY	.01	.01	0	0
9	FACE3	PY	.01	.01	0	0
10	KICKER1	PY	.003	.003	0	0
11	KICKER2	PY	.003	.003	0	0
12	KICKER3	PY	.003	.003	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	RAIL2	PY	.002	.002	0	0
14	RAIL1	PY	.003	.003	0	0
15	RAIL3	PY	.003	.003	0	0
16	RCORNER1	PY	.01	.01	0	0
17	RCORNER2	PY	.01	.01	0	0
18	RCORNER3	PY	.01	.01	0	0
19	SO1	PY	.008	.008	0	0
20	SO2	PY	.008	.008	0	0
21	SO3	PY	.008	.008	0	0
22	MP ALPHA1	PY	.005	.005	0	0
23	MP ALPHA2	PY	.005	.005	0	0
24	MP ALPHA3	PY	.005	.005	0	0
25	MP ALPHA4	PY	.005	.005	0	0
26	MP ALPHA5	PY	.005	.005	0	0
27	MP ALPHA6	PY	.005	.005	0	0
28	MP BETA1	PY	.005	.005	0	0
29	MP BETA2	PY	.005	.005	0	0
30	MP BETA3	PY	.005	.005	0	0
31	MP BETA4	PY	.005	.005	0	0
32	MP BETA5	PY	.005	.005	0	0
33	MP GAMMA1	PY	.005	.005	0	0
34	MP GAMMA2	PY	.005	.005	0	0
35	MP GAMMA3	PY	.005	.005	0	0
36	MP GAMMA4	PY	.005	.005	0	0
37	MP GAMMA5	PY	.005	.005	0	0
38	ANGLE1	PX	-.009	-.009	0	0
39	ANGLE2	PX	-.009	-.009	0	0
40	ANGLE3	PX	-.009	-.009	0	0
41	CORNER1	PX	-.009	-.009	0	0
42	CORNER2	PX	-.009	-.009	0	0
43	CORNER3	PX	-.009	-.009	0	0
44	FACE2	PX	-.009	-.009	0	0
45	FACE1	PX	-.018	-.018	0	0
46	FACE3	PX	-.018	-.018	0	0
47	KICKER1	PX	-.005	-.005	0	0
48	KICKER2	PX	-.005	-.005	0	0
49	KICKER3	PX	-.005	-.005	0	0
50	RAIL2	PX	-.003	-.003	0	0
51	RAIL1	PX	-.005	-.005	0	0
52	RAIL3	PX	-.005	-.005	0	0
53	RCORNER1	PX	-.018	-.018	0	0
54	RCORNER2	PX	-.018	-.018	0	0
55	RCORNER3	PX	-.018	-.018	0	0
56	SO1	PX	-.013	-.013	0	0
57	SO2	PX	-.013	-.013	0	0
58	SO3	PX	-.013	-.013	0	0
59	MP ALPHA1	PX	-.009	-.009	0	0
60	MP ALPHA2	PX	-.009	-.009	0	0
61	MP ALPHA3	PX	-.009	-.009	0	0
62	MP ALPHA4	PX	-.009	-.009	0	0
63	MP ALPHA5	PX	-.009	-.009	0	0
64	MP ALPHA6	PX	-.009	-.009	0	0
65	MP BETA1	PX	-.009	-.009	0	0
66	MP BETA2	PX	-.009	-.009	0	0
67	MP BETA3	PX	-.009	-.009	0	0
68	MP BETA4	PX	-.009	-.009	0	0
69	MP BETA5	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
70	MP GAMMA1	PX	-.009	-.009	0	0
71	MP GAMMA2	PX	-.009	-.009	0	0
72	MP GAMMA3	PX	-.009	-.009	0	0
73	MP GAMMA4	PX	-.009	-.009	0	0
74	MP GAMMA5	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.009	.009	0	0
2	ANGLE2	PY	.009	.009	0	0
3	ANGLE3	PY	.009	.009	0	0
4	CORNER1	PY	.009	.009	0	0
5	CORNER2	PY	.009	.009	0	0
6	CORNER3	PY	.009	.009	0	0
7	FACE2	PY	.009	.009	0	0
8	FACE1	PY	.018	.018	0	0
9	FACE3	PY	.018	.018	0	0
10	KICKER1	PY	.005	.005	0	0
11	KICKER2	PY	.005	.005	0	0
12	KICKER3	PY	.005	.005	0	0
13	RAIL2	PY	.003	.003	0	0
14	RAIL1	PY	.005	.005	0	0
15	RAIL3	PY	.005	.005	0	0
16	RCORNER1	PY	.018	.018	0	0
17	RCORNER2	PY	.018	.018	0	0
18	RCORNER3	PY	.018	.018	0	0
19	SO1	PY	.013	.013	0	0
20	SO2	PY	.013	.013	0	0
21	SO3	PY	.013	.013	0	0
22	MP ALPHA1	PY	.009	.009	0	0
23	MP ALPHA2	PY	.009	.009	0	0
24	MP ALPHA3	PY	.009	.009	0	0
25	MP ALPHA4	PY	.009	.009	0	0
26	MP ALPHA5	PY	.009	.009	0	0
27	MP ALPHA6	PY	.009	.009	0	0
28	MP BETA1	PY	.009	.009	0	0
29	MP BETA2	PY	.009	.009	0	0
30	MP BETA3	PY	.009	.009	0	0
31	MP BETA4	PY	.009	.009	0	0
32	MP BETA5	PY	.009	.009	0	0
33	MP GAMMA1	PY	.009	.009	0	0
34	MP GAMMA2	PY	.009	.009	0	0
35	MP GAMMA3	PY	.009	.009	0	0
36	MP GAMMA4	PY	.009	.009	0	0
37	MP GAMMA5	PY	.009	.009	0	0
38	ANGLE1	PX	-.005	-.005	0	0
39	ANGLE2	PX	-.005	-.005	0	0
40	ANGLE3	PX	-.005	-.005	0	0
41	CORNER1	PX	-.005	-.005	0	0
42	CORNER2	PX	-.005	-.005	0	0
43	CORNER3	PX	-.005	-.005	0	0
44	FACE2	PX	-.005	-.005	0	0
45	FACE1	PX	-.01	-.01	0	0
46	FACE3	PX	-.01	-.01	0	0
47	KICKER1	PX	-.003	-.003	0	0
48	KICKER2	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
49	KICKER3	PX	-.003	-.003	0	0
50	RAIL2	PX	-.002	-.002	0	0
51	RAIL1	PX	-.003	-.003	0	0
52	RAIL3	PX	-.003	-.003	0	0
53	RCORNER1	PX	-.01	-.01	0	0
54	RCORNER2	PX	-.01	-.01	0	0
55	RCORNER3	PX	-.01	-.01	0	0
56	SO1	PX	-.008	-.008	0	0
57	SO2	PX	-.008	-.008	0	0
58	SO3	PX	-.008	-.008	0	0
59	MP ALPHA1	PX	-.005	-.005	0	0
60	MP ALPHA2	PX	-.005	-.005	0	0
61	MP ALPHA3	PX	-.005	-.005	0	0
62	MP ALPHA4	PX	-.005	-.005	0	0
63	MP ALPHA5	PX	-.005	-.005	0	0
64	MP ALPHA6	PX	-.005	-.005	0	0
65	MP BETA1	PX	-.005	-.005	0	0
66	MP BETA2	PX	-.005	-.005	0	0
67	MP BETA3	PX	-.005	-.005	0	0
68	MP BETA4	PX	-.005	-.005	0	0
69	MP BETA5	PX	-.005	-.005	0	0
70	MP GAMMA1	PX	-.005	-.005	0	0
71	MP GAMMA2	PX	-.005	-.005	0	0
72	MP GAMMA3	PX	-.005	-.005	0	0
73	MP GAMMA4	PX	-.005	-.005	0	0
74	MP GAMMA5	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.01	.01	0	0
2	ANGLE2	PY	.01	.01	0	0
3	ANGLE3	PY	.01	.01	0	0
4	CORNER1	PY	.01	.01	0	0
5	CORNER2	PY	.01	.01	0	0
6	CORNER3	PY	.01	.01	0	0
7	FACE2	PY	.01	.01	0	0
8	FACE1	PY	.021	.021	0	0
9	FACE3	PY	.021	.021	0	0
10	KICKER1	PY	.006	.006	0	0
11	KICKER2	PY	.006	.006	0	0
12	KICKER3	PY	.006	.006	0	0
13	RAIL2	PY	.003	.003	0	0
14	RAIL1	PY	.006	.006	0	0
15	RAIL3	PY	.006	.006	0	0
16	RCORNER1	PY	.021	.021	0	0
17	RCORNER2	PY	.021	.021	0	0
18	RCORNER3	PY	.021	.021	0	0
19	SO1	PY	.015	.015	0	0
20	SO2	PY	.015	.015	0	0
21	SO3	PY	.015	.015	0	0
22	MP ALPHA1	PY	.01	.01	0	0
23	MP ALPHA2	PY	.01	.01	0	0
24	MP ALPHA3	PY	.01	.01	0	0
25	MP ALPHA4	PY	.01	.01	0	0
26	MP ALPHA5	PY	.01	.01	0	0
27	MP ALPHA6	PY	.01	.01	0	0

Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
28	MP BETA1	PY	.01	.01	0	0
29	MP BETA2	PY	.01	.01	0	0
30	MP BETA3	PY	.01	.01	0	0
31	MP BETA4	PY	.01	.01	0	0
32	MP BETA5	PY	.01	.01	0	0
33	MP GAMMA1	PY	.01	.01	0	0
34	MP GAMMA2	PY	.01	.01	0	0
35	MP GAMMA3	PY	.01	.01	0	0
36	MP GAMMA4	PY	.01	.01	0	0
37	MP GAMMA5	PY	.01	.01	0	0

Member Distributed Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.009	.009	0	0
2	ANGLE2	PY	.009	.009	0	0
3	ANGLE3	PY	.009	.009	0	0
4	CORNER1	PY	.009	.009	0	0
5	CORNER2	PY	.009	.009	0	0
6	CORNER3	PY	.009	.009	0	0
7	FACE3	PY	.009	.009	0	0
8	FACE1	PY	.018	.018	0	0
9	FACE2	PY	.018	.018	0	0
10	KICKER1	PY	.005	.005	0	0
11	KICKER2	PY	.005	.005	0	0
12	KICKER3	PY	.005	.005	0	0
13	RAIL3	PY	.003	.003	0	0
14	RAIL1	PY	.005	.005	0	0
15	RAIL2	PY	.005	.005	0	0
16	RCORNER1	PY	.018	.018	0	0
17	RCORNER2	PY	.018	.018	0	0
18	RCORNER3	PY	.018	.018	0	0
19	SO1	PY	.013	.013	0	0
20	SO2	PY	.013	.013	0	0
21	SO3	PY	.013	.013	0	0
22	MP ALPHA1	PY	.009	.009	0	0
23	MP ALPHA2	PY	.009	.009	0	0
24	MP ALPHA3	PY	.009	.009	0	0
25	MP ALPHA4	PY	.009	.009	0	0
26	MP ALPHA5	PY	.009	.009	0	0
27	MP ALPHA6	PY	.009	.009	0	0
28	MP BETA1	PY	.009	.009	0	0
29	MP BETA2	PY	.009	.009	0	0
30	MP BETA3	PY	.009	.009	0	0
31	MP BETA4	PY	.009	.009	0	0
32	MP BETA5	PY	.009	.009	0	0
33	MP GAMMA1	PY	.009	.009	0	0
34	MP GAMMA2	PY	.009	.009	0	0
35	MP GAMMA3	PY	.009	.009	0	0
36	MP GAMMA4	PY	.009	.009	0	0
37	MP GAMMA5	PY	.009	.009	0	0
38	ANGLE1	PX	.005	.005	0	0
39	ANGLE2	PX	.005	.005	0	0
40	ANGLE3	PX	.005	.005	0	0
41	CORNER1	PX	.005	.005	0	0
42	CORNER2	PX	.005	.005	0	0
43	CORNER3	PX	.005	.005	0	0

Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	FACE3	PX	.005	.005	0	0
45	FACE1	PX	.01	.01	0	0
46	FACE2	PX	.01	.01	0	0
47	KICKER1	PX	.003	.003	0	0
48	KICKER2	PX	.003	.003	0	0
49	KICKER3	PX	.003	.003	0	0
50	RAIL3	PX	.002	.002	0	0
51	RAIL1	PX	.003	.003	0	0
52	RAIL2	PX	.003	.003	0	0
53	RCORNER1	PX	.01	.01	0	0
54	RCORNER2	PX	.01	.01	0	0
55	RCORNER3	PX	.01	.01	0	0
56	SO1	PX	.008	.008	0	0
57	SO2	PX	.008	.008	0	0
58	SO3	PX	.008	.008	0	0
59	MP ALPHA1	PX	.005	.005	0	0
60	MP ALPHA2	PX	.005	.005	0	0
61	MP ALPHA3	PX	.005	.005	0	0
62	MP ALPHA4	PX	.005	.005	0	0
63	MP ALPHA5	PX	.005	.005	0	0
64	MP ALPHA6	PX	.005	.005	0	0
65	MP BETA1	PX	.005	.005	0	0
66	MP BETA2	PX	.005	.005	0	0
67	MP BETA3	PX	.005	.005	0	0
68	MP BETA4	PX	.005	.005	0	0
69	MP BETA5	PX	.005	.005	0	0
70	MP GAMMA1	PX	.005	.005	0	0
71	MP GAMMA2	PX	.005	.005	0	0
72	MP GAMMA3	PX	.005	.005	0	0
73	MP GAMMA4	PX	.005	.005	0	0
74	MP GAMMA5	PX	.005	.005	0	0

Member Distributed Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.005	.005	0	0
2	ANGLE2	PY	.005	.005	0	0
3	ANGLE3	PY	.005	.005	0	0
4	CORNER1	PY	.005	.005	0	0
5	CORNER2	PY	.005	.005	0	0
6	CORNER3	PY	.005	.005	0	0
7	FACE3	PY	.005	.005	0	0
8	FACE1	PY	.01	.01	0	0
9	FACE2	PY	.01	.01	0	0
10	KICKER1	PY	.003	.003	0	0
11	KICKER2	PY	.003	.003	0	0
12	KICKER3	PY	.003	.003	0	0
13	RAIL3	PY	.002	.002	0	0
14	RAIL1	PY	.003	.003	0	0
15	RAIL2	PY	.003	.003	0	0
16	RCORNER1	PY	.01	.01	0	0
17	RCORNER2	PY	.01	.01	0	0
18	RCORNER3	PY	.01	.01	0	0
19	SO1	PY	.008	.008	0	0
20	SO2	PY	.008	.008	0	0
21	SO3	PY	.008	.008	0	0
22	MP ALPHA1	PY	.005	.005	0	0

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	MP ALPHA2	PY	.005	.005	0	0
24	MP ALPHA3	PY	.005	.005	0	0
25	MP ALPHA4	PY	.005	.005	0	0
26	MP ALPHA5	PY	.005	.005	0	0
27	MP ALPHA6	PY	.005	.005	0	0
28	MP BETA1	PY	.005	.005	0	0
29	MP BETA2	PY	.005	.005	0	0
30	MP BETA3	PY	.005	.005	0	0
31	MP BETA4	PY	.005	.005	0	0
32	MP BETA5	PY	.005	.005	0	0
33	MP GAMMA1	PY	.005	.005	0	0
34	MP GAMMA2	PY	.005	.005	0	0
35	MP GAMMA3	PY	.005	.005	0	0
36	MP GAMMA4	PY	.005	.005	0	0
37	MP GAMMA5	PY	.005	.005	0	0
38	ANGLE1	PX	.009	.009	0	0
39	ANGLE2	PX	.009	.009	0	0
40	ANGLE3	PX	.009	.009	0	0
41	CORNER1	PX	.009	.009	0	0
42	CORNER2	PX	.009	.009	0	0
43	CORNER3	PX	.009	.009	0	0
44	FACE3	PX	.009	.009	0	0
45	FACE1	PX	.018	.018	0	0
46	FACE2	PX	.018	.018	0	0
47	KICKER1	PX	.005	.005	0	0
48	KICKER2	PX	.005	.005	0	0
49	KICKER3	PX	.005	.005	0	0
50	RAIL3	PX	.003	.003	0	0
51	RAIL1	PX	.005	.005	0	0
52	RAIL2	PX	.005	.005	0	0
53	RCORNER1	PX	.018	.018	0	0
54	RCORNER2	PX	.018	.018	0	0
55	RCORNER3	PX	.018	.018	0	0
56	SO1	PX	.013	.013	0	0
57	SO2	PX	.013	.013	0	0
58	SO3	PX	.013	.013	0	0
59	MP ALPHA1	PX	.009	.009	0	0
60	MP ALPHA2	PX	.009	.009	0	0
61	MP ALPHA3	PX	.009	.009	0	0
62	MP ALPHA4	PX	.009	.009	0	0
63	MP ALPHA5	PX	.009	.009	0	0
64	MP ALPHA6	PX	.009	.009	0	0
65	MP BETA1	PX	.009	.009	0	0
66	MP BETA2	PX	.009	.009	0	0
67	MP BETA3	PX	.009	.009	0	0
68	MP BETA4	PX	.009	.009	0	0
69	MP BETA5	PX	.009	.009	0	0
70	MP GAMMA1	PX	.009	.009	0	0
71	MP GAMMA2	PX	.009	.009	0	0
72	MP GAMMA3	PX	.009	.009	0	0
73	MP GAMMA4	PX	.009	.009	0	0
74	MP GAMMA5	PX	.009	.009	0	0

Member Distributed Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PX	.01	.01	0	0

Member Distributed Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	ANGLE2	PX	.01	.01	0	0
3	ANGLE3	PX	.01	.01	0	0
4	CORNER1	PX	.01	.01	0	0
5	CORNER2	PX	.01	.01	0	0
6	CORNER3	PX	.01	.01	0	0
7	FACE3	PX	.01	.01	0	0
8	FACE1	PX	.021	.021	0	0
9	FACE2	PX	.021	.021	0	0
10	KICKER1	PX	.006	.006	0	0
11	KICKER2	PX	.006	.006	0	0
12	KICKER3	PX	.006	.006	0	0
13	RAIL3	PX	.003	.003	0	0
14	RAIL1	PX	.006	.006	0	0
15	RAIL2	PX	.006	.006	0	0
16	RCORNER1	PX	.021	.021	0	0
17	RCORNER2	PX	.021	.021	0	0
18	RCORNER3	PX	.021	.021	0	0
19	SO1	PX	.015	.015	0	0
20	SO2	PX	.015	.015	0	0
21	SO3	PX	.015	.015	0	0
22	MP ALPHA1	PX	.01	.01	0	0
23	MP ALPHA2	PX	.01	.01	0	0
24	MP ALPHA3	PX	.01	.01	0	0
25	MP ALPHA4	PX	.01	.01	0	0
26	MP ALPHA5	PX	.01	.01	0	0
27	MP ALPHA6	PX	.01	.01	0	0
28	MP BETA1	PX	.01	.01	0	0
29	MP BETA2	PX	.01	.01	0	0
30	MP BETA3	PX	.01	.01	0	0
31	MP BETA4	PX	.01	.01	0	0
32	MP BETA5	PX	.01	.01	0	0
33	MP GAMMA1	PX	.01	.01	0	0
34	MP GAMMA2	PX	.01	.01	0	0
35	MP GAMMA3	PX	.01	.01	0	0
36	MP GAMMA4	PX	.01	.01	0	0
37	MP GAMMA5	PX	.01	.01	0	0

Member Distributed Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.005	-.005	0	0
2	ANGLE2	PY	-.005	-.005	0	0
3	ANGLE3	PY	-.005	-.005	0	0
4	CORNER1	PY	-.005	-.005	0	0
5	CORNER2	PY	-.005	-.005	0	0
6	CORNER3	PY	-.005	-.005	0	0
7	FACE3	PY	-.005	-.005	0	0
8	FACE1	PY	-.01	-.01	0	0
9	FACE2	PY	-.01	-.01	0	0
10	KICKER1	PY	-.003	-.003	0	0
11	KICKER2	PY	-.003	-.003	0	0
12	KICKER3	PY	-.003	-.003	0	0
13	RAIL3	PY	-.002	-.002	0	0
14	RAIL1	PY	-.003	-.003	0	0
15	RAIL2	PY	-.003	-.003	0	0
16	RCORNER1	PY	-.01	-.01	0	0
17	RCORNER2	PY	-.01	-.01	0	0

Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	RCORNER3	PY	-.01	-.01	0	0
19	SO1	PY	-.008	-.008	0	0
20	SO2	PY	-.008	-.008	0	0
21	SO3	PY	-.008	-.008	0	0
22	MP ALPHA1	PY	-.005	-.005	0	0
23	MP ALPHA2	PY	-.005	-.005	0	0
24	MP ALPHA3	PY	-.005	-.005	0	0
25	MP ALPHA4	PY	-.005	-.005	0	0
26	MP ALPHA5	PY	-.005	-.005	0	0
27	MP ALPHA6	PY	-.005	-.005	0	0
28	MP BETA1	PY	-.005	-.005	0	0
29	MP BETA2	PY	-.005	-.005	0	0
30	MP BETA3	PY	-.005	-.005	0	0
31	MP BETA4	PY	-.005	-.005	0	0
32	MP BETA5	PY	-.005	-.005	0	0
33	MP GAMMA1	PY	-.005	-.005	0	0
34	MP GAMMA2	PY	-.005	-.005	0	0
35	MP GAMMA3	PY	-.005	-.005	0	0
36	MP GAMMA4	PY	-.005	-.005	0	0
37	MP GAMMA5	PY	-.005	-.005	0	0
38	ANGLE1	PX	.009	.009	0	0
39	ANGLE2	PX	.009	.009	0	0
40	ANGLE3	PX	.009	.009	0	0
41	CORNER1	PX	.009	.009	0	0
42	CORNER2	PX	.009	.009	0	0
43	CORNER3	PX	.009	.009	0	0
44	FACE3	PX	.009	.009	0	0
45	FACE1	PX	.018	.018	0	0
46	FACE2	PX	.018	.018	0	0
47	KICKER1	PX	.005	.005	0	0
48	KICKER2	PX	.005	.005	0	0
49	KICKER3	PX	.005	.005	0	0
50	RAIL3	PX	.003	.003	0	0
51	RAIL1	PX	.005	.005	0	0
52	RAIL2	PX	.005	.005	0	0
53	RCORNER1	PX	.018	.018	0	0
54	RCORNER2	PX	.018	.018	0	0
55	RCORNER3	PX	.018	.018	0	0
56	SO1	PX	.013	.013	0	0
57	SO2	PX	.013	.013	0	0
58	SO3	PX	.013	.013	0	0
59	MP ALPHA1	PX	.009	.009	0	0
60	MP ALPHA2	PX	.009	.009	0	0
61	MP ALPHA3	PX	.009	.009	0	0
62	MP ALPHA4	PX	.009	.009	0	0
63	MP ALPHA5	PX	.009	.009	0	0
64	MP ALPHA6	PX	.009	.009	0	0
65	MP BETA1	PX	.009	.009	0	0
66	MP BETA2	PX	.009	.009	0	0
67	MP BETA3	PX	.009	.009	0	0
68	MP BETA4	PX	.009	.009	0	0
69	MP BETA5	PX	.009	.009	0	0
70	MP GAMMA1	PX	.009	.009	0	0
71	MP GAMMA2	PX	.009	.009	0	0
72	MP GAMMA3	PX	.009	.009	0	0
73	MP GAMMA4	PX	.009	.009	0	0
74	MP GAMMA5	PX	.009	.009	0	0

Member Distributed Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.009	-.009	0	0
2	ANGLE2	PY	-.009	-.009	0	0
3	ANGLE3	PY	-.009	-.009	0	0
4	CORNER1	PY	-.009	-.009	0	0
5	CORNER2	PY	-.009	-.009	0	0
6	CORNER3	PY	-.009	-.009	0	0
7	FACE1	PY	-.009	-.009	0	0
8	FACE2	PY	-.018	-.018	0	0
9	FACE3	PY	-.018	-.018	0	0
10	KICKER1	PY	-.005	-.005	0	0
11	KICKER2	PY	-.005	-.005	0	0
12	KICKER3	PY	-.005	-.005	0	0
13	RAIL1	PY	-.003	-.003	0	0
14	RAIL2	PY	-.005	-.005	0	0
15	RAIL3	PY	-.005	-.005	0	0
16	RCORNER1	PY	-.018	-.018	0	0
17	RCORNER2	PY	-.018	-.018	0	0
18	RCORNER3	PY	-.018	-.018	0	0
19	SO1	PY	-.013	-.013	0	0
20	SO2	PY	-.013	-.013	0	0
21	SO3	PY	-.013	-.013	0	0
22	MP ALPHA1	PY	-.009	-.009	0	0
23	MP ALPHA2	PY	-.009	-.009	0	0
24	MP ALPHA3	PY	-.009	-.009	0	0
25	MP ALPHA4	PY	-.009	-.009	0	0
26	MP ALPHA5	PY	-.009	-.009	0	0
27	MP ALPHA6	PY	-.009	-.009	0	0
28	MP BETA1	PY	-.009	-.009	0	0
29	MP BETA2	PY	-.009	-.009	0	0
30	MP BETA3	PY	-.009	-.009	0	0
31	MP BETA4	PY	-.009	-.009	0	0
32	MP BETA5	PY	-.009	-.009	0	0
33	MP GAMMA1	PY	-.009	-.009	0	0
34	MP GAMMA2	PY	-.009	-.009	0	0
35	MP GAMMA3	PY	-.009	-.009	0	0
36	MP GAMMA4	PY	-.009	-.009	0	0
37	MP GAMMA5	PY	-.009	-.009	0	0
38	ANGLE1	PX	.005	.005	0	0
39	ANGLE2	PX	.005	.005	0	0
40	ANGLE3	PX	.005	.005	0	0
41	CORNER1	PX	.005	.005	0	0
42	CORNER2	PX	.005	.005	0	0
43	CORNER3	PX	.005	.005	0	0
44	FACE1	PX	.005	.005	0	0
45	FACE2	PX	.01	.01	0	0
46	FACE3	PX	.01	.01	0	0
47	KICKER1	PX	.003	.003	0	0
48	KICKER2	PX	.003	.003	0	0
49	KICKER3	PX	.003	.003	0	0
50	RAIL1	PX	.002	.002	0	0
51	RAIL2	PX	.003	.003	0	0
52	RAIL3	PX	.003	.003	0	0
53	RCORNER1	PX	.01	.01	0	0
54	RCORNER2	PX	.01	.01	0	0
55	RCORNER3	PX	.01	.01	0	0
56	SO1	PX	.008	.008	0	0
57	SO2	PX	.008	.008	0	0

Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	SO3	PX	.008	.008	0	0
59	MP ALPHA1	PX	.005	.005	0	0
60	MP ALPHA2	PX	.005	.005	0	0
61	MP ALPHA3	PX	.005	.005	0	0
62	MP ALPHA4	PX	.005	.005	0	0
63	MP ALPHA5	PX	.005	.005	0	0
64	MP ALPHA6	PX	.005	.005	0	0
65	MP BETA1	PX	.005	.005	0	0
66	MP BETA2	PX	.005	.005	0	0
67	MP BETA3	PX	.005	.005	0	0
68	MP BETA4	PX	.005	.005	0	0
69	MP BETA5	PX	.005	.005	0	0
70	MP GAMMA1	PX	.005	.005	0	0
71	MP GAMMA2	PX	.005	.005	0	0
72	MP GAMMA3	PX	.005	.005	0	0
73	MP GAMMA4	PX	.005	.005	0	0
74	MP GAMMA5	PX	.005	.005	0	0

Member Distributed Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.000628	-.000628	0	0
2	ANGLE2	PY	-.000628	-.000628	0	0
3	ANGLE3	PY	-.000628	-.000628	0	0
4	CORNER1	PY	-.000628	-.000628	0	0
5	CORNER2	PY	-.000628	-.000628	0	0
6	CORNER3	PY	-.000628	-.000628	0	0
7	FACE1	PY	-.000628	-.000628	0	0
8	FACE2	PY	-.001	-.001	0	0
9	FACE3	PY	-.001	-.001	0	0
10	KICKER1	PY	-.000376	-.000376	0	0
11	KICKER2	PY	-.000376	-.000376	0	0
12	KICKER3	PY	-.000376	-.000376	0	0
13	RAIL1	PY	-.000188	-.000188	0	0
14	RAIL2	PY	-.000376	-.000376	0	0
15	RAIL3	PY	-.000376	-.000376	0	0
16	RCORNER1	PY	-.001	-.001	0	0
17	RCORNER2	PY	-.001	-.001	0	0
18	RCORNER3	PY	-.001	-.001	0	0
19	SO1	PY	-.000916	-.000916	0	0
20	SO2	PY	-.000916	-.000916	0	0
21	SO3	PY	-.000916	-.000916	0	0
22	MP ALPHA1	PY	-.000597	-.000597	0	0
23	MP ALPHA2	PY	-.000597	-.000597	0	0
24	MP ALPHA3	PY	-.000597	-.000597	0	0
25	MP ALPHA4	PY	-.000597	-.000597	0	0
26	MP ALPHA5	PY	-.000597	-.000597	0	0
27	MP ALPHA6	PY	-.000597	-.000597	0	0
28	MP BETA1	PY	-.000597	-.000597	0	0
29	MP BETA2	PY	-.000597	-.000597	0	0
30	MP BETA3	PY	-.000597	-.000597	0	0
31	MP BETA4	PY	-.000597	-.000597	0	0
32	MP BETA5	PY	-.000597	-.000597	0	0
33	MP GAMMA1	PY	-.000597	-.000597	0	0
34	MP GAMMA2	PY	-.000597	-.000597	0	0
35	MP GAMMA3	PY	-.000597	-.000597	0	0
36	MP GAMMA4	PY	-.000597	-.000597	0	0

Member Distributed Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP GAMMA5	PY	-.000597	-.000597	0	0

Member Distributed Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.000544	-.000544	0	0
2	ANGLE2	PY	-.000544	-.000544	0	0
3	ANGLE3	PY	-.000544	-.000544	0	0
4	CORNER1	PY	-.000544	-.000544	0	0
5	CORNER2	PY	-.000544	-.000544	0	0
6	CORNER3	PY	-.000544	-.000544	0	0
7	FACE1	PY	-.000544	-.000544	0	0
8	FACE2	PY	-.001	-.001	0	0
9	FACE3	PY	-.001	-.001	0	0
10	KICKER1	PY	-.000326	-.000326	0	0
11	KICKER2	PY	-.000326	-.000326	0	0
12	KICKER3	PY	-.000326	-.000326	0	0
13	RAIL1	PY	-.000163	-.000163	0	0
14	RAIL2	PY	-.000326	-.000326	0	0
15	RAIL3	PY	-.000326	-.000326	0	0
16	RCORNER1	PY	-.001	-.001	0	0
17	RCORNER2	PY	-.001	-.001	0	0
18	RCORNER3	PY	-.001	-.001	0	0
19	SO1	PY	-.000794	-.000794	0	0
20	SO2	PY	-.000794	-.000794	0	0
21	SO3	PY	-.000794	-.000794	0	0
22	MP ALPHA1	PY	-.000517	-.000517	0	0
23	MP ALPHA2	PY	-.000517	-.000517	0	0
24	MP ALPHA3	PY	-.000517	-.000517	0	0
25	MP ALPHA4	PY	-.000517	-.000517	0	0
26	MP ALPHA5	PY	-.000517	-.000517	0	0
27	MP ALPHA6	PY	-.000517	-.000517	0	0
28	MP BETA1	PY	-.000517	-.000517	0	0
29	MP BETA2	PY	-.000517	-.000517	0	0
30	MP BETA3	PY	-.000517	-.000517	0	0
31	MP BETA4	PY	-.000517	-.000517	0	0
32	MP BETA5	PY	-.000517	-.000517	0	0
33	MP GAMMA1	PY	-.000517	-.000517	0	0
34	MP GAMMA2	PY	-.000517	-.000517	0	0
35	MP GAMMA3	PY	-.000517	-.000517	0	0
36	MP GAMMA4	PY	-.000517	-.000517	0	0
37	MP GAMMA5	PY	-.000517	-.000517	0	0
38	ANGLE1	PX	-.000314	-.000314	0	0
39	ANGLE2	PX	-.000314	-.000314	0	0
40	ANGLE3	PX	-.000314	-.000314	0	0
41	CORNER1	PX	-.000314	-.000314	0	0
42	CORNER2	PX	-.000314	-.000314	0	0
43	CORNER3	PX	-.000314	-.000314	0	0
44	FACE1	PX	-.000314	-.000314	0	0
45	FACE2	PX	-.000628	-.000628	0	0
46	FACE3	PX	-.000628	-.000628	0	0
47	KICKER1	PX	-.000188	-.000188	0	0
48	KICKER2	PX	-.000188	-.000188	0	0
49	KICKER3	PX	-.000188	-.000188	0	0
50	RAIL1	PX	-9.4e-5	-9.4e-5	0	0
51	RAIL2	PX	-.000188	-.000188	0	0
52	RAIL3	PX	-.000188	-.000188	0	0

Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	RCORNER1	PX	-.000628	-.000628	0	0
54	RCORNER2	PX	-.000628	-.000628	0	0
55	RCORNER3	PX	-.000628	-.000628	0	0
56	SO1	PX	-.000458	-.000458	0	0
57	SO2	PX	-.000458	-.000458	0	0
58	SO3	PX	-.000458	-.000458	0	0
59	MP ALPHA1	PX	-.000298	-.000298	0	0
60	MP ALPHA2	PX	-.000298	-.000298	0	0
61	MP ALPHA3	PX	-.000298	-.000298	0	0
62	MP ALPHA4	PX	-.000298	-.000298	0	0
63	MP ALPHA5	PX	-.000298	-.000298	0	0
64	MP ALPHA6	PX	-.000298	-.000298	0	0
65	MP BETA1	PX	-.000298	-.000298	0	0
66	MP BETA2	PX	-.000298	-.000298	0	0
67	MP BETA3	PX	-.000298	-.000298	0	0
68	MP BETA4	PX	-.000298	-.000298	0	0
69	MP BETA5	PX	-.000298	-.000298	0	0
70	MP GAMMA1	PX	-.000298	-.000298	0	0
71	MP GAMMA2	PX	-.000298	-.000298	0	0
72	MP GAMMA3	PX	-.000298	-.000298	0	0
73	MP GAMMA4	PX	-.000298	-.000298	0	0
74	MP GAMMA5	PX	-.000298	-.000298	0	0

Member Distributed Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.000314	-.000314	0	0
2	ANGLE2	PY	-.000314	-.000314	0	0
3	ANGLE3	PY	-.000314	-.000314	0	0
4	CORNER1	PY	-.000314	-.000314	0	0
5	CORNER2	PY	-.000314	-.000314	0	0
6	CORNER3	PY	-.000314	-.000314	0	0
7	FACE1	PY	-.000314	-.000314	0	0
8	FACE2	PY	-.000628	-.000628	0	0
9	FACE3	PY	-.000628	-.000628	0	0
10	KICKER1	PY	-.000188	-.000188	0	0
11	KICKER2	PY	-.000188	-.000188	0	0
12	KICKER3	PY	-.000188	-.000188	0	0
13	RAIL1	PY	-9.4e-5	-9.4e-5	0	0
14	RAIL2	PY	-.000188	-.000188	0	0
15	RAIL3	PY	-.000188	-.000188	0	0
16	RCORNER1	PY	-.000628	-.000628	0	0
17	RCORNER2	PY	-.000628	-.000628	0	0
18	RCORNER3	PY	-.000628	-.000628	0	0
19	SO1	PY	-.000458	-.000458	0	0
20	SO2	PY	-.000458	-.000458	0	0
21	SO3	PY	-.000458	-.000458	0	0
22	MP ALPHA1	PY	-.000298	-.000298	0	0
23	MP ALPHA2	PY	-.000298	-.000298	0	0
24	MP ALPHA3	PY	-.000298	-.000298	0	0
25	MP ALPHA4	PY	-.000298	-.000298	0	0
26	MP ALPHA5	PY	-.000298	-.000298	0	0
27	MP ALPHA6	PY	-.000298	-.000298	0	0
28	MP BETA1	PY	-.000298	-.000298	0	0
29	MP BETA2	PY	-.000298	-.000298	0	0
30	MP BETA3	PY	-.000298	-.000298	0	0
31	MP BETA4	PY	-.000298	-.000298	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
32	MP BETA5	PY	-.000298	-.000298	0	0
33	MP GAMMA1	PY	-.000298	-.000298	0	0
34	MP GAMMA2	PY	-.000298	-.000298	0	0
35	MP GAMMA3	PY	-.000298	-.000298	0	0
36	MP GAMMA4	PY	-.000298	-.000298	0	0
37	MP GAMMA5	PY	-.000298	-.000298	0	0
38	ANGLE1	PX	-.000544	-.000544	0	0
39	ANGLE2	PX	-.000544	-.000544	0	0
40	ANGLE3	PX	-.000544	-.000544	0	0
41	CORNER1	PX	-.000544	-.000544	0	0
42	CORNER2	PX	-.000544	-.000544	0	0
43	CORNER3	PX	-.000544	-.000544	0	0
44	FACE1	PX	-.000544	-.000544	0	0
45	FACE2	PX	-.001	-.001	0	0
46	FACE3	PX	-.001	-.001	0	0
47	KICKER1	PX	-.000326	-.000326	0	0
48	KICKER2	PX	-.000326	-.000326	0	0
49	KICKER3	PX	-.000326	-.000326	0	0
50	RAIL1	PX	-.000163	-.000163	0	0
51	RAIL2	PX	-.000326	-.000326	0	0
52	RAIL3	PX	-.000326	-.000326	0	0
53	RCORNER1	PX	-.001	-.001	0	0
54	RCORNER2	PX	-.001	-.001	0	0
55	RCORNER3	PX	-.001	-.001	0	0
56	SO1	PX	-.000794	-.000794	0	0
57	SO2	PX	-.000794	-.000794	0	0
58	SO3	PX	-.000794	-.000794	0	0
59	MP ALPHA1	PX	-.000517	-.000517	0	0
60	MP ALPHA2	PX	-.000517	-.000517	0	0
61	MP ALPHA3	PX	-.000517	-.000517	0	0
62	MP ALPHA4	PX	-.000517	-.000517	0	0
63	MP ALPHA5	PX	-.000517	-.000517	0	0
64	MP ALPHA6	PX	-.000517	-.000517	0	0
65	MP BETA1	PX	-.000517	-.000517	0	0
66	MP BETA2	PX	-.000517	-.000517	0	0
67	MP BETA3	PX	-.000517	-.000517	0	0
68	MP BETA4	PX	-.000517	-.000517	0	0
69	MP BETA5	PX	-.000517	-.000517	0	0
70	MP GAMMA1	PX	-.000517	-.000517	0	0
71	MP GAMMA2	PX	-.000517	-.000517	0	0
72	MP GAMMA3	PX	-.000517	-.000517	0	0
73	MP GAMMA4	PX	-.000517	-.000517	0	0
74	MP GAMMA5	PX	-.000517	-.000517	0	0

Member Distributed Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PX	-.000628	-.000628	0	0
2	ANGLE2	PX	-.000628	-.000628	0	0
3	ANGLE3	PX	-.000628	-.000628	0	0
4	CORNER1	PX	-.000628	-.000628	0	0
5	CORNER2	PX	-.000628	-.000628	0	0
6	CORNER3	PX	-.000628	-.000628	0	0
7	FACE2	PX	-.000628	-.000628	0	0
8	FACE1	PX	-.001	-.001	0	0
9	FACE3	PX	-.001	-.001	0	0
10	KICKER1	PX	-.000376	-.000376	0	0

Member Distributed Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	KICKER2	PX	-.000376	-.000376	0	0
12	KICKER3	PX	-.000376	-.000376	0	0
13	RAIL2	PX	-.000188	-.000188	0	0
14	RAIL1	PX	-.000376	-.000376	0	0
15	RAIL3	PX	-.000376	-.000376	0	0
16	RCORNER1	PX	-.001	-.001	0	0
17	RCORNER2	PX	-.001	-.001	0	0
18	RCORNER3	PX	-.001	-.001	0	0
19	SO1	PX	-.000916	-.000916	0	0
20	SO2	PX	-.000916	-.000916	0	0
21	SO3	PX	-.000916	-.000916	0	0
22	MP ALPHA1	PX	-.000597	-.000597	0	0
23	MP ALPHA2	PX	-.000597	-.000597	0	0
24	MP ALPHA3	PX	-.000597	-.000597	0	0
25	MP ALPHA4	PX	-.000597	-.000597	0	0
26	MP ALPHA5	PX	-.000597	-.000597	0	0
27	MP ALPHA6	PX	-.000597	-.000597	0	0
28	MP BETA1	PX	-.000597	-.000597	0	0
29	MP BETA2	PX	-.000597	-.000597	0	0
30	MP BETA3	PX	-.000597	-.000597	0	0
31	MP BETA4	PX	-.000597	-.000597	0	0
32	MP BETA5	PX	-.000597	-.000597	0	0
33	MP GAMMA1	PX	-.000597	-.000597	0	0
34	MP GAMMA2	PX	-.000597	-.000597	0	0
35	MP GAMMA3	PX	-.000597	-.000597	0	0
36	MP GAMMA4	PX	-.000597	-.000597	0	0
37	MP GAMMA5	PX	-.000597	-.000597	0	0

Member Distributed Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.000314	.000314	0	0
2	ANGLE2	PY	.000314	.000314	0	0
3	ANGLE3	PY	.000314	.000314	0	0
4	CORNER1	PY	.000314	.000314	0	0
5	CORNER2	PY	.000314	.000314	0	0
6	CORNER3	PY	.000314	.000314	0	0
7	FACE2	PY	.000314	.000314	0	0
8	FACE1	PY	.000628	.000628	0	0
9	FACE3	PY	.000628	.000628	0	0
10	KICKER1	PY	.000188	.000188	0	0
11	KICKER2	PY	.000188	.000188	0	0
12	KICKER3	PY	.000188	.000188	0	0
13	RAIL2	PY	9.4e-5	9.4e-5	0	0
14	RAIL1	PY	.000188	.000188	0	0
15	RAIL3	PY	.000188	.000188	0	0
16	RCORNER1	PY	.000628	.000628	0	0
17	RCORNER2	PY	.000628	.000628	0	0
18	RCORNER3	PY	.000628	.000628	0	0
19	SO1	PY	.000458	.000458	0	0
20	SO2	PY	.000458	.000458	0	0
21	SO3	PY	.000458	.000458	0	0
22	MP ALPHA1	PY	.000298	.000298	0	0
23	MP ALPHA2	PY	.000298	.000298	0	0
24	MP ALPHA3	PY	.000298	.000298	0	0
25	MP ALPHA4	PY	.000298	.000298	0	0
26	MP ALPHA5	PY	.000298	.000298	0	0

Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	MP ALPHA6	PY	.000298	.000298	0	0
28	MP BETA1	PY	.000298	.000298	0	0
29	MP BETA2	PY	.000298	.000298	0	0
30	MP BETA3	PY	.000298	.000298	0	0
31	MP BETA4	PY	.000298	.000298	0	0
32	MP BETA5	PY	.000298	.000298	0	0
33	MP GAMMA1	PY	.000298	.000298	0	0
34	MP GAMMA2	PY	.000298	.000298	0	0
35	MP GAMMA3	PY	.000298	.000298	0	0
36	MP GAMMA4	PY	.000298	.000298	0	0
37	MP GAMMA5	PY	.000298	.000298	0	0
38	ANGLE1	PX	-.000544	-.000544	0	0
39	ANGLE2	PX	-.000544	-.000544	0	0
40	ANGLE3	PX	-.000544	-.000544	0	0
41	CORNER1	PX	-.000544	-.000544	0	0
42	CORNER2	PX	-.000544	-.000544	0	0
43	CORNER3	PX	-.000544	-.000544	0	0
44	FACE2	PX	-.000544	-.000544	0	0
45	FACE1	PX	-.001	-.001	0	0
46	FACE3	PX	-.001	-.001	0	0
47	KICKER1	PX	-.000326	-.000326	0	0
48	KICKER2	PX	-.000326	-.000326	0	0
49	KICKER3	PX	-.000326	-.000326	0	0
50	RAIL2	PX	-.000163	-.000163	0	0
51	RAIL1	PX	-.000326	-.000326	0	0
52	RAIL3	PX	-.000326	-.000326	0	0
53	RCORNER1	PX	-.001	-.001	0	0
54	RCORNER2	PX	-.001	-.001	0	0
55	RCORNER3	PX	-.001	-.001	0	0
56	SO1	PX	-.000794	-.000794	0	0
57	SO2	PX	-.000794	-.000794	0	0
58	SO3	PX	-.000794	-.000794	0	0
59	MP ALPHA1	PX	-.000517	-.000517	0	0
60	MP ALPHA2	PX	-.000517	-.000517	0	0
61	MP ALPHA3	PX	-.000517	-.000517	0	0
62	MP ALPHA4	PX	-.000517	-.000517	0	0
63	MP ALPHA5	PX	-.000517	-.000517	0	0
64	MP ALPHA6	PX	-.000517	-.000517	0	0
65	MP BETA1	PX	-.000517	-.000517	0	0
66	MP BETA2	PX	-.000517	-.000517	0	0
67	MP BETA3	PX	-.000517	-.000517	0	0
68	MP BETA4	PX	-.000517	-.000517	0	0
69	MP BETA5	PX	-.000517	-.000517	0	0
70	MP GAMMA1	PX	-.000517	-.000517	0	0
71	MP GAMMA2	PX	-.000517	-.000517	0	0
72	MP GAMMA3	PX	-.000517	-.000517	0	0
73	MP GAMMA4	PX	-.000517	-.000517	0	0
74	MP GAMMA5	PX	-.000517	-.000517	0	0

Member Distributed Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.000544	.000544	0	0
2	ANGLE2	PY	.000544	.000544	0	0
3	ANGLE3	PY	.000544	.000544	0	0
4	CORNER1	PY	.000544	.000544	0	0
5	CORNER2	PY	.000544	.000544	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	CORNER3	PY	.000544	.000544	0	0
7	FACE2	PY	.000544	.000544	0	0
8	FACE1	PY	.001	.001	0	0
9	FACE3	PY	.001	.001	0	0
10	KICKER1	PY	.000326	.000326	0	0
11	KICKER2	PY	.000326	.000326	0	0
12	KICKER3	PY	.000326	.000326	0	0
13	RAIL2	PY	.000163	.000163	0	0
14	RAIL1	PY	.000326	.000326	0	0
15	RAIL3	PY	.000326	.000326	0	0
16	RCORNER1	PY	.001	.001	0	0
17	RCORNER2	PY	.001	.001	0	0
18	RCORNER3	PY	.001	.001	0	0
19	SO1	PY	.000794	.000794	0	0
20	SO2	PY	.000794	.000794	0	0
21	SO3	PY	.000794	.000794	0	0
22	MP ALPHA1	PY	.000517	.000517	0	0
23	MP ALPHA2	PY	.000517	.000517	0	0
24	MP ALPHA3	PY	.000517	.000517	0	0
25	MP ALPHA4	PY	.000517	.000517	0	0
26	MP ALPHA5	PY	.000517	.000517	0	0
27	MP ALPHA6	PY	.000517	.000517	0	0
28	MP BETA1	PY	.000517	.000517	0	0
29	MP BETA2	PY	.000517	.000517	0	0
30	MP BETA3	PY	.000517	.000517	0	0
31	MP BETA4	PY	.000517	.000517	0	0
32	MP BETA5	PY	.000517	.000517	0	0
33	MP GAMMA1	PY	.000517	.000517	0	0
34	MP GAMMA2	PY	.000517	.000517	0	0
35	MP GAMMA3	PY	.000517	.000517	0	0
36	MP GAMMA4	PY	.000517	.000517	0	0
37	MP GAMMA5	PY	.000517	.000517	0	0
38	ANGLE1	PX	-.000314	-.000314	0	0
39	ANGLE2	PX	-.000314	-.000314	0	0
40	ANGLE3	PX	-.000314	-.000314	0	0
41	CORNER1	PX	-.000314	-.000314	0	0
42	CORNER2	PX	-.000314	-.000314	0	0
43	CORNER3	PX	-.000314	-.000314	0	0
44	FACE2	PX	-.000314	-.000314	0	0
45	FACE1	PX	-.000628	-.000628	0	0
46	FACE3	PX	-.000628	-.000628	0	0
47	KICKER1	PX	-.000188	-.000188	0	0
48	KICKER2	PX	-.000188	-.000188	0	0
49	KICKER3	PX	-.000188	-.000188	0	0
50	RAIL2	PX	-9.4e-5	-9.4e-5	0	0
51	RAIL1	PX	-.000188	-.000188	0	0
52	RAIL3	PX	-.000188	-.000188	0	0
53	RCORNER1	PX	-.000628	-.000628	0	0
54	RCORNER2	PX	-.000628	-.000628	0	0
55	RCORNER3	PX	-.000628	-.000628	0	0
56	SO1	PX	-.000458	-.000458	0	0
57	SO2	PX	-.000458	-.000458	0	0
58	SO3	PX	-.000458	-.000458	0	0
59	MP ALPHA1	PX	-.000298	-.000298	0	0
60	MP ALPHA2	PX	-.000298	-.000298	0	0
61	MP ALPHA3	PX	-.000298	-.000298	0	0
62	MP ALPHA4	PX	-.000298	-.000298	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
63	MP ALPHA5	PX	-.000298	-.000298	0	0
64	MP ALPHA6	PX	-.000298	-.000298	0	0
65	MP BETA1	PX	-.000298	-.000298	0	0
66	MP BETA2	PX	-.000298	-.000298	0	0
67	MP BETA3	PX	-.000298	-.000298	0	0
68	MP BETA4	PX	-.000298	-.000298	0	0
69	MP BETA5	PX	-.000298	-.000298	0	0
70	MP GAMMA1	PX	-.000298	-.000298	0	0
71	MP GAMMA2	PX	-.000298	-.000298	0	0
72	MP GAMMA3	PX	-.000298	-.000298	0	0
73	MP GAMMA4	PX	-.000298	-.000298	0	0
74	MP GAMMA5	PX	-.000298	-.000298	0	0

Member Distributed Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.000628	.000628	0	0
2	ANGLE2	PY	.000628	.000628	0	0
3	ANGLE3	PY	.000628	.000628	0	0
4	CORNER1	PY	.000628	.000628	0	0
5	CORNER2	PY	.000628	.000628	0	0
6	CORNER3	PY	.000628	.000628	0	0
7	FACE2	PY	.000628	.000628	0	0
8	FACE1	PY	.001	.001	0	0
9	FACE3	PY	.001	.001	0	0
10	KICKER1	PY	.000376	.000376	0	0
11	KICKER2	PY	.000376	.000376	0	0
12	KICKER3	PY	.000376	.000376	0	0
13	RAIL2	PY	.000188	.000188	0	0
14	RAIL1	PY	.000376	.000376	0	0
15	RAIL3	PY	.000376	.000376	0	0
16	RCORNER1	PY	.001	.001	0	0
17	RCORNER2	PY	.001	.001	0	0
18	RCORNER3	PY	.001	.001	0	0
19	SO1	PY	.000916	.000916	0	0
20	SO2	PY	.000916	.000916	0	0
21	SO3	PY	.000916	.000916	0	0
22	MP ALPHA1	PY	.000597	.000597	0	0
23	MP ALPHA2	PY	.000597	.000597	0	0
24	MP ALPHA3	PY	.000597	.000597	0	0
25	MP ALPHA4	PY	.000597	.000597	0	0
26	MP ALPHA5	PY	.000597	.000597	0	0
27	MP ALPHA6	PY	.000597	.000597	0	0
28	MP BETA1	PY	.000597	.000597	0	0
29	MP BETA2	PY	.000597	.000597	0	0
30	MP BETA3	PY	.000597	.000597	0	0
31	MP BETA4	PY	.000597	.000597	0	0
32	MP BETA5	PY	.000597	.000597	0	0
33	MP GAMMA1	PY	.000597	.000597	0	0
34	MP GAMMA2	PY	.000597	.000597	0	0
35	MP GAMMA3	PY	.000597	.000597	0	0
36	MP GAMMA4	PY	.000597	.000597	0	0
37	MP GAMMA5	PY	.000597	.000597	0	0

Member Distributed Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.000544	.000544	0	0

Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	ANGLE2	PY	.000544	.000544	0	0
3	ANGLE3	PY	.000544	.000544	0	0
4	CORNER1	PY	.000544	.000544	0	0
5	CORNER2	PY	.000544	.000544	0	0
6	CORNER3	PY	.000544	.000544	0	0
7	FACE3	PY	.000544	.000544	0	0
8	FACE1	PY	.001	.001	0	0
9	FACE2	PY	.001	.001	0	0
10	KICKER1	PY	.000326	.000326	0	0
11	KICKER2	PY	.000326	.000326	0	0
12	KICKER3	PY	.000326	.000326	0	0
13	RAIL3	PY	.000163	.000163	0	0
14	RAIL1	PY	.000326	.000326	0	0
15	RAIL2	PY	.000326	.000326	0	0
16	RCORNER1	PY	.001	.001	0	0
17	RCORNER2	PY	.001	.001	0	0
18	RCORNER3	PY	.001	.001	0	0
19	SO1	PY	.000794	.000794	0	0
20	SO2	PY	.000794	.000794	0	0
21	SO3	PY	.000794	.000794	0	0
22	MP ALPHA1	PY	.000517	.000517	0	0
23	MP ALPHA2	PY	.000517	.000517	0	0
24	MP ALPHA3	PY	.000517	.000517	0	0
25	MP ALPHA4	PY	.000517	.000517	0	0
26	MP ALPHA5	PY	.000517	.000517	0	0
27	MP ALPHA6	PY	.000517	.000517	0	0
28	MP BETA1	PY	.000517	.000517	0	0
29	MP BETA2	PY	.000517	.000517	0	0
30	MP BETA3	PY	.000517	.000517	0	0
31	MP BETA4	PY	.000517	.000517	0	0
32	MP BETA5	PY	.000517	.000517	0	0
33	MP GAMMA1	PY	.000517	.000517	0	0
34	MP GAMMA2	PY	.000517	.000517	0	0
35	MP GAMMA3	PY	.000517	.000517	0	0
36	MP GAMMA4	PY	.000517	.000517	0	0
37	MP GAMMA5	PY	.000517	.000517	0	0
38	ANGLE1	PX	.000314	.000314	0	0
39	ANGLE2	PX	.000314	.000314	0	0
40	ANGLE3	PX	.000314	.000314	0	0
41	CORNER1	PX	.000314	.000314	0	0
42	CORNER2	PX	.000314	.000314	0	0
43	CORNER3	PX	.000314	.000314	0	0
44	FACE3	PX	.000314	.000314	0	0
45	FACE1	PX	.000628	.000628	0	0
46	FACE2	PX	.000628	.000628	0	0
47	KICKER1	PX	.000188	.000188	0	0
48	KICKER2	PX	.000188	.000188	0	0
49	KICKER3	PX	.000188	.000188	0	0
50	RAIL3	PX	9.4e-5	9.4e-5	0	0
51	RAIL1	PX	.000188	.000188	0	0
52	RAIL2	PX	.000188	.000188	0	0
53	RCORNER1	PX	.000628	.000628	0	0
54	RCORNER2	PX	.000628	.000628	0	0
55	RCORNER3	PX	.000628	.000628	0	0
56	SO1	PX	.000458	.000458	0	0
57	SO2	PX	.000458	.000458	0	0
58	SO3	PX	.000458	.000458	0	0

Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP ALPHA1	PX	.000298	.000298	0	0
60	MP ALPHA2	PX	.000298	.000298	0	0
61	MP ALPHA3	PX	.000298	.000298	0	0
62	MP ALPHA4	PX	.000298	.000298	0	0
63	MP ALPHA5	PX	.000298	.000298	0	0
64	MP ALPHA6	PX	.000298	.000298	0	0
65	MP BETA1	PX	.000298	.000298	0	0
66	MP BETA2	PX	.000298	.000298	0	0
67	MP BETA3	PX	.000298	.000298	0	0
68	MP BETA4	PX	.000298	.000298	0	0
69	MP BETA5	PX	.000298	.000298	0	0
70	MP GAMMA1	PX	.000298	.000298	0	0
71	MP GAMMA2	PX	.000298	.000298	0	0
72	MP GAMMA3	PX	.000298	.000298	0	0
73	MP GAMMA4	PX	.000298	.000298	0	0
74	MP GAMMA5	PX	.000298	.000298	0	0

Member Distributed Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.000314	.000314	0	0
2	ANGLE2	PY	.000314	.000314	0	0
3	ANGLE3	PY	.000314	.000314	0	0
4	CORNER1	PY	.000314	.000314	0	0
5	CORNER2	PY	.000314	.000314	0	0
6	CORNER3	PY	.000314	.000314	0	0
7	FACE3	PY	.000314	.000314	0	0
8	FACE1	PY	.000628	.000628	0	0
9	FACE2	PY	.000628	.000628	0	0
10	KICKER1	PY	.000188	.000188	0	0
11	KICKER2	PY	.000188	.000188	0	0
12	KICKER3	PY	.000188	.000188	0	0
13	RAIL3	PY	9.4e-5	9.4e-5	0	0
14	RAIL1	PY	.000188	.000188	0	0
15	RAIL2	PY	.000188	.000188	0	0
16	RCORNER1	PY	.000628	.000628	0	0
17	RCORNER2	PY	.000628	.000628	0	0
18	RCORNER3	PY	.000628	.000628	0	0
19	SO1	PY	.000458	.000458	0	0
20	SO2	PY	.000458	.000458	0	0
21	SO3	PY	.000458	.000458	0	0
22	MP ALPHA1	PY	.000298	.000298	0	0
23	MP ALPHA2	PY	.000298	.000298	0	0
24	MP ALPHA3	PY	.000298	.000298	0	0
25	MP ALPHA4	PY	.000298	.000298	0	0
26	MP ALPHA5	PY	.000298	.000298	0	0
27	MP ALPHA6	PY	.000298	.000298	0	0
28	MP BETA1	PY	.000298	.000298	0	0
29	MP BETA2	PY	.000298	.000298	0	0
30	MP BETA3	PY	.000298	.000298	0	0
31	MP BETA4	PY	.000298	.000298	0	0
32	MP BETA5	PY	.000298	.000298	0	0
33	MP GAMMA1	PY	.000298	.000298	0	0
34	MP GAMMA2	PY	.000298	.000298	0	0
35	MP GAMMA3	PY	.000298	.000298	0	0
36	MP GAMMA4	PY	.000298	.000298	0	0
37	MP GAMMA5	PY	.000298	.000298	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	ANGLE1	PX	.000544	.000544	0	0
39	ANGLE2	PX	.000544	.000544	0	0
40	ANGLE3	PX	.000544	.000544	0	0
41	CORNER1	PX	.000544	.000544	0	0
42	CORNER2	PX	.000544	.000544	0	0
43	CORNER3	PX	.000544	.000544	0	0
44	FACE3	PX	.000544	.000544	0	0
45	FACE1	PX	.001	.001	0	0
46	FACE2	PX	.001	.001	0	0
47	KICKER1	PX	.000326	.000326	0	0
48	KICKER2	PX	.000326	.000326	0	0
49	KICKER3	PX	.000326	.000326	0	0
50	RAIL3	PX	.000163	.000163	0	0
51	RAIL1	PX	.000326	.000326	0	0
52	RAIL2	PX	.000326	.000326	0	0
53	RCORNER1	PX	.001	.001	0	0
54	RCORNER2	PX	.001	.001	0	0
55	RCORNER3	PX	.001	.001	0	0
56	SO1	PX	.000794	.000794	0	0
57	SO2	PX	.000794	.000794	0	0
58	SO3	PX	.000794	.000794	0	0
59	MP ALPHA1	PX	.000517	.000517	0	0
60	MP ALPHA2	PX	.000517	.000517	0	0
61	MP ALPHA3	PX	.000517	.000517	0	0
62	MP ALPHA4	PX	.000517	.000517	0	0
63	MP ALPHA5	PX	.000517	.000517	0	0
64	MP ALPHA6	PX	.000517	.000517	0	0
65	MP BETA1	PX	.000517	.000517	0	0
66	MP BETA2	PX	.000517	.000517	0	0
67	MP BETA3	PX	.000517	.000517	0	0
68	MP BETA4	PX	.000517	.000517	0	0
69	MP BETA5	PX	.000517	.000517	0	0
70	MP GAMMA1	PX	.000517	.000517	0	0
71	MP GAMMA2	PX	.000517	.000517	0	0
72	MP GAMMA3	PX	.000517	.000517	0	0
73	MP GAMMA4	PX	.000517	.000517	0	0
74	MP GAMMA5	PX	.000517	.000517	0	0

Member Distributed Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PX	.000628	.000628	0	0
2	ANGLE2	PX	.000628	.000628	0	0
3	ANGLE3	PX	.000628	.000628	0	0
4	CORNER1	PX	.000628	.000628	0	0
5	CORNER2	PX	.000628	.000628	0	0
6	CORNER3	PX	.000628	.000628	0	0
7	FACE3	PX	.000628	.000628	0	0
8	FACE1	PX	.001	.001	0	0
9	FACE2	PX	.001	.001	0	0
10	KICKER1	PX	.000376	.000376	0	0
11	KICKER2	PX	.000376	.000376	0	0
12	KICKER3	PX	.000376	.000376	0	0
13	RAIL3	PX	.000188	.000188	0	0
14	RAIL1	PX	.000376	.000376	0	0
15	RAIL2	PX	.000376	.000376	0	0
16	RCORNER1	PX	.001	.001	0	0

Member Distributed Loads (BLC 24 : Maintanence (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	RCORNER2	PX	.001	.001	0	0
18	RCORNER3	PX	.001	.001	0	0
19	SO1	PX	.000916	.000916	0	0
20	SO2	PX	.000916	.000916	0	0
21	SO3	PX	.000916	.000916	0	0
22	MP ALPHA1	PX	.000597	.000597	0	0
23	MP ALPHA2	PX	.000597	.000597	0	0
24	MP ALPHA3	PX	.000597	.000597	0	0
25	MP ALPHA4	PX	.000597	.000597	0	0
26	MP ALPHA5	PX	.000597	.000597	0	0
27	MP ALPHA6	PX	.000597	.000597	0	0
28	MP BETA1	PX	.000597	.000597	0	0
29	MP BETA2	PX	.000597	.000597	0	0
30	MP BETA3	PX	.000597	.000597	0	0
31	MP BETA4	PX	.000597	.000597	0	0
32	MP BETA5	PX	.000597	.000597	0	0
33	MP GAMMA1	PX	.000597	.000597	0	0
34	MP GAMMA2	PX	.000597	.000597	0	0
35	MP GAMMA3	PX	.000597	.000597	0	0
36	MP GAMMA4	PX	.000597	.000597	0	0
37	MP GAMMA5	PX	.000597	.000597	0	0

Member Distributed Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.000314	-.000314	0	0
2	ANGLE2	PY	-.000314	-.000314	0	0
3	ANGLE3	PY	-.000314	-.000314	0	0
4	CORNER1	PY	-.000314	-.000314	0	0
5	CORNER2	PY	-.000314	-.000314	0	0
6	CORNER3	PY	-.000314	-.000314	0	0
7	FACE3	PY	-.000314	-.000314	0	0
8	FACE1	PY	-.000628	-.000628	0	0
9	FACE2	PY	-.000628	-.000628	0	0
10	KICKER1	PY	-.000188	-.000188	0	0
11	KICKER2	PY	-.000188	-.000188	0	0
12	KICKER3	PY	-.000188	-.000188	0	0
13	RAIL3	PY	-9.4e-5	-9.4e-5	0	0
14	RAIL1	PY	-.000188	-.000188	0	0
15	RAIL2	PY	-.000188	-.000188	0	0
16	RCORNER1	PY	-.000628	-.000628	0	0
17	RCORNER2	PY	-.000628	-.000628	0	0
18	RCORNER3	PY	-.000628	-.000628	0	0
19	SO1	PY	-.000458	-.000458	0	0
20	SO2	PY	-.000458	-.000458	0	0
21	SO3	PY	-.000458	-.000458	0	0
22	MP ALPHA1	PY	-.000298	-.000298	0	0
23	MP ALPHA2	PY	-.000298	-.000298	0	0
24	MP ALPHA3	PY	-.000298	-.000298	0	0
25	MP ALPHA4	PY	-.000298	-.000298	0	0
26	MP ALPHA5	PY	-.000298	-.000298	0	0
27	MP ALPHA6	PY	-.000298	-.000298	0	0
28	MP BETA1	PY	-.000298	-.000298	0	0
29	MP BETA2	PY	-.000298	-.000298	0	0
30	MP BETA3	PY	-.000298	-.000298	0	0
31	MP BETA4	PY	-.000298	-.000298	0	0
32	MP BETA5	PY	-.000298	-.000298	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP GAMMA1	PY	-.000298	-.000298	0	0
34	MP GAMMA2	PY	-.000298	-.000298	0	0
35	MP GAMMA3	PY	-.000298	-.000298	0	0
36	MP GAMMA4	PY	-.000298	-.000298	0	0
37	MP GAMMA5	PY	-.000298	-.000298	0	0
38	ANGLE1	PX	.000544	.000544	0	0
39	ANGLE2	PX	.000544	.000544	0	0
40	ANGLE3	PX	.000544	.000544	0	0
41	CORNER1	PX	.000544	.000544	0	0
42	CORNER2	PX	.000544	.000544	0	0
43	CORNER3	PX	.000544	.000544	0	0
44	FACE3	PX	.000544	.000544	0	0
45	FACE1	PX	.001	.001	0	0
46	FACE2	PX	.001	.001	0	0
47	KICKER1	PX	.000326	.000326	0	0
48	KICKER2	PX	.000326	.000326	0	0
49	KICKER3	PX	.000326	.000326	0	0
50	RAIL3	PX	.000163	.000163	0	0
51	RAIL1	PX	.000326	.000326	0	0
52	RAIL2	PX	.000326	.000326	0	0
53	RCORNER1	PX	.001	.001	0	0
54	RCORNER2	PX	.001	.001	0	0
55	RCORNER3	PX	.001	.001	0	0
56	SO1	PX	.000794	.000794	0	0
57	SO2	PX	.000794	.000794	0	0
58	SO3	PX	.000794	.000794	0	0
59	MP ALPHA1	PX	.000517	.000517	0	0
60	MP ALPHA2	PX	.000517	.000517	0	0
61	MP ALPHA3	PX	.000517	.000517	0	0
62	MP ALPHA4	PX	.000517	.000517	0	0
63	MP ALPHA5	PX	.000517	.000517	0	0
64	MP ALPHA6	PX	.000517	.000517	0	0
65	MP BETA1	PX	.000517	.000517	0	0
66	MP BETA2	PX	.000517	.000517	0	0
67	MP BETA3	PX	.000517	.000517	0	0
68	MP BETA4	PX	.000517	.000517	0	0
69	MP BETA5	PX	.000517	.000517	0	0
70	MP GAMMA1	PX	.000517	.000517	0	0
71	MP GAMMA2	PX	.000517	.000517	0	0
72	MP GAMMA3	PX	.000517	.000517	0	0
73	MP GAMMA4	PX	.000517	.000517	0	0
74	MP GAMMA5	PX	.000517	.000517	0	0

Member Distributed Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.000544	-.000544	0	0
2	ANGLE2	PY	-.000544	-.000544	0	0
3	ANGLE3	PY	-.000544	-.000544	0	0
4	CORNER1	PY	-.000544	-.000544	0	0
5	CORNER2	PY	-.000544	-.000544	0	0
6	CORNER3	PY	-.000544	-.000544	0	0
7	FACE1	PY	-.000544	-.000544	0	0
8	FACE2	PY	-.001	-.001	0	0
9	FACE3	PY	-.001	-.001	0	0
10	KICKER1	PY	-.000326	-.000326	0	0
11	KICKER2	PY	-.000326	-.000326	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	KICKER3	PY	-.000326	-.000326	0	0
13	RAIL1	PY	-.000163	-.000163	0	0
14	RAIL2	PY	-.000326	-.000326	0	0
15	RAIL3	PY	-.000326	-.000326	0	0
16	RCORNER1	PY	-.001	-.001	0	0
17	RCORNER2	PY	-.001	-.001	0	0
18	RCORNER3	PY	-.001	-.001	0	0
19	SO1	PY	-.000794	-.000794	0	0
20	SO2	PY	-.000794	-.000794	0	0
21	SO3	PY	-.000794	-.000794	0	0
22	MP ALPHA1	PY	-.000517	-.000517	0	0
23	MP ALPHA2	PY	-.000517	-.000517	0	0
24	MP ALPHA3	PY	-.000517	-.000517	0	0
25	MP ALPHA4	PY	-.000517	-.000517	0	0
26	MP ALPHA5	PY	-.000517	-.000517	0	0
27	MP ALPHA6	PY	-.000517	-.000517	0	0
28	MP BETA1	PY	-.000517	-.000517	0	0
29	MP BETA2	PY	-.000517	-.000517	0	0
30	MP BETA3	PY	-.000517	-.000517	0	0
31	MP BETA4	PY	-.000517	-.000517	0	0
32	MP BETA5	PY	-.000517	-.000517	0	0
33	MP GAMMA1	PY	-.000517	-.000517	0	0
34	MP GAMMA2	PY	-.000517	-.000517	0	0
35	MP GAMMA3	PY	-.000517	-.000517	0	0
36	MP GAMMA4	PY	-.000517	-.000517	0	0
37	MP GAMMA5	PY	-.000517	-.000517	0	0
38	ANGLE1	PX	.000314	.000314	0	0
39	ANGLE2	PX	.000314	.000314	0	0
40	ANGLE3	PX	.000314	.000314	0	0
41	CORNER1	PX	.000314	.000314	0	0
42	CORNER2	PX	.000314	.000314	0	0
43	CORNER3	PX	.000314	.000314	0	0
44	FACE1	PX	.000314	.000314	0	0
45	FACE2	PX	.000628	.000628	0	0
46	FACE3	PX	.000628	.000628	0	0
47	KICKER1	PX	.000188	.000188	0	0
48	KICKER2	PX	.000188	.000188	0	0
49	KICKER3	PX	.000188	.000188	0	0
50	RAIL1	PX	9.4e-5	9.4e-5	0	0
51	RAIL2	PX	.000188	.000188	0	0
52	RAIL3	PX	.000188	.000188	0	0
53	RCORNER1	PX	.000628	.000628	0	0
54	RCORNER2	PX	.000628	.000628	0	0
55	RCORNER3	PX	.000628	.000628	0	0
56	SO1	PX	.000458	.000458	0	0
57	SO2	PX	.000458	.000458	0	0
58	SO3	PX	.000458	.000458	0	0
59	MP ALPHA1	PX	.000298	.000298	0	0
60	MP ALPHA2	PX	.000298	.000298	0	0
61	MP ALPHA3	PX	.000298	.000298	0	0
62	MP ALPHA4	PX	.000298	.000298	0	0
63	MP ALPHA5	PX	.000298	.000298	0	0
64	MP ALPHA6	PX	.000298	.000298	0	0
65	MP BETA1	PX	.000298	.000298	0	0
66	MP BETA2	PX	.000298	.000298	0	0
67	MP BETA3	PX	.000298	.000298	0	0
68	MP BETA4	PX	.000298	.000298	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	MP BETA5	PX	.000298	.000298	0	0
70	MP GAMMA1	PX	.000298	.000298	0	0
71	MP GAMMA2	PX	.000298	.000298	0	0
72	MP GAMMA3	PX	.000298	.000298	0	0
73	MP GAMMA4	PX	.000298	.000298	0	0
74	MP GAMMA5	PX	.000298	.000298	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	Z	-.007	-.007	0	0
2	ANGLE2	Z	-.007	-.007	0	0
3	ANGLE3	Z	-.007	-.007	0	0
4	CORNER1	Z	-.011	-.011	0	0
5	CORNER2	Z	-.011	-.011	0	0
6	CORNER3	Z	-.011	-.011	0	0
7	FACE1	Z	-.007	-.007	0	0
8	FACE2	Z	-.007	-.007	0	0
9	FACE3	Z	-.007	-.007	0	0
10	KICKER1	Z	-.005	-.005	0	0
11	KICKER2	Z	-.005	-.005	0	0
12	KICKER3	Z	-.005	-.005	0	0
13	RAIL1	Z	-.005	-.005	0	0
14	RAIL2	Z	-.005	-.005	0	0
15	RAIL3	Z	-.005	-.005	0	0
16	RCORNER1	Z	-.008	-.008	0	0
17	RCORNER2	Z	-.008	-.008	0	0
18	RCORNER3	Z	-.008	-.008	0	0
19	SO1	Z	-.008	-.008	0	0
20	SO2	Z	-.008	-.008	0	0
21	SO3	Z	-.008	-.008	0	0
22	MP ALPHA1	Z	-.005	-.005	0	0
23	MP ALPHA2	Z	-.005	-.005	0	0
24	MP ALPHA3	Z	-.005	-.005	0	0
25	MP ALPHA4	Z	-.005	-.005	0	0
26	MP ALPHA5	Z	-.005	-.005	0	0
27	MP ALPHA6	Z	-.005	-.005	0	0
28	MP BETA1	Z	-.005	-.005	0	0
29	MP BETA2	Z	-.005	-.005	0	0
30	MP BETA3	Z	-.005	-.005	0	0
31	MP BETA4	Z	-.005	-.005	0	0
32	MP BETA5	Z	-.005	-.005	0	0
33	MP GAMMA1	Z	-.005	-.005	0	0
34	MP GAMMA2	Z	-.005	-.005	0	0
35	MP GAMMA3	Z	-.005	-.005	0	0
36	MP GAMMA4	Z	-.005	-.005	0	0
37	MP GAMMA5	Z	-.005	-.005	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.002	-.002	0	0
2	ANGLE2	PY	-.002	-.002	0	0
3	ANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.002	-.002	0	0
5	CORNER2	PY	-.002	-.002	0	0
6	CORNER3	PY	-.002	-.002	0	0
7	FACE1	PY	-.002	-.002	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	FACE2	PY	-.005	-.005	0	0
9	FACE3	PY	-.005	-.005	0	0
10	KICKER1	PY	-.003	-.003	0	0
11	KICKER2	PY	-.003	-.003	0	0
12	KICKER3	PY	-.003	-.003	0	0
13	RAIL1	PY	-.001	-.001	0	0
14	RAIL2	PY	-.003	-.003	0	0
15	RAIL3	PY	-.003	-.003	0	0
16	RCORNER1	PY	-.004	-.004	0	0
17	RCORNER2	PY	-.004	-.004	0	0
18	RCORNER3	PY	-.004	-.004	0	0
19	SO1	PY	-.003	-.003	0	0
20	SO2	PY	-.003	-.003	0	0
21	SO3	PY	-.003	-.003	0	0
22	MP ALPHA1	PY	-.003	-.003	0	0
23	MP ALPHA2	PY	-.003	-.003	0	0
24	MP ALPHA3	PY	-.003	-.003	0	0
25	MP ALPHA4	PY	-.003	-.003	0	0
26	MP ALPHA5	PY	-.003	-.003	0	0
27	MP ALPHA6	PY	-.003	-.003	0	0
28	MP BETA1	PY	-.003	-.003	0	0
29	MP BETA2	PY	-.003	-.003	0	0
30	MP BETA3	PY	-.003	-.003	0	0
31	MP BETA4	PY	-.003	-.003	0	0
32	MP BETA5	PY	-.003	-.003	0	0
33	MP GAMMA1	PY	-.003	-.003	0	0
34	MP GAMMA2	PY	-.003	-.003	0	0
35	MP GAMMA3	PY	-.003	-.003	0	0
36	MP GAMMA4	PY	-.003	-.003	0	0
37	MP GAMMA5	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.002	-.002	0	0
2	ANGLE2	PY	-.002	-.002	0	0
3	ANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.002	-.002	0	0
5	CORNER2	PY	-.002	-.002	0	0
6	CORNER3	PY	-.002	-.002	0	0
7	FACE1	PY	-.002	-.002	0	0
8	FACE2	PY	-.004	-.004	0	0
9	FACE3	PY	-.004	-.004	0	0
10	KICKER1	PY	-.002	-.002	0	0
11	KICKER2	PY	-.002	-.002	0	0
12	KICKER3	PY	-.002	-.002	0	0
13	RAIL1	PY	-.001	-.001	0	0
14	RAIL2	PY	-.002	-.002	0	0
15	RAIL3	PY	-.002	-.002	0	0
16	RCORNER1	PY	-.003	-.003	0	0
17	RCORNER2	PY	-.003	-.003	0	0
18	RCORNER3	PY	-.003	-.003	0	0
19	SO1	PY	-.003	-.003	0	0
20	SO2	PY	-.003	-.003	0	0
21	SO3	PY	-.003	-.003	0	0
22	MP ALPHA1	PY	-.003	-.003	0	0
23	MP ALPHA2	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	MP ALPHA3	PY	-.003	-.003	0	0
25	MP ALPHA4	PY	-.003	-.003	0	0
26	MP ALPHA5	PY	-.003	-.003	0	0
27	MP ALPHA6	PY	-.003	-.003	0	0
28	MP BETA1	PY	-.003	-.003	0	0
29	MP BETA2	PY	-.003	-.003	0	0
30	MP BETA3	PY	-.003	-.003	0	0
31	MP BETA4	PY	-.003	-.003	0	0
32	MP BETA5	PY	-.003	-.003	0	0
33	MP GAMMA1	PY	-.003	-.003	0	0
34	MP GAMMA2	PY	-.003	-.003	0	0
35	MP GAMMA3	PY	-.003	-.003	0	0
36	MP GAMMA4	PY	-.003	-.003	0	0
37	MP GAMMA5	PY	-.003	-.003	0	0
38	ANGLE1	PX	-.001	-.001	0	0
39	ANGLE2	PX	-.001	-.001	0	0
40	ANGLE3	PX	-.001	-.001	0	0
41	CORNER1	PX	-.001	-.001	0	0
42	CORNER2	PX	-.001	-.001	0	0
43	CORNER3	PX	-.001	-.001	0	0
44	FACE1	PX	-.001	-.001	0	0
45	FACE2	PX	-.002	-.002	0	0
46	FACE3	PX	-.002	-.002	0	0
47	KICKER1	PX	-.001	-.001	0	0
48	KICKER2	PX	-.001	-.001	0	0
49	KICKER3	PX	-.001	-.001	0	0
50	RAIL1	PX	-.000631	-.000631	0	0
51	RAIL2	PX	-.001	-.001	0	0
52	RAIL3	PX	-.001	-.001	0	0
53	RCORNER1	PX	-.002	-.002	0	0
54	RCORNER2	PX	-.002	-.002	0	0
55	RCORNER3	PX	-.002	-.002	0	0
56	SO1	PX	-.002	-.002	0	0
57	SO2	PX	-.002	-.002	0	0
58	SO3	PX	-.002	-.002	0	0
59	MP ALPHA1	PX	-.002	-.002	0	0
60	MP ALPHA2	PX	-.002	-.002	0	0
61	MP ALPHA3	PX	-.002	-.002	0	0
62	MP ALPHA4	PX	-.002	-.002	0	0
63	MP ALPHA5	PX	-.002	-.002	0	0
64	MP ALPHA6	PX	-.002	-.002	0	0
65	MP BETA1	PX	-.002	-.002	0	0
66	MP BETA2	PX	-.002	-.002	0	0
67	MP BETA3	PX	-.002	-.002	0	0
68	MP BETA4	PX	-.002	-.002	0	0
69	MP BETA5	PX	-.002	-.002	0	0
70	MP GAMMA1	PX	-.002	-.002	0	0
71	MP GAMMA2	PX	-.002	-.002	0	0
72	MP GAMMA3	PX	-.002	-.002	0	0
73	MP GAMMA4	PX	-.002	-.002	0	0
74	MP GAMMA5	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.001	-.001	0	0
2	ANGLE2	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
3	ANGLE3	PY	-.001	-.001	0	0
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0
7	FACE1	PY	-.001	-.001	0	0
8	FACE2	PY	-.002	-.002	0	0
9	FACE3	PY	-.002	-.002	0	0
10	KICKER1	PY	-.001	-.001	0	0
11	KICKER2	PY	-.001	-.001	0	0
12	KICKER3	PY	-.001	-.001	0	0
13	RAIL1	PY	-.000631	-.000631	0	0
14	RAIL2	PY	-.001	-.001	0	0
15	RAIL3	PY	-.001	-.001	0	0
16	RCORNER1	PY	-.002	-.002	0	0
17	RCORNER2	PY	-.002	-.002	0	0
18	RCORNER3	PY	-.002	-.002	0	0
19	SO1	PY	-.002	-.002	0	0
20	SO2	PY	-.002	-.002	0	0
21	SO3	PY	-.002	-.002	0	0
22	MP ALPHA1	PY	-.002	-.002	0	0
23	MP ALPHA2	PY	-.002	-.002	0	0
24	MP ALPHA3	PY	-.002	-.002	0	0
25	MP ALPHA4	PY	-.002	-.002	0	0
26	MP ALPHA5	PY	-.002	-.002	0	0
27	MP ALPHA6	PY	-.002	-.002	0	0
28	MP BETA1	PY	-.002	-.002	0	0
29	MP BETA2	PY	-.002	-.002	0	0
30	MP BETA3	PY	-.002	-.002	0	0
31	MP BETA4	PY	-.002	-.002	0	0
32	MP BETA5	PY	-.002	-.002	0	0
33	MP GAMMA1	PY	-.002	-.002	0	0
34	MP GAMMA2	PY	-.002	-.002	0	0
35	MP GAMMA3	PY	-.002	-.002	0	0
36	MP GAMMA4	PY	-.002	-.002	0	0
37	MP GAMMA5	PY	-.002	-.002	0	0
38	ANGLE1	PX	-.002	-.002	0	0
39	ANGLE2	PX	-.002	-.002	0	0
40	ANGLE3	PX	-.002	-.002	0	0
41	CORNER1	PX	-.002	-.002	0	0
42	CORNER2	PX	-.002	-.002	0	0
43	CORNER3	PX	-.002	-.002	0	0
44	FACE1	PX	-.002	-.002	0	0
45	FACE2	PX	-.004	-.004	0	0
46	FACE3	PX	-.004	-.004	0	0
47	KICKER1	PX	-.002	-.002	0	0
48	KICKER2	PX	-.002	-.002	0	0
49	KICKER3	PX	-.002	-.002	0	0
50	RAIL1	PX	-.001	-.001	0	0
51	RAIL2	PX	-.002	-.002	0	0
52	RAIL3	PX	-.002	-.002	0	0
53	RCORNER1	PX	-.003	-.003	0	0
54	RCORNER2	PX	-.003	-.003	0	0
55	RCORNER3	PX	-.003	-.003	0	0
56	SO1	PX	-.003	-.003	0	0
57	SO2	PX	-.003	-.003	0	0
58	SO3	PX	-.003	-.003	0	0
59	MP ALPHA1	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
60	MP ALPHA2	PX	-.003	-.003	0	0
61	MP ALPHA3	PX	-.003	-.003	0	0
62	MP ALPHA4	PX	-.003	-.003	0	0
63	MP ALPHA5	PX	-.003	-.003	0	0
64	MP ALPHA6	PX	-.003	-.003	0	0
65	MP BETA1	PX	-.003	-.003	0	0
66	MP BETA2	PX	-.003	-.003	0	0
67	MP BETA3	PX	-.003	-.003	0	0
68	MP BETA4	PX	-.003	-.003	0	0
69	MP BETA5	PX	-.003	-.003	0	0
70	MP GAMMA1	PX	-.003	-.003	0	0
71	MP GAMMA2	PX	-.003	-.003	0	0
72	MP GAMMA3	PX	-.003	-.003	0	0
73	MP GAMMA4	PX	-.003	-.003	0	0
74	MP GAMMA5	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PX	-.002	-.002	0	0
2	ANGLE2	PX	-.002	-.002	0	0
3	ANGLE3	PX	-.002	-.002	0	0
4	CORNER1	PX	-.002	-.002	0	0
5	CORNER2	PX	-.002	-.002	0	0
6	CORNER3	PX	-.002	-.002	0	0
7	FACE2	PX	-.002	-.002	0	0
8	FACE1	PX	-.005	-.005	0	0
9	FACE3	PX	-.005	-.005	0	0
10	KICKER1	PX	-.003	-.003	0	0
11	KICKER2	PX	-.003	-.003	0	0
12	KICKER3	PX	-.003	-.003	0	0
13	RAIL2	PX	-.001	-.001	0	0
14	RAIL1	PX	-.003	-.003	0	0
15	RAIL3	PX	-.003	-.003	0	0
16	RCORNER1	PX	-.004	-.004	0	0
17	RCORNER2	PX	-.004	-.004	0	0
18	RCORNER3	PX	-.004	-.004	0	0
19	SO1	PX	-.003	-.003	0	0
20	SO2	PX	-.003	-.003	0	0
21	SO3	PX	-.003	-.003	0	0
22	MP ALPHA1	PX	-.003	-.003	0	0
23	MP ALPHA2	PX	-.003	-.003	0	0
24	MP ALPHA3	PX	-.003	-.003	0	0
25	MP ALPHA4	PX	-.003	-.003	0	0
26	MP ALPHA5	PX	-.003	-.003	0	0
27	MP ALPHA6	PX	-.003	-.003	0	0
28	MP BETA1	PX	-.003	-.003	0	0
29	MP BETA2	PX	-.003	-.003	0	0
30	MP BETA3	PX	-.003	-.003	0	0
31	MP BETA4	PX	-.003	-.003	0	0
32	MP BETA5	PX	-.003	-.003	0	0
33	MP GAMMA1	PX	-.003	-.003	0	0
34	MP GAMMA2	PX	-.003	-.003	0	0
35	MP GAMMA3	PX	-.003	-.003	0	0
36	MP GAMMA4	PX	-.003	-.003	0	0
37	MP GAMMA5	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.001	.001	0	0
2	ANGLE2	PY	.001	.001	0	0
3	ANGLE3	PY	.001	.001	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0
6	CORNER3	PY	.001	.001	0	0
7	FACE2	PY	.001	.001	0	0
8	FACE1	PY	.002	.002	0	0
9	FACE3	PY	.002	.002	0	0
10	KICKER1	PY	.001	.001	0	0
11	KICKER2	PY	.001	.001	0	0
12	KICKER3	PY	.001	.001	0	0
13	RAIL2	PY	.000631	.000631	0	0
14	RAIL1	PY	.001	.001	0	0
15	RAIL3	PY	.001	.001	0	0
16	RCORNER1	PY	.002	.002	0	0
17	RCORNER2	PY	.002	.002	0	0
18	RCORNER3	PY	.002	.002	0	0
19	SO1	PY	.002	.002	0	0
20	SO2	PY	.002	.002	0	0
21	SO3	PY	.002	.002	0	0
22	MP ALPHA1	PY	.002	.002	0	0
23	MP ALPHA2	PY	.002	.002	0	0
24	MP ALPHA3	PY	.002	.002	0	0
25	MP ALPHA4	PY	.002	.002	0	0
26	MP ALPHA5	PY	.002	.002	0	0
27	MP ALPHA6	PY	.002	.002	0	0
28	MP BETA1	PY	.002	.002	0	0
29	MP BETA2	PY	.002	.002	0	0
30	MP BETA3	PY	.002	.002	0	0
31	MP BETA4	PY	.002	.002	0	0
32	MP BETA5	PY	.002	.002	0	0
33	MP GAMMA1	PY	.002	.002	0	0
34	MP GAMMA2	PY	.002	.002	0	0
35	MP GAMMA3	PY	.002	.002	0	0
36	MP GAMMA4	PY	.002	.002	0	0
37	MP GAMMA5	PY	.002	.002	0	0
38	ANGLE1	PX	-.002	-.002	0	0
39	ANGLE2	PX	-.002	-.002	0	0
40	ANGLE3	PX	-.002	-.002	0	0
41	CORNER1	PX	-.002	-.002	0	0
42	CORNER2	PX	-.002	-.002	0	0
43	CORNER3	PX	-.002	-.002	0	0
44	FACE2	PX	-.002	-.002	0	0
45	FACE1	PX	-.004	-.004	0	0
46	FACE3	PX	-.004	-.004	0	0
47	KICKER1	PX	-.002	-.002	0	0
48	KICKER2	PX	-.002	-.002	0	0
49	KICKER3	PX	-.002	-.002	0	0
50	RAIL2	PX	-.001	-.001	0	0
51	RAIL1	PX	-.002	-.002	0	0
52	RAIL3	PX	-.002	-.002	0	0
53	RCORNER1	PX	-.003	-.003	0	0
54	RCORNER2	PX	-.003	-.003	0	0
55	RCORNER3	PX	-.003	-.003	0	0
56	SO1	PX	-.003	-.003	0	0
57	SO2	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	SO3	PX	-.003	-.003	0	0
59	MP ALPHA1	PX	-.003	-.003	0	0
60	MP ALPHA2	PX	-.003	-.003	0	0
61	MP ALPHA3	PX	-.003	-.003	0	0
62	MP ALPHA4	PX	-.003	-.003	0	0
63	MP ALPHA5	PX	-.003	-.003	0	0
64	MP ALPHA6	PX	-.003	-.003	0	0
65	MP BETA1	PX	-.003	-.003	0	0
66	MP BETA2	PX	-.003	-.003	0	0
67	MP BETA3	PX	-.003	-.003	0	0
68	MP BETA4	PX	-.003	-.003	0	0
69	MP BETA5	PX	-.003	-.003	0	0
70	MP GAMMA1	PX	-.003	-.003	0	0
71	MP GAMMA2	PX	-.003	-.003	0	0
72	MP GAMMA3	PX	-.003	-.003	0	0
73	MP GAMMA4	PX	-.003	-.003	0	0
74	MP GAMMA5	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.002	.002	0	0
2	ANGLE2	PY	.002	.002	0	0
3	ANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.002	.002	0	0
5	CORNER2	PY	.002	.002	0	0
6	CORNER3	PY	.002	.002	0	0
7	FACE2	PY	.002	.002	0	0
8	FACE1	PY	.004	.004	0	0
9	FACE3	PY	.004	.004	0	0
10	KICKER1	PY	.002	.002	0	0
11	KICKER2	PY	.002	.002	0	0
12	KICKER3	PY	.002	.002	0	0
13	RAIL2	PY	.001	.001	0	0
14	RAIL1	PY	.002	.002	0	0
15	RAIL3	PY	.002	.002	0	0
16	RCORNER1	PY	.003	.003	0	0
17	RCORNER2	PY	.003	.003	0	0
18	RCORNER3	PY	.003	.003	0	0
19	SO1	PY	.003	.003	0	0
20	SO2	PY	.003	.003	0	0
21	SO3	PY	.003	.003	0	0
22	MP ALPHA1	PY	.003	.003	0	0
23	MP ALPHA2	PY	.003	.003	0	0
24	MP ALPHA3	PY	.003	.003	0	0
25	MP ALPHA4	PY	.003	.003	0	0
26	MP ALPHA5	PY	.003	.003	0	0
27	MP ALPHA6	PY	.003	.003	0	0
28	MP BETA1	PY	.003	.003	0	0
29	MP BETA2	PY	.003	.003	0	0
30	MP BETA3	PY	.003	.003	0	0
31	MP BETA4	PY	.003	.003	0	0
32	MP BETA5	PY	.003	.003	0	0
33	MP GAMMA1	PY	.003	.003	0	0
34	MP GAMMA2	PY	.003	.003	0	0
35	MP GAMMA3	PY	.003	.003	0	0
36	MP GAMMA4	PY	.003	.003	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP GAMMA5	PY	.003	.003	0	0
38	ANGLE1	PX	-.001	-.001	0	0
39	ANGLE2	PX	-.001	-.001	0	0
40	ANGLE3	PX	-.001	-.001	0	0
41	CORNER1	PX	-.001	-.001	0	0
42	CORNER2	PX	-.001	-.001	0	0
43	CORNER3	PX	-.001	-.001	0	0
44	FACE2	PX	-.001	-.001	0	0
45	FACE1	PX	-.002	-.002	0	0
46	FACE3	PX	-.002	-.002	0	0
47	KICKER1	PX	-.001	-.001	0	0
48	KICKER2	PX	-.001	-.001	0	0
49	KICKER3	PX	-.001	-.001	0	0
50	RAIL2	PX	-.000631	-.000631	0	0
51	RAIL1	PX	-.001	-.001	0	0
52	RAIL3	PX	-.001	-.001	0	0
53	RCORNER1	PX	-.002	-.002	0	0
54	RCORNER2	PX	-.002	-.002	0	0
55	RCORNER3	PX	-.002	-.002	0	0
56	SO1	PX	-.002	-.002	0	0
57	SO2	PX	-.002	-.002	0	0
58	SO3	PX	-.002	-.002	0	0
59	MP ALPHA1	PX	-.002	-.002	0	0
60	MP ALPHA2	PX	-.002	-.002	0	0
61	MP ALPHA3	PX	-.002	-.002	0	0
62	MP ALPHA4	PX	-.002	-.002	0	0
63	MP ALPHA5	PX	-.002	-.002	0	0
64	MP ALPHA6	PX	-.002	-.002	0	0
65	MP BETA1	PX	-.002	-.002	0	0
66	MP BETA2	PX	-.002	-.002	0	0
67	MP BETA3	PX	-.002	-.002	0	0
68	MP BETA4	PX	-.002	-.002	0	0
69	MP BETA5	PX	-.002	-.002	0	0
70	MP GAMMA1	PX	-.002	-.002	0	0
71	MP GAMMA2	PX	-.002	-.002	0	0
72	MP GAMMA3	PX	-.002	-.002	0	0
73	MP GAMMA4	PX	-.002	-.002	0	0
74	MP GAMMA5	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.002	.002	0	0
2	ANGLE2	PY	.002	.002	0	0
3	ANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.002	.002	0	0
5	CORNER2	PY	.002	.002	0	0
6	CORNER3	PY	.002	.002	0	0
7	FACE2	PY	.002	.002	0	0
8	FACE1	PY	.005	.005	0	0
9	FACE3	PY	.005	.005	0	0
10	KICKER1	PY	.003	.003	0	0
11	KICKER2	PY	.003	.003	0	0
12	KICKER3	PY	.003	.003	0	0
13	RAIL2	PY	.001	.001	0	0
14	RAIL1	PY	.003	.003	0	0
15	RAIL3	PY	.003	.003	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	RCORNER1	PY	.004	.004	0	0
17	RCORNER2	PY	.004	.004	0	0
18	RCORNER3	PY	.004	.004	0	0
19	SO1	PY	.003	.003	0	0
20	SO2	PY	.003	.003	0	0
21	SO3	PY	.003	.003	0	0
22	MP ALPHA1	PY	.003	.003	0	0
23	MP ALPHA2	PY	.003	.003	0	0
24	MP ALPHA3	PY	.003	.003	0	0
25	MP ALPHA4	PY	.003	.003	0	0
26	MP ALPHA5	PY	.003	.003	0	0
27	MP ALPHA6	PY	.003	.003	0	0
28	MP BETA1	PY	.003	.003	0	0
29	MP BETA2	PY	.003	.003	0	0
30	MP BETA3	PY	.003	.003	0	0
31	MP BETA4	PY	.003	.003	0	0
32	MP BETA5	PY	.003	.003	0	0
33	MP GAMMA1	PY	.003	.003	0	0
34	MP GAMMA2	PY	.003	.003	0	0
35	MP GAMMA3	PY	.003	.003	0	0
36	MP GAMMA4	PY	.003	.003	0	0
37	MP GAMMA5	PY	.003	.003	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.002	.002	0	0
2	ANGLE2	PY	.002	.002	0	0
3	ANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.002	.002	0	0
5	CORNER2	PY	.002	.002	0	0
6	CORNER3	PY	.002	.002	0	0
7	FACE3	PY	.002	.002	0	0
8	FACE1	PY	.004	.004	0	0
9	FACE2	PY	.004	.004	0	0
10	KICKER1	PY	.002	.002	0	0
11	KICKER2	PY	.002	.002	0	0
12	KICKER3	PY	.002	.002	0	0
13	RAIL3	PY	.001	.001	0	0
14	RAIL1	PY	.002	.002	0	0
15	RAIL2	PY	.002	.002	0	0
16	RCORNER1	PY	.003	.003	0	0
17	RCORNER2	PY	.003	.003	0	0
18	RCORNER3	PY	.003	.003	0	0
19	SO1	PY	.003	.003	0	0
20	SO2	PY	.003	.003	0	0
21	SO3	PY	.003	.003	0	0
22	MP ALPHA1	PY	.003	.003	0	0
23	MP ALPHA2	PY	.003	.003	0	0
24	MP ALPHA3	PY	.003	.003	0	0
25	MP ALPHA4	PY	.003	.003	0	0
26	MP ALPHA5	PY	.003	.003	0	0
27	MP ALPHA6	PY	.003	.003	0	0
28	MP BETA1	PY	.003	.003	0	0
29	MP BETA2	PY	.003	.003	0	0
30	MP BETA3	PY	.003	.003	0	0
31	MP BETA4	PY	.003	.003	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
32	MP BETA5	PY	.003	.003	0	0
33	MP GAMMA1	PY	.003	.003	0	0
34	MP GAMMA2	PY	.003	.003	0	0
35	MP GAMMA3	PY	.003	.003	0	0
36	MP GAMMA4	PY	.003	.003	0	0
37	MP GAMMA5	PY	.003	.003	0	0
38	ANGLE1	PX	.001	.001	0	0
39	ANGLE2	PX	.001	.001	0	0
40	ANGLE3	PX	.001	.001	0	0
41	CORNER1	PX	.001	.001	0	0
42	CORNER2	PX	.001	.001	0	0
43	CORNER3	PX	.001	.001	0	0
44	FACE3	PX	.001	.001	0	0
45	FACE1	PX	.002	.002	0	0
46	FACE2	PX	.002	.002	0	0
47	KICKER1	PX	.001	.001	0	0
48	KICKER2	PX	.001	.001	0	0
49	KICKER3	PX	.001	.001	0	0
50	RAIL3	PX	.000631	.000631	0	0
51	RAIL1	PX	.001	.001	0	0
52	RAIL2	PX	.001	.001	0	0
53	RCORNER1	PX	.002	.002	0	0
54	RCORNER2	PX	.002	.002	0	0
55	RCORNER3	PX	.002	.002	0	0
56	SO1	PX	.002	.002	0	0
57	SO2	PX	.002	.002	0	0
58	SO3	PX	.002	.002	0	0
59	MP ALPHA1	PX	.002	.002	0	0
60	MP ALPHA2	PX	.002	.002	0	0
61	MP ALPHA3	PX	.002	.002	0	0
62	MP ALPHA4	PX	.002	.002	0	0
63	MP ALPHA5	PX	.002	.002	0	0
64	MP ALPHA6	PX	.002	.002	0	0
65	MP BETA1	PX	.002	.002	0	0
66	MP BETA2	PX	.002	.002	0	0
67	MP BETA3	PX	.002	.002	0	0
68	MP BETA4	PX	.002	.002	0	0
69	MP BETA5	PX	.002	.002	0	0
70	MP GAMMA1	PX	.002	.002	0	0
71	MP GAMMA2	PX	.002	.002	0	0
72	MP GAMMA3	PX	.002	.002	0	0
73	MP GAMMA4	PX	.002	.002	0	0
74	MP GAMMA5	PX	.002	.002	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	.001	.001	0	0
2	ANGLE2	PY	.001	.001	0	0
3	ANGLE3	PY	.001	.001	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0
6	CORNER3	PY	.001	.001	0	0
7	FACE3	PY	.001	.001	0	0
8	FACE1	PY	.002	.002	0	0
9	FACE2	PY	.002	.002	0	0
10	KICKER1	PY	.001	.001	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	KICKER2	PY	.001	.001	0	0
12	KICKER3	PY	.001	.001	0	0
13	RAIL3	PY	.000631	.000631	0	0
14	RAIL1	PY	.001	.001	0	0
15	RAIL2	PY	.001	.001	0	0
16	RCORNER1	PY	.002	.002	0	0
17	RCORNER2	PY	.002	.002	0	0
18	RCORNER3	PY	.002	.002	0	0
19	SO1	PY	.002	.002	0	0
20	SO2	PY	.002	.002	0	0
21	SO3	PY	.002	.002	0	0
22	MP ALPHA1	PY	.002	.002	0	0
23	MP ALPHA2	PY	.002	.002	0	0
24	MP ALPHA3	PY	.002	.002	0	0
25	MP ALPHA4	PY	.002	.002	0	0
26	MP ALPHA5	PY	.002	.002	0	0
27	MP ALPHA6	PY	.002	.002	0	0
28	MP BETA1	PY	.002	.002	0	0
29	MP BETA2	PY	.002	.002	0	0
30	MP BETA3	PY	.002	.002	0	0
31	MP BETA4	PY	.002	.002	0	0
32	MP BETA5	PY	.002	.002	0	0
33	MP GAMMA1	PY	.002	.002	0	0
34	MP GAMMA2	PY	.002	.002	0	0
35	MP GAMMA3	PY	.002	.002	0	0
36	MP GAMMA4	PY	.002	.002	0	0
37	MP GAMMA5	PY	.002	.002	0	0
38	ANGLE1	PX	.002	.002	0	0
39	ANGLE2	PX	.002	.002	0	0
40	ANGLE3	PX	.002	.002	0	0
41	CORNER1	PX	.002	.002	0	0
42	CORNER2	PX	.002	.002	0	0
43	CORNER3	PX	.002	.002	0	0
44	FACE3	PX	.002	.002	0	0
45	FACE1	PX	.004	.004	0	0
46	FACE2	PX	.004	.004	0	0
47	KICKER1	PX	.002	.002	0	0
48	KICKER2	PX	.002	.002	0	0
49	KICKER3	PX	.002	.002	0	0
50	RAIL3	PX	.001	.001	0	0
51	RAIL1	PX	.002	.002	0	0
52	RAIL2	PX	.002	.002	0	0
53	RCORNER1	PX	.003	.003	0	0
54	RCORNER2	PX	.003	.003	0	0
55	RCORNER3	PX	.003	.003	0	0
56	SO1	PX	.003	.003	0	0
57	SO2	PX	.003	.003	0	0
58	SO3	PX	.003	.003	0	0
59	MP ALPHA1	PX	.003	.003	0	0
60	MP ALPHA2	PX	.003	.003	0	0
61	MP ALPHA3	PX	.003	.003	0	0
62	MP ALPHA4	PX	.003	.003	0	0
63	MP ALPHA5	PX	.003	.003	0	0
64	MP ALPHA6	PX	.003	.003	0	0
65	MP BETA1	PX	.003	.003	0	0
66	MP BETA2	PX	.003	.003	0	0
67	MP BETA3	PX	.003	.003	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
68	MP BETA4	PX	.003	.003	0	0
69	MP BETA5	PX	.003	.003	0	0
70	MP GAMMA1	PX	.003	.003	0	0
71	MP GAMMA2	PX	.003	.003	0	0
72	MP GAMMA3	PX	.003	.003	0	0
73	MP GAMMA4	PX	.003	.003	0	0
74	MP GAMMA5	PX	.003	.003	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PX	.002	.002	0	0
2	ANGLE2	PX	.002	.002	0	0
3	ANGLE3	PX	.002	.002	0	0
4	CORNER1	PX	.002	.002	0	0
5	CORNER2	PX	.002	.002	0	0
6	CORNER3	PX	.002	.002	0	0
7	FACE3	PX	.002	.002	0	0
8	FACE1	PX	.005	.005	0	0
9	FACE2	PX	.005	.005	0	0
10	KICKER1	PX	.003	.003	0	0
11	KICKER2	PX	.003	.003	0	0
12	KICKER3	PX	.003	.003	0	0
13	RAIL3	PX	.001	.001	0	0
14	RAIL1	PX	.003	.003	0	0
15	RAIL2	PX	.003	.003	0	0
16	RCORNER1	PX	.004	.004	0	0
17	RCORNER2	PX	.004	.004	0	0
18	RCORNER3	PX	.004	.004	0	0
19	SO1	PX	.003	.003	0	0
20	SO2	PX	.003	.003	0	0
21	SO3	PX	.003	.003	0	0
22	MP ALPHA1	PX	.003	.003	0	0
23	MP ALPHA2	PX	.003	.003	0	0
24	MP ALPHA3	PX	.003	.003	0	0
25	MP ALPHA4	PX	.003	.003	0	0
26	MP ALPHA5	PX	.003	.003	0	0
27	MP ALPHA6	PX	.003	.003	0	0
28	MP BETA1	PX	.003	.003	0	0
29	MP BETA2	PX	.003	.003	0	0
30	MP BETA3	PX	.003	.003	0	0
31	MP BETA4	PX	.003	.003	0	0
32	MP BETA5	PX	.003	.003	0	0
33	MP GAMMA1	PX	.003	.003	0	0
34	MP GAMMA2	PX	.003	.003	0	0
35	MP GAMMA3	PX	.003	.003	0	0
36	MP GAMMA4	PX	.003	.003	0	0
37	MP GAMMA5	PX	.003	.003	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.001	-.001	0	0
2	ANGLE2	PY	-.001	-.001	0	0
3	ANGLE3	PY	-.001	-.001	0	0
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	FACE3	PY	-.001	-.001	0	0
8	FACE1	PY	-.002	-.002	0	0
9	FACE2	PY	-.002	-.002	0	0
10	KICKER1	PY	-.001	-.001	0	0
11	KICKER2	PY	-.001	-.001	0	0
12	KICKER3	PY	-.001	-.001	0	0
13	RAIL3	PY	-.000631	-.000631	0	0
14	RAIL1	PY	-.001	-.001	0	0
15	RAIL2	PY	-.001	-.001	0	0
16	RCORNER1	PY	-.002	-.002	0	0
17	RCORNER2	PY	-.002	-.002	0	0
18	RCORNER3	PY	-.002	-.002	0	0
19	SO1	PY	-.002	-.002	0	0
20	SO2	PY	-.002	-.002	0	0
21	SO3	PY	-.002	-.002	0	0
22	MP ALPHA1	PY	-.002	-.002	0	0
23	MP ALPHA2	PY	-.002	-.002	0	0
24	MP ALPHA3	PY	-.002	-.002	0	0
25	MP ALPHA4	PY	-.002	-.002	0	0
26	MP ALPHA5	PY	-.002	-.002	0	0
27	MP ALPHA6	PY	-.002	-.002	0	0
28	MP BETA1	PY	-.002	-.002	0	0
29	MP BETA2	PY	-.002	-.002	0	0
30	MP BETA3	PY	-.002	-.002	0	0
31	MP BETA4	PY	-.002	-.002	0	0
32	MP BETA5	PY	-.002	-.002	0	0
33	MP GAMMA1	PY	-.002	-.002	0	0
34	MP GAMMA2	PY	-.002	-.002	0	0
35	MP GAMMA3	PY	-.002	-.002	0	0
36	MP GAMMA4	PY	-.002	-.002	0	0
37	MP GAMMA5	PY	-.002	-.002	0	0
38	ANGLE1	PX	.002	.002	0	0
39	ANGLE2	PX	.002	.002	0	0
40	ANGLE3	PX	.002	.002	0	0
41	CORNER1	PX	.002	.002	0	0
42	CORNER2	PX	.002	.002	0	0
43	CORNER3	PX	.002	.002	0	0
44	FACE3	PX	.002	.002	0	0
45	FACE1	PX	.004	.004	0	0
46	FACE2	PX	.004	.004	0	0
47	KICKER1	PX	.002	.002	0	0
48	KICKER2	PX	.002	.002	0	0
49	KICKER3	PX	.002	.002	0	0
50	RAIL3	PX	.001	.001	0	0
51	RAIL1	PX	.002	.002	0	0
52	RAIL2	PX	.002	.002	0	0
53	RCORNER1	PX	.003	.003	0	0
54	RCORNER2	PX	.003	.003	0	0
55	RCORNER3	PX	.003	.003	0	0
56	SO1	PX	.003	.003	0	0
57	SO2	PX	.003	.003	0	0
58	SO3	PX	.003	.003	0	0
59	MP ALPHA1	PX	.003	.003	0	0
60	MP ALPHA2	PX	.003	.003	0	0
61	MP ALPHA3	PX	.003	.003	0	0
62	MP ALPHA4	PX	.003	.003	0	0
63	MP ALPHA5	PX	.003	.003	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	MP ALPHA6	PX	.003	.003	0	0
65	MP BETA1	PX	.003	.003	0	0
66	MP BETA2	PX	.003	.003	0	0
67	MP BETA3	PX	.003	.003	0	0
68	MP BETA4	PX	.003	.003	0	0
69	MP BETA5	PX	.003	.003	0	0
70	MP GAMMA1	PX	.003	.003	0	0
71	MP GAMMA2	PX	.003	.003	0	0
72	MP GAMMA3	PX	.003	.003	0	0
73	MP GAMMA4	PX	.003	.003	0	0
74	MP GAMMA5	PX	.003	.003	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	PY	-.002	-.002	0	0
2	ANGLE2	PY	-.002	-.002	0	0
3	ANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.002	-.002	0	0
5	CORNER2	PY	-.002	-.002	0	0
6	CORNER3	PY	-.002	-.002	0	0
7	FACE1	PY	-.002	-.002	0	0
8	FACE2	PY	-.004	-.004	0	0
9	FACE3	PY	-.004	-.004	0	0
10	KICKER1	PY	-.002	-.002	0	0
11	KICKER2	PY	-.002	-.002	0	0
12	KICKER3	PY	-.002	-.002	0	0
13	RAIL1	PY	-.001	-.001	0	0
14	RAIL2	PY	-.002	-.002	0	0
15	RAIL3	PY	-.002	-.002	0	0
16	RCORNER1	PY	-.003	-.003	0	0
17	RCORNER2	PY	-.003	-.003	0	0
18	RCORNER3	PY	-.003	-.003	0	0
19	SO1	PY	-.003	-.003	0	0
20	SO2	PY	-.003	-.003	0	0
21	SO3	PY	-.003	-.003	0	0
22	MP ALPHA1	PY	-.003	-.003	0	0
23	MP ALPHA2	PY	-.003	-.003	0	0
24	MP ALPHA3	PY	-.003	-.003	0	0
25	MP ALPHA4	PY	-.003	-.003	0	0
26	MP ALPHA5	PY	-.003	-.003	0	0
27	MP ALPHA6	PY	-.003	-.003	0	0
28	MP BETA1	PY	-.003	-.003	0	0
29	MP BETA2	PY	-.003	-.003	0	0
30	MP BETA3	PY	-.003	-.003	0	0
31	MP BETA4	PY	-.003	-.003	0	0
32	MP BETA5	PY	-.003	-.003	0	0
33	MP GAMMA1	PY	-.003	-.003	0	0
34	MP GAMMA2	PY	-.003	-.003	0	0
35	MP GAMMA3	PY	-.003	-.003	0	0
36	MP GAMMA4	PY	-.003	-.003	0	0
37	MP GAMMA5	PY	-.003	-.003	0	0
38	ANGLE1	PX	.001	.001	0	0
39	ANGLE2	PX	.001	.001	0	0
40	ANGLE3	PX	.001	.001	0	0
41	CORNER1	PX	.001	.001	0	0
42	CORNER2	PX	.001	.001	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	CORNER3	PX	.001	.001	0	0
44	FACE1	PX	.001	.001	0	0
45	FACE2	PX	.002	.002	0	0
46	FACE3	PX	.002	.002	0	0
47	KICKER1	PX	.001	.001	0	0
48	KICKER2	PX	.001	.001	0	0
49	KICKER3	PX	.001	.001	0	0
50	RAIL1	PX	.000631	.000631	0	0
51	RAIL2	PX	.001	.001	0	0
52	RAIL3	PX	.001	.001	0	0
53	RCORNER1	PX	.002	.002	0	0
54	RCORNER2	PX	.002	.002	0	0
55	RCORNER3	PX	.002	.002	0	0
56	SO1	PX	.002	.002	0	0
57	SO2	PX	.002	.002	0	0
58	SO3	PX	.002	.002	0	0
59	MP ALPHA1	PX	.002	.002	0	0
60	MP ALPHA2	PX	.002	.002	0	0
61	MP ALPHA3	PX	.002	.002	0	0
62	MP ALPHA4	PX	.002	.002	0	0
63	MP ALPHA5	PX	.002	.002	0	0
64	MP ALPHA6	PX	.002	.002	0	0
65	MP BETA1	PX	.002	.002	0	0
66	MP BETA2	PX	.002	.002	0	0
67	MP BETA3	PX	.002	.002	0	0
68	MP BETA4	PX	.002	.002	0	0
69	MP BETA5	PX	.002	.002	0	0
70	MP GAMMA1	PX	.002	.002	0	0
71	MP GAMMA2	PX	.002	.002	0	0
72	MP GAMMA3	PX	.002	.002	0	0
73	MP GAMMA4	PX	.002	.002	0	0
74	MP GAMMA5	PX	.002	.002	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	Z	-.009	-.009	.021	7.513
2	CORNER1	Z	-.002	-.009	0	1.867
3	CORNER1	Z	-.009	-.017	1.867	3.733
4	CORNER3	Z	-.002	-.009	0	1.867
5	CORNER3	Z	-.009	-.017	1.867	3.733
6	FACE1	Z	-.0005142	-.007	0	2.333
7	FACE1	Z	-.007	-.009	2.333	4.667
8	FACE1	Z	-.009	-.008	4.667	7
9	FACE1	Z	-.008	-.009	7	9.333
10	FACE1	Z	-.009	-.007	9.333	11.667
11	FACE1	Z	-.007	-.0005142	11.667	14
12	ANGLE3	Z	-.009	-.009	.021	7.513
13	CORNER2	Z	-.002	-.009	0	1.867
14	CORNER2	Z	-.009	-.017	1.867	3.733
15	FACE3	Z	-.0005142	-.007	0	2.333
16	FACE3	Z	-.007	-.009	2.333	4.667
17	FACE3	Z	-.009	-.008	4.667	7
18	FACE3	Z	-.008	-.009	7	9.333
19	FACE3	Z	-.009	-.007	9.333	11.667
20	FACE3	Z	-.007	-.0005142	11.667	14
21	ANGLE2	Z	-.009	-.009	.021	7.513

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	FACE2	Z	-.0005142	-.007	0	2.333
23	FACE2	Z	-.007	-.009	2.333	4.667
24	FACE2	Z	-.009	-.008	4.667	7
25	FACE2	Z	-.008	-.009	7	9.333
26	FACE2	Z	-.009	-.007	9.333	11.667
27	FACE2	Z	-.007	-.0005142	11.667	14

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ANGLE1	Z	-.013	-.013	.021	7.513
2	CORNER1	Z	-.003	-.013	0	1.867
3	CORNER1	Z	-.013	-.023	1.867	3.733
4	CORNER3	Z	-.003	-.013	0	1.867
5	CORNER3	Z	-.013	-.023	1.867	3.733
6	FACE1	Z	-.0007198	-.01	0	2.333
7	FACE1	Z	-.01	-.013	2.333	4.667
8	FACE1	Z	-.013	-.011	4.667	7
9	FACE1	Z	-.011	-.013	7	9.333
10	FACE1	Z	-.013	-.01	9.333	11.667
11	FACE1	Z	-.01	-.0007198	11.667	14
12	ANGLE3	Z	-.013	-.013	.021	7.513
13	CORNER2	Z	-.003	-.013	0	1.867
14	CORNER2	Z	-.013	-.023	1.867	3.733
15	FACE3	Z	-.0007198	-.01	0	2.333
16	FACE3	Z	-.01	-.013	2.333	4.667
17	FACE3	Z	-.013	-.011	4.667	7
18	FACE3	Z	-.011	-.013	7	9.333
19	FACE3	Z	-.013	-.01	9.333	11.667
20	FACE3	Z	-.01	-.0007198	11.667	14
21	ANGLE2	Z	-.013	-.013	.021	7.513
22	FACE2	Z	-.0007198	-.01	0	2.333
23	FACE2	Z	-.01	-.013	2.333	4.667
24	FACE2	Z	-.013	-.011	4.667	7
25	FACE2	Z	-.011	-.013	7	9.333
26	FACE2	Z	-.013	-.01	9.333	11.667
27	FACE2	Z	-.01	-.0007198	11.667	14

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N9	N10	N12	N11	Z	Two Way	-.01
2	N11	N12	N8	N7	Z	Two Way	-.01
3	N7	N9	N10	N8	Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N9	N10	N12	N11	Z	Two Way	-.014
2	N11	N12	N8	N7	Z	Two Way	-.014
3	N7	N9	N10	N8	Z	Two Way	-.014

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Member)	Surface(...
1	Live Load	DL					1			
2	Wind Load (0)	DL					43	37		
3	Dead Load	DL			-1.1		43		3	
4	Wind Load (30)	DL					86	74		
5	Wind Load (60)	DL					86	74		
6	Wind Load (90)	DL					43	37		
7	Wind Load (120)	DL					86	74		
8	Wind Load (150)	DL					86	74		
9	Wind Load (180)	DL					43	37		
10	Wind Load (210)	DL					86	74		
11	Wind Load (240)	DL					86	74		
12	Wind Load (270)	DL					43	37		
13	Wind Load (300)	DL					86	74		
14	Wind Load (330)	DL					86	74		
15	Maintanence (0)	DL					43	37		
16	Maintanence (30)	DL					86	74		
17	Maintanence (60)	DL					86	74		
18	Maintanence (90)	DL					43	37		
19	Maintanence (120)	DL					86	74		
20	Maintanence (150)	DL					86	74		
21	Maintanence (180)	DL					43	37		
22	Maintanence (210)	DL					86	74		
23	Maintanence (240)	DL					86	74		
24	Maintanence (270)	DL					43	37		
25	Maintanence (300)	DL					86	74		
26	Maintanence (330)	DL					86	74		
27	Ice Dead Load	DL					43	37	3	
28	Ice Wind Load (0)	DL					43	37		
29	Ice Wind Load (30)	DL					86	74		
30	Ice Wind Load (60)	DL					86	74		
31	Ice Wind Load (90)	DL					43	37		
32	Ice Wind Load (120)	DL					86	74		
33	Ice Wind Load (150)	DL					86	74		
34	Ice Wind Load (180)	DL					43	37		
35	Ice Wind Load (210)	DL					86	74		
36	Ice Wind Load (240)	DL					86	74		
37	Ice Wind Load (270)	DL					43	37		
38	Ice Wind Load (300)	DL					86	74		
39	Ice Wind Load (330)	DL					86	74		
40	Earthquake (x-directi...	DL	-.119				43			
41	Earthquake (y-directi...	DL		-.119			43			
42	Earthquake (z-directi...	DL			-.048		43			
43	BLC 3 Transient Are...	None						27		
44	BLC 27 Transient Ar...	None						27		

Load Combinations

	Description	So..	P...	SR..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact...
1	1.4D	Yes	Y		3	1.4																				
2	1.2D + 1.0W(0)	Yes	Y		3	1.2	2	1																		
3	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	28	1																
4	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	15	1																
5	1.2D + 1.0W(30)	Yes	Y		3	1.2	4	1																		
6	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	29	1																
7	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	16	1																
8	1.2D + 1.0W(60)	Yes	Y		3	1.2	5	1																		

Load Combinations (Continued)

	Description	So...	P...	SR..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact...
9	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	17	1														
11	1.2D + 1.0W(90)	Yes	Y		3	1.2	6	1																
12	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	18	1														
14	1.2D + 1.0W(1...	Yes	Y		3	1.2	7	1																
15	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	19	1														
17	1.2D + 1.0W(1...	Yes	Y		3	1.2	8	1																
18	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	20	1														
20	1.2D + 1.0W(1...	Yes	Y		3	1.2	9	1																
21	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	21	1														
23	1.2D + 1.0W(2...	Yes	Y		3	1.2	10	1																
24	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	22	1														
26	1.2D + 1.0W(2...	Yes	Y		3	1.2	11	1																
27	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	23	1														
29	1.2D + 1.0W(2...	Yes	Y		3	1.2	12	1																
30	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	24	1														
32	1.2D + 1.0W(3...	Yes	Y		3	1.2	13	1																
33	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	25	1														
35	1.2D + 1.0W(3...	Yes	Y		3	1.2	14	1																
36	1.2D + 1.0Di +...	Yes	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L + ...	Yes	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(x)...	Yes	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(y)...	Yes	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x) ...	Yes	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y) ...	Yes	Y		3	1.2	41	-1	42	1	1	1												

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N96	max	.028	11	2.421	21	2.442	21	.57	21	.042	11	.068	29
2		min	-.028	29	.234	2	.233	2	.054	2	-.042	29	-.066	11
3	N95	max	2.097	33	-.161	14	2.443	33	-.027	17	-.062	14	.057	5
4		min	.276	14	-1.215	33	.316	14	-.28	36	-.502	33	-.042	23
5	N97	max	-.189	26	-.11	26	2.493	9	-.015	23	.512	9	.046	17
6		min	-2.14	9	-1.241	9	.217	26	-.283	6	.04	26	-.055	35
7	N53	max	2.125	14	3.04	2	.737	6	1.386	18	-.75	17	3.194	32
8		min	-1.786	32	-2.911	20	.214	23	.331	35	-2.441	36	-3.261	14
9	N57	max	2.104	8	3.441	5	.734	30	1.499	24	2.345	12	3.631	26
10		min	-2.348	26	-3.266	23	.238	11	.088	5	1.028	29	-3.71	8
11	N49	max	3.506	8	.7	2	.848	18	-1.212	26	.599	8	3.22	8
12		min	-3.434	26	-1.148	20	.266	35	-3.048	9	-.523	29	-3.167	26
13	Totals:	max	5.873	11	5.682	2	8.979	21						
14		min	-5.873	29	-5.775	20	4.525	2						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Cb	Eqn
1	FACE2	L3X3X4	1.006	14	8	.165	7	y	29	3.945	46.6...	1.688	3.43	3.69	H2-1
2	FACE1	L3X3X4	.996	0	8	.252	7	y	20	3.945	46.6...	1.688	3.217	2.77	H2-1
3	FACE3	L3X3X4	.928	14	20	.278	7	y	8	3.945	46.6...	1.688	3.414	3.6...	H2-1
4	BAR7	SR 5/8	.674	0	26	.049	0		5	9.626	15.7...	.164	.164	2.2...	H1-...
5	BAR8	SR 5/8	.664	0	8	.050	0		5	9.626	15.7...	.164	.164	2.2...	H1-...
6	BAR4	SR 5/8	.563	0	26	.064	0		26	9.626	15.7...	.164	.164	2.2...	H1-...
7	BAR12	SR 5/8	.560	0	14	.063	0		20	9.626	15.7...	.164	.164	2.2...	H1-...
8	CORNER1	LL3x3x...	.552	2.606	9	.071	2.606	y	6	76.5...	93.3...	6.48	4.369	1.4...	H1-...
9	RAIL2	PIPE_2...	.552	1.25	8	.039	12.083		8	5.533	32.13	1.872	1.872	1.9...	H1-...
10	BAR11	SR 5/8	.550	1	2	.062	0		20	9.626	15.7...	.164	.164	2.2...	H1-...
11	BAR3	SR 5/8	.550	1	14	.063	0		26	9.626	15.7...	.164	.164	2.2...	H1-...
12	CORNER3	LL3x3x...	.536	2.606	33	.060	2.606	y	33	76.5...	93.3...	6.48	4.369	2.2	H1-...
13	CORNER2	LL3x3x...	.531	2.606	21	.061	2.606	y	21	76.5...	93.3...	6.48	4.369	1.6...	H1-...
14	BAR2	SR 5/8	.522	0	9	.028	0		30	9.626	15.7...	.164	.164	2.2...	H1-...
15	BAR5	SR 5/8	.522	0	27	.032	0		26	9.626	15.7...	.164	.164	2.2...	H1-...
16	BAR10	SR 5/8	.521	0	33	.028	0		30	9.626	15.7...	.164	.164	2.2...	H1-...
17	BAR1	SR 5/8	.519	0	9	.028	0		30	9.626	15.7...	.164	.164	2.2...	H1-...
18	BAR9	SR 5/8	.517	0	36	.028	0		30	9.626	15.7...	.164	.164	2.2...	H1-...
19	BAR6	SR 5/8	.516	0	24	.031	0		26	9.626	15.7...	.164	.164	2.2...	H1-...
20	MP ALPH...	PIPE_2...	.508	3.563	29	.057	3.563		29	12.1...	32.13	1.872	1.872	1.9...	H1-...
21	MP BETA3	PIPE_2...	.505	3.563	5	.053	3.563		5	12.1...	32.13	1.872	1.872	1.8...	H1-...
22	RAIL1	PIPE_2...	.487	9.583	5	.046	12.083		2	5.533	32.13	1.872	1.872	1	H1-...
23	RAIL3	PIPE_2...	.480	1.25	20	.051	12.083		26	5.533	32.13	1.872	1.872	1.7...	H1-...
24	MP GAM...	PIPE_2...	.464	3.563	20	.054	3.563		20	12.1...	32.13	1.872	1.872	1.9...	H1-...
25	MP BETA2	PIPE_2...	.463	.5	5	.067	.5		8	20.8...	32.13	1.872	1.872	2.4...	H1-...
26	MP ALPH...	PIPE_2...	.450	.5	26	.061	.5		26	20.8...	32.13	1.872	1.872	2.0...	H1-...
27	MP GAM...	PIPE_2...	.436	.5	20	.060	.5		20	20.8...	32.13	1.872	1.872	2.4...	H1-...
28	SO1	HSS3.5...	.431	0	26	.175	0	y	23	113....	120....	12.0...	12.0...	2.7...	H1-...
29	ANGLE1	L3X3X4	.423	0	8	.036	0	y	9	13.6...	46.6...	1.688	3.559	2.4...	H2-1
30	ANGLE2	L3X3X4	.420	3.767	26	.032	0	y	21	13.6...	46.6...	1.688	3.376	1.84	H2-1
31	SO3	HSS3.5...	.413	0	8	.166	0	y	8	113....	120....	12.0...	12.0...	2.5	H1-...
32	SO2	HSS3.5...	.395	0	32	.157	0	y	35	113....	120....	12.0...	12.0...	2.6...	H1-...
33	ANGLE3	L3X3X4	.394	3.767	2	.032	7.534	y	21	13.6...	46.6...	1.688	3.37	1.8...	H2-1
34	MP ALPH...	PIPE_2...	.281	1.531	26	.073	1.531		26	17.8...	32.13	1.872	1.872	2.2...	H1-...
35	MP GAM...	PIPE_2...	.272	1.531	20	.072	1.531		20	17.8...	32.13	1.872	1.872	2.3...	H1-...
36	MP GAM...	PIPE_2...	.272	.5	20	.029	.5		20	20.8...	32.13	1.872	1.872	2.2...	H1-...
37	MP BETA5	PIPE_2...	.263	1.531	5	.063	1.531		5	17.8...	32.13	1.872	1.872	2.28	H1-...
38	MP ALPH...	PIPE_2...	.257	.5	26	.027	.5		29	20.8...	32.13	1.872	1.872	1.4...	H1-...
39	MP BETA1	PIPE_2...	.255	.5	5	.027	.5		5	20.8...	32.13	1.872	1.872	2.4...	H1-...
40	KICKER1	PIPE_2...	.176	0	9	.019	6.287		8	20.0...	32.13	1.872	1.872	1.1...	H1-...
41	KICKER3	PIPE_2...	.172	0	33	.018	6.288		29	20.0...	32.13	1.872	1.872	1.1...	H1-...
42	KICKER2	PIPE_2...	.172	0	21	.011	0		29	20.0...	32.13	1.872	1.872	1.1...	H1-...
43	MP GAM...	PIPE_2...	.133	2.188	26	.067	1.531		5	17.8...	32.13	1.872	1.872	1.7...	H1-...
44	MP ALPH...	PIPE_2...	.133	2.188	2	.067	1.531		17	17.8...	32.13	1.872	1.872	1.7...	H1-...
45	RCORNE...	6x0.375	.119	0	23	.024	0	y	8	18.4...	72.9	.57	8.708	1.1...	H1-...
46	RCORNE...	6x0.375	.110	1.499	23	.026	0	y	17	18.4...	72.9	.57	8.907	1.1...	H1-...
47	RCORNE...	6x0.375	.099	0	20	.032	1.499	y	5	18.4...	72.9	.57	9.113	1.6...	H1-...
48	MP BETA4	PIPE_2...	.097	2.844	11	.053	1.531		26	17.8...	32.13	1.872	1.872	2.2...	H1-...
49	MP ALPH...	PIPE_2...	.043	0	5	.004	0		5	26.4...	32.13	1.872	1.872	2.3...	H1-...

APPENDIX D

Additional Calculations

EOR Job #	**21-100048**	
Site Number	**817605**	KICKER
Site Name	**IL MOKENA**	

Calculations Based on *TIA-222-H*

Reactions from RISA-3D

Moment	1.717	ft-kip
Axial	4.781	kips
Shear	2.918	kips

Capacities

Bolts	*5.9%*
Flange Plate	*65.1%*

Bolt Information

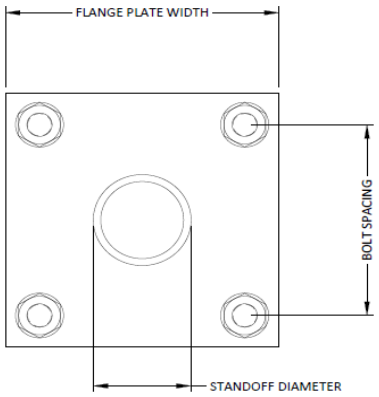
Grade	A325	
Threads in Shear Plane	Included	
Diameter	0.5	in.
Bolt Spacing	6	in.
Number of Rods	4	

Flange Plate Information

Width	8	in.
Thickness	0.5	in.
Grade	A36	

Standoff Information

Standoff Member	Pipe	
Diameter	2.375	in.
Thickness	0.201	in.



Bolt Calculations

ϕ	0.75	
A_{nt}	0.142	in^2
A_b	0.196	in^2
Fu	120	ksi
ϕR_{nV}	8.84	kips
ϕR_{nt}	12.77	kips
V	0.73	kips
F	2.91	kips
Capacity	5.9%	

Flange Plate Calculations

ϕ	0.9	
Fy	36	ksi
t_{min}	0.24	in
Z	0.5	in^3
ϕM_n	16.2	in-kip
M_u	10.5	in-kip
Capacity	65.1%	

Ver 1.0 - 3/5/2019

Date: **March 30, 2022**

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

Subject:	**Structural Analysis Report**	
Carrier Designation:	***AT&T Mobility* Co-Locate**	
	Site Number:	CTL02014
	Site Name:	Secondino Property
	FA Number:	10035270
Crown Castle Designation:	**BU Number:**	876316
	Site Name:	Secondino Property
	JDE Job Number:	700483
	Work Order Number:	2092846
	Order Number:	599668 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	137117.005.01
Site Data:	**21 Acorn Road, Branford, New Haven County, CT**	
	Latitude *41° 17' 35.06"*, Longitude *-72° 45' 46.4"*	
	147 Foot - Monopole Tower	

B+T Group is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

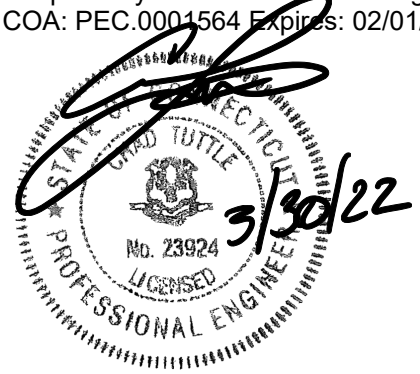
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity – 87.8%**

This analysis utilizes an ultimate 3-second gust wind speed of 122 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Michael Harris

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564 Expires: 02/01/2023



Chad E. Tuttle, P.E.

tnxTower Report - version 8.1.1.0

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 147 ft. Monopole tower designed by Summit.

The tower has been modified per reinforcement drawings prepared by PJF in March of 2009. Reinforcement consists of shaft reinforcing from 0' to 92.083' and transition stiffeners. The tower was later modified per reinforcement drawings prepared by PJF in April of 2017. Reinforcement consists of shaft reinforcing from 0' to 65.583' and transition stiffeners.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	122 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
106.0	106.0	3	Ericsson	AIR 6449 B77D_CCVI2	12 2 6 1 2	1-1/4 7/8 13/16 3/8 17/64
		1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		
	105.0	3	CCI Antennas	DMP65R-BU4D		
		3	CCI Antennas	TPA65R-BU4D		
		3	Ericsson	RADIO 4449 B5/B12		
		3	Ericsson	RRUS 32 B2_CCIV2		
		3	Ericsson	RRUS 32 B30		
		3	Ericsson	RRUS 4426 B66		
		3	Ericsson	RRUS 4478 B14		
		4	Raycap	DC6-48-60-18-8F		
	104.0	3	Ericsson	AIR 6419 B77G		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
147.0	147.0	3	Alcatel Lucent	1900MHZ RRH (65MHZ)	3 1	1-1/4 5/8
		3	Alcatel Lucent	800 External Notch Filter		
		3	Alcatel Lucent	800MHZ RRH		
		3	Alcatel Lucent	TD-RRH8X20-25		
		9	RFS Celwave	ACU-A20-N		
		3	RFS Celwave	APXVSPP18-C-A20		
		3	RFS Celwave	APXVTM14-C-120		
		1	--	Platform Mount [LP 1201-1_HR-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
136.0	137.0	3	Ericsson	AIR6449 B41_T-MOBILE	3	1-5/8
		3	Ericsson	RADIO 4415 B66A		
		3	Ericsson	RADIO 4424 B25_TMOV1		
		3	Ericsson	RADIO 4449 B71 B85A_ T-MOBILE		
		3	RFS Celwave	APX16DWV-16DWV-S-E-A20		
		3	RFS Celwave	APXVAALL24_43-U-NA20_TMO		
	136.0	1	Site Pro 1	RMQP-496-HK Platform Mount		
126.0	126.0	3	Fujitsu	TA08025-B604	1	1-1/2
		3	Fujitsu	TA08025-B605		
		3	JMA Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		
		1	Commscope	MC-PK8-DSH		
118.0	118.0	2	Raycap	RRFDC-3315-PF-48	2	1-1/4
115.0	116.0	2	Antel	LPA-80063/6CF	6	1-5/8
		2	Antel	LPA-80080/4CF		
		3	Commscope	CBC78T-DS-43-2X		
		6	Commscope	JAHH-65B-R3B		
		2	RFS Celwave	APL868013-42T0		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	RFV01U-D2A		
		3	VZW	Sub6 Antenna - VZS01		
	115.0	1	--	Platform Mount [LP 1201-1]		
76.0	77.0	1	Kathrein	OG-860/1920/GPS-A	--	--
		1	Lucent	KS24019-L112A		
	76.0	1	--	Side Arm Mount [SO 701-3]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	1632399	CCI Sites
Mount Analysis Report	10260104	CCI Sites
Tower Modification Drawing	2251030	CCI Sites
Post Modification Inspection	2417887	CCI Sites
Tower Modification Drawing	6823303	CCI Sites
Post Modification Inspection	7151513	CCI Sites
Foundation Drawing	1632435	CCI Sites
Geotech Report	1529736	CCI Sites
Crown CAD Package	Date: 03/21/2022	CCI Sites

3.1) Analysis Method

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

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

3.2) Assumptions

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

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	147 - 142	Pole	TP22.85x22x0.25	1	-4.206	--	4.3	Pass
L2	142 - 137	Pole	TP23.7x22.85x0.25	2	-4.565	--	7.9	Pass
L3	137 - 132	Pole	TP24.55x23.7x0.25	3	-9.150	--	15.0	Pass
L4	132 - 127	Pole	TP25.4x24.55x0.25	4	-9.598	--	21.5	Pass
L5	127 - 122	Pole	TP26.251x25.4x0.25	5	-12.946	--	29.6	Pass
L6	122 - 117	Pole	TP27.101x26.251x0.25	6	-13.490	--	37.3	Pass
L7	117 - 112	Pole	TP27.951x27.101x0.25	7	-18.236	--	47.2	Pass
L8	112 - 108.75	Pole	TP29.141x27.951x0.25	8	-18.658	--	53.3	Pass
L9	108.75 - 103.75	Pole	TP28.854x28.003x0.313	9	-25.218	--	50.9	Pass
L10	103.75 - 98.75	Pole	TP29.704x28.854x0.313	10	-26.135	--	59.1	Pass
L11	98.75 - 93.75	Pole	TP30.554x29.704x0.313	11	-27.090	--	66.6	Pass
L12	93.75 - 89.67	Pole	TP31.249x30.554x0.313	12	-27.895	--	72.2	Pass
L13	89.67 - 89.42	Pole	TP31.291x31.249x0.313	13	-27.960	--	72.5	Pass
L14	89.42 - 88.08	Pole	TP31.518x31.291x0.313	14	-28.206	--	74.3	Pass
L15	88.08 - 87.83	Pole + Reinf.	TP31.56x31.518x0.513	15	-28.293	--	63.1	Pass
L16	87.83 - 85.83	Pole + Reinf.	TP31.9x31.56x0.513	16	-28.798	--	65.5	Pass
L17	85.83 - 85.58	Pole + Reinf.	TP31.943x31.9x0.513	17	-28.872	--	65.7	Pass
L18	85.58 - 84.5	Pole + Reinf.	TP32.127x31.943x0.513	18	-29.142	--	67.0	Pass
L19	84.5 - 84.25	Pole + Reinf.	TP32.17x32.127x0.475	19	-29.218	--	69.2	Pass
L20	84.25 - 79.25	Pole + Reinf.	TP33.02x32.17x0.463	20	-30.532	--	74.8	Pass
L21	79.25 - 78	Pole + Reinf.	TP33.955x33.02x0.463	21	-30.865	--	76.1	Pass
L22	78 - 72.75	Pole + Reinf.	TP33.5x32.607x0.563	22	-33.452	--	72.9	Pass
L23	72.75 - 67.75	Pole + Reinf.	TP34.35x33.5x0.563	23	-34.943	--	77.1	Pass
L24	67.75 - 63.08	Pole + Reinf.	TP35.144x34.35x0.55	24	-36.361	--	80.7	Pass
L25	63.08 - 62.83	Pole + Reinf.	TP35.186x35.144x0.713	25	-36.470	--	66.2	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L26	62.83 - 57.83	Pole + Reinf.	TP36.036x35.186x0.7	26	-38.341	--	69.4	Pass
L27	57.83 - 52.83	Pole + Reinf.	TP36.887x36.036x0.688	27	-40.250	--	72.5	Pass
L28	52.83 - 47.83	Pole + Reinf.	TP37.737x36.887x0.688	28	-42.186	--	75.4	Pass
L29	47.83 - 47.5	Pole + Reinf.	TP38.601x37.737x0.675	29	-42.326	--	75.6	Pass
L30	47.5 - 42.5	Pole + Reinf.	TP37.894x37.043x0.75	30	-45.913	--	74.2	Pass
L31	42.5 - 37.5	Pole + Reinf.	TP38.744x37.894x0.738	31	-48.024	--	76.6	Pass
L32	37.5 - 32.75	Pole + Reinf.	TP39.551x38.744x0.738	32	-50.063	--	78.7	Pass
L33	32.75 - 32.5	Pole + Reinf.	TP39.594x39.551x0.788	33	-50.190	--	72.5	Pass
L34	32.5 - 27.5	Pole + Reinf.	TP40.444x39.594x0.775	34	-52.480	--	74.4	Pass
L35	27.5 - 22.5	Pole + Reinf.	TP41.294x40.444x0.763	35	-54.809	--	76.3	Pass
L36	22.5 - 17.5	Pole + Reinf.	TP42.144x41.294x0.763	36	-57.164	--	78.0	Pass
L37	17.5 - 12.5	Pole + Reinf.	TP42.995x42.144x0.75	37	-59.549	--	79.6	Pass
L38	12.5 - 8.08	Pole + Reinf.	TP43.746x42.995x0.738	38	-61.679	--	81.0	Pass
L39	8.08 - 7.83	Pole + Reinf.	TP43.788x43.746x0.8	39	-61.823	--	78.9	Pass
L40	7.83 - 6.42	Pole + Reinf.	TP44.029x43.788x0.788	40	-62.560	--	79.3	Pass
L41	6.42 - 6.17	Pole + Reinf.	TP44.071x44.029x0.775	41	-62.703	--	79.6	Pass
L42	6.17 - 1.17	Pole + Reinf.	TP44.922x44.071x0.763	42	-65.248	--	81.0	Pass
L43	1.17 - 0	Pole + Reinf.	TP45.12x44.922x0.763	43	-65.847	--	81.3	Pass
							Summary	
						Pole (L14)	74.3	Pass
						Reinforcement	81.3	Pass
						Rating =	81.3	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	87.8	Pass
1,2	Base Plate	Base	73.8	Pass
1,2	Base Foundation (Structure)	Base	81.2	Pass
1,2	Base Foundation (Soil Interaction)	Base	55.8	Pass

Structure Rating (max from all components) =	87.8%

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

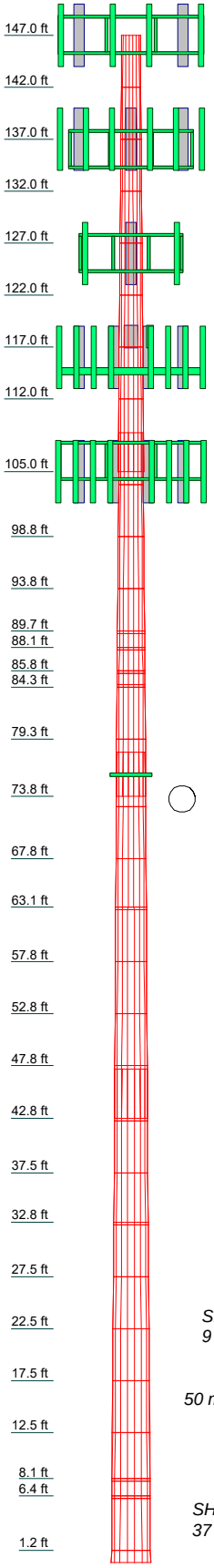
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.000	18	0.250		22.000	22.850		0.3
2	5.000	18	0.250		22.850	23.700		0.3
3	5.000	18	0.250		23.700	24.550		0.3
4	5.000	18	0.250		24.550	25.400		0.3
5	5.000	18	0.250		25.400	26.251		0.3
6	5.000	18	0.250		26.251	27.101		0.4
7	5.000	18	0.250		27.101	27.951		0.4
8	5.000	18	0.250	3.750	27.951	29.141		0.5
9	5.000	18	0.313		28.003	28.854		0.5
10	5.000	18	0.313		28.854	29.704		0.5
11	5.000	18	0.313		29.704	30.554		0.5
12	5.000	18	0.313		30.554	31.249		0.4
13	5.000	18	0.313		31.249	32.099		0.4
14	5.000	18	0.313		32.099	32.949		0.4
15	5.000	18	0.313		32.949	33.799		0.4
16	5.000	18	0.313		33.799	34.649		0.4
17	5.000	18	0.313		34.649	35.499		0.4
18	5.000	18	0.313		35.499	36.349		0.4
19	5.000	18	0.313		36.349	37.199		0.4
20	5.000	18	0.463		32.172	33.020		0.8
21	5.000	18	0.463	4.250	33.020	33.955		0.9
22	5.000	18	0.563		33.955	34.350		1.0
23	5.000	18	0.563		33.500	34.350		1.0
24	5.000	18	0.550		34.350	35.144		0.9
25	5.000	18	0.550		34.350	35.144		0.9
26	5.000	18	0.700		35.185	36.036		1.3
27	5.000	18	0.688		36.036	36.887		1.3
28	5.000	18	0.688		36.887	37.737		1.3
29	5.000	18	0.675		37.737	38.601		1.4
30	5.000	18	0.750	4.750	37.737	38.746		1.5
31	5.000	18	0.738		37.897	38.746		1.5
32	4.750	18	0.738		38.744	39.590		1.4
33	5.000	18	0.787		38.744	39.590		1.6
34	5.000	18	0.776		39.590	40.444		1.6
35	5.000	18	0.762		40.444	41.294		1.7
36	5.000	18	0.762		41.294	42.144		1.7
37	5.000	18	0.750		42.144	42.995		1.7
38	5.000	18	0.738		42.995	43.746		1.5
39	5.000	18	0.725		43.746	44.596		1.5
40	5.000	18	0.713		44.596	45.446		1.5
41	5.000	18	0.700		45.446	46.296		1.5
42	5.000	18	0.700		46.296	47.146		1.5
43	1.167	18	0.762		47.146	47.996		0.4
44	5.000	18	0.762		47.996	48.846		1.8
45	1.124	18	0.762		48.846	49.696		0.4
							A607-60	31.2



ALL REACTIONS ARE FACTORED

AXIAL 91 K

SHEAR 9 K *MOMENT 1002 kip-ft*

TORQUE 1 kip-ft
50 mph WIND - 1.000 in ICE

AXIAL 66 K

SHEAR 37 K *MOMENT 3971 kip-ft*

TORQUE 2 kip-ft
REACTIONS - 122 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-60	60 ksi	75 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 122 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING:81.3%

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Phone: (918) 587-4630
FAX: (918) 295-0265

Job: 137117.005.01 - SECONDINO PROPERTY, CT (BU# 87631		
Project:		
Client: Crown Castle	Drawn by: Regan	App'd:
Code: TIA-222-H	Date: 03/27/22	Scale: NTS
Path:		Dwg No. E-1

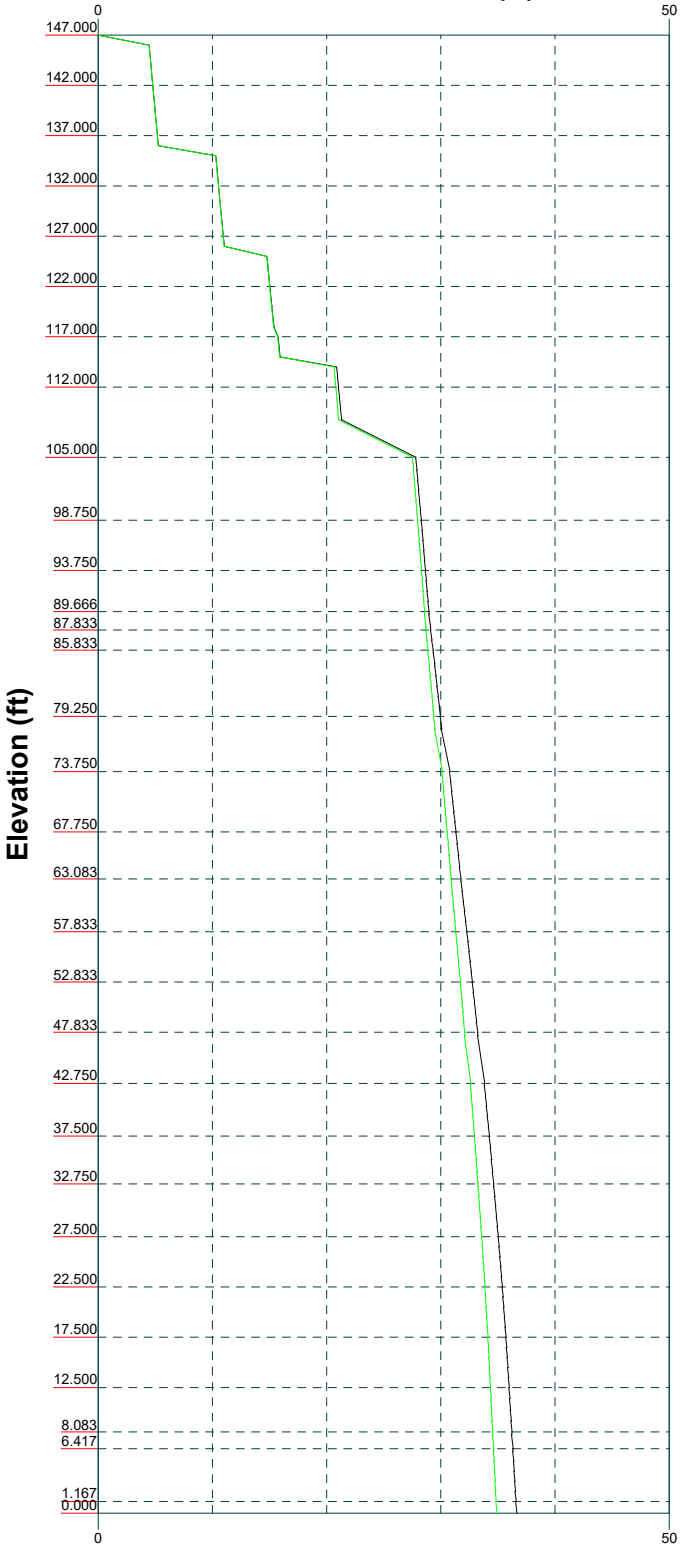
TIA-222-H - 122 mph/50 mph 1.000 in Ice Exposure C

Vx Vz

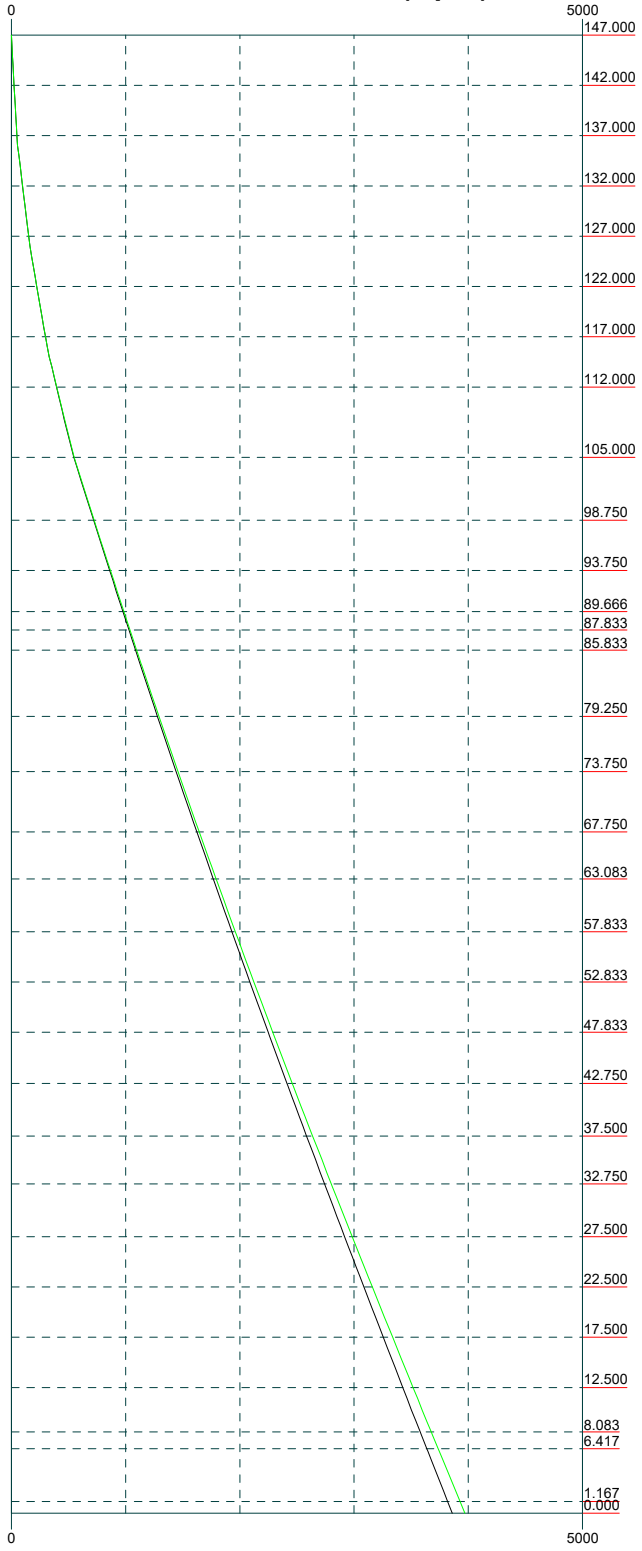
Maximum Values

Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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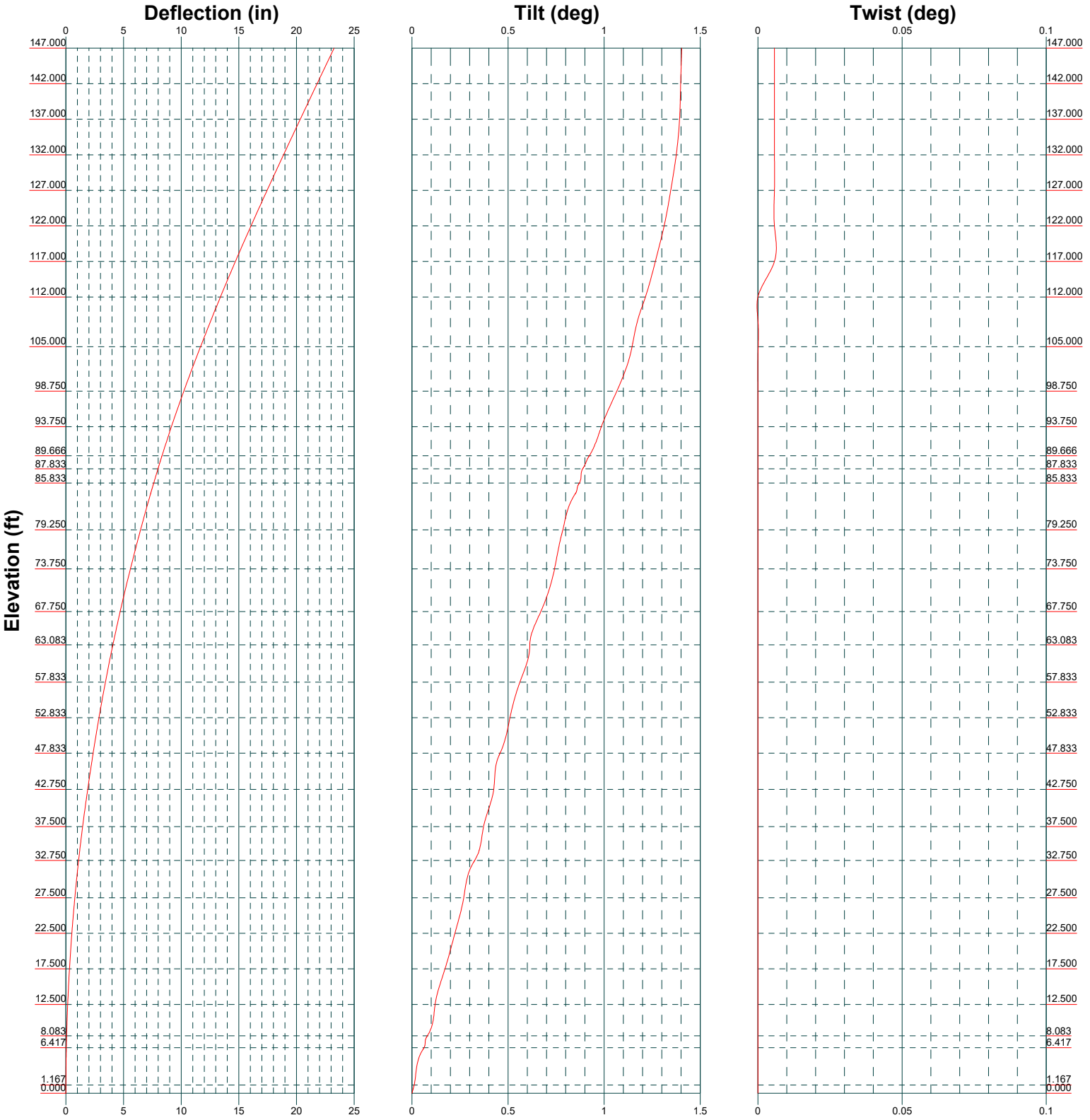
Job: 137117.005.01 - SECONDINO PROPERTY, CT (BU# 87631		
Project:		
Client: Crown Castle	Drawn by: Regan	App'd:
Code: TIA-222-H	Date: 03/27/22	Scale: NTS
Path:		Dwg No. E-4

TIA-222-H - Service - 60 mph

Maximum Values



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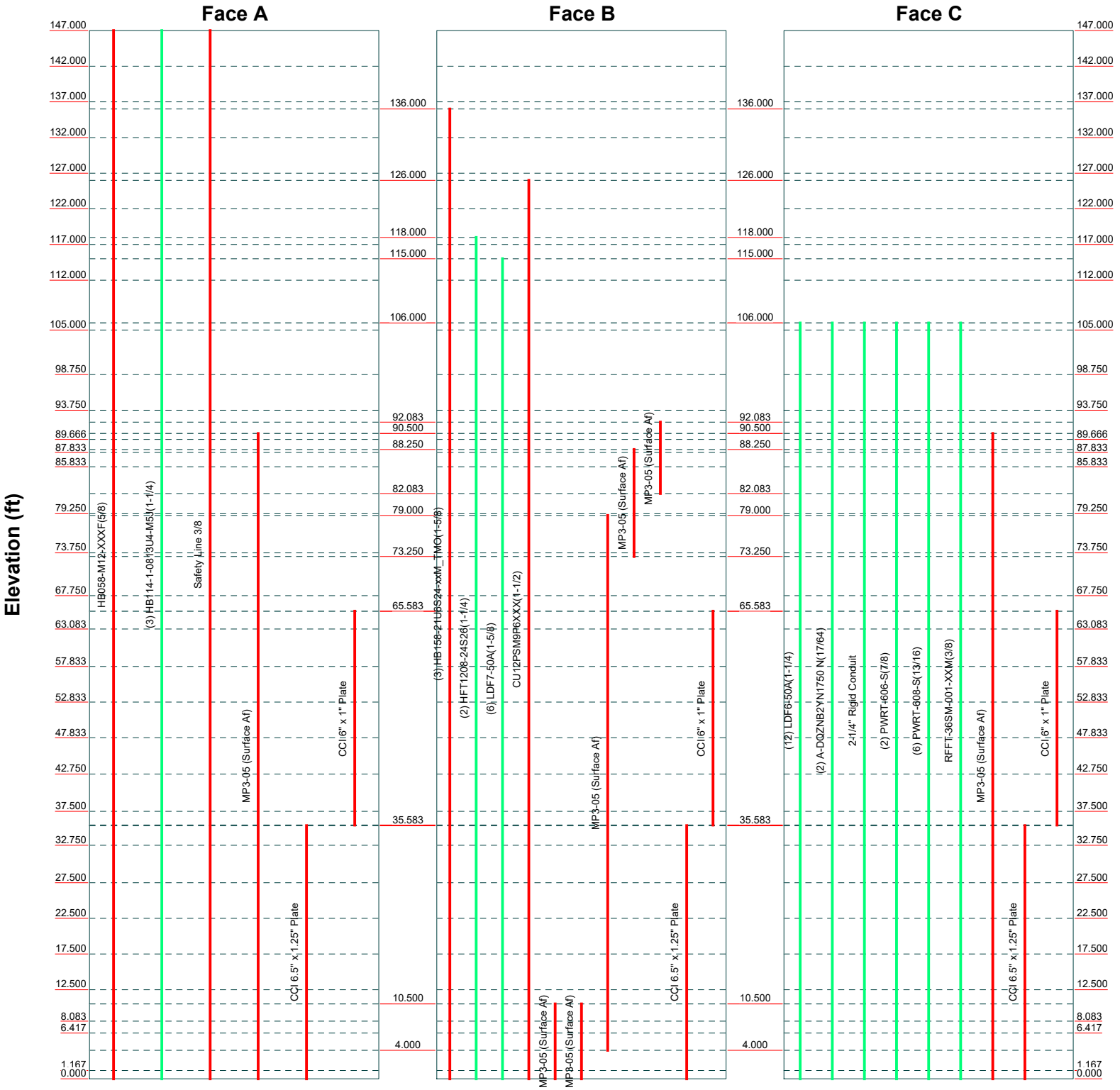
Job: *137117.005.01 - SECONDINO PROPERTY, CT (BU# 87631*			
Project:			
Client: Crown Castle	Drawn by: Regan	App'd:	
Code: TIA-222-H	Date: 03/27/22	Scale: NTS	
Path:		Dwg No. E-5	

Feed Line Distribution Chart
0' - 147'

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



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Job: *137117.005.01 - SECONDINO PROPERTY, CT (BU# 87631*			
Project:			
Client: Crown Castle	Drawn by: Regan	App'd:	
Code: TIA-222-H	Date: 03/27/22	Scale: NTS	
Path:		Dwg No. E-7	

Tower Input Data

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

Tower is located in New Haven County, Connecticut.
Tower base elevation above sea level: 115.000 ft.
Basic wind speed of 122 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.000 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	147.000-142.000	5.000	0.000	18	22.000	22.850	0.250	1.000	A607-60 (60 ksi)
L2	142.000-137.000	5.000	0.000	18	22.850	23.700	0.250	1.000	A607-60 (60 ksi)
L3	137.000-132.000	5.000	0.000	18	23.700	24.550	0.250	1.000	A607-60 (60 ksi)
L4	132.000-127.000	5.000	0.000	18	24.550	25.400	0.250	1.000	A607-60 (60 ksi)
L5	127.000-122.000	5.000	0.000	18	25.400	26.251	0.250	1.000	A607-60 (60 ksi)
L6	122.000-117.000	5.000	0.000	18	26.251	27.101	0.250	1.000	A607-60 (60 ksi)
L7	117.000-112.000	5.000	0.000	18	27.101	27.951	0.250	1.000	A607-60 (60 ksi)
L8	112.000-105.000	7.000	3.750	18	27.951	29.141	0.250	1.000	A607-60 (60 ksi)
L9	105.000-103.750	5.000	0.000	18	28.003	28.854	0.313	1.250	A607-60 (60 ksi)
L10	103.750-98.750	5.000	0.000	18	28.854	29.704	0.313	1.250	A607-60 (60 ksi)
L11	98.750-93.750	5.000	0.000	18	29.704	30.554	0.313	1.250	A607-60 (60 ksi)
L12	93.750-89.666	4.084	0.000	18	30.554	31.249	0.313	1.250	A607-60 (60 ksi)
L13	89.666-89.416	0.250	0.000	18	31.249	31.291	0.313	1.250	A607-60 (60 ksi)
L14	89.416-88.083	1.333	0.000	18	31.291	31.518	0.313	1.250	A607-60 (60 ksi)
L15	88.083-87.833	0.250	0.000	18	31.518	31.560	0.512	2.050	A607-60 (60 ksi)
L16	87.833-85.833	2.000	0.000	18	31.560	31.900	0.512	2.050	A607-60 (60 ksi)
L17	85.833-85.583	0.250	0.000	18	31.900	31.943	0.512	2.050	A607-60 (60 ksi)
L18	85.583-84.500	1.083	0.000	18	31.943	32.127	0.512	2.050	A607-60 (60 ksi)
L19	84.500-84.250	0.250	0.000	18	32.127	32.170	0.475	1.900	A607-60 (60 ksi)
L20	84.250-79.250	5.000	0.000	18	32.170	33.020	0.463	1.850	A607-60 (60 ksi)
L21	79.250-73.750	5.500	4.250	18	33.020	33.955	0.463	1.850	A607-60 (60 ksi)
L22	73.750-72.750	5.250	0.000	18	32.607	33.500	0.563	2.250	A607-60 (60 ksi)
L23	72.750-67.750	5.000	0.000	18	33.500	34.350	0.563	2.250	A607-60 (60 ksi)
L24	67.750-63.083	4.667	0.000	18	34.350	35.144	0.550	2.200	A607-60 (60 ksi)
L25	63.083-62.833	0.250	0.000	18	35.144	35.186	0.713	2.850	A607-60 (60 ksi)
L26	62.833-57.833	5.000	0.000	18	35.186	36.036	0.700	2.800	A607-60 (60 ksi)
L27	57.833-52.833	5.000	0.000	18	36.036	36.887	0.688	2.750	A607-60 (60 ksi)
L28	52.833-47.833	5.000	0.000	18	36.887	37.737	0.688	2.750	A607-60 (60 ksi)
L29	47.833-42.750	5.083	4.750	18	37.737	38.601	0.675	2.700	A607-60 (60 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L30	42.750-42.500	5.000	0.000	18	37.043	37.894	0.750	3.000	A607-60 (60 ksi)
L31	42.500-37.500	5.000	0.000	18	37.894	38.744	0.738	2.950	A607-60 (60 ksi)
L32	37.500-32.750	4.750	0.000	18	38.744	39.551	0.738	2.950	A607-60 (60 ksi)
L33	32.750-32.500	0.250	0.000	18	39.551	39.594	0.787	3.150	A607-60 (60 ksi)
L34	32.500-27.500	5.000	0.000	18	39.594	40.444	0.775	3.100	A607-60 (60 ksi)
L35	27.500-22.500	5.000	0.000	18	40.444	41.294	0.762	3.050	A607-60 (60 ksi)
L36	22.500-17.500	5.000	0.000	18	41.294	42.144	0.762	3.050	A607-60 (60 ksi)
L37	17.500-12.500	5.000	0.000	18	42.144	42.995	0.750	3.000	A607-60 (60 ksi)
L38	12.500-8.083	4.417	0.000	18	42.995	43.746	0.738	2.950	A607-60 (60 ksi)
L39	8.083-7.833	0.250	0.000	18	43.746	43.788	0.800	3.200	A607-60 (60 ksi)
L40	7.833-6.417	1.416	0.000	18	43.788	44.029	0.787	3.150	A607-60 (60 ksi)
L41	6.417-6.167	0.250	0.000	18	44.029	44.071	0.775	3.100	A607-60 (60 ksi)
L42	6.167-1.167	5.000	0.000	18	44.071	44.922	0.762	3.050	A607-60 (60 ksi)
L43	1.167-0.000	1.167		18	44.922	45.120	0.762	3.050	A607-60 (60 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	22.301	17.259	1031.483	7.721	11.176	92.294	2064.324	8.631	3.432	13.728
	23.164	17.933	1157.222	8.023	11.608	99.693	2315.966	8.968	3.582	14.326
L2	23.164	17.933	1157.222	8.023	11.608	99.693	2315.966	8.968	3.582	14.326
	24.027	18.608	1292.785	8.325	12.040	107.377	2587.270	9.306	3.731	14.925
L3	24.027	18.608	1292.785	8.325	12.040	107.377	2587.270	9.306	3.731	14.925
	24.891	19.282	1438.541	8.627	12.472	115.346	2878.976	9.643	3.881	15.523
L4	24.891	19.282	1438.541	8.627	12.472	115.346	2878.976	9.643	3.881	15.523
	25.754	19.957	1594.862	8.928	12.903	123.600	3191.822	9.980	4.030	16.122
L5	25.754	19.957	1594.862	8.928	12.903	123.600	3191.822	9.980	4.030	16.122
	26.617	20.631	1762.115	9.230	13.335	132.139	3526.549	10.318	4.180	16.72
L6	26.617	20.631	1762.115	9.230	13.335	132.139	3526.549	10.318	4.180	16.72
	27.480	21.306	1940.671	9.532	13.767	140.964	3883.896	10.655	4.330	17.319
L7	27.480	21.306	1940.671	9.532	13.767	140.964	3883.896	10.655	4.330	17.319
	28.343	21.981	2130.899	9.834	14.199	150.074	4264.602	10.992	4.479	17.917
L8	28.343	21.981	2130.899	9.834	14.199	150.074	4264.602	10.992	4.479	17.917
	29.552	22.925	2417.531	10.256	14.804	163.307	4838.244	11.465	4.689	18.755
L9	29.035	27.466	2660.763	9.830	14.226	187.039	5325.026	13.736	4.379	14.012
	29.251	28.309	2913.454	10.132	14.658	198.767	5830.743	14.157	4.528	14.49
L10	29.251	28.309	2913.454	10.132	14.658	198.767	5830.743	14.157	4.528	14.49
	30.114	29.153	3181.659	10.434	15.090	210.852	6367.505	14.579	4.678	14.969
L11	30.114	29.153	3181.659	10.434	15.090	210.852	6367.505	14.579	4.678	14.969
	30.977	29.996	3465.839	10.736	15.521	223.293	6936.238	15.001	4.828	15.448
L12	30.977	29.996	3465.839	10.736	15.521	223.293	6936.238	15.001	4.828	15.448

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
	31.682	30.685	3710.131	10.982	15.874	233.720	7425.145	15.345	4.950	15.839
L13	31.682	30.685	3710.131	10.982	15.874	233.720	7425.145	15.345	4.950	15.839
	31.726	30.727	3725.447	10.997	15.896	234.366	7455.797	15.366	4.957	15.863
L14	31.726	30.727	3725.447	10.997	15.896	234.366	7455.797	15.366	4.957	15.863
	31.956	30.952	3807.825	11.078	16.011	237.825	7620.660	15.479	4.997	15.991
L15	31.925	50.435	6125.528	11.007	16.011	382.582	12259.115	25.223	4.645	9.064
	31.968	50.505	6150.758	11.022	16.033	383.641	12309.610	25.257	4.653	9.078
L16	31.968	50.505	6150.758	11.022	16.033	383.641	12309.610	25.257	4.653	9.078
	32.313	51.058	6355.103	11.143	16.205	392.160	12718.568	25.534	4.712	9.195
L17	32.313	51.058	6355.103	11.143	16.205	392.160	12718.568	25.534	4.712	9.195
	32.357	51.127	6380.960	11.158	16.227	393.232	12770.316	25.568	4.720	9.21
L18	32.357	51.127	6380.960	11.158	16.227	393.232	12770.316	25.568	4.720	9.21
	32.544	51.427	6493.782	11.223	16.321	397.891	12996.108	25.718	4.752	9.273
L19	32.549	47.720	6040.070	11.236	16.321	370.090	12088.087	23.865	4.818	10.144
	32.593	47.784	6064.439	11.252	16.342	371.093	12136.858	23.897	4.826	10.16
L20	32.594	46.545	5911.838	11.256	16.342	361.755	11831.455	23.277	4.848	10.482
	33.458	47.793	6400.284	11.558	16.774	381.559	12808.990	23.901	4.997	10.805
L21	33.458	47.793	6400.284	11.558	16.774	381.559	12808.990	23.901	4.997	10.805
	34.407	49.166	6967.850	11.890	17.249	403.953	13944.869	24.588	5.162	11.161
L22	33.757	57.212	7422.324	11.376	16.565	448.086	14854.414	28.611	4.749	8.442
	33.930	58.806	8060.058	11.693	17.018	473.620	16130.723	29.408	4.906	8.722
L23	33.930	58.806	8060.058	11.693	17.018	473.620	16130.723	29.408	4.906	8.722
	34.793	60.324	8700.436	11.995	17.450	498.596	17412.320	30.168	5.056	8.988
L24	34.795	59.005	8516.538	11.999	17.450	488.057	17044.283	29.508	5.078	9.232
	35.601	60.390	9130.576	12.281	17.853	511.431	18273.166	30.201	5.217	9.486
L25	35.576	77.865	11662.342	12.223	17.853	653.243	23340.030	38.940	4.931	6.921
	35.619	77.961	11705.590	12.238	17.875	654.873	23426.583	38.988	4.939	6.932
L26	35.621	76.621	11512.744	12.243	17.875	644.084	23040.636	38.318	4.961	7.087
	36.484	78.510	12385.358	12.544	18.306	676.556	24787.013	39.263	5.110	7.301
L27	36.486	77.136	12177.104	12.549	18.306	665.180	24370.232	38.575	5.132	7.465
	37.350	78.991	13077.013	12.851	18.738	697.874	26171.233	39.503	5.282	7.683
L28	37.350	78.991	13077.013	12.851	18.738	697.874	26171.233	39.503	5.282	7.683
	38.213	80.846	14020.200	13.152	19.170	731.352	28058.848	40.431	5.432	7.901
L29	38.215	79.403	13779.225	13.157	19.170	718.782	27576.581	39.709	5.454	8.079
	39.092	81.255	14765.878	13.464	19.609	753.004	29551.185	40.635	5.606	8.305
L30	38.319	86.396	14377.601	12.884	18.818	764.034	28774.120	43.206	5.200	6.933
	38.362	88.420	15411.844	13.186	19.250	800.619	30843.967	44.218	5.349	7.132
L31	38.364	86.976	15170.285	13.190	19.250	788.071	30360.532	43.496	5.371	7.283
	39.228	88.966	16235.638	13.492	19.682	824.906	32492.640	44.491	5.521	7.486
L32	39.228	88.966	16235.638	13.492	19.682	824.906	32492.640	44.491	5.521	7.486
	40.048	90.856	17292.856	13.779	20.092	860.680	34608.467	45.437	5.663	7.679
L33	40.040	96.891	18393.984	13.761	20.092	915.484	36812.172	48.455	5.575	7.079
	40.083	96.997	18454.564	13.776	20.114	917.513	36933.411	48.508	5.583	7.089
L34	40.085	95.489	18179.190	13.781	20.114	903.822	36382.301	47.753	5.605	7.232
	40.948	97.580	19399.972	14.083	20.546	944.241	38825.471	48.799	5.754	7.425
L35	40.950	96.036	19105.118	14.087	20.546	929.890	38235.375	48.027	5.776	7.575
	41.814	98.094	20359.594	14.389	20.977	970.546	40745.977	49.056	5.926	7.772
L36	41.814	98.094	20359.594	14.389	20.977	970.546	40745.977	49.056	5.926	7.772
	42.677	100.151	21667.815	14.691	21.409	1012.073	43364.142	50.085	6.075	7.968
L37	42.679	98.539	21331.925	14.695	21.409	996.384	42691.918	49.279	6.097	8.13
	43.542	100.563	22673.476	14.997	21.841	1038.104	45376.786	50.291	6.247	8.329
L38	43.544	98.916	22315.382	15.001	21.841	1021.709	44660.127	49.468	6.269	8.5
	44.307	100.674	23526.504	15.268	22.223	1058.667	47083.964	50.347	6.401	8.68
L39	44.297	109.047	25409.178	15.246	22.223	1143.385	50851.789	54.534	6.291	7.864
	44.340	109.155	25484.704	15.261	22.244	1145.670	51002.942	54.588	6.299	7.873
L40	44.342	107.481	25108.396	15.265	22.244	1128.753	50249.830	53.751	6.321	8.026
	44.587	108.083	25532.524	15.351	22.367	1141.543	51098.644	54.052	6.363	8.08
L41	44.589	106.398	25149.043	15.355	22.367	1124.398	50331.177	53.209	6.385	8.239
	44.632	106.503	25223.263	15.370	22.388	1126.629	50479.715	53.261	6.393	8.248
L42	44.634	104.815	24837.936	15.375	22.388	1109.417	49708.555	52.418	6.415	8.413
	45.497	106.873	26329.581	15.676	22.820	1153.786	52693.808	53.446	6.564	8.609
L43	45.497	106.873	26329.581	15.676	22.820	1153.786	52693.808	53.446	6.564	8.609

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
	45.698	107.353	26686.118	15.747	22.921	1164.267	53407.351	53.687	6.599	8.655

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 147.000-142.000				1	1	1			
L2 142.000-137.000				1	1	1			
L3 137.000-132.000				1	1	1			
L4 132.000-127.000				1	1	1			
L5 127.000-122.000				1	1	1			
L6 122.000-117.000				1	1	1			
L7 117.000-112.000				1	1	1			
L8 112.000-105.000				1	1	1			
L9 105.000-103.750				1	1	1			
L10 103.750-98.750				1	1	1			
L11 98.750-93.750				1	1	1			
L12 93.750-89.666				1	1	1			
L13 89.666-89.416				1	1	1			
L14 89.416-88.083				1	1	1			
L15 88.083-87.833				1	1	0.949309			
L16 87.833-85.833				1	1	0.94563			
L17 85.833-85.583				1	1	0.945176			
L18 85.583-84.500				1	1	0.943222			
L19 84.500-84.250				1	1	1.016			
L20 84.250-79.250				1	1	1.03345			
L21 79.250-73.750				1	1	1.03113			
L22 73.750-72.750				1	1	0.958709			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L23 72.750-67.750				1	1	0.951361			
L24 67.750-63.083				1	1	0.965952			
L25 63.083-62.833				1	1	0.979783			
L26 62.833-57.833				1	1	0.985822			
L27 57.833-52.833				1	1	0.992636			
L28 52.833-47.833				1	1	0.982374			
L29 47.833-42.750				1	1	0.99955			
L30 42.750-42.500				1	1	0.983527			
L31 42.500-37.500				1	1	0.990764			
L32 37.500-32.750				1	1	0.982492			
L33 32.750-32.500				1	1	0.986624			
L34 32.500-27.500				1	1	0.992833			
L35 27.500-22.500				1	1	0.999667			
L36 22.500-17.500				1	1	0.990917			
L37 17.500-12.500				1	1	0.998599			
L38 12.500-8.083				1	1	1.00785			
L39 8.083-7.833				1	1	1.03361			
L40 7.833-6.417				1	1	1.04696			
L41 6.417-6.167				1	1	1.01			
L42 6.167-1.167				1	1	1.01755			
L43 1.167-0.000				1	1	1.01557			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
HB058-M12-XXXF(5/8) *	A	No	Surface Ar (CaAa)	147.000 - 0.000	1	1	-0.120 -0.100	0.840		0.000
HB158-21U6S24-xxM_TMO(1-5/8) *	B	No	Surface Ar (CaAa)	136.000 - 0.000	3	3	-0.400 -0.300	1.996		0.003

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	126.000 - 0.000	1	1	-0.500 -0.470	1.600		0.002
Safety Line 3/8	A	No	Surface Ar (CaAa)	147.000 - 0.000	1	1	0.490 0.500	0.375		0.000
MP3-05 (Surface Af)	B	No	Surface Af (CaAa)	10.500 - 0.000	1	1	0.000 0.050	5.330	14.840	0.000
MP3-05 (Surface Af)	B	No	Surface Af (CaAa)	10.500 - 0.000	1	1	0.150 0.200	5.330	14.840	0.000
MP3-05 (Surface Af)	B	No	Surface Af (CaAa)	79.000 - 4.000	1	1	0.050 0.100	5.330	14.840	0.000
MP3-05 (Surface Af)	A	No	Surface Af (CaAa)	90.500 - 0.000	1	1	0.050 0.100	5.330	14.840	0.000
MP3-05 (Surface Af)	C	No	Surface Af (CaAa)	90.500 - 0.000	1	1	0.050 0.100	5.330	14.840	0.000
MP3-05 (Surface Af)	B	No	Surface Af (CaAa)	88.250 - 73.250	1	1	0.000 0.050	5.330	14.840	0.000
MP3-05 (Surface Af)	B	No	Surface Af (CaAa)	92.083 - 82.083	1	1	0.050 0.100	5.330	14.840	0.000
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	35.500 - 0.000	1	1	-0.200 -0.150	6.500	15.500	0.000
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	35.500 - 0.000	1	1	-0.400 -0.350	6.500	15.500	0.000
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	35.500 - 0.000	1	1	-0.400 -0.350	6.500	15.500	0.000
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	65.583 - 35.583	1	1	-0.200 -0.150	6.000	14.000	0.000
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	65.583 - 35.583	1	1	-0.400 -0.350	6.000	14.000	0.000
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	65.583 - 35.583	1	1	-0.400 -0.350	6.000	14.000	0.000

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
HB114-1-0813U4-M5J(1-1/4)	A	No	No	Inside Pole	147.000 - 0.000	3	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
HFT1208-24S26(1-1/4)	B	No	No	Inside Pole	118.000 - 0.000	2	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001
LDF7-50A(1-5/8)	B	No	No	Inside Pole	115.000 - 0.000	6	No Ice 1/2" Ice 1" Ice	0.000 0.000 0.000	0.001 0.001 0.001

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
LDF6-50A(1-1/4)	C	No	No	Inside Pole	106.000 - 0.000	12	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
A-DQZNB2YN1750N(17/64)	C	No	No	Inside Pole	106.000 - 0.000	2	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
2-1/4" Rigid Conduit	C	No	No	Inside Pole	106.000 - 0.000	1	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
PWRT-606-S(7/8)	C	No	No	Inside Pole	106.000 - 0.000	2	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
PWRT-608-S(13/16)	C	No	No	Inside Pole	106.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
RFFT-36SM-001-XXM(3/8)	C	No	No	Inside Pole	106.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
*							1" Ice	0.000	0.000

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	147.000-142.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.000
L2	142.000-137.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.000
L3	137.000-132.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	2.395	0.000	0.030
		C	0.000	0.000	0.000	0.000	0.000
L4	132.000-127.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	2.994	0.000	0.037
		C	0.000	0.000	0.000	0.000	0.000
L5	127.000-122.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	3.634	0.000	0.047
		C	0.000	0.000	0.000	0.000	0.000
L6	122.000-117.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	3.794	0.000	0.052
		C	0.000	0.000	0.000	0.000	0.000
L7	117.000-112.000	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	3.794	0.000	0.076
		C	0.000	0.000	0.000	0.000	0.000
L8	112.000-105.000	A	0.000	0.000	0.850	0.000	0.028
		B	0.000	0.000	5.312	0.000	0.120
		C	0.000	0.000	0.000	0.000	0.016
L9	105.000-103.750	A	0.000	0.000	0.152	0.000	0.005
		B	0.000	0.000	0.949	0.000	0.021
		C	0.000	0.000	0.000	0.000	0.020
L10	103.750-98.750	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	3.794	0.000	0.086

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C	0.000	0.000	0.000	0.000	0.079
L11	98.750-93.750	A	0.000	0.000	0.608	0.000	0.020
		B	0.000	0.000	3.794	0.000	0.086
		C	0.000	0.000	0.000	0.000	0.079
L12	93.750-89.666	A	0.000	0.000	1.237	0.000	0.017
		B	0.000	0.000	5.101	0.000	0.070
		C	0.000	0.000	0.741	0.000	0.065
L13	89.666-89.416	A	0.000	0.000	0.252	0.000	0.001
		B	0.000	0.000	0.397	0.000	0.004
		C	0.000	0.000	0.222	0.000	0.004
L14	89.416-88.083	A	0.000	0.000	1.346	0.000	0.005
		B	0.000	0.000	2.264	0.000	0.023
		C	0.000	0.000	1.184	0.000	0.021
L15	88.083-87.833	A	0.000	0.000	0.252	0.000	0.001
		B	0.000	0.000	0.619	0.000	0.004
		C	0.000	0.000	0.222	0.000	0.004
L16	87.833-85.833	A	0.000	0.000	2.020	0.000	0.008
		B	0.000	0.000	4.951	0.000	0.034
		C	0.000	0.000	1.777	0.000	0.032
L17	85.833-85.583	A	0.000	0.000	0.252	0.000	0.001
		B	0.000	0.000	0.619	0.000	0.004
		C	0.000	0.000	0.222	0.000	0.004
L18	85.583-84.500	A	0.000	0.000	1.094	0.000	0.004
		B	0.000	0.000	2.681	0.000	0.019
		C	0.000	0.000	0.962	0.000	0.017
L19	84.500-84.250	A	0.000	0.000	0.252	0.000	0.001
		B	0.000	0.000	0.619	0.000	0.004
		C	0.000	0.000	0.222	0.000	0.004
L20	84.250-79.250	A	0.000	0.000	5.049	0.000	0.020
		B	0.000	0.000	10.031	0.000	0.086
		C	0.000	0.000	4.442	0.000	0.079
L21	79.250-73.750	A	0.000	0.000	5.554	0.000	0.022
		B	0.000	0.000	13.723	0.000	0.094
		C	0.000	0.000	4.886	0.000	0.087
L22	73.750-72.750	A	0.000	0.000	1.010	0.000	0.004
		B	0.000	0.000	2.091	0.000	0.017
		C	0.000	0.000	0.888	0.000	0.016
L23	72.750-67.750	A	0.000	0.000	5.049	0.000	0.020
		B	0.000	0.000	8.236	0.000	0.086
		C	0.000	0.000	4.442	0.000	0.079
L24	67.750-63.083	A	0.000	0.000	7.213	0.000	0.019
		B	0.000	0.000	10.187	0.000	0.080
		C	0.000	0.000	6.646	0.000	0.074
L25	63.083-62.833	A	0.000	0.000	0.502	0.000	0.001
		B	0.000	0.000	0.662	0.000	0.004
		C	0.000	0.000	0.472	0.000	0.004
L26	62.833-57.833	A	0.000	0.000	10.049	0.000	0.020
		B	0.000	0.000	13.236	0.000	0.086
		C	0.000	0.000	9.442	0.000	0.079
L27	57.833-52.833	A	0.000	0.000	10.049	0.000	0.020
		B	0.000	0.000	13.236	0.000	0.086
		C	0.000	0.000	9.442	0.000	0.079
L28	52.833-47.833	A	0.000	0.000	10.049	0.000	0.020
		B	0.000	0.000	13.236	0.000	0.086
		C	0.000	0.000	9.442	0.000	0.079
L29	47.833-42.750	A	0.000	0.000	10.216	0.000	0.021
		B	0.000	0.000	13.455	0.000	0.087
		C	0.000	0.000	9.598	0.000	0.081
L30	42.750-42.500	A	0.000	0.000	0.502	0.000	0.001
		B	0.000	0.000	0.662	0.000	0.004
		C	0.000	0.000	0.472	0.000	0.004

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L31	42.500-37.500	A	0.000	0.000	10.049	0.000	0.020
		B	0.000	0.000	13.236	0.000	0.086
		C	0.000	0.000	9.442	0.000	0.079
L32	37.500-32.750	A	0.000	0.000	9.693	0.000	0.019
		B	0.000	0.000	12.720	0.000	0.081
		C	0.000	0.000	9.116	0.000	0.075
L33	32.750-32.500	A	0.000	0.000	0.523	0.000	0.001
		B	0.000	0.000	0.683	0.000	0.004
		C	0.000	0.000	0.493	0.000	0.004
L34	32.500-27.500	A	0.000	0.000	10.466	0.000	0.020
		B	0.000	0.000	13.652	0.000	0.086
		C	0.000	0.000	9.858	0.000	0.079
L35	27.500-22.500	A	0.000	0.000	10.466	0.000	0.020
		B	0.000	0.000	13.652	0.000	0.086
		C	0.000	0.000	9.858	0.000	0.079
L36	22.500-17.500	A	0.000	0.000	10.466	0.000	0.020
		B	0.000	0.000	13.652	0.000	0.086
		C	0.000	0.000	9.858	0.000	0.079
L37	17.500-12.500	A	0.000	0.000	10.466	0.000	0.020
		B	0.000	0.000	13.652	0.000	0.086
		C	0.000	0.000	9.858	0.000	0.079
L38	12.500-8.083	A	0.000	0.000	9.246	0.000	0.018
		B	0.000	0.000	16.141	0.000	0.076
		C	0.000	0.000	8.709	0.000	0.070
L39	8.083-7.833	A	0.000	0.000	0.523	0.000	0.001
		B	0.000	0.000	1.105	0.000	0.004
		C	0.000	0.000	0.493	0.000	0.004
L40	7.833-6.417	A	0.000	0.000	2.964	0.000	0.006
		B	0.000	0.000	6.257	0.000	0.024
		C	0.000	0.000	2.792	0.000	0.022
L41	6.417-6.167	A	0.000	0.000	0.523	0.000	0.001
		B	0.000	0.000	1.105	0.000	0.004
		C	0.000	0.000	0.493	0.000	0.004
L42	6.167-1.167	A	0.000	0.000	10.466	0.000	0.020
		B	0.000	0.000	19.576	0.000	0.086
		C	0.000	0.000	9.858	0.000	0.079
L43	1.167-0.000	A	0.000	0.000	2.443	0.000	0.005
		B	0.000	0.000	4.120	0.000	0.020
		C	0.000	0.000	2.301	0.000	0.018

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	147.000-142.000	A	0.985	0.000	0.000	2.578	0.000	0.039
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.000
L2	142.000-137.000	A	0.982	0.000	0.000	2.571	0.000	0.039
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.000
L3	137.000-132.000	A	0.978	0.000	0.000	2.564	0.000	0.039
		B		0.000	0.000	3.972	0.000	0.059
		C		0.000	0.000	0.000	0.000	0.000
L4	132.000-127.000	A	0.975	0.000	0.000	2.557	0.000	0.039
		B		0.000	0.000	4.961	0.000	0.074
		C		0.000	0.000	0.000	0.000	0.000
L5	127.000-122.000	A	0.971	0.000	0.000	2.549	0.000	0.039

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B		0.000	0.000	6.372	0.000	0.095
		C		0.000	0.000	0.000	0.000	0.000
L6	122.000-117.000	A	0.967	0.000	0.000	2.541	0.000	0.039
		B		0.000	0.000	6.718	0.000	0.103
		C		0.000	0.000	0.000	0.000	0.000
L7	117.000-112.000	A	0.963	0.000	0.000	2.533	0.000	0.039
		B		0.000	0.000	6.708	0.000	0.126
		C		0.000	0.000	0.000	0.000	0.000
L8	112.000-105.000	A	0.957	0.000	0.000	3.531	0.000	0.054
		B		0.000	0.000	9.375	0.000	0.190
		C		0.000	0.000	0.000	0.000	0.016
L9	105.000-103.750	A	0.954	0.000	0.000	0.631	0.000	0.010
		B		0.000	0.000	1.674	0.000	0.034
		C		0.000	0.000	0.000	0.000	0.020
L10	103.750-98.750	A	0.951	0.000	0.000	2.509	0.000	0.038
		B		0.000	0.000	6.682	0.000	0.136
		C		0.000	0.000	0.000	0.000	0.079
L11	98.750-93.750	A	0.946	0.000	0.000	2.500	0.000	0.038
		B		0.000	0.000	6.671	0.000	0.135
		C		0.000	0.000	0.000	0.000	0.079
L12	93.750-89.666	A	0.941	0.000	0.000	2.932	0.000	0.037
		B		0.000	0.000	7.694	0.000	0.127
		C		0.000	0.000	0.898	0.000	0.070
L13	89.666-89.416	A	0.939	0.000	0.000	0.393	0.000	0.004
		B		0.000	0.000	0.566	0.000	0.008
		C		0.000	0.000	0.269	0.000	0.006
L14	89.416-88.083	A	0.938	0.000	0.000	2.097	0.000	0.019
		B		0.000	0.000	3.195	0.000	0.046
		C		0.000	0.000	1.434	0.000	0.030
L15	88.083-87.833	A	0.938	0.000	0.000	0.393	0.000	0.004
		B		0.000	0.000	0.834	0.000	0.010
		C		0.000	0.000	0.269	0.000	0.006
L16	87.833-85.833	A	0.936	0.000	0.000	3.143	0.000	0.029
		B		0.000	0.000	6.667	0.000	0.081
		C		0.000	0.000	2.151	0.000	0.045
L17	85.833-85.583	A	0.935	0.000	0.000	0.393	0.000	0.004
		B		0.000	0.000	0.833	0.000	0.010
		C		0.000	0.000	0.269	0.000	0.006
L18	85.583-84.500	A	0.934	0.000	0.000	1.701	0.000	0.015
		B		0.000	0.000	3.609	0.000	0.044
		C		0.000	0.000	1.164	0.000	0.024
L19	84.500-84.250	A	0.934	0.000	0.000	0.393	0.000	0.004
		B		0.000	0.000	0.833	0.000	0.010
		C		0.000	0.000	0.269	0.000	0.006
L20	84.250-79.250	A	0.931	0.000	0.000	7.841	0.000	0.071
		B		0.000	0.000	14.009	0.000	0.182
		C		0.000	0.000	5.372	0.000	0.112
L21	79.250-73.750	A	0.925	0.000	0.000	8.605	0.000	0.078
		B		0.000	0.000	18.804	0.000	0.218
		C		0.000	0.000	5.903	0.000	0.123
L22	73.750-72.750	A	0.921	0.000	0.000	1.565	0.000	0.014
		B		0.000	0.000	2.933	0.000	0.037
		C		0.000	0.000	1.073	0.000	0.022
L23	72.750-67.750	A	0.917	0.000	0.000	7.799	0.000	0.070
		B		0.000	0.000	11.963	0.000	0.166
		C		0.000	0.000	5.358	0.000	0.112
L24	67.750-63.083	A	0.910	0.000	0.000	10.217	0.000	0.080
		B		0.000	0.000	14.102	0.000	0.170
		C		0.000	0.000	7.951	0.000	0.120
L25	63.083-62.833	A	0.907	0.000	0.000	0.684	0.000	0.005
		B		0.000	0.000	0.892	0.000	0.010

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	0.563	0.000	0.007
L26	62.833-57.833	A	0.903	0.000	0.000	13.661	0.000	0.100
		B		0.000	0.000	17.821	0.000	0.195
		C		0.000	0.000	11.247	0.000	0.142
L27	57.833-52.833	A	0.895	0.000	0.000	13.629	0.000	0.099
		B		0.000	0.000	17.788	0.000	0.194
		C		0.000	0.000	11.232	0.000	0.141
L28	52.833-47.833	A	0.887	0.000	0.000	13.596	0.000	0.098
		B		0.000	0.000	17.752	0.000	0.193
		C		0.000	0.000	11.215	0.000	0.141
L29	47.833-42.750	A	0.877	0.000	0.000	13.784	0.000	0.098
		B		0.000	0.000	18.007	0.000	0.195
		C		0.000	0.000	11.382	0.000	0.142
L30	42.750-42.500	A	0.872	0.000	0.000	0.678	0.000	0.005
		B		0.000	0.000	0.886	0.000	0.010
		C		0.000	0.000	0.560	0.000	0.007
L31	42.500-37.500	A	0.866	0.000	0.000	13.515	0.000	0.096
		B		0.000	0.000	17.667	0.000	0.190
		C		0.000	0.000	11.175	0.000	0.139
L32	37.500-32.750	A	0.855	0.000	0.000	12.929	0.000	0.091
		B		0.000	0.000	16.870	0.000	0.180
		C		0.000	0.000	10.727	0.000	0.132
L33	32.750-32.500	A	0.849	0.000	0.000	0.693	0.000	0.005
		B		0.000	0.000	0.900	0.000	0.010
		C		0.000	0.000	0.578	0.000	0.007
L34	32.500-27.500	A	0.842	0.000	0.000	13.833	0.000	0.095
		B		0.000	0.000	17.979	0.000	0.189
		C		0.000	0.000	11.542	0.000	0.139
L35	27.500-22.500	A	0.827	0.000	0.000	13.773	0.000	0.094
		B		0.000	0.000	17.914	0.000	0.187
		C		0.000	0.000	11.512	0.000	0.138
L36	22.500-17.500	A	0.808	0.000	0.000	13.700	0.000	0.092
		B		0.000	0.000	17.837	0.000	0.184
		C		0.000	0.000	11.475	0.000	0.137
L37	17.500-12.500	A	0.786	0.000	0.000	13.608	0.000	0.089
		B		0.000	0.000	17.739	0.000	0.181
		C		0.000	0.000	11.429	0.000	0.135
L38	12.500-8.083	A	0.756	0.000	0.000	11.919	0.000	0.076
		B		0.000	0.000	20.048	0.000	0.182
		C		0.000	0.000	10.045	0.000	0.117
L39	8.083-7.833	A	0.737	0.000	0.000	0.671	0.000	0.004
		B		0.000	0.000	1.340	0.000	0.011
		C		0.000	0.000	0.567	0.000	0.007
L40	7.833-6.417	A	0.729	0.000	0.000	3.790	0.000	0.024
		B		0.000	0.000	7.576	0.000	0.063
		C		0.000	0.000	3.205	0.000	0.037
L41	6.417-6.167	A	0.720	0.000	0.000	0.667	0.000	0.004
		B		0.000	0.000	1.335	0.000	0.011
		C		0.000	0.000	0.565	0.000	0.006
L42	6.167-1.167	A	0.682	0.000	0.000	13.195	0.000	0.078
		B		0.000	0.000	23.598	0.000	0.200
		C		0.000	0.000	11.223	0.000	0.126
L43	1.167-0.000	A	0.568	0.000	0.000	2.973	0.000	0.016
		B		0.000	0.000	4.874	0.000	0.040
		C		0.000	0.000	2.566	0.000	0.027

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	147.000-142.000	-0.625	-0.472	-1.058	-1.212
L2	142.000-137.000	-0.626	-0.473	-1.064	-1.219
L3	137.000-132.000	0.446	-3.223	-0.036	-3.169
L4	132.000-127.000	0.642	-3.746	0.139	-3.538
L5	127.000-122.000	0.636	-4.300	0.157	-4.149
L6	122.000-117.000	0.638	-4.461	0.164	-4.335
L7	117.000-112.000	0.643	-4.500	0.166	-4.389
L8	112.000-105.000	0.649	-4.546	0.169	-4.452
L9	105.000-103.750	0.650	-4.555	0.170	-4.466
L10	103.750-98.750	0.653	-4.578	0.173	-4.493
L11	98.750-93.750	0.658	-4.613	0.176	-4.541
L12	93.750-89.666	1.887	-3.874	0.966	-4.085
L13	89.666-89.416	0.163	-2.375	-0.154	-2.918
L14	89.416-88.083	0.468	-2.472	0.080	-2.985
L15	88.083-87.833	2.298	-3.026	1.533	-3.368
L16	87.833-85.833	2.306	-3.038	1.539	-3.380
L17	85.833-85.583	2.315	-3.050	1.545	-3.392
L18	85.583-84.500	2.320	-3.056	1.548	-3.399
L19	84.500-84.250	2.325	-3.063	1.552	-3.406
L20	84.250-79.250	1.169	-3.021	0.692	-3.404
L21	79.250-73.750	2.432	-3.145	1.742	-3.492
L22	73.750-72.750	1.515	-2.840	1.014	-3.278
L23	72.750-67.750	0.356	-2.508	0.124	-3.061
L24	67.750-63.083	-0.066	-3.016	-0.165	-3.372
L25	63.083-62.833	-0.309	-3.305	-0.349	-3.564
L26	62.833-57.833	-0.312	-3.335	-0.351	-3.592
L27	57.833-52.833	-0.318	-3.392	-0.356	-3.647
L28	52.833-47.833	-0.324	-3.448	-0.361	-3.699
L29	47.833-42.750	-0.330	-3.504	-0.366	-3.751
L30	42.750-42.500	-0.328	-3.485	-0.364	-3.732
L31	42.500-37.500	-0.331	-3.514	-0.365	-3.755
L32	37.500-32.750	-0.352	-3.588	-0.378	-3.815
L33	32.750-32.500	-0.379	-3.647	-0.398	-3.859
L34	32.500-27.500	-0.382	-3.676	-0.400	-3.884
L35	27.500-22.500	-0.389	-3.730	-0.403	-3.929
L36	22.500-17.500	-0.395	-3.784	-0.406	-3.971
L37	17.500-12.500	-0.401	-3.838	-0.408	-4.009
L38	12.500-8.083	1.610	-3.783	1.182	-3.946
L39	8.083-7.833	3.033	-3.733	2.348	-3.890
L40	7.833-6.417	3.040	-3.742	2.356	-3.894
L41	6.417-6.167	3.046	-3.751	2.364	-3.897
L42	6.167-1.167	2.131	-3.709	1.575	-3.846
L43	1.167-0.000	1.371	-3.683	0.965	-3.754

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	1	HB058-M12-XXXF(5/8)	142.00 - 147.00	1.0000	1.0000
L1	22	Safety Line 3/8	142.00 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			147.00		
L2	1	HB058-M12-XXXF(5/8)	137.00 - 142.00	1.0000	1.0000
L2	22	Safety Line 3/8	137.00 - 142.00	1.0000	1.0000
L3	1	HB058-M12-XXXF(5/8)	132.00 - 137.00	1.0000	1.0000
L3	4	HB158-21U6S24-xxM_TMO (1-5/8)	132.00 - 136.00	1.0000	1.0000
L3	22	Safety Line 3/8	132.00 - 137.00	1.0000	1.0000
L4	1	HB058-M12-XXXF(5/8)	127.00 - 132.00	1.0000	1.0000
L4	4	HB158-21U6S24-xxM_TMO (1-5/8)	127.00 - 132.00	1.0000	1.0000
L4	22	Safety Line 3/8	127.00 - 132.00	1.0000	1.0000
L5	1	HB058-M12-XXXF(5/8)	122.00 - 127.00	1.0000	1.0000
L5	4	HB158-21U6S24-xxM_TMO (1-5/8)	122.00 - 127.00	1.0000	1.0000
L5	10	CU12PSM9P6XXX(1-1/2)	122.00 - 126.00	1.0000	1.0000
L5	22	Safety Line 3/8	122.00 - 127.00	1.0000	1.0000
L6	1	HB058-M12-XXXF(5/8)	117.00 - 122.00	1.0000	1.0000
L6	4	HB158-21U6S24-xxM_TMO (1-5/8)	117.00 - 122.00	1.0000	1.0000
L6	10	CU12PSM9P6XXX(1-1/2)	117.00 - 122.00	1.0000	1.0000
L6	22	Safety Line 3/8	117.00 - 122.00	1.0000	1.0000
L7	1	HB058-M12-XXXF(5/8)	112.00 - 117.00	1.0000	1.0000
L7	4	HB158-21U6S24-xxM_TMO (1-5/8)	112.00 - 117.00	1.0000	1.0000
L7	10	CU12PSM9P6XXX(1-1/2)	112.00 - 117.00	1.0000	1.0000
L7	22	Safety Line 3/8	112.00 - 117.00	1.0000	1.0000
L8	1	HB058-M12-XXXF(5/8)	105.00 - 112.00	1.0000	1.0000
L8	4	HB158-21U6S24-xxM_TMO (1-5/8)	105.00 - 112.00	1.0000	1.0000
L8	10	CU12PSM9P6XXX(1-1/2)	105.00 - 112.00	1.0000	1.0000
L8	22	Safety Line 3/8	105.00 - 112.00	1.0000	1.0000
L9	1	HB058-M12-XXXF(5/8)	103.75 - 105.00	1.0000	1.0000
L9	4	HB158-21U6S24-xxM_TMO (1-5/8)	103.75 - 105.00	1.0000	1.0000
L9	10	CU12PSM9P6XXX(1-1/2)	103.75 - 105.00	1.0000	1.0000
L9	22	Safety Line 3/8	103.75 - 105.00	1.0000	1.0000
L10	1	HB058-M12-XXXF(5/8)	98.75 - 103.75	1.0000	1.0000
L10	4	HB158-21U6S24-xxM_TMO (1-5/8)	98.75 - 103.75	1.0000	1.0000
L10	10	CU12PSM9P6XXX(1-1/2)	98.75 - 103.75	1.0000	1.0000
L10	22	Safety Line 3/8	98.75 - 103.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L11	1	HB058-M12-XXXF(5/8)	93.75 - 98.75	1.0000	1.0000
L11	4	HB158-21U6S24-xxM_TMO (1-5/8)	93.75 - 98.75	1.0000	1.0000
L11	10	CU12PSM9P6XXX(1-1/2)	93.75 - 98.75	1.0000	1.0000
L11	22	Safety Line 3/8	93.75 - 98.75	1.0000	1.0000
L12	1	HB058-M12-XXXF(5/8)	89.67 - 93.75	1.0000	1.0000
L12	4	HB158-21U6S24-xxM_TMO (1-5/8)	89.67 - 93.75	1.0000	1.0000
L12	10	CU12PSM9P6XXX(1-1/2)	89.67 - 93.75	1.0000	1.0000
L12	22	Safety Line 3/8	89.67 - 93.75	1.0000	1.0000
L12	29	MP3-05 (Surface Af)	89.67 - 90.50	1.0000	1.0000
L12	30	MP3-05 (Surface Af)	89.67 - 90.50	1.0000	1.0000
L12	33	MP3-05 (Surface Af)	89.67 - 92.08	1.0000	1.0000
L13	1	HB058-M12-XXXF(5/8)	89.42 - 89.67	1.0000	1.0000
L13	4	HB158-21U6S24-xxM_TMO (1-5/8)	89.42 - 89.67	1.0000	1.0000
L13	10	CU12PSM9P6XXX(1-1/2)	89.42 - 89.67	1.0000	1.0000
L13	22	Safety Line 3/8	89.42 - 89.67	1.0000	1.0000
L13	29	MP3-05 (Surface Af)	89.42 - 89.67	1.0000	1.0000
L13	30	MP3-05 (Surface Af)	89.42 - 89.67	1.0000	1.0000
L13	33	MP3-05 (Surface Af)	89.42 - 89.67	1.0000	1.0000
L14	1	HB058-M12-XXXF(5/8)	88.08 - 89.42	1.0000	1.0000
L14	4	HB158-21U6S24-xxM_TMO (1-5/8)	88.08 - 89.42	1.0000	1.0000
L14	10	CU12PSM9P6XXX(1-1/2)	88.08 - 89.42	1.0000	1.0000
L14	22	Safety Line 3/8	88.08 - 89.42	1.0000	1.0000
L14	29	MP3-05 (Surface Af)	88.08 - 89.42	1.0000	1.0000
L14	30	MP3-05 (Surface Af)	88.08 - 89.42	1.0000	1.0000
L14	32	MP3-05 (Surface Af)	88.08 - 88.25	1.0000	1.0000
L14	33	MP3-05 (Surface Af)	88.08 - 89.42	1.0000	1.0000
L15	1	HB058-M12-XXXF(5/8)	87.83 - 88.08	1.0000	1.0000
L15	4	HB158-21U6S24-xxM_TMO (1-5/8)	87.83 - 88.08	1.0000	1.0000
L15	10	CU12PSM9P6XXX(1-1/2)	87.83 - 88.08	1.0000	1.0000
L15	22	Safety Line 3/8	87.83 - 88.08	1.0000	1.0000
L15	29	MP3-05 (Surface Af)	87.83 - 88.08	1.0000	1.0000
L15	30	MP3-05 (Surface Af)	87.83 - 88.08	1.0000	1.0000
L15	32	MP3-05 (Surface Af)	87.83 - 88.08	1.0000	1.0000
L15	33	MP3-05 (Surface Af)	87.83 - 88.08	1.0000	1.0000
L16	1	HB058-M12-XXXF(5/8)	85.83 - 87.83	1.0000	1.0000
L16	4	HB158-21U6S24-xxM_TMO (1-5/8)	85.83 - 87.83	1.0000	1.0000
L16	10	CU12PSM9P6XXX(1-1/2)	85.83 - 87.83	1.0000	1.0000
L16	22	Safety Line 3/8	85.83 - 87.83	1.0000	1.0000
L16	29	MP3-05 (Surface Af)	85.83 - 87.83	1.0000	1.0000
L16	30	MP3-05 (Surface Af)	85.83 - 87.83	1.0000	1.0000
L16	32	MP3-05 (Surface Af)	85.83 - 87.83	1.0000	1.0000
L16	33	MP3-05 (Surface Af)	85.83 - 87.83	1.0000	1.0000
L17	1	HB058-M12-XXXF(5/8)	85.58 - 85.83	1.0000	1.0000
L17	4	HB158-21U6S24-xxM_TMO (1-5/8)	85.58 - 85.83	1.0000	1.0000
L17	10	CU12PSM9P6XXX(1-1/2)	85.58 - 85.83	1.0000	1.0000
L17	22	Safety Line 3/8	85.58 - 85.83	1.0000	1.0000
L17	29	MP3-05 (Surface Af)	85.58 - 85.83	1.0000	1.0000
L17	30	MP3-05 (Surface Af)	85.58 - 85.83	1.0000	1.0000
L17	32	MP3-05 (Surface Af)	85.58 - 85.83	1.0000	1.0000
L17	33	MP3-05 (Surface Af)	85.58 - 85.83	1.0000	1.0000
L18	1	HB058-M12-XXXF(5/8)	84.50 - 85.58	1.0000	1.0000
L18	4	HB158-21U6S24-xxM_TMO (1-5/8)	84.50 - 85.58	1.0000	1.0000
L18	10	CU12PSM9P6XXX(1-1/2)	84.50 - 85.58	1.0000	1.0000
L18	22	Safety Line 3/8	84.50 - 85.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L18	29	MP3-05 (Surface Af)	84.50 - 85.58	1.0000	1.0000
L18	30	MP3-05 (Surface Af)	84.50 - 85.58	1.0000	1.0000
L18	32	MP3-05 (Surface Af)	84.50 - 85.58	1.0000	1.0000
L18	33	MP3-05 (Surface Af)	84.50 - 85.58	1.0000	1.0000
L19	1	HB058-M12-XXXF(5/8)	84.25 - 84.50	1.0000	1.0000
L19	4	HB158-21U6S24-xxM_TMO (1-5/8)	84.25 - 84.50	1.0000	1.0000
L19	10	CU12PSM9P6XXX(1-1/2)	84.25 - 84.50	1.0000	1.0000
L19	22	Safety Line 3/8	84.25 - 84.50	1.0000	1.0000
L19	29	MP3-05 (Surface Af)	84.25 - 84.50	1.0000	1.0000
L19	30	MP3-05 (Surface Af)	84.25 - 84.50	1.0000	1.0000
L19	32	MP3-05 (Surface Af)	84.25 - 84.50	1.0000	1.0000
L19	33	MP3-05 (Surface Af)	84.25 - 84.50	1.0000	1.0000
L20	1	HB058-M12-XXXF(5/8)	79.25 - 84.25	1.0000	1.0000
L20	4	HB158-21U6S24-xxM_TMO (1-5/8)	79.25 - 84.25	1.0000	1.0000
L20	10	CU12PSM9P6XXX(1-1/2)	79.25 - 84.25	1.0000	1.0000
L20	22	Safety Line 3/8	79.25 - 84.25	1.0000	1.0000
L20	29	MP3-05 (Surface Af)	79.25 - 84.25	1.0000	1.0000
L20	30	MP3-05 (Surface Af)	79.25 - 84.25	1.0000	1.0000
L20	32	MP3-05 (Surface Af)	79.25 - 84.25	1.0000	1.0000
L20	33	MP3-05 (Surface Af)	82.08 - 84.25	1.0000	1.0000
L21	1	HB058-M12-XXXF(5/8)	73.75 - 79.25	1.0000	1.0000
L21	4	HB158-21U6S24-xxM_TMO (1-5/8)	73.75 - 79.25	1.0000	1.0000
L21	10	CU12PSM9P6XXX(1-1/2)	73.75 - 79.25	1.0000	1.0000
L21	22	Safety Line 3/8	73.75 - 79.25	1.0000	1.0000
L21	27	MP3-05 (Surface Af)	73.75 - 79.00	1.0000	1.0000
L21	29	MP3-05 (Surface Af)	73.75 - 79.25	1.0000	1.0000
L21	30	MP3-05 (Surface Af)	73.75 - 79.25	1.0000	1.0000
L21	32	MP3-05 (Surface Af)	73.75 - 79.25	1.0000	1.0000
L22	1	HB058-M12-XXXF(5/8)	72.75 - 73.75	1.0000	1.0000
L22	4	HB158-21U6S24-xxM_TMO (1-5/8)	72.75 - 73.75	1.0000	1.0000
L22	10	CU12PSM9P6XXX(1-1/2)	72.75 - 73.75	1.0000	1.0000
L22	22	Safety Line 3/8	72.75 - 73.75	1.0000	1.0000
L22	27	MP3-05 (Surface Af)	72.75 - 73.75	1.0000	1.0000
L22	29	MP3-05 (Surface Af)	72.75 - 73.75	1.0000	1.0000
L22	30	MP3-05 (Surface Af)	72.75 - 73.75	1.0000	1.0000
L22	32	MP3-05 (Surface Af)	73.25 - 73.75	1.0000	1.0000
L23	1	HB058-M12-XXXF(5/8)	67.75 - 72.75	1.0000	1.0000
L23	4	HB158-21U6S24-xxM_TMO (1-5/8)	67.75 - 72.75	1.0000	1.0000
L23	10	CU12PSM9P6XXX(1-1/2)	67.75 - 72.75	1.0000	1.0000
L23	22	Safety Line 3/8	67.75 - 72.75	1.0000	1.0000
L23	27	MP3-05 (Surface Af)	67.75 - 72.75	1.0000	1.0000
L23	29	MP3-05 (Surface Af)	67.75 - 72.75	1.0000	1.0000
L23	30	MP3-05 (Surface Af)	67.75 - 72.75	1.0000	1.0000
L24	1	HB058-M12-XXXF(5/8)	63.08 - 67.75	1.0000	1.0000
L24	4	HB158-21U6S24-xxM_TMO (1-5/8)	63.08 - 67.75	1.0000	1.0000
L24	10	CU12PSM9P6XXX(1-1/2)	63.08 - 67.75	1.0000	1.0000
L24	22	Safety Line 3/8	63.08 - 67.75	1.0000	1.0000
L24	27	MP3-05 (Surface Af)	63.08 - 67.75	1.0000	1.0000
L24	29	MP3-05 (Surface Af)	63.08 - 67.75	1.0000	1.0000
L24	30	MP3-05 (Surface Af)	63.08 - 67.75	1.0000	1.0000
L24	39	CCI 6" x 1" Plate	63.08 - 65.58	1.0000	1.0000
L24	40	CCI 6" x 1" Plate	63.08 - 65.58	1.0000	1.0000
L24	41	CCI 6" x 1" Plate	63.08 - 65.58	1.0000	1.0000
L25	1	HB058-M12-XXXF(5/8)	62.83 - 63.08	1.0000	1.0000
L25	4	HB158-21U6S24-xxM_TMO (1-5/8)	62.83 - 63.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L25	10	CU12PSM9P6XXX(1-1/2)	62.83 - 63.08	1.0000	1.0000
L25	22	Safety Line 3/8	62.83 - 63.08	1.0000	1.0000
L25	27	MP3-05 (Surface Af)	62.83 - 63.08	1.0000	1.0000
L25	29	MP3-05 (Surface Af)	62.83 - 63.08	1.0000	1.0000
L25	30	MP3-05 (Surface Af)	62.83 - 63.08	1.0000	1.0000
L25	39	CCI 6" x 1" Plate	62.83 - 63.08	1.0000	1.0000
L25	40	CCI 6" x 1" Plate	62.83 - 63.08	1.0000	1.0000
L25	41	CCI 6" x 1" Plate	62.83 - 63.08	1.0000	1.0000
L26	1	HB058-M12-XXXF(5/8)	57.83 - 62.83	1.0000	1.0000
L26	4	HB158-21U6S24-xxM_TMO (1-5/8)	57.83 - 62.83	1.0000	1.0000
L26	10	CU12PSM9P6XXX(1-1/2)	57.83 - 62.83	1.0000	1.0000
L26	22	Safety Line 3/8	57.83 - 62.83	1.0000	1.0000
L26	27	MP3-05 (Surface Af)	57.83 - 62.83	1.0000	1.0000
L26	29	MP3-05 (Surface Af)	57.83 - 62.83	1.0000	1.0000
L26	30	MP3-05 (Surface Af)	57.83 - 62.83	1.0000	1.0000
L26	39	CCI 6" x 1" Plate	57.83 - 62.83	1.0000	1.0000
L26	40	CCI 6" x 1" Plate	57.83 - 62.83	1.0000	1.0000
L26	41	CCI 6" x 1" Plate	57.83 - 62.83	1.0000	1.0000
L27	1	HB058-M12-XXXF(5/8)	52.83 - 57.83	1.0000	1.0000
L27	4	HB158-21U6S24-xxM_TMO (1-5/8)	52.83 - 57.83	1.0000	1.0000
L27	10	CU12PSM9P6XXX(1-1/2)	52.83 - 57.83	1.0000	1.0000
L27	22	Safety Line 3/8	52.83 - 57.83	1.0000	1.0000
L27	27	MP3-05 (Surface Af)	52.83 - 57.83	1.0000	1.0000
L27	29	MP3-05 (Surface Af)	52.83 - 57.83	1.0000	1.0000
L27	30	MP3-05 (Surface Af)	52.83 - 57.83	1.0000	1.0000
L27	39	CCI 6" x 1" Plate	52.83 - 57.83	1.0000	1.0000
L27	40	CCI 6" x 1" Plate	52.83 - 57.83	1.0000	1.0000
L27	41	CCI 6" x 1" Plate	52.83 - 57.83	1.0000	1.0000
L28	1	HB058-M12-XXXF(5/8)	47.83 - 52.83	1.0000	1.0000
L28	4	HB158-21U6S24-xxM_TMO (1-5/8)	47.83 - 52.83	1.0000	1.0000
L28	10	CU12PSM9P6XXX(1-1/2)	47.83 - 52.83	1.0000	1.0000
L28	22	Safety Line 3/8	47.83 - 52.83	1.0000	1.0000
L28	27	MP3-05 (Surface Af)	47.83 - 52.83	1.0000	1.0000
L28	29	MP3-05 (Surface Af)	47.83 - 52.83	1.0000	1.0000
L28	30	MP3-05 (Surface Af)	47.83 - 52.83	1.0000	1.0000
L28	39	CCI 6" x 1" Plate	47.83 - 52.83	1.0000	1.0000
L28	40	CCI 6" x 1" Plate	47.83 - 52.83	1.0000	1.0000
L28	41	CCI 6" x 1" Plate	47.83 - 52.83	1.0000	1.0000
L29	1	HB058-M12-XXXF(5/8)	42.75 - 47.83	1.0000	1.0000
L29	4	HB158-21U6S24-xxM_TMO (1-5/8)	42.75 - 47.83	1.0000	1.0000
L29	10	CU12PSM9P6XXX(1-1/2)	42.75 - 47.83	1.0000	1.0000
L29	22	Safety Line 3/8	42.75 - 47.83	1.0000	1.0000
L29	27	MP3-05 (Surface Af)	42.75 - 47.83	1.0000	1.0000
L29	29	MP3-05 (Surface Af)	42.75 - 47.83	1.0000	1.0000
L29	30	MP3-05 (Surface Af)	42.75 - 47.83	1.0000	1.0000
L29	39	CCI 6" x 1" Plate	42.75 - 47.83	1.0000	1.0000
L29	40	CCI 6" x 1" Plate	42.75 - 47.83	1.0000	1.0000
L29	41	CCI 6" x 1" Plate	42.75 - 47.83	1.0000	1.0000
L30	1	HB058-M12-XXXF(5/8)	42.50 - 42.75	1.0000	1.0000
L30	4	HB158-21U6S24-xxM_TMO (1-5/8)	42.50 - 42.75	1.0000	1.0000
L30	10	CU12PSM9P6XXX(1-1/2)	42.50 - 42.75	1.0000	1.0000
L30	22	Safety Line 3/8	42.50 - 42.75	1.0000	1.0000
L30	27	MP3-05 (Surface Af)	42.50 - 42.75	1.0000	1.0000
L30	29	MP3-05 (Surface Af)	42.50 - 42.75	1.0000	1.0000
L30	30	MP3-05 (Surface Af)	42.50 - 42.75	1.0000	1.0000
L30	39	CCI 6" x 1" Plate	42.50 - 42.75	1.0000	1.0000
L30	40	CCI 6" x 1" Plate	42.50 - 42.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L30	41	CCI 6" x 1" Plate	42.50 - 42.75	1.0000	1.0000
L31	1	HB058-M12-XXXF(5/8)	37.50 - 42.50	1.0000	1.0000
L31	4	HB158-21U6S24-xxM_TMO (1-5/8)	37.50 - 42.50	1.0000	1.0000
L31	10	CU12PSM9P6XXX(1-1/2)	37.50 - 42.50	1.0000	1.0000
L31	22	Safety Line 3/8	37.50 - 42.50	1.0000	1.0000
L31	27	MP3-05 (Surface Af)	37.50 - 42.50	1.0000	1.0000
L31	29	MP3-05 (Surface Af)	37.50 - 42.50	1.0000	1.0000
L31	30	MP3-05 (Surface Af)	37.50 - 42.50	1.0000	1.0000
L31	39	CCI 6" x 1" Plate	37.50 - 42.50	1.0000	1.0000
L31	40	CCI 6" x 1" Plate	37.50 - 42.50	1.0000	1.0000
L31	41	CCI 6" x 1" Plate	37.50 - 42.50	1.0000	1.0000
L32	1	HB058-M12-XXXF(5/8)	32.75 - 37.50	1.0000	1.0000
L32	4	HB158-21U6S24-xxM_TMO (1-5/8)	32.75 - 37.50	1.0000	1.0000
L32	10	CU12PSM9P6XXX(1-1/2)	32.75 - 37.50	1.0000	1.0000
L32	22	Safety Line 3/8	32.75 - 37.50	1.0000	1.0000
L32	27	MP3-05 (Surface Af)	32.75 - 37.50	1.0000	1.0000
L32	29	MP3-05 (Surface Af)	32.75 - 37.50	1.0000	1.0000
L32	30	MP3-05 (Surface Af)	32.75 - 37.50	1.0000	1.0000
L32	35	CCI 6.5" x 1.25" Plate	32.75 - 35.50	1.0000	1.0000
L32	36	CCI 6.5" x 1.25" Plate	32.75 - 35.50	1.0000	1.0000
L32	37	CCI 6.5" x 1.25" Plate	32.75 - 35.50	1.0000	1.0000
L32	39	CCI 6" x 1" Plate	35.58 - 37.50	1.0000	1.0000
L32	40	CCI 6" x 1" Plate	35.58 - 37.50	1.0000	1.0000
L32	41	CCI 6" x 1" Plate	35.58 - 37.50	1.0000	1.0000
L33	1	HB058-M12-XXXF(5/8)	32.50 - 32.75	1.0000	1.0000
L33	4	HB158-21U6S24-xxM_TMO (1-5/8)	32.50 - 32.75	1.0000	1.0000
L33	10	CU12PSM9P6XXX(1-1/2)	32.50 - 32.75	1.0000	1.0000
L33	22	Safety Line 3/8	32.50 - 32.75	1.0000	1.0000
L33	27	MP3-05 (Surface Af)	32.50 - 32.75	1.0000	1.0000
L33	29	MP3-05 (Surface Af)	32.50 - 32.75	1.0000	1.0000
L33	30	MP3-05 (Surface Af)	32.50 - 32.75	1.0000	1.0000
L33	35	CCI 6.5" x 1.25" Plate	32.50 - 32.75	1.0000	1.0000
L33	36	CCI 6.5" x 1.25" Plate	32.50 - 32.75	1.0000	1.0000
L33	37	CCI 6.5" x 1.25" Plate	32.50 - 32.75	1.0000	1.0000
L34	1	HB058-M12-XXXF(5/8)	27.50 - 32.50	1.0000	1.0000
L34	4	HB158-21U6S24-xxM_TMO (1-5/8)	27.50 - 32.50	1.0000	1.0000
L34	10	CU12PSM9P6XXX(1-1/2)	27.50 - 32.50	1.0000	1.0000
L34	22	Safety Line 3/8	27.50 - 32.50	1.0000	1.0000
L34	27	MP3-05 (Surface Af)	27.50 - 32.50	1.0000	1.0000
L34	29	MP3-05 (Surface Af)	27.50 - 32.50	1.0000	1.0000
L34	30	MP3-05 (Surface Af)	27.50 - 32.50	1.0000	1.0000
L34	35	CCI 6.5" x 1.25" Plate	27.50 - 32.50	1.0000	1.0000
L34	36	CCI 6.5" x 1.25" Plate	27.50 - 32.50	1.0000	1.0000
L34	37	CCI 6.5" x 1.25" Plate	27.50 - 32.50	1.0000	1.0000
L35	1	HB058-M12-XXXF(5/8)	22.50 - 27.50	1.0000	1.0000
L35	4	HB158-21U6S24-xxM_TMO (1-5/8)	22.50 - 27.50	1.0000	1.0000
L35	10	CU12PSM9P6XXX(1-1/2)	22.50 - 27.50	1.0000	1.0000
L35	22	Safety Line 3/8	22.50 - 27.50	1.0000	1.0000
L35	27	MP3-05 (Surface Af)	22.50 - 27.50	1.0000	1.0000
L35	29	MP3-05 (Surface Af)	22.50 - 27.50	1.0000	1.0000
L35	30	MP3-05 (Surface Af)	22.50 - 27.50	1.0000	1.0000
L35	35	CCI 6.5" x 1.25" Plate	22.50 - 27.50	1.0000	1.0000
L35	36	CCI 6.5" x 1.25" Plate	22.50 - 27.50	1.0000	1.0000
L35	37	CCI 6.5" x 1.25" Plate	22.50 - 27.50	1.0000	1.0000
L36	1	HB058-M12-XXXF(5/8)	17.50 - 22.50	1.0000	1.0000
L36	4	HB158-21U6S24-xxM_TMO (1-5/8)	17.50 - 22.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L36	10	CU12PSM9P6XXX(1-1/2)	17.50 - 22.50	1.0000	1.0000
L36	22	Safety Line 3/8	17.50 - 22.50	1.0000	1.0000
L36	27	MP3-05 (Surface Af)	17.50 - 22.50	1.0000	1.0000
L36	29	MP3-05 (Surface Af)	17.50 - 22.50	1.0000	1.0000
L36	30	MP3-05 (Surface Af)	17.50 - 22.50	1.0000	1.0000
L36	35	CCI 6.5" x 1.25" Plate	17.50 - 22.50	1.0000	1.0000
L36	36	CCI 6.5" x 1.25" Plate	17.50 - 22.50	1.0000	1.0000
L36	37	CCI 6.5" x 1.25" Plate	17.50 - 22.50	1.0000	1.0000
L37	1	HB058-M12-XXXF(5/8)	12.50 - 17.50	1.0000	1.0000
L37	4	HB158-21U6S24-xxM_TMO (1-5/8)	12.50 - 17.50	1.0000	1.0000
L37	10	CU12PSM9P6XXX(1-1/2)	12.50 - 17.50	1.0000	1.0000
L37	22	Safety Line 3/8	12.50 - 17.50	1.0000	1.0000
L37	27	MP3-05 (Surface Af)	12.50 - 17.50	1.0000	1.0000
L37	29	MP3-05 (Surface Af)	12.50 - 17.50	1.0000	1.0000
L37	30	MP3-05 (Surface Af)	12.50 - 17.50	1.0000	1.0000
L37	35	CCI 6.5" x 1.25" Plate	12.50 - 17.50	1.0000	1.0000
L37	36	CCI 6.5" x 1.25" Plate	12.50 - 17.50	1.0000	1.0000
L37	37	CCI 6.5" x 1.25" Plate	12.50 - 17.50	1.0000	1.0000
L38	1	HB058-M12-XXXF(5/8)	8.08 - 12.50	1.0000	1.0000
L38	4	HB158-21U6S24-xxM_TMO (1-5/8)	8.08 - 12.50	1.0000	1.0000
L38	10	CU12PSM9P6XXX(1-1/2)	8.08 - 12.50	1.0000	1.0000
L38	22	Safety Line 3/8	8.08 - 12.50	1.0000	1.0000
L38	24	MP3-05 (Surface Af)	8.08 - 10.50	1.0000	1.0000
L38	25	MP3-05 (Surface Af)	8.08 - 10.50	1.0000	1.0000
L38	27	MP3-05 (Surface Af)	8.08 - 12.50	1.0000	1.0000
L38	29	MP3-05 (Surface Af)	8.08 - 12.50	1.0000	1.0000
L38	30	MP3-05 (Surface Af)	8.08 - 12.50	1.0000	1.0000
L38	35	CCI 6.5" x 1.25" Plate	8.08 - 12.50	1.0000	1.0000
L38	36	CCI 6.5" x 1.25" Plate	8.08 - 12.50	1.0000	1.0000
L38	37	CCI 6.5" x 1.25" Plate	8.08 - 12.50	1.0000	1.0000
L39	1	HB058-M12-XXXF(5/8)	7.83 - 8.08	1.0000	1.0000
L39	4	HB158-21U6S24-xxM_TMO (1-5/8)	7.83 - 8.08	1.0000	1.0000
L39	10	CU12PSM9P6XXX(1-1/2)	7.83 - 8.08	1.0000	1.0000
L39	22	Safety Line 3/8	7.83 - 8.08	1.0000	1.0000
L39	24	MP3-05 (Surface Af)	7.83 - 8.08	1.0000	1.0000
L39	25	MP3-05 (Surface Af)	7.83 - 8.08	1.0000	1.0000
L39	27	MP3-05 (Surface Af)	7.83 - 8.08	1.0000	1.0000
L39	29	MP3-05 (Surface Af)	7.83 - 8.08	1.0000	1.0000
L39	30	MP3-05 (Surface Af)	7.83 - 8.08	1.0000	1.0000
L39	35	CCI 6.5" x 1.25" Plate	7.83 - 8.08	1.0000	1.0000
L39	36	CCI 6.5" x 1.25" Plate	7.83 - 8.08	1.0000	1.0000
L39	37	CCI 6.5" x 1.25" Plate	7.83 - 8.08	1.0000	1.0000
L40	1	HB058-M12-XXXF(5/8)	6.42 - 7.83	1.0000	1.0000
L40	4	HB158-21U6S24-xxM_TMO (1-5/8)	6.42 - 7.83	1.0000	1.0000
L40	10	CU12PSM9P6XXX(1-1/2)	6.42 - 7.83	1.0000	1.0000
L40	22	Safety Line 3/8	6.42 - 7.83	1.0000	1.0000
L40	24	MP3-05 (Surface Af)	6.42 - 7.83	1.0000	1.0000
L40	25	MP3-05 (Surface Af)	6.42 - 7.83	1.0000	1.0000
L40	27	MP3-05 (Surface Af)	6.42 - 7.83	1.0000	1.0000
L40	29	MP3-05 (Surface Af)	6.42 - 7.83	1.0000	1.0000
L40	30	MP3-05 (Surface Af)	6.42 - 7.83	1.0000	1.0000
L40	35	CCI 6.5" x 1.25" Plate	6.42 - 7.83	1.0000	1.0000
L40	36	CCI 6.5" x 1.25" Plate	6.42 - 7.83	1.0000	1.0000
L40	37	CCI 6.5" x 1.25" Plate	6.42 - 7.83	1.0000	1.0000
L41	1	HB058-M12-XXXF(5/8)	6.17 - 6.42	1.0000	1.0000
L41	4	HB158-21U6S24-xxM_TMO (1-5/8)	6.17 - 6.42	1.0000	1.0000
L41	10	CU12PSM9P6XXX(1-1/2)	6.17 - 6.42	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L41	22	Safety Line 3/8	6.17 - 6.42	1.0000	1.0000
L41	24	MP3-05 (Surface Af)	6.17 - 6.42	1.0000	1.0000
L41	25	MP3-05 (Surface Af)	6.17 - 6.42	1.0000	1.0000
L41	27	MP3-05 (Surface Af)	6.17 - 6.42	1.0000	1.0000
L41	29	MP3-05 (Surface Af)	6.17 - 6.42	1.0000	1.0000
L41	30	MP3-05 (Surface Af)	6.17 - 6.42	1.0000	1.0000
L41	35	CCI 6.5" x 1.25" Plate	6.17 - 6.42	1.0000	1.0000
L41	36	CCI 6.5" x 1.25" Plate	6.17 - 6.42	1.0000	1.0000
L41	37	CCI 6.5" x 1.25" Plate	6.17 - 6.42	1.0000	1.0000
L42	1	HB058-M12-XXXF(5/8)	1.17 - 6.17	1.0000	1.0000
L42	4	HB158-21U6S24-xxM_TMO (1-5/8)	1.17 - 6.17	1.0000	1.0000
L42	10	CU12PSM9P6XXX(1-1/2)	1.17 - 6.17	1.0000	1.0000
L42	22	Safety Line 3/8	1.17 - 6.17	1.0000	1.0000
L42	24	MP3-05 (Surface Af)	1.17 - 6.17	1.0000	1.0000
L42	25	MP3-05 (Surface Af)	1.17 - 6.17	1.0000	1.0000
L42	27	MP3-05 (Surface Af)	4.00 - 6.17	1.0000	1.0000
L42	29	MP3-05 (Surface Af)	1.17 - 6.17	1.0000	1.0000
L42	30	MP3-05 (Surface Af)	1.17 - 6.17	1.0000	1.0000
L42	35	CCI 6.5" x 1.25" Plate	1.17 - 6.17	1.0000	1.0000
L42	36	CCI 6.5" x 1.25" Plate	1.17 - 6.17	1.0000	1.0000
L42	37	CCI 6.5" x 1.25" Plate	1.17 - 6.17	1.0000	1.0000
L43	1	HB058-M12-XXXF(5/8)	0.00 - 1.17	1.0000	1.0000
L43	4	HB158-21U6S24-xxM_TMO (1-5/8)	0.00 - 1.17	1.0000	1.0000
L43	10	CU12PSM9P6XXX(1-1/2)	0.00 - 1.17	1.0000	1.0000
L43	22	Safety Line 3/8	0.00 - 1.17	1.0000	1.0000
L43	24	MP3-05 (Surface Af)	0.00 - 1.17	1.0000	1.0000
L43	25	MP3-05 (Surface Af)	0.00 - 1.17	1.0000	1.0000
L43	29	MP3-05 (Surface Af)	0.00 - 1.17	1.0000	1.0000
L43	30	MP3-05 (Surface Af)	0.00 - 1.17	1.0000	1.0000
L43	35	CCI 6.5" x 1.25" Plate	0.00 - 1.17	1.0000	1.0000
L43	36	CCI 6.5" x 1.25" Plate	0.00 - 1.17	1.0000	1.0000
L43	37	CCI 6.5" x 1.25" Plate	0.00 - 1.17	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L12	29	MP3-05 (Surface Af)	89.67 - 90.50	Auto	0.0737
L12	30	MP3-05 (Surface Af)	89.67 - 90.50	Auto	0.0737
L12	33	MP3-05 (Surface Af)	89.67 - 92.08	Auto	0.0781
L13	29	MP3-05 (Surface Af)	89.42 - 89.67	Auto	0.0706
L13	30	MP3-05 (Surface Af)	89.42 - 89.67	Auto	0.0706
L13	33	MP3-05 (Surface Af)	89.42 - 89.67	Auto	0.0706
L14	29	MP3-05 (Surface Af)	88.08 - 89.42	Auto	0.0662
L14	30	MP3-05 (Surface Af)	88.08 - 89.42	Auto	0.0662
L14	32	MP3-05 (Surface Af)	88.08 - 88.25	Auto	0.0629
L14	33	MP3-05 (Surface Af)	88.08 - 89.42	Auto	0.0662
L15	29	MP3-05 (Surface Af)	87.83 - 88.08	Auto	0.1278
L15	30	MP3-05 (Surface Af)	87.83 - 88.08	Auto	0.1278
L15	32	MP3-05 (Surface Af)	87.83 - 88.08	Auto	0.1278
L15	33	MP3-05 (Surface Af)	87.83 - 88.08	Auto	0.1278

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L16	29	MP3-05 (Surface Af)	85.83 - 87.83	Auto	0.1215
L16	30	MP3-05 (Surface Af)	85.83 - 87.83	Auto	0.1215
L16	32	MP3-05 (Surface Af)	85.83 - 87.83	Auto	0.1215
L16	33	MP3-05 (Surface Af)	85.83 - 87.83	Auto	0.1215
L17	29	MP3-05 (Surface Af)	85.58 - 85.83	Auto	0.1152
L17	30	MP3-05 (Surface Af)	85.58 - 85.83	Auto	0.1152
L17	32	MP3-05 (Surface Af)	85.58 - 85.83	Auto	0.1152
L17	33	MP3-05 (Surface Af)	85.58 - 85.83	Auto	0.1152
L18	29	MP3-05 (Surface Af)	84.50 - 85.58	Auto	0.1114
L18	30	MP3-05 (Surface Af)	84.50 - 85.58	Auto	0.1114
L18	32	MP3-05 (Surface Af)	84.50 - 85.58	Auto	0.1114
L18	33	MP3-05 (Surface Af)	84.50 - 85.58	Auto	0.1114
L19	29	MP3-05 (Surface Af)	84.25 - 84.50	Auto	0.0953
L19	30	MP3-05 (Surface Af)	84.25 - 84.50	Auto	0.0953
L19	32	MP3-05 (Surface Af)	84.25 - 84.50	Auto	0.0953
L19	33	MP3-05 (Surface Af)	84.25 - 84.50	Auto	0.0953
L20	29	MP3-05 (Surface Af)	79.25 - 84.25	Auto	0.0764
L20	30	MP3-05 (Surface Af)	79.25 - 84.25	Auto	0.0764
L20	32	MP3-05 (Surface Af)	79.25 - 84.25	Auto	0.0764
L20	33	MP3-05 (Surface Af)	82.08 - 84.25	Auto	0.0844
L21	27	MP3-05 (Surface Af)	73.75 - 79.00	Auto	0.0462
L21	29	MP3-05 (Surface Af)	73.75 - 79.25	Auto	0.0469
L21	30	MP3-05 (Surface Af)	73.75 - 79.25	Auto	0.0469
L21	32	MP3-05 (Surface Af)	73.75 - 79.25	Auto	0.0469
L22	27	MP3-05 (Surface Af)	72.75 - 73.75	Auto	0.0824
L22	29	MP3-05 (Surface Af)	72.75 - 73.75	Auto	0.0824
L22	30	MP3-05 (Surface Af)	72.75 - 73.75	Auto	0.0824
L22	32	MP3-05 (Surface Af)	73.25 - 73.75	Auto	0.0838
L23	27	MP3-05 (Surface Af)	67.75 - 72.75	Auto	0.0655
L23	29	MP3-05 (Surface Af)	67.75 - 72.75	Auto	0.0655
L23	30	MP3-05 (Surface Af)	67.75 - 72.75	Auto	0.0655
L24	27	MP3-05 (Surface Af)	63.08 - 67.75	Auto	0.0342
L24	29	MP3-05 (Surface Af)	63.08 - 67.75	Auto	0.0342
L24	30	MP3-05 (Surface Af)	63.08 - 67.75	Auto	0.0342
L24	39	CCI 6" x 1" Plate	63.08 - 65.58	Auto	0.1367
L24	40	CCI 6" x 1" Plate	63.08 - 65.58	Auto	0.1367
L24	41	CCI 6" x 1" Plate	63.08 - 65.58	Auto	0.1367
L25	27	MP3-05 (Surface Af)	62.83 - 63.08	Auto	0.0741
L25	29	MP3-05 (Surface Af)	62.83 - 63.08	Auto	0.0741
L25	30	MP3-05 (Surface Af)	62.83 - 63.08	Auto	0.0741
L25	39	CCI 6" x 1" Plate	62.83 - 63.08	Auto	0.1775
L25	40	CCI 6" x 1" Plate	62.83 - 63.08	Auto	0.1775
L25	41	CCI 6" x 1" Plate	62.83 - 63.08	Auto	0.1775
L26	27	MP3-05 (Surface Af)	57.83 - 62.83	Auto	0.0552
L26	29	MP3-05 (Surface Af)	57.83 - 62.83	Auto	0.0552
L26	30	MP3-05 (Surface Af)	57.83 - 62.83	Auto	0.0552
L26	39	CCI 6" x 1" Plate	57.83 - 62.83	Auto	0.1607
L26	40	CCI 6" x 1" Plate	57.83 - 62.83	Auto	0.1607
L26	41	CCI 6" x 1" Plate	57.83 - 62.83	Auto	0.1607
L27	27	MP3-05 (Surface Af)	52.83 - 57.83	Auto	0.0230
L27	29	MP3-05 (Surface Af)	52.83 - 57.83	Auto	0.0230
L27	30	MP3-05 (Surface Af)	52.83 - 57.83	Auto	0.0230
L27	39	CCI 6" x 1" Plate	52.83 - 57.83	Auto	0.1321
L27	40	CCI 6" x 1" Plate	52.83 - 57.83	Auto	0.1321
L27	41	CCI 6" x 1" Plate	52.83 - 57.83	Auto	0.1321
L28	27	MP3-05 (Surface Af)	47.83 - 52.83	Auto	0.0014
L28	29	MP3-05 (Surface Af)	47.83 - 52.83	Auto	0.0014
L28	30	MP3-05 (Surface Af)	47.83 - 52.83	Auto	0.0014
L28	39	CCI 6" x 1" Plate	47.83 - 52.83	Auto	0.1072
L28	40	CCI 6" x 1" Plate	47.83 - 52.83	Auto	0.1072
L28	41	CCI 6" x 1" Plate	47.83 - 52.83	Auto	0.1072

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L29	27	MP3-05 (Surface Af)	42.75 - 47.83	Auto	0.0000
L29	29	MP3-05 (Surface Af)	42.75 - 47.83	Auto	0.0000
L29	30	MP3-05 (Surface Af)	42.75 - 47.83	Auto	0.0000
L29	39	CCI 6" x 1" Plate	42.75 - 47.83	Auto	0.0784
L29	40	CCI 6" x 1" Plate	42.75 - 47.83	Auto	0.0784
L29	41	CCI 6" x 1" Plate	42.75 - 47.83	Auto	0.0784
L30	27	MP3-05 (Surface Af)	42.50 - 42.75	Auto	0.0000
L30	29	MP3-05 (Surface Af)	42.50 - 42.75	Auto	0.0000
L30	30	MP3-05 (Surface Af)	42.50 - 42.75	Auto	0.0000
L30	39	CCI 6" x 1" Plate	42.50 - 42.75	Auto	0.1091
L30	40	CCI 6" x 1" Plate	42.50 - 42.75	Auto	0.1091
L30	41	CCI 6" x 1" Plate	42.50 - 42.75	Auto	0.1091
L31	27	MP3-05 (Surface Af)	37.50 - 42.50	Auto	0.0000
L31	29	MP3-05 (Surface Af)	37.50 - 42.50	Auto	0.0000
L31	30	MP3-05 (Surface Af)	37.50 - 42.50	Auto	0.0000
L31	39	CCI 6" x 1" Plate	37.50 - 42.50	Auto	0.0923
L31	40	CCI 6" x 1" Plate	37.50 - 42.50	Auto	0.0923
L31	41	CCI 6" x 1" Plate	37.50 - 42.50	Auto	0.0923
L32	27	MP3-05 (Surface Af)	32.75 - 37.50	Auto	0.0000
L32	29	MP3-05 (Surface Af)	32.75 - 37.50	Auto	0.0000
L32	30	MP3-05 (Surface Af)	32.75 - 37.50	Auto	0.0000
L32	35	CCI 6.5" x 1.25" Plate	32.75 - 35.50	Auto	0.1351
L32	36	CCI 6.5" x 1.25" Plate	32.75 - 35.50	Auto	0.1351
L32	37	CCI 6.5" x 1.25" Plate	32.75 - 35.50	Auto	0.1351
L32	39	CCI 6" x 1" Plate	35.58 - 37.50	Auto	0.0751
L32	40	CCI 6" x 1" Plate	35.58 - 37.50	Auto	0.0751
L32	41	CCI 6" x 1" Plate	35.58 - 37.50	Auto	0.0751
L33	27	MP3-05 (Surface Af)	32.50 - 32.75	Auto	0.0000
L33	29	MP3-05 (Surface Af)	32.50 - 32.75	Auto	0.0000
L33	30	MP3-05 (Surface Af)	32.50 - 32.75	Auto	0.0000
L33	35	CCI 6.5" x 1.25" Plate	32.50 - 32.75	Auto	0.1417
L33	36	CCI 6.5" x 1.25" Plate	32.50 - 32.75	Auto	0.1417
L33	37	CCI 6.5" x 1.25" Plate	32.50 - 32.75	Auto	0.1417
L34	27	MP3-05 (Surface Af)	27.50 - 32.50	Auto	0.0000
L34	29	MP3-05 (Surface Af)	27.50 - 32.50	Auto	0.0000
L34	30	MP3-05 (Surface Af)	27.50 - 32.50	Auto	0.0000
L34	35	CCI 6.5" x 1.25" Plate	27.50 - 32.50	Auto	0.1263
L34	36	CCI 6.5" x 1.25" Plate	27.50 - 32.50	Auto	0.1263
L34	37	CCI 6.5" x 1.25" Plate	27.50 - 32.50	Auto	0.1263
L35	27	MP3-05 (Surface Af)	22.50 - 27.50	Auto	0.0000
L35	29	MP3-05 (Surface Af)	22.50 - 27.50	Auto	0.0000
L35	30	MP3-05 (Surface Af)	22.50 - 27.50	Auto	0.0000
L35	35	CCI 6.5" x 1.25" Plate	22.50 - 27.50	Auto	0.0999
L35	36	CCI 6.5" x 1.25" Plate	22.50 - 27.50	Auto	0.0999
L35	37	CCI 6.5" x 1.25" Plate	22.50 - 27.50	Auto	0.0999
L36	27	MP3-05 (Surface Af)	17.50 - 22.50	Auto	0.0000
L36	29	MP3-05 (Surface Af)	17.50 - 22.50	Auto	0.0000
L36	30	MP3-05 (Surface Af)	17.50 - 22.50	Auto	0.0000
L36	35	CCI 6.5" x 1.25" Plate	17.50 - 22.50	Auto	0.0768
L36	36	CCI 6.5" x 1.25" Plate	17.50 - 22.50	Auto	0.0768
L36	37	CCI 6.5" x 1.25" Plate	17.50 - 22.50	Auto	0.0768
L37	27	MP3-05 (Surface Af)	12.50 - 17.50	Auto	0.0000
L37	29	MP3-05 (Surface Af)	12.50 - 17.50	Auto	0.0000
L37	30	MP3-05 (Surface Af)	12.50 - 17.50	Auto	0.0000
L37	35	CCI 6.5" x 1.25" Plate	12.50 - 17.50	Auto	0.0504
L37	36	CCI 6.5" x 1.25" Plate	12.50 - 17.50	Auto	0.0504
L37	37	CCI 6.5" x 1.25" Plate	12.50 - 17.50	Auto	0.0504
L38	24	MP3-05 (Surface Af)	8.08 - 10.50	Auto	0.0000
L38	25	MP3-05 (Surface Af)	8.08 - 10.50	Auto	0.0000
L38	27	MP3-05 (Surface Af)	8.08 - 12.50	Auto	0.0000
L38	29	MP3-05 (Surface Af)	8.08 - 12.50	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L38	30	MP3-05 (Surface Af)	8.08 - 12.50	Auto	0.0000
L38	35	CCI 6.5" x 1.25" Plate	8.08 - 12.50	Auto	0.0254
L38	36	CCI 6.5" x 1.25" Plate	8.08 - 12.50	Auto	0.0254
L38	37	CCI 6.5" x 1.25" Plate	8.08 - 12.50	Auto	0.0254
L39	24	MP3-05 (Surface Af)	7.83 - 8.08	Auto	0.0000
L39	25	MP3-05 (Surface Af)	7.83 - 8.08	Auto	0.0000
L39	27	MP3-05 (Surface Af)	7.83 - 8.08	Auto	0.0000
L39	29	MP3-05 (Surface Af)	7.83 - 8.08	Auto	0.0000
L39	30	MP3-05 (Surface Af)	7.83 - 8.08	Auto	0.0000
L39	35	CCI 6.5" x 1.25" Plate	7.83 - 8.08	Auto	0.0315
L39	36	CCI 6.5" x 1.25" Plate	7.83 - 8.08	Auto	0.0315
L39	37	CCI 6.5" x 1.25" Plate	7.83 - 8.08	Auto	0.0315
L40	24	MP3-05 (Surface Af)	6.42 - 7.83	Auto	0.0000
L40	25	MP3-05 (Surface Af)	6.42 - 7.83	Auto	0.0000
L40	27	MP3-05 (Surface Af)	6.42 - 7.83	Auto	0.0000
L40	29	MP3-05 (Surface Af)	6.42 - 7.83	Auto	0.0000
L40	30	MP3-05 (Surface Af)	6.42 - 7.83	Auto	0.0000
L40	35	CCI 6.5" x 1.25" Plate	6.42 - 7.83	Auto	0.0243
L40	36	CCI 6.5" x 1.25" Plate	6.42 - 7.83	Auto	0.0243
L40	37	CCI 6.5" x 1.25" Plate	6.42 - 7.83	Auto	0.0243
L41	24	MP3-05 (Surface Af)	6.17 - 6.42	Auto	0.0000
L41	25	MP3-05 (Surface Af)	6.17 - 6.42	Auto	0.0000
L41	27	MP3-05 (Surface Af)	6.17 - 6.42	Auto	0.0000
L41	29	MP3-05 (Surface Af)	6.17 - 6.42	Auto	0.0000
L41	30	MP3-05 (Surface Af)	6.17 - 6.42	Auto	0.0000
L41	35	CCI 6.5" x 1.25" Plate	6.17 - 6.42	Auto	0.0171
L41	36	CCI 6.5" x 1.25" Plate	6.17 - 6.42	Auto	0.0171
L41	37	CCI 6.5" x 1.25" Plate	6.17 - 6.42	Auto	0.0171
L42	24	MP3-05 (Surface Af)	1.17 - 6.17	Auto	0.0000
L42	25	MP3-05 (Surface Af)	1.17 - 6.17	Auto	0.0000
L42	27	MP3-05 (Surface Af)	4.00 - 6.17	Auto	0.0000
L42	29	MP3-05 (Surface Af)	1.17 - 6.17	Auto	0.0000
L42	30	MP3-05 (Surface Af)	1.17 - 6.17	Auto	0.0000
L42	35	CCI 6.5" x 1.25" Plate	1.17 - 6.17	Auto	0.0038
L42	36	CCI 6.5" x 1.25" Plate	1.17 - 6.17	Auto	0.0038
L42	37	CCI 6.5" x 1.25" Plate	1.17 - 6.17	Auto	0.0038
L43	24	MP3-05 (Surface Af)	0.00 - 1.17	Auto	0.0000
L43	25	MP3-05 (Surface Af)	0.00 - 1.17	Auto	0.0000
L43	29	MP3-05 (Surface Af)	0.00 - 1.17	Auto	0.0000
L43	30	MP3-05 (Surface Af)	0.00 - 1.17	Auto	0.0000
L43	35	CCI 6.5" x 1.25" Plate	0.00 - 1.17	Auto	0.0000
L43	36	CCI 6.5" x 1.25" Plate	0.00 - 1.17	Auto	0.0000
L43	37	CCI 6.5" x 1.25" Plate	0.00 - 1.17	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
APXVSPP18-C-A20 w/	A	From Leg	4.000	0.000	147.000	No Ice	4.600	4.010	0.095

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Mount Pipe			0.000			1/2" Ice	5.050	4.450	0.160
			0.000			1" Ice	5.500	4.890	0.235
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000	0.000	147.000	No Ice	4.600	4.010	0.095
			0.000			1/2" Ice	5.050	4.450	0.160
			0.000			1" Ice	5.500	4.890	0.235
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000	0.000	147.000	No Ice	4.600	4.010	0.095
			0.000			1/2" Ice	5.050	4.450	0.160
			0.000			1" Ice	5.500	4.890	0.235
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000	0.000	147.000	No Ice	4.090	2.860	0.077
			0.000			1/2" Ice	4.480	3.230	0.127
			0.000			1" Ice	4.880	3.610	0.185
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000	0.000	147.000	No Ice	4.090	2.860	0.077
			0.000			1/2" Ice	4.480	3.230	0.127
			0.000			1" Ice	4.880	3.610	0.185
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000	0.000	147.000	No Ice	4.090	2.860	0.077
			0.000			1/2" Ice	4.480	3.230	0.127
			0.000			1" Ice	4.880	3.610	0.185
800 EXTERNAL NOTCH FILTER	A	From Leg	4.000	0.000	147.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	B	From Leg	4.000	0.000	147.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024
800 EXTERNAL NOTCH FILTER	C	From Leg	4.000	0.000	147.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024
800MHZ RRH	A	From Leg	4.000	0.000	147.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
800MHZ RRH	B	From Leg	4.000	0.000	147.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
800MHZ RRH	C	From Leg	4.000	0.000	147.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
1900MHZ RRH (65MHZ)	A	From Leg	4.000	0.000	147.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
1900MHZ RRH (65MHZ)	B	From Leg	4.000	0.000	147.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
1900MHZ RRH (65MHZ)	C	From Leg	4.000	0.000	147.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
(3) ACU-A20-N	A	From Leg	4.000	0.000	147.000	No Ice	0.067	0.117	0.001
			0.000			1/2" Ice	0.104	0.162	0.002
			0.000			1" Ice	0.148	0.215	0.004
(3) ACU-A20-N	B	From Leg	4.000	0.000	147.000	No Ice	0.067	0.117	0.001
			0.000			1/2" Ice	0.104	0.162	0.002
			0.000			1" Ice	0.148	0.215	0.004
(3) ACU-A20-N	C	From Leg	4.000	0.000	147.000	No Ice	0.067	0.117	0.001
			0.000			1/2" Ice	0.104	0.162	0.002
			0.000			1" Ice	0.148	0.215	0.004
TD-RRH8X20-25	A	From Leg	4.000	0.000	147.000	No Ice	4.045	1.535	0.070
			0.000			1/2" Ice	4.298	1.714	0.097
			0.000			1" Ice	4.557	1.901	0.128
TD-RRH8X20-25	B	From Leg	4.000	0.000	147.000	No Ice	4.045	1.535	0.070

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1/2" Ice	4.298	1.714	0.097
			0.000			1" Ice	4.557	1.901	0.128
TD-RRH8X20-25	C	From Leg	4.000	0.000	147.000	No Ice	4.045	1.535	0.070
			0.000			1/2" Ice	4.298	1.714	0.097
			0.000			1" Ice	4.557	1.901	0.128
(2) 6' x 2" Mount Pipe	A	From Leg	4.000	0.000	147.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
(2) 6' x 2" Mount Pipe	B	From Leg	4.000	0.000	147.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
(2) 6' x 2" Mount Pipe	C	From Leg	4.000	0.000	147.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
Platform Mount [LP 1201-1_HR-1]	C	None		0.000	147.000	No Ice	26.390	26.390	2.356
						1/2" Ice	31.400	31.400	3.061
						1" Ice	36.200	36.200	3.864
*									
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000	0.000	136.000	No Ice	5.190	2.710	0.128
			0.000			1/2" Ice	5.590	3.040	0.174
			1.000			1" Ice	6.020	3.380	0.227
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000	0.000	136.000	No Ice	5.190	2.710	0.128
			0.000			1/2" Ice	5.590	3.040	0.174
			1.000			1" Ice	6.020	3.380	0.227
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000	0.000	136.000	No Ice	5.190	2.710	0.128
			0.000			1/2" Ice	5.590	3.040	0.174
			1.000			1" Ice	6.020	3.380	0.227
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Leg	4.000	0.000	136.000	No Ice	14.690	6.870	0.183
			0.000			1/2" Ice	15.460	7.550	0.311
			1.000			1" Ice	16.230	8.250	0.453
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	B	From Leg	4.000	0.000	136.000	No Ice	14.690	6.870	0.183
			0.000			1/2" Ice	15.460	7.550	0.311
			1.000			1" Ice	16.230	8.250	0.453
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Leg	4.000	0.000	136.000	No Ice	14.690	6.870	0.183
			0.000			1/2" Ice	15.460	7.550	0.311
			1.000			1" Ice	16.230	8.250	0.453
APX16DWV-16DWV-S-E-A 20 w/ Mount Pipe	A	From Leg	4.000	0.000	136.000	No Ice	6.290	2.760	0.061
			0.000			1/2" Ice	6.860	3.270	0.105
			1.000			1" Ice	7.450	3.790	0.157
APX16DWV-16DWV-S-E-A 20 w/ Mount Pipe	B	From Leg	4.000	0.000	136.000	No Ice	6.290	2.760	0.061
			0.000			1/2" Ice	6.860	3.270	0.105
			1.000			1" Ice	7.450	3.790	0.157
APX16DWV-16DWV-S-E-A 20 w/ Mount Pipe	C	From Leg	4.000	0.000	136.000	No Ice	6.290	2.760	0.061
			0.000			1/2" Ice	6.860	3.270	0.105
			1.000			1" Ice	7.450	3.790	0.157
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.000	0.000	136.000	No Ice	1.970	1.587	0.073
			0.000			1/2" Ice	2.147	1.749	0.093
			1.000			1" Ice	2.331	1.918	0.116
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.000	0.000	136.000	No Ice	1.970	1.587	0.073
			0.000			1/2" Ice	2.147	1.749	0.093
			1.000			1" Ice	2.331	1.918	0.116
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.000	0.000	136.000	No Ice	1.970	1.587	0.073
			0.000			1/2" Ice	2.147	1.749	0.093
			1.000			1" Ice	2.331	1.918	0.116
RADIO 4415 B66A	A	From Leg	4.000	0.000	136.000	No Ice	1.856	0.870	0.050
			0.000			1/2" Ice	2.027	0.997	0.064
			1.000			1" Ice	2.204	1.134	0.081

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
RADIO 4415 B66A	B	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	1.856 2.027 2.204	0.870 0.997 1.134	0.050 0.064 0.081
RADIO 4415 B66A	C	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	1.856 2.027 2.204	0.870 0.997 1.134	0.050 0.064 0.081
RADIO 4424 B25_TMOV1	A	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	2.052 2.231 2.417	1.610 1.772 1.941	0.097 0.118 0.142
RADIO 4424 B25_TMOV1	B	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	2.052 2.231 2.417	1.610 1.772 1.941	0.097 0.118 0.142
RADIO 4424 B25_TMOV1	C	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	2.052 2.231 2.417	1.610 1.772 1.941	0.097 0.118 0.142
8' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
8' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
8' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	1.900 2.728 3.401	1.900 2.728 3.401	0.029 0.044 0.063
4' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
4' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
4' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	136.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
RMQP-496-HK	C	None		0.000	136.000	No Ice 1/2" Ice 1" Ice	23.140 28.170 33.230	23.140 28.170 33.230	1.945 2.335 2.845
*									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	126.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	126.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	126.000	No Ice 1/2" Ice 1" Ice	8.010 8.520 9.040	4.230 4.690 5.160	0.108 0.194 0.292
TA08025-B604	A	From Leg	4.000 0.000 0.000	0.000	126.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B604	B	From Leg	4.000 0.000 0.000	0.000	126.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B604	C	From Leg	4.000 0.000 0.000	0.000	126.000	No Ice 1/2" Ice 1" Ice	1.964 2.138 2.320	0.981 1.112 1.250	0.064 0.081 0.100
TA08025-B605	A	From Leg	4.000 0.000	0.000	126.000	No Ice 1/2" Ice	1.964 2.138	1.129 1.267	0.075 0.093

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	2.320	1.411	0.114
TA08025-B605	B	From Leg	4.000	0.000	126.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
TA08025-B605	C	From Leg	4.000	0.000	126.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
RDIDC-9181-PF-48	A	From Leg	4.000	0.000	126.000	No Ice	2.012	1.168	0.022
			0.000			1/2" Ice	2.189	1.311	0.040
			0.000			1" Ice	2.373	1.461	0.060
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	126.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	126.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	126.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
Commscope MC-PK8-DSH	C	None		0.000	126.000	No Ice	34.240	34.240	1.749
						1/2" Ice	62.950	62.950	2.099
						1" Ice	91.660	91.660	2.450
*									
RRFDC-3315-PF-48	A	From Leg	1.000	0.000	118.000	No Ice	3.364	2.192	0.021
			0.000			1/2" Ice	3.597	2.395	0.050
			0.000			1" Ice	3.838	2.606	0.082
RRFDC-3315-PF-48	B	From Leg	1.000	0.000	118.000	No Ice	3.364	2.192	0.021
			0.000			1/2" Ice	3.597	2.395	0.050
			0.000			1" Ice	3.838	2.606	0.082
*									
(2) LPA-80080/4CF w/ Mount Pipe	A	From Leg	4.000	0.000	115.000	No Ice	2.040	5.220	0.042
			0.000			1/2" Ice	2.420	5.670	0.084
			1.000			1" Ice	2.820	6.130	0.134
(2) LPA-80063/6CF w/ Mount Pipe	B	From Leg	4.000	0.000	115.000	No Ice	9.831	10.215	0.052
			0.000			1/2" Ice	10.400	11.384	0.145
			1.000			1" Ice	10.933	12.269	0.246
(2) APL868013-42T0 w/ Mount Pipe	C	From Leg	4.000	0.000	115.000	No Ice	2.630	4.130	0.030
			0.000			1/2" Ice	3.070	4.600	0.064
			1.000			1" Ice	3.530	5.090	0.106
(2) JAHH-65B-R3B w/ Mount Pipe	A	From Leg	4.000	0.000	115.000	No Ice	5.500	4.380	0.096
			0.000			1/2" Ice	5.970	4.840	0.169
			1.000			1" Ice	6.450	5.300	0.254
(2) JAHH-65B-R3B w/ Mount Pipe	B	From Leg	4.000	0.000	115.000	No Ice	5.500	4.380	0.096
			0.000			1/2" Ice	5.970	4.840	0.169
			1.000			1" Ice	6.450	5.300	0.254
(2) JAHH-65B-R3B w/ Mount Pipe	C	From Leg	4.000	0.000	115.000	No Ice	5.500	4.380	0.096
			0.000			1/2" Ice	5.970	4.840	0.169
			1.000			1" Ice	6.450	5.300	0.254
Sub6 Antenna - VZS01 w/ Mount Pipe	A	From Leg	4.000	0.000	115.000	No Ice	4.915	2.687	0.101
			0.000			1/2" Ice	5.264	3.151	0.141
			1.000			1" Ice	5.623	3.631	0.186
Sub6 Antenna - VZS01 w/ Mount Pipe	B	From Leg	4.000	0.000	115.000	No Ice	4.915	2.687	0.101
			0.000			1/2" Ice	5.264	3.151	0.141
			1.000			1" Ice	5.623	3.631	0.186
Sub6 Antenna - VZS01 w/ Mount Pipe	C	From Leg	4.000	0.000	115.000	No Ice	4.915	2.687	0.101
			0.000			1/2" Ice	5.264	3.151	0.141
			1.000			1" Ice	5.623	3.631	0.186

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
CBC78T-DS-43-2X	A	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	0.368 0.446 0.531	0.512 0.605 0.705	0.021 0.027 0.035
CBC78T-DS-43-2X	B	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	0.368 0.446 0.531	0.512 0.605 0.705	0.021 0.027 0.035
CBC78T-DS-43-2X	C	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	0.368 0.446 0.531	0.512 0.605 0.705	0.021 0.027 0.035
RFV01U-D1A	A	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	B	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D1A	C	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.250 1.393 1.543	0.084 0.103 0.124
RFV01U-D2A	A	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RFV01U-D2A	B	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
RFV01U-D2A	C	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	1.875 2.045 2.223	1.013 1.145 1.284	0.070 0.087 0.106
4' x 2" Pipe Mount	A	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
4' x 2" Pipe Mount	B	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
4' x 2" Pipe Mount	C	From Leg	4.000 0.000 1.000	0.000	115.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
Platform Mount [LP 1201-1]	C	None		0.000	115.000	No Ice 1/2" Ice 1" Ice	18.380 22.110 25.870	18.380 22.110 25.870	2.100 2.652 3.263
*									
DMP65R-BU4D w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	7.530 8.040 8.570	3.790 4.230 4.680	0.095 0.156 0.225
DMP65R-BU4D w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	7.530 8.040 8.570	3.790 4.230 4.680	0.095 0.156 0.225
DMP65R-BU4D w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	7.530 8.040 8.570	3.790 4.230 4.680	0.095 0.156 0.225
RADIO 4449 B5/B12	A	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	1.644 1.804 1.972	1.300 1.445 1.597	0.073 0.090 0.110
RADIO 4449 B5/B12	B	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	1.644 1.804 1.972	1.300 1.445 1.597	0.073 0.090 0.110
RADIO 4449 B5/B12	C	From Leg	4.000 0.000	0.000	106.000	No Ice 1/2" Ice	1.644 1.804	1.300 1.445	0.073 0.090

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			-1.000			1" Ice	1.972	1.597	0.110
RRUS 4478 B14	A	From Leg	4.000	0.000	106.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			-1.000			1" Ice	2.190	1.342	0.094
RRUS 4478 B14	B	From Leg	4.000	0.000	106.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			-1.000			1" Ice	2.190	1.342	0.094
RRUS 4478 B14	C	From Leg	4.000	0.000	106.000	No Ice	1.843	1.059	0.060
			0.000			1/2" Ice	2.012	1.197	0.076
			-1.000			1" Ice	2.190	1.342	0.094
RRUS 32 B2_CCIV2	A	From Leg	4.000	0.000	106.000	No Ice	2.864	1.782	0.055
			0.000			1/2" Ice	3.090	1.973	0.077
			-1.000			1" Ice	3.323	2.171	0.103
RRUS 32 B2_CCIV2	B	From Leg	4.000	0.000	106.000	No Ice	2.864	1.782	0.055
			0.000			1/2" Ice	3.090	1.973	0.077
			-1.000			1" Ice	3.323	2.171	0.103
RRUS 32 B2_CCIV2	C	From Leg	4.000	0.000	106.000	No Ice	2.864	1.782	0.055
			0.000			1/2" Ice	3.090	1.973	0.077
			-1.000			1" Ice	3.323	2.171	0.103
RRUS 32 B30	A	From Leg	4.000	0.000	106.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			-1.000			1" Ice	3.138	1.945	0.104
RRUS 32 B30	B	From Leg	4.000	0.000	106.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			-1.000			1" Ice	3.138	1.945	0.104
RRUS 32 B30	C	From Leg	4.000	0.000	106.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			-1.000			1" Ice	3.138	1.945	0.104
RRUS 4426 B66	A	From Leg	4.000	0.000	106.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			-1.000			1" Ice	1.972	0.969	0.076
RRUS 4426 B66	B	From Leg	4.000	0.000	106.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			-1.000			1" Ice	1.972	0.969	0.076
RRUS 4426 B66	C	From Leg	4.000	0.000	106.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			-1.000			1" Ice	1.972	0.969	0.076
DC6-48-60-18-8F	A	From Leg	4.000	0.000	106.000	No Ice	1.212	1.212	0.033
			0.000			1/2" Ice	1.892	1.892	0.055
			-1.000			1" Ice	2.105	2.105	0.080
DC6-48-60-18-8F	B	From Leg	4.000	0.000	106.000	No Ice	1.212	1.212	0.033
			0.000			1/2" Ice	1.892	1.892	0.055
			-1.000			1" Ice	2.105	2.105	0.080
DC6-48-60-18-8F	C	From Leg	4.000	0.000	106.000	No Ice	1.212	1.212	0.033
			0.000			1/2" Ice	1.892	1.892	0.055
			-1.000			1" Ice	2.105	2.105	0.080
AIR 6449 B77D_CCVI2 w/ Mount Pipe	A	From Leg	4.000	0.000	106.000	No Ice	4.225	2.867	0.094
			0.000			1/2" Ice	4.548	3.295	0.133
			0.000			1" Ice	4.880	3.740	0.177
AIR 6449 B77D_CCVI2 w/ Mount Pipe	B	From Leg	4.000	0.000	106.000	No Ice	4.225	2.867	0.094
			0.000			1/2" Ice	4.548	3.295	0.133
			0.000			1" Ice	4.880	3.740	0.177
AIR 6449 B77D_CCVI2 w/ Mount Pipe	C	From Leg	4.000	0.000	106.000	No Ice	4.225	2.867	0.094
			0.000			1/2" Ice	4.548	3.295	0.133
			0.000			1" Ice	4.880	3.740	0.177
AIR 6419 B77G w/ Mount Pipe	A	From Leg	4.000	0.000	106.000	No Ice	4.320	2.490	0.078
			0.000			1/2" Ice	4.740	2.840	0.110

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			-2.000			1" Ice	5.170	3.210	0.147
AIR 6419 B77G w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	4.320 4.740 5.170	2.490 2.840 3.210	0.078 0.110 0.147
AIR 6419 B77G w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	4.320 4.740 5.170	2.490 2.840 3.210	0.078 0.110 0.147
TPA65R-BU4D w/ Mount Pipe	A	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	8.100 8.650 9.210	4.030 4.500 4.980	0.080 0.141 0.212
TPA65R-BU4D w/ Mount Pipe	B	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	8.100 8.650 9.210	4.030 4.500 4.980	0.080 0.141 0.212
TPA65R-BU4D w/ Mount Pipe	C	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	8.100 8.650 9.210	4.030 4.500 4.980	0.080 0.141 0.212
DC6-48-60-18-8F	A	From Leg	4.000 0.000 -1.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	1.212 1.892 2.105	1.212 1.892 2.105	0.033 0.055 0.080
6' x 2" Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
6' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
6' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	1.425 1.925 2.294	1.425 1.925 2.294	0.022 0.033 0.048
9' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	2.138 3.066 4.010	2.138 3.066 4.010	0.065 0.081 0.103
9' x 2" Pipe Mount	B	From Leg	4.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	2.138 3.066 4.010	2.138 3.066 4.010	0.065 0.081 0.103
9' x 2" Pipe Mount	C	From Leg	4.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	2.138 3.066 4.010	2.138 3.066 4.010	0.065 0.081 0.103
4' x 2" Pipe Mount	A	From Leg	3.000 0.000 0.000	0.000	106.000	No Ice 1/2" Ice 1" Ice	0.785 1.028 1.281	0.785 1.028 1.281	0.029 0.035 0.044
Platform Mount [LP 1201-1_KCKR-HR-1] *	C	None		0.000	106.000	No Ice 1/2" Ice 1" Ice	37.610 45.620 53.590	37.610 45.620 53.590	2.631 3.478 4.462
OG-860/1920/GPS-A	B	From Leg	3.000 0.000 1.000	0.000	76.000	No Ice 1/2" Ice 1" Ice	0.308 0.395 0.490	0.367 0.457 0.555	0.003 0.007 0.011
KS24019-L112A	C	From Leg	3.000 0.000 1.000	0.000	76.000	No Ice 1/2" Ice 1" Ice	0.141 0.198 0.262	0.141 0.198 0.262	0.005 0.007 0.009
Side Arm Mount [SO 701-3] *	C	None		0.000	76.000	No Ice 1/2" Ice 1" Ice	3.020 4.180 5.330	3.020 4.180 5.330	0.195 0.237 0.279

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	147 - 142	Pole	Max Tension	26	0.000	0.000	-0.000
			Max. Compression	26	-7.758	0.010	0.016
			Max. Mx	20	-4.206	22.923	0.007
			Max. My	2	-4.212	-0.000	22.897
			Max. Vy	8	4.783	-22.922	-0.001
			Max. Vx	2	-4.777	-0.000	22.897
			Max. Torque	14			-0.000
L2	142 - 137	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-8.321	0.020	0.033
			Max. Mx	20	-4.565	47.843	0.014
			Max. My	2	-4.572	-0.000	47.789
			Max. Vy	8	5.188	-47.841	-0.002
			Max. Vx	2	-5.182	-0.000	47.789
			Max. Torque	14			-0.000
L3	137 - 132	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-16.380	-0.038	0.090
			Max. Mx	8	-9.150	-97.571	0.014
			Max. My	2	-9.165	-0.038	97.450
			Max. Vy	8	10.544	-97.571	0.014
			Max. Vx	2	-10.531	-0.038	97.450
			Max. Torque	12			-0.001
L4	132 - 127	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-17.061	-0.115	0.159
			Max. Mx	8	-9.598	-151.359	0.035
			Max. My	2	-9.613	-0.085	151.158
			Max. Vy	8	10.960	-151.359	0.035
			Max. Vx	2	-10.947	-0.085	151.158
			Max. Torque	12			-0.001
L5	127 - 122	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-22.676	-0.222	0.566
			Max. Mx	8	-12.946	-221.829	0.170
			Max. My	2	-12.967	-0.146	221.721
			Max. Vy	8	15.034	-221.829	0.170
			Max. Vx	2	-15.021	-0.146	221.721
			Max. Torque	8			0.250
L6	122 - 117	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-23.593	-0.494	0.748
			Max. Mx	8	-13.490	-298.465	0.189
			Max. My	2	-13.513	-0.215	298.185
			Max. Vy	8	15.747	-298.465	0.189
			Max. Vx	2	-15.724	-0.215	298.185
			Max. Torque	22			-0.418
L7	117 - 112	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-32.266	-1.861	0.431
			Max. Mx	8	-18.236	-396.712	0.029
			Max. My	2	-18.285	-0.040	395.268
			Max. Vy	8	21.052	-396.712	0.029
			Max. Vx	2	-20.813	-0.040	395.268
			Max. Torque	14			2.350
L8	112 - 105	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-32.810	-1.945	0.497
			Max. Mx	8	-18.658	-465.580	-0.158
			Max. My	2	-18.709	0.122	463.316
			Max. Vy	8	21.323	-465.580	-0.158
			Max. Vx	2	-21.065	0.122	463.316
			Max. Torque	14			2.349
L9	105 - 103.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.085	-2.076	1.246
			Max. Mx	8	-25.217	-583.916	-0.127
			Max. My	2	-25.279	0.370	580.598
			Max. Vy	8	27.917	-583.916	-0.127

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-27.622	0.370	580.598
			Max. Torque	14			2.347
L10	103.75 - 98.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.139	-2.212	1.353
			Max. Mx	8	-26.135	-724.458	-0.417
			Max. My	2	-26.197	0.620	719.577
			Max. Vy	8	28.304	-724.458	-0.417
			Max. Vx	2	-27.982	0.620	719.577
			Max. Torque	14			2.347
L11	98.75 - 93.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-46.214	-2.347	1.460
			Max. Mx	8	-27.090	-866.887	-0.706
			Max. My	2	-27.150	0.871	860.321
			Max. Vy	8	28.672	-866.887	-0.706
			Max. Vx	2	-28.329	0.871	860.321
			Max. Torque	14			2.345
L12	93.75 - 89.666	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.135	-2.471	1.554
			Max. Mx	8	-27.895	-984.581	-0.941
			Max. My	2	-27.955	1.076	976.537
			Max. Vy	8	28.973	-984.581	-0.941
			Max. Vx	2	-28.601	1.076	976.537
			Max. Torque	14			2.344
L13	89.666 - 89.416	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.195	-2.479	1.560
			Max. Mx	8	-27.960	-991.826	-0.956
			Max. My	2	-28.020	1.089	983.687
			Max. Vy	8	28.986	-991.826	-0.956
			Max. Vx	2	-28.603	1.089	983.687
			Max. Torque	14			2.342
L14	89.416 - 88.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.518	-2.515	1.589
			Max. Mx	8	-28.206	-1030.542	-1.032
			Max. My	2	-28.268	1.156	1021.877
			Max. Vy	8	29.113	-1030.542	-1.032
			Max. Vx	2	-28.710	1.156	1021.877
			Max. Torque	14			2.342
L15	88.083 - 87.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.597	-2.526	1.596
			Max. Mx	8	-28.293	-1037.821	-1.047
			Max. My	2	-28.354	1.169	1029.053
			Max. Vy	8	29.123	-1037.821	-1.047
			Max. Vx	2	-28.709	1.169	1029.053
			Max. Torque	14			2.342
L16	87.833 - 85.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.234	-2.595	1.647
			Max. Mx	8	-28.798	-1096.278	-1.161
			Max. My	2	-28.861	1.269	1086.646
			Max. Vy	8	29.330	-1096.278	-1.161
			Max. Vx	2	-28.882	1.269	1086.646
			Max. Torque	14			2.342
L17	85.833 - 85.583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.314	-2.605	1.655
			Max. Mx	8	-28.872	-1103.614	-1.175
			Max. My	2	-28.935	1.281	1093.868
			Max. Vy	8	29.352	-1103.614	-1.175

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	2	-28.894	1.281	1093.868
			Max. Torque	14			2.341
L18	85.583 - 84.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.660	-2.642	1.682
			Max. Mx	8	-29.142	-1135.466	-1.237
			Max. My	2	-29.206	1.335	1125.214
			Max. Vy	8	29.466	-1135.466	-1.237
			Max. Vx	2	-28.993	1.335	1125.214
			Max. Torque	14			2.341
L19	84.5 - 84.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-48.741	-2.652	1.689
			Max. Mx	8	-29.218	-1142.836	-1.251
			Max. My	2	-29.282	1.348	1132.464
			Max. Vy	8	29.486	-1142.836	-1.251
			Max. Vx	2	-29.003	1.348	1132.464
			Max. Torque	14			2.341
L20	84.25 - 79.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.331	-2.803	1.808
			Max. Mx	8	-30.532	-1291.491	-1.536
			Max. My	2	-30.599	1.598	1278.475
			Max. Vy	8	29.973	-1291.491	-1.536
			Max. Vx	2	-29.402	1.598	1278.475
			Max. Torque	14			2.341
L21	79.25 - 73.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.737	-2.847	1.841
			Max. Mx	8	-30.865	-1329.029	-1.607
			Max. My	2	-30.933	1.660	1315.279
			Max. Vy	8	30.093	-1329.029	-1.607
			Max. Vx	2	-29.501	1.660	1315.279
			Max. Torque	14			2.340
L22	73.75 - 72.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-53.940	-3.036	1.931
			Max. Mx	8	-33.452	-1489.244	-1.918
			Max. My	2	-33.523	1.927	1472.104
			Max. Vy	8	30.878	-1489.244	-1.918
			Max. Vx	2	-30.193	1.927	1472.104
			Max. Torque	14			2.378
L23	72.75 - 67.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-55.679	-3.163	2.035
			Max. Mx	8	-34.943	-1644.784	-2.196
			Max. My	2	-35.014	2.170	1623.983
			Max. Vy	8	31.341	-1644.784	-2.196
			Max. Vx	2	-30.572	2.170	1623.983
			Max. Torque	14			2.378
L24	67.75 - 63.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.369	-3.276	2.132
			Max. Mx	8	-36.361	-1792.037	-2.453
			Max. My	2	-36.432	2.396	1767.423
			Max. Vy	8	31.770	-1792.037	-2.453
			Max. Vx	2	-30.915	2.396	1767.423
			Max. Torque	14			2.377
L25	63.083 - 62.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.481	-3.285	2.139
			Max. Mx	8	-36.470	-1799.982	-2.467
			Max. My	2	-36.540	2.409	1775.152
			Max. Vy	8	31.785	-1799.982	-2.467
			Max. Vx	2	-30.919	2.409	1775.152
			Max. Torque	14			2.376
L26	62.833 - 57.833	Pole	Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-59.719	-3.410	2.251
			Max. Mx	8	-38.341	-1960.186	-2.741
			Max. My	2	-38.411	2.649	1930.789
			Max. Vy	8	32.292	-1960.186	-2.741
			Max. Vx	2	-31.335	2.649	1930.789
			Max. Torque	14			2.376
L27	57.833 - 52.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-61.979	-3.540	2.366
			Max. Mx	8	-40.250	-2122.849	-3.013
			Max. My	2	-40.319	2.888	2088.413
			Max. Vy	8	32.774	-2122.849	-3.013
			Max. Vx	2	-31.725	2.888	2088.413
			Max. Torque	14			2.375
L28	52.833 - 47.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-64.259	-3.672	2.483
			Max. Mx	8	-42.186	-2287.874	-3.283
			Max. My	2	-42.252	3.125	2247.951
			Max. Vy	8	33.237	-2287.874	-3.283
			Max. Vx	2	-32.102	3.125	2247.951
			Max. Torque	14			2.374
L29	47.833 - 42.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-64.412	-3.682	2.492
			Max. Mx	8	-42.326	-2298.947	-3.301
			Max. My	2	-42.391	3.141	2258.643
			Max. Vy	8	33.258	-2298.947	-3.301
			Max. Vx	2	-32.115	3.141	2258.643
			Max. Torque	14			2.374
L30	42.75 - 42.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.601	-3.817	2.611
			Max. Mx	8	-45.913	-2466.755	-3.571
			Max. My	2	-45.977	3.376	2420.513
			Max. Vy	8	33.842	-2466.755	-3.571
			Max. Vx	2	-32.613	3.376	2420.513
			Max. Torque	14			2.373
L31	42.5 - 37.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.051	-3.950	2.728
			Max. Mx	8	-48.024	-2637.035	-3.839
			Max. My	2	-48.084	3.612	2584.454
			Max. Vy	8	34.267	-2637.035	-3.839
			Max. Vx	2	-32.965	3.612	2584.454
			Max. Torque	14			2.373
L32	37.5 - 32.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.403	-4.080	2.842
			Max. Mx	8	-50.062	-2800.683	-4.092
			Max. My	2	-50.117	3.834	2741.724
			Max. Vy	8	34.647	-2800.683	-4.092
			Max. Vx	2	-33.274	3.834	2741.724
			Max. Torque	14			2.373
L33	32.75 - 32.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.534	-4.088	2.849
			Max. Mx	8	-50.190	-2809.346	-4.105
			Max. My	2	-50.244	3.845	2750.041
			Max. Vy	8	34.653	-2809.346	-4.105
			Max. Vx	2	-33.272	3.845	2750.041
			Max. Torque	14			2.372
L34	32.5 - 27.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.164	-4.226	2.971
			Max. Mx	8	-52.480	-2983.612	-4.370
			Max. My	2	-52.528	4.077	2917.212

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	8	35.048	-2983.612	-4.370
			Max. Vx	2	-33.599	4.077	2917.212
			Max. Torque	14			2.372
L35	27.5 - 22.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-78.814	-4.367	3.094
			Max. Mx	8	-54.808	-3159.722	-4.632
			Max. My	2	-54.850	4.306	3085.880
			Max. Vy	8	35.402	-3159.722	-4.632
			Max. Vx	2	-33.886	4.306	3085.880
			Max. Torque	14			2.372
L36	22.5 - 17.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-81.481	-4.510	3.218
			Max. Mx	8	-57.164	-3337.515	-4.891
			Max. My	2	-57.198	4.533	3255.913
			Max. Vy	8	35.722	-3337.515	-4.891
			Max. Vx	2	-34.146	4.533	3255.913
			Max. Torque	14			2.371
L37	17.5 - 12.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.163	-4.655	3.342
			Max. Mx	8	-59.549	-3516.801	-5.148
			Max. My	2	-59.574	4.758	3427.157
			Max. Vy	8	36.000	-3516.801	-5.148
			Max. Vx	2	-34.371	4.758	3427.157
			Max. Torque	14			2.371
L38	12.5 - 8.083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.566	-4.829	3.466
			Max. Mx	8	-61.679	-3676.312	-5.373
			Max. My	2	-61.695	4.954	3579.349
			Max. Vy	8	36.237	-3676.312	-5.373
			Max. Vx	2	-34.564	4.954	3579.349
			Max. Torque	14			2.371
L39	8.083 - 7.833	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.715	-4.841	3.474
			Max. Mx	8	-61.823	-3685.371	-5.386
			Max. My	2	-61.839	4.965	3587.988
			Max. Vy	8	36.232	-3685.371	-5.386
			Max. Vx	2	-34.556	4.965	3587.988
			Max. Torque	14			2.370
L40	7.833 - 6.417	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.559	-4.908	3.518
			Max. Mx	8	-62.560	-3736.747	-5.457
			Max. My	2	-62.574	5.027	3636.974
			Max. Vy	8	36.335	-3736.747	-5.457
			Max. Vx	2	-34.646	5.027	3636.974
			Max. Torque	14			2.370
L41	6.417 - 6.167	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.702	-4.920	3.526
			Max. Mx	8	-62.702	-3745.829	-5.470
			Max. My	2	-62.715	5.038	3645.632
			Max. Vy	8	36.324	-3745.829	-5.470
			Max. Vx	2	-34.631	5.038	3645.632
			Max. Torque	14			2.370
L42	6.167 - 1.167	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-90.533	-5.126	3.664
			Max. Mx	8	-65.248	-3928.157	-5.721
			Max. My	2	-65.251	5.257	3819.356
			Max. Vy	8	36.600	-3928.157	-5.721
			Max. Vx	2	-34.863	5.257	3819.356
			Max. Torque	14			2.370
L43	1.167 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-91.180	-5.166	3.692

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	8	-65.847	-3970.898	-5.779
			Max. My	2	-65.848	5.307	3860.057
			Max. Vy	8	36.663	-3970.898	-5.779
			Max. Vx	2	-34.916	5.307	3860.057
			Max. Torque	14			2.370

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	30	91.180	-8.934	-0.006
	Max. H_x	20	65.863	36.635	0.062
	Max. H_z	3	49.397	0.062	34.888
	Max. M_x	2	3860.057	0.062	34.888
	Max. M_z	8	3970.898	-36.635	-0.062
	Max. Torsion	14	2.370	-0.062	-34.888
	Min. Vert	17	49.397	17.447	-30.183
	Min. H_x	8	65.863	-36.635	-0.062
	Min. H_z	15	49.397	-0.062	-34.888
	Min. M_x	14	-3856.291	-0.062	-34.888
	Min. M_z	20	-3966.121	36.635	0.062
	Min. Torsion	2	-2.366	0.062	34.888

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	54.886	0.000	0.000	-1.472	-1.880	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	65.863	-0.062	-34.888	-3860.057	5.307	2.366
0.9 Dead+1.0 Wind 0 deg - No Ice	49.397	-0.062	-34.888	-3805.576	5.819	2.361
1.2 Dead+1.0 Wind 30 deg - No Ice	65.863	17.447	-30.183	-3339.346	-1931.475	2.109
0.9 Dead+1.0 Wind 30 deg - No Ice	49.397	17.447	-30.183	-3292.147	-1903.866	2.105
1.2 Dead+1.0 Wind 60 deg - No Ice	65.863	30.280	-17.391	-1924.339	-3351.347	1.282
0.9 Dead+1.0 Wind 60 deg - No Ice	49.397	30.280	-17.391	-1896.939	-3303.872	1.282
1.2 Dead+1.0 Wind 90 deg - No Ice	65.863	36.635	0.062	5.779	-3970.898	0.107
0.9 Dead+1.0 Wind 90 deg - No Ice	49.397	36.635	0.062	6.171	-3915.255	0.110
1.2 Dead+1.0 Wind 120 deg - No Ice	65.863	30.342	17.498	1933.827	-3358.992	-1.098
0.9 Dead+1.0 Wind 120 deg - No Ice	49.397	30.342	17.498	1907.238	-3311.410	-1.092
1.2 Dead+1.0 Wind 150 deg - No Ice	65.863	17.584	30.297	3347.193	-1947.049	-2.005
0.9 Dead+1.0 Wind 150 deg -	49.397	17.584	30.297	3300.844	-1919.232	-1.999

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
No Ice						
1.2 Dead+1.0 Wind 180 deg - No Ice	65.863	0.062	34.888	3856.291	-10.037	-2.370
0.9 Dead+1.0 Wind 180 deg - No Ice	49.397	0.062	34.888	3802.801	-9.311	-2.365
1.2 Dead+1.0 Wind 210 deg - No Ice	65.863	-17.447	30.183	3335.555	1926.742	-2.099
0.9 Dead+1.0 Wind 210 deg - No Ice	49.397	-17.447	30.183	3289.354	1900.371	-2.095
1.2 Dead+1.0 Wind 240 deg - No Ice	65.863	-30.280	17.391	1920.538	3346.590	-1.268
0.9 Dead+1.0 Wind 240 deg - No Ice	49.397	-30.280	17.391	1894.139	3300.360	-1.268
1.2 Dead+1.0 Wind 270 deg - No Ice	65.863	-36.635	-0.062	-9.564	3966.121	-0.103
0.9 Dead+1.0 Wind 270 deg - No Ice	49.397	-36.635	-0.062	-8.959	3911.728	-0.106
1.2 Dead+1.0 Wind 300 deg - No Ice	65.863	-30.342	-17.498	-1937.586	3354.218	1.088
0.9 Dead+1.0 Wind 300 deg - No Ice	49.397	-30.342	-17.498	-1910.008	3307.886	1.082
1.2 Dead+1.0 Wind 330 deg - No Ice	65.863	-17.584	-30.297	-3350.942	1942.299	1.991
0.9 Dead+1.0 Wind 330 deg - No Ice	49.397	-17.584	-30.297	-3303.607	1915.726	1.985
1.2 Dead+1.0 Ice+1.0 Temp	91.180	0.000	-0.000	-3.692	-5.166	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	91.180	-0.006	-8.920	-999.044	-4.615	0.503
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	91.180	4.462	-7.722	-865.345	-503.127	0.441
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	91.180	7.734	-4.455	-500.801	-868.260	0.261
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	91.180	8.934	0.006	-3.090	-1002.175	0.011
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	91.180	7.740	4.465	494.425	-868.991	-0.242
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	91.180	4.472	7.728	858.436	-504.393	-0.430
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	91.180	0.006	8.920	991.406	-6.076	-0.502
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	91.180	-4.462	7.722	857.705	492.436	-0.440
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	91.180	-7.734	4.455	493.159	857.567	-0.260
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	91.180	-8.934	-0.006	-4.551	991.481	-0.010
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	91.180	-7.740	-4.465	-502.065	858.296	0.242
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	91.180	-4.472	-7.728	-866.074	493.700	0.430
Dead+Wind 0 deg - Service	54.886	-0.014	-7.953	-874.013	-0.244	0.545
Dead+Wind 30 deg - Service	54.886	3.977	-6.880	-756.260	-438.209	0.481
Dead+Wind 60 deg - Service	54.886	6.902	-3.964	-436.285	-759.286	0.289
Dead+Wind 90 deg - Service	54.886	8.350	0.014	0.174	-899.471	0.018
Dead+Wind 120 deg - Service	54.886	6.916	3.988	436.168	-761.019	-0.257
Dead+Wind 150 deg - Service	54.886	4.008	6.906	755.777	-441.733	-0.463
Dead+Wind 180 deg - Service	54.886	0.014	7.953	870.893	-3.712	-0.545
Dead+Wind 210 deg - Service	54.886	-3.977	6.880	753.139	434.252	-0.481
Dead+Wind 240 deg - Service	54.886	-6.902	3.964	433.164	755.328	-0.288
Dead+Wind 270 deg - Service	54.886	-8.350	-0.014	-3.294	895.512	-0.018
Dead+Wind 300 deg - Service	54.886	-6.916	-3.988	-439.287	757.061	0.256

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 330 deg - Service	54.886	-4.008	-6.906	-758.896	437.776	0.462

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-54.886	0.000	0.000	54.886	0.000	0.000%
2	-0.062	-65.863	-34.888	0.062	65.863	34.888	0.000%
3	-0.062	-49.397	-34.888	0.062	49.397	34.888	0.000%
4	17.447	-65.863	-30.183	-17.447	65.863	30.183	0.000%
5	17.447	-49.397	-30.183	-17.447	49.397	30.183	0.000%
6	30.280	-65.863	-17.391	-30.280	65.863	17.391	0.000%
7	30.280	-49.397	-17.391	-30.280	49.397	17.391	0.000%
8	36.635	-65.863	0.062	-36.635	65.863	-0.062	0.000%
9	36.635	-49.397	0.062	-36.635	49.397	-0.062	0.000%
10	30.342	-65.863	17.498	-30.342	65.863	-17.498	0.000%
11	30.342	-49.397	17.498	-30.342	49.397	-17.498	0.000%
12	17.584	-65.863	30.297	-17.584	65.863	-30.297	0.000%
13	17.584	-49.397	30.297	-17.584	49.397	-30.297	0.000%
14	0.062	-65.863	34.888	-0.062	65.863	-34.888	0.000%
15	0.062	-49.397	34.888	-0.062	49.397	-34.888	0.000%
16	-17.447	-65.863	30.183	17.447	65.863	-30.183	0.000%
17	-17.447	-49.397	30.183	17.447	49.397	-30.183	0.000%
18	-30.280	-65.863	17.391	30.280	65.863	-17.391	0.000%
19	-30.280	-49.397	17.391	30.280	49.397	-17.391	0.000%
20	-36.635	-65.863	-0.062	36.635	65.863	0.062	0.000%
21	-36.635	-49.397	-0.062	36.635	49.397	0.062	0.000%
22	-30.342	-65.863	-17.498	30.342	65.863	17.498	0.000%
23	-30.342	-49.397	-17.498	30.342	49.397	17.498	0.000%
24	-17.584	-65.863	-30.297	17.584	65.863	30.297	0.000%
25	-17.584	-49.397	-30.297	17.584	49.397	30.297	0.000%
26	0.000	-91.180	0.000	-0.000	91.180	0.000	0.000%
27	-0.006	-91.180	-8.920	0.006	91.180	8.920	0.000%
28	4.462	-91.180	-7.722	-4.462	91.180	7.722	0.000%
29	7.734	-91.180	-4.455	-7.734	91.180	4.455	0.000%
30	8.934	-91.180	0.006	-8.934	91.180	-0.006	0.000%
31	7.740	-91.180	4.465	-7.740	91.180	-4.465	0.000%
32	4.472	-91.180	7.728	-4.472	91.180	-7.728	0.000%
33	0.006	-91.180	8.920	-0.006	91.180	-8.920	0.000%
34	-4.462	-91.180	7.722	4.462	91.180	-7.722	0.000%
35	-7.734	-91.180	4.455	7.734	91.180	-4.455	0.000%
36	-8.934	-91.180	-0.006	8.934	91.180	0.006	0.000%
37	-7.740	-91.180	-4.465	7.740	91.180	4.465	0.000%
38	-4.472	-91.180	-7.728	4.472	91.180	7.728	0.000%
39	-0.014	-54.886	-7.953	0.014	54.886	7.953	0.000%
40	3.977	-54.886	-6.880	-3.977	54.886	6.880	0.000%
41	6.902	-54.886	-3.964	-6.902	54.886	3.964	0.000%
42	8.350	-54.886	0.014	-8.350	54.886	-0.014	0.000%
43	6.916	-54.886	3.988	-6.916	54.886	-3.988	0.000%
44	4.008	-54.886	6.906	-4.008	54.886	-6.906	0.000%
45	0.014	-54.886	7.953	-0.014	54.886	-7.953	0.000%
46	-3.977	-54.886	6.880	3.977	54.886	-6.880	0.000%
47	-6.902	-54.886	3.964	6.902	54.886	-3.964	0.000%
48	-8.350	-54.886	-0.014	8.350	54.886	0.014	0.000%
49	-6.916	-54.886	-3.988	6.916	54.886	3.988	0.000%
50	-4.008	-54.886	-6.906	4.008	54.886	6.906	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	6	0.00000001	0.00010508
3	Yes	5	0.00000001	0.00074304
4	Yes	7	0.00000001	0.00012846
5	Yes	6	0.00000001	0.00065604
6	Yes	7	0.00000001	0.00012255
7	Yes	6	0.00000001	0.00062442
8	Yes	5	0.00000001	0.00044996
9	Yes	5	0.00000001	0.00017341
10	Yes	7	0.00000001	0.00012359
11	Yes	6	0.00000001	0.00062990
12	Yes	7	0.00000001	0.00012923
13	Yes	6	0.00000001	0.00065978
14	Yes	6	0.00000001	0.00012373
15	Yes	5	0.00000001	0.00087516
16	Yes	7	0.00000001	0.00012068
17	Yes	6	0.00000001	0.00061543
18	Yes	7	0.00000001	0.00012647
19	Yes	6	0.00000001	0.00064603
20	Yes	5	0.00000001	0.00043451
21	Yes	5	0.00000001	0.00015861
22	Yes	7	0.00000001	0.00012742
23	Yes	6	0.00000001	0.00065015
24	Yes	7	0.00000001	0.00012224
25	Yes	6	0.00000001	0.00062284
26	Yes	4	0.00000001	0.00041394
27	Yes	6	0.00000001	0.00074502
28	Yes	6	0.00000001	0.00091085
29	Yes	6	0.00000001	0.00090609
30	Yes	6	0.00000001	0.00074705
31	Yes	6	0.00000001	0.00089964
32	Yes	6	0.00000001	0.00090411
33	Yes	6	0.00000001	0.00073810
34	Yes	6	0.00000001	0.00088387
35	Yes	6	0.00000001	0.00088879
36	Yes	6	0.00000001	0.00073638
37	Yes	6	0.00000001	0.00089867
38	Yes	6	0.00000001	0.00089386
39	Yes	5	0.00000001	0.00011324
40	Yes	5	0.00000001	0.00044018
41	Yes	5	0.00000001	0.00039007
42	Yes	5	0.00000001	0.00008062
43	Yes	5	0.00000001	0.00039168
44	Yes	5	0.00000001	0.00044043
45	Yes	5	0.00000001	0.00011500
46	Yes	5	0.00000001	0.00037376
47	Yes	5	0.00000001	0.00041781
48	Yes	5	0.00000001	0.00008020
49	Yes	5	0.00000001	0.00042418
50	Yes	5	0.00000001	0.00038260

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147 - 142	23.255	42	1.404	0.003
L2	142 - 137	21.786	42	1.401	0.003
L3	137 - 132	20.324	42	1.392	0.003
L4	132 - 127	18.875	42	1.375	0.003
L5	127 - 122	17.448	42	1.349	0.003
L6	122 - 117	16.053	42	1.313	0.003
L7	117 - 112	14.701	42	1.268	0.003
L8	112 - 105	13.400	42	1.214	0.003
L9	108.75 - 103.75	12.588	42	1.173	0.002
L10	103.75 - 98.75	11.377	42	1.133	0.002
L11	98.75 - 93.75	10.225	42	1.065	0.002
L12	93.75 - 89.666	9.150	42	0.988	0.002
L13	89.666 - 89.416	8.334	42	0.920	0.001
L14	89.416 - 88.083	8.285	42	0.916	0.001
L15	88.083 - 87.833	8.033	42	0.893	0.001
L16	87.833 - 85.833	7.986	42	0.890	0.001
L17	85.833 - 85.583	7.618	42	0.869	0.001
L18	85.583 - 84.5	7.572	42	0.866	0.001
L19	84.5 - 84.25	7.377	42	0.854	0.001
L20	84.25 - 79.25	7.333	42	0.851	0.001
L21	79.25 - 73.75	6.475	42	0.787	0.001
L22	78 - 72.75	6.271	42	0.771	0.001
L23	72.75 - 67.75	5.442	42	0.733	0.001
L24	67.75 - 63.083	4.706	42	0.673	0.001
L25	63.083 - 62.833	4.077	42	0.614	0.001
L26	62.833 - 57.833	4.044	42	0.612	0.001
L27	57.833 - 52.833	3.430	42	0.561	0.001
L28	52.833 - 47.833	2.870	42	0.509	0.001
L29	47.833 - 42.75	2.364	42	0.457	0.000
L30	47.5 - 42.5	2.332	42	0.453	0.000
L31	42.5 - 37.5	1.871	42	0.426	0.000
L32	37.5 - 32.75	1.452	42	0.374	0.000
L33	32.75 - 32.5	1.105	42	0.324	0.000
L34	32.5 - 27.5	1.088	42	0.322	0.000
L35	27.5 - 22.5	0.777	42	0.272	0.000
L36	22.5 - 17.5	0.518	42	0.222	0.000
L37	17.5 - 12.5	0.312	42	0.172	0.000
L38	12.5 - 8.083	0.158	42	0.122	0.000
L39	8.083 - 7.833	0.066	42	0.077	0.000
L40	7.833 - 6.417	0.062	42	0.075	0.000
L41	6.417 - 6.167	0.041	42	0.062	0.000
L42	6.167 - 1.167	0.038	42	0.059	0.000
L43	1.167 - 0	0.001	42	0.011	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
147.000	APXVSPP18-C-A20 w/ Mount Pipe	42	23.255	1.404	0.003	45787
136.000	AIR6449 B41_T-MOBILE w/ Mount Pipe	42	20.033	1.389	0.003	20294
126.000	MX08FRO665-21 w/ Mount Pipe	42	17.166	1.342	0.003	8818
118.000	RRFDC-3315-PF-48	42	14.968	1.278	0.003	6077

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
115.000	(2) LPA-80080/4CF w/ Mount Pipe	42	14.174	1.249	0.003	5252
106.000	DMP65R-BU4D w/ Mount Pipe	42	11.915	1.151	0.002	5820
76.000	OG-860/1920/GPS-A	42	5.950	0.754	0.001	6602

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	147 - 142	102.780	8	6.216	0.013
L2	142 - 137	96.289	8	6.201	0.013
L3	137 - 132	89.827	8	6.161	0.013
L4	132 - 127	83.423	8	6.086	0.013
L5	127 - 122	77.118	8	5.970	0.013
L6	122 - 117	70.955	8	5.814	0.013
L7	117 - 112	64.978	8	5.614	0.013
L8	112 - 105	59.230	8	5.374	0.012
L9	108.75 - 103.75	55.638	8	5.192	0.011
L10	103.75 - 98.75	50.285	8	5.016	0.010
L11	98.75 - 93.75	45.195	8	4.711	0.008
L12	93.75 - 89.666	40.442	8	4.371	0.007
L13	89.666 - 89.416	36.834	8	4.071	0.006
L14	89.416 - 88.083	36.621	8	4.052	0.006
L15	88.083 - 87.833	35.505	8	3.951	0.006
L16	87.833 - 85.833	35.298	8	3.939	0.006
L17	85.833 - 85.583	33.670	8	3.842	0.005
L18	85.583 - 84.5	33.469	8	3.830	0.005
L19	84.5 - 84.25	32.607	8	3.777	0.005
L20	84.25 - 79.25	32.410	8	3.764	0.005
L21	79.25 - 73.75	28.617	8	3.482	0.005
L22	78 - 72.75	27.716	8	3.410	0.004
L23	72.75 - 67.75	24.049	8	3.241	0.004
L24	67.75 - 63.083	20.796	8	2.975	0.004
L25	63.083 - 62.833	18.015	8	2.716	0.003
L26	62.833 - 57.833	17.873	8	2.705	0.003
L27	57.833 - 52.833	15.158	8	2.482	0.003
L28	52.833 - 47.833	12.680	8	2.252	0.002
L29	47.833 - 42.75	10.444	8	2.020	0.002
L30	47.5 - 42.5	10.303	8	2.004	0.002
L31	42.5 - 37.5	8.265	8	1.883	0.002
L32	37.5 - 32.75	6.415	8	1.652	0.002
L33	32.75 - 32.5	4.881	8	1.432	0.001
L34	32.5 - 27.5	4.806	8	1.422	0.001
L35	27.5 - 22.5	3.433	8	1.202	0.001
L36	22.5 - 17.5	2.290	8	0.981	0.001
L37	17.5 - 12.5	1.378	8	0.761	0.001
L38	12.5 - 8.083	0.698	8	0.539	0.000
L39	8.083 - 7.833	0.290	8	0.342	0.000
L40	7.833 - 6.417	0.273	8	0.332	0.000
L41	6.417 - 6.167	0.183	8	0.273	0.000
L42	6.167 - 1.167	0.169	8	0.263	0.000
L43	1.167 - 0	0.006	8	0.049	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
147.000	APXVSPP18-C-A20 w/ Mount Pipe	8	102.780	6.216	0.014	10519
136.000	AIR6449 B41_T-MOBILE w/ Mount Pipe	8	88.540	6.149	0.014	4664
126.000	MX08FRO665-21 w/ Mount Pipe	8	75.873	5.942	0.014	2027
118.000	RRFDC-3315-PF-48	8	66.157	5.657	0.014	1395
115.000	(2) LPA-80080/4CF w/ Mount Pipe	8	62.648	5.526	0.013	1206
106.000	DMP65R-BU4D w/ Mount Pipe	8	52.667	5.095	0.010	1334
76.000	OG-860/1920/GPS-A	8	26.295	3.333	0.004	1500

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	147 - 142 (1)	TP22.85x22x0.25	5.000	0.000	0.0	17.933	-4.206	968.393	0.004
L2	142 - 137 (2)	TP23.7x22.85x0.25	5.000	0.000	0.0	18.608	-4.565	1004.820	0.005
L3	137 - 132 (3)	TP24.55x23.7x0.25	5.000	0.000	0.0	19.282	-9.150	1041.250	0.009
L4	132 - 127 (4)	TP25.4x24.55x0.25	5.000	0.000	0.0	19.957	-9.598	1077.670	0.009
L5	127 - 122 (5)	TP26.251x25.4x0.25	5.000	0.000	0.0	20.632	-12.946	1114.100	0.012
L6	122 - 117 (6)	TP27.101x26.251x0.25	5.000	0.000	0.0	21.306	-13.490	1150.530	0.012
L7	117 - 112 (7)	TP27.951x27.101x0.25	5.000	0.000	0.0	21.981	-18.236	1186.950	0.015
L8	112 - 105 (8)	TP29.141x27.951x0.25	7.000	0.000	0.0	22.419	-18.658	1210.630	0.015
L9	105 - 103.75 (9)	TP28.854x28.003x0.313	5.000	0.000	0.0	28.309	-25.218	1528.700	0.016
L10	103.75 - 98.75 (10)	TP29.704x28.854x0.313	5.000	0.000	0.0	29.153	-26.135	1574.240	0.017
L11	98.75 - 93.75 (11)	TP30.554x29.704x0.313	5.000	0.000	0.0	29.996	-27.090	1619.780	0.017
L12	93.75 - 89.666 (12)	TP31.249x30.554x0.313	4.084	0.000	0.0	30.685	-27.895	1656.970	0.017
L13	89.666 - 89.416 (13)	TP31.291x31.249x0.313	0.250	0.000	0.0	30.727	-27.960	1659.250	0.017
L14	89.416 - 88.083 (14)	TP31.518x31.291x0.313	1.333	0.000	0.0	30.952	-28.206	1671.390	0.017
L15	88.083 - 87.833 (15)	TP31.56x31.518x0.513	0.250	0.000	0.0	50.505	-28.293	2727.250	0.010
L16	87.833 - 85.833 (16)	TP31.9x31.56x0.513	2.000	0.000	0.0	51.058	-28.798	2757.120	0.010
L17	85.833 - 85.583 (17)	TP31.943x31.9x0.513	0.250	0.000	0.0	51.127	-28.872	2760.860	0.010
L18	85.583 - 84.5 (18)	TP32.127x31.943x0.513	1.083	0.000	0.0	51.426	-29.142	2777.030	0.010
L19	84.5 - 84.25 (19)	TP32.17x32.127x0.475	0.250	0.000	0.0	47.784	-29.218	2580.350	0.011
L20	84.25 - 79.25 (20)	TP33.02x32.17x0.463	5.000	0.000	0.0	47.793	-30.532	2580.830	0.012
L21	79.25 - 73.75 (21)	TP33.955x33.02x0.463	5.500	0.000	0.0	48.105	-30.865	2597.680	0.012
L22	73.75 - 72.75	TP33.5x32.607x0.563	5.250	0.000	0.0	58.806	-33.452	3175.510	0.011

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L23	72.75 - 67.75 (23)	TP34.35x33.5x0.563	5.000	0.000	0.0	60.324	-34.943	3257.480	0.011
L24	67.75 - 63.083 (24)	TP35.144x34.35x0.55	4.667	0.000	0.0	60.390	-36.361	3261.070	0.011
L25	63.083 - 62.833 (25)	TP35.186x35.144x0.713	0.250	0.000	0.0	77.961	-36.470	4209.920	0.009
L26	62.833 - 57.833 (26)	TP36.036x35.186x0.7	5.000	0.000	0.0	78.510	-38.341	4239.560	0.009
L27	57.833 - 52.833 (27)	TP36.887x36.036x0.688	5.000	0.000	0.0	78.991	-40.250	4265.510	0.009
L28	52.833 - 47.833 (28)	TP37.737x36.887x0.688	5.000	0.000	0.0	80.846	-42.186	4365.690	0.010
L29	47.833 - 42.75 (29)	TP38.601x37.737x0.675	5.083	0.000	0.0	79.524	-42.326	4294.310	0.010
L30	42.75 - 42.5 (30)	TP37.894x37.043x0.75	5.000	0.000	0.0	88.420	-45.913	4774.690	0.010
L31	42.5 - 37.5 (31)	TP38.744x37.894x0.738	5.000	0.000	0.0	88.966	-48.024	4804.160	0.010
L32	37.5 - 32.75 (32)	TP39.551x38.744x0.738	4.750	0.000	0.0	90.856	-50.063	4906.250	0.010
L33	32.75 - 32.5 (33)	TP39.594x39.551x0.788	0.250	0.000	0.0	96.997	-50.190	5237.860	0.010
L34	32.5 - 27.5 (34)	TP40.444x39.594x0.775	5.000	0.000	0.0	97.580	-52.480	5269.310	0.010
L35	27.5 - 22.5 (35)	TP41.294x40.444x0.763	5.000	0.000	0.0	98.094	-54.809	5297.070	0.010
L36	22.5 - 17.5 (36)	TP42.144x41.294x0.763	5.000	0.000	0.0	100.151	-57.164	5408.180	0.011
L37	17.5 - 12.5 (37)	TP42.995x42.144x0.75	5.000	0.000	0.0	100.563	-59.549	5430.410	0.011
L38	12.5 - 8.083 (38)	TP43.746x42.995x0.738	4.417	0.000	0.0	100.674	-61.679	5436.420	0.011
L39	8.083 - 7.833 (39)	TP43.788x43.746x0.8	0.250	0.000	0.0	109.155	-61.823	5894.390	0.010
L40	7.833 - 6.417 (40)	TP44.029x43.788x0.788	1.416	0.000	0.0	108.083	-62.560	5836.480	0.011
L41	6.417 - 6.167 (41)	TP44.071x44.029x0.775	0.250	0.000	0.0	106.503	-62.703	5751.140	0.011
L42	6.167 - 1.167 (42)	TP44.922x44.071x0.763	5.000	0.000	0.0	106.873	-65.248	5771.120	0.011
L43	1.167 - 0 (43)	TP45.12x44.922x0.763	1.167	0.000	0.0	107.353	-65.847	5797.060	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	147 - 142 (1)	TP22.85x22x0.25	22.923	569.745	0.040	0.000	569.745	0.000
L2	142 - 137 (2)	TP23.7x22.85x0.25	47.843	613.658	0.078	0.000	613.658	0.000
L3	137 - 132 (3)	TP24.55x23.7x0.25	97.571	659.200	0.148	0.000	659.200	0.000
L4	132 - 127 (4)	TP25.4x24.55x0.25	151.359	703.273	0.215	0.000	703.273	0.000
L5	127 - 122 (5)	TP26.251x25.4x0.25	221.829	745.674	0.297	0.000	745.674	0.000
L6	122 - 117 (6)	TP27.101x26.251x0.25	298.465	788.872	0.378	0.000	788.872	0.000
L7	117 - 112 (7)	TP27.951x27.101x0.25	396.712	832.827	0.476	0.000	832.827	0.000
L8	112 - 105 (8)	TP29.141x27.951x0.25	465.580	861.783	0.540	0.000	861.783	0.000
L9	105 - 103.75 (9)	TP28.854x28.003x0.313	583.916	1135.950	0.514	0.000	1135.950	0.000
L10	103.75 - 98.75 (10)	TP29.704x28.854x0.313	724.458	1205.017	0.601	0.000	1205.017	0.000
L11	98.75 - 93.75	TP30.554x29.704x0.313	866.883	1276.117	0.679	0.000	1276.117	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L12	93.75 - 89.666 (11)	TP31.249x30.554x0.313	984.583	1335.017	0.738	0.000	1335.017	0.000
L13	89.666 - 89.416 (12)	TP31.291x31.249x0.313	991.825	1338.267	0.741	0.000	1338.267	0.000
L14	89.416 - 88.083 (13)	TP31.518x31.291x0.313	1030.542	1355.650	0.760	0.000	1355.650	0.000
L15	88.083 - 87.833 (14)	TP31.56x31.518x0.513	1037.825	2192.508	0.473	0.000	2192.508	0.000
L16	87.833 - 85.833 (15)	TP31.9x31.56x0.513	1096.275	2241.192	0.489	0.000	2241.192	0.000
L17	85.833 - 85.583 (16)	TP31.943x31.9x0.513	1103.617	2247.317	0.491	0.000	2247.317	0.000
L18	85.583 - 84.5 (17)	TP32.127x31.943x0.513	1135.467	2273.942	0.499	0.000	2273.942	0.000
L19	84.5 - 84.25 (18)	TP32.17x32.127x0.475	1142.833	2120.792	0.539	0.000	2120.792	0.000
L20	84.25 - 79.25 (19)	TP33.02x32.17x0.463	1291.492	2180.608	0.592	0.000	2180.608	0.000
L21	79.25 - 73.75 (20)	TP33.955x33.02x0.463	1329.033	2209.375	0.602	0.000	2209.375	0.000
L22	73.75 - 72.75 (21)	TP33.5x32.607x0.563	1489.242	2706.733	0.550	0.000	2706.733	0.000
L23	72.75 - 67.75 (22)	TP34.35x33.5x0.563	1644.783	2849.475	0.577	0.000	2849.475	0.000
L24	67.75 - 63.083 (23)	TP35.144x34.35x0.55	1792.042	2922.825	0.613	0.000	2922.825	0.000
L25	63.083 - 62.833 (24)	TP35.186x35.144x0.713	1799.983	3742.600	0.481	0.000	3742.600	0.000
L26	62.833 - 57.833 (25)	TP36.036x35.186x0.7	1960.192	3866.517	0.507	0.000	3866.517	0.000
L27	57.833 - 52.833 (26)	TP36.887x36.036x0.688	2122.850	3988.350	0.532	0.000	3988.350	0.000
L28	52.833 - 47.833 (27)	TP37.737x36.887x0.688	2287.875	4179.675	0.547	0.000	4179.675	0.000
L29	47.833 - 42.75 (28)	TP38.601x37.737x0.675	2298.950	4120.508	0.558	0.000	4120.508	0.000
L30	42.75 - 42.5 (29)	TP37.894x37.043x0.75	2466.758	4575.542	0.539	0.000	4575.542	0.000
L31	42.5 - 37.5 (30)	TP38.744x37.894x0.738	2637.042	4714.342	0.559	0.000	4714.342	0.000
L32	37.5 - 32.75 (31)	TP39.551x38.744x0.738	2800.683	4918.783	0.569	0.000	4918.783	0.000
L33	32.75 - 32.5 (32)	TP39.594x39.551x0.788	2809.350	5243.583	0.536	0.000	5243.583	0.000
L34	32.5 - 27.5 (33)	TP40.444x39.594x0.775	2983.617	5396.342	0.553	0.000	5396.342	0.000
L35	27.5 - 22.5 (34)	TP41.294x40.444x0.763	3159.725	5546.675	0.570	0.000	5546.675	0.000
L36	22.5 - 17.5 (35)	TP42.144x41.294x0.763	3337.517	5783.991	0.577	0.000	5783.991	0.000
L37	17.5 - 12.5 (36)	TP42.995x42.144x0.75	3516.808	5932.767	0.593	0.000	5932.767	0.000
L38	12.5 - 8.083 (37)	TP43.746x42.995x0.738	3676.317	6050.283	0.608	0.000	6050.283	0.000
L39	8.083 - 7.833 (38)	TP43.788x43.746x0.8	3685.375	6547.508	0.563	0.000	6547.508	0.000
L40	7.833 - 6.417 (39)	TP44.029x43.788x0.788	3736.750	6523.917	0.573	0.000	6523.917	0.000
L41	6.417 - 6.167 (40)	TP44.071x44.029x0.775	3745.833	6438.683	0.582	0.000	6438.683	0.000
L42	6.167 - 1.167 (41)	TP44.922x44.071x0.763	3928.158	6593.891	0.596	0.000	6593.891	0.000
L43	1.167 - 0 (42)	TP45.12x44.922x0.763	3970.900	6653.783	0.597	0.000	6653.783	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	147 - 142 (1)	TP22.85x22x0.25	4.783	290.518	0.016	0.000	574.994	0.000
L2	142 - 137 (2)	TP23.7x22.85x0.25	5.187	301.446	0.017	0.000	619.065	0.000
L3	137 - 132 (3)	TP24.55x23.7x0.25	10.544	312.374	0.034	0.000	664.763	0.000
L4	132 - 127 (4)	TP25.4x24.55x0.25	10.960	323.302	0.034	0.000	712.089	0.000
L5	127 - 122 (5)	TP26.251x25.4x0.25	15.034	334.230	0.045	0.250	761.042	0.000
L6	122 - 117 (6)	TP27.101x26.251x0.25	15.747	345.158	0.046	0.367	811.622	0.000
L7	117 - 112 (7)	TP27.951x27.101x0.25	21.052	356.086	0.059	0.422	863.825	0.000
L8	112 - 105 (8)	TP29.141x27.951x0.25	21.323	363.189	0.059	0.422	898.633	0.000
L9	105 - 103.75 (9)	TP28.854x28.003x0.313	27.917	458.610	0.061	0.058	1146.292	0.000
L10	103.75 - 98.75 (10)	TP29.704x28.854x0.313	28.304	472.271	0.060	0.058	1215.600	0.000
L11	98.75 - 93.75 (11)	TP30.554x29.704x0.313	28.672	485.933	0.059	0.058	1286.950	0.000
L12	93.75 - 89.666 (12)	TP31.249x30.554x0.313	28.973	497.092	0.058	0.058	1346.733	0.000
L13	89.666 - 89.416 (13)	TP31.291x31.249x0.313	28.986	497.775	0.058	0.058	1350.442	0.000
L14	89.416 - 88.083 (14)	TP31.518x31.291x0.313	29.113	501.418	0.058	0.058	1370.275	0.000
L15	88.083 - 87.833 (15)	TP31.56x31.518x0.513	29.123	818.175	0.036	0.058	2224.625	0.000
L16	87.833 - 85.833 (16)	TP31.9x31.56x0.513	29.330	827.137	0.035	0.058	2273.625	0.000
L17	85.833 - 85.583 (17)	TP31.943x31.9x0.513	29.352	828.257	0.035	0.058	2279.783	0.000
L18	85.583 - 84.5 (18)	TP32.127x31.943x0.513	29.466	833.110	0.035	0.058	2306.583	0.000
L19	84.5 - 84.25 (19)	TP32.17x32.127x0.475	29.486	774.105	0.038	0.058	2148.642	0.000
L20	84.25 - 79.25 (20)	TP33.02x32.17x0.463	29.973	774.250	0.039	0.058	2207.542	0.000
L21	79.25 - 73.75 (21)	TP33.955x33.02x0.463	30.093	779.305	0.039	0.058	2236.458	0.000
L22	73.75 - 72.75 (22)	TP33.5x32.607x0.563	30.878	952.653	0.032	0.107	2747.925	0.000
L23	72.75 - 67.75 (23)	TP34.35x33.5x0.563	31.341	977.243	0.032	0.107	2891.617	0.000
L24	67.75 - 63.083 (24)	TP35.144x34.35x0.55	31.770	978.322	0.032	0.107	2963.867	0.000
L25	63.083 - 62.833 (25)	TP35.186x35.144x0.713	31.785	1262.980	0.025	0.107	3812.967	0.000
L26	62.833 - 57.833 (26)	TP36.036x35.186x0.7	32.292	1271.870	0.025	0.107	3935.900	0.000
L27	57.833 - 52.833 (27)	TP36.887x36.036x0.688	32.774	1279.650	0.026	0.107	4056.667	0.000
L28	52.833 - 47.833 (28)	TP37.737x36.887x0.688	33.237	1309.710	0.025	0.107	4249.450	0.000
L29	47.833 - 42.75 (29)	TP38.601x37.737x0.675	33.258	1288.290	0.026	0.107	4187.767	0.000
L30	42.75 - 42.5 (30)	TP37.894x37.043x0.75	33.842	1432.410	0.024	0.107	4659.392	0.000
L31	42.5 - 37.5 (31)	TP38.744x37.894x0.738	34.267	1441.250	0.024	0.107	4797.033	0.000
L32	37.5 - 32.75 (32)	TP39.551x38.744x0.738	34.648	1471.870	0.024	0.107	5003.083	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L33	32.75 - 32.5 (33)	TP39.594x39.551x0.788	34.653	1571.360	0.022	0.107	5340.208	0.000
L34	32.5 - 27.5 (34)	TP40.444x39.594x0.775	35.048	1580.790	0.022	0.107	5491.700	0.000
L35	27.5 - 22.5 (35)	TP41.294x40.444x0.763	35.402	1589.120	0.022	0.107	5640.683	0.000
L36	22.5 - 17.5 (36)	TP42.144x41.294x0.763	35.722	1622.450	0.022	0.107	5879.800	0.000
L37	17.5 - 12.5 (37)	TP42.995x42.144x0.75	36.001	1629.120	0.022	0.107	6027.050	0.000
L38	12.5 - 8.083 (38)	TP43.746x42.995x0.738	36.237	1630.930	0.022	0.107	6142.775	0.000
L39	8.083 - 7.833 (39)	TP43.788x43.746x0.8	36.232	1768.320	0.020	0.107	6657.158	0.000
L40	7.833 - 6.417 (40)	TP44.029x43.788x0.788	36.335	1750.940	0.021	0.107	6630.583	0.000
L41	6.417 - 6.167 (41)	TP44.071x44.029x0.775	36.324	1725.340	0.021	0.107	6541.950	0.000
L42	6.167 - 1.167 (42)	TP44.922x44.071x0.763	36.600	1731.340	0.021	0.107	6695.475	0.000
L43	1.167 - 0 (43)	TP45.12x44.922x0.763	36.663	1739.120	0.021	0.107	6755.783	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	147 - 142 (1)	0.004	0.040	0.000	0.016	0.000	0.045 ✔	1.050	4.8.2 ✔
L2	142 - 137 (2)	0.005	0.078	0.000	0.017	0.000	0.083 ✔	1.050	4.8.2 ✔
L3	137 - 132 (3)	0.009	0.148	0.000	0.034	0.000	0.158 ✔	1.050	4.8.2 ✔
L4	132 - 127 (4)	0.009	0.215	0.000	0.034	0.000	0.225 ✔	1.050	4.8.2 ✔
L5	127 - 122 (5)	0.012	0.297	0.000	0.045	0.000	0.311 ✔	1.050	4.8.2 ✔
L6	122 - 117 (6)	0.012	0.378	0.000	0.046	0.000	0.392 ✔	1.050	4.8.2 ✔
L7	117 - 112 (7)	0.015	0.476	0.000	0.059	0.000	0.495 ✔	1.050	4.8.2 ✔
L8	112 - 105 (8)	0.015	0.540	0.000	0.059	0.000	0.559 ✔	1.050	4.8.2 ✔
L9	105 - 103.75 (9)	0.016	0.514	0.000	0.061	0.000	0.534 ✔	1.050	4.8.2 ✔
L10	103.75 - 98.75 (10)	0.017	0.601	0.000	0.060	0.000	0.621 ✔	1.050	4.8.2 ✔
L11	98.75 - 93.75 (11)	0.017	0.679	0.000	0.059	0.000	0.700 ✔	1.050	4.8.2 ✔
L12	93.75 - 89.666 (12)	0.017	0.738	0.000	0.058	0.000	0.758 ✔	1.050	4.8.2 ✔
L13	89.666 - 89.416 (13)	0.017	0.741	0.000	0.058	0.000	0.761 ✔	1.050	4.8.2 ✔
L14	89.416 - 88.083 (14)	0.017	0.760	0.000	0.058	0.000	0.780 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio P_u / ϕP_n	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio V_u / ϕV_n	Ratio T_u / ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L15	88.083 - 87.833 (15)	0.010	0.473	0.000	0.036	0.000	0.485 ✔	1.050	4.8.2 ✔
L16	87.833 - 85.833 (16)	0.010	0.489	0.000	0.035	0.000	0.501 ✔	1.050	4.8.2 ✔
L17	85.833 - 85.583 (17)	0.010	0.491	0.000	0.035	0.000	0.503 ✔	1.050	4.8.2 ✔
L18	85.583 - 84.5 (18)	0.010	0.499	0.000	0.035	0.000	0.511 ✔	1.050	4.8.2 ✔
L19	84.5 - 84.25 (19)	0.011	0.539	0.000	0.038	0.000	0.552 ✔	1.050	4.8.2 ✔
L20	84.25 - 79.25 (20)	0.012	0.592	0.000	0.039	0.000	0.606 ✔	1.050	4.8.2 ✔
L21	79.25 - 73.75 (21)	0.012	0.602	0.000	0.039	0.000	0.615 ✔	1.050	4.8.2 ✔
L22	73.75 - 72.75 (22)	0.011	0.550	0.000	0.032	0.000	0.562 ✔	1.050	4.8.2 ✔
L23	72.75 - 67.75 (23)	0.011	0.577	0.000	0.032	0.000	0.589 ✔	1.050	4.8.2 ✔
L24	67.75 - 63.083 (24)	0.011	0.613	0.000	0.032	0.000	0.625 ✔	1.050	4.8.2 ✔
L25	63.083 - 62.833 (25)	0.009	0.481	0.000	0.025	0.000	0.490 ✔	1.050	4.8.2 ✔
L26	62.833 - 57.833 (26)	0.009	0.507	0.000	0.025	0.000	0.517 ✔	1.050	4.8.2 ✔
L27	57.833 - 52.833 (27)	0.009	0.532	0.000	0.026	0.000	0.542 ✔	1.050	4.8.2 ✔
L28	52.833 - 47.833 (28)	0.010	0.547	0.000	0.025	0.000	0.558 ✔	1.050	4.8.2 ✔
L29	47.833 - 42.75 (29)	0.010	0.558	0.000	0.026	0.000	0.568 ✔	1.050	4.8.2 ✔
L30	42.75 - 42.5 (30)	0.010	0.539	0.000	0.024	0.000	0.549 ✔	1.050	4.8.2 ✔
L31	42.5 - 37.5 (31)	0.010	0.559	0.000	0.024	0.000	0.570 ✔	1.050	4.8.2 ✔
L32	37.5 - 32.75 (32)	0.010	0.569	0.000	0.024	0.000	0.580 ✔	1.050	4.8.2 ✔
L33	32.75 - 32.5 (33)	0.010	0.536	0.000	0.022	0.000	0.546 ✔	1.050	4.8.2 ✔
L34	32.5 - 27.5 (34)	0.010	0.553	0.000	0.022	0.000	0.563 ✔	1.050	4.8.2 ✔
L35	27.5 - 22.5 (35)	0.010	0.570	0.000	0.022	0.000	0.581 ✔	1.050	4.8.2 ✔
L36	22.5 - 17.5 (36)	0.011	0.577	0.000	0.022	0.000	0.588 ✔	1.050	4.8.2 ✔
L37	17.5 - 12.5 (37)	0.011	0.593	0.000	0.022	0.000	0.604 ✔	1.050	4.8.2 ✔
L38	12.5 - 8.083 (38)	0.011	0.608	0.000	0.022	0.000	0.619 ✔	1.050	4.8.2 ✔
L39	8.083 - 7.833 (39)	0.010	0.563	0.000	0.020	0.000	0.574 ✔	1.050	4.8.2 ✔
L40	7.833 - 6.417 (40)	0.011	0.573	0.000	0.021	0.000	0.584 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L41	6.417 - 6.167 (41)	0.011	0.582	0.000	0.021	0.000	0.593 ✔	1.050	4.8.2 ✔
L42	6.167 - 1.167 (42)	0.011	0.596	0.000	0.021	0.000	0.607 ✔	1.050	4.8.2 ✔
L43	1.167 - 0 (43)	0.011	0.597	0.000	0.021	0.000	0.609 ✔	1.050	4.8.2 ✔

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	147 - 142	Pole	TP22.85x22x0.25	1	-4.206	--	**	**
L2	142 - 137	Pole	TP23.7x22.85x0.25	2	-4.565	--	**	**
L3	137 - 132	Pole	TP24.55x23.7x0.25	3	-9.150	--	**	**
L4	132 - 127	Pole	TP25.4x24.55x0.25	4	-9.598	--	**	**
L5	127 - 122	Pole	TP26.251x25.4x0.25	5	-12.946	--	**	**
L6	122 - 117	Pole	TP27.101x26.251x0.25	6	-13.490	--	**	**
L7	117 - 112	Pole	TP27.951x27.101x0.25	7	-18.236	--	**	**
L8	112 - 105	Pole	TP29.141x27.951x0.25	8	-18.658	--	**	**
L9	105 - 103.75	Pole	TP28.854x28.003x0.313	9	-25.218	--	**	**
L10	103.75 - 98.75	Pole	TP29.704x28.854x0.313	10	-26.135	--	**	**
L11	98.75 - 93.75	Pole	TP30.554x29.704x0.313	11	-27.090	--	**	**
L12	93.75 - 89.666	Pole	TP31.249x30.554x0.313	12	-27.895	--	**	**
L13	89.666 - 89.416	Pole	TP31.291x31.249x0.313	13	-27.960	--	**	**
L14	89.416 - 88.083	Pole	TP31.518x31.291x0.313	14	-28.206	--	**	**
L15	88.083 - 87.833	Pole	TP31.56x31.518x0.513	15	-28.293	--	**	**
L16	87.833 - 85.833	Pole	TP31.9x31.56x0.513	16	-28.798	--	**	**
L17	85.833 - 85.583	Pole	TP31.943x31.9x0.513	17	-28.872	--	**	**
L18	85.583 - 84.5	Pole	TP32.127x31.943x0.513	18	-29.142	--	**	**
L19	84.5 - 84.25	Pole	TP32.17x32.127x0.475	19	-29.218	--	**	**
L20	84.25 - 79.25	Pole	TP33.02x32.17x0.463	20	-30.532	--	**	**
L21	79.25 - 73.75	Pole	TP33.955x33.02x0.463	21	-30.865	--	**	**
L22	73.75 - 72.75	Pole	TP33.5x32.607x0.563	22	-33.452	--	**	**
L23	72.75 - 67.75	Pole	TP34.35x33.5x0.563	23	-34.943	--	**	**
L24	67.75 - 63.083	Pole	TP35.144x34.35x0.55	24	-36.361	--	**	**
L25	63.083 - 62.833	Pole	TP35.186x35.144x0.713	25	-36.470	--	**	**
L26	62.833 - 57.833	Pole	TP36.036x35.186x0.7	26	-38.341	--	**	**
L27	57.833 - 52.833	Pole	TP36.887x36.036x0.688	27	-40.250	--	**	**
L28	52.833 - 47.833	Pole	TP37.737x36.887x0.688	28	-42.186	--	**	**
L29	47.833 - 42.75	Pole	TP38.601x37.737x0.675	29	-42.326	--	**	**
L30	42.75 - 42.5	Pole	TP37.894x37.043x0.75	30	-45.913	--	**	**
L31	42.5 - 37.5	Pole	TP38.744x37.894x0.738	31	-48.024	--	**	**
L32	37.5 - 32.75	Pole	TP39.551x38.744x0.738	32	-50.063	--	**	**
L33	32.75 - 32.5	Pole	TP39.594x39.551x0.788	33	-50.190	--	**	**
L34	32.5 - 27.5	Pole	TP40.444x39.594x0.775	34	-52.480	--	**	**
L35	27.5 - 22.5	Pole	TP41.294x40.444x0.763	35	-54.809	--	**	**
L36	22.5 - 17.5	Pole	TP42.144x41.294x0.763	36	-57.164	--	**	**
L37	17.5 - 12.5	Pole	TP42.995x42.144x0.75	37	-59.549	--	**	**
L38	12.5 - 8.083	Pole	TP43.746x42.995x0.738	38	-61.679	--	**	**
L39	8.083 - 7.833	Pole	TP43.788x43.746x0.8	39	-61.823	--	**	**
L40	7.833 - 6.417	Pole	TP44.029x43.788x0.788	40	-62.560	--	**	**
L41	6.417 - 6.167	Pole	TP44.071x44.029x0.775	41	-62.703	--	**	**

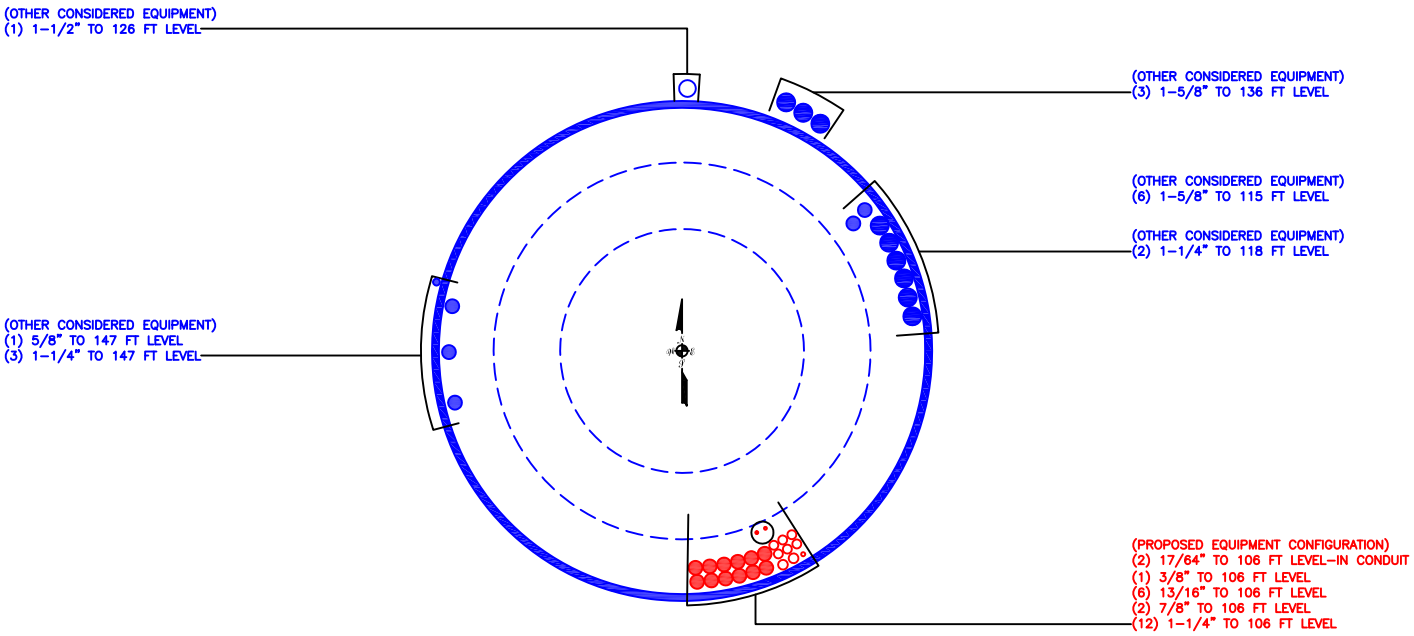
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L42	6.167 - 1.167	Pole	TP44.922x44.071x0.763	42	-65.248	--	**	**
L43	1.167 - 0	Pole	TP45.12x44.922x0.763	43	-65.847	--	**	**
							Summary	
						Pole (L14)	**	**
						RATING =	**	**

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

Program Version 8.1.1.0.eri

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 876316

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 876316

Work Order: 2092846

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	147	42	3.75	18	22	29.141	0.25	Auto	A607-60
2	108.75	35	4.25	18	28.00	33.955	0.3125	Auto	A607-60
3	78	35.25	4.75	18	32.61	38.601	0.375	Auto	A607-60
4	47.5	47.5	0	18	37.04	45.12	0.4375	Auto	A607-60

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	8.083	channel	MP3-05 (1.25in Welded	2					E1		E1											
2	6.417	76.583	channel	MP3-05 (1.25in)	1						E1												
3	0	88.083	channel	MP3-05 (1.25in Welded	2												E1						E1
4	75.667	85.833	channel	MP3-05 (1.25in)	1							E1											
5	84.5	89.666	channel	MP3-05 (1.25in)	1						E1												
6	0	32.75	plate	CCI-SFP-065125	2			E2						E2									
7	0	32.75	plate	CCI-WCFP-065125	1														E2				
8	32.75	63.083	plate	CCI-AFP-060100	3			E2						E2					E2				
9																							
10																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	5.33	2.09	5.65	0.79	Welded	n/a	PC 8.8 - M20 (100)	29.000	18.000	4.994	1.2500	A572-65
2	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	4.994	1.2500	A572-65
3	5.33	2.09	5.65	0.79	Welded	n/a	PC 8.8 - M20 (100)	29.000	18.000	4.994	1.2500	A572-65
4	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	4.994	1.2500	A572-65
5	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	4.994	1.2500	A572-65
6	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
7	6.5	1.25	8.125	0.625	Welded	n/a	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
8	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
MP3-05 (1.25in Welded)	Top	10	N	3	2	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	70	None	-	-	-	-	18	0.375	-
CCI-WCFP-065125	Top	11	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	80	None	-	-	-	-	66	0.375	-

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	147 - 142	5		18	22.000	22.850	0.25	A607-60	1.000
2	142 - 137	5		18	22.850	23.700	0.25	A607-60	1.000
3	137 - 132	5		18	23.700	24.550	0.25	A607-60	1.000
4	132 - 127	5		18	24.550	25.400	0.25	A607-60	1.000
5	127 - 122	5		18	25.400	26.251	0.25	A607-60	1.000
6	122 - 117	5		18	26.251	27.101	0.25	A607-60	1.000
7	117 - 112	5		18	27.101	27.951	0.25	A607-60	1.000
8	112 - 108.75	7	3.75	18	27.951	29.141	0.25	A607-60	1.000
9	108.75 - 103.75	5		18	28.003	28.854	0.3125	A607-60	1.000
10	103.75 - 98.75	5		18	28.854	29.704	0.3125	A607-60	1.000
11	98.75 - 93.75	5		18	29.704	30.554	0.3125	A607-60	1.000
12	93.75 - 89.666	4.084		18	30.554	31.249	0.3125	A607-60	1.000
13	89.666 - 89.416	0.25		18	31.249	31.291	0.3125	A607-60	1.000
14	89.416 - 88.083	1.333		18	31.291	31.518	0.3125	A607-60	1.000
15	88.083 - 87.833	0.25		18	31.518	31.560	0.5125	A607-60	0.949
16	87.833 - 85.833	2		18	31.560	31.900	0.5125	A607-60	0.946
17	85.833 - 85.583	0.25		18	31.900	31.943	0.5125	A607-60	0.945
18	85.583 - 84.5	1.083		18	31.943	32.127	0.5125	A607-60	0.943
19	84.5 - 84.25	0.25		18	32.127	32.170	0.475	A607-60	1.016
20	84.25 - 79.25	5		18	32.170	33.020	0.4625	A607-60	1.033
21	79.25 - 78	5.5	4.25	18	33.020	33.955	0.4625	A607-60	1.031
22	78 - 72.75	5.25		18	32.607	33.500	0.5625	A607-60	0.959
23	72.75 - 67.75	5		18	33.500	34.350	0.5625	A607-60	0.951
24	67.75 - 63.083	4.667		18	34.350	35.144	0.55	A607-60	0.966
25	63.083 - 62.833	0.25		18	35.144	35.186	0.7125	A607-60	0.980
26	62.833 - 57.833	5		18	35.186	36.036	0.7	A607-60	0.986
27	57.833 - 52.833	5		18	36.036	36.887	0.6875	A607-60	0.993
28	52.833 - 47.833	5		18	36.887	37.737	0.6875	A607-60	0.982
29	47.833 - 47.5	5.083	4.75	18	37.737	38.601	0.675	A607-60	1.000
30	47.5 - 42.5	5		18	37.043	37.894	0.75	A607-60	0.984
31	42.5 - 37.5	5		18	37.894	38.744	0.7375	A607-60	0.991
32	37.5 - 32.75	4.75		18	38.744	39.551	0.7375	A607-60	0.982
33	32.75 - 32.5	0.25		18	39.551	39.594	0.7875	A607-60	0.987
34	32.5 - 27.5	5		18	39.594	40.444	0.775	A607-60	0.993
35	27.5 - 22.5	5		18	40.444	41.294	0.7625	A607-60	1.000
36	22.5 - 17.5	5		18	41.294	42.144	0.7625	A607-60	0.991
37	17.5 - 12.5	5		18	42.144	42.995	0.75	A607-60	0.999
38	12.5 - 8.083	4.417		18	42.995	43.746	0.7375	A607-60	1.008
39	8.083 - 7.833	0.25		18	43.746	43.788	0.8	A607-60	1.034
40	7.833 - 6.417	1.416		18	43.788	44.029	0.7875	A607-60	1.047
41	6.417 - 6.167	0.25		18	44.029	44.071	0.775	A607-60	1.010
42	6.167 - 1.167	5		18	44.071	44.922	0.7625	A607-60	1.018
43	1.167 - 0	1.167		18	44.922	45.120	0.7625	A607-60	1.016

TNX Section Forces

Increment (ft): 5		TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	147 - 142	4.21	22.92	4.78
2	142 - 137	4.57	47.84	5.19
3	137 - 132	9.15	97.57	10.54
4	132 - 127	9.60	151.36	10.96
5	127 - 122	12.95	221.83	15.03
6	122 - 117	13.49	298.47	15.75
7	117 - 112	18.24	396.71	21.05
8	112 - 108.75	18.66	465.58	21.32
9	108.75 - 103.75	25.22	583.92	27.92
10	103.75 - 98.75	26.14	724.46	28.30
11	98.75 - 93.75	27.09	866.89	28.67
12	93.75 - 89.666	27.90	984.58	28.97
13	89.666 - 89.416	27.96	991.83	28.99
14	89.416 - 88.083	28.21	1030.54	29.11
15	88.083 - 87.833	28.29	1037.82	29.12
16	87.833 - 85.833	28.80	1096.28	29.33
17	85.833 - 85.583	28.87	1103.62	29.35
18	85.583 - 84.5	29.14	1135.47	29.47
19	84.5 - 84.25	29.22	1142.84	29.49
20	84.25 - 79.25	30.53	1291.49	29.97
21	79.25 - 78	30.87	1329.03	30.09
22	78 - 72.75	33.45	1489.24	30.88
23	72.75 - 67.75	34.94	1644.79	31.34
24	67.75 - 63.083	36.36	1792.04	31.77
25	63.083 - 62.833	36.47	1799.98	31.78
26	62.833 - 57.833	38.34	1960.19	32.29
27	57.833 - 52.833	40.25	2122.85	32.77
28	52.833 - 47.833	42.19	2287.88	33.24
29	47.833 - 47.5	42.33	2298.95	33.26
30	47.5 - 42.5	45.91	2466.76	33.84
31	42.5 - 37.5	48.02	2637.04	34.27
32	37.5 - 32.75	50.06	2800.69	34.65
33	32.75 - 32.5	50.19	2809.35	34.65
34	32.5 - 27.5	52.48	2983.61	35.05
35	27.5 - 22.5	54.81	3159.73	35.40
36	22.5 - 17.5	57.16	3337.52	35.72
37	17.5 - 12.5	59.55	3516.80	36.00
38	12.5 - 8.083	61.68	3676.32	36.24
39	8.083 - 7.833	61.82	3685.37	36.23
40	7.833 - 6.417	62.56	3736.75	36.34
41	6.417 - 6.167	62.70	3745.83	36.32
42	6.167 - 1.167	65.25	3928.16	36.60
43	1.167 - 0	65.85	3970.90	36.66

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
147 - 142	Pole	TP22.85x22x0.25	Pole	4.3%	Pass
142 - 137	Pole	TP23.7x22.85x0.25	Pole	7.9%	Pass
137 - 132	Pole	TP24.55x23.7x0.25	Pole	15.0%	Pass
132 - 127	Pole	TP25.4x24.55x0.25	Pole	21.5%	Pass
127 - 122	Pole	TP26.251x25.4x0.25	Pole	29.6%	Pass
122 - 117	Pole	TP27.101x26.251x0.25	Pole	37.3%	Pass
117 - 112	Pole	TP27.951x27.101x0.25	Pole	47.2%	Pass
112 - 108.75	Pole	TP29.141x27.951x0.25	Pole	53.3%	Pass
108.75 - 103.75	Pole	TP28.854x28.003x0.3125	Pole	50.9%	Pass
103.75 - 98.75	Pole	TP29.704x28.854x0.3125	Pole	59.1%	Pass
98.75 - 93.75	Pole	TP30.554x29.704x0.3125	Pole	66.6%	Pass
93.75 - 89.67	Pole	TP31.249x30.554x0.3125	Pole	72.2%	Pass
89.67 - 89.42	Pole	TP31.291x31.249x0.3125	Pole	72.5%	Pass
89.42 - 88.08	Pole	TP31.518x31.291x0.3125	Pole	74.3%	Pass
88.08 - 87.83	Pole + Reinf.	TP31.56x31.518x0.5125	Reinf. 5 Tension Rupture	63.1%	Pass
87.83 - 85.83	Pole + Reinf.	TP31.9x31.56x0.5125	Reinf. 5 Tension Rupture	65.5%	Pass
85.83 - 85.58	Pole + Reinf.	TP31.943x31.9x0.5125	Reinf. 3 Tension Rupture	65.7%	Pass
85.58 - 84.5	Pole + Reinf.	TP32.127x31.943x0.5125	Reinf. 5 Tension Rupture	67.0%	Pass
84.5 - 84.25	Pole + Reinf.	TP32.17x32.127x0.475	Reinf. 3 Tension Rupture	69.2%	Pass
84.25 - 79.25	Pole + Reinf.	TP33.02x32.17x0.4625	Reinf. 3 Tension Rupture	74.8%	Pass
79.25 - 78	Pole + Reinf.	TP33.955x33.02x0.4625	Reinf. 3 Tension Rupture	76.1%	Pass
78 - 72.75	Pole + Reinf.	TP33.5x32.607x0.5625	Reinf. 2 Tension Rupture	72.9%	Pass
72.75 - 67.75	Pole + Reinf.	TP34.35x33.5x0.5625	Reinf. 2 Tension Rupture	77.1%	Pass
67.75 - 63.08	Pole + Reinf.	TP35.144x34.35x0.55	Reinf. 3 Tension Rupture	80.7%	Pass
63.08 - 62.83	Pole + Reinf.	TP35.186x35.144x0.7125	Reinf. 8 Tension Rupture	66.2%	Pass
62.83 - 57.83	Pole + Reinf.	TP36.036x35.186x0.7	Reinf. 8 Tension Rupture	69.4%	Pass
57.83 - 52.83	Pole + Reinf.	TP36.887x36.036x0.6875	Reinf. 8 Tension Rupture	72.5%	Pass
52.83 - 47.83	Pole + Reinf.	TP37.737x36.887x0.6875	Reinf. 8 Tension Rupture	75.4%	Pass
47.83 - 47.5	Pole + Reinf.	TP38.601x37.737x0.675	Reinf. 8 Tension Rupture	75.6%	Pass
47.5 - 42.5	Pole + Reinf.	TP37.894x37.043x0.75	Reinf. 8 Tension Rupture	74.2%	Pass
42.5 - 37.5	Pole + Reinf.	TP38.744x37.894x0.7375	Reinf. 8 Tension Rupture	76.6%	Pass
37.5 - 32.75	Pole + Reinf.	TP39.551x38.744x0.7375	Reinf. 8 Tension Rupture	78.7%	Pass
32.75 - 32.5	Pole + Reinf.	TP39.594x39.551x0.7875	Reinf. 3 Tension Rupture	72.5%	Pass
32.5 - 27.5	Pole + Reinf.	TP40.444x39.594x0.775	Reinf. 3 Tension Rupture	74.4%	Pass
27.5 - 22.5	Pole + Reinf.	TP41.294x40.444x0.7625	Reinf. 6 Tension Rupture	76.3%	Pass
22.5 - 17.5	Pole + Reinf.	TP42.144x41.294x0.7625	Reinf. 6 Tension Rupture	78.0%	Pass
17.5 - 12.5	Pole + Reinf.	TP42.995x42.144x0.75	Reinf. 6 Tension Rupture	79.6%	Pass
12.5 - 8.08	Pole + Reinf.	TP43.746x42.995x0.7375	Reinf. 6 Tension Rupture	81.0%	Pass
8.08 - 7.83	Pole + Reinf.	TP43.788x43.746x0.8	Reinf. 3 Tension Rupture	78.9%	Pass
7.83 - 6.42	Pole + Reinf.	TP44.029x43.788x0.7875	Reinf. 3 Tension Rupture	79.3%	Pass
6.42 - 6.17	Pole + Reinf.	TP44.071x44.029x0.775	Reinf. 3 Tension Rupture	79.6%	Pass
6.17 - 1.17	Pole + Reinf.	TP44.922x44.071x0.7625	Reinf. 3 Tension Rupture	81.0%	Pass
1.17 - 0	Pole + Reinf.	TP45.12x44.922x0.7625	Reinf. 3 Tension Rupture	81.3%	Pass
				Summary	
			Pole	74.3%	Pass
			Reinforcement	81.3%	Pass
			Overall	81.3%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity* (100% Max. Allowable)								
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8
147 - 142	1157	n/a	1157	17.93	n/a	17.93	4.3%								
142 - 137	1292	n/a	1292	18.61	n/a	18.61	7.9%								
137 - 132	1438	n/a	1438	19.28	n/a	19.28	15.0%								
132 - 127	1594	n/a	1594	19.96	n/a	19.96	21.5%								
127 - 122	1761	n/a	1761	20.63	n/a	20.63	29.6%								
122 - 117	1940	n/a	1940	21.31	n/a	21.31	37.3%								
117 - 112	2130	n/a	2130	21.98	n/a	21.98	47.2%								
112 - 108.75	2260	n/a	2260	22.42	n/a	22.42	53.3%								
108.75 - 103.75	2912	n/a	2912	28.31	n/a	28.31	50.9%								
103.75 - 98.75	3181	n/a	3181	29.15	n/a	29.15	59.1%								
98.75 - 93.75	3465	n/a	3465	29.99	n/a	29.99	66.6%								
93.75 - 89.67	3709	n/a	3709	30.68	n/a	30.68	72.2%								
89.67 - 89.42	3724	n/a	3724	30.73	n/a	30.73	72.5%								
89.42 - 88.08	3807	n/a	3807	30.95	n/a	30.95	74.3%								
88.08 - 87.83	3822	2338	6160	30.99	16.95	47.94	45.6%			63.1%		63.1%			
87.83 - 85.83	3948	2386	6334	31.33	16.95	48.28	47.4%			65.5%		65.5%			
85.83 - 85.58	3964	2392	6356	31.37	16.95	48.32	47.6%			65.7%		65.7%			
85.58 - 84.5	4034	2418	6452	31.55	16.95	48.50	48.6%			67.0%		67.0%			
84.5 - 84.25	4062	1973	6035	31.60	16.95	48.55	54.9%			69.2%	66.3%				
84.25 - 79.25	4396	2074	6469	32.44	16.95	49.39	59.7%			74.8%	71.7%				
79.25 - 78	4482	2099	6581	32.65	16.95	49.60	60.8%			76.1%	72.9%				
78 - 72.75	5464	2618	8082	39.43	16.95	56.38	52.6%		72.9%	72.9%					
72.75 - 67.75	5895	2746	8641	40.44	16.95	57.39	55.6%		77.1%	77.1%					
67.75 - 63.08	6318	2868	9186	41.38	16.95	58.33	58.3%		80.7%	80.7%					
63.08 - 62.83	6350	5315	11665	41.43	34.95	76.38	47.8%		62.2%	65.2%					66.2%
62.83 - 57.83	6826	5564	12390	42.44	34.95	77.39	50.2%		65.2%	68.3%					69.4%
57.83 - 52.83	7326	5818	13144	43.46	34.95	78.41	52.4%		68.1%	71.3%					72.5%
52.83 - 47.83	7849	6079	13928	44.47	34.95	79.42	54.6%		70.8%	74.1%					75.4%
47.83 - 47.5	7885	6096	13981	44.54	34.95	79.49	54.8%		71.0%	74.3%					75.6%
47.5 - 42.5	9225	6129	15354	52.01	34.95	86.96	53.4%		69.7%	72.6%					74.2%
42.5 - 37.5	9868	6396	16263	53.19	34.95	88.14	55.1%		71.9%	74.8%					76.6%
37.5 - 32.75	10505	6655	17159	54.31	34.95	89.26	56.6%		73.8%	76.8%					78.7%
32.75 - 32.5	10545	7805	18350	54.37	41.33	95.70	53.4%		68.9%	72.5%			72.5%	70.2%	
32.5 - 27.5	11246	8130	19376	55.55	41.33	96.88	54.9%		70.8%	74.4%			74.4%	72.1%	
27.5 - 22.5	11978	8461	20440	56.73	41.33	98.06	56.3%		72.5%	76.2%			76.3%	73.9%	
22.5 - 17.5	12741	8799	21541	57.91	41.33	99.24	57.5%		74.2%	77.9%			78.0%	75.6%	
17.5 - 12.5	13536	9144	22680	59.09	41.33	100.42	58.7%		75.7%	79.5%			79.6%	77.2%	
12.5 - 8.08	14265	9455	23719	60.14	41.33	101.46	59.8%		77.0%	80.8%			81.0%	78.5%	
8.08 - 7.83	14441	11059	25500	60.20	52.63	112.82	57.6%	62.0%	58.9%	78.9%			72.7%	73.0%	
7.83 - 6.42	14682	11177	25859	60.53	52.63	113.15	58.0%	62.4%	59.3%	79.3%			73.1%	73.4%	
6.42 - 6.17	14649	10631	25280	60.59	46.98	107.56	59.1%	70.3%		79.6%			76.3%	76.4%	
6.17 - 1.17	15520	11032	26552	61.77	46.98	108.74	60.4%	71.6%		81.0%			77.6%	77.8%	
1.17 - 0	15728	11126	26854	62.05	46.98	109.02	60.7%	71.8%		81.3%			77.9%	78.1%	

Note: Section capacity checked using 5 degree increments.

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

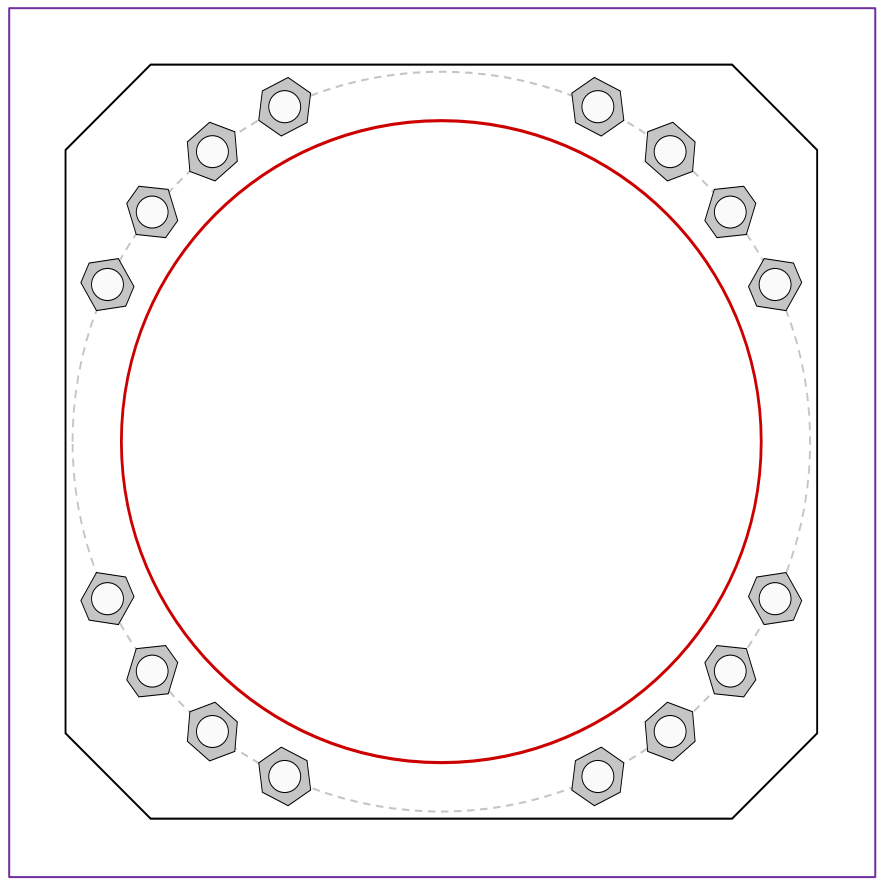
Monopole Base Plate Connection

Site Info	
BU #	876316
Site Name	CONDINO PROPERTY, (
Order #	599668, Rev.0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	0

Applied Loads	
Moment (kip-ft)	3970.90
Axial Force (kips)	65.85
Shear Force (kips)	36.66

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(16) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 52" BC

Anchor Spacing: 6 in

Base Plate Data

53" W x 3" Plate (A572-50; Fy=50 ksi, Fu=65 ksi); Clip: 6 in

Stiffener Data

N/A

Pole Data

45.12" x 0.4375" 18-sided pole (A607-60; Fy=60 ksi, Fu=75 ksi)

Analysis Results

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

Pu_t = 224.8	ϕPn_t = 243.75	**Stress Rating**
Vu = 2.29	ϕVn = 149.1	**87.8%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	34.89	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	**73.8%**	**Pass**

Drilled Pier Foundation

BU # :	876316
Site Name:	SECONDINO PROPERTY,
Order Number:	599668, Rev.0
TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	3970.9	
Axial Force (kips)	65.85	
Shear Force (kips)	36.66	

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

Pier Design Data		
Depth	22.5	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 22.5' below grade		
Pier Diameter	7	ft
Rebar Quantity	32	
Rebar Size	11	
Clear Cover to Ties	4	in
Tie Size	5	
Tie Spacing	18	in

Rebar & Pier Options
Embedded Pole Inputs
Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	5.80	-
Soil Safety Factor	2.27	-
Max Moment (kip-ft)	4250.67	-
Rating*	*55.8%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	202.37	-
End Bearing (kips)	1723.17	-
Weight of Concrete (kips)	111.77	-
Total Capacity (kips)	1925.54	-
Axial (kips)	177.62	-
Rating*	*8.8%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	5.59	-
Critical Moment (kip-ft)	4250.10	-
Critical Moment Capacity	7552.80	-
Rating*	*53.6%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	16.28	-
Critical Shear (kip)	533.79	-
Critical Shear Capacity	626.12	-
Rating*	*81.2%*	-

Structural Foundation Rating*	**81.2%**
Soil Interaction Rating*	**55.8%**

*Rating per TIA-222-H Section 15.5

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

Go to Soil Calculations

Soil Profile

Groundwater Depth	6	# of Layers	9

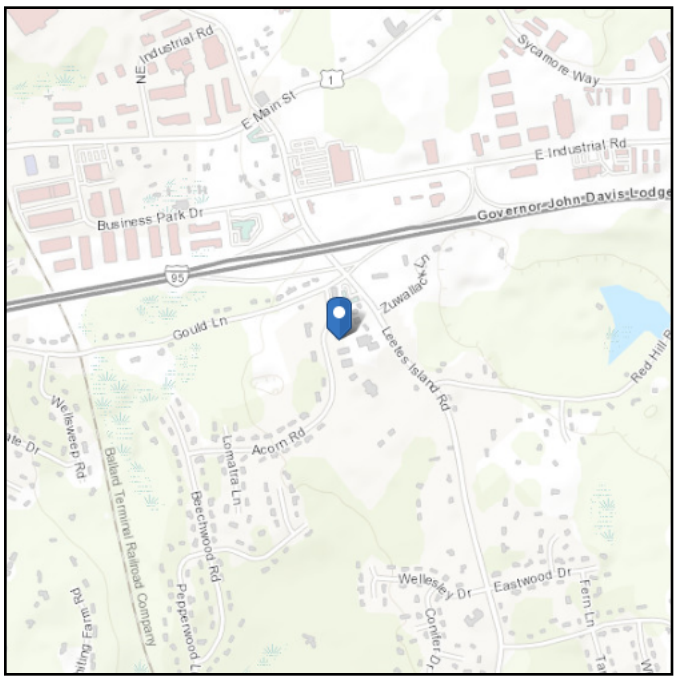
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	116	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3	3.5	0.5	115	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	3.5	5	1.5	115	150	0	38	0.000	0.000	0.18	0.18			Cohesionless
4	5	6	1	116.4	150	0	41	0.000	0.000	0.28	0.28			Cohesionless
5	6	7	1	54	87.6	0	41	0.000	0.000	0.28	0.28			Cohesionless
6	7	10	3	55	87.6	0	45	0.000	0.000	0.38	0.38			Cohesionless
7	10	15	5	55	87.6	0	45	0.00	0.00	0.48	0.48			Cohesionless
8	15	20	5	55	87.6	3.25	0	1.78	1.78	1.20	1.20			Cohesive
9	20	22.5	2.5	55	87.6	0	45	0.00	0.00	0.76	0.76	58.1		Cohesionless

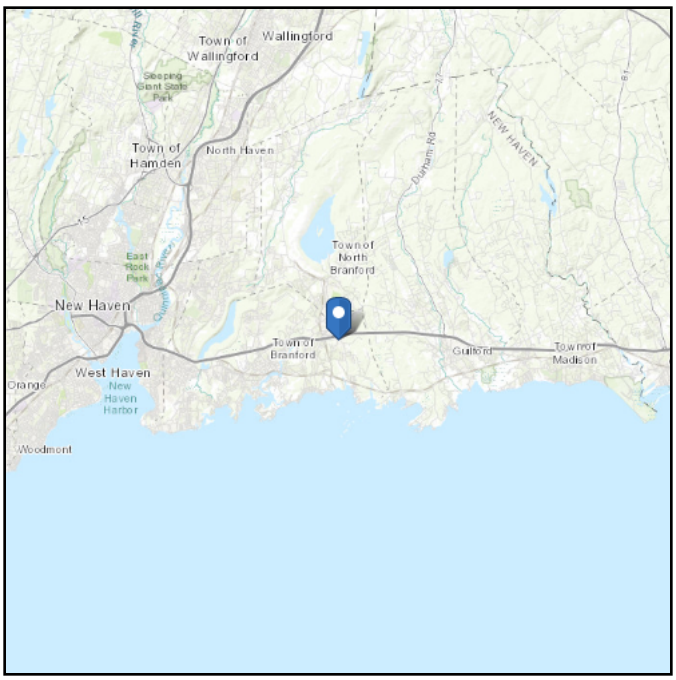
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 115.09 ft (NAVD 88)
Latitude: 41.293072
Longitude: -72.762889





Wind

Results:

Wind Speed	122 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	93 Vmph
100-year MRI	99 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:	Sat Mar 26 2022

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

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

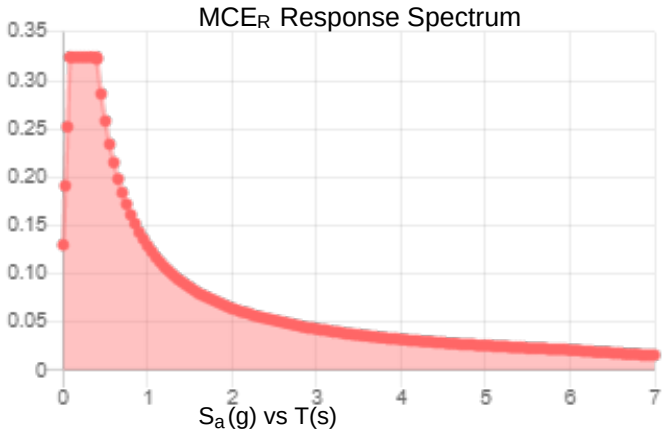
Seismic

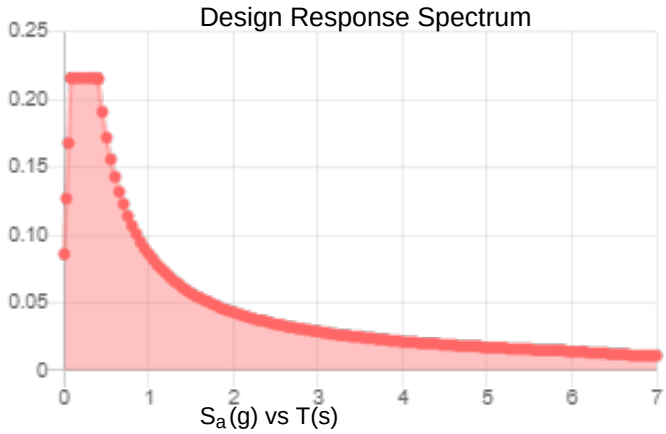
Site Soil Class: D - Stiff Soil

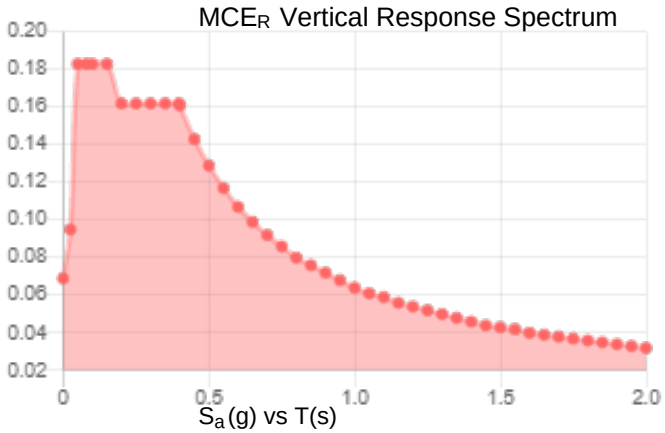
Results:

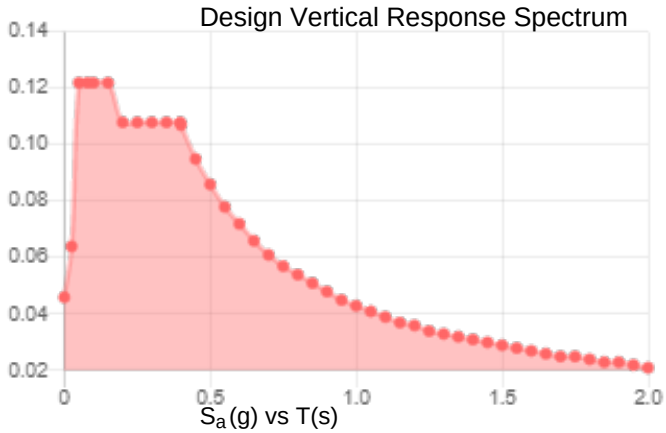
S_S :	0.203	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.113
F_v :	2.4	PGA_M :	0.178
S_{MS} :	0.324	F_{PGA} :	1.573
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.216	C_v :	0.705

Seismic Design Category B









Data Accessed: **Sat Mar 26 2022**

Date Source:

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Sat Mar 26 2022

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

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

AT&T

AT&T SITE NUMBER: CTL02014
AT&T SITE NAME: BRANFORD-LEETES ISLAND
AT&T FA CODE: 10035270
AT&T PACE NUMBER: MRCTB057000, MRCTB056896, MRCTB056995, MRCTB56898
AT&T PROJECT: 5G NR 1SR CBAND, 5G NR ACTIVATION

BUSINESS UNIT #: 876316
SITE ADDRESS: 21 ACORN ROAD
BRANFORD, CT 06405
COUNTY: NEW HAVEN
SITE TYPE: MONOPOLE
TOWER HEIGHT: 147'-0"

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	SECONDINO PROPERTY
SITE ADDRESS:	21 ACORN ROAD BRANFORD, CT 06405
COUNTY:	NEW HAVEN
MAP/PARCEL #:	H05/000/003/00010
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 17' 35.06"
LONGITUDE:	-72° 45' 46.40"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	113'
CURRENT ZONING:	IG-2 - GENERAL INDUSTRIAL
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	21 ACORN ROAD LLC 21 ACORN RD BRANFORD, CT 06405
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:	CONNECTICUT LIGHT & POWER CO 1-800-286-2000
TELCO PROVIDER:	LIGHTOWER

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS marvin.phillips@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 VERONICA CHAPMAN - PROJECT MANAGER VERONICA.CHAPMAN@BTGRP.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.

DRAWING INDEX

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ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. 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 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) ANDREW - SBNHH-1D65A ANTENNAS
- REMOVE (6) POWERWAVE - LGP 21401 TMA
- RELOCATE (3) CCI - DMP65R-BU4DA ANTENNAS
- RELOCATE (3) CCI - TPA-65R-BU4DA ANTENNAS
- RELOCATE (3) ERICSSON - 4449 B5/B12 RRUS
- RELOCATE (3) ERICSSON - 4478 B14 RRUS
- RELOCATE (3) ERICSSON - 4426 B66 RRUS
- INSTALL (6) ERICSSON - AIR6449 B77D+AIR6419 B77G STACKED ANTENNAS
- INSTALL (1) DC6-48-60-18-8F SQUID
- INSTALL (1) 3/8" 18 PAIR FIBER TRUNK
- INSTALL (2) 7/8" 6AWG DC TRUNK
- INSTALL (3) DUAL RRH MOUNT BRACKETS
- INSTALL (3) Y CABLES

GROUND SCOPE OF WORK:
- REMOVE (6) POWERWAVE - LGP21901 DIPLEXERS
- REMOVE (5) BATTERY STRING
- INSTALL (4) RECTIFIERS
- INSTALL (5) BATTERY STRING
- INSTALL (1) 6648 WITH XCEDE CABLE ON LTE RACK

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:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	POD GROUP
DATED:	3/23/22
RFDS REVISION:	PRELIMINARY
DATED:	2/28/22
ORDER ID:	599668
REVISION:	0
AC ELECTRICAL POWER DESIGN:	N/A
DATED:	N/A

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

CROWN CASTLE
3530 TORINGDON WAY, SUITE 300
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: **CTL02014**

BU #: **876316**
SECONDINO PROPERTY

21 ACORN ROAD
BRANFORD, CT 06405

EXISTING
147'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/12/22	JTS	CONSTRUCTION	MTJ
0	4/12/22	JTS	CONSTRUCTION	MTJ
1	6/2/22	JTS	CONSTRUCTION	KT

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/2/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: T-1
REVISION: 1

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.

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

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).

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PH: (918) 587-4630
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AT&T SITE NUMBER: **CTL02014**

BU #: **876316**
SECONDINO PROPERTY

21 ACORN ROAD
BRANFORD, CT 06405

EXISTING
147'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/12/22	JTS	CONSTRUCTION	MTJ
0	4/12/22	JTS	CONSTRUCTION	MTJ
1	6/2/22	JTS	CONSTRUCTION	KT

No. 23924
6/2/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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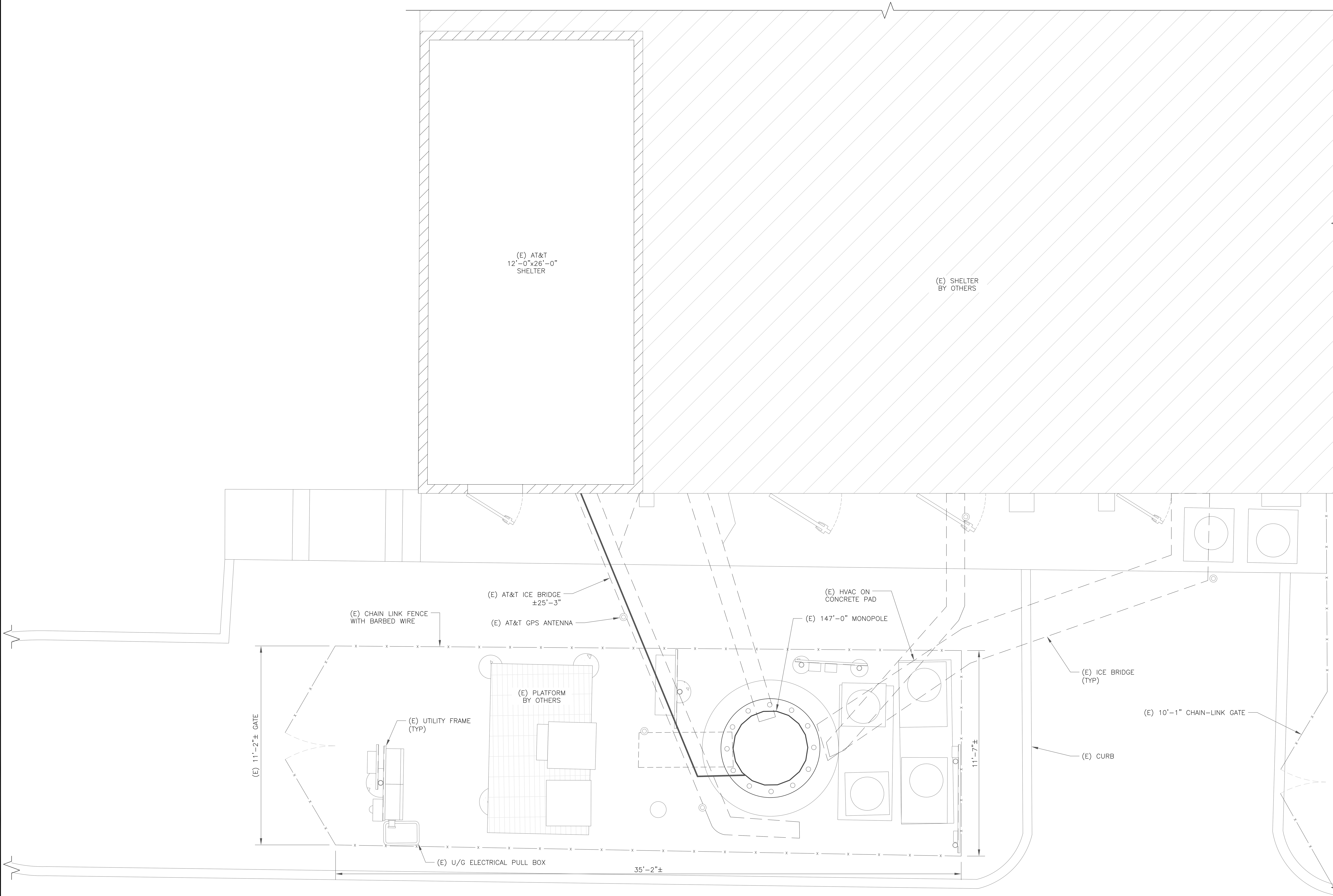
SHEET NUMBER: T-2
REVISION: 1



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

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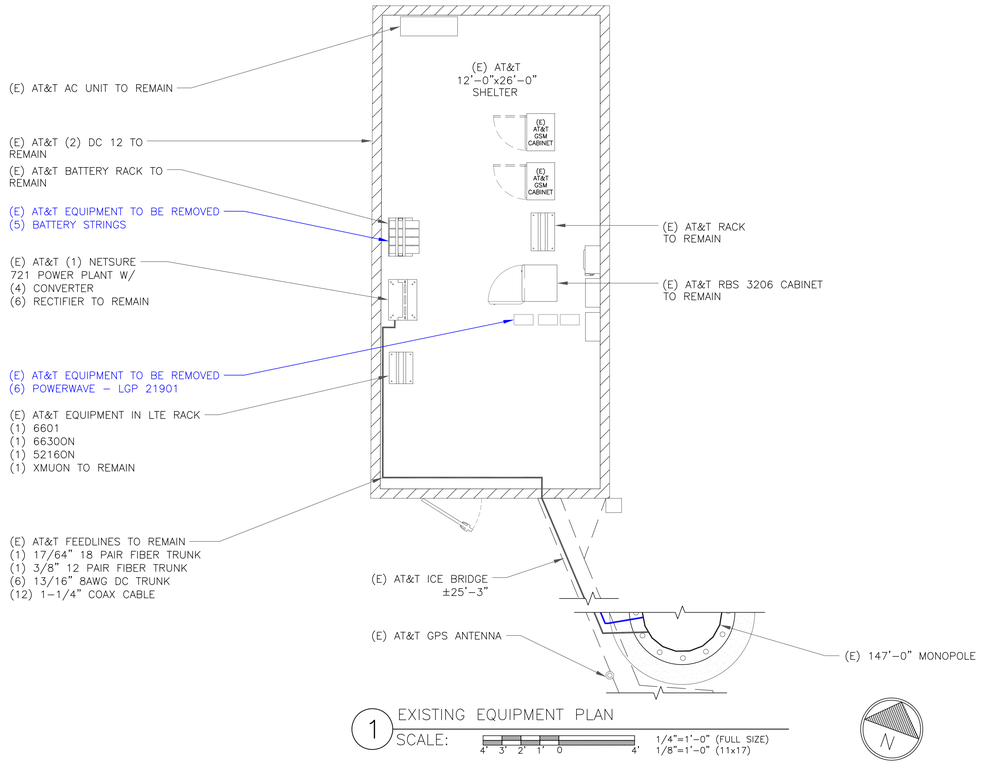
SHEET NUMBER: C-1.1

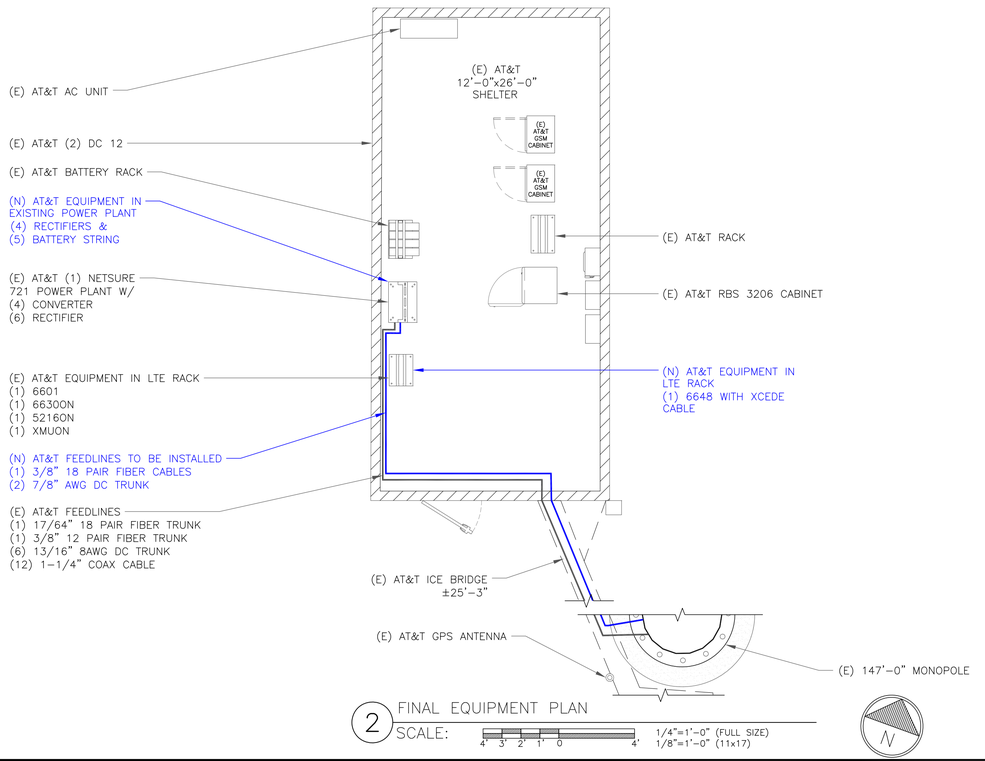
REVISION: 1

137117.004.01_876316_SECONDINO PROPERTY.dwg – Sheet:C-1.1 – User: kevin.turkall – Jun 02, 2022 – 3:09pm



1 EXISTING EQUIPMENT PLAN

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



2 FINAL EQUIPMENT PLAN

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

GROUND SCOPE OF WORK:

- REMOVE (6) POWERWAVE – LGP21901 DIPLEXERS
- REMOVE (5) BATTERY STRING
- INSTALL (4) RECTIFIERS
- INSTALL (5) BATTERY STRING
- INSTALL (1) 6648 WITH XCEDE CABLE ON LTE RACK

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.

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EXISTING
147'-0" MONOPOLE

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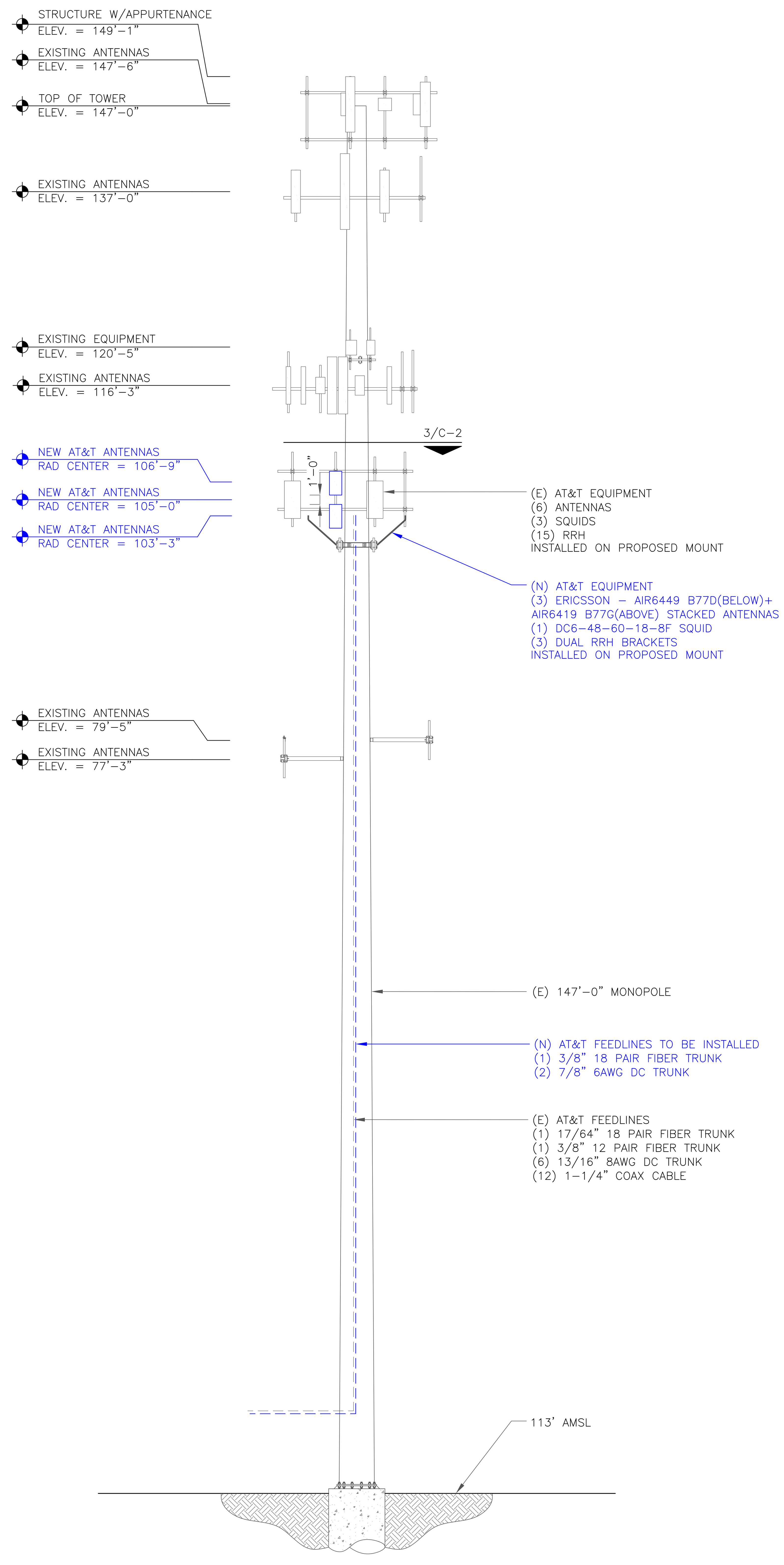
1	6/2/22	JTS	CONSTRUCTION	KT

STATE OF CONNECTICUT
MICHAEL T. JANSEN
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/2/22

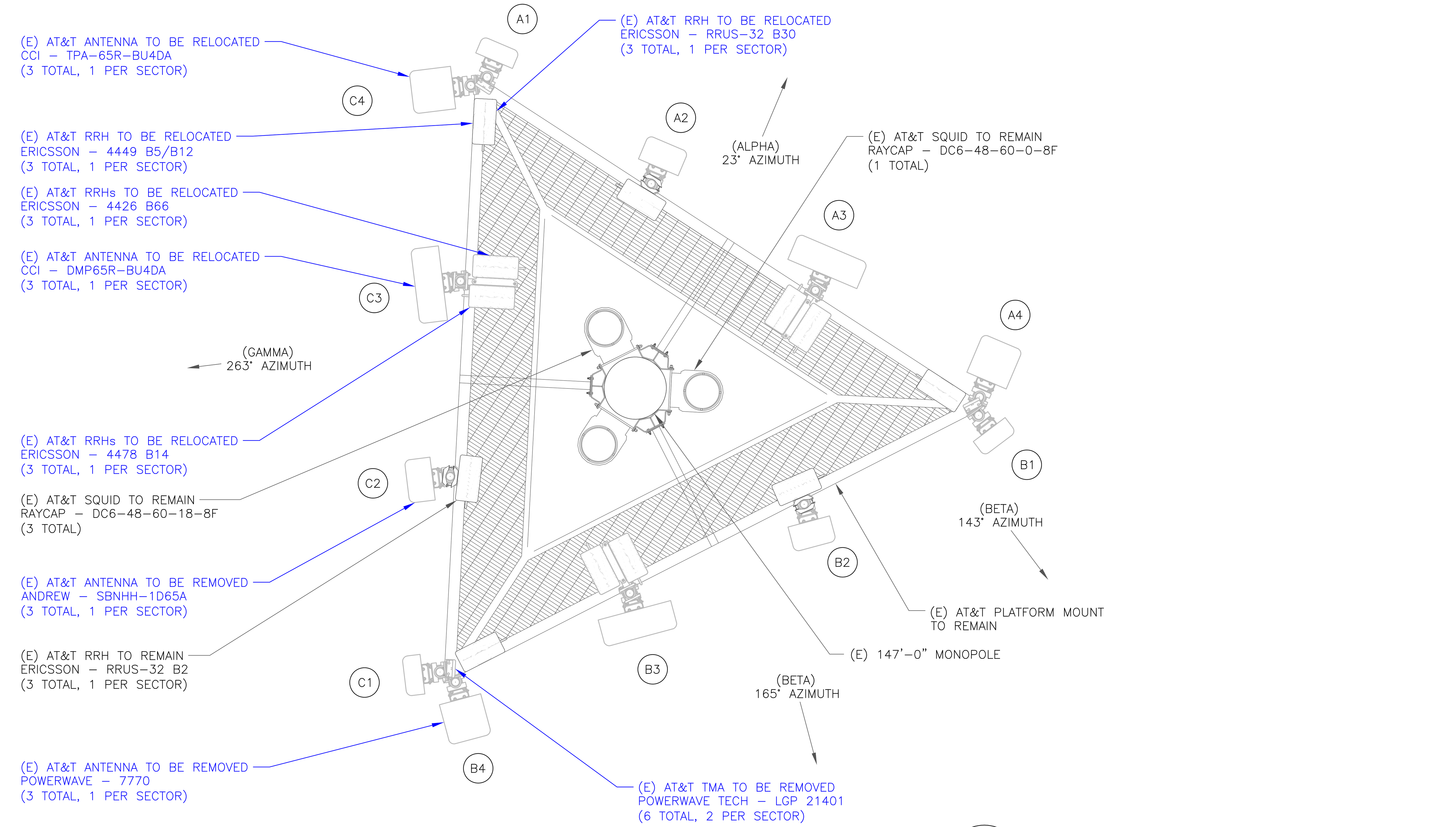
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-1.2

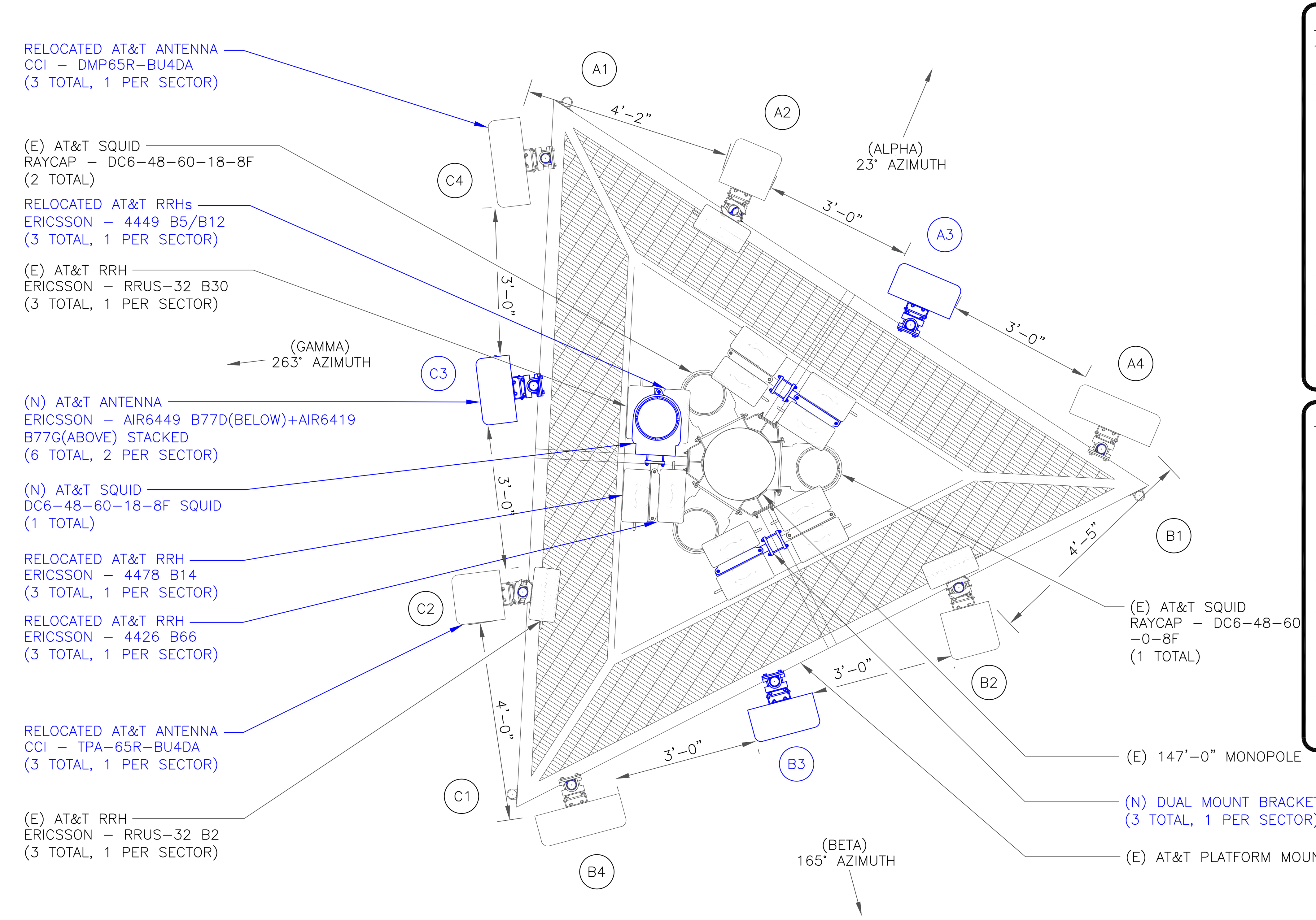
REVISION: 1



1 FINAL ELEVATION
SCALE: NOT TO SCALE



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



3 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE) 1/4"=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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AT&T SITE NUMBER: **CTL02014**

BU #: **876316**
SECONDINO PROPERTY

21 ACORN ROAD
BRANFORD, CT 06405

EXISTING
147'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/12/22	JTS	CONSTRUCTION	MTJ
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No. 23024 LICENSED PROFESSIONAL ENGINEER 6/2/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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SHEET NUMBER: C-2
REVISION: 1

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA			SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MANUFACTURER MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
ALPHA																			
A1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
A2	LTE/5G	(E) CCI – TPA–65R–BU4DA	23°	105'–0"	1 1 1	(E) ERICSSON – RRUS–32 B2 (E) ERICSSON – 4478 B14 (E) ERICSSON – 4426 B66	TOWER	–	–	–	–	–	–	–	2	(E) COAX	1–1/4"	155'–0"
A3	5G CBAND/5G DOD	(N) ERICSSON – AIR6449 B77D+AIR6419 B77G STACKED	23°	106'–9" 103'–3"	–	INTERGRATED WITHIN	TOWER	–	–	–	–	–	1	(E) DC6–48–60–18–8F	1 2	(E) 18 PAIR FIBER (E) 8AWG DC	17/64" 13/16"	155'–0"
A4	LTE/5G	(E) CCI – DMP65R–BU4DA	23°	105'–0"	1 1 1	(E) ERICSSON – 4449 B5/B12 (E) ERICSSON – RRUS–32 B30 (N) Y CABLE	TOWER TOWER TOWER	–	–	–	–	–	–	–	–	–	–	–
BETA																			
B1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
B2	LTE/5G	(E) CCI – TPA–65R–BU4DA	165°	105'–0"	1 1 1	(E) ERICSSON – RRUS–32 B2 (E) ERICSSON – 4478 B14 (E) ERICSSON – 4426 B66	TOWER	–	–	–	–	–	–	–	2	(E) COAX	1–1/4"	155'–0"
B3	5G CBAND/5G DOD	(N) ERICSSON – AIR6449 B77D+AIR6419 B77G STACKED	165°	106'–9" 103'–3"	–	INTERGRATED WITHIN	TOWER	–	–	–	–	–	1	(E) DC6–48–60–18–8F	1 2	(E) 12 PAIR FIBER (E) 8AWG DC	17/64" 13/16"	155'–0"
B4	LTE/5G	(E) CCI – DMP65R–BU4DA	165°	105'–0"	1 1 1	(E) ERICSSON – 4449 B5/B12 (E) ERICSSON – RRUS–32 B30 (N) Y CABLE	TOWER TOWER TOWER	–	–	–	–	–	–	–			–	–
GAMMA																			
C1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
C2	LTE/5G	(E) CCI – TPA–65R–BU4DA	263°	105'–0"	1 1 1	(E) ERICSSON – RRUS–32 B2 (E) ERICSSON – 4478 B14 (E) ERICSSON – 4426 B66	TOWER	–	–	–	–	–	–	–	2	(E) COAX	1–1/4"	155'–0"
C3	5G CBAND/5G DOD	(N) ERICSSON – AIR6449 B77D+AIR6419 B77G STACKED	263°	106'–9" 103'–3"	–	INTERGRATED WITHIN	TOWER	–	–	–	–	–	1	(N) DC6–48–60–18–8F	1 2	(N) 18 PAIR FIBER (N) 6AWG DC	3/8" 7/8"	155'–0"
C4	LTE/5G	(E) CCI – DMP65R–BU4DA	263°	105'–0"	1 1 1	(E) ERICSSON – 4449 B5/B12 (E) ERICSSON – RRUS–32 B30 (N) Y CABLE	TOWER TOWER TOWER	–	–	–	–	–	1	(E) DC6–48–60–0–8F	2	(E) 8AWG DC	13/16"	155'–0"
														UNUSED FEEDLINES:	6	COAX	1–1/4"	155'–0"

NOTE:
(E) – EXISTING
(N) – NEW

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

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0	4/12/22	JTS	CONSTRUCTION	MTJ
1	6/2/22	JTS	CONSTRUCTION	KT

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
6/2/22

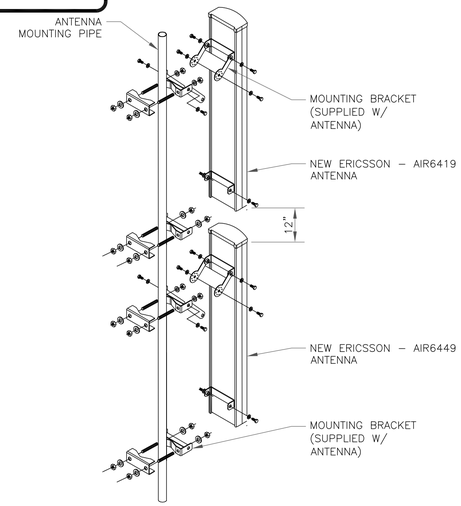
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-3

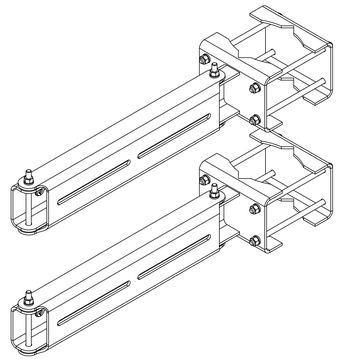
REVISION: 1

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. RRHs SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



1 STACKED ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



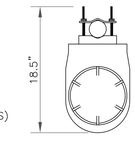
2 DUAL RADIO MOUNT
SCALE: NOT TO SCALE

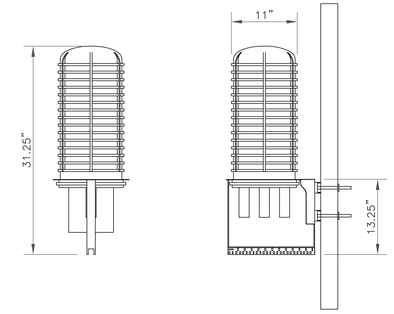
3 NOT USED
SCALE: NOT TO SCALE

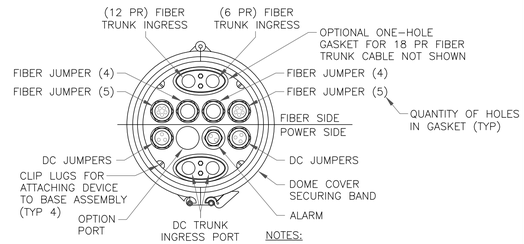
RAYCAP
DC6-48-60-18-8F

RAYCAP – DC6-48-60-18-8F
SIZE: 11x31.25 IN.
WEIGHT: 32.8 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 400 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







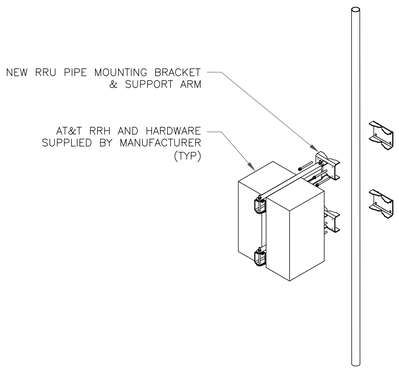
NOTES:

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. RRHs SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



4 DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

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

CROWN CASTLE
3530 TORINGDON WAY, SUITE 300
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: **CTL02014**

BU #: **876316**
SECONDINO PROPERTY

21 ACORN ROAD
BRANFORD, CT 06405

EXISTING
147'-0" MONOPOLE

ISSUED FOR:

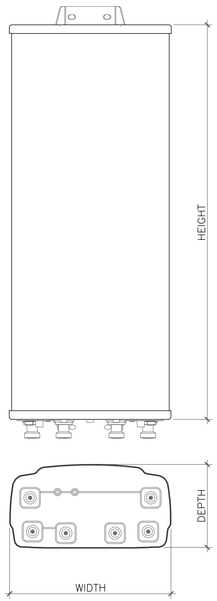
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/12/22	JTS	CONSTRUCTION	MTJ
0	4/12/22	JTS	CONSTRUCTION	MTJ
1	6/2/22	JTS	CONSTRUCTION	KT

6/2/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

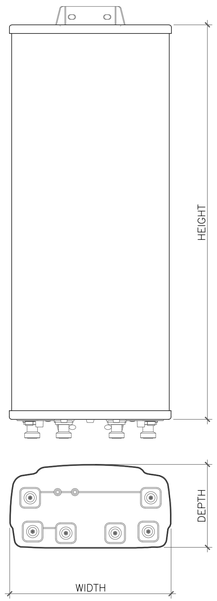
SHEET NUMBER: C-4

REVISION: 1



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6449 B77D	30.39"	15.87"	8.07"	81.60 lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR6419 B77G	31.30"	16.10"	7.30"	44.0 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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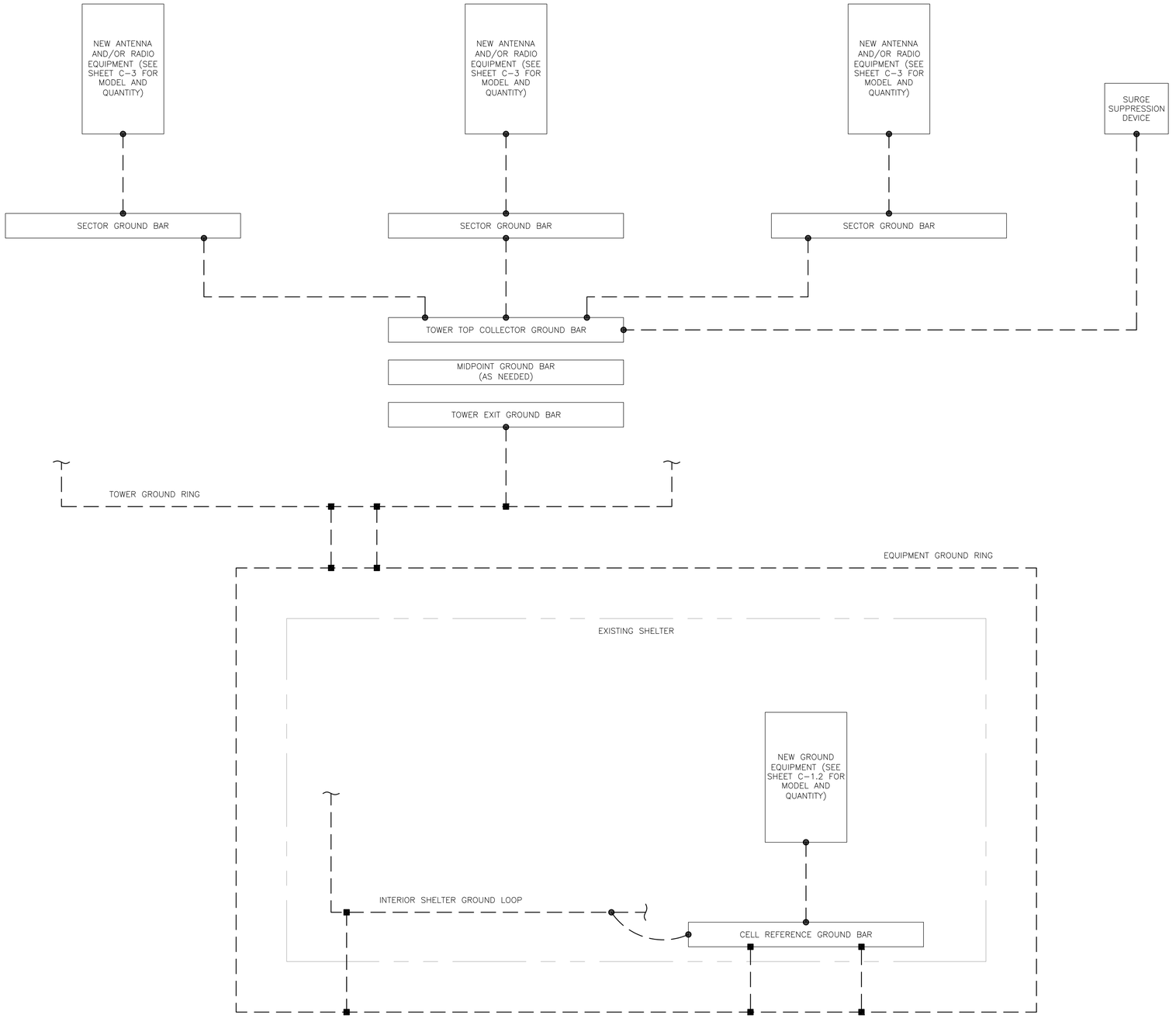
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-5

REVISION: 1



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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AT&T SITE NUMBER: **CTL02014**

BU #: **876316**
SECONDINO PROPERTY

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EXISTING
147'-0" MONOPOLE

ISSUED FOR:

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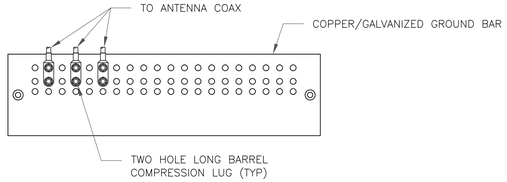
0	4/12/22	JTS	CONSTRUCTION	MTJ
1	6/2/22	JTS	CONSTRUCTION	KT

STATE OF CONNECTICUT
No. 23924
LICENSED PROFESSIONAL ENGINEER
6/2/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: G-1

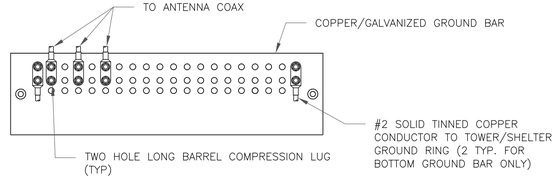
REVISION: 1



NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

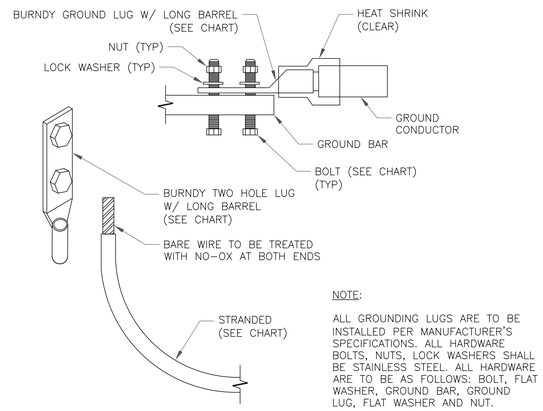


NOTES:

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

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

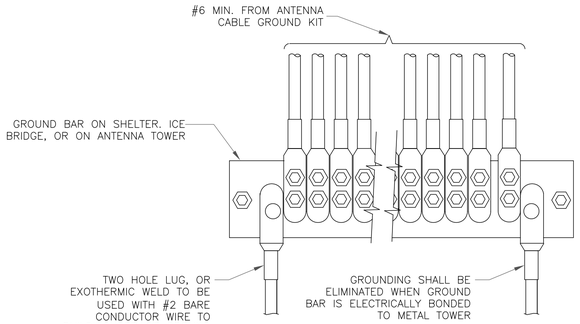
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



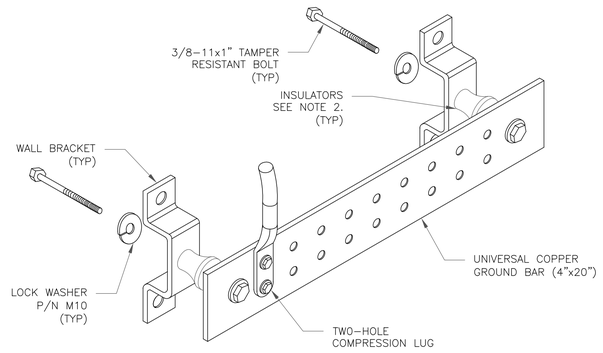
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

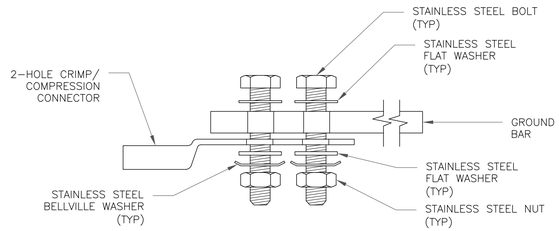


NOTES:

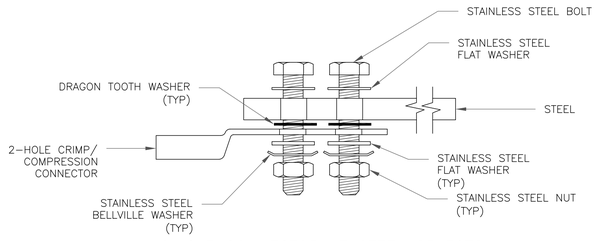
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

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

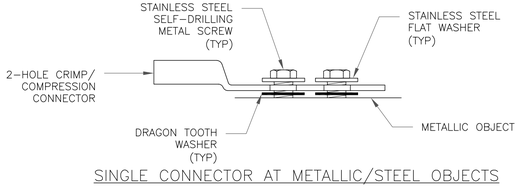
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

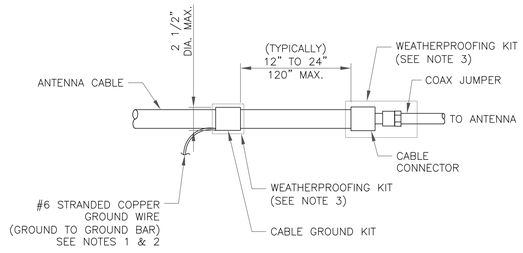


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

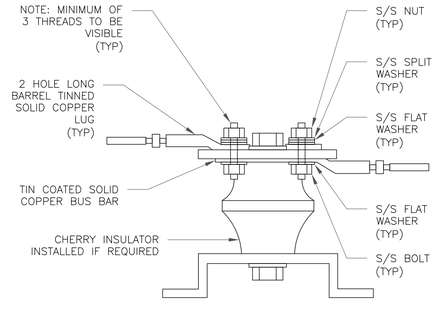
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

AT&T
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AT&T SITE NUMBER: **CTL02014**

BU #: **876316**
SECONDINO PROPERTY

21 ACORN ROAD
BRANFORD, CT 06405

EXISTING
147'-0" MONOPOLE

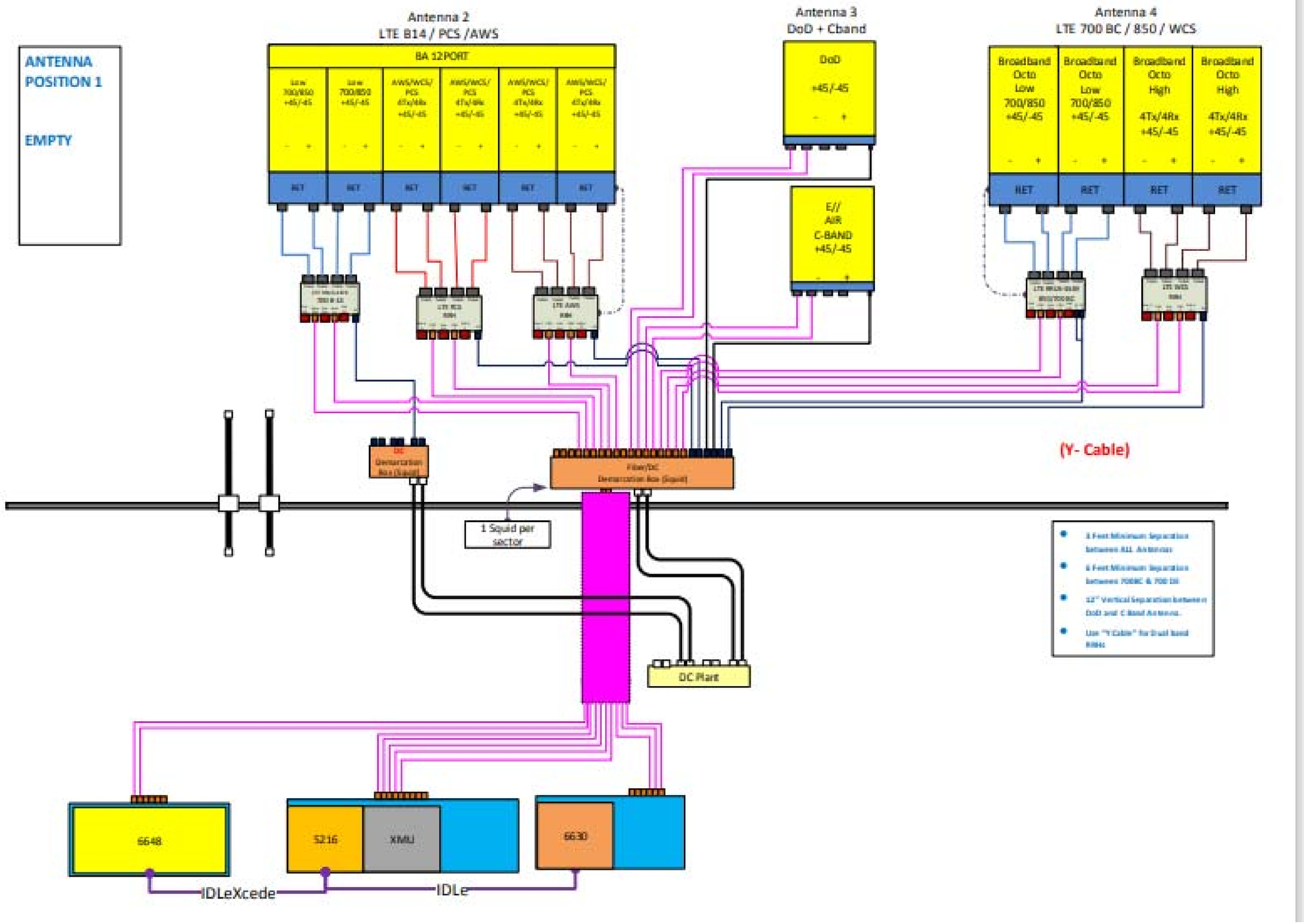
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/12/22	JTS	CONSTRUCTION	MTJ
0	4/12/22	JTS	CONSTRUCTION	MTJ
1	6/2/22	JTS	CONSTRUCTION	KT

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: G-2

REVISION: 1


ANTENNA POSITION 1
EMPTY
Antenna 2
LTE B14 / PCS /AWS
8A 12PORT
Low 700/850 +45/-45
Low 700/850 +45/-45
AWS/WCS/ PCS 4Tx/4Rx +45/-45
AWS/WCS/ PCS 4Tx/4Rx +45/-45
AWS/WCS/ PCS 4Tx/4Rx +45/-45
AWS/WCS/ PCS 4Tx/4Rx +45/-45
RET
Antenna 3
DoD + Cband
DoD
+45/-45
E// 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
(Y- Cable)
DC Demarcation Box (Squid)
Fiber/DC Demarcation Box (Squid)
1 Squid per sector
DC Plant
6648
5216
XMU
6630
IDLeXcede
IDLe
6 Feet Minimum Separation between ALL Antennas
6 Feet Minimum Separation between 700BC & 700 DX
12" Vertical Separation between DoD and C Band Antennas.
Use "Y Cable" for Dual Band RRH

ANTENNA POSITION 1

EMPTY

Antenna 2
LTE B14 / PCS /AWS

BA 12PORT

Low 700/850 +45/-45

Low 700/850 +45/-45

AWS/WCS/ PCS 4Tx/4Rx +45/-45

AWS/WCS/ PCS 4Tx/4Rx +45/-45

AWS/WCS/ PCS 4Tx/4Rx +45/-45

AWS/WCS/ PCS 4Tx/4Rx +45/-45

RET RET RET RET RET RET

Antenna 3
DoD + Cband

DoD
+45/-45
- +

E//
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

(Y- Cable)

DC Generation Box (Squid)

Fiber/DC Generation Box (Squid)

1 Squid per sector

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 Antennas.
- Use "Y Cable" for Dual Band RRHs

6648

5216

XMU

6630

IDLeXcede

IDLe

ANTENNA POSITION 1

EMPTY

Antenna 2
LTE 814 / PCS /AWS

BA 12PORT

Low 700/850 +45/-45 | Low 700/850 +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45

RET | RET | RET | RET | RET | RET

Antenna 3
DoD + Cband

DoD
+45/-45

E// 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

(Y- Cable)

1 Squid per sector

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 RRH

6648

5216 | XMU

6630

IDLeXcede

IDLe