

September 19, 2023

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

RE: **Notice of Exempt Modification for Verizon
Crown #876315_Crown_VZW
1027 Racebrook Road, Woodbridge, CT 06525
Latitude: 41.316666 / Longitude: -73.011388**

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 1027 Racebrook Road, Woodbridge, CT 06525. The property is owned by The Tradition Golf Club at Oak Lane LLC and the tower is owned by Crown Castle. Verizon now intends to add one (1) interference mitigation filter to be installed at the 127-foot level of the tower of the 150-foot monopole. 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:

(1) Kaelus BSF0020F3V1-1 Twin Bandstop 900MHZ Interference Mitigation Filter

The proposed work in this application only pertains to the installation of interference mitigation filter(s) and does not involve any additional equipment that may be called out in the Mount Analysis and/or in Table 1 of the Structural Analysis Reports.

The facility was approved by the Town of Woodbridge, Building Permit No. 9937 on January 21, 1998. Please see attached.

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 Beth Heller and Acting ZEO Kristine Sullivan for the municipality. A copy is also being sent to The Tradition Golf Club at Oak Lane LLC as the property owner and Crown Castle is the tower owner. The proposed modifications will not result in an increase in the height of the existing tower.

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

The Foundation for a Wireless World.
CrownCastle.com

3. 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.
4. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
5. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon 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:

First Selectman Beth Heller
Woodbridge Town Hall
11 Meetinghouse Lane
Woodbridge, CT 06525
203-389-3400

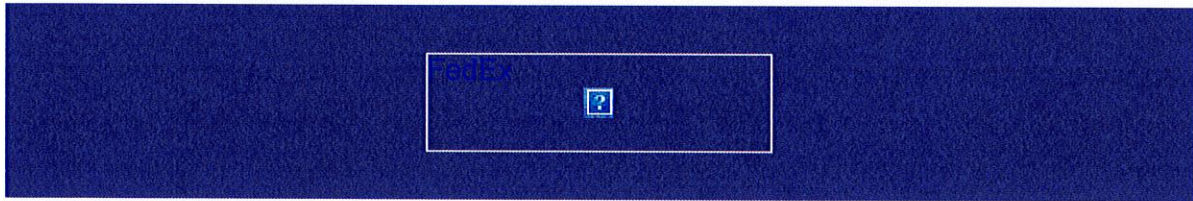
Kristine Sullivan, Acting Zoning Enforcement Officer
Woodbridge Town Hall
11 Meetinghouse Lane
Woodbridge, CT 06525
203-389-3406

The Tradition Golf Club at Oak Lane LLC, Property Owner
1027 Racebrook Road
Woodbridge, CT 06525
203-397-5103

Crown Castle, Tower Owner

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773364643334: Your package has been delivered
Date: Tuesday, September 19, 2023 10:37:12 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Hi. Your package was
delivered Tue, 09/19/2023 at
10:28am.



Delivered to 11 MEETINGHOUSE LN, WOODBRIDGE, CT 06525
Received by G.SHAW

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	773364643334
FROM	Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581
TO	Woodbridge Town Hall First Selectman Beth Heller 11 Meetinghouse Lane WOODBIDGE, CT, US, 06525
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 9/18/2023 05:50 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	WOODBIDGE, CT, US, 06525
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773364666552: Your package has been delivered
Date: Tuesday, September 19, 2023 10:36:22 AM

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FedEx



Hi. Your package was
delivered Tue, 09/19/2023 at
10:30am.



Delivered to 11 MEETINGHOUSE LN, WOODBRIDGE, CT 06525
Received by C.TRAZSKI

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	773364666552
FROM	Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581
TO	Woodbridge Town Hall Kristine Sullivan, Acting ZEO 11 Meetinghouse Lane WOODBIDGE, CT, US, 06525
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 9/18/2023 05:50 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	WOODBIDGE, CT, US, 06525
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773364690123: Your package has been delivered
Date: Tuesday, September 19, 2023 11:48:10 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Hi. Your package was
delivered Tue, 09/19/2023 at
11:42am.



Delivered to 1027 RACEBROOK ROAD, WOODBRIDGE, CT 06525
Received by R.RYAN

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	773364690123
FROM	Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581
TO	Tradition Golf Club - Oak Lane LLC 1027 Racebrook Road WOODBIDGE, CT, US, 06525
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 9/18/2023 05:50 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	WOODBIDGE, CT, US, 06525
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

020.07

**TOWN OF WOODBRIDGE, CONN.
BUILDING DEPARTMENT**

Date Issued January 21 19 98

**BUILDING
PERMIT** No. 9937

ISSUED TO SPRINT PCS (Michael Evanchick-Agent)
TO ERECT Installation of telecommunications TOWER & ANTENNAS and
associated telecommunications equipment per application
LOCATION specifications & approved plans 1116 JOHNSON ROAD

DO NOT BACKFILL until the following inspections are made and approved..

Footings
Foundation drains & Dampproofing

DO NOT INSULATE or COVER until the following inspections are made and approved.

Structural Plumbing
Electrical Heating
Alarm System Fireplace Hearth
Fireplace Smoke Chamber & Throat

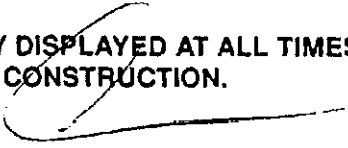
DO NOT COVER until the following inspections are made and approved.

Insulation

The following FINAL INSPECTIONS are necessary for a CERTIFICATE OF OCCUPANCY.

Structural Plumbing
Electrical Heating
Alarm System Air Conditioning
Water Heater Oil Burner
Water Pump

**THIS CARD MUST BE CONSPICUOUSLY DISPLAYED AT ALL TIMES
DURING THE PROGRESS OF CONSTRUCTION.**

Signed by 
Building Official

Location	Map ID	2903 1520 1027	Zone	A	9/8/2023
1027 RACEBROOK RD	2903 1520 1027	3			9/8/2023
THE TRADITIONS GOLF CLUB AT OAK LANE LLC					
1027 RACEBROOK RD, WOODBRIDGE, CT 06525	0773/0182	6/15/2016	Warranty Deed	No	1,600,000
BALDWIN WONNELL RACEBROOK LLC	0677/0270	11/8/2011	Quit Claim	No	0
BALDWIN MALCOLM W JR ETAL	0156/0019	9/25/1989	Quit Claim	No	0
BALDWIN CLARENCE F	0075/0293	10/4/1983	Quit Claim	No	0
Permit Number / Date / Permit Description					
B-22-85	7/26/2023	Replace (9) existing antenna with (9) new antenna. Replace (3) RRRH with (30 new. Replace (1) Raycab.			
E-22-216	7/6/2023	upgrade existing feeder to 200 amp. Replace Distribution panel. Install new 125 amp Branch circuit.			
B-22-120	7/6/2023	Add or replace antennas, ancillary equipment and ground equipment as per plans for an existing carri			
E-22-216	12/8/2022	upgrade existing feeder to 200 amp. Replace Distribution panel. Install new 125 amp Branch circuit.			
B-22-120	6/9/2022	Add or replace antennas, ancillary equipment and ground equipment as per plans for an existing carri			
B2019-258	12/4/2019	DECK-32 X 16 PRESSURE TREATED			
Census/Tract 1601					
Dev Map ID	SEE DEED				
GIS ID	633				
Route	Street Description	Paved			
District	TOPO	Rolling			
Utilities	Well, Septic				
Land Type					
Open Soace	Acres	490	Total Value	Quantity	Value
Primary Site	93.13	93.13	0	4.00	779,660
	1.50	0.00	84,200	17.00	617,890
				93.13	325,960
				1.50	58,940
Total	94.6300	93.13	1,015,500		
Assessment History / Per Year (2020-2021)					
	2023	2022	2021	2020	2019
Land	384,900	384,900	384,900	384,900	384,900
Building	779,660	779,660	779,660	779,660	776,370
Outbuilding	617,890	617,890	617,890	617,890	617,890
Total	1,782,450	1,782,450	1,782,450	1,779,160	1,779,160
Application Date:					
					93.13
Expiration Date:					
					465650
Comments					

Information may be deemed reliable, but not guaranteed.

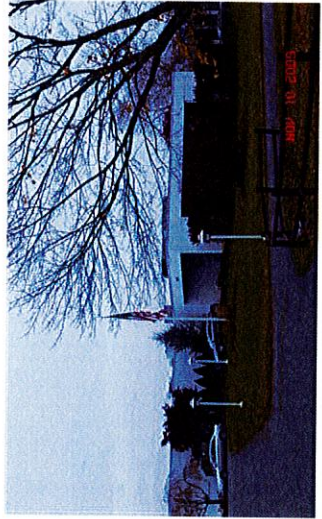
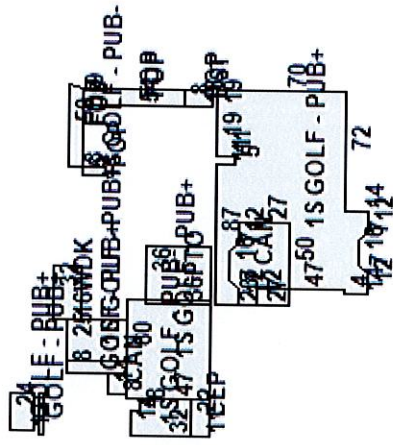
Revaluation Date: 10/1/2022

Unique ID: 102286

Woodbridge

Location: 1027 RACEBROOK RD

Unit



Commercial Building Description		Description	Area/Qty
Building Use	Special Purpose	Base Rate	20786
Class	Steel	Finished Raised Basement	9204
Overall Condition	Average	Unfinished Raised Basement	3748
Construction Quality	C+		
Stories	1.00		
Year Built	1960		
Remodel			
Percent Complete	100		
GLA			20786

Basement		Area/Qty
Basement Area	12952	

Attached Component Computations		
Type	Yr Bilt	Area/Qty
Open Porch	1960	384
Covered Loading Platform	1960	242
Open Porch	1960	128
Open Porch	1960	432
Canopy	1960	1455
Wood Deck	1960	512
Utility Storage	1960	128
Open Porch	1960	384
Open Porch	1960	432
Patio	1960	1296
Open Porch	1960	55
Canopy	1960	112

Detached Component Computations			
Type	Year	Condition	Area/Qty
Better Quality Shed	2000	Average/Fair	3456
Gazebo	2000	Average	176
Gazebo	2016		162
Golf Greens	2000	Good	8
Lights Double	2000	Average	2
Lights Single	2000	Poor	7
Lights Single	2000	Average	2
Patio Average	2000	Poor	9500
Patio Average	2000	Poor	1230

Information may be deemed reliable, but not guaranteed.

Location: 1027 RACEBROOK RD		Map Id: 2903 1520 1027	Zone: A	Date Printed: 9/8/2023		
Owner Of Record		Volume/Page	Date	Sales Type	Valid	Sale Price
THE TRADITIONS GOLF CLUB AT OAK LANE LLC		0773/0182	6/15/2016	Warranty Deed	No	1,600,000
1027 RACEBROOK RD, WOODBRIDGE, CT 06525				Exempt		
Prior Owner History						
BALDWIN WONNELL RACEBROOK LLC		0677/0270	11/8/2011	Quit Claim	No	0
BALDWIN MALCOLM W JR ETAL		0156/0019	9/25/1989	Quit Claim	No	0
BALDWIN CLARENCE F		0075/0293	10/4/1963	Quit Claim	No	0
Permit Number	Date	Permit Description				
B-22-85	7/26/2023	Replace (9) existing antenna with (9) new antenna. Replace (3) RRH with (30) new. Replace (1) Rcvcap.				
E-22-216	7/16/2023	upgrade existing feeder to 200 amp. Replace Distribution panel. Install new 125 amp Branch circuit.				
B-22-120	7/16/2023	Add or replace antennas, ancillary equipment and ground equipment as per plans for an existing carri				
E-22-216	12/8/2022	upgrade existing feeder to 200 amp. Replace Distribution panel. Install new 125 amp Branch circuit.				
B-22-120	6/9/2022	Add or replace antennas, ancillary equipment and ground equipment as per plans for an existing carri				
B2019-258	12/4/2019	DECK-32 X 16 PRESSURE TREATED				
Supplemental Data						
Census/Tract	1601	VisionPID	633	Total Land Value	1,015,500	
Dev Map ID	SEE DEED	Street Description	Paved	Total Building Value	1,113,800	
GIS ID		TOPO	Rolling	Total Outldg Value	882,700	
Route				Total Market Value	3,012,000	
District						
Utilities		Well, Septic				
Acres				State Item Codes		
Land Type	Acres	490	Total Value	Code	Quantity	Value
Open Space	93.13	93.13	0	22-Commercial Building	4.00	779,660
Primarv Site	1.50	0.00	84,200	25-Commercial Outbuilding	17.00	617,890
				63-Open Space	93.13	325,960
				21-Commercial Land	1.50	58,940
Total	94.6300	93.13	1,015,500			
Assessment History (Prior Years as of Oct 1)						
	2023	2022	2021	2020	2019	
Land	384,900	384,900	384,900	384,900	384,900	Open Space
Building	779,660	779,660	779,660	779,660	776,370	
Outbuilding	617,890	617,890	617,890	617,890	617,890	
Total	1,782,450	1,782,450	1,782,450	1,782,450	1,779,160	
Comments						
Application Date: 93.13 465650 Expiration Date: 93.13 465650						

Information may be deemed reliable, but not guaranteed.

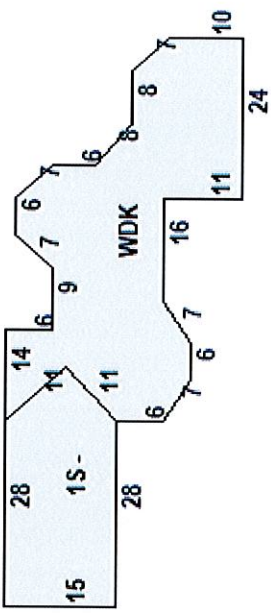
Revaluation Date: 10/1/2022

Woodbridae

Unique ID: 102286

Location: 1027 RACEBROOK RD

Unit



Commercial Building Description	Description	Area/Qty
Building Use	Office	480
Class	Wood Frame	
Overall Condition	Average	
Construction Quality	C	
Stories	1.00	
Year Built	1975	
Remodel		
Percent Complete	100	
GLA		480

Basement		
Basement Area	0	

HVAC		
Heating Type	None	
Fuel Type	Coal Or Wood	
Cooling Type	None	

Attached Component Computations		
Type	Yr. Bilt	Area/Qty
Wood Deck	1975	1054

Interior		
Floors	Carpet	
Walls	Drwwall	
Wall Height		

Exterior		
Exterior Walls	Vinyl Siding	

Roof		
Roof Type	Gable	
Roof Cover		

Special Features		

Detached Component Computations					
Type	Year	Condition	Area/Qty	Type	Area/Qty
Frame Shed	2000	Very Good/C	200		
Frame Shed	2000	Average	80		
Frame Shed	2000	Poor	80		
Frame Shed	2000	Poor	80		
Paving	2000	Very Poor	20000		
Tennis Courts	1991	Average	8		

Information may be deemed reliable, but not guaranteed.

Location		1027 RACEBROOK RD		2903 1520 1027		Zone A		9/8/2023	
				3				9/8/2023	
THE TRADITIONS GOLF CLUB AT OAK LANE LLC		1027 RACEBROOK RD, WOODBRIDGE, CT 06525		0773/0182		6/15/2016		Warranty Deed	
BALDWIN WONNELL RACEBROOK LLC				0677/0270		11/8/2011		Quit Claim	
BALDWIN MALCOLM W JR ETAL				0156/0019		9/25/1989		Quit Claim	
BALDWIN CLARENCE F				0075/0293		10/4/1963		Quit Claim	
Permit Number		Date		Description		Quantity		Value	
B-22-85		7/26/2023		Replace (9) existing antenna with (9) new antenna. Replace (3) RRH with (30 new. Replace (1) Raycap.				1,015,500	
E-22-216		7/6/2023		upgrade existing feeder to 200 amp. Replace Distribution panel. Install new 125 amp Branch circuit.				1,113,800	
B-22-120		7/6/2023		Add or replace antennas. ancillary equipment and ground equipment as per plans for an existing carri				882,700	
E-22-216		12/8/2022		upgrade existing feeder to 200 amp. Replace Distribution panel. Install new 125 amp Branch circuit.				3,012,000	
B-22-120		6/9/2022		Add or replace antennas. ancillary equipment and ground equipment as per plans for an existing carri					
R2019-258		12/4/2019		DECK-32 X 16 PRESSURE TREATED					
Census/Tract		1601		VisionPID		633		Total Land Value	
Dev Map ID		SEE DEED		Street Description		Paved		Total Building Value	
GIS ID				TOPO		Rolling		Total Outldg Value	
Route								Total Market Value	
District									
Utilities		Well, Septic							
Land Type		Acres		2022		2021		2020	
Open Space		93.13		384,900		384,900		384,900	
Primarv Site		1.50		0.00		84,200		0	
Total		94.6300		93.13		1,015,500			
Land		384,900		384,900		384,900		384,900	
Building		779,660		779,660		779,660		779,660	
Outbuilding		617,890		617,890		617,890		617,890	
Total		1,782,450		1,782,450		1,782,450		1,779,160	
		1,782,450		1,782,450		1,782,450		1,779,160	
		93.13		93.13		93.13		93.13	
		465650		465650		465650		465650	
Totals		93.13		465650		465650		465650	
		Application Date:		2019		2020		2021	
				Open Space		Open Space		Open Space	
				384,900		384,900		384,900	
				776,370		779,660		779,660	
				617,890		617,890		617,890	
				1,779,160		1,782,450		1,782,450	
		Expiration Date:		2019		2020		2021	
				Acres		Acres		Acres	
				93.13		93.13		93.13	
				465650		465650		465650	
				93.13		93.13		93.13	
				465650		465650		465650	

Information may be deemed reliable, but not guaranteed.

Revaluation Date: 10/1/2022

Unique ID: 102286

Woodbridae

Location: 1027 RACEBROOK RD

Unit

Commercial Building Description

Description	Area/Qty
Building Use	3528
Class	Special Purpose
Overall Condition	Reinforced Concrete
Construction Quality	Average
Stories	1.00
Year Built	1960
Remodel	
Percent Complete	100
GLA	3528

Basement

Basement Area 0

HVAC

Heating Type None
 Fuel Type Coal Or Wood
 Cooling Type None

Interior

Floors Concr-Finished
 Walls Masonry

Exterior

Exterior Walls Reinforced Concrete

Roof Type Enamel Metal Shingle
 Roof Cover Flat

Special Features

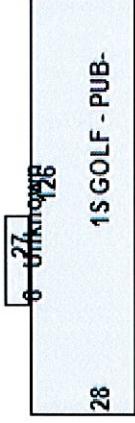


Photo Not Available

Detached Component Computations

Type	Year	Condition	Area/Qty	Type	Year	Condition	Area/Qty
Frame Shed	1960	Poor	864				

Woodbridae

Unique ID: 102286

Card No: 4 Of 4

Location	Map ID	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	Acres	2019	2020	2021	2022	2023	Acres	Value	Acres	Value																
1027 RACEBROOK RD	2903 1520 1027	A																				9/8/2023															
																						9/8/2023															
THE TRADITIONS GOLF CLUB AT OAK LANE LLC	0773/0182	6/15/2016	Warranty Deed	No	1,600,000																																
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BALDWIN CLARENCE F	0075/0293	10/4/1983	Quit Claim	No	0																																
Permits/Work	Date	Description																																			
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Dev Map ID	SEE DEED	Street Description	Paved																																		
GIS ID		TOPO	Rollina																																		
Route																																					
District																																					
Utilities		Well, Septic																																			
Land Type		Acres	490	Total Value	Code	Quantity	Value																														
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Total	94.6300	93.13	1,015,500	1,015,500																																	
Land	384,900	384,900	384,900	384,900	384,900	Open Space	93.13	465650																													
Building	779,660	779,660	779,660	779,660	776,370																																
Outbuilding	617,890	617,890	617,890	617,890	617,890																																
Total	1,782,450	1,782,450	1,782,450	1,782,450	1,779,160																																
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																			Application Date:						Expiration Date:												

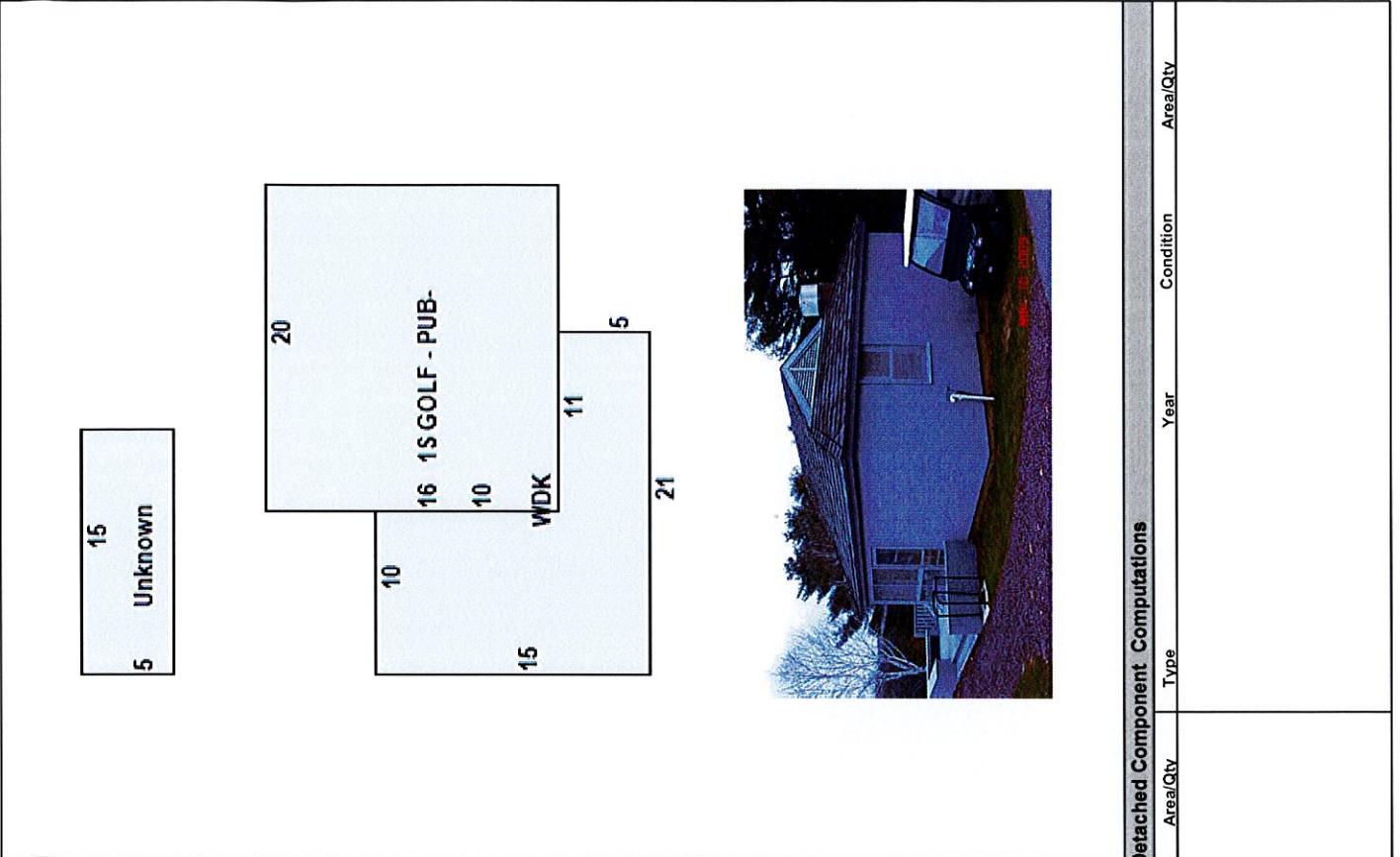
Information may be deemed reliable, but not guaranteed.

Revaluation Date: 10/1/2022

Woodbridae

Unique ID: 102286

Location: 1027 RACEBROOK RD



Commercial Building Description		Description	Area/Qty
Building Use	Special Purpose	Base Rate	320
Class	Wood Frame		
Overall Condition	Average		
Construction Quality	C		
Stories	1.00		
Year Built	1985		
Remodel			
Percent Complete	100		
GLA	320		
Basement			
Basement Area	0		
HVAC			
Heating Type	None		
Fuel Type	Coal Or Wood		
Cooling Type	None		
Interior			
Floors	Concr-Finished		
Walls	Drywall		
Wall Height			
Exterior			
Exterior Walls	Below Average		
Roof Type			
Roof Cover	Gable		
Special Features			

Attached Component Computations			
Type	Yr Bit	Area/Qty	
Wood Deck	1985	205	
XXXX	1985	75	

Detached Component Computations			
Type	Year	Condition	Area/Qty

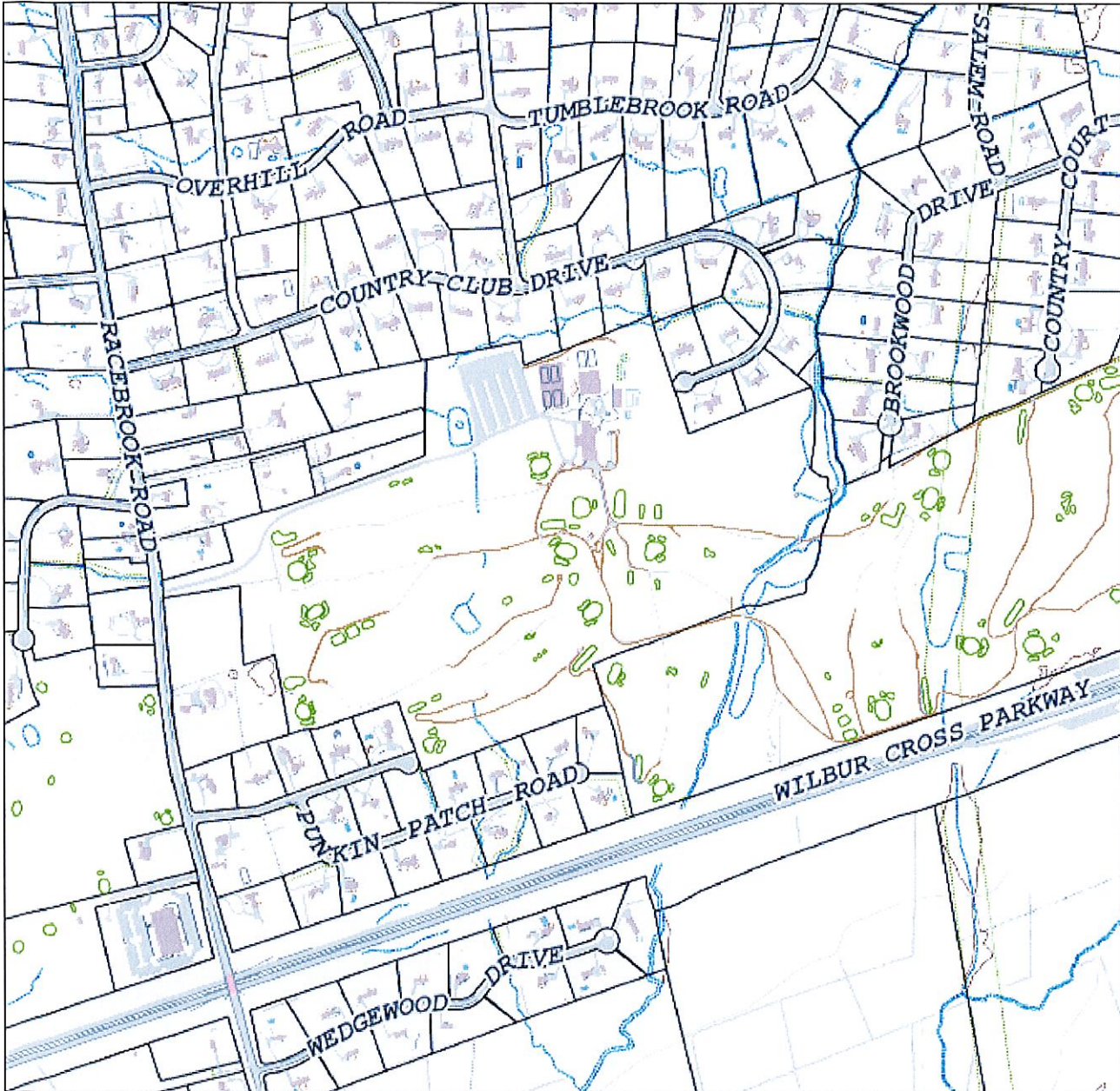
Information may be deemed reliable, but not guaranteed.

Town of Woodbridge

Geographic Information System (GIS)



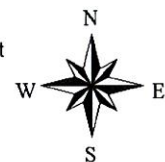
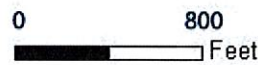
Date Printed: 9/8/2023



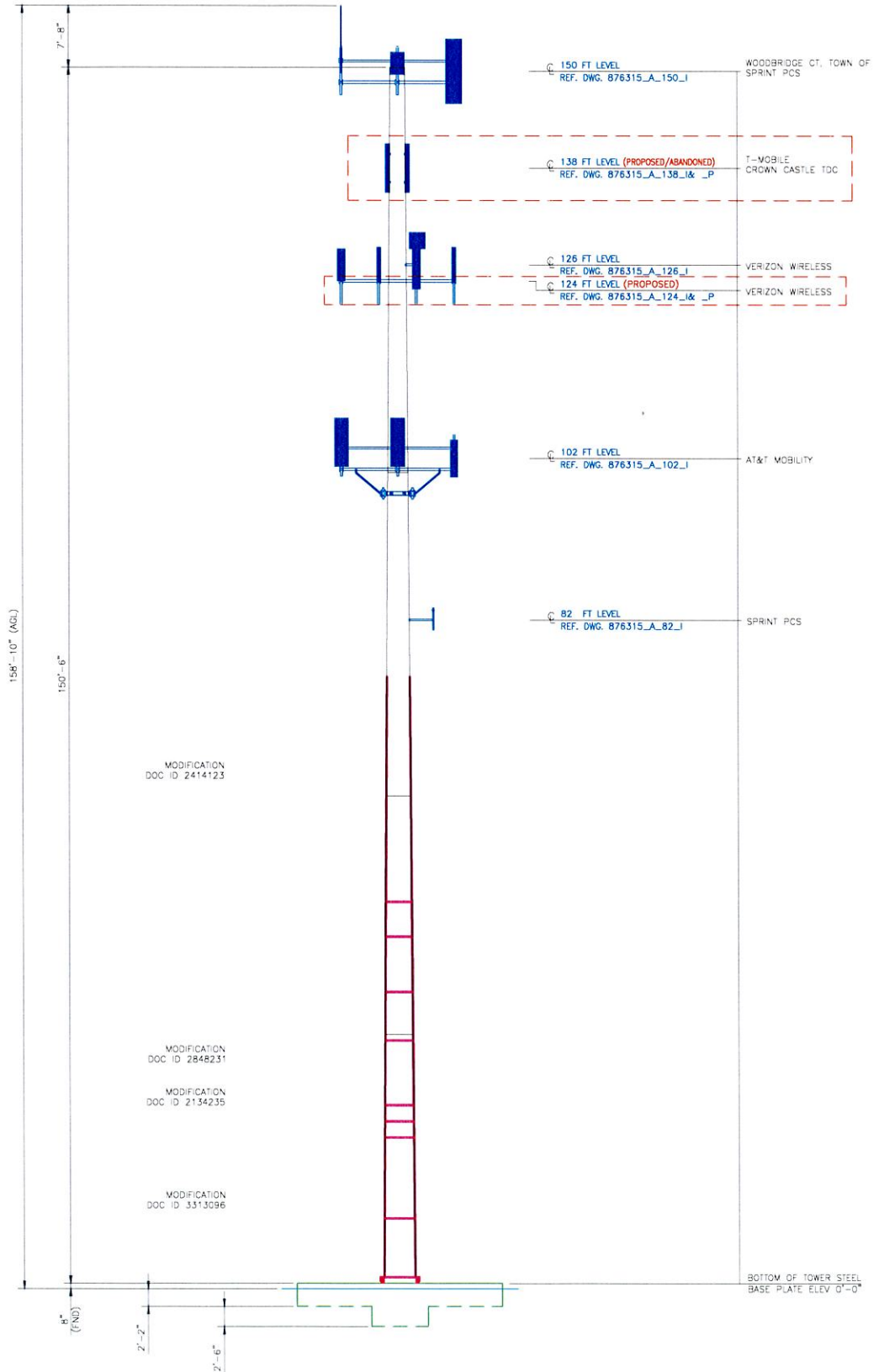
MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Woodbridge and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 800 feet



158 FT 2 IN TIP OF EQUIPMENT



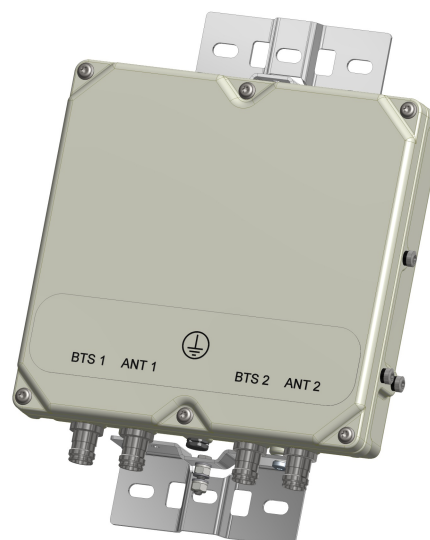
BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



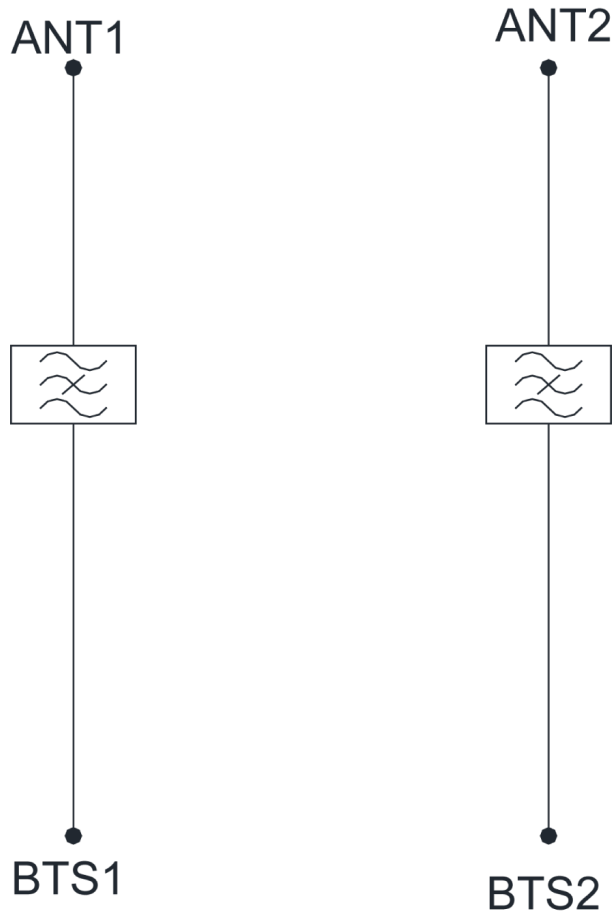
TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
MECHANICAL		
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

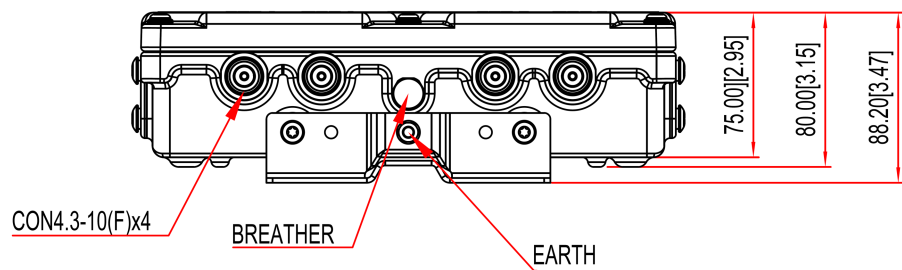
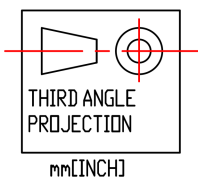
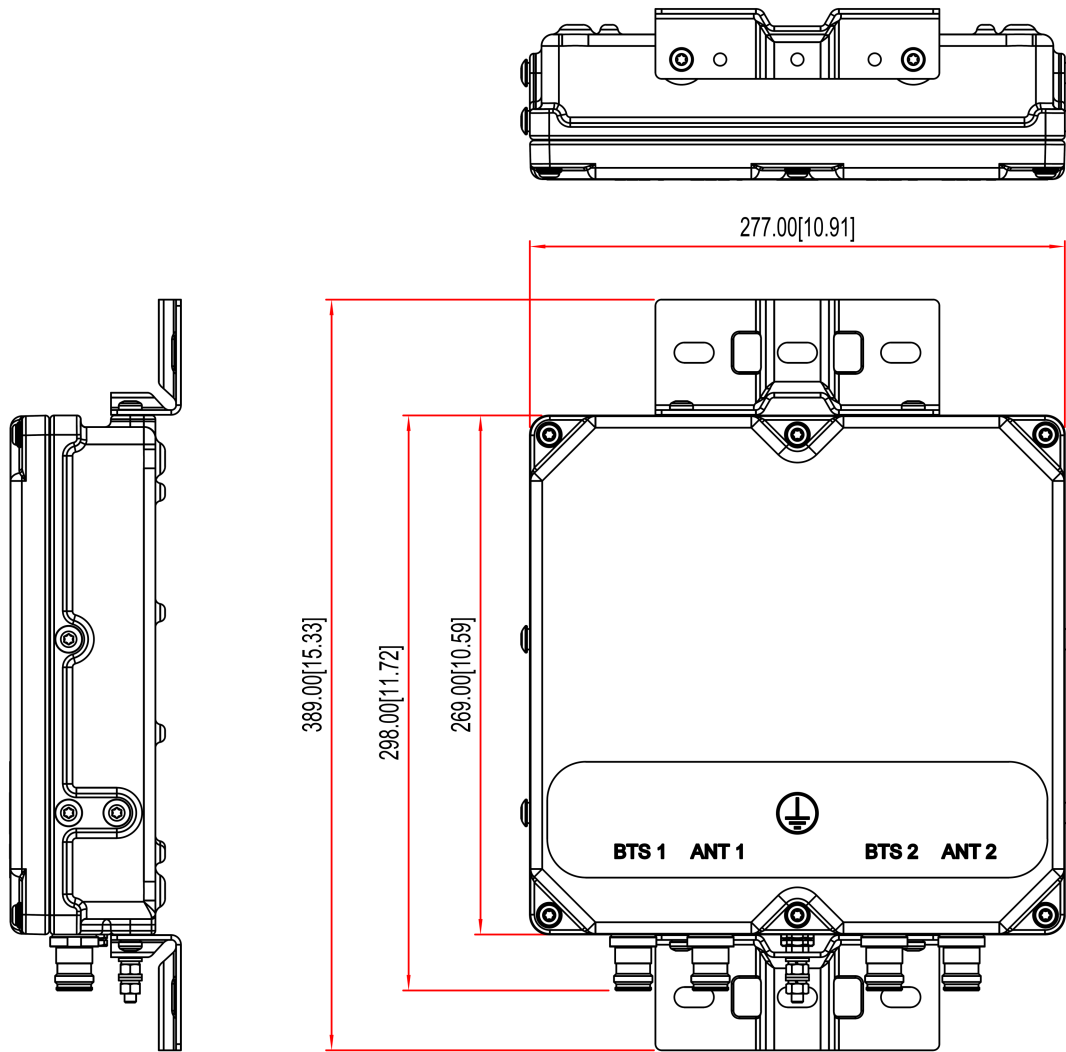
ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



Colliers Engineering & Design CT, PC
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10206437
Colliers Engineering & Design CT, PC Project #:23777089 (Rev. 1)

July 10, 2023

Site Information

Site ID: 5000385363-VZW / WOODBRIDGE S CT
Site Name: WOODBRIDGE S CT
Carrier Name: Verizon Wireless
Address: 1116 Johnson Rd
Woodbridge, Connecticut 06525
New Haven County
Latitude: 41.316833°
Longitude: -73.011583°

Structure Information

Tower Type: Monopole
Mount Type: 14.00-Ft Platform

FUZE ID # 17123837

Analysis Results

Platform: 72.6% Pass*

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

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Frank Centone



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 325183, dated August 5, 2021</i>
<i>Mount Mapping Report</i>	<i>RKS Design & Engineering, LLC, Project # 21777143A, Dated November 8, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project # 21777143A, Dated December 2, 2021</i>
<i>Final Loading Configuration</i>	<i>Filter Add Scope Provided by Verizon Wireless</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.991
Seismic Parameters:	S_s : 0.201 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
124.80	127.00	6	JMA Wireless	MX06FRO660-02	Retained
		3	Samsung	MT6407-77A	
		1	Amphenol Antel	BXA-70080-4CF	
		2	Antel	BXA-80063/4CF	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	-	GPS	
		2	KAelus	BSF0020F3V1-1	Added

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. It is assumed that the mount modifications listed under Sources of Information have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Standoff</i>	25.5 %	<i>Pass</i>
<i>Grating Angle</i>	34.9 %	<i>Pass</i>
<i>Cross Member</i>	24.7 %	<i>Pass</i>
<i>Face Horizontal</i>	72.6 %	<i>Pass</i>
<i>Mount Pipe</i>	37.1 %	<i>Pass</i>
<i>Support Rail</i>	41.5 %	<i>Pass</i>
<i>Kicker</i>	6.9 %	<i>Pass</i>
<i>Mount Connection</i>	15.6 %	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	72.6%
---	--------------

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	34.0	34.0	49.5	49.5
0.5	42.5	42.5	64.3	64.3
1	50.1	50.1	78.1	78.1

Notes:

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

Requirements:

The existing mount is **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

Contractor to verify that all modifications and equipment are installed per previous mount modification analysis done by Maser Consulting Connecticut, Project #: 21777143A, dated December 2, 2021.

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000385363

SMART Project #: 10206437

Fuze Project ID: 17123837

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

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

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

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

OR

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

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

Issue:

Contractor to verify that all modifications and equipment are installed per previous mount modification analysis done by Maser Consulting Connecticut, Project #: 21777143A, dated December 2, 2021..

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

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

Comments:

--

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

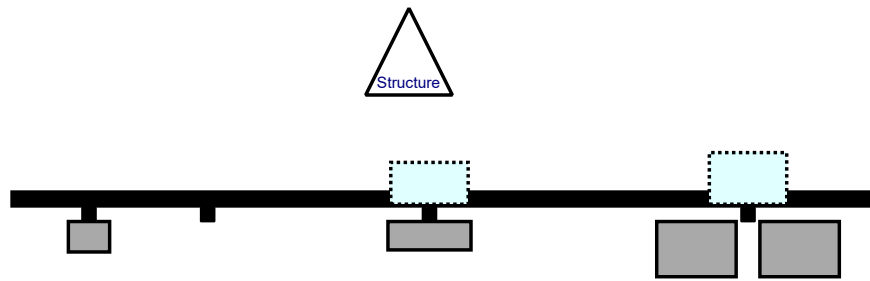
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

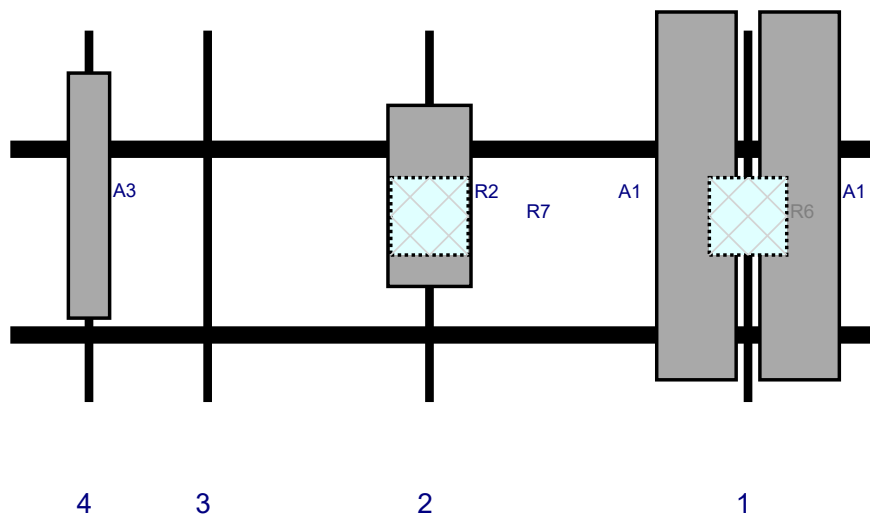
Certifying Individual:

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

Plan View

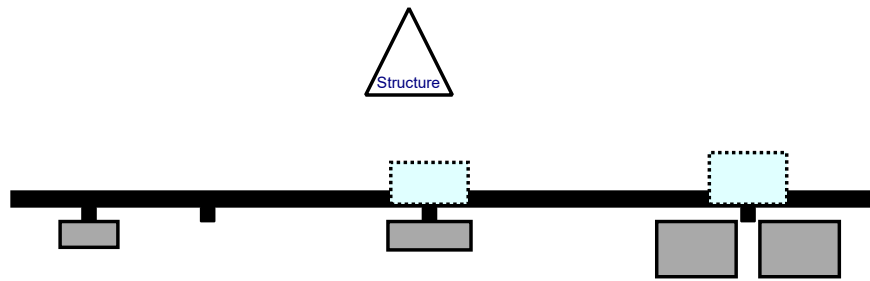


Front View - Looking at Structure

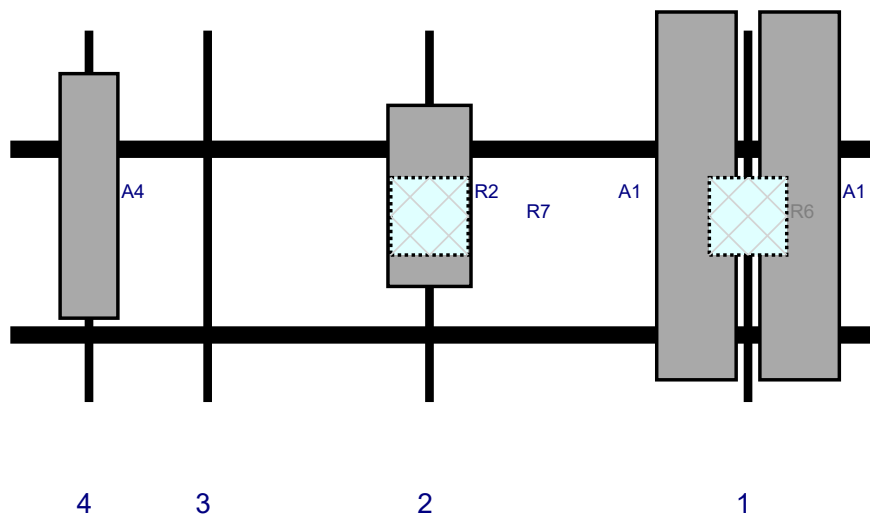


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MX06FRO660-02	71.3	15.4	143	1	a	Front	32.04	10	Retained	
A1	MX06FRO660-02	71.3	15.4	143	1	b	Front	32.04	-10	Retained	
R6	B2/B66A RRR-BR049	15	15	143	1	a	Behind	36	0	Retained	
R2	MT6407-77A	35.1	16.1	81.25	2	a	Front	32.04	0	Retained	
R7	B5/B13 RRR-BR04C	15	15	81.25	2	a	Behind	36	0	Retained	
A3	BXA-70080-4CF	47.5	8	15.25	4	a	Front	31.98	0	Retained	
OVP	RVZDC-6627-PF-48	29.5	16.5			Member				Retained	
LIGHT	Single light	8	4			Member				Retained	11/08/2021

Plan View

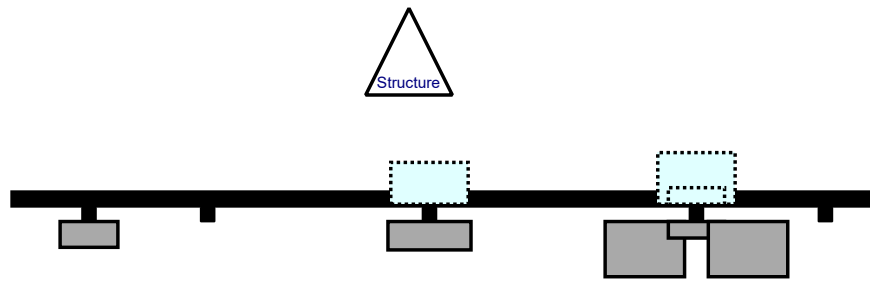


Front View - Looking at Structure

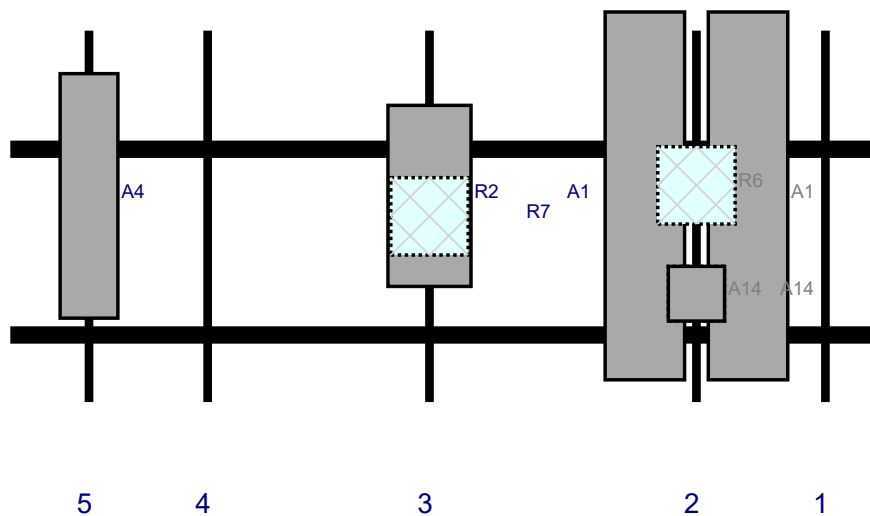


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MX06FRO660-02	71.3	15.4	143	1	a	Front	32.04	10	Retained	
A1	MX06FRO660-02	71.3	15.4	143	1	b	Front	32.04	-10	Retained	
R6	B2/B66A RRH-BR049	15	15	143	1	a	Behind	36	0	Retained	
R2	MT6407-77A	35.1	16.1	81.25	2	a	Front	32.04	0	Retained	
R7	B5/B13 RRH-BR04C	15	15	81.25	2	a	Behind	36	0	Retained	
A4	BXA-80063/4CF	47.4	11.2	15.25	4	a	Front	32.04	0	Retained	

Plan View




Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MX06FRO660-02	71.3	15.4	133	2	a	Front	32.04	10	Retained	
A1	MX06FRO660-02	71.3	15.4	133	2	b	Front	32.04	-10	Retained	
R6	B2/B66A RRH-BR049	15	15	133	2	a	Behind	30	0	Retained	
A14	BSF0020F3V1-1	10.6	10.9	133	2	a	Behind	51	0	Added	
A14	BSF0020F3V1-1	10.6	10.9	133	2	b	Front	51	0	Added	
R2	MT6407-77A	35.1	16.1	81.25	3	a	Front	32.04	0	Retained	
R7	B5/B13 RRH-BR04C	15	15	81.25	3	a	Behind	36	0	Retained	
A4	BXA-80063/4CF	47.4	11.2	15.25	5	a	Front	32.04	0	Retained	



	Antenna Mount Mapping Form (PATENT PENDING)		FCC #
			UNKNOWN
Tower Owner:	CROWN CASTLE	Mapping Date:	11/8/2021
Site Name:	CC: OAK LANE CC, INC. TOWER (SSUSA), VZW: NE WOODBRIDGE	Tower Type:	Monopole
Site Number or ID:	CC: 876315, VZW:467834	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	124.3

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

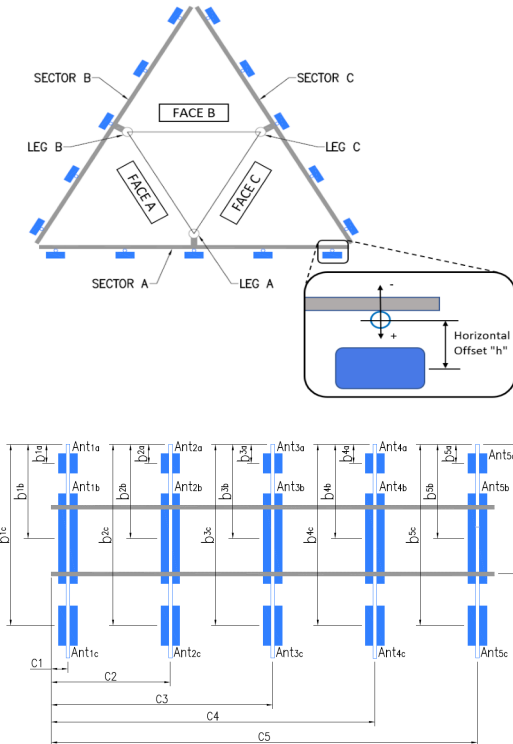
Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	13.50	C1	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	13.50
A2	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	91.25	C2	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	39.50
A3	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	134.25	C3	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	91.25
A4	PIPE 2.39"Ø X 0.16" X 72" LONG	59.50	158.25	C4	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	134.25
A5				C5	PIPE 2.39"Ø X 0.16" X 72" LONG	59.50	158.25
A6				C6			
B1	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	13.50	D1			
B2	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	91.25	D2			
B3	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	134.25	D3			
B4	PIPE 2.39"Ø X 0.16" X 72" LONG	59.50	158.25	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :
 Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) : 8.33
 Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) : 0.5
 Please enter additional information or comments below.

Tower Face Width at Mount Elev. (ft.): Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): 26.59
 For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)		Antenna Azimuth (Degrees)
Sector A										
Ant _{1a}	9442 RRH2x40-AWS	10.60	6.70	24.50		127.675	18.50	-6.50		146
Ant _{1b}	MGD3-800T0/5206.4	6.30	3.50	52.70		126.8	29.00	8.00	50.00	146
Ant _{1c}										
Ant _{2a}										
Ant _{2b}	UNKNOWN-PANEL	12.50	6.00	71.50		126.342	34.50	12.50	50.00	147
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	MGD3-800T0	6.30	3.50	52.70		126.8	29.00	7.50	50.00	148
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	BXA-70080-4CF-EDIN	8.00	5.90	47.50		126.946	27.75	12.50	50.00	148
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66						146
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1	TOTAL COAX (13): (12) 1.52"Ø, (1) 1.52"Ø HYBRID	26
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.		Photo #
Description of Obstruction:		
Type of Light:	Photo #	Additional Comments:
Lighting Technology:	Photo #	
Elevation (AGL) at base of light (Ft.):	Photo #	
Is a service loop available?	Photo #	
Is beacon installed on an extension?	Photo #	

Mapping Notes

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

Standard Conditions

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



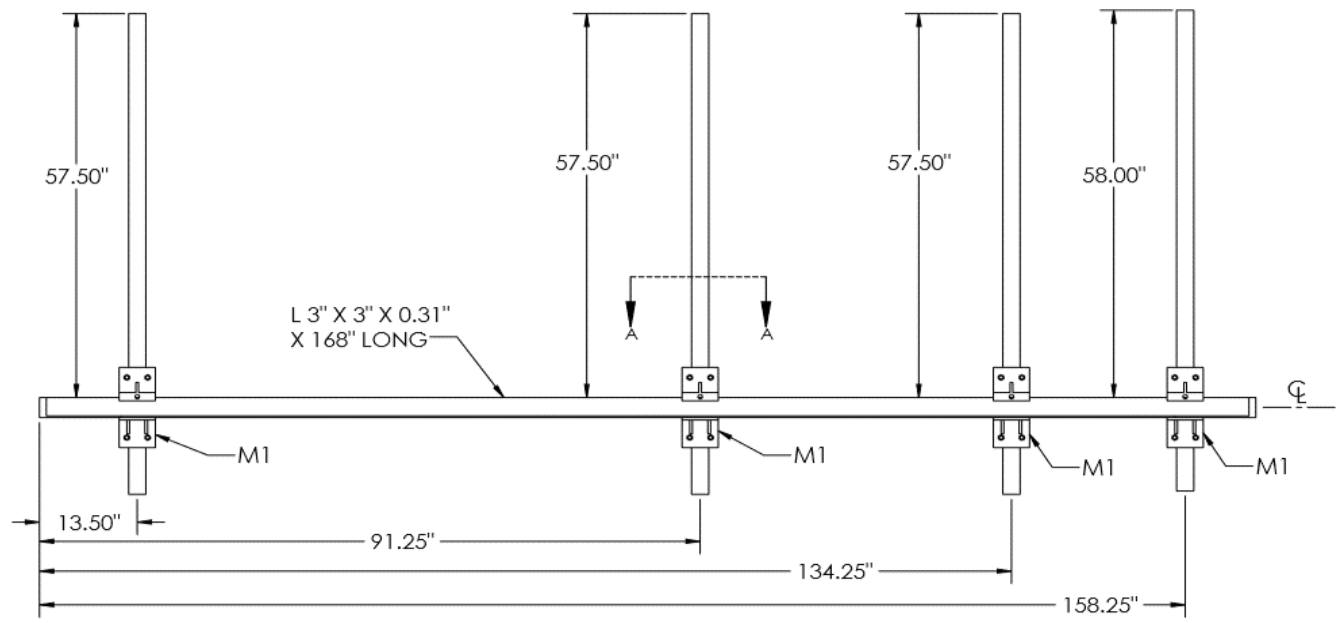
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

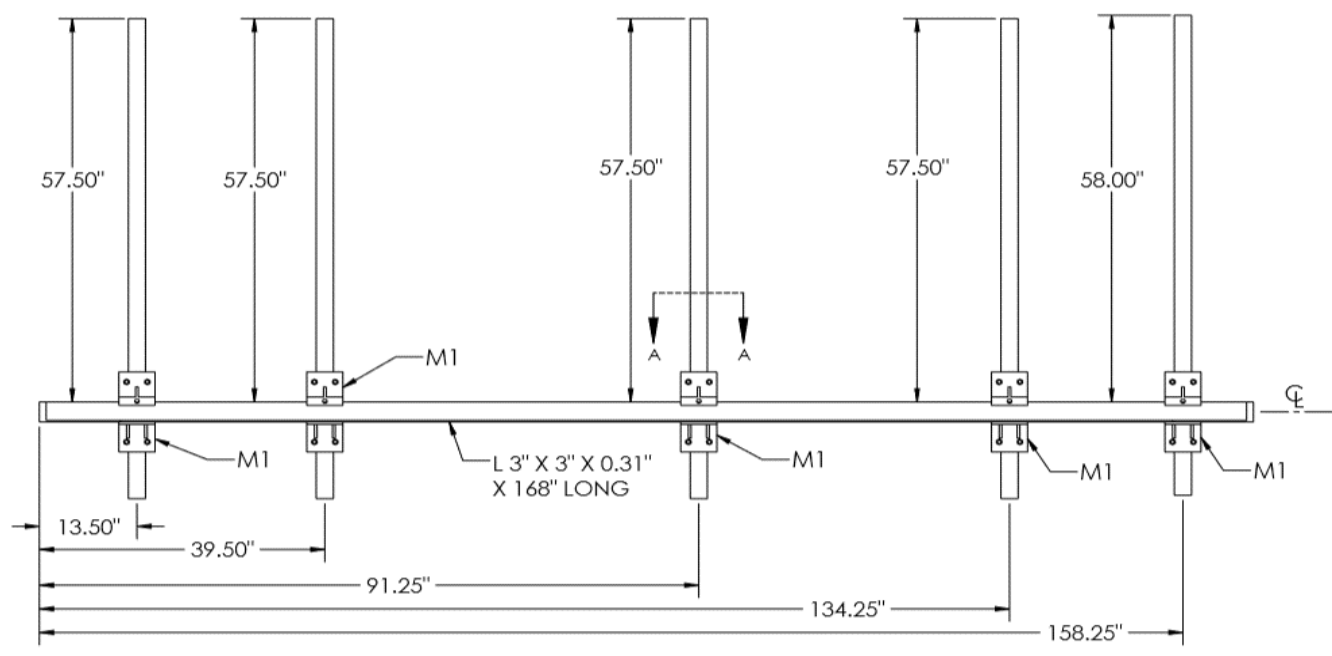
Tower Owner:	CROWN CASTLE	Mapping Date:	11/8/2021
Site Name:	CC: OAK LANE CC, INC. TOWER (SSUSA), VZW: NE WOODBRIDGE	Tower Type:	Monopole
Site Number or ID:	CC: 876315, VZW:467834	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	124.3

This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

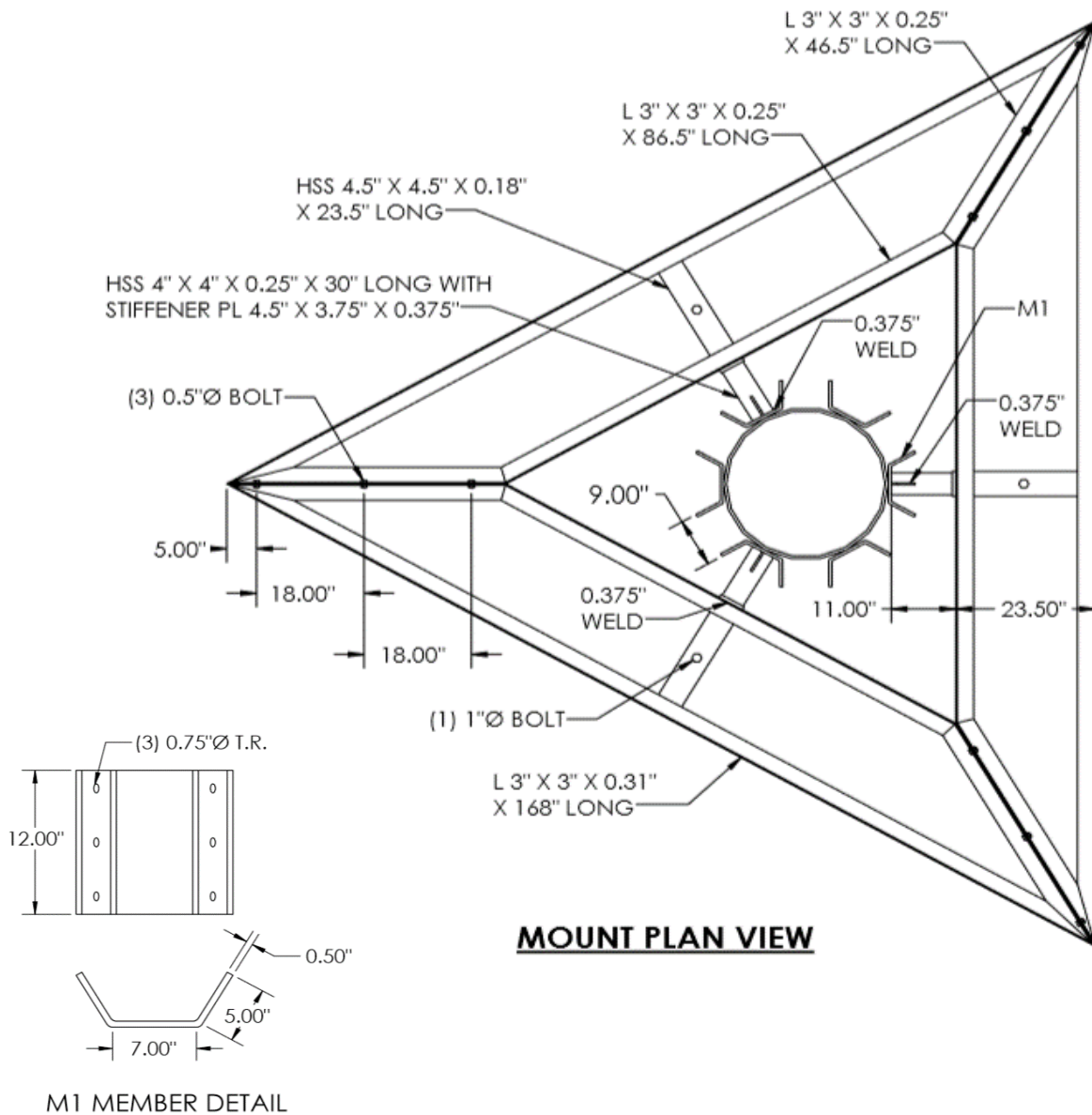
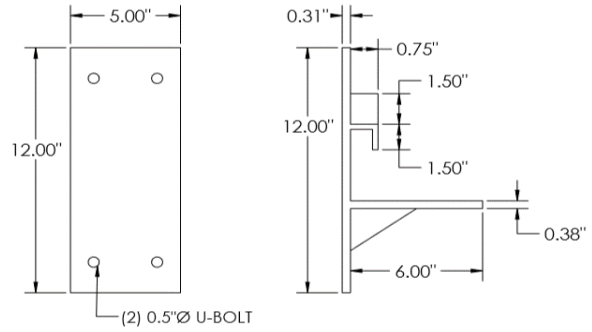
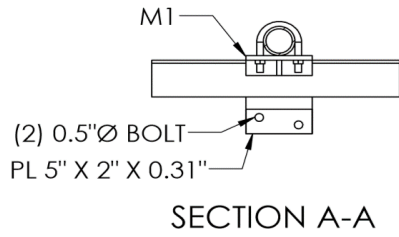
Please Insert Sketches of the Antenna Mount

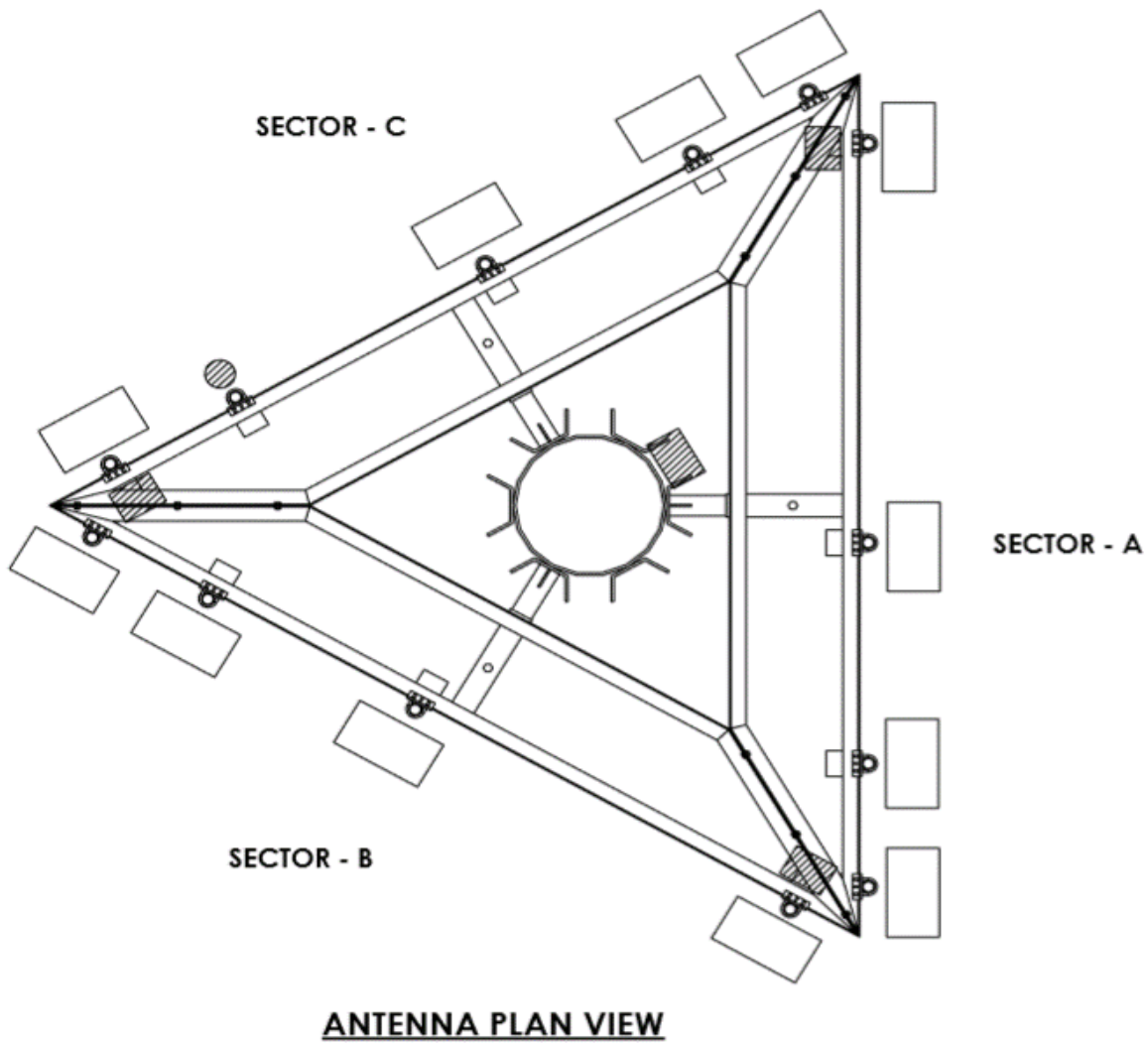


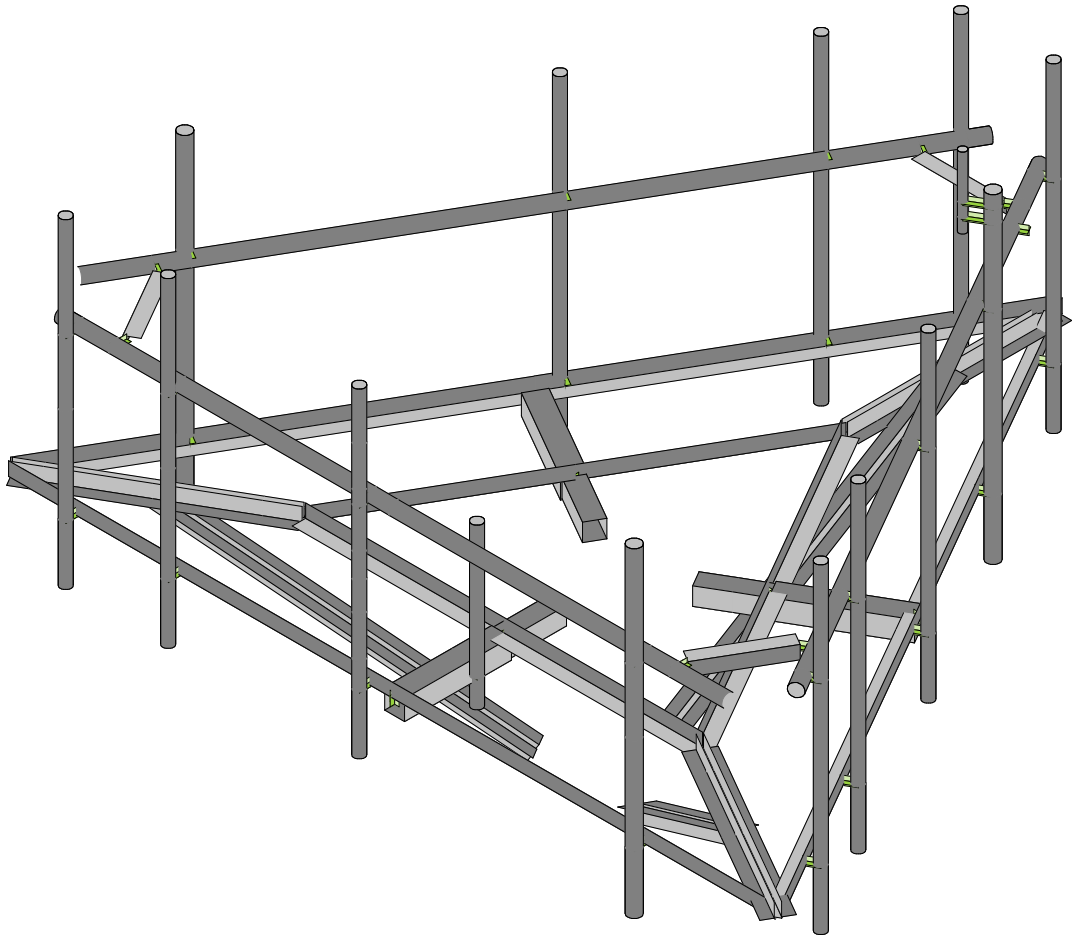
SECTOR - A & B



SECTOR - C



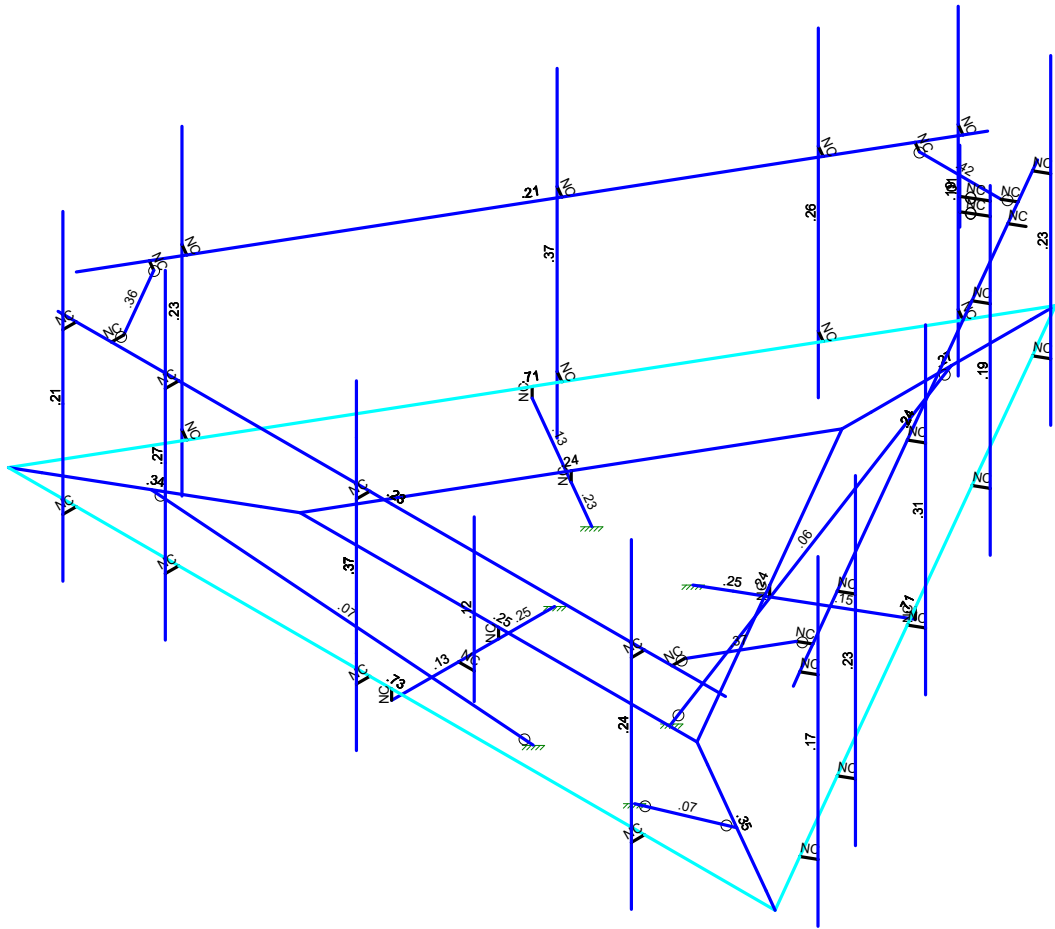
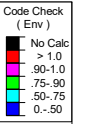




SK - 1

July 5, 2023 at 2:53 PM

5000385363-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

SK - 2

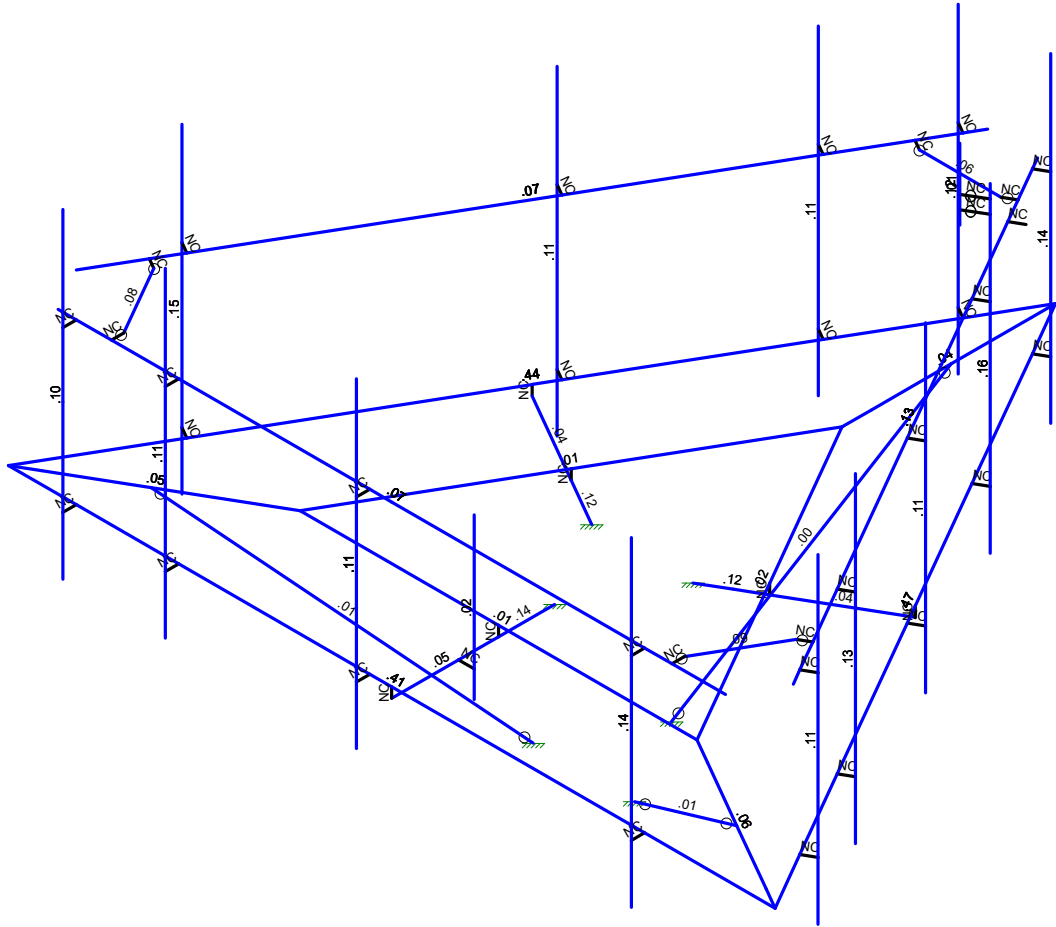
July 5, 2023 at 2:54 PM

5000385363-VZW_MT_LO_H.r3d



Shear Check
(Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

SK - 3

July 5, 2023 at 2:54 PM

5000385363-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					99		
2	Antenna Di	None					99		
3	Antenna Wo (0 Deg)	None					99		
4	Antenna Wo (30 Deg)	None					99		
5	Antenna Wo (60 Deg)	None					99		
6	Antenna Wo (90 Deg)	None					99		
7	Antenna Wo (120 Deg)	None					99		
8	Antenna Wo (150 Deg)	None					99		
9	Antenna Wo (180 Deg)	None					99		
10	Antenna Wo (210 Deg)	None					99		
11	Antenna Wo (240 Deg)	None					99		
12	Antenna Wo (270 Deg)	None					99		
13	Antenna Wo (300 Deg)	None					99		
14	Antenna Wo (330 Deg)	None					99		
15	Antenna Wi (0 Deg)	None					99		
16	Antenna Wi (30 Deg)	None					99		
17	Antenna Wi (60 Deg)	None					99		
18	Antenna Wi (90 Deg)	None					99		
19	Antenna Wi (120 Deg)	None					99		
20	Antenna Wi (150 Deg)	None					99		
21	Antenna Wi (180 Deg)	None					99		
22	Antenna Wi (210 Deg)	None					99		
23	Antenna Wi (240 Deg)	None					99		
24	Antenna Wi (270 Deg)	None					99		
25	Antenna Wi (300 Deg)	None					99		
26	Antenna Wi (330 Deg)	None					99		
27	Antenna Wm (0 Deg)	None					99		
28	Antenna Wm (30 Deg)	None					99		
29	Antenna Wm (60 Deg)	None					99		
30	Antenna Wm (90 Deg)	None					99		
31	Antenna Wm (120 De..	None					99		
32	Antenna Wm (150 De..	None					99		
33	Antenna Wm (180 De..	None					99		
34	Antenna Wm (210 De..	None					99		
35	Antenna Wm (240 De..	None					99		
36	Antenna Wm (270 De..	None					99		
37	Antenna Wm (300 De..	None					99		
38	Antenna Wm (330 De..	None					99		
39	Structure D	None		-1				3	
40	Structure Di	None						39	3
41	Structure Wo (0 Deg)	None						78	
42	Structure Wo (30 Deg)	None						78	
43	Structure Wo (60 Deg)	None						78	
44	Structure Wo (90 Deg)	None						78	
45	Structure Wo (120 D...	None						78	
46	Structure Wo (150 D...	None						78	
47	Structure Wo (180 D...	None						78	
48	Structure Wo (210 D...	None						78	
49	Structure Wo (240 D...	None						78	
50	Structure Wo (270 D...	None						78	
51	Structure Wo (300 D...	None						78	
52	Structure Wo (330 D...	None						78	
53	Structure Wi (0 Deg)	None						78	
54	Structure Wi (30 Deg)	None						78	
55	Structure Wi (60 Deg)	None						78	
56	Structure Wi (90 Deg)	None						78	
57	Structure Wi (120 De..	None						78	
58	Structure Wi (150 De..	None						78	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
59	Structure Wi (180 De...	None						78	
60	Structure Wi (210 De...	None						78	
61	Structure Wi (240 De...	None						78	
62	Structure Wi (270 De...	None						78	
63	Structure Wi (300 De...	None						78	
64	Structure Wi (330 De...	None						78	
65	Structure Wm (0 Deg)	None						78	
66	Structure Wm (30 De...	None						78	
67	Structure Wm (60 De...	None						78	
68	Structure Wm (90 De...	None						78	
69	Structure Wm (120 D...	None						78	
70	Structure Wm (150 D...	None						78	
71	Structure Wm (180 D...	None						78	
72	Structure Wm (210 D...	None						78	
73	Structure Wm (240 D...	None						78	
74	Structure Wm (270 D...	None						78	
75	Structure Wm (300 D...	None						78	
76	Structure Wm (330 D...	None						78	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					99		
82	Antenna Eh (0 Deg)	None					66		
83	Antenna Eh (90 Deg)	None					66		
84	Structure Ev	ELY		-043					3
85	Structure Eh (0 Deg)	ELZ			-107				3
86	Structure Eh (90 Deg)	ELX	.107						3
87	BLC 39 Transient Are...	None						40	
88	BLC 40 Transient Are...	None						40	
89	BLC 84 Transient Are...	None						40	
90	BLC 85 Transient Are...	None						40	
91	BLC 86 Transient Are...	None						40	

Load Combinations

	Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1					
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1					
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1					
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1					
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1					
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1					
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1					
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1					
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1					
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1					
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1					
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1					
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1	
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1	
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1	
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1	
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1	
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1	
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1	
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1	
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1	

Load Combinations (Continued)

	Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.				
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1						
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5										
51	1.4D	Yes	Y		1	1.4	39	1.4												
52	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5
54	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866
55	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866
57	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5
58	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
60	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
61	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866
63	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5
64	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5
66	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866
67	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866
69	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5
70	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
72	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75	0.9D - 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0.	0	-0.	0	
2	N2	0.	-0.1875	1.095417	0	
3	N10	-0.	0	-4.291667	0	
4	N11	-0.	0	-4.833334	0	
5	N12	-0.	0	-6.333334	0	
6	N13	-0.	0	-7.833334	0	
7	N14	-0.	0	-8.291667	0	
8	N15	-3.716692	0	2.145833	0	
9	N16	-7.180794	0	4.145833	0	
10	N17	3.716693	0	2.145833	0	
11	N18	7.180794	0	4.145833	0	
12	N15A	0.	-0.1875	2.145833	0	
13	N16A	0.	-0.1875	4.145833	0	
14	N15B	-4.18579	0	2.416667	0	
15	N16B	-5.484828	0	3.166667	0	
16	N17A	-6.783866	0	3.916667	0	
17	N18A	4.18579	0	2.416667	0	
18	N19	5.484828	0	3.166667	0	
19	N20	6.783866	0	3.916667	0	
20	N73	0.597461	0	-7.256834	0	
21	N77	0.948658	-0.1875	-0.547709	0	
22	N78	1.858346	-0.1875	-1.072917	0	
23	N91	-3.583333	0	-2.085151	0	
24	N109	-0.948659	-0.1875	-0.547708	0	
25	N110	-1.858346	-0.1875	-1.072917	0	
26	N108A	3.590397	-0.1875	-2.072917	0	
27	N110A	-3.590397	-0.1875	-2.072917	0	
28	N119B	1.425334	-0.1875	-0.822917	0	
29	N39	-0.409961	0	4.145833	0	
30	N40	-0.409961	0	4.395833	0	
31	N41	-0.409961	4.916667	4.395833	0	
32	N42	-0.409961	-1.083333	4.395833	0	
33	N43A	-0.409961	1.791667	4.395833	0	
34	N44	-3.993294	0	4.145833	0	
35	N45A	-3.993294	0	4.395833	0	
36	N46	-3.993294	4.916667	4.395833	0	
37	N47	-3.993294	-1.083333	4.395833	0	
38	N48	-3.993294	1.791667	4.395833	0	
39	N49	-5.909961	0	4.145833	0	
40	N50	-5.909961	0	4.395833	0	
41	N51	-5.909961	4.916667	4.395833	0	
42	N52	-5.909961	-1.083333	4.395833	0	
43	N53A	-5.909961	1.791667	4.395833	0	
44	N54A	4.735873	0	4.145833	0	
45	N55	4.735873	0	4.395833	0	
46	N56	4.735873	4.916667	4.395833	0	
47	N57	4.735873	-1.083333	4.395833	0	
48	N58	4.735873	1.791667	4.395833	0	
49	N51A	3.795377	0	-1.71788	0	
50	N52A	4.011884	0	-1.84288	0	
51	N53	4.011884	4.916667	-1.84288	0	
52	N54	4.011884	-1.083333	-1.84288	0	
53	N55A	5.587044	0	1.385377	0	
54	N56A	5.80355	0	1.260377	0	
55	N57A	5.80355	4.916667	1.260377	0	
56	N58A	5.80355	-1.083333	1.260377	0	
57	N59	6.545377	0	3.045259	0	
58	N60	6.761884	0	2.920259	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
59	N61	6.761884	4.916667	2.920259	0	
60	N62	6.761884	-1.083333	2.920259	0	
61	N63	2.139127	0	-4.586589	0	
62	N64	2.355634	0	-4.711589	0	
63	N65	2.355634	4.916667	-4.711589	0	
64	N66	2.355634	-1.083333	-4.711589	0	
65	N68	-3.385417	0	-2.427953	0	
66	N69	-3.601923	0	-2.552953	0	
67	N70	-3.601923	4.916667	-2.552953	0	
68	N71	-3.601923	-1.083333	-2.552953	0	
69	N72	-1.59375	0	-5.531211	0	
70	N73A	-1.810256	0	-5.656211	0	
71	N74	-1.810256	4.916667	-5.656211	0	
72	N75	-1.810256	-1.083333	-5.656211	0	
73	N76	-0.635417	0	-7.191093	0	
74	N77A	-0.851923	0	-7.316093	0	
75	N78A	-0.851923	4.916667	-7.316093	0	
76	N79	-0.851923	-1.083333	-7.316093	0	
77	N80	-5.958333	0	2.028469	0	
78	N81	-6.17484	0	1.903469	0	
79	N82	-6.17484	4.916667	1.903469	0	
80	N83	-6.17484	-1.083333	1.903469	0	
81	N82A	0.	0	2.145833	0	
82	N83A	0.	0	4.145833	0	
83	N85	1.858346	0	-1.072917	0	
84	N86	-1.858346	0	-1.072917	0	
85	N87	3.590397	0	-2.072917	0	
86	N88	-3.590397	0	-2.072917	0	
87	N88A	0.813967	0	-7.381834	0	
88	N89	0.813967	4.916667	-7.381834	0	
89	N90	0.813967	-1.083333	-7.381834	0	
90	ACL	-0.409961	2.25	4.395833	0	
91	N91A	-0.409961	4	4.395833	0	
92	N92	-0.409961	.5	4.395833	0	
93	N93	-0.409961	3.25	4.395833	0	
94	N94	-0.409961	1.25	4.395833	0	
95	N95	2.355634	4.666667	-4.711589	0	
96	N96	2.355634	4.416667	-4.711589	0	
97	N97	1.998481	4.666667	-4.49699	0	
98	N98	1.998481	4.416667	-4.49699	0	
99	N99	1.998481	5.5	-4.49699	0	
100	N100	1.998481	4.166667	-4.49699	0	
101	N101	0.	-0.1875	2.895833	0	
102	N102	0.291667	-0.1875	2.895833	0	
103	N103	0.291667	-0.6875	2.895833	0	
104	N104	0.291667	2.3125	2.895833	0	
105	N105	0.	3	4.145833	0	
106	N106	0.597461	3	-7.256834	0	
107	N107	-0.409961	3	4.145833	0	
108	N108	-0.409961	3	4.395833	0	
109	N109A	-3.993294	3	4.145833	0	
110	N110B	-3.993294	3	4.395833	0	
111	N111	-5.909961	3	4.145833	0	
112	N112	-5.909961	3	4.395833	0	
113	N113	4.735873	3	4.145833	0	
114	N114	4.735873	3	4.395833	0	
115	N115	0.813967	3	-7.381834	0	
116	N116	-6.25	3	4.145833	0	
117	N117	6.25	3	4.145833	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
118	N118	-5.25	3	4.145833	0	
119	N119	5.25	3	4.145833	0	
120	N120	5.25	3	3.916667	0	
121	N122	-5.25	3	3.916667	0	
122	N123	6.215397	3	2.473717	0	
123	N124	0.965397	3	-6.61955	0	
124	N125	0.766933	3	-6.504967	0	
125	N126	6.016933	3	2.5883	0	
126	N128	-0.965397	3	-6.61955	0	
127	N129	-6.215397	3	2.473717	0	
128	N130	-6.016933	3	2.5883	0	
129	N131	-0.766933	3	-6.504967	0	
130	N130A	6.715397	3	3.339742	0	
131	N131A	0.465397	3	-7.485575	0	
132	N132	-0.465397	3	-7.485575	0	
133	N133	-6.715397	3	3.339742	0	
134	N134	3.795377	3	-1.71788	0	
135	N135	4.011884	3	-1.84288	0	
136	N136	5.587044	3	1.385377	0	
137	N137	5.80355	3	1.260377	0	
138	N138	6.545377	3	3.045259	0	
139	N139	6.761884	3	2.920259	0	
140	N140	1.222461	3	-6.174303	0	
141	N141	1.438967	3	-6.299303	0	
142	N142	-3.385417	3	-2.427953	0	
143	N143	-3.601923	3	-2.552953	0	
144	N144	-1.59375	3	-5.531211	0	
145	N145	-1.810256	3	-5.656211	0	
146	N146	-0.635417	3	-7.191093	0	
147	N147	-0.851923	3	-7.316093	0	
148	N148	-5.958333	3	2.028469	0	
149	N149	-6.17484	3	1.903469	0	
150	N150	0.	-3.1875	-1.095417	0	
151	N151	-0.948658	-3.1875	0.547708	0	
152	N152	0.948659	-3.1875	0.547708	0	
153	N153	2.139127	3	-4.586589	0	
154	N154	2.355634	3	-4.711589	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Dual Mount ...	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
4	Light Pipe	PIPE 1.25	Beam	Pipe	A53 Gr.B	Typical	.625	.184	.184	.368
5	Bottom Corn...	L15X6.5X6	Beam	Single Angle	A36 Gr.36	Typical	7.922	24.473	192.705	.363
6	Standoff 2	HSS4.5X4.5...	Beam	Tube	A500 Gr.B R...	Typical	2.93	9.02	9.02	14.4
7	Cross Memb...	L3X3X4	Beam	Channel	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Face Horizo...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	Standoff 1	HSS4X4X4	Beam	Tube	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
10	Grating Angle	LL3x3x4x0	Beam	Double Angl...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
11	Support Rail...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
12	Kicker Kit	LL3x3x3x3	Beam	Single Angle	A36 Gr.36	Typical	2.18	4.09	1.9	.027

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	1.4	65	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N15A			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
2	M2	N15A	N16A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
3	M5	N14	N10		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
4	M6	N16	N15		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
5	M7	N18	N17		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
6	M6A	N17	N15		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
7	M7A	N16	N18		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M23A	N10	N17		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
9	M24	N18	N14		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
10	M38	N77	N78			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
11	M39A	N15	N10		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
12	M40	N14	N16		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
13	M54	N109	N110			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
14	M55	N78	N108A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
15	M56	N110	N110A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
16	M20	N39	N40			RIGID	None	None	RIGID	Typical
17	MP2A	N41	N42		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
18	M22	N44	N45A			RIGID	None	None	RIGID	Typical
19	MP3A	N46	N47		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
20	M24A	N49	N50			RIGID	None	None	RIGID	Typical
21	MP4A	N51	N52		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
22	M26	N54A	N55			RIGID	None	None	RIGID	Typical
23	MP1A	N56	N57		120	Dual Mount Pi...	Beam	Pipe	A53 Gr.B	Typical
24	M24B	N51A	N52A			RIGID	None	None	RIGID	Typical
25	MP3C	N53	N54			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
26	M26A	N55A	N56A			RIGID	None	None	RIGID	Typical
27	MP4C	N57A	N58A			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
28	M28	N59	N60			RIGID	None	None	RIGID	Typical
29	MP5C	N61	N62			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
30	M30	N63	N64			RIGID	None	None	RIGID	Typical
31	MP2C	N65	N66			Dual Mount Pi...	Beam	Pipe	A53 Gr.B	Typical
32	M32	N68	N69			RIGID	None	None	RIGID	Typical
33	MP2B	N70	N71		240	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
34	M34	N72	N73A			RIGID	None	None	RIGID	Typical
35	MP3B	N74	N75		240	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
36	M36	N76	N77A			RIGID	None	None	RIGID	Typical
37	MP4B	N78A	N79		240	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
38	M38A	N80	N81			RIGID	None	None	RIGID	Typical
39	MP1B	N82	N83		240	Dual Mount Pi...	Beam	Pipe	A53 Gr.B	Typical
40	M40A	N83A	N16A			RIGID	None	None	RIGID	Typical
41	M41	N82A	N15A			RIGID	None	None	RIGID	Typical
42	M42	N88	N110A			RIGID	None	None	RIGID	Typical
43	M43	N86	N110			RIGID	None	None	RIGID	Typical
44	M44	N85	N78			RIGID	None	None	RIGID	Typical
45	M45	N87	N108A			RIGID	None	None	RIGID	Typical
46	M46	N73	N88A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
47	MP1C	N89	N90			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
48	M48	N95	N97			RIGID	None	None	RIGID	Typical
49	M49	N96	N98			RIGID	None	None	RIGID	Typical
50	LIGHT	N99	N100			Light Pipe	Beam	Pipe	A53 Gr.B	Typical
51	M51	N101	N102			RIGID	None	None	RIGID	Typical
52	OVP	N104	N103			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
53	M53	N107	N108			RIGID	None	None	RIGID	Typical
54	M54A	N109A	N110B			RIGID	None	None	RIGID	Typical
55	M55A	N111	N112			RIGID	None	None	RIGID	Typical
56	M56A	N113	N114			RIGID	None	None	RIGID	Typical
57	M57	N106	N115			RIGID	None	None	RIGID	Typical
58	M58	N116	N117			Support Rail	Beam	Pipe	A53 Gr.B	Typical
59	M59	N119	N120			RIGID	None	None	RIGID	Typical
60	M60	N118	N122			RIGID	None	None	RIGID	Typical
61	M61	N124	N125			RIGID	None	None	RIGID	Typical
62	M62	N123	N126			RIGID	None	None	RIGID	Typical
63	M63	N129	N130			RIGID	None	None	RIGID	Typical
64	M64	N128	N131			RIGID	None	None	RIGID	Typical
65	M65	N130A	N131A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
66	M66	N132	N133			Support Rail	Beam	Pipe	A53 Gr.B	Typical
67	M67	N122	N130		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
68	M68	N126	N120		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
69	M69	N131	N125		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
70	M70	N134	N135			RIGID	None	None	RIGID	Typical
71	M71	N136	N137			RIGID	None	None	RIGID	Typical
72	M72	N138	N139			RIGID	None	None	RIGID	Typical
73	M73	N140	N141			RIGID	None	None	RIGID	Typical
74	M74	N142	N143			RIGID	None	None	RIGID	Typical
75	M75	N144	N145			RIGID	None	None	RIGID	Typical
76	M76	N146	N147			RIGID	None	None	RIGID	Typical
77	M77	N148	N149			RIGID	None	None	RIGID	Typical
78	M78	N16B	N151			Kicker Kit	Beam	Single Angle	A36 Gr.36	Typical
79	M79	N19	N152			Kicker Kit	Beam	Single Angle	A36 Gr.36	Typical
80	M80	N12	N150		2e-6	Kicker Kit	Beam	Single Angle	A36 Gr.36	Typical
81	M81	N153	N154			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Standoff 1	1.05			Lbyy						Lateral
2	M2	Standoff 2	2			Lbyy						Lateral
3	M5	Grating Angle	4			Lbyy						Lateral
4	M6	Grating Angle	4			Lbyy						Lateral
5	M7	Grating Angle	4			Lbyy						Lateral
6	M6A	Cross Mem...	7.433			Lbyy						Lateral
7	M7A	Face Horizo...	14.362			Lbyy						Lateral
8	M23A	Cross Mem...	7.433			Lbyy						Lateral
9	M24	Face Horizo...	14.362			Lbyy						Lateral
10	M38	Standoff 1	1.05			Lbyy						Lateral
11	M39A	Cross Mem...	7.433			Lbyy						Lateral
12	M40	Face Horizo...	14.362			Lbyy						Lateral
13	M54	Standoff 1	1.05			Lbyy						Lateral
14	M55	Standoff 2	2			Lbyy						Lateral
15	M56	Standoff 2	2			Lbyy						Lateral
16	MP2A	Mount Pipe	6			Lbyy						Lateral
17	MP3A	Mount Pipe	6			Lbyy						Lateral
18	MP4A	Mount Pipe	6			Lbyy						Lateral
19	MP1A	Dual Mount ...	6			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbv[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
20	MP3C	Mount Pipe	6					Lbyy				Lateral
21	MP4C	Mount Pipe	6					Lbyy				Lateral
22	MP5C	Mount Pipe	6					Lbyy				Lateral
23	MP2C	Dual Mount ...	6					Lbyy				Lateral
24	MP2B	Mount Pipe	6					Lbyy				Lateral
25	MP3B	Mount Pipe	6					Lbyy				Lateral
26	MP4B	Mount Pipe	6					Lbyy				Lateral
27	MP1B	Dual Mount ...	6					Lbyy				Lateral
28	MP1C	Mount Pipe	6					Lbyy				Lateral
29	LIGHT	Light Pipe	1.333					Lbyy				Lateral
30	OVP	Mount Pipe	3					Lbyy				Lateral
31	M58	Support Rail	12.5					Lbyy				Lateral
32	M65	Support Rail	12.5					Lbyy				Lateral
33	M66	Support Rail	12.5					Lbyy				Lateral
34	M67	Support Rai...	1.534					Lbyy				Lateral
35	M68	Support Rai...	1.534					Lbyy				Lateral
36	M69	Support Rai...	1.534					Lbyy				Lateral
37	M78	Kicker Kit	6.132					Lbyy				Lateral
38	M79	Kicker Kit	6.132					Lbyy				Lateral
39	M80	Kicker Kit	6.132					Lbyy				Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP1A	Y	-23	.92
2	MP1A	My	-.021	.92
3	MP1A	Mz	.019	.92
4	MP1A	Y	-23	4.42
5	MP1A	My	-.021	4.42
6	MP1A	Mz	.019	4.42
7	MP1B	Y	-23	.92
8	MP1B	My	-.006	.92
9	MP1B	Mz	-.028	.92
10	MP1B	Y	-23	4.42
11	MP1B	My	-.006	4.42
12	MP1B	Mz	-.028	4.42
13	MP1A	Y	-23	.92
14	MP1A	My	-.021	.92
15	MP1A	Mz	-.019	.92
16	MP1A	Y	-23	4.42
17	MP1A	My	-.021	4.42
18	MP1A	Mz	-.019	4.42
19	MP1B	Y	-23	.92
20	MP1B	My	.027	.92
21	MP1B	Mz	-.009	.92
22	MP1B	Y	-23	4.42
23	MP1B	My	.027	4.42
24	MP1B	Mz	-.009	4.42
25	MP2C	Y	-23	.92
26	MP2C	My	.025	.92
27	MP2C	Mz	.013	.92
28	MP2C	Y	-23	4.42
29	MP2C	My	.025	4.42
30	MP2C	Mz	.013	4.42
31	MP2C	Y	-23	.92
32	MP2C	My	-.011	.92
33	MP2C	Mz	.026	.92
34	MP2C	Y	-23	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
35	MP2C	My	-.011	4.42
36	MP2C	Mz	.026	4.42
37	MP2A	Y	-43.55	1.67
38	MP2A	My	-.022	1.67
39	MP2A	Mz	0	1.67
40	MP2A	Y	-43.55	3.67
41	MP2A	My	-.022	3.67
42	MP2A	Mz	0	3.67
43	MP2B	Y	-43.55	1.67
44	MP2B	My	.011	1.67
45	MP2B	Mz	-.019	1.67
46	MP2B	Y	-43.55	3.67
47	MP2B	My	.011	3.67
48	MP2B	Mz	-.019	3.67
49	MP3C	Y	-43.55	1.67
50	MP3C	My	.007	1.67
51	MP3C	Mz	.02	1.67
52	MP3C	Y	-43.55	3.67
53	MP3C	My	.007	3.67
54	MP3C	Mz	.02	3.67
55	MP4A	Y	-6	.91
56	MP4A	My	-.003	.91
57	MP4A	Mz	0	.91
58	MP4A	Y	-6	4.42
59	MP4A	My	-.003	4.42
60	MP4A	Mz	0	4.42
61	MP4B	Y	-4.95	.92
62	MP4B	My	.001	.92
63	MP4B	Mz	-.002	.92
64	MP4B	Y	-4.95	4.42
65	MP4B	My	.001	4.42
66	MP4B	Mz	-.002	4.42
67	MP5C	Y	-4.95	.92
68	MP5C	My	.000846	.92
69	MP5C	Mz	.002	.92
70	MP5C	Y	-4.95	4.42
71	MP5C	My	.000846	4.42
72	MP5C	Mz	.002	4.42
73	OVP	Y	-32	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-84.4	3
77	MP1A	My	.042	3
78	MP1A	Mz	0	3
79	MP1B	Y	-84.4	3
80	MP1B	My	-.021	3
81	MP1B	Mz	.037	3
82	MP2C	Y	-84.4	2.5
83	MP2C	My	-.014	2.5
84	MP2C	Mz	-.04	2.5
85	MP2A	Y	-70.3	3
86	MP2A	My	.035	3
87	MP2A	Mz	0	3
88	MP2B	Y	-70.3	3
89	MP2B	My	-.018	3
90	MP2B	Mz	.03	3
91	MP3C	Y	-70.3	3
92	MP3C	My	-.012	3
93	MP3C	Mz	-.033	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
94	MP2C	Y	-17.6	4.25
95	MP2C	My	-.003	4.25
96	MP2C	Mz	-.008	4.25
97	LIGHT	Y	-3	0
98	LIGHT	My	0	0
99	LIGHT	Mz	0	0

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-81.559	.92
2	MP1A	My	-.075	.92
3	MP1A	Mz	.068	.92
4	MP1A	Y	-81.559	4.42
5	MP1A	My	-.075	4.42
6	MP1A	Mz	.068	4.42
7	MP1B	Y	-81.559	.92
8	MP1B	My	-.021	.92
9	MP1B	Mz	-.099	.92
10	MP1B	Y	-81.559	4.42
11	MP1B	My	-.021	4.42
12	MP1B	Mz	-.099	4.42
13	MP1A	Y	-81.559	.92
14	MP1A	My	-.075	.92
15	MP1A	Mz	-.068	.92
16	MP1A	Y	-81.559	4.42
17	MP1A	My	-.075	4.42
18	MP1A	Mz	-.068	4.42
19	MP1B	Y	-81.559	.92
20	MP1B	My	.096	.92
21	MP1B	Mz	-.031	.92
22	MP1B	Y	-81.559	4.42
23	MP1B	My	.096	4.42
24	MP1B	Mz	-.031	4.42
25	MP2C	Y	-81.559	.92
26	MP2C	My	.089	.92
27	MP2C	Mz	.047	.92
28	MP2C	Y	-81.559	4.42
29	MP2C	My	.089	4.42
30	MP2C	Mz	.047	4.42
31	MP2C	Y	-81.559	.92
32	MP2C	My	-.038	.92
33	MP2C	Mz	.093	.92
34	MP2C	Y	-81.559	4.42
35	MP2C	My	-.038	4.42
36	MP2C	Mz	.093	4.42
37	MP2A	Y	-35.211	1.67
38	MP2A	My	-.018	1.67
39	MP2A	Mz	0	1.67
40	MP2A	Y	-35.211	3.67
41	MP2A	My	-.018	3.67
42	MP2A	Mz	0	3.67
43	MP2B	Y	-35.211	1.67
44	MP2B	My	.009	1.67
45	MP2B	Mz	-.015	1.67
46	MP2B	Y	-35.211	3.67
47	MP2B	My	.009	3.67
48	MP2B	Mz	-.015	3.67
49	MP3C	Y	-35.211	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
50	MP3C	My	.006	1.67
51	MP3C	Mz	.017	1.67
52	MP3C	Y	-35.211	3.67
53	MP3C	My	.006	3.67
54	MP3C	Mz	.017	3.67
55	MP4A	Y	-30.368	.91
56	MP4A	My	-.015	.91
57	MP4A	Mz	0	.91
58	MP4A	Y	-30.368	4.42
59	MP4A	My	-.015	4.42
60	MP4A	Mz	0	4.42
61	MP4B	Y	-34.824	.92
62	MP4B	My	.009	.92
63	MP4B	Mz	-.015	.92
64	MP4B	Y	-34.824	4.42
65	MP4B	My	.009	4.42
66	MP4B	Mz	-.015	4.42
67	MP5C	Y	-34.824	.92
68	MP5C	My	.006	.92
69	MP5C	Mz	.016	.92
70	MP5C	Y	-34.824	4.42
71	MP5C	My	.006	4.42
72	MP5C	Mz	.016	4.42
73	OVP	Y	-86.935	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-44.385	3
77	MP1A	My	.022	3
78	MP1A	Mz	0	3
79	MP1B	Y	-44.385	3
80	MP1B	My	-.011	3
81	MP1B	Mz	.019	3
82	MP2C	Y	-44.385	2.5
83	MP2C	My	-.008	2.5
84	MP2C	Mz	-.021	2.5
85	MP2A	Y	-39.913	3
86	MP2A	My	.02	3
87	MP2A	Mz	0	3
88	MP2B	Y	-39.913	3
89	MP2B	My	-.01	3
90	MP2B	Mz	.017	3
91	MP3C	Y	-39.913	3
92	MP3C	My	-.007	3
93	MP3C	Mz	-.019	3
94	MP2C	Y	-17.131	4.25
95	MP2C	My	-.003	4.25
96	MP2C	Mz	-.008	4.25
97	LIGHT	Y	-3.505	0
98	LIGHT	My	0	0
99	LIGHT	Mz	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	.92
2	MP1A	Z	-97.996	.92
3	MP1A	Mx	-.082	.92
4	MP1A	X	0	4.42
5	MP1A	Z	-97.996	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP1A	Mx	-.082	4.42
7	MP1B	X	0	.92
8	MP1B	Z	-79.505	.92
9	MP1B	Mx	.096	.92
10	MP1B	X	0	4.42
11	MP1B	Z	-79.505	4.42
12	MP1B	Mx	.096	4.42
13	MP1A	X	0	.92
14	MP1A	Z	-97.996	.92
15	MP1A	Mx	.082	.92
16	MP1A	X	0	4.42
17	MP1A	Z	-97.996	4.42
18	MP1A	Mx	.082	4.42
19	MP1B	X	0	.92
20	MP1B	Z	-79.505	.92
21	MP1B	Mx	.03	.92
22	MP1B	X	0	4.42
23	MP1B	Z	-79.505	4.42
24	MP1B	Mx	.03	4.42
25	MP2C	X	0	.92
26	MP2C	Z	-76.226	.92
27	MP2C	Mx	-.044	.92
28	MP2C	X	0	4.42
29	MP2C	Z	-76.226	4.42
30	MP2C	Mx	-.044	4.42
31	MP2C	X	0	.92
32	MP2C	Z	-76.226	.92
33	MP2C	Mx	-.087	.92
34	MP2C	X	0	4.42
35	MP2C	Z	-76.226	4.42
36	MP2C	Mx	-.087	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	-81.215	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	-81.215	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	-41.281	1.67
45	MP2B	Mx	.018	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	-41.281	3.67
48	MP2B	Mx	.018	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	-34.198	1.67
51	MP3C	Mx	-.016	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	-34.198	3.67
54	MP3C	Mx	-.016	3.67
55	MP4A	X	0	.91
56	MP4A	Z	-73.756	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	-73.756	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	-62.365	.92
63	MP4B	Mx	.027	.92
64	MP4B	X	0	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
65	MP4B	Z	-62.365	4.42
66	MP4B	Mx	.027	4.42
67	MP5C	X	0	.92
68	MP5C	Z	-56.082	.92
69	MP5C	Mx	-.026	.92
70	MP5C	X	0	4.42
71	MP5C	Z	-56.082	4.42
72	MP5C	Mx	-.026	4.42
73	OVP	X	0	1
74	OVP	Z	-123.479	1
75	OVP	Mx	0	1
76	MP1A	X	0	3
77	MP1A	Z	-64.226	3
78	MP1A	Mx	0	3
79	MP1B	X	0	3
80	MP1B	Z	-48.377	3
81	MP1B	Mx	-.021	3
82	MP2C	X	0	2.5
83	MP2C	Z	-45.566	2.5
84	MP2C	Mx	.021	2.5
85	MP2A	X	0	3
86	MP2A	Z	-64.226	3
87	MP2A	Mx	0	3
88	MP2B	X	0	3
89	MP2B	Z	-42.472	3
90	MP2B	Mx	-.018	3
91	MP3C	X	0	3
92	MP3C	Z	-38.614	3
93	MP3C	Mx	.018	3
94	MP2C	X	0	4.25
95	MP2C	Z	-15.307	4.25
96	MP2C	Mx	.007	4.25
97	LIGHT	X	0	0
98	LIGHT	Z	-8.978	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	45.916	.92
2	MP1A	Z	-79.529	.92
3	MP1A	Mx	-.108	.92
4	MP1A	X	45.916	4.42
5	MP1A	Z	-79.529	4.42
6	MP1A	Mx	-.108	4.42
7	MP1B	X	36.671	.92
8	MP1B	Z	-63.516	.92
9	MP1B	Mx	.067	.92
10	MP1B	X	36.671	4.42
11	MP1B	Z	-63.516	4.42
12	MP1B	Mx	.067	4.42
13	MP1A	X	45.916	.92
14	MP1A	Z	-79.529	.92
15	MP1A	Mx	.024	.92
16	MP1A	X	45.916	4.42
17	MP1A	Z	-79.529	4.42
18	MP1A	Mx	.024	4.42
19	MP1B	X	36.671	.92
20	MP1B	Z	-63.516	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
21	MP1B	Mx	.067	.92
22	MP1B	X	36.671	4.42
23	MP1B	Z	-63.516	4.42
24	MP1B	Mx	.067	4.42
25	MP2C	X	43.905	.92
26	MP2C	Z	-76.045	.92
27	MP2C	Mx	.004	.92
28	MP2C	X	43.905	4.42
29	MP2C	Z	-76.045	4.42
30	MP2C	Mx	.004	4.42
31	MP2C	X	43.905	.92
32	MP2C	Z	-76.045	.92
33	MP2C	Mx	-.108	.92
34	MP2C	X	43.905	4.42
35	MP2C	Z	-76.045	4.42
36	MP2C	Mx	-.108	4.42
37	MP2A	X	33.952	1.67
38	MP2A	Z	-58.806	1.67
39	MP2A	Mx	-.017	1.67
40	MP2A	X	33.952	3.67
41	MP2A	Z	-58.806	3.67
42	MP2A	Mx	-.017	3.67
43	MP2B	X	13.985	1.67
44	MP2B	Z	-24.222	1.67
45	MP2B	Mx	.014	1.67
46	MP2B	X	13.985	3.67
47	MP2B	Z	-24.222	3.67
48	MP2B	Mx	.014	3.67
49	MP3C	X	29.607	1.67
50	MP3C	Z	-51.282	1.67
51	MP3C	Mx	-.019	1.67
52	MP3C	X	29.607	3.67
53	MP3C	Z	-51.282	3.67
54	MP3C	Mx	-.019	3.67
55	MP4A	X	34.891	.91
56	MP4A	Z	-60.433	.91
57	MP4A	Mx	-.017	.91
58	MP4A	X	34.891	4.42
59	MP4A	Z	-60.433	4.42
60	MP4A	Mx	-.017	4.42
61	MP4B	X	25.278	.92
62	MP4B	Z	-43.783	.92
63	MP4B	Mx	.025	.92
64	MP4B	X	25.278	4.42
65	MP4B	Z	-43.783	4.42
66	MP4B	Mx	.025	4.42
67	MP5C	X	39.137	.92
68	MP5C	Z	-67.787	.92
69	MP5C	Mx	-.025	.92
70	MP5C	X	39.137	4.42
71	MP5C	Z	-67.787	4.42
72	MP5C	Mx	-.025	4.42
73	OVP	X	53.867	1
74	OVP	Z	-93.3	1
75	OVP	Mx	0	1
76	MP1A	X	29.471	3
77	MP1A	Z	-51.046	3
78	MP1A	Mx	.015	3
79	MP1B	X	21.547	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
80	MP1B	Z	-37.32	3
81	MP1B	Mx	-.022	3
82	MP2C	X	27.747	2.5
83	MP2C	Z	-48.06	2.5
84	MP2C	Mx	.018	2.5
85	MP2A	X	28.487	3
86	MP2A	Z	-49.341	3
87	MP2A	Mx	.014	3
88	MP2B	X	17.61	3
89	MP2B	Z	-30.502	3
90	MP2B	Mx	-.018	3
91	MP3C	X	26.121	3
92	MP3C	Z	-45.243	3
93	MP3C	Mx	.017	3
94	MP2C	X	14.164	4.25
95	MP2C	Z	-24.533	4.25
96	MP2C	Mx	.009	4.25
97	LIGHT	X	5.18	0
98	LIGHT	Z	-8.971	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	68.854	.92
2	MP1A	Z	-39.753	.92
3	MP1A	Mx	-.096	.92
4	MP1A	X	68.854	4.42
5	MP1A	Z	-39.753	4.42
6	MP1A	Mx	-.096	4.42
7	MP1B	X	68.854	.92
8	MP1B	Z	-39.753	.92
9	MP1B	Mx	.03	.92
10	MP1B	X	68.854	4.42
11	MP1B	Z	-39.753	4.42
12	MP1B	Mx	.03	4.42
13	MP1A	X	68.854	.92
14	MP1A	Z	-39.753	.92
15	MP1A	Mx	-.03	.92
16	MP1A	X	68.854	4.42
17	MP1A	Z	-39.753	4.42
18	MP1A	Mx	-.03	4.42
19	MP1B	X	68.854	.92
20	MP1B	Z	-39.753	.92
21	MP1B	Mx	.096	.92
22	MP1B	X	68.854	4.42
23	MP1B	Z	-39.753	4.42
24	MP1B	Mx	.096	4.42
25	MP2C	X	84.223	.92
26	MP2C	Z	-48.626	.92
27	MP2C	Mx	.064	.92
28	MP2C	X	84.223	4.42
29	MP2C	Z	-48.626	4.42
30	MP2C	Mx	.064	4.42
31	MP2C	X	84.223	.92
32	MP2C	Z	-48.626	.92
33	MP2C	Mx	-.095	.92
34	MP2C	X	84.223	4.42
35	MP2C	Z	-48.626	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP2C	Mx	-.095	4.42
37	MP2A	X	35.75	1.67
38	MP2A	Z	-20.64	1.67
39	MP2A	Mx	-.018	1.67
40	MP2A	X	35.75	3.67
41	MP2A	Z	-20.64	3.67
42	MP2A	Mx	-.018	3.67
43	MP2B	X	35.75	1.67
44	MP2B	Z	-20.64	1.67
45	MP2B	Mx	.018	1.67
46	MP2B	X	35.75	3.67
47	MP2B	Z	-20.64	3.67
48	MP2B	Mx	.018	3.67
49	MP3C	X	68.944	1.67
50	MP3C	Z	-39.805	1.67
51	MP3C	Mx	-.007	1.67
52	MP3C	X	68.944	3.67
53	MP3C	Z	-39.805	3.67
54	MP3C	Mx	-.007	3.67
55	MP4A	X	53.551	.91
56	MP4A	Z	-30.918	.91
57	MP4A	Mx	-.027	.91
58	MP4A	X	53.551	4.42
59	MP4A	Z	-30.918	4.42
60	MP4A	Mx	-.027	4.42
61	MP4B	X	54.009	.92
62	MP4B	Z	-31.182	.92
63	MP4B	Mx	.027	.92
64	MP4B	X	54.009	4.42
65	MP4B	Z	-31.182	4.42
66	MP4B	Mx	.027	4.42
67	MP5C	X	83.454	.92
68	MP5C	Z	-48.182	.92
69	MP5C	Mx	-.008	.92
70	MP5C	X	83.454	4.42
71	MP5C	Z	-48.182	4.42
72	MP5C	Mx	-.008	4.42
73	OVP	X	86.482	1
74	OVP	Z	-49.93	1
75	OVP	Mx	0	1
76	MP1A	X	41.895	3
77	MP1A	Z	-24.188	3
78	MP1A	Mx	.021	3
79	MP1B	X	41.895	3
80	MP1B	Z	-24.188	3
81	MP1B	Mx	-.021	3
82	MP2C	X	55.069	2.5
83	MP2C	Z	-31.794	2.5
84	MP2C	Mx	.006	2.5
85	MP2A	X	36.782	3
86	MP2A	Z	-21.236	3
87	MP2A	Mx	.018	3
88	MP2B	X	36.782	3
89	MP2B	Z	-21.236	3
90	MP2B	Mx	-.018	3
91	MP3C	X	54.864	3
92	MP3C	Z	-31.676	3
93	MP3C	Mx	.006	3
94	MP2C	X	33.726	4.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
95	MP2C	Z	-19.471	4.25
96	MP2C	Mx	.003	4.25
97	LIGHT	X	9.569	0
98	LIGHT	Z	-5.525	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	73.342	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	-.067	.92
4	MP1A	X	73.342	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	-.067	4.42
7	MP1B	X	91.833	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	-.024	.92
10	MP1B	X	91.833	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	-.024	4.42
13	MP1A	X	73.342	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	-.067	.92
16	MP1A	X	73.342	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	-.067	4.42
19	MP1B	X	91.833	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	.108	.92
22	MP1B	X	91.833	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	.108	4.42
25	MP2C	X	95.112	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	.104	.92
28	MP2C	X	95.112	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	.104	4.42
31	MP2C	X	95.112	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	-.045	.92
34	MP2C	X	95.112	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	-.045	4.42
37	MP2A	X	27.969	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	-.014	1.67
40	MP2A	X	27.969	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	-.014	3.67
43	MP2B	X	67.903	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	.017	1.67
46	MP2B	X	67.903	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	.017	3.67
49	MP3C	X	74.986	1.67
50	MP3C	Z	0	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
51	MP3C	Mx	.013	1.67
52	MP3C	X	74.986	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	.013	3.67
55	MP4A	X	57.862	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	-.029	.91
58	MP4A	X	57.862	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	-.029	4.42
61	MP4B	X	85.981	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	.021	.92
64	MP4B	X	85.981	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	.021	4.42
67	MP5C	X	92.264	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	.016	.92
70	MP5C	X	92.264	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	.016	4.42
73	OVP	X	107.734	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	43.093	3
77	MP1A	Z	0	3
78	MP1A	Mx	.022	3
79	MP1B	X	58.943	3
80	MP1B	Z	0	3
81	MP1B	Mx	-.015	3
82	MP2C	X	61.754	2.5
83	MP2C	Z	0	2.5
84	MP2C	Mx	-.011	2.5
85	MP2A	X	35.221	3
86	MP2A	Z	0	3
87	MP2A	Mx	.018	3
88	MP2B	X	56.975	3
89	MP2B	Z	0	3
90	MP2B	Mx	-.014	3
91	MP3C	X	60.833	3
92	MP3C	Z	0	3
93	MP3C	Mx	-.01	3
94	MP2C	X	36.537	4.25
95	MP2C	Z	0	4.25
96	MP2C	Mx	-.006	4.25
97	LIGHT	X	10.359	0
98	LIGHT	Z	0	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	68.854	.92
2	MP1A	Z	39.753	.92
3	MP1A	Mx	-.03	.92
4	MP1A	X	68.854	4.42
5	MP1A	Z	39.753	4.42
6	MP1A	Mx	-.03	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
7	MP1B	X	84.867	.92
8	MP1B	Z	48.998	.92
9	MP1B	Mx	-.082	.92
10	MP1B	X	84.867	4.42
11	MP1B	Z	48.998	4.42
12	MP1B	Mx	-.082	4.42
13	MP1A	X	68.854	.92
14	MP1A	Z	39.753	.92
15	MP1A	Mx	-.096	.92
16	MP1A	X	68.854	4.42
17	MP1A	Z	39.753	4.42
18	MP1A	Mx	-.096	4.42
19	MP1B	X	84.867	.92
20	MP1B	Z	48.998	.92
21	MP1B	Mx	.082	.92
22	MP1B	X	84.867	4.42
23	MP1B	Z	48.998	4.42
24	MP1B	Mx	.082	4.42
25	MP2C	X	72.338	.92
26	MP2C	Z	41.764	.92
27	MP2C	Mx	.103	.92
28	MP2C	X	72.338	4.42
29	MP2C	Z	41.764	4.42
30	MP2C	Mx	.103	4.42
31	MP2C	X	72.338	.92
32	MP2C	Z	41.764	.92
33	MP2C	Mx	.014	.92
34	MP2C	X	72.338	4.42
35	MP2C	Z	41.764	4.42
36	MP2C	Mx	.014	4.42
37	MP2A	X	35.75	1.67
38	MP2A	Z	20.64	1.67
39	MP2A	Mx	-.018	1.67
40	MP2A	X	35.75	3.67
41	MP2A	Z	20.64	3.67
42	MP2A	Mx	-.018	3.67
43	MP2B	X	70.334	1.67
44	MP2B	Z	40.607	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	70.334	3.67
47	MP2B	Z	40.607	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	43.274	1.67
50	MP3C	Z	24.985	1.67
51	MP3C	Mx	.019	1.67
52	MP3C	X	43.274	3.67
53	MP3C	Z	24.985	3.67
54	MP3C	Mx	.019	3.67
55	MP4A	X	53.551	.91
56	MP4A	Z	30.918	.91
57	MP4A	Mx	-.027	.91
58	MP4A	X	53.551	4.42
59	MP4A	Z	30.918	4.42
60	MP4A	Mx	-.027	4.42
61	MP4B	X	84.688	.92
62	MP4B	Z	48.895	.92
63	MP4B	Mx	0	.92
64	MP4B	X	84.688	4.42
65	MP4B	Z	48.895	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
66	MP4B	Mx	0	4.42
67	MP5C	X	60.684	.92
68	MP5C	Z	35.036	.92
69	MP5C	Mx	.027	.92
70	MP5C	X	60.684	4.42
71	MP5C	Z	35.036	4.42
72	MP5C	Mx	.027	4.42
73	OVP	X	106.936	1
74	OVP	Z	61.74	1
75	OVP	Mx	0	1
76	MP1A	X	41.895	3
77	MP1A	Z	24.188	3
78	MP1A	Mx	.021	3
79	MP1B	X	55.621	3
80	MP1B	Z	32.113	3
81	MP1B	Mx	0	3
82	MP2C	X	44.882	2.5
83	MP2C	Z	25.912	2.5
84	MP2C	Mx	-.02	2.5
85	MP2A	X	36.782	3
86	MP2A	Z	21.236	3
87	MP2A	Mx	.018	3
88	MP2B	X	55.621	3
89	MP2B	Z	32.113	3
90	MP2B	Mx	0	3
91	MP3C	X	40.881	3
92	MP3C	Z	23.602	3
93	MP3C	Mx	-.018	3
94	MP2C	X	20.365	4.25
95	MP2C	Z	11.758	4.25
96	MP2C	Mx	-.009	4.25
97	LIGHT	X	7.775	0
98	LIGHT	Z	4.489	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	45.916	.92
2	MP1A	Z	79.529	.92
3	MP1A	Mx	.024	.92
4	MP1A	X	45.916	4.42
5	MP1A	Z	79.529	4.42
6	MP1A	Mx	.024	4.42
7	MP1B	X	45.916	.92
8	MP1B	Z	79.529	.92
9	MP1B	Mx	-.108	.92
10	MP1B	X	45.916	4.42
11	MP1B	Z	79.529	4.42
12	MP1B	Mx	-.108	4.42
13	MP1A	X	45.916	.92
14	MP1A	Z	79.529	.92
15	MP1A	Mx	-.108	.92
16	MP1A	X	45.916	4.42
17	MP1A	Z	79.529	4.42
18	MP1A	Mx	-.108	4.42
19	MP1B	X	45.916	.92
20	MP1B	Z	79.529	.92
21	MP1B	Mx	.024	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP1B	X	45.916	4.42
23	MP1B	Z	79.529	4.42
24	MP1B	Mx	.024	4.42
25	MP2C	X	37.043	.92
26	MP2C	Z	64.16	.92
27	MP2C	Mx	.078	.92
28	MP2C	X	37.043	4.42
29	MP2C	Z	64.16	4.42
30	MP2C	Mx	.078	4.42
31	MP2C	X	37.043	.92
32	MP2C	Z	64.16	.92
33	MP2C	Mx	.056	.92
34	MP2C	X	37.043	4.42
35	MP2C	Z	64.16	4.42
36	MP2C	Mx	.056	4.42
37	MP2A	X	33.952	1.67
38	MP2A	Z	58.806	1.67
39	MP2A	Mx	-.017	1.67
40	MP2A	X	33.952	3.67
41	MP2A	Z	58.806	3.67
42	MP2A	Mx	-.017	3.67
43	MP2B	X	33.952	1.67
44	MP2B	Z	58.806	1.67
45	MP2B	Mx	-.017	1.67
46	MP2B	X	33.952	3.67
47	MP2B	Z	58.806	3.67
48	MP2B	Mx	-.017	3.67
49	MP3C	X	14.787	1.67
50	MP3C	Z	25.613	1.67
51	MP3C	Mx	.015	1.67
52	MP3C	X	14.787	3.67
53	MP3C	Z	25.613	3.67
54	MP3C	Mx	.015	3.67
55	MP4A	X	34.891	.91
56	MP4A	Z	60.433	.91
57	MP4A	Mx	-.017	.91
58	MP4A	X	34.891	4.42
59	MP4A	Z	60.433	4.42
60	MP4A	Mx	-.017	4.42
61	MP4B	X	42.99	.92
62	MP4B	Z	74.462	.92
63	MP4B	Mx	-.021	.92
64	MP4B	X	42.99	4.42
65	MP4B	Z	74.462	4.42
66	MP4B	Mx	-.021	4.42
67	MP5C	X	25.99	.92
68	MP5C	Z	45.017	.92
69	MP5C	Mx	.026	.92
70	MP5C	X	25.99	4.42
71	MP5C	Z	45.017	4.42
72	MP5C	Mx	.026	4.42
73	OVP	X	65.676	1
74	OVP	Z	113.754	1
75	OVP	Mx	0	1
76	MP1A	X	29.471	3
77	MP1A	Z	51.046	3
78	MP1A	Mx	.015	3
79	MP1B	X	29.471	3
80	MP1B	Z	51.046	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
81	MP1B	Mx	.015	3
82	MP2C	X	21.865	2.5
83	MP2C	Z	37.872	2.5
84	MP2C	Mx	-.022	2.5
85	MP2A	X	28.487	3
86	MP2A	Z	49.341	3
87	MP2A	Mx	.014	3
88	MP2B	X	28.487	3
89	MP2B	Z	49.341	3
90	MP2B	Mx	.014	3
91	MP3C	X	18.048	3
92	MP3C	Z	31.259	3
93	MP3C	Mx	-.018	3
94	MP2C	X	6.45	4.25
95	MP2C	Z	11.172	4.25
96	MP2C	Mx	-.006	4.25
97	LIGHT	X	4.144	0
98	LIGHT	Z	7.177	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	.92
2	MP1A	Z	97.996	.92
3	MP1A	Mx	.082	.92
4	MP1A	X	0	4.42
5	MP1A	Z	97.996	4.42
6	MP1A	Mx	.082	4.42
7	MP1B	X	0	.92
8	MP1B	Z	79.505	.92
9	MP1B	Mx	-.096	.92
10	MP1B	X	0	4.42
11	MP1B	Z	79.505	4.42
12	MP1B	Mx	-.096	4.42
13	MP1A	X	0	.92
14	MP1A	Z	97.996	.92
15	MP1A	Mx	-.082	.92
16	MP1A	X	0	4.42
17	MP1A	Z	97.996	4.42
18	MP1A	Mx	-.082	4.42
19	MP1B	X	0	.92
20	MP1B	Z	79.505	.92
21	MP1B	Mx	-.03	.92
22	MP1B	X	0	4.42
23	MP1B	Z	79.505	4.42
24	MP1B	Mx	-.03	4.42
25	MP2C	X	0	.92
26	MP2C	Z	76.226	.92
27	MP2C	Mx	.044	.92
28	MP2C	X	0	4.42
29	MP2C	Z	76.226	4.42
30	MP2C	Mx	.044	4.42
31	MP2C	X	0	.92
32	MP2C	Z	76.226	.92
33	MP2C	Mx	.087	.92
34	MP2C	X	0	4.42
35	MP2C	Z	76.226	4.42
36	MP2C	Mx	.087	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
37	MP2A	X	0	1.67
38	MP2A	Z	81.215	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	81.215	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	41.281	1.67
45	MP2B	Mx	-.018	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	41.281	3.67
48	MP2B	Mx	-.018	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	34.198	1.67
51	MP3C	Mx	.016	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	34.198	3.67
54	MP3C	Mx	.016	3.67
55	MP4A	X	0	.91
56	MP4A	Z	73.756	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	73.756	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	62.365	.92
63	MP4B	Mx	-.027	.92
64	MP4B	X	0	4.42
65	MP4B	Z	62.365	4.42
66	MP4B	Mx	-.027	4.42
67	MP5C	X	0	.92
68	MP5C	Z	56.082	.92
69	MP5C	Mx	.026	.92
70	MP5C	X	0	4.42
71	MP5C	Z	56.082	4.42
72	MP5C	Mx	.026	4.42
73	OVP	X	0	1
74	OVP	Z	123.479	1
75	OVP	Mx	0	1
76	MP1A	X	0	3
77	MP1A	Z	64.226	3
78	MP1A	Mx	0	3
79	MP1B	X	0	3
80	MP1B	Z	48.377	3
81	MP1B	Mx	.021	3
82	MP2C	X	0	2.5
83	MP2C	Z	45.566	2.5
84	MP2C	Mx	-.021	2.5
85	MP2A	X	0	3
86	MP2A	Z	64.226	3
87	MP2A	Mx	0	3
88	MP2B	X	0	3
89	MP2B	Z	42.472	3
90	MP2B	Mx	.018	3
91	MP3C	X	0	3
92	MP3C	Z	38.614	3
93	MP3C	Mx	-.018	3
94	MP2C	X	0	4.25
95	MP2C	Z	15.307	4.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
96	MP2C	Mx	-0.007	4.25
97	LIGHT	X	0	0
98	LIGHT	Z	8.978	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-45.916	.92
2	MP1A	Z	79.529	.92
3	MP1A	Mx	.108	.92
4	MP1A	X	-45.916	4.42
5	MP1A	Z	79.529	4.42
6	MP1A	Mx	.108	4.42
7	MP1B	X	-36.671	.92
8	MP1B	Z	63.516	.92
9	MP1B	Mx	-.067	.92
10	MP1B	X	-36.671	4.42
11	MP1B	Z	63.516	4.42
12	MP1B	Mx	-.067	4.42
13	MP1A	X	-45.916	.92
14	MP1A	Z	79.529	.92
15	MP1A	Mx	-.024	.92
16	MP1A	X	-45.916	4.42
17	MP1A	Z	79.529	4.42
18	MP1A	Mx	-.024	4.42
19	MP1B	X	-36.671	.92
20	MP1B	Z	63.516	.92
21	MP1B	Mx	-.067	.92
22	MP1B	X	-36.671	4.42
23	MP1B	Z	63.516	4.42
24	MP1B	Mx	-.067	4.42
25	MP2C	X	-43.905	.92
26	MP2C	Z	76.045	.92
27	MP2C	Mx	-.004	.92
28	MP2C	X	-43.905	4.42
29	MP2C	Z	76.045	4.42
30	MP2C	Mx	-.004	4.42
31	MP2C	X	-43.905	.92
32	MP2C	Z	76.045	.92
33	MP2C	Mx	.108	.92
34	MP2C	X	-43.905	4.42
35	MP2C	Z	76.045	4.42
36	MP2C	Mx	.108	4.42
37	MP2A	X	-33.952	1.67
38	MP2A	Z	58.806	1.67
39	MP2A	Mx	.017	1.67
40	MP2A	X	-33.952	3.67
41	MP2A	Z	58.806	3.67
42	MP2A	Mx	.017	3.67
43	MP2B	X	-13.985	1.67
44	MP2B	Z	24.222	1.67
45	MP2B	Mx	-.014	1.67
46	MP2B	X	-13.985	3.67
47	MP2B	Z	24.222	3.67
48	MP2B	Mx	-.014	3.67
49	MP3C	X	-29.607	1.67
50	MP3C	Z	51.282	1.67
51	MP3C	Mx	.019	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
52	MP3C	X	-29.607	3.67
53	MP3C	Z	51.282	3.67
54	MP3C	Mx	.019	3.67
55	MP4A	X	-34.891	.91
56	MP4A	Z	60.433	.91
57	MP4A	Mx	.017	.91
58	MP4A	X	-34.891	4.42
59	MP4A	Z	60.433	4.42
60	MP4A	Mx	.017	4.42
61	MP4B	X	-25.278	.92
62	MP4B	Z	43.783	.92
63	MP4B	Mx	-.025	.92
64	MP4B	X	-25.278	4.42
65	MP4B	Z	43.783	4.42
66	MP4B	Mx	-.025	4.42
67	MP5C	X	-39.137	.92
68	MP5C	Z	67.787	.92
69	MP5C	Mx	.025	.92
70	MP5C	X	-39.137	4.42
71	MP5C	Z	67.787	4.42
72	MP5C	Mx	.025	4.42
73	OVP	X	-53.867	1
74	OVP	Z	93.3	1
75	OVP	Mx	0	1
76	MP1A	X	-29.471	3
77	MP1A	Z	51.046	3
78	MP1A	Mx	-.015	3
79	MP1B	X	-21.547	3
80	MP1B	Z	37.32	3
81	MP1B	Mx	.022	3
82	MP2C	X	-27.747	2.5
83	MP2C	Z	48.06	2.5
84	MP2C	Mx	-.018	2.5
85	MP2A	X	-28.487	3
86	MP2A	Z	49.341	3
87	MP2A	Mx	-.014	3
88	MP2B	X	-17.61	3
89	MP2B	Z	30.502	3
90	MP2B	Mx	.018	3
91	MP3C	X	-26.121	3
92	MP3C	Z	45.243	3
93	MP3C	Mx	-.017	3
94	MP2C	X	-14.164	4.25
95	MP2C	Z	24.533	4.25
96	MP2C	Mx	-.009	4.25
97	LIGHT	X	-5.18	0
98	LIGHT	Z	8.971	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-68.854	.92
2	MP1A	Z	39.753	.92
3	MP1A	Mx	.096	.92
4	MP1A	X	-68.854	4.42
5	MP1A	Z	39.753	4.42
6	MP1A	Mx	.096	4.42
7	MP1B	X	-68.854	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP1B	Z	39.753	.92
9	MP1B	Mx	-.03	.92
10	MP1B	X	-68.854	4.42
11	MP1B	Z	39.753	4.42
12	MP1B	Mx	-.03	4.42
13	MP1A	X	-68.854	.92
14	MP1A	Z	39.753	.92
15	MP1A	Mx	.03	.92
16	MP1A	X	-68.854	4.42
17	MP1A	Z	39.753	4.42
18	MP1A	Mx	.03	4.42
19	MP1B	X	-68.854	.92
20	MP1B	Z	39.753	.92
21	MP1B	Mx	-.096	.92
22	MP1B	X	-68.854	4.42
23	MP1B	Z	39.753	4.42
24	MP1B	Mx	-.096	4.42
25	MP2C	X	-84.223	.92
26	MP2C	Z	48.626	.92
27	MP2C	Mx	-.064	.92
28	MP2C	X	-84.223	4.42
29	MP2C	Z	48.626	4.42
30	MP2C	Mx	-.064	4.42
31	MP2C	X	-84.223	.92
32	MP2C	Z	48.626	.92
33	MP2C	Mx	.095	.92
34	MP2C	X	-84.223	4.42
35	MP2C	Z	48.626	4.42
36	MP2C	Mx	.095	4.42
37	MP2A	X	-35.75	1.67
38	MP2A	Z	20.64	1.67
39	MP2A	Mx	.018	1.67
40	MP2A	X	-35.75	3.67
41	MP2A	Z	20.64	3.67
42	MP2A	Mx	.018	3.67
43	MP2B	X	-35.75	1.67
44	MP2B	Z	20.64	1.67
45	MP2B	Mx	-.018	1.67
46	MP2B	X	-35.75	3.67
47	MP2B	Z	20.64	3.67
48	MP2B	Mx	-.018	3.67
49	MP3C	X	-68.944	1.67
50	MP3C	Z	39.805	1.67
51	MP3C	Mx	.007	1.67
52	MP3C	X	-68.944	3.67
53	MP3C	Z	39.805	3.67
54	MP3C	Mx	.007	3.67
55	MP4A	X	-53.551	.91
56	MP4A	Z	30.918	.91
57	MP4A	Mx	.027	.91
58	MP4A	X	-53.551	4.42
59	MP4A	Z	30.918	4.42
60	MP4A	Mx	.027	4.42
61	MP4B	X	-54.009	.92
62	MP4B	Z	31.182	.92
63	MP4B	Mx	-.027	.92
64	MP4B	X	-54.009	4.42
65	MP4B	Z	31.182	4.42
66	MP4B	Mx	-.027	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
67	MP5C	X	-83.454	.92
68	MP5C	Z	48.182	.92
69	MP5C	Mx	.008	.92
70	MP5C	X	-83.454	4.42
71	MP5C	Z	48.182	4.42
72	MP5C	Mx	.008	4.42
73	OVP	X	-86.482	1
74	OVP	Z	49.93	1
75	OVP	Mx	0	1
76	MP1A	X	-41.895	3
77	MP1A	Z	24.188	3
78	MP1A	Mx	-.021	3
79	MP1B	X	-41.895	3
80	MP1B	Z	24.188	3
81	MP1B	Mx	.021	3
82	MP2C	X	-55.069	2.5
83	MP2C	Z	31.794	2.5
84	MP2C	Mx	-.006	2.5
85	MP2A	X	-36.782	3
86	MP2A	Z	21.236	3
87	MP2A	Mx	-.018	3
88	MP2B	X	-36.782	3
89	MP2B	Z	21.236	3
90	MP2B	Mx	.018	3
91	MP3C	X	-54.864	3
92	MP3C	Z	31.676	3
93	MP3C	Mx	-.006	3
94	MP2C	X	-33.726	4.25
95	MP2C	Z	19.471	4.25
96	MP2C	Mx	-.003	4.25
97	LIGHT	X	-9.569	0
98	LIGHT	Z	5.525	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-73.342	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	.067	.92
4	MP1A	X	-73.342	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	.067	4.42
7	MP1B	X	-91.833	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	.024	.92
10	MP1B	X	-91.833	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	.024	4.42
13	MP1A	X	-73.342	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	.067	.92
16	MP1A	X	-73.342	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	.067	4.42
19	MP1B	X	-91.833	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	-.108	.92
22	MP1B	X	-91.833	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
23	MP1B	Z	0	4.42
24	MP1B	Mx	-.108	4.42
25	MP2C	X	-95.112	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	-.104	.92
28	MP2C	X	-95.112	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	-.104	4.42
31	MP2C	X	-95.112	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.045	.92
34	MP2C	X	-95.112	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	.045	4.42
37	MP2A	X	-27.969	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	.014	1.67
40	MP2A	X	-27.969	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	.014	3.67
43	MP2B	X	-67.903	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	-.017	1.67
46	MP2B	X	-67.903	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	-.017	3.67
49	MP3C	X	-74.986	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	-.013	1.67
52	MP3C	X	-74.986	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	-.013	3.67
55	MP4A	X	-57.862	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	.029	.91
58	MP4A	X	-57.862	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	.029	4.42
61	MP4B	X	-85.981	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	-.021	.92
64	MP4B	X	-85.981	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	-.021	4.42
67	MP5C	X	-92.264	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	-.016	.92
70	MP5C	X	-92.264	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	-.016	4.42
73	OVP	X	-107.734	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-43.093	3
77	MP1A	Z	0	3
78	MP1A	Mx	-.022	3
79	MP1B	X	-58.943	3
80	MP1B	Z	0	3
81	MP1B	Mx	.015	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP2C	X	-61.754	2.5
83	MP2C	Z	0	2.5
84	MP2C	Mx	.011	2.5
85	MP2A	X	-35.221	3
86	MP2A	Z	0	3
87	MP2A	Mx	-.018	3
88	MP2B	X	-56.975	3
89	MP2B	Z	0	3
90	MP2B	Mx	.014	3
91	MP3C	X	-60.833	3
92	MP3C	Z	0	3
93	MP3C	Mx	.01	3
94	MP2C	X	-36.537	4.25
95	MP2C	Z	0	4.25
96	MP2C	Mx	.006	4.25
97	LIGHT	X	-10.359	0
98	LIGHT	Z	0	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-68.854	.92
2	MP1A	Z	-39.753	.92
3	MP1A	Mx	.03	.92
4	MP1A	X	-68.854	4.42
5	MP1A	Z	-39.753	4.42
6	MP1A	Mx	.03	4.42
7	MP1B	X	-84.867	.92
8	MP1B	Z	-48.998	.92
9	MP1B	Mx	.082	.92
10	MP1B	X	-84.867	4.42
11	MP1B	Z	-48.998	4.42
12	MP1B	Mx	.082	4.42
13	MP1A	X	-68.854	.92
14	MP1A	Z	-39.753	.92
15	MP1A	Mx	.096	.92
16	MP1A	X	-68.854	4.42
17	MP1A	Z	-39.753	4.42
18	MP1A	Mx	.096	4.42
19	MP1B	X	-84.867	.92
20	MP1B	Z	-48.998	.92
21	MP1B	Mx	-.082	.92
22	MP1B	X	-84.867	4.42
23	MP1B	Z	-48.998	4.42
24	MP1B	Mx	-.082	4.42
25	MP2C	X	-72.338	.92
26	MP2C	Z	-41.764	.92
27	MP2C	Mx	-.103	.92
28	MP2C	X	-72.338	4.42
29	MP2C	Z	-41.764	4.42
30	MP2C	Mx	-.103	4.42
31	MP2C	X	-72.338	.92
32	MP2C	Z	-41.764	.92
33	MP2C	Mx	-.014	.92
34	MP2C	X	-72.338	4.42
35	MP2C	Z	-41.764	4.42
36	MP2C	Mx	-.014	4.42
37	MP2A	X	-35.75	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
38	MP2A	Z	-20.64	1.67
39	MP2A	Mx	.018	1.67
40	MP2A	X	-35.75	3.67
41	MP2A	Z	-20.64	3.67
42	MP2A	Mx	.018	3.67
43	MP2B	X	-70.334	1.67
44	MP2B	Z	-40.607	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	-70.334	3.67
47	MP2B	Z	-40.607	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	-43.274	1.67
50	MP3C	Z	-24.985	1.67
51	MP3C	Mx	-.019	1.67
52	MP3C	X	-43.274	3.67
53	MP3C	Z	-24.985	3.67
54	MP3C	Mx	-.019	3.67
55	MP4A	X	-53.551	.91
56	MP4A	Z	-30.918	.91
57	MP4A	Mx	.027	.91
58	MP4A	X	-53.551	4.42
59	MP4A	Z	-30.918	4.42
60	MP4A	Mx	.027	4.42
61	MP4B	X	-84.688	.92
62	MP4B	Z	-48.895	.92
63	MP4B	Mx	0	.92
64	MP4B	X	-84.688	4.42
65	MP4B	Z	-48.895	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	-60.684	.92
68	MP5C	Z	-35.036	.92
69	MP5C	Mx	-.027	.92
70	MP5C	X	-60.684	4.42
71	MP5C	Z	-35.036	4.42
72	MP5C	Mx	-.027	4.42
73	OVP	X	-106.936	1
74	OVP	Z	-61.74	1
75	OVP	Mx	0	1
76	MP1A	X	-41.895	3
77	MP1A	Z	-24.188	3
78	MP1A	Mx	-.021	3
79	MP1B	X	-55.621	3
80	MP1B	Z	-32.113	3
81	MP1B	Mx	0	3
82	MP2C	X	-44.882	2.5
83	MP2C	Z	-25.912	2.5
84	MP2C	Mx	.02	2.5
85	MP2A	X	-36.782	3
86	MP2A	Z	-21.236	3
87	MP2A	Mx	-.018	3
88	MP2B	X	-55.621	3
89	MP2B	Z	-32.113	3
90	MP2B	Mx	0	3
91	MP3C	X	-40.881	3
92	MP3C	Z	-23.602	3
93	MP3C	Mx	.018	3
94	MP2C	X	-20.365	4.25
95	MP2C	Z	-11.758	4.25
96	MP2C	Mx	.009	4.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
97	LIGHT	X	-7.775	0
98	LIGHT	Z	-4.489	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-45.916	.92
2	MP1A	Z	-79.529	.92
3	MP1A	Mx	-.024	.92
4	MP1A	X	-45.916	4.42
5	MP1A	Z	-79.529	4.42
6	MP1A	Mx	-.024	4.42
7	MP1B	X	-45.916	.92
8	MP1B	Z	-79.529	.92
9	MP1B	Mx	.108	.92
10	MP1B	X	-45.916	4.42
11	MP1B	Z	-79.529	4.42
12	MP1B	Mx	.108	4.42
13	MP1A	X	-45.916	.92
14	MP1A	Z	-79.529	.92
15	MP1A	Mx	.108	.92
16	MP1A	X	-45.916	4.42
17	MP1A	Z	-79.529	4.42
18	MP1A	Mx	.108	4.42
19	MP1B	X	-45.916	.92
20	MP1B	Z	-79.529	.92
21	MP1B	Mx	-.024	.92
22	MP1B	X	-45.916	4.42
23	MP1B	Z	-79.529	4.42
24	MP1B	Mx	-.024	4.42
25	MP2C	X	-37.043	.92
26	MP2C	Z	-64.16	.92
27	MP2C	Mx	-.078	.92
28	MP2C	X	-37.043	4.42
29	MP2C	Z	-64.16	4.42
30	MP2C	Mx	-.078	4.42
31	MP2C	X	-37.043	.92
32	MP2C	Z	-64.16	.92
33	MP2C	Mx	-.056	.92
34	MP2C	X	-37.043	4.42
35	MP2C	Z	-64.16	4.42
36	MP2C	Mx	-.056	4.42
37	MP2A	X	-33.952	1.67
38	MP2A	Z	-58.806	1.67
39	MP2A	Mx	.017	1.67
40	MP2A	X	-33.952	3.67
41	MP2A	Z	-58.806	3.67
42	MP2A	Mx	.017	3.67
43	MP2B	X	-33.952	1.67
44	MP2B	Z	-58.806	1.67
45	MP2B	Mx	.017	1.67
46	MP2B	X	-33.952	3.67
47	MP2B	Z	-58.806	3.67
48	MP2B	Mx	.017	3.67
49	MP3C	X	-14.787	1.67
50	MP3C	Z	-25.613	1.67
51	MP3C	Mx	-.015	1.67
52	MP3C	X	-14.787	3.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
53	MP3C	Z	-25.613	3.67
54	MP3C	Mx	-.015	3.67
55	MP4A	X	-34.891	.91
56	MP4A	Z	-60.433	.91
57	MP4A	Mx	.017	.91
58	MP4A	X	-34.891	4.42
59	MP4A	Z	-60.433	4.42
60	MP4A	Mx	.017	4.42
61	MP4B	X	-42.99	.92
62	MP4B	Z	-74.462	.92
63	MP4B	Mx	.021	.92
64	MP4B	X	-42.99	4.42
65	MP4B	Z	-74.462	4.42
66	MP4B	Mx	.021	4.42
67	MP5C	X	-25.99	.92
68	MP5C	Z	-45.017	.92
69	MP5C	Mx	-.026	.92
70	MP5C	X	-25.99	4.42
71	MP5C	Z	-45.017	4.42
72	MP5C	Mx	-.026	4.42
73	OVP	X	-65.676	1
74	OVP	Z	-113.754	1
75	OVP	Mx	0	1
76	MP1A	X	-29.471	3
77	MP1A	Z	-51.046	3
78	MP1A	Mx	-.015	3
79	MP1B	X	-29.471	3
80	MP1B	Z	-51.046	3
81	MP1B	Mx	-.015	3
82	MP2C	X	-21.865	2.5
83	MP2C	Z	-37.872	2.5
84	MP2C	Mx	.022	2.5
85	MP2A	X	-28.487	3
86	MP2A	Z	-49.341	3
87	MP2A	Mx	-.014	3
88	MP2B	X	-28.487	3
89	MP2B	Z	-49.341	3
90	MP2B	Mx	-.014	3
91	MP3C	X	-18.048	3
92	MP3C	Z	-31.259	3
93	MP3C	Mx	.018	3
94	MP2C	X	-6.45	4.25
95	MP2C	Z	-11.172	4.25
96	MP2C	Mx	.006	4.25
97	LIGHT	X	-4.144	0
98	LIGHT	Z	-7.177	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	-38.679	.92
3	MP1A	Mx	-.032	.92
4	MP1A	X	0	4.42
5	MP1A	Z	-38.679	4.42
6	MP1A	Mx	-.032	4.42
7	MP1B	X	0	.92
8	MP1B	Z	-31.611	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
9	MP1B	Mx	.038	.92
10	MP1B	X	0	4.42
11	MP1B	Z	-31.611	4.42
12	MP1B	Mx	.038	4.42
13	MP1A	X	0	.92
14	MP1A	Z	-38.679	.92
15	MP1A	Mx	.032	.92
16	MP1A	X	0	4.42
17	MP1A	Z	-38.679	4.42
18	MP1A	Mx	.032	4.42
19	MP1B	X	0	.92
20	MP1B	Z	-31.611	.92
21	MP1B	Mx	.012	.92
22	MP1B	X	0	4.42
23	MP1B	Z	-31.611	4.42
24	MP1B	Mx	.012	4.42
25	MP2C	X	0	.92
26	MP2C	Z	-30.357	.92
27	MP2C	Mx	-.017	.92
28	MP2C	X	0	4.42
29	MP2C	Z	-30.357	4.42
30	MP2C	Mx	-.017	4.42
31	MP2C	X	0	.92
32	MP2C	Z	-30.357	.92
33	MP2C	Mx	-.035	.92
34	MP2C	X	0	4.42
35	MP2C	Z	-30.357	4.42
36	MP2C	Mx	-.035	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	-19.075	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	-19.075	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	-10.857	1.67
45	MP2B	Mx	.005	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	-10.857	3.67
48	MP2B	Mx	.005	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	-9.4	1.67
51	MP3C	Mx	-.004	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	-9.4	3.67
54	MP3C	Mx	-.004	3.67
55	MP4A	X	0	.91
56	MP4A	Z	-14.857	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	-14.857	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	-12.827	.92
63	MP4B	Mx	.006	.92
64	MP4B	X	0	4.42
65	MP4B	Z	-12.827	4.42
66	MP4B	Mx	.006	4.42
67	MP5C	X	0	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
68	MP5C	Z	-11.708	.92
69	MP5C	Mx	-.006	.92
70	MP5C	X	0	4.42
71	MP5C	Z	-11.708	4.42
72	MP5C	Mx	-.006	4.42
73	OVP	X	0	1
74	OVP	Z	-31.235	1
75	OVP	Mx	0	1
76	MP1A	X	0	3
77	MP1A	Z	-16.068	3
78	MP1A	Mx	0	3
79	MP1B	X	0	3
80	MP1B	Z	-12.396	3
81	MP1B	Mx	-.005	3
82	MP2C	X	0	2.5
83	MP2C	Z	-11.745	2.5
84	MP2C	Mx	.006	2.5
85	MP2A	X	0	3
86	MP2A	Z	-16.068	3
87	MP2A	Mx	0	3
88	MP2B	X	0	3
89	MP2B	Z	-11.001	3
90	MP2B	Mx	-.005	3
91	MP3C	X	0	3
92	MP3C	Z	-10.102	3
93	MP3C	Mx	.005	3
94	MP2C	X	0	4.25
95	MP2C	Z	-3.963	4.25
96	MP2C	Mx	.002	4.25
97	LIGHT	X	0	0
98	LIGHT	Z	-3.06	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	18.161	.92
2	MP1A	Z	-31.456	.92
3	MP1A	Mx	-.043	.92
4	MP1A	X	18.161	4.42
5	MP1A	Z	-31.456	4.42
6	MP1A	Mx	-.043	4.42
7	MP1B	X	14.628	.92
8	MP1B	Z	-25.336	.92
9	MP1B	Mx	.027	.92
10	MP1B	X	14.628	4.42
11	MP1B	Z	-25.336	4.42
12	MP1B	Mx	.027	4.42
13	MP1A	X	18.161	.92
14	MP1A	Z	-31.456	.92
15	MP1A	Mx	.01	.92
16	MP1A	X	18.161	4.42
17	MP1A	Z	-31.456	4.42
18	MP1A	Mx	.01	4.42
19	MP1B	X	14.628	.92
20	MP1B	Z	-25.336	.92
21	MP1B	Mx	.027	.92
22	MP1B	X	14.628	4.42
23	MP1B	Z	-25.336	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP1B	Mx	.027	4.42
25	MP2C	X	17.393	.92
26	MP2C	Z	-30.125	.92
27	MP2C	Mx	.002	.92
28	MP2C	X	17.393	4.42
29	MP2C	Z	-30.125	4.42
30	MP2C	Mx	.002	4.42
31	MP2C	X	17.393	.92
32	MP2C	Z	-30.125	.92
33	MP2C	Mx	-.043	.92
34	MP2C	X	17.393	4.42
35	MP2C	Z	-30.125	4.42
36	MP2C	Mx	-.043	4.42
37	MP2A	X	8.168	1.67
38	MP2A	Z	-14.147	1.67
39	MP2A	Mx	-.004	1.67
40	MP2A	X	8.168	3.67
41	MP2A	Z	-14.147	3.67
42	MP2A	Mx	-.004	3.67
43	MP2B	X	4.059	1.67
44	MP2B	Z	-7.031	1.67
45	MP2B	Mx	.004	1.67
46	MP2B	X	4.059	3.67
47	MP2B	Z	-7.031	3.67
48	MP2B	Mx	.004	3.67
49	MP3C	X	7.274	1.67
50	MP3C	Z	-12.599	1.67
51	MP3C	Mx	-.005	1.67
52	MP3C	X	7.274	3.67
53	MP3C	Z	-12.599	3.67
54	MP3C	Mx	-.005	3.67
55	MP4A	X	7.071	.91
56	MP4A	Z	-12.246	.91
57	MP4A	Mx	-.004	.91
58	MP4A	X	7.071	4.42
59	MP4A	Z	-12.246	4.42
60	MP4A	Mx	-.004	4.42
61	MP4B	X	5.362	.92
62	MP4B	Z	-9.288	.92
63	MP4B	Mx	.005	.92
64	MP4B	X	5.362	4.42
65	MP4B	Z	-9.288	4.42
66	MP4B	Mx	.005	4.42
67	MP5C	X	7.83	.92
68	MP5C	Z	-13.562	.92
69	MP5C	Mx	-.005	.92
70	MP5C	X	7.83	4.42
71	MP5C	Z	-13.562	4.42
72	MP5C	Mx	-.005	4.42
73	OVP	X	13.815	1
74	OVP	Z	-23.929	1
75	OVP	Mx	0	1
76	MP1A	X	7.422	3
77	MP1A	Z	-12.855	3
78	MP1A	Mx	.004	3
79	MP1B	X	5.586	3
80	MP1B	Z	-9.675	3
81	MP1B	Mx	-.006	3
82	MP2C	X	7.022	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP2C	Z	-12.163	2.5
84	MP2C	Mx	.005	2.5
85	MP2A	X	7.189	3
86	MP2A	Z	-12.452	3
87	MP2A	Mx	.004	3
88	MP2B	X	4.656	3
89	MP2B	Z	-8.064	3
90	MP2B	Mx	-.005	3
91	MP3C	X	6.638	3
92	MP3C	Z	-11.497	3
93	MP3C	Mx	.004	3
94	MP2C	X	3.275	4.25
95	MP2C	Z	-5.673	4.25
96	MP2C	Mx	.002	4.25
97	LIGHT	X	1.53	0
98	LIGHT	Z	-2.65	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	27.376	.92
2	MP1A	Z	-15.805	.92
3	MP1A	Mx	-.038	.92
4	MP1A	X	27.376	4.42
5	MP1A	Z	-15.805	4.42
6	MP1A	Mx	-.038	4.42
7	MP1B	X	27.376	.92
8	MP1B	Z	-15.805	.92
9	MP1B	Mx	.012	.92
10	MP1B	X	27.376	4.42
11	MP1B	Z	-15.805	4.42
12	MP1B	Mx	.012	4.42
13	MP1A	X	27.376	.92
14	MP1A	Z	-15.805	.92
15	MP1A	Mx	-.012	.92
16	MP1A	X	27.376	4.42
17	MP1A	Z	-15.805	4.42
18	MP1A	Mx	-.012	4.42
19	MP1B	X	27.376	.92
20	MP1B	Z	-15.805	.92
21	MP1B	Mx	.038	.92
22	MP1B	X	27.376	4.42
23	MP1B	Z	-15.805	4.42
24	MP1B	Mx	.038	4.42
25	MP2C	X	33.251	.92
26	MP2C	Z	-19.197	.92
27	MP2C	Mx	.025	.92
28	MP2C	X	33.251	4.42
29	MP2C	Z	-19.197	4.42
30	MP2C	Mx	.025	4.42
31	MP2C	X	33.251	.92
32	MP2C	Z	-19.197	.92
33	MP2C	Mx	-.038	.92
34	MP2C	X	33.251	4.42
35	MP2C	Z	-19.197	4.42
36	MP2C	Mx	-.038	4.42
37	MP2A	X	9.403	1.67
38	MP2A	Z	-5.429	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
39	MP2A	Mx	-.005	1.67
40	MP2A	X	9.403	3.67
41	MP2A	Z	-5.429	3.67
42	MP2A	Mx	-.005	3.67
43	MP2B	X	9.403	1.67
44	MP2B	Z	-5.429	1.67
45	MP2B	Mx	.005	1.67
46	MP2B	X	9.403	3.67
47	MP2B	Z	-5.429	3.67
48	MP2B	Mx	.005	3.67
49	MP3C	X	16.233	1.67
50	MP3C	Z	-9.372	1.67
51	MP3C	Mx	-.002	1.67
52	MP3C	X	16.233	3.67
53	MP3C	Z	-9.372	3.67
54	MP3C	Mx	-.002	3.67
55	MP4A	X	11.006	.91
56	MP4A	Z	-6.354	.91
57	MP4A	Mx	-.006	.91
58	MP4A	X	11.006	4.42
59	MP4A	Z	-6.354	4.42
60	MP4A	Mx	-.006	4.42
61	MP4B	X	11.108	.92
62	MP4B	Z	-6.413	.92
63	MP4B	Mx	.006	.92
64	MP4B	X	11.108	4.42
65	MP4B	Z	-6.413	4.42
66	MP4B	Mx	.006	4.42
67	MP5C	X	16.351	.92
68	MP5C	Z	-9.44	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	16.351	4.42
71	MP5C	Z	-9.44	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	22.368	1
74	OVP	Z	-12.914	1
75	OVP	Mx	0	1
76	MP1A	X	10.735	3
77	MP1A	Z	-6.198	3
78	MP1A	Mx	.005	3
79	MP1B	X	10.735	3
80	MP1B	Z	-6.198	3
81	MP1B	Mx	-.005	3
82	MP2C	X	13.787	2.5
83	MP2C	Z	-7.96	2.5
84	MP2C	Mx	.001	2.5
85	MP2A	X	9.527	3
86	MP2A	Z	-5.5	3
87	MP2A	Mx	.005	3
88	MP2B	X	9.527	3
89	MP2B	Z	-5.5	3
90	MP2B	Mx	-.005	3
91	MP3C	X	13.738	3
92	MP3C	Z	-7.932	3
93	MP3C	Mx	.001	3
94	MP2C	X	7.5	4.25
95	MP2C	Z	-4.33	4.25
96	MP2C	Mx	.000752	4.25
97	LIGHT	X	2.65	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
98	LIGHT	Z	-1.53	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	29.255	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	-.027	.92
4	MP1A	X	29.255	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	-.027	4.42
7	MP1B	X	36.323	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	-.01	.92
10	MP1B	X	36.323	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	-.01	4.42
13	MP1A	X	29.255	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	-.027	.92
16	MP1A	X	29.255	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	-.027	4.42
19	MP1B	X	36.323	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	.043	.92
22	MP1B	X	36.323	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	.043	4.42
25	MP2C	X	37.576	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	.041	.92
28	MP2C	X	37.576	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	.041	4.42
31	MP2C	X	37.576	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	-.018	.92
34	MP2C	X	37.576	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	-.018	4.42
37	MP2A	X	8.118	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	-.004	1.67
40	MP2A	X	8.118	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	-.004	3.67
43	MP2B	X	16.336	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	.004	1.67
46	MP2B	X	16.336	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	.004	3.67
49	MP3C	X	17.793	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	.003	1.67
52	MP3C	X	17.793	3.67
53	MP3C	Z	0	3.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
54	MP3C	Mx	.003	3.67
55	MP4A	X	11.992	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	-.006	.91
58	MP4A	X	11.992	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	-.006	4.42
61	MP4B	X	17.032	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	.004	.92
64	MP4B	X	17.032	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	.004	4.42
67	MP5C	X	18.15	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	.003	.92
70	MP5C	X	18.15	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	.003	4.42
73	OVP	X	27.631	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	11.172	3
77	MP1A	Z	0	3
78	MP1A	Mx	.006	3
79	MP1B	X	14.844	3
80	MP1B	Z	0	3
81	MP1B	Mx	-.004	3
82	MP2C	X	15.495	2.5
83	MP2C	Z	0	2.5
84	MP2C	Mx	-.003	2.5
85	MP2A	X	9.312	3
86	MP2A	Z	0	3
87	MP2A	Mx	.005	3
88	MP2B	X	14.379	3
89	MP2B	Z	0	3
90	MP2B	Mx	-.004	3
91	MP3C	X	15.277	3
92	MP3C	Z	0	3
93	MP3C	Mx	-.003	3
94	MP2C	X	8.182	4.25
95	MP2C	Z	0	4.25
96	MP2C	Mx	-.001	4.25
97	LIGHT	X	3.06	0
98	LIGHT	Z	0	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	27.376	.92
2	MP1A	Z	15.805	.92
3	MP1A	Mx	-.012	.92
4	MP1A	X	27.376	4.42
5	MP1A	Z	15.805	4.42
6	MP1A	Mx	-.012	4.42
7	MP1B	X	33.497	.92
8	MP1B	Z	19.339	.92
9	MP1B	Mx	-.032	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
10	MP1B	X	33.497	4.42
11	MP1B	Z	19.339	4.42
12	MP1B	Mx	-.032	4.42
13	MP1A	X	27.376	.92
14	MP1A	Z	15.805	.92
15	MP1A	Mx	-.038	.92
16	MP1A	X	27.376	4.42
17	MP1A	Z	15.805	4.42
18	MP1A	Mx	-.038	4.42
19	MP1B	X	33.497	.92
20	MP1B	Z	19.339	.92
21	MP1B	Mx	.032	.92
22	MP1B	X	33.497	4.42
23	MP1B	Z	19.339	4.42
24	MP1B	Mx	.032	4.42
25	MP2C	X	28.708	.92
26	MP2C	Z	16.574	.92
27	MP2C	Mx	.041	.92
28	MP2C	X	28.708	4.42
29	MP2C	Z	16.574	4.42
30	MP2C	Mx	.041	4.42
31	MP2C	X	28.708	.92
32	MP2C	Z	16.574	.92
33	MP2C	Mx	.006	.92
34	MP2C	X	28.708	4.42
35	MP2C	Z	16.574	4.42
36	MP2C	Mx	.006	4.42
37	MP2A	X	9.403	1.67
38	MP2A	Z	5.429	1.67
39	MP2A	Mx	-.005	1.67
40	MP2A	X	9.403	3.67
41	MP2A	Z	5.429	3.67
42	MP2A	Mx	-.005	3.67
43	MP2B	X	16.519	1.67
44	MP2B	Z	9.538	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	16.519	3.67
47	MP2B	Z	9.538	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	10.951	1.67
50	MP3C	Z	6.323	1.67
51	MP3C	Mx	.005	1.67
52	MP3C	X	10.951	3.67
53	MP3C	Z	6.323	3.67
54	MP3C	Mx	.005	3.67
55	MP4A	X	11.006	.91
56	MP4A	Z	6.354	.91
57	MP4A	Mx	-.006	.91
58	MP4A	X	11.006	4.42
59	MP4A	Z	6.354	4.42
60	MP4A	Mx	-.006	4.42
61	MP4B	X	16.571	.92
62	MP4B	Z	9.567	.92
63	MP4B	Mx	0	.92
64	MP4B	X	16.571	4.42
65	MP4B	Z	9.567	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	12.297	.92
68	MP5C	Z	7.1	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
69	MP5C	Mx	.005	.92
70	MP5C	X	12.297	4.42
71	MP5C	Z	7.1	4.42
72	MP5C	Mx	.005	4.42
73	OVP	X	27.05	1
74	OVP	Z	15.617	1
75	OVP	Mx	0	1
76	MP1A	X	10.735	3
77	MP1A	Z	6.198	3
78	MP1A	Mx	.005	3
79	MP1B	X	13.915	3
80	MP1B	Z	8.034	3
81	MP1B	Mx	0	3
82	MP2C	X	11.427	2.5
83	MP2C	Z	6.597	2.5
84	MP2C	Mx	-.005	2.5
85	MP2A	X	9.527	3
86	MP2A	Z	5.5	3
87	MP2A	Mx	.005	3
88	MP2B	X	13.915	3
89	MP2B	Z	8.034	3
90	MP2B	Mx	0	3
91	MP3C	X	10.482	3
92	MP3C	Z	6.052	3
93	MP3C	Mx	-.005	3
94	MP2C	X	4.845	4.25
95	MP2C	Z	2.797	4.25
96	MP2C	Mx	-.002	4.25
97	LIGHT	X	2.65	0
98	LIGHT	Z	1.53	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	18.161	.92
2	MP1A	Z	31.456	.92
3	MP1A	Mx	.01	.92
4	MP1A	X	18.161	4.42
5	MP1A	Z	31.456	4.42
6	MP1A	Mx	.01	4.42
7	MP1B	X	18.161	.92
8	MP1B	Z	31.456	.92
9	MP1B	Mx	-.043	.92
10	MP1B	X	18.161	4.42
11	MP1B	Z	31.456	4.42
12	MP1B	Mx	-.043	4.42
13	MP1A	X	18.161	.92
14	MP1A	Z	31.456	.92
15	MP1A	Mx	-.043	.92
16	MP1A	X	18.161	4.42
17	MP1A	Z	31.456	4.42
18	MP1A	Mx	-.043	4.42
19	MP1B	X	18.161	.92
20	MP1B	Z	31.456	.92
21	MP1B	Mx	.01	.92
22	MP1B	X	18.161	4.42
23	MP1B	Z	31.456	4.42
24	MP1B	Mx	.01	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
25	MP2C	X	14.77	.92
26	MP2C	Z	25.582	.92
27	MP2C	Mx	.031	.92
28	MP2C	X	14.77	4.42
29	MP2C	Z	25.582	4.42
30	MP2C	Mx	.031	4.42
31	MP2C	X	14.77	.92
32	MP2C	Z	25.582	.92
33	MP2C	Mx	.022	.92
34	MP2C	X	14.77	4.42
35	MP2C	Z	25.582	4.42
36	MP2C	Mx	.022	4.42
37	MP2A	X	8.168	1.67
38	MP2A	Z	14.147	1.67
39	MP2A	Mx	-.004	1.67
40	MP2A	X	8.168	3.67
41	MP2A	Z	14.147	3.67
42	MP2A	Mx	-.004	3.67
43	MP2B	X	8.168	1.67
44	MP2B	Z	14.147	1.67
45	MP2B	Mx	-.004	1.67
46	MP2B	X	8.168	3.67
47	MP2B	Z	14.147	3.67
48	MP2B	Mx	-.004	3.67
49	MP3C	X	4.224	1.67
50	MP3C	Z	7.317	1.67
51	MP3C	Mx	.004	1.67
52	MP3C	X	4.224	3.67
53	MP3C	Z	7.317	3.67
54	MP3C	Mx	.004	3.67
55	MP4A	X	7.071	.91
56	MP4A	Z	12.246	.91
57	MP4A	Mx	-.004	.91
58	MP4A	X	7.071	4.42
59	MP4A	Z	12.246	4.42
60	MP4A	Mx	-.004	4.42
61	MP4B	X	8.516	.92
62	MP4B	Z	14.75	.92
63	MP4B	Mx	-.004	.92
64	MP4B	X	8.516	4.42
65	MP4B	Z	14.75	4.42
66	MP4B	Mx	-.004	4.42
67	MP5C	X	5.489	.92
68	MP5C	Z	9.507	.92
69	MP5C	Mx	.005	.92
70	MP5C	X	5.489	4.42
71	MP5C	Z	9.507	4.42
72	MP5C	Mx	.005	4.42
73	OVP	X	16.519	1
74	OVP	Z	28.611	1
75	OVP	Mx	0	1
76	MP1A	X	7.422	3
77	MP1A	Z	12.855	3
78	MP1A	Mx	.004	3
79	MP1B	X	7.422	3
80	MP1B	Z	12.855	3
81	MP1B	Mx	.004	3
82	MP2C	X	5.66	2.5
83	MP2C	Z	9.803	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
84	MP2C	Mx	-.006	2.5
85	MP2A	X	7.189	3
86	MP2A	Z	12.452	3
87	MP2A	Mx	.004	3
88	MP2B	X	7.189	3
89	MP2B	Z	12.452	3
90	MP2B	Mx	.004	3
91	MP3C	X	4.758	3
92	MP3C	Z	8.241	3
93	MP3C	Mx	-.005	3
94	MP2C	X	1.742	4.25
95	MP2C	Z	3.018	4.25
96	MP2C	Mx	-.002	4.25
97	LIGHT	X	1.53	0
98	LIGHT	Z	2.65	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	38.679	.92
3	MP1A	Mx	.032	.92
4	MP1A	X	0	4.42
5	MP1A	Z	38.679	4.42
6	MP1A	Mx	.032	4.42
7	MP1B	X	0	.92
8	MP1B	Z	31.611	.92
9	MP1B	Mx	-.038	.92
10	MP1B	X	0	4.42
11	MP1B	Z	31.611	4.42
12	MP1B	Mx	-.038	4.42
13	MP1A	X	0	.92
14	MP1A	Z	38.679	.92
15	MP1A	Mx	-.032	.92
16	MP1A	X	0	4.42
17	MP1A	Z	38.679	4.42
18	MP1A	Mx	-.032	4.42
19	MP1B	X	0	.92
20	MP1B	Z	31.611	.92
21	MP1B	Mx	-.012	.92
22	MP1B	X	0	4.42
23	MP1B	Z	31.611	4.42
24	MP1B	Mx	-.012	4.42
25	MP2C	X	0	.92
26	MP2C	Z	30.357	.92
27	MP2C	Mx	.017	.92
28	MP2C	X	0	4.42
29	MP2C	Z	30.357	4.42
30	MP2C	Mx	.017	4.42
31	MP2C	X	0	.92
32	MP2C	Z	30.357	.92
33	MP2C	Mx	.035	.92
34	MP2C	X	0	4.42
35	MP2C	Z	30.357	4.42
36	MP2C	Mx	.035	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	19.075	1.67
39	MP2A	Mx	0	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP2A	X	0	3.67
41	MP2A	Z	19.075	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	10.857	1.67
45	MP2B	Mx	-.005	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	10.857	3.67
48	MP2B	Mx	-.005	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	9.4	1.67
51	MP3C	Mx	.004	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	9.4	3.67
54	MP3C	Mx	.004	3.67
55	MP4A	X	0	.91
56	MP4A	Z	14.857	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	14.857	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	12.827	.92
63	MP4B	Mx	-.006	.92
64	MP4B	X	0	4.42
65	MP4B	Z	12.827	4.42
66	MP4B	Mx	-.006	4.42
67	MP5C	X	0	.92
68	MP5C	Z	11.708	.92
69	MP5C	Mx	.006	.92
70	MP5C	X	0	4.42
71	MP5C	Z	11.708	4.42
72	MP5C	Mx	.006	4.42
73	OVP	X	0	1
74	OVP	Z	31.235	1
75	OVP	Mx	0	1
76	MP1A	X	0	3
77	MP1A	Z	16.068	3
78	MP1A	Mx	0	3
79	MP1B	X	0	3
80	MP1B	Z	12.396	3
81	MP1B	Mx	.005	3
82	MP2C	X	0	2.5
83	MP2C	Z	11.745	2.5
84	MP2C	Mx	-.006	2.5
85	MP2A	X	0	3
86	MP2A	Z	16.068	3
87	MP2A	Mx	0	3
88	MP2B	X	0	3
89	MP2B	Z	11.001	3
90	MP2B	Mx	.005	3
91	MP3C	X	0	3
92	MP3C	Z	10.102	3
93	MP3C	Mx	-.005	3
94	MP2C	X	0	4.25
95	MP2C	Z	3.963	4.25
96	MP2C	Mx	-.002	4.25
97	LIGHT	X	0	0
98	LIGHT	Z	3.06	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-18.161	.92
2	MP1A	Z	31.456	.92
3	MP1A	Mx	.043	.92
4	MP1A	X	-18.161	4.42
5	MP1A	Z	31.456	4.42
6	MP1A	Mx	.043	4.42
7	MP1B	X	-14.628	.92
8	MP1B	Z	25.336	.92
9	MP1B	Mx	-.027	.92
10	MP1B	X	-14.628	4.42
11	MP1B	Z	25.336	4.42
12	MP1B	Mx	-.027	4.42
13	MP1A	X	-18.161	.92
14	MP1A	Z	31.456	.92
15	MP1A	Mx	-.01	.92
16	MP1A	X	-18.161	4.42
17	MP1A	Z	31.456	4.42
18	MP1A	Mx	-.01	4.42
19	MP1B	X	-14.628	.92
20	MP1B	Z	25.336	.92
21	MP1B	Mx	-.027	.92
22	MP1B	X	-14.628	4.42
23	MP1B	Z	25.336	4.42
24	MP1B	Mx	-.027	4.42
25	MP2C	X	-17.393	.92
26	MP2C	Z	30.125	.92
27	MP2C	Mx	-.002	.92
28	MP2C	X	-17.393	4.42
29	MP2C	Z	30.125	4.42
30	MP2C	Mx	-.002	4.42
31	MP2C	X	-17.393	.92
32	MP2C	Z	30.125	.92
33	MP2C	Mx	.043	.92
34	MP2C	X	-17.393	4.42
35	MP2C	Z	30.125	4.42
36	MP2C	Mx	.043	4.42
37	MP2A	X	-8.168	1.67
38	MP2A	Z	14.147	1.67
39	MP2A	Mx	.004	1.67
40	MP2A	X	-8.168	3.67
41	MP2A	Z	14.147	3.67
42	MP2A	Mx	.004	3.67
43	MP2B	X	-4.059	1.67
44	MP2B	Z	7.031	1.67
45	MP2B	Mx	-.004	1.67
46	MP2B	X	-4.059	3.67
47	MP2B	Z	7.031	3.67
48	MP2B	Mx	-.004	3.67
49	MP3C	X	-7.274	1.67
50	MP3C	Z	12.599	1.67
51	MP3C	Mx	.005	1.67
52	MP3C	X	-7.274	3.67
53	MP3C	Z	12.599	3.67
54	MP3C	Mx	.005	3.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
55	MP4A	X	-7.071	.91
56	MP4A	Z	12.246	.91
57	MP4A	Mx	.004	.91
58	MP4A	X	-7.071	4.42
59	MP4A	Z	12.246	4.42
60	MP4A	Mx	.004	4.42
61	MP4B	X	-5.362	.92
62	MP4B	Z	9.288	.92
63	MP4B	Mx	-.005	.92
64	MP4B	X	-5.362	4.42
65	MP4B	Z	9.288	4.42
66	MP4B	Mx	-.005	4.42
67	MP5C	X	-7.83	.92
68	MP5C	Z	13.562	.92
69	MP5C	Mx	.005	.92
70	MP5C	X	-7.83	4.42
71	MP5C	Z	13.562	4.42
72	MP5C	Mx	.005	4.42
73	OVP	X	-13.815	1
74	OVP	Z	23.929	1
75	OVP	Mx	0	1
76	MP1A	X	-7.422	3
77	MP1A	Z	12.855	3
78	MP1A	Mx	-.004	3
79	MP1B	X	-5.586	3
80	MP1B	Z	9.675	3
81	MP1B	Mx	.006	3
82	MP2C	X	-7.022	2.5
83	MP2C	Z	12.163	2.5
84	MP2C	Mx	-.005	2.5
85	MP2A	X	-7.189	3
86	MP2A	Z	12.452	3
87	MP2A	Mx	-.004	3
88	MP2B	X	-4.656	3
89	MP2B	Z	8.064	3
90	MP2B	Mx	.005	3
91	MP3C	X	-6.638	3
92	MP3C	Z	11.497	3
93	MP3C	Mx	-.004	3
94	MP2C	X	-3.275	4.25
95	MP2C	Z	5.673	4.25
96	MP2C	Mx	-.002	4.25
97	LIGHT	X	-1.53	0
98	LIGHT	Z	2.65	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-27.376	.92
2	MP1A	Z	15.805	.92
3	MP1A	Mx	.038	.92
4	MP1A	X	-27.376	4.42
5	MP1A	Z	15.805	4.42
6	MP1A	Mx	.038	4.42
7	MP1B	X	-27.376	.92
8	MP1B	Z	15.805	.92
9	MP1B	Mx	-.012	.92
10	MP1B	X	-27.376	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
11	MP1B	Z	15.805	4.42
12	MP1B	Mx	-.012	4.42
13	MP1A	X	-27.376	.92
14	MP1A	Z	15.805	.92
15	MP1A	Mx	.012	.92
16	MP1A	X	-27.376	4.42
17	MP1A	Z	15.805	4.42
18	MP1A	Mx	.012	4.42
19	MP1B	X	-27.376	.92
20	MP1B	Z	15.805	.92
21	MP1B	Mx	-.038	.92
22	MP1B	X	-27.376	4.42
23	MP1B	Z	15.805	4.42
24	MP1B	Mx	-.038	4.42
25	MP2C	X	-33.251	.92
26	MP2C	Z	19.197	.92
27	MP2C	Mx	-.025	.92
28	MP2C	X	-33.251	4.42
29	MP2C	Z	19.197	4.42
30	MP2C	Mx	-.025	4.42
31	MP2C	X	-33.251	.92
32	MP2C	Z	19.197	.92
33	MP2C	Mx	.038	.92
34	MP2C	X	-33.251	4.42
35	MP2C	Z	19.197	4.42
36	MP2C	Mx	.038	4.42
37	MP2A	X	-9.403	1.67
38	MP2A	Z	5.429	1.67
39	MP2A	Mx	.005	1.67
40	MP2A	X	-9.403	3.67
41	MP2A	Z	5.429	3.67
42	MP2A	Mx	.005	3.67
43	MP2B	X	-9.403	1.67
44	MP2B	Z	5.429	1.67
45	MP2B	Mx	-.005	1.67
46	MP2B	X	-9.403	3.67
47	MP2B	Z	5.429	3.67
48	MP2B	Mx	-.005	3.67
49	MP3C	X	-16.233	1.67
50	MP3C	Z	9.372	1.67
51	MP3C	Mx	.002	1.67
52	MP3C	X	-16.233	3.67
53	MP3C	Z	9.372	3.67
54	MP3C	Mx	.002	3.67
55	MP4A	X	-11.006	.91
56	MP4A	Z	6.354	.91
57	MP4A	Mx	.006	.91
58	MP4A	X	-11.006	4.42
59	MP4A	Z	6.354	4.42
60	MP4A	Mx	.006	4.42
61	MP4B	X	-11.108	.92
62	MP4B	Z	6.413	.92
63	MP4B	Mx	-.006	.92
64	MP4B	X	-11.108	4.42
65	MP4B	Z	6.413	4.42
66	MP4B	Mx	-.006	4.42
67	MP5C	X	-16.351	.92
68	MP5C	Z	9.44	.92
69	MP5C	Mx	.002	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP5C	X	-16.351	4.42
71	MP5C	Z	9.44	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	-22.368	1
74	OVP	Z	12.914	1
75	OVP	Mx	0	1
76	MP1A	X	-10.735	3
77	MP1A	Z	6.198	3
78	MP1A	Mx	-.005	3
79	MP1B	X	-10.735	3
80	MP1B	Z	6.198	3
81	MP1B	Mx	.005	3
82	MP2C	X	-13.787	2.5
83	MP2C	Z	7.96	2.5
84	MP2C	Mx	-.001	2.5
85	MP2A	X	-9.527	3
86	MP2A	Z	5.5	3
87	MP2A	Mx	-.005	3
88	MP2B	X	-9.527	3
89	MP2B	Z	5.5	3
90	MP2B	Mx	.005	3
91	MP3C	X	-13.738	3
92	MP3C	Z	7.932	3
93	MP3C	Mx	-.001	3
94	MP2C	X	-7.5	4.25
95	MP2C	Z	4.33	4.25
96	MP2C	Mx	-.000752	4.25
97	LIGHT	X	-2.65	0
98	LIGHT	Z	1.53	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-29.255	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	.027	.92
4	MP1A	X	-29.255	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	.027	4.42
7	MP1B	X	-36.323	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	.01	.92
10	MP1B	X	-36.323	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	.01	4.42
13	MP1A	X	-29.255	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	.027	.92
16	MP1A	X	-29.255	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	.027	4.42
19	MP1B	X	-36.323	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	-.043	.92
22	MP1B	X	-36.323	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	-.043	4.42
25	MP2C	X	-37.576	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP2C	Z	0	.92
27	MP2C	Mx	-.041	.92
28	MP2C	X	-37.576	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	-.041	4.42
31	MP2C	X	-37.576	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.018	.92
34	MP2C	X	-37.576	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	.018	4.42
37	MP2A	X	-8.118	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	.004	1.67
40	MP2A	X	-8.118	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	.004	3.67
43	MP2B	X	-16.336	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	-.004	1.67
46	MP2B	X	-16.336	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	-.004	3.67
49	MP3C	X	-17.793	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	-.003	1.67
52	MP3C	X	-17.793	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	-.003	3.67
55	MP4A	X	-11.992	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	.006	.91
58	MP4A	X	-11.992	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	.006	4.42
61	MP4B	X	-17.032	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	-.004	.92
64	MP4B	X	-17.032	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	-.004	4.42
67	MP5C	X	-18.15	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	-.003	.92
70	MP5C	X	-18.15	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	-.003	4.42
73	OVP	X	-27.631	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-11.172	3
77	MP1A	Z	0	3
78	MP1A	Mx	-.006	3
79	MP1B	X	-14.844	3
80	MP1B	Z	0	3
81	MP1B	Mx	.004	3
82	MP2C	X	-15.495	2.5
83	MP2C	Z	0	2.5
84	MP2C	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
85	MP2A	X	-9.312	3
86	MP2A	Z	0	3
87	MP2A	Mx	-.005	3
88	MP2B	X	-14.379	3
89	MP2B	Z	0	3
90	MP2B	Mx	.004	3
91	MP3C	X	-15.277	3
92	MP3C	Z	0	3
93	MP3C	Mx	.003	3
94	MP2C	X	-8.182	4.25
95	MP2C	Z	0	4.25
96	MP2C	Mx	.001	4.25
97	LIGHT	X	-3.06	0
98	LIGHT	Z	0	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-27.376	.92
2	MP1A	Z	-15.805	.92
3	MP1A	Mx	.012	.92
4	MP1A	X	-27.376	4.42
5	MP1A	Z	-15.805	4.42
6	MP1A	Mx	.012	4.42
7	MP1B	X	-33.497	.92
8	MP1B	Z	-19.339	.92
9	MP1B	Mx	.032	.92
10	MP1B	X	-33.497	4.42
11	MP1B	Z	-19.339	4.42
12	MP1B	Mx	.032	4.42
13	MP1A	X	-27.376	.92
14	MP1A	Z	-15.805	.92
15	MP1A	Mx	.038	.92
16	MP1A	X	-27.376	4.42
17	MP1A	Z	-15.805	4.42
18	MP1A	Mx	.038	4.42
19	MP1B	X	-33.497	.92
20	MP1B	Z	-19.339	.92
21	MP1B	Mx	-.032	.92
22	MP1B	X	-33.497	4.42
23	MP1B	Z	-19.339	4.42
24	MP1B	Mx	-.032	4.42
25	MP2C	X	-28.708	.92
26	MP2C	Z	-16.574	.92
27	MP2C	Mx	-.041	.92
28	MP2C	X	-28.708	4.42
29	MP2C	Z	-16.574	4.42
30	MP2C	Mx	-.041	4.42
31	MP2C	X	-28.708	.92
32	MP2C	Z	-16.574	.92
33	MP2C	Mx	-.006	.92
34	MP2C	X	-28.708	4.42
35	MP2C	Z	-16.574	4.42
36	MP2C	Mx	-.006	4.42
37	MP2A	X	-9.403	1.67
38	MP2A	Z	-5.429	1.67
39	MP2A	Mx	.005	1.67
40	MP2A	X	-9.403	3.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP2A	Z	-5.429	3.67
42	MP2A	Mx	.005	3.67
43	MP2B	X	-16.519	1.67
44	MP2B	Z	-9.538	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	-16.519	3.67
47	MP2B	Z	-9.538	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	-10.951	1.67
50	MP3C	Z	-6.323	1.67
51	MP3C	Mx	-.005	1.67
52	MP3C	X	-10.951	3.67
53	MP3C	Z	-6.323	3.67
54	MP3C	Mx	-.005	3.67
55	MP4A	X	-11.006	.91
56	MP4A	Z	-6.354	.91
57	MP4A	Mx	.006	.91
58	MP4A	X	-11.006	4.42
59	MP4A	Z	-6.354	4.42
60	MP4A	Mx	.006	4.42
61	MP4B	X	-16.571	.92
62	MP4B	Z	-9.567	.92
63	MP4B	Mx	0	.92
64	MP4B	X	-16.571	4.42
65	MP4B	Z	-9.567	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	-12.297	.92
68	MP5C	Z	-7.1	.92
69	MP5C	Mx	-.005	.92
70	MP5C	X	-12.297	4.42
71	MP5C	Z	-7.1	4.42
72	MP5C	Mx	-.005	4.42
73	OVP	X	-27.05	1
74	OVP	Z	-15.617	1
75	OVP	Mx	0	1
76	MP1A	X	-10.735	3
77	MP1A	Z	-6.198	3
78	MP1A	Mx	-.005	3
79	MP1B	X	-13.915	3
80	MP1B	Z	-8.034	3
81	MP1B	Mx	0	3
82	MP2C	X	-11.427	2.5
83	MP2C	Z	-6.597	2.5
84	MP2C	Mx	.005	2.5
85	MP2A	X	-9.527	3
86	MP2A	Z	-5.5	3
87	MP2A	Mx	-.005	3
88	MP2B	X	-13.915	3
89	MP2B	Z	-8.034	3
90	MP2B	Mx	0	3
91	MP3C	X	-10.482	3
92	MP3C	Z	-6.052	3
93	MP3C	Mx	.005	3
94	MP2C	X	-4.845	4.25
95	MP2C	Z	-2.797	4.25
96	MP2C	Mx	.002	4.25
97	LIGHT	X	-2.65	0
98	LIGHT	Z	-1.53	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-18.161	.92
2	MP1A	Z	-31.456	.92
3	MP1A	Mx	-.01	.92
4	MP1A	X	-18.161	4.42
5	MP1A	Z	-31.456	4.42
6	MP1A	Mx	-.01	4.42
7	MP1B	X	-18.161	.92
8	MP1B	Z	-31.456	.92
9	MP1B	Mx	.043	.92
10	MP1B	X	-18.161	4.42
11	MP1B	Z	-31.456	4.42
12	MP1B	Mx	.043	4.42
13	MP1A	X	-18.161	.92
14	MP1A	Z	-31.456	.92
15	MP1A	Mx	.043	.92
16	MP1A	X	-18.161	4.42
17	MP1A	Z	-31.456	4.42
18	MP1A	Mx	.043	4.42
19	MP1B	X	-18.161	.92
20	MP1B	Z	-31.456	.92
21	MP1B	Mx	-.01	.92
22	MP1B	X	-18.161	4.42
23	MP1B	Z	-31.456	4.42
24	MP1B	Mx	-.01	4.42
25	MP2C	X	-14.77	.92
26	MP2C	Z	-25.582	.92
27	MP2C	Mx	-.031	.92
28	MP2C	X	-14.77	4.42
29	MP2C	Z	-25.582	4.42
30	MP2C	Mx	-.031	4.42
31	MP2C	X	-14.77	.92
32	MP2C	Z	-25.582	.92
33	MP2C	Mx	-.022	.92
34	MP2C	X	-14.77	4.42
35	MP2C	Z	-25.582	4.42
36	MP2C	Mx	-.022	4.42
37	MP2A	X	-8.168	1.67
38	MP2A	Z	-14.147	1.67
39	MP2A	Mx	.004	1.67
40	MP2A	X	-8.168	3.67
41	MP2A	Z	-14.147	3.67
42	MP2A	Mx	.004	3.67
43	MP2B	X	-8.168	1.67
44	MP2B	Z	-14.147	1.67
45	MP2B	Mx	.004	1.67
46	MP2B	X	-8.168	3.67
47	MP2B	Z	-14.147	3.67
48	MP2B	Mx	.004	3.67
49	MP3C	X	-4.224	1.67
50	MP3C	Z	-7.317	1.67
51	MP3C	Mx	-.004	1.67
52	MP3C	X	-4.224	3.67
53	MP3C	Z	-7.317	3.67
54	MP3C	Mx	-.004	3.67
55	MP4A	X	-7.071	.91
56	MP4A	Z	-12.246	.91
57	MP4A	Mx	.004	.91
58	MP4A	X	-7.071	4.42
59	MP4A	Z	-12.246	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
60	MP4A	Mx	.004	4.42
61	MP4B	X	-8.516	.92
62	MP4B	Z	-14.75	.92
63	MP4B	Mx	.004	.92
64	MP4B	X	-8.516	4.42
65	MP4B	Z	-14.75	4.42
66	MP4B	Mx	.004	4.42
67	MP5C	X	-5.489	.92
68	MP5C	Z	-9.507	.92
69	MP5C	Mx	-.005	.92
70	MP5C	X	-5.489	4.42
71	MP5C	Z	-9.507	4.42
72	MP5C	Mx	-.005	4.42
73	OVP	X	-16.519	1
74	OVP	Z	-28.611	1
75	OVP	Mx	0	1
76	MP1A	X	-7.422	3
77	MP1A	Z	-12.855	3
78	MP1A	Mx	-.004	3
79	MP1B	X	-7.422	3
80	MP1B	Z	-12.855	3
81	MP1B	Mx	-.004	3
82	MP2C	X	-5.66	2.5
83	MP2C	Z	-9.803	2.5
84	MP2C	Mx	.006	2.5
85	MP2A	X	-7.189	3
86	MP2A	Z	-12.452	3
87	MP2A	Mx	-.004	3
88	MP2B	X	-7.189	3
89	MP2B	Z	-12.452	3
90	MP2B	Mx	-.004	3
91	MP3C	X	-4.758	3
92	MP3C	Z	-8.241	3
93	MP3C	Mx	.005	3
94	MP2C	X	-1.742	4.25
95	MP2C	Z	-3.018	4.25
96	MP2C	Mx	.002	4.25
97	LIGHT	X	-1.53	0
98	LIGHT	Z	-2.65	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	.92
2	MP1A	Z	-6.125	.92
3	MP1A	Mx	-.005	.92
4	MP1A	X	0	4.42
5	MP1A	Z	-6.125	4.42
6	MP1A	Mx	-.005	4.42
7	MP1B	X	0	.92
8	MP1B	Z	-4.969	.92
9	MP1B	Mx	.006	.92
10	MP1B	X	0	4.42
11	MP1B	Z	-4.969	4.42
12	MP1B	Mx	.006	4.42
13	MP1A	X	0	.92
14	MP1A	Z	-6.125	.92
15	MP1A	Mx	.005	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP1A	X	0	4.42
17	MP1A	Z	-6.125	4.42
18	MP1A	Mx	.005	4.42
19	MP1B	X	0	.92
20	MP1B	Z	-4.969	.92
21	MP1B	Mx	.002	.92
22	MP1B	X	0	4.42
23	MP1B	Z	-4.969	4.42
24	MP1B	Mx	.002	4.42
25	MP2C	X	0	.92
26	MP2C	Z	-4.764	.92
27	MP2C	Mx	-.003	.92
28	MP2C	X	0	4.42
29	MP2C	Z	-4.764	4.42
30	MP2C	Mx	-.003	4.42
31	MP2C	X	0	.92
32	MP2C	Z	-4.764	.92
33	MP2C	Mx	-.005	.92
34	MP2C	X	0	4.42
35	MP2C	Z	-4.764	4.42
36	MP2C	Mx	-.005	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	-5.076	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	-5.076	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	-2.58	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	-2.58	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	-2.137	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	-2.137	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	0	.91
56	MP4A	Z	-4.61	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	-4.61	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	-3.898	.92
63	MP4B	Mx	.002	.92
64	MP4B	X	0	4.42
65	MP4B	Z	-3.898	4.42
66	MP4B	Mx	.002	4.42
67	MP5C	X	0	.92
68	MP5C	Z	-3.505	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	0	4.42
71	MP5C	Z	-3.505	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	0	1
74	OVP	Z	-7.717	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
75	OVP	Mx	0	1
76	MP1A	X	0	3
77	MP1A	Z	-4.014	3
78	MP1A	Mx	0	3
79	MP1B	X	0	3
80	MP1B	Z	-3.024	3
81	MP1B	Mx	-.001	3
82	MP2C	X	0	2.5
83	MP2C	Z	-2.848	2.5
84	MP2C	Mx	.001	2.5
85	MP2A	X	0	3
86	MP2A	Z	-4.014	3
87	MP2A	Mx	0	3
88	MP2B	X	0	3
89	MP2B	Z	-2.654	3
90	MP2B	Mx	-.001	3
91	MP3C	X	0	3
92	MP3C	Z	-2.413	3
93	MP3C	Mx	.001	3
94	MP2C	X	0	4.25
95	MP2C	Z	-.957	4.25
96	MP2C	Mx	.00045	4.25
97	LIGHT	X	0	0
98	LIGHT	Z	-.561	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	2.87	.92
2	MP1A	Z	-4.971	.92
3	MP1A	Mx	-.007	.92
4	MP1A	X	2.87	4.42
5	MP1A	Z	-4.971	4.42
6	MP1A	Mx	-.007	4.42
7	MP1B	X	2.292	.92
8	MP1B	Z	-3.97	.92
9	MP1B	Mx	.004	.92
10	MP1B	X	2.292	4.42
11	MP1B	Z	-3.97	4.42
12	MP1B	Mx	.004	4.42
13	MP1A	X	2.87	.92
14	MP1A	Z	-4.971	.92
15	MP1A	Mx	.002	.92
16	MP1A	X	2.87	4.42
17	MP1A	Z	-4.971	4.42
18	MP1A	Mx	.002	4.42
19	MP1B	X	2.292	.92
20	MP1B	Z	-3.97	.92
21	MP1B	Mx	.004	.92
22	MP1B	X	2.292	4.42
23	MP1B	Z	-3.97	4.42
24	MP1B	Mx	.004	4.42
25	MP2C	X	2.744	.92
26	MP2C	Z	-4.753	.92
27	MP2C	Mx	.00027	.92
28	MP2C	X	2.744	4.42
29	MP2C	Z	-4.753	4.42
30	MP2C	Mx	.00027	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
31	MP2C	X	2.744	.92
32	MP2C	Z	-4.753	.92
33	MP2C	Mx	-.007	.92
34	MP2C	X	2.744	4.42
35	MP2C	Z	-4.753	4.42
36	MP2C	Mx	-.007	4.42
37	MP2A	X	2.122	1.67
38	MP2A	Z	-3.675	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.122	3.67
41	MP2A	Z	-3.675	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	.874	1.67
44	MP2B	Z	-1.514	1.67
45	MP2B	Mx	.000874	1.67
46	MP2B	X	.874	3.67
47	MP2B	Z	-1.514	3.67
48	MP2B	Mx	.000874	3.67
49	MP3C	X	1.85	1.67
50	MP3C	Z	-3.205	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	1.85	3.67
53	MP3C	Z	-3.205	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	2.181	.91
56	MP4A	Z	-3.777	.91
57	MP4A	Mx	-.001	.91
58	MP4A	X	2.181	4.42
59	MP4A	Z	-3.777	4.42
60	MP4A	Mx	-.001	4.42
61	MP4B	X	1.58	.92
62	MP4B	Z	-2.736	.92
63	MP4B	Mx	.002	.92
64	MP4B	X	1.58	4.42
65	MP4B	Z	-2.736	4.42
66	MP4B	Mx	.002	4.42
67	MP5C	X	2.446	.92
68	MP5C	Z	-4.237	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	2.446	4.42
71	MP5C	Z	-4.237	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	3.367	1
74	OVP	Z	-5.831	1
75	OVP	Mx	0	1
76	MP1A	X	1.842	3
77	MP1A	Z	-3.19	3
78	MP1A	Mx	.000921	3
79	MP1B	X	1.347	3
80	MP1B	Z	-2.333	3
81	MP1B	Mx	-.001	3
82	MP2C	X	1.734	2.5
83	MP2C	Z	-3.004	2.5
84	MP2C	Mx	.001	2.5
85	MP2A	X	1.78	3
86	MP2A	Z	-3.084	3
87	MP2A	Mx	.00089	3
88	MP2B	X	1.101	3
89	MP2B	Z	-1.906	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
90	MP2B	Mx	-.001	3
91	MP3C	X	1.633	3
92	MP3C	Z	-2.828	3
93	MP3C	Mx	.001	3
94	MP2C	X	.885	4.25
95	MP2C	Z	-1.533	4.25
96	MP2C	Mx	.000569	4.25
97	LIGHT	X	.324	0
98	LIGHT	Z	-.561	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	4.303	.92
2	MP1A	Z	-2.485	.92
3	MP1A	Mx	-.006	.92
4	MP1A	X	4.303	4.42
5	MP1A	Z	-2.485	4.42
6	MP1A	Mx	-.006	4.42
7	MP1B	X	4.303	.92
8	MP1B	Z	-2.485	.92
9	MP1B	Mx	.002	.92
10	MP1B	X	4.303	4.42
11	MP1B	Z	-2.485	4.42
12	MP1B	Mx	.002	4.42
13	MP1A	X	4.303	.92
14	MP1A	Z	-2.485	.92
15	MP1A	Mx	-.002	.92
16	MP1A	X	4.303	4.42
17	MP1A	Z	-2.485	4.42
18	MP1A	Mx	-.002	4.42
19	MP1B	X	4.303	.92
20	MP1B	Z	-2.485	.92
21	MP1B	Mx	.006	.92
22	MP1B	X	4.303	4.42
23	MP1B	Z	-2.485	4.42
24	MP1B	Mx	.006	4.42
25	MP2C	X	5.264	.92
26	MP2C	Z	-3.039	.92
27	MP2C	Mx	.004	.92
28	MP2C	X	5.264	4.42
29	MP2C	Z	-3.039	4.42
30	MP2C	Mx	.004	4.42
31	MP2C	X	5.264	.92
32	MP2C	Z	-3.039	.92
33	MP2C	Mx	-.006	.92
34	MP2C	X	5.264	4.42
35	MP2C	Z	-3.039	4.42
36	MP2C	Mx	-.006	4.42
37	MP2A	X	2.234	1.67
38	MP2A	Z	-1.29	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.234	3.67
41	MP2A	Z	-1.29	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	2.234	1.67
44	MP2B	Z	-1.29	1.67
45	MP2B	Mx	.001	1.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP2B	X	2.234	3.67
47	MP2B	Z	-1.29	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	4.309	1.67
50	MP3C	Z	-2.488	1.67
51	MP3C	Mx	-.000432	1.67
52	MP3C	X	4.309	3.67
53	MP3C	Z	-2.488	3.67
54	MP3C	Mx	-.000432	3.67
55	MP4A	X	3.347	.91
56	MP4A	Z	-1.932	.91
57	MP4A	Mx	-.002	.91
58	MP4A	X	3.347	4.42
59	MP4A	Z	-1.932	4.42
60	MP4A	Mx	-.002	4.42
61	MP4B	X	3.376	.92
62	MP4B	Z	-1.949	.92
63	MP4B	Mx	.002	.92
64	MP4B	X	3.376	4.42
65	MP4B	Z	-1.949	4.42
66	MP4B	Mx	.002	4.42
67	MP5C	X	5.216	.92
68	MP5C	Z	-3.011	.92
69	MP5C	Mx	-.000523	.92
70	MP5C	X	5.216	4.42
71	MP5C	Z	-3.011	4.42
72	MP5C	Mx	-.000523	4.42
73	OVP	X	5.405	1
74	OVP	Z	-3.121	1
75	OVP	Mx	0	1
76	MP1A	X	2.618	3
77	MP1A	Z	-1.512	3
78	MP1A	Mx	.001	3
79	MP1B	X	2.618	3
80	MP1B	Z	-1.512	3
81	MP1B	Mx	-.001	3
82	MP2C	X	3.442	2.5
83	MP2C	Z	-1.987	2.5
84	MP2C	Mx	.000345	2.5
85	MP2A	X	2.299	3
86	MP2A	Z	-1.327	3
87	MP2A	Mx	.001	3
88	MP2B	X	2.299	3
89	MP2B	Z	-1.327	3
90	MP2B	Mx	-.001	3
91	MP3C	X	3.429	3
92	MP3C	Z	-1.98	3
93	MP3C	Mx	.000344	3
94	MP2C	X	2.108	4.25
95	MP2C	Z	-1.217	4.25
96	MP2C	Mx	.000211	4.25
97	LIGHT	X	.598	0
98	LIGHT	Z	-.345	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	4.584	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
2	MP1A	Z	0	.92
3	MP1A	Mx	-.004	.92
4	MP1A	X	4.584	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	-.004	4.42
7	MP1B	X	5.74	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	-.002	.92
10	MP1B	X	5.74	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	-.002	4.42
13	MP1A	X	4.584	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	-.004	.92
16	MP1A	X	4.584	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	-.004	4.42
19	MP1B	X	5.74	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	.007	.92
22	MP1B	X	5.74	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	.007	4.42
25	MP2C	X	5.945	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	.007	.92
28	MP2C	X	5.945	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	.007	4.42
31	MP2C	X	5.945	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	-.003	.92
34	MP2C	X	5.945	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	-.003	4.42
37	MP2A	X	1.748	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	-.000874	1.67
40	MP2A	X	1.748	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	-.000874	3.67
43	MP2B	X	4.244	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	4.244	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	4.687	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	.000802	1.67
52	MP3C	X	4.687	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	.000802	3.67
55	MP4A	X	3.616	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	-.002	.91
58	MP4A	X	3.616	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	-.002	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
61	MP4B	X	5.374	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	.001	.92
64	MP4B	X	5.374	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	.001	4.42
67	MP5C	X	5.766	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	.000986	.92
70	MP5C	X	5.766	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	.000986	4.42
73	OVP	X	6.733	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	2.693	3
77	MP1A	Z	0	3
78	MP1A	Mx	.001	3
79	MP1B	X	3.684	3
80	MP1B	Z	0	3
81	MP1B	Mx	-.000921	3
82	MP2C	X	3.86	2.5
83	MP2C	Z	0	2.5
84	MP2C	Mx	-.00066	2.5
85	MP2A	X	2.201	3
86	MP2A	Z	0	3
87	MP2A	Mx	.001	3
88	MP2B	X	3.561	3
89	MP2B	Z	0	3
90	MP2B	Mx	-.00089	3
91	MP3C	X	3.802	3
92	MP3C	Z	0	3
93	MP3C	Mx	-.00065	3
94	MP2C	X	2.284	4.25
95	MP2C	Z	0	4.25
96	MP2C	Mx	-.000391	4.25
97	LIGHT	X	.647	0
98	LIGHT	Z	0	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	4.303	.92
2	MP1A	Z	2.485	.92
3	MP1A	Mx	-.002	.92
4	MP1A	X	4.303	4.42
5	MP1A	Z	2.485	4.42
6	MP1A	Mx	-.002	4.42
7	MP1B	X	5.304	.92
8	MP1B	Z	3.062	.92
9	MP1B	Mx	-.005	.92
10	MP1B	X	5.304	4.42
11	MP1B	Z	3.062	4.42
12	MP1B	Mx	-.005	4.42
13	MP1A	X	4.303	.92
14	MP1A	Z	2.485	.92
15	MP1A	Mx	-.006	.92
16	MP1A	X	4.303	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
17	MP1A	Z	2.485	4.42
18	MP1A	Mx	-.006	4.42
19	MP1B	X	5.304	.92
20	MP1B	Z	3.062	.92
21	MP1B	Mx	.005	.92
22	MP1B	X	5.304	4.42
23	MP1B	Z	3.062	4.42
24	MP1B	Mx	.005	4.42
25	MP2C	X	4.521	.92
26	MP2C	Z	2.61	.92
27	MP2C	Mx	.006	.92
28	MP2C	X	4.521	4.42
29	MP2C	Z	2.61	4.42
30	MP2C	Mx	.006	4.42
31	MP2C	X	4.521	.92
32	MP2C	Z	2.61	.92
33	MP2C	Mx	.000869	.92
34	MP2C	X	4.521	4.42
35	MP2C	Z	2.61	4.42
36	MP2C	Mx	.000869	4.42
37	MP2A	X	2.234	1.67
38	MP2A	Z	1.29	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.234	3.67
41	MP2A	Z	1.29	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	4.396	1.67
44	MP2B	Z	2.538	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	4.396	3.67
47	MP2B	Z	2.538	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	2.705	1.67
50	MP3C	Z	1.562	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	2.705	3.67
53	MP3C	Z	1.562	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	3.347	.91
56	MP4A	Z	1.932	.91
57	MP4A	Mx	-.002	.91
58	MP4A	X	3.347	4.42
59	MP4A	Z	1.932	4.42
60	MP4A	Mx	-.002	4.42
61	MP4B	X	5.293	.92
62	MP4B	Z	3.056	.92
63	MP4B	Mx	0	.92
64	MP4B	X	5.293	4.42
65	MP4B	Z	3.056	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	3.793	.92
68	MP5C	Z	2.19	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	3.793	4.42
71	MP5C	Z	2.19	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	6.684	1
74	OVP	Z	3.859	1
75	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
76	MP1A	X	2.618	3
77	MP1A	Z	1.512	3
78	MP1A	Mx	.001	3
79	MP1B	X	3.476	3
80	MP1B	Z	2.007	3
81	MP1B	Mx	0	3
82	MP2C	X	2.805	2.5
83	MP2C	Z	1.62	2.5
84	MP2C	Mx	-.001	2.5
85	MP2A	X	2.299	3
86	MP2A	Z	1.327	3
87	MP2A	Mx	.001	3
88	MP2B	X	3.476	3
89	MP2B	Z	2.007	3
90	MP2B	Mx	0	3
91	MP3C	X	2.555	3
92	MP3C	Z	1.475	3
93	MP3C	Mx	-.001	3
94	MP2C	X	1.273	4.25
95	MP2C	Z	.735	4.25
96	MP2C	Mx	-.000563	4.25
97	LIGHT	X	.486	0
98	LIGHT	Z	.281	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	2.87	.92
2	MP1A	Z	4.971	.92
3	MP1A	Mx	.002	.92
4	MP1A	X	2.87	4.42
5	MP1A	Z	4.971	4.42
6	MP1A	Mx	.002	4.42
7	MP1B	X	2.87	.92
8	MP1B	Z	4.971	.92
9	MP1B	Mx	-.007	.92
10	MP1B	X	2.87	4.42
11	MP1B	Z	4.971	4.42
12	MP1B	Mx	-.007	4.42
13	MP1A	X	2.87	.92
14	MP1A	Z	4.971	.92
15	MP1A	Mx	-.007	.92
16	MP1A	X	2.87	4.42
17	MP1A	Z	4.971	4.42
18	MP1A	Mx	-.007	4.42
19	MP1B	X	2.87	.92
20	MP1B	Z	4.971	.92
21	MP1B	Mx	.002	.92
22	MP1B	X	2.87	4.42
23	MP1B	Z	4.971	4.42
24	MP1B	Mx	.002	4.42
25	MP2C	X	2.315	.92
26	MP2C	Z	4.01	.92
27	MP2C	Mx	.005	.92
28	MP2C	X	2.315	4.42
29	MP2C	Z	4.01	4.42
30	MP2C	Mx	.005	4.42
31	MP2C	X	2.315	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
32	MP2C	Z	4.01	.92
33	MP2C	Mx	.004	.92
34	MP2C	X	2.315	4.42
35	MP2C	Z	4.01	4.42
36	MP2C	Mx	.004	4.42
37	MP2A	X	2.122	1.67
38	MP2A	Z	3.675	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.122	3.67
41	MP2A	Z	3.675	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	2.122	1.67
44	MP2B	Z	3.675	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	2.122	3.67
47	MP2B	Z	3.675	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	.924	1.67
50	MP3C	Z	1.601	1.67
51	MP3C	Mx	.00091	1.67
52	MP3C	X	.924	3.67
53	MP3C	Z	1.601	3.67
54	MP3C	Mx	.00091	3.67
55	MP4A	X	2.181	.91
56	MP4A	Z	3.777	.91
57	MP4A	Mx	-.001	.91
58	MP4A	X	2.181	4.42
59	MP4A	Z	3.777	4.42
60	MP4A	Mx	-.001	4.42
61	MP4B	X	2.687	.92
62	MP4B	Z	4.654	.92
63	MP4B	Mx	-.001	.92
64	MP4B	X	2.687	4.42
65	MP4B	Z	4.654	4.42
66	MP4B	Mx	-.001	4.42
67	MP5C	X	1.624	.92
68	MP5C	Z	2.814	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	1.624	4.42
71	MP5C	Z	2.814	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	4.105	1
74	OVP	Z	7.11	1
75	OVP	Mx	0	1
76	MP1A	X	1.842	3
77	MP1A	Z	3.19	3
78	MP1A	Mx	.000921	3
79	MP1B	X	1.842	3
80	MP1B	Z	3.19	3
81	MP1B	Mx	.000921	3
82	MP2C	X	1.367	2.5
83	MP2C	Z	2.367	2.5
84	MP2C	Mx	-.001	2.5
85	MP2A	X	1.78	3
86	MP2A	Z	3.084	3
87	MP2A	Mx	.00089	3
88	MP2B	X	1.78	3
89	MP2B	Z	3.084	3
90	MP2B	Mx	.00089	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
91	MP3C	X	1.128	3
92	MP3C	Z	1.954	3
93	MP3C	Mx	-.001	3
94	MP2C	X	.403	4.25
95	MP2C	Z	.698	4.25
96	MP2C	Mx	-.000397	4.25
97	LIGHT	X	.259	0
98	LIGHT	Z	.449	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	.92
2	MP1A	Z	6.125	.92
3	MP1A	Mx	.005	.92
4	MP1A	X	0	4.42
5	MP1A	Z	6.125	4.42
6	MP1A	Mx	.005	4.42
7	MP1B	X	0	.92
8	MP1B	Z	4.969	.92
9	MP1B	Mx	-.006	.92
10	MP1B	X	0	4.42
11	MP1B	Z	4.969	4.42
12	MP1B	Mx	-.006	4.42
13	MP1A	X	0	.92
14	MP1A	Z	6.125	.92
15	MP1A	Mx	-.005	.92
16	MP1A	X	0	4.42
17	MP1A	Z	6.125	4.42
18	MP1A	Mx	-.005	4.42
19	MP1B	X	0	.92
20	MP1B	Z	4.969	.92
21	MP1B	Mx	-.002	.92
22	MP1B	X	0	4.42
23	MP1B	Z	4.969	4.42
24	MP1B	Mx	-.002	4.42
25	MP2C	X	0	.92
26	MP2C	Z	4.764	.92
27	MP2C	Mx	.003	.92
28	MP2C	X	0	4.42
29	MP2C	Z	4.764	4.42
30	MP2C	Mx	.003	4.42
31	MP2C	X	0	.92
32	MP2C	Z	4.764	.92
33	MP2C	Mx	.005	.92
34	MP2C	X	0	4.42
35	MP2C	Z	4.764	4.42
36	MP2C	Mx	.005	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	5.076	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	5.076	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	2.58	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	0	3.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
47	MP2B	Z	2.58	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	2.137	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	2.137	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	0	.91
56	MP4A	Z	4.61	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	4.61	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	3.898	.92
63	MP4B	Mx	-.002	.92
64	MP4B	X	0	4.42
65	MP4B	Z	3.898	4.42
66	MP4B	Mx	-.002	4.42
67	MP5C	X	0	.92
68	MP5C	Z	3.505	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	0	4.42
71	MP5C	Z	3.505	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	0	1
74	OVP	Z	7.717	1
75	OVP	Mx	0	1
76	MP1A	X	0	3
77	MP1A	Z	4.014	3
78	MP1A	Mx	0	3
79	MP1B	X	0	3
80	MP1B	Z	3.024	3
81	MP1B	Mx	.001	3
82	MP2C	X	0	2.5
83	MP2C	Z	2.848	2.5
84	MP2C	Mx	-.001	2.5
85	MP2A	X	0	3
86	MP2A	Z	4.014	3
87	MP2A	Mx	0	3
88	MP2B	X	0	3
89	MP2B	Z	2.654	3
90	MP2B	Mx	.001	3
91	MP3C	X	0	3
92	MP3C	Z	2.413	3
93	MP3C	Mx	-.001	3
94	MP2C	X	0	4.25
95	MP2C	Z	.957	4.25
96	MP2C	Mx	-.00045	4.25
97	LIGHT	X	0	0
98	LIGHT	Z	.561	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-2.87	.92
2	MP1A	Z	4.971	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
3	MP1A	Mx	.007	.92
4	MP1A	X	-2.87	4.42
5	MP1A	Z	4.971	4.42
6	MP1A	Mx	.007	4.42
7	MP1B	X	-2.292	.92
8	MP1B	Z	3.97	.92
9	MP1B	Mx	-.004	.92
10	MP1B	X	-2.292	4.42
11	MP1B	Z	3.97	4.42
12	MP1B	Mx	-.004	4.42
13	MP1A	X	-2.87	.92
14	MP1A	Z	4.971	.92
15	MP1A	Mx	-.002	.92
16	MP1A	X	-2.87	4.42
17	MP1A	Z	4.971	4.42
18	MP1A	Mx	-.002	4.42
19	MP1B	X	-2.292	.92
20	MP1B	Z	3.97	.92
21	MP1B	Mx	-.004	.92
22	MP1B	X	-2.292	4.42
23	MP1B	Z	3.97	4.42
24	MP1B	Mx	-.004	4.42
25	MP2C	X	-2.744	.92
26	MP2C	Z	4.753	.92
27	MP2C	Mx	-.00027	.92
28	MP2C	X	-2.744	4.42
29	MP2C	Z	4.753	4.42
30	MP2C	Mx	-.00027	4.42
31	MP2C	X	-2.744	.92
32	MP2C	Z	4.753	.92
33	MP2C	Mx	.007	.92
34	MP2C	X	-2.744	4.42
35	MP2C	Z	4.753	4.42
36	MP2C	Mx	.007	4.42
37	MP2A	X	-2.122	1.67
38	MP2A	Z	3.675	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.122	3.67
41	MP2A	Z	3.675	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-.874	1.67
44	MP2B	Z	1.514	1.67
45	MP2B	Mx	-.000874	1.67
46	MP2B	X	-.874	3.67
47	MP2B	Z	1.514	3.67
48	MP2B	Mx	-.000874	3.67
49	MP3C	X	-1.85	1.67
50	MP3C	Z	3.205	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	-1.85	3.67
53	MP3C	Z	3.205	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	-2.181	.91
56	MP4A	Z	3.777	.91
57	MP4A	Mx	.001	.91
58	MP4A	X	-2.181	4.42
59	MP4A	Z	3.777	4.42
60	MP4A	Mx	.001	4.42
61	MP4B	X	-1.58	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
62	MP4B	Z	2.736	.92
63	MP4B	Mx	-.002	.92
64	MP4B	X	-1.58	4.42
65	MP4B	Z	2.736	4.42
66	MP4B	Mx	-.002	4.42
67	MP5C	X	-2.446	.92
68	MP5C	Z	4.237	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	-2.446	4.42
71	MP5C	Z	4.237	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	-3.367	1
74	OVP	Z	5.831	1
75	OVP	Mx	0	1
76	MP1A	X	-1.842	3
77	MP1A	Z	3.19	3
78	MP1A	Mx	-.000921	3
79	MP1B	X	-1.347	3
80	MP1B	Z	2.333	3
81	MP1B	Mx	.001	3
82	MP2C	X	-1.734	2.5
83	MP2C	Z	3.004	2.5
84	MP2C	Mx	-.001	2.5
85	MP2A	X	-1.78	3
86	MP2A	Z	3.084	3
87	MP2A	Mx	-.00089	3
88	MP2B	X	-1.101	3
89	MP2B	Z	1.906	3
90	MP2B	Mx	.001	3
91	MP3C	X	-1.633	3
92	MP3C	Z	2.828	3
93	MP3C	Mx	-.001	3
94	MP2C	X	-.885	4.25
95	MP2C	Z	1.533	4.25
96	MP2C	Mx	-.000569	4.25
97	LIGHT	X	-.324	0
98	LIGHT	Z	.561	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-4.303	.92
2	MP1A	Z	2.485	.92
3	MP1A	Mx	.006	.92
4	MP1A	X	-4.303	4.42
5	MP1A	Z	2.485	4.42
6	MP1A	Mx	.006	4.42
7	MP1B	X	-4.303	.92
8	MP1B	Z	2.485	.92
9	MP1B	Mx	-.002	.92
10	MP1B	X	-4.303	4.42
11	MP1B	Z	2.485	4.42
12	MP1B	Mx	-.002	4.42
13	MP1A	X	-4.303	.92
14	MP1A	Z	2.485	.92
15	MP1A	Mx	.002	.92
16	MP1A	X	-4.303	4.42
17	MP1A	Z	2.485	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP1A	Mx	.002	4.42
19	MP1B	X	-4.303	.92
20	MP1B	Z	2.485	.92
21	MP1B	Mx	-.006	.92
22	MP1B	X	-4.303	4.42
23	MP1B	Z	2.485	4.42
24	MP1B	Mx	-.006	4.42
25	MP2C	X	-5.264	.92
26	MP2C	Z	3.039	.92
27	MP2C	Mx	-.004	.92
28	MP2C	X	-5.264	4.42
29	MP2C	Z	3.039	4.42
30	MP2C	Mx	-.004	4.42
31	MP2C	X	-5.264	.92
32	MP2C	Z	3.039	.92
33	MP2C	Mx	.006	.92
34	MP2C	X	-5.264	4.42
35	MP2C	Z	3.039	4.42
36	MP2C	Mx	.006	4.42
37	MP2A	X	-2.234	1.67
38	MP2A	Z	1.29	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.234	3.67
41	MP2A	Z	1.29	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-2.234	1.67
44	MP2B	Z	1.29	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	-2.234	3.67
47	MP2B	Z	1.29	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	-4.309	1.67
50	MP3C	Z	2.488	1.67
51	MP3C	Mx	.000432	1.67
52	MP3C	X	-4.309	3.67
53	MP3C	Z	2.488	3.67
54	MP3C	Mx	.000432	3.67
55	MP4A	X	-3.347	.91
56	MP4A	Z	1.932	.91
57	MP4A	Mx	.002	.91
58	MP4A	X	-3.347	4.42
59	MP4A	Z	1.932	4.42
60	MP4A	Mx	.002	4.42
61	MP4B	X	-3.376	.92
62	MP4B	Z	1.949	.92
63	MP4B	Mx	-.002	.92
64	MP4B	X	-3.376	4.42
65	MP4B	Z	1.949	4.42
66	MP4B	Mx	-.002	4.42
67	MP5C	X	-5.216	.92
68	MP5C	Z	3.011	.92
69	MP5C	Mx	.000523	.92
70	MP5C	X	-5.216	4.42
71	MP5C	Z	3.011	4.42
72	MP5C	Mx	.000523	4.42
73	OVP	X	-5.405	1
74	OVP	Z	3.121	1
75	OVP	Mx	0	1
76	MP1A	X	-2.618	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
77	MP1A	Z	1.512	3
78	MP1A	Mx	-.001	3
79	MP1B	X	-2.618	3
80	MP1B	Z	1.512	3
81	MP1B	Mx	.001	3
82	MP2C	X	-3.442	2.5
83	MP2C	Z	1.987	2.5
84	MP2C	Mx	-.000345	2.5
85	MP2A	X	-2.299	3
86	MP2A	Z	1.327	3
87	MP2A	Mx	-.001	3
88	MP2B	X	-2.299	3
89	MP2B	Z	1.327	3
90	MP2B	Mx	.001	3
91	MP3C	X	-3.429	3
92	MP3C	Z	1.98	3
93	MP3C	Mx	-.000344	3
94	MP2C	X	-2.108	4.25
95	MP2C	Z	1.217	4.25
96	MP2C	Mx	-.000211	4.25
97	LIGHT	X	-.598	0
98	LIGHT	Z	.345	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-4.584	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	.004	.92
4	MP1A	X	-4.584	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	.004	4.42
7	MP1B	X	-5.74	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	.002	.92
10	MP1B	X	-5.74	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	.002	4.42
13	MP1A	X	-4.584	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	.004	.92
16	MP1A	X	-4.584	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	.004	4.42
19	MP1B	X	-5.74	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	-.007	.92
22	MP1B	X	-5.74	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	-.007	4.42
25	MP2C	X	-5.945	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	-.007	.92
28	MP2C	X	-5.945	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	-.007	4.42
31	MP2C	X	-5.945	.92
32	MP2C	Z	0	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2C	Mx	.003	.92
34	MP2C	X	-5.945	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	.003	4.42
37	MP2A	X	-1.748	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	.000874	1.67
40	MP2A	X	-1.748	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	.000874	3.67
43	MP2B	X	-4.244	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	-4.244	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	-4.687	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	-.000802	1.67
52	MP3C	X	-4.687	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	-.000802	3.67
55	MP4A	X	-3.616	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	.002	.91
58	MP4A	X	-3.616	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	.002	4.42
61	MP4B	X	-5.374	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	-.001	.92
64	MP4B	X	-5.374	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	-.001	4.42
67	MP5C	X	-5.766	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	-.000986	.92
70	MP5C	X	-5.766	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	-.000986	4.42
73	OVP	X	-6.733	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-2.693	3
77	MP1A	Z	0	3
78	MP1A	Mx	-.001	3
79	MP1B	X	-3.684	3
80	MP1B	Z	0	3
81	MP1B	Mx	.000921	3
82	MP2C	X	-3.86	2.5
83	MP2C	Z	0	2.5
84	MP2C	Mx	.00066	2.5
85	MP2A	X	-2.201	3
86	MP2A	Z	0	3
87	MP2A	Mx	-.001	3
88	MP2B	X	-3.561	3
89	MP2B	Z	0	3
90	MP2B	Mx	.00089	3
91	MP3C	X	-3.802	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
92	MP3C	Z	0	3
93	MP3C	Mx	.00065	3
94	MP2C	X	-2.284	4.25
95	MP2C	Z	0	4.25
96	MP2C	Mx	.000391	4.25
97	LIGHT	X	-.647	0
98	LIGHT	Z	0	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-4.303	.92
2	MP1A	Z	-2.485	.92
3	MP1A	Mx	.002	.92
4	MP1A	X	-4.303	4.42
5	MP1A	Z	-2.485	4.42
6	MP1A	Mx	.002	4.42
7	MP1B	X	-5.304	.92
8	MP1B	Z	-3.062	.92
9	MP1B	Mx	.005	.92
10	MP1B	X	-5.304	4.42
11	MP1B	Z	-3.062	4.42
12	MP1B	Mx	.005	4.42
13	MP1A	X	-4.303	.92
14	MP1A	Z	-2.485	.92
15	MP1A	Mx	.006	.92
16	MP1A	X	-4.303	4.42
17	MP1A	Z	-2.485	4.42
18	MP1A	Mx	.006	4.42
19	MP1B	X	-5.304	.92
20	MP1B	Z	-3.062	.92
21	MP1B	Mx	-.005	.92
22	MP1B	X	-5.304	4.42
23	MP1B	Z	-3.062	4.42
24	MP1B	Mx	-.005	4.42
25	MP2C	X	-4.521	.92
26	MP2C	Z	-2.61	.92
27	MP2C	Mx	-.006	.92
28	MP2C	X	-4.521	4.42
29	MP2C	Z	-2.61	4.42
30	MP2C	Mx	-.006	4.42
31	MP2C	X	-4.521	.92
32	MP2C	Z	-2.61	.92
33	MP2C	Mx	-.000869	.92
34	MP2C	X	-4.521	4.42
35	MP2C	Z	-2.61	4.42
36	MP2C	Mx	-.000869	4.42
37	MP2A	X	-2.234	1.67
38	MP2A	Z	-1.29	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.234	3.67
41	MP2A	Z	-1.29	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-4.396	1.67
44	MP2B	Z	-2.538	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	-4.396	3.67
47	MP2B	Z	-2.538	3.67

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
48	MP2B	Mx	0	3.67
49	MP3C	X	-2.705	1.67
50	MP3C	Z	-1.562	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	-2.705	3.67
53	MP3C	Z	-1.562	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	-3.347	.91
56	MP4A	Z	-1.932	.91
57	MP4A	Mx	.002	.91
58	MP4A	X	-3.347	4.42
59	MP4A	Z	-1.932	4.42
60	MP4A	Mx	.002	4.42
61	MP4B	X	-5.293	.92
62	MP4B	Z	-3.056	.92
63	MP4B	Mx	0	.92
64	MP4B	X	-5.293	4.42
65	MP4B	Z	-3.056	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	-3.793	.92
68	MP5C	Z	-2.19	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	-3.793	4.42
71	MP5C	Z	-2.19	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	-6.684	1
74	OVP	Z	-3.859	1
75	OVP	Mx	0	1
76	MP1A	X	-2.618	3
77	MP1A	Z	-1.512	3
78	MP1A	Mx	-.001	3
79	MP1B	X	-3.476	3
80	MP1B	Z	-2.007	3
81	MP1B	Mx	0	3
82	MP2C	X	-2.805	2.5
83	MP2C	Z	-1.62	2.5
84	MP2C	Mx	.001	2.5
85	MP2A	X	-2.299	3
86	MP2A	Z	-1.327	3
87	MP2A	Mx	-.001	3
88	MP2B	X	-3.476	3
89	MP2B	Z	-2.007	3
90	MP2B	Mx	0	3
91	MP3C	X	-2.555	3
92	MP3C	Z	-1.475	3
93	MP3C	Mx	.001	3
94	MP2C	X	-1.273	4.25
95	MP2C	Z	-.735	4.25
96	MP2C	Mx	.000563	4.25
97	LIGHT	X	-.486	0
98	LIGHT	Z	-.281	0
99	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-2.87	.92
2	MP1A	Z	-4.971	.92
3	MP1A	Mx	-.002	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP1A	X	-2.87	4.42
5	MP1A	Z	-4.971	4.42
6	MP1A	Mx	-.002	4.42
7	MP1B	X	-2.87	.92
8	MP1B	Z	-4.971	.92
9	MP1B	Mx	.007	.92
10	MP1B	X	-2.87	4.42
11	MP1B	Z	-4.971	4.42
12	MP1B	Mx	.007	4.42
13	MP1A	X	-2.87	.92
14	MP1A	Z	-4.971	.92
15	MP1A	Mx	.007	.92
16	MP1A	X	-2.87	4.42
17	MP1A	Z	-4.971	4.42
18	MP1A	Mx	.007	4.42
19	MP1B	X	-2.87	.92
20	MP1B	Z	-4.971	.92
21	MP1B	Mx	-.002	.92
22	MP1B	X	-2.87	4.42
23	MP1B	Z	-4.971	4.42
24	MP1B	Mx	-.002	4.42
25	MP2C	X	-2.315	.92
26	MP2C	Z	-4.01	.92
27	MP2C	Mx	-.005	.92
28	MP2C	X	-2.315	4.42
29	MP2C	Z	-4.01	4.42
30	MP2C	Mx	-.005	4.42
31	MP2C	X	-2.315	.92
32	MP2C	Z	-4.01	.92
33	MP2C	Mx	-.004	.92
34	MP2C	X	-2.315	4.42
35	MP2C	Z	-4.01	4.42
36	MP2C	Mx	-.004	4.42
37	MP2A	X	-2.122	1.67
38	MP2A	Z	-3.675	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.122	3.67
41	MP2A	Z	-3.675	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-2.122	1.67
44	MP2B	Z	-3.675	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	-2.122	3.67
47	MP2B	Z	-3.675	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	-.924	1.67
50	MP3C	Z	-1.601	1.67
51	MP3C	Mx	-.00091	1.67
52	MP3C	X	-.924	3.67
53	MP3C	Z	-1.601	3.67
54	MP3C	Mx	-.00091	3.67
55	MP4A	X	-2.181	.91
56	MP4A	Z	-3.777	.91
57	MP4A	Mx	.001	.91
58	MP4A	X	-2.181	4.42
59	MP4A	Z	-3.777	4.42
60	MP4A	Mx	.001	4.42
61	MP4B	X	-2.687	.92
62	MP4B	Z	-4.654	.92

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
63	MP4B	Mx	.001	.92
64	MP4B	X	-2.687	4.42
65	MP4B	Z	-4.654	4.42
66	MP4B	Mx	.001	4.42
67	MP5C	X	-1.624	.92
68	MP5C	Z	-2.814	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	-1.624	4.42
71	MP5C	Z	-2.814	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	-4.105	1
74	OVP	Z	-7.11	1
75	OVP	Mx	0	1
76	MP1A	X	-1.842	3
77	MP1A	Z	-3.19	3
78	MP1A	Mx	-.000921	3
79	MP1B	X	-1.842	3
80	MP1B	Z	-3.19	3
81	MP1B	Mx	-.000921	3
82	MP2C	X	-1.367	2.5
83	MP2C	Z	-2.367	2.5
84	MP2C	Mx	.001	2.5
85	MP2A	X	-1.78	3
86	MP2A	Z	-3.084	3
87	MP2A	Mx	-.00089	3
88	MP2B	X	-1.78	3
89	MP2B	Z	-3.084	3
90	MP2B	Mx	-.00089	3
91	MP3C	X	-1.128	3
92	MP3C	Z	-1.954	3
93	MP3C	Mx	.001	3
94	MP2C	X	-.403	4.25
95	MP2C	Z	-.698	4.25
96	MP2C	Mx	.000397	4.25
97	LIGHT	X	-.259	0
98	LIGHT	Z	-.449	0
99	LIGHT	Mx	0	0

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M7A	Y	-500	%83

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M7A	Y	-500	%47

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M7A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M7A	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-.986	.92
2	MP1A	My	-.000904	.92
3	MP1A	Mz	.000822	.92
4	MP1A	Y	-.986	4.42
5	MP1A	My	-.000904	4.42
6	MP1A	Mz	.000822	4.42
7	MP1B	Y	-.986	.92
8	MP1B	My	-.00026	.92
9	MP1B	Mz	-.001	.92
10	MP1B	Y	-.986	4.42
11	MP1B	My	-.00026	4.42
12	MP1B	Mz	-.001	4.42
13	MP1A	Y	-.986	.92
14	MP1A	My	-.000904	.92
15	MP1A	Mz	-.000822	.92
16	MP1A	Y	-.986	4.42
17	MP1A	My	-.000904	4.42
18	MP1A	Mz	-.000822	4.42
19	MP1B	Y	-.986	.92
20	MP1B	My	.001	.92
21	MP1B	Mz	-.000372	.92
22	MP1B	Y	-.986	4.42
23	MP1B	My	.001	4.42
24	MP1B	Mz	-.000372	4.42
25	MP2C	Y	-.986	.92
26	MP2C	My	.001	.92
27	MP2C	Mz	.000568	.92
28	MP2C	Y	-.986	4.42
29	MP2C	My	.001	4.42
30	MP2C	Mz	.000568	4.42
31	MP2C	Y	-.986	.92
32	MP2C	My	-.000463	.92
33	MP2C	Mz	.001	.92
34	MP2C	Y	-.986	4.42
35	MP2C	My	-.000463	4.42
36	MP2C	Mz	.001	4.42
37	MP2A	Y	-1.867	1.67
38	MP2A	My	-.000934	1.67
39	MP2A	Mz	0	1.67
40	MP2A	Y	-1.867	3.67
41	MP2A	My	-.000934	3.67
42	MP2A	Mz	0	3.67
43	MP2B	Y	-1.867	1.67
44	MP2B	My	.000467	1.67
45	MP2B	Mz	-.000809	1.67
46	MP2B	Y	-1.867	3.67
47	MP2B	My	.000467	3.67
48	MP2B	Mz	-.000809	3.67
49	MP3C	Y	-1.867	1.67
50	MP3C	My	.000319	1.67
51	MP3C	Mz	.000877	1.67
52	MP3C	Y	-1.867	3.67
53	MP3C	My	.000319	3.67
54	MP3C	Mz	.000877	3.67
55	MP4A	Y	-.257	.91
56	MP4A	My	-.000129	.91
57	MP4A	Mz	0	.91
58	MP4A	Y	-.257	4.42
59	MP4A	My	-.000129	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP4A	Mz	0	4.42
61	MP4B	Y	-.212	.92
62	MP4B	My	5.3e-5	.92
63	MP4B	Mz	-9.2e-5	.92
64	MP4B	Y	-.212	4.42
65	MP4B	My	5.3e-5	4.42
66	MP4B	Mz	-9.2e-5	4.42
67	MP5C	Y	-.212	.92
68	MP5C	My	3.6e-5	.92
69	MP5C	Mz	.0001	.92
70	MP5C	Y	-.212	4.42
71	MP5C	My	3.6e-5	4.42
72	MP5C	Mz	.0001	4.42
73	OVP	Y	-1.372	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-3.619	3
77	MP1A	My	.002	3
78	MP1A	Mz	0	3
79	MP1B	Y	-3.619	3
80	MP1B	My	-.000905	3
81	MP1B	Mz	.002	3
82	MP2C	Y	-3.619	2.5
83	MP2C	My	-.000619	2.5
84	MP2C	Mz	-.002	2.5
85	MP2A	Y	-3.014	3
86	MP2A	My	.002	3
87	MP2A	Mz	0	3
88	MP2B	Y	-3.014	3
89	MP2B	My	-.000754	3
90	MP2B	Mz	.001	3
91	MP3C	Y	-3.014	3
92	MP3C	My	-.000516	3
93	MP3C	Mz	-.001	3
94	MP2C	Y	-.755	4.25
95	MP2C	My	-.000129	4.25
96	MP2C	Mz	-.000355	4.25
97	LIGHT	Y	-.129	0
98	LIGHT	My	0	0
99	LIGHT	Mz	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Z	-2.466	.92
2	MP1A	Mx	-.002	.92
3	MP1A	Z	-2.466	4.42
4	MP1A	Mx	-.002	4.42
5	MP1B	Z	-2.466	.92
6	MP1B	Mx	.003	.92
7	MP1B	Z	-2.466	4.42
8	MP1B	Mx	.003	4.42
9	MP1A	Z	-2.466	.92
10	MP1A	Mx	.002	.92
11	MP1A	Z	-2.466	4.42
12	MP1A	Mx	.002	4.42
13	MP1B	Z	-2.466	.92
14	MP1B	Mx	.00093	.92
15	MP1B	Z	-2.466	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP1B	Mx	.00093	4.42
17	MP2C	Z	-2.466	.92
18	MP2C	Mx	-.001	.92
19	MP2C	Z	-2.466	4.42
20	MP2C	Mx	-.001	4.42
21	MP2C	Z	-2.466	.92
22	MP2C	Mx	-.003	.92
23	MP2C	Z	-2.466	4.42
24	MP2C	Mx	-.003	4.42
25	MP2A	Z	-4.669	1.67
26	MP2A	Mx	0	1.67
27	MP2A	Z	-4.669	3.67
28	MP2A	Mx	0	3.67
29	MP2B	Z	-4.669	1.67
30	MP2B	Mx	.002	1.67
31	MP2B	Z	-4.669	3.67
32	MP2B	Mx	.002	3.67
33	MP3C	Z	-4.669	1.67
34	MP3C	Mx	-.002	1.67
35	MP3C	Z	-4.669	3.67
36	MP3C	Mx	-.002	3.67
37	MP4A	Z	-.643	.91
38	MP4A	Mx	0	.91
39	MP4A	Z	-.643	4.42
40	MP4A	Mx	0	4.42
41	MP4B	Z	-.531	.92
42	MP4B	Mx	.00023	.92
43	MP4B	Z	-.531	4.42
44	MP4B	Mx	.00023	4.42
45	MP5C	Z	-.531	.92
46	MP5C	Mx	-.000249	.92
47	MP5C	Z	-.531	4.42
48	MP5C	Mx	-.000249	4.42
49	OVP	Z	-3.43	1
50	OVP	Mx	0	1
51	MP1A	Z	-9.048	3
52	MP1A	Mx	0	3
53	MP1B	Z	-9.048	3
54	MP1B	Mx	-.004	3
55	MP2C	Z	-9.048	2.5
56	MP2C	Mx	.004	2.5
57	MP2A	Z	-7.536	3
58	MP2A	Mx	0	3
59	MP2B	Z	-7.536	3
60	MP2B	Mx	-.003	3
61	MP3C	Z	-7.536	3
62	MP3C	Mx	.004	3
63	MP2C	Z	-1.887	4.25
64	MP2C	Mx	.000886	4.25
65	LIGHT	Z	-.322	0
66	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	2.466	.92
2	MP1A	Mx	-.002	.92
3	MP1A	X	2.466	4.42
4	MP1A	Mx	-.002	4.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
5	MP1B	X	2.466	.92
6	MP1B	Mx	-.000649	.92
7	MP1B	X	2.466	4.42
8	MP1B	Mx	-.000649	4.42
9	MP1A	X	2.466	.92
10	MP1A	Mx	-.002	.92
11	MP1A	X	2.466	4.42
12	MP1A	Mx	-.002	4.42
13	MP1B	X	2.466	.92
14	MP1B	Mx	.003	.92
15	MP1B	X	2.466	4.42
16	MP1B	Mx	.003	4.42
17	MP2C	X	2.466	.92
18	MP2C	Mx	.003	.92
19	MP2C	X	2.466	4.42
20	MP2C	Mx	.003	4.42
21	MP2C	X	2.466	.92
22	MP2C	Mx	-.001	.92
23	MP2C	X	2.466	4.42
24	MP2C	Mx	-.001	4.42
25	MP2A	X	4.669	1.67
26	MP2A	Mx	-.002	1.67
27	MP2A	X	4.669	3.67
28	MP2A	Mx	-.002	3.67
29	MP2B	X	4.669	1.67
30	MP2B	Mx	.001	1.67
31	MP2B	X	4.669	3.67
32	MP2B	Mx	.001	3.67
33	MP3C	X	4.669	1.67
34	MP3C	Mx	.000798	1.67
35	MP3C	X	4.669	3.67
36	MP3C	Mx	.000798	3.67
37	MP4A	X	.643	.91
38	MP4A	Mx	-.000322	.91
39	MP4A	X	.643	4.42
40	MP4A	Mx	-.000322	4.42
41	MP4B	X	.531	.92
42	MP4B	Mx	.000133	.92
43	MP4B	X	.531	4.42
44	MP4B	Mx	.000133	4.42
45	MP5C	X	.531	.92
46	MP5C	Mx	9.1e-5	.92
47	MP5C	X	.531	4.42
48	MP5C	Mx	9.1e-5	4.42
49	OVP	X	3.43	1
50	OVP	Mx	0	1
51	MP1A	X	9.048	3
52	MP1A	Mx	.005	3
53	MP1B	X	9.048	3
54	MP1B	Mx	-.002	3
55	MP2C	X	9.048	2.5
56	MP2C	Mx	-.002	2.5
57	MP2A	X	7.536	3
58	MP2A	Mx	.004	3
59	MP2B	X	7.536	3
60	MP2B	Mx	-.002	3
61	MP3C	X	7.536	3
62	MP3C	Mx	-.001	3
63	MP2C	X	1.887	4.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP2C	Mx	-0.000323	4.25
65	LIGHT	X	.322	0
66	LIGHT	Mx	0	0

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.489	-9.489	0	%100
2	M2	Y	-10.475	-10.475	0	%100
3	M5	Y	-9.967	-9.967	0	%100
4	M6	Y	-9.967	-9.967	0	%100
5	M7	Y	-9.967	-9.967	0	%100
6	M6A	Y	-7.515	-7.515	0	%100
7	M7A	Y	-7.515	-7.515	0	%100
8	M23A	Y	-7.515	-7.515	0	%100
9	M24	Y	-7.515	-7.515	0	%100
10	M38	Y	-9.489	-9.489	0	%100
11	M39A	Y	-7.515	-7.515	0	%100
12	M40	Y	-7.515	-7.515	0	%100
13	M54	Y	-9.489	-9.489	0	%100
14	M55	Y	-10.475	-10.475	0	%100
15	M56	Y	-10.475	-10.475	0	%100
16	MP2A	Y	-4.909	-4.909	0	%100
17	MP3A	Y	-4.909	-4.909	0	%100
18	MP4A	Y	-4.909	-4.909	0	%100
19	MP1A	Y	-5.606	-5.606	0	%100
20	MP3C	Y	-4.909	-4.909	0	%100
21	MP4C	Y	-4.909	-4.909	0	%100
22	MP5C	Y	-4.909	-4.909	0	%100
23	MP2C	Y	-5.606	-5.606	0	%100
24	MP2B	Y	-4.909	-4.909	0	%100
25	MP3B	Y	-4.909	-4.909	0	%100
26	MP4B	Y	-4.909	-4.909	0	%100
27	MP1B	Y	-5.606	-5.606	0	%100
28	MP1C	Y	-4.909	-4.909	0	%100
29	LIGHT	Y	-3.911	-3.911	0	%100
30	OVP	Y	-4.909	-4.909	0	%100
31	M58	Y	-5.606	-5.606	0	%100
32	M65	Y	-5.606	-5.606	0	%100
33	M66	Y	-5.606	-5.606	0	%100
34	M67	Y	-7.515	-7.515	0	%100
35	M68	Y	-7.515	-7.515	0	%100
36	M69	Y	-7.515	-7.515	0	%100
37	M78	Y	-10.491	-10.491	0	%100
38	M79	Y	-10.491	-10.491	0	%100
39	M80	Y	-10.491	-10.491	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-13.208	-13.208	0	%100
9	M7	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
10	M7	Z	-13.208	-13.208	0 %100
11	M6A	X	0	0	0 %100
12	M6A	Z	-20.718	-20.718	0 %100
13	M7A	X	0	0	0 %100
14	M7A	Z	-20.718	-20.718	0 %100
15	M23A	X	0	0	0 %100
16	M23A	Z	-5.18	-5.18	0 %100
17	M24	X	0	0	0 %100
18	M24	Z	-5.18	-5.18	0 %100
19	M38	X	0	0	0 %100
20	M38	Z	-8.88	-8.88	0 %100
21	M39A	X	0	0	0 %100
22	M39A	Z	-5.18	-5.18	0 %100
23	M40	X	0	0	0 %100
24	M40	Z	-5.18	-5.18	0 %100
25	M54	X	0	0	0 %100
26	M54	Z	-8.88	-8.88	0 %100
27	M55	X	0	0	0 %100
28	M55	Z	-11.568	-11.568	0 %100
29	M56	X	0	0	0 %100
30	M56	Z	-11.568	-11.568	0 %100
31	MP2A	X	0	0	0 %100
32	MP2A	Z	-9.841	-9.841	0 %100
33	MP3A	X	0	0	0 %100
34	MP3A	Z	-9.841	-9.841	0 %100
35	MP4A	X	0	0	0 %100
36	MP4A	Z	-9.841	-9.841	0 %100
37	MP1A	X	0	0	0 %100
38	MP1A	Z	-11.913	-11.913	0 %100
39	MP3C	X	0	0	0 %100
40	MP3C	Z	-9.841	-9.841	0 %100
41	MP4C	X	0	0	0 %100
42	MP4C	Z	-9.841	-9.841	0 %100
43	MP5C	X	0	0	0 %100
44	MP5C	Z	-9.841	-9.841	0 %100
45	MP2C	X	0	0	0 %100
46	MP2C	Z	-11.913	-11.913	0 %100
47	MP2B	X	0	0	0 %100
48	MP2B	Z	-9.841	-9.841	0 %100
49	MP3B	X	0	0	0 %100
50	MP3B	Z	-9.841	-9.841	0 %100
51	MP4B	X	0	0	0 %100
52	MP4B	Z	-9.841	-9.841	0 %100
53	MP1B	X	0	0	0 %100
54	MP1B	Z	-11.913	-11.913	0 %100
55	MP1C	X	0	0	0 %100
56	MP1C	Z	-9.841	-9.841	0 %100
57	LIGHT	X	0	0	0 %100
58	LIGHT	Z	-4.922	-4.922	0 %100
59	OVP	X	0	0	0 %100
60	OVP	Z	-8.047	-8.047	0 %100
61	M58	X	0	0	0 %100
62	M58	Z	-11.913	-11.913	0 %100
63	M65	X	0	0	0 %100
64	M65	Z	-2.978	-2.978	0 %100
65	M66	X	0	0	0 %100
66	M66	Z	-2.978	-2.978	0 %100
67	M67	X	0	0	0 %100
68	M67	Z	-3.526	-3.526	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
69	M68	X	0	0	0	%100
70	M68	Z	-3.526	-3.526	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	-14.105	-14.105	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	-17.723	-17.723	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	-17.723	-17.723	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	-9.229	-9.229	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.48	1.48	0	%100
2	M1	Z	-2.563	-2.563	0	%100
3	M2	X	1.928	1.928	0	%100
4	M2	Z	-3.339	-3.339	0	%100
5	M5	X	2.201	2.201	0	%100
6	M5	Z	-3.813	-3.813	0	%100
7	M6	X	2.201	2.201	0	%100
8	M6	Z	-3.813	-3.813	0	%100
9	M7	X	8.805	8.805	0	%100
10	M7	Z	-15.251	-15.251	0	%100
11	M6A	X	7.769	7.769	0	%100
12	M6A	Z	-13.457	-13.457	0	%100
13	M7A	X	7.769	7.769	0	%100
14	M7A	Z	-13.457	-13.457	0	%100
15	M23A	X	7.769	7.769	0	%100
16	M23A	Z	-13.457	-13.457	0	%100
17	M24	X	7.769	7.769	0	%100
18	M24	Z	-13.457	-13.457	0	%100
19	M38	X	1.48	1.48	0	%100
20	M38	Z	-2.563	-2.563	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	5.92	5.92	0	%100
26	M54	Z	-10.254	-10.254	0	%100
27	M55	X	1.928	1.928	0	%100
28	M55	Z	-3.339	-3.339	0	%100
29	M56	X	7.712	7.712	0	%100
30	M56	Z	-13.357	-13.357	0	%100
31	MP2A	X	4.921	4.921	0	%100
32	MP2A	Z	-8.523	-8.523	0	%100
33	MP3A	X	4.921	4.921	0	%100
34	MP3A	Z	-8.523	-8.523	0	%100
35	MP4A	X	4.921	4.921	0	%100
36	MP4A	Z	-8.523	-8.523	0	%100
37	MP1A	X	5.956	5.956	0	%100
38	MP1A	Z	-10.317	-10.317	0	%100
39	MP3C	X	4.921	4.921	0	%100
40	MP3C	Z	-8.523	-8.523	0	%100
41	MP4C	X	4.921	4.921	0	%100
42	MP4C	Z	-8.523	-8.523	0	%100
43	MP5C	X	4.921	4.921	0	%100
44	MP5C	Z	-8.523	-8.523	0	%100
45	MP2C	X	5.956	5.956	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
46	MP2C	Z	-10.317	-10.317	0	%100
47	MP2B	X	4.921	4.921	0	%100
48	MP2B	Z	-8.523	-8.523	0	%100
49	MP3B	X	4.921	4.921	0	%100
50	MP3B	Z	-8.523	-8.523	0	%100
51	MP4B	X	4.921	4.921	0	%100
52	MP4B	Z	-8.523	-8.523	0	%100
53	MP1B	X	5.956	5.956	0	%100
54	MP1B	Z	-10.317	-10.317	0	%100
55	MP1C	X	4.921	4.921	0	%100
56	MP1C	Z	-8.523	-8.523	0	%100
57	LIGHT	X	2.461	2.461	0	%100
58	LIGHT	Z	-4.262	-4.262	0	%100
59	OVP	X	4.024	4.024	0	%100
60	OVP	Z	-6.969	-6.969	0	%100
61	M58	X	4.467	4.467	0	%100
62	M58	Z	-7.738	-7.738	0	%100
63	M65	X	4.467	4.467	0	%100
64	M65	Z	-7.738	-7.738	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	5.289	5.289	0	%100
68	M67	Z	-9.161	-9.161	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	5.289	5.289	0	%100
72	M69	Z	-9.161	-9.161	0	%100
73	M78	X	6.03	6.03	0	%100
74	M78	Z	-10.445	-10.445	0	%100
75	M79	X	10.277	10.277	0	%100
76	M79	Z	-17.801	-17.801	0	%100
77	M80	X	6.03	6.03	0	%100
78	M80	Z	-10.445	-10.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	7.69	7.69	0	%100
2	M1	Z	-4.44	-4.44	0	%100
3	M2	X	10.018	10.018	0	%100
4	M2	Z	-5.784	-5.784	0	%100
5	M5	X	11.438	11.438	0	%100
6	M5	Z	-6.604	-6.604	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	11.438	11.438	0	%100
10	M7	Z	-6.604	-6.604	0	%100
11	M6A	X	4.486	4.486	0	%100
12	M6A	Z	-2.59	-2.59	0	%100
13	M7A	X	4.486	4.486	0	%100
14	M7A	Z	-2.59	-2.59	0	%100
15	M23A	X	17.942	17.942	0	%100
16	M23A	Z	-10.359	-10.359	0	%100
17	M24	X	17.942	17.942	0	%100
18	M24	Z	-10.359	-10.359	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	4.486	4.486	0	%100
22	M39A	Z	-2.59	-2.59	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
23	M40	X	4.486	4.486	0 %100
24	M40	Z	-2.59	-2.59	0 %100
25	M54	X	7.69	7.69	0 %100
26	M54	Z	-4.44	-4.44	0 %100
27	M55	X	0	0	0 %100
28	M55	Z	0	0	0 %100
29	M56	X	10.018	10.018	0 %100
30	M56	Z	-5.784	-5.784	0 %100
31	MP2A	X	8.523	8.523	0 %100
32	MP2A	Z	-4.921	-4.921	0 %100
33	MP3A	X	8.523	8.523	0 %100
34	MP3A	Z	-4.921	-4.921	0 %100
35	MP4A	X	8.523	8.523	0 %100
36	MP4A	Z	-4.921	-4.921	0 %100
37	MP1A	X	10.317	10.317	0 %100
38	MP1A	Z	-5.956	-5.956	0 %100
39	MP3C	X	8.523	8.523	0 %100
40	MP3C	Z	-4.921	-4.921	0 %100
41	MP4C	X	8.523	8.523	0 %100
42	MP4C	Z	-4.921	-4.921	0 %100
43	MP5C	X	8.523	8.523	0 %100
44	MP5C	Z	-4.921	-4.921	0 %100
45	MP2C	X	10.317	10.317	0 %100
46	MP2C	Z	-5.956	-5.956	0 %100
47	MP2B	X	8.523	8.523	0 %100
48	MP2B	Z	-4.921	-4.921	0 %100
49	MP3B	X	8.523	8.523	0 %100
50	MP3B	Z	-4.921	-4.921	0 %100
51	MP4B	X	8.523	8.523	0 %100
52	MP4B	Z	-4.921	-4.921	0 %100
53	MP1B	X	10.317	10.317	0 %100
54	MP1B	Z	-5.956	-5.956	0 %100
55	MP1C	X	8.523	8.523	0 %100
56	MP1C	Z	-4.921	-4.921	0 %100
57	LIGHT	X	4.262	4.262	0 %100
58	LIGHT	Z	-2.461	-2.461	0 %100
59	OVP	X	6.969	6.969	0 %100
60	OVP	Z	-4.024	-4.024	0 %100
61	M58	X	2.579	2.579	0 %100
62	M58	Z	-1.489	-1.489	0 %100
63	M65	X	10.317	10.317	0 %100
64	M65	Z	-5.956	-5.956	0 %100
65	M66	X	2.579	2.579	0 %100
66	M66	Z	-1.489	-1.489	0 %100
67	M67	X	12.215	12.215	0 %100
68	M67	Z	-7.052	-7.052	0 %100
69	M68	X	3.054	3.054	0 %100
70	M68	Z	-1.763	-1.763	0 %100
71	M69	X	3.054	3.054	0 %100
72	M69	Z	-1.763	-1.763	0 %100
73	M78	X	7.993	7.993	0 %100
74	M78	Z	-4.615	-4.615	0 %100
75	M79	X	15.349	15.349	0 %100
76	M79	Z	-8.862	-8.862	0 %100
77	M80	X	15.349	15.349	0 %100
78	M80	Z	-8.862	-8.862	0 %100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	11.84	11.84	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	15.423	15.423	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	17.61	17.61	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	4.403	4.403	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	4.403	4.403	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	15.539	15.539	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	15.539	15.539	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	2.96	2.96	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	15.539	15.539	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	15.539	15.539	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	2.96	2.96	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	3.856	3.856	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	3.856	3.856	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	9.841	9.841	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	9.841	9.841	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	9.841	9.841	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	11.913	11.913	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	9.841	9.841	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	9.841	9.841	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	9.841	9.841	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	11.913	11.913	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	9.841	9.841	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	9.841	9.841	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	9.841	9.841	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	11.913	11.913	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	9.841	9.841	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	4.922	4.922	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	8.047	8.047	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	8.935	8.935	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	8.935	8.935	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	10.578	10.578	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	10.578	10.578	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	12.06	12.06	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	12.06	12.06	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	20.554	20.554	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	7.69	7.69	0	%100
2	M1	Z	4.44	4.44	0	%100
3	M2	X	10.018	10.018	0	%100
4	M2	Z	5.784	5.784	0	%100
5	M5	X	11.438	11.438	0	%100
6	M5	Z	6.604	6.604	0	%100
7	M6	X	11.438	11.438	0	%100
8	M6	Z	6.604	6.604	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	4.486	4.486	0	%100
12	M6A	Z	2.59	2.59	0	%100
13	M7A	X	4.486	4.486	0	%100
14	M7A	Z	2.59	2.59	0	%100
15	M23A	X	4.486	4.486	0	%100
16	M23A	Z	2.59	2.59	0	%100
17	M24	X	4.486	4.486	0	%100
18	M24	Z	2.59	2.59	0	%100
19	M38	X	7.69	7.69	0	%100
20	M38	Z	4.44	4.44	0	%100
21	M39A	X	17.942	17.942	0	%100
22	M39A	Z	10.359	10.359	0	%100
23	M40	X	17.942	17.942	0	%100
24	M40	Z	10.359	10.359	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	10.018	10.018	0	%100
28	M55	Z	5.784	5.784	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	8.523	8.523	0	%100
32	MP2A	Z	4.921	4.921	0	%100
33	MP3A	X	8.523	8.523	0	%100
34	MP3A	Z	4.921	4.921	0	%100
35	MP4A	X	8.523	8.523	0	%100
36	MP4A	Z	4.921	4.921	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	10.317	10.317	0	%100
38	MP1A	Z	5.956	5.956	0	%100
39	MP3C	X	8.523	8.523	0	%100
40	MP3C	Z	4.921	4.921	0	%100
41	MP4C	X	8.523	8.523	0	%100
42	MP4C	Z	4.921	4.921	0	%100
43	MP5C	X	8.523	8.523	0	%100
44	MP5C	Z	4.921	4.921	0	%100
45	MP2C	X	10.317	10.317	0	%100
46	MP2C	Z	5.956	5.956	0	%100
47	MP2B	X	8.523	8.523	0	%100
48	MP2B	Z	4.921	4.921	0	%100
49	MP3B	X	8.523	8.523	0	%100
50	MP3B	Z	4.921	4.921	0	%100
51	MP4B	X	8.523	8.523	0	%100
52	MP4B	Z	4.921	4.921	0	%100
53	MP1B	X	10.317	10.317	0	%100
54	MP1B	Z	5.956	5.956	0	%100
55	MP1C	X	8.523	8.523	0	%100
56	MP1C	Z	4.921	4.921	0	%100
57	LIGHT	X	4.262	4.262	0	%100
58	LIGHT	Z	2.461	2.461	0	%100
59	OVP	X	6.969	6.969	0	%100
60	OVP	Z	4.024	4.024	0	%100
61	M58	X	2.579	2.579	0	%100
62	M58	Z	1.489	1.489	0	%100
63	M65	X	2.579	2.579	0	%100
64	M65	Z	1.489	1.489	0	%100
65	M66	X	10.317	10.317	0	%100
66	M66	Z	5.956	5.956	0	%100
67	M67	X	3.054	3.054	0	%100
68	M67	Z	1.763	1.763	0	%100
69	M68	X	12.215	12.215	0	%100
70	M68	Z	7.052	7.052	0	%100
71	M69	X	3.054	3.054	0	%100
72	M69	Z	1.763	1.763	0	%100
73	M78	X	15.349	15.349	0	%100
74	M78	Z	8.862	8.862	0	%100
75	M79	X	7.993	7.993	0	%100
76	M79	Z	4.615	4.615	0	%100
77	M80	X	15.349	15.349	0	%100
78	M80	Z	8.862	8.862	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.48	1.48	0	%100
2	M1	Z	2.563	2.563	0	%100
3	M2	X	1.928	1.928	0	%100
4	M2	Z	3.339	3.339	0	%100
5	M5	X	2.201	2.201	0	%100
6	M5	Z	3.813	3.813	0	%100
7	M6	X	8.805	8.805	0	%100
8	M6	Z	15.251	15.251	0	%100
9	M7	X	2.201	2.201	0	%100
10	M7	Z	3.813	3.813	0	%100
11	M6A	X	7.769	7.769	0	%100
12	M6A	Z	13.457	13.457	0	%100
13	M7A	X	7.769	7.769	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
14	M7A	Z	13.457	13.457	0 %100
15	M23A	X	0	0	0 %100
16	M23A	Z	0	0	0 %100
17	M24	X	0	0	0 %100
18	M24	Z	0	0	0 %100
19	M38	X	5.92	5.92	0 %100
20	M38	Z	10.254	10.254	0 %100
21	M39A	X	7.769	7.769	0 %100
22	M39A	Z	13.457	13.457	0 %100
23	M40	X	7.769	7.769	0 %100
24	M40	Z	13.457	13.457	0 %100
25	M54	X	1.48	1.48	0 %100
26	M54	Z	2.563	2.563	0 %100
27	M55	X	7.712	7.712	0 %100
28	M55	Z	13.357	13.357	0 %100
29	M56	X	1.928	1.928	0 %100
30	M56	Z	3.339	3.339	0 %100
31	MP2A	X	4.921	4.921	0 %100
32	MP2A	Z	8.523	8.523	0 %100
33	MP3A	X	4.921	4.921	0 %100
34	MP3A	Z	8.523	8.523	0 %100
35	MP4A	X	4.921	4.921	0 %100
36	MP4A	Z	8.523	8.523	0 %100
37	MP1A	X	5.956	5.956	0 %100
38	MP1A	Z	10.317	10.317	0 %100
39	MP3C	X	4.921	4.921	0 %100
40	MP3C	Z	8.523	8.523	0 %100
41	MP4C	X	4.921	4.921	0 %100
42	MP4C	Z	8.523	8.523	0 %100
43	MP5C	X	4.921	4.921	0 %100
44	MP5C	Z	8.523	8.523	0 %100
45	MP2C	X	5.956	5.956	0 %100
46	MP2C	Z	10.317	10.317	0 %100
47	MP2B	X	4.921	4.921	0 %100
48	MP2B	Z	8.523	8.523	0 %100
49	MP3B	X	4.921	4.921	0 %100
50	MP3B	Z	8.523	8.523	0 %100
51	MP4B	X	4.921	4.921	0 %100
52	MP4B	Z	8.523	8.523	0 %100
53	MP1B	X	5.956	5.956	0 %100
54	MP1B	Z	10.317	10.317	0 %100
55	MP1C	X	4.921	4.921	0 %100
56	MP1C	Z	8.523	8.523	0 %100
57	LIGHT	X	2.461	2.461	0 %100
58	LIGHT	Z	4.262	4.262	0 %100
59	OVP	X	4.024	4.024	0 %100
60	OVP	Z	6.969	6.969	0 %100
61	M58	X	4.467	4.467	0 %100
62	M58	Z	7.738	7.738	0 %100
63	M65	X	0	0	0 %100
64	M65	Z	0	0	0 %100
65	M66	X	4.467	4.467	0 %100
66	M66	Z	7.738	7.738	0 %100
67	M67	X	0	0	0 %100
68	M67	Z	0	0	0 %100
69	M68	X	5.289	5.289	0 %100
70	M68	Z	9.161	9.161	0 %100
71	M69	X	5.289	5.289	0 %100
72	M69	Z	9.161	9.161	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
73	M78	X	10.277	10.277	0	%100
74	M78	Z	17.801	17.801	0	%100
75	M79	X	6.03	6.03	0	%100
76	M79	Z	10.445	10.445	0	%100
77	M80	X	6.03	6.03	0	%100
78	M80	Z	10.445	10.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	13.208	13.208	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	13.208	13.208	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	20.718	20.718	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	20.718	20.718	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	5.18	5.18	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	5.18	5.18	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	8.88	8.88	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	5.18	5.18	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	5.18	5.18	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	8.88	8.88	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	11.568	11.568	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	11.568	11.568	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	9.841	9.841	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	9.841	9.841	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	9.841	9.841	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	11.913	11.913	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	9.841	9.841	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	9.841	9.841	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	9.841	9.841	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	11.913	11.913	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	9.841	9.841	0	%100
49	MP3B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
50	MP3B	Z	9.841	9.841	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	9.841	9.841	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	11.913	11.913	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	9.841	9.841	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	4.922	4.922	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	8.047	8.047	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	11.913	11.913	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	2.978	2.978	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	2.978	2.978	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	3.526	3.526	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	3.526	3.526	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	14.105	14.105	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	17.723	17.723	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	17.723	17.723	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	9.229	9.229	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.48	-1.48	0	%100
2	M1	Z	2.563	2.563	0	%100
3	M2	X	-1.928	-1.928	0	%100
4	M2	Z	3.339	3.339	0	%100
5	M5	X	-2.201	-2.201	0	%100
6	M5	Z	3.813	3.813	0	%100
7	M6	X	-2.201	-2.201	0	%100
8	M6	Z	3.813	3.813	0	%100
9	M7	X	-8.805	-8.805	0	%100
10	M7	Z	15.251	15.251	0	%100
11	M6A	X	-7.769	-7.769	0	%100
12	M6A	Z	13.457	13.457	0	%100
13	M7A	X	-7.769	-7.769	0	%100
14	M7A	Z	13.457	13.457	0	%100
15	M23A	X	-7.769	-7.769	0	%100
16	M23A	Z	13.457	13.457	0	%100
17	M24	X	-7.769	-7.769	0	%100
18	M24	Z	13.457	13.457	0	%100
19	M38	X	-1.48	-1.48	0	%100
20	M38	Z	2.563	2.563	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-5.92	-5.92	0	%100
26	M54	Z	10.254	10.254	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
27	M55	X	-1.928	-1.928	0	%100
28	M55	Z	3.339	3.339	0	%100
29	M56	X	-7.712	-7.712	0	%100
30	M56	Z	13.357	13.357	0	%100
31	MP2A	X	-4.921	-4.921	0	%100
32	MP2A	Z	8.523	8.523	0	%100
33	MP3A	X	-4.921	-4.921	0	%100
34	MP3A	Z	8.523	8.523	0	%100
35	MP4A	X	-4.921	-4.921	0	%100
36	MP4A	Z	8.523	8.523	0	%100
37	MP1A	X	-5.956	-5.956	0	%100
38	MP1A	Z	10.317	10.317	0	%100
39	MP3C	X	-4.921	-4.921	0	%100
40	MP3C	Z	8.523	8.523	0	%100
41	MP4C	X	-4.921	-4.921	0	%100
42	MP4C	Z	8.523	8.523	0	%100
43	MP5C	X	-4.921	-4.921	0	%100
44	MP5C	Z	8.523	8.523	0	%100
45	MP2C	X	-5.956	-5.956	0	%100
46	MP2C	Z	10.317	10.317	0	%100
47	MP2B	X	-4.921	-4.921	0	%100
48	MP2B	Z	8.523	8.523	0	%100
49	MP3B	X	-4.921	-4.921	0	%100
50	MP3B	Z	8.523	8.523	0	%100
51	MP4B	X	-4.921	-4.921	0	%100
52	MP4B	Z	8.523	8.523	0	%100
53	MP1B	X	-5.956	-5.956	0	%100
54	MP1B	Z	10.317	10.317	0	%100
55	MP1C	X	-4.921	-4.921	0	%100
56	MP1C	Z	8.523	8.523	0	%100
57	LIGHT	X	-2.461	-2.461	0	%100
58	LIGHT	Z	4.262	4.262	0	%100
59	OVP	X	-4.024	-4.024	0	%100
60	OVP	Z	6.969	6.969	0	%100
61	M58	X	-4.467	-4.467	0	%100
62	M58	Z	7.738	7.738	0	%100
63	M65	X	-4.467	-4.467	0	%100
64	M65	Z	7.738	7.738	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-5.289	-5.289	0	%100
68	M67	Z	9.161	9.161	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	-5.289	-5.289	0	%100
72	M69	Z	9.161	9.161	0	%100
73	M78	X	-6.03	-6.03	0	%100
74	M78	Z	10.445	10.445	0	%100
75	M79	X	-10.277	-10.277	0	%100
76	M79	Z	17.801	17.801	0	%100
77	M80	X	-6.03	-6.03	0	%100
78	M80	Z	10.445	10.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-7.69	-7.69	0	%100
2	M1	Z	4.44	4.44	0	%100
3	M2	X	-10.018	-10.018	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	5.784	5.784	0	%100
5	M5	X	-11.438	-11.438	0	%100
6	M5	Z	6.604	6.604	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-11.438	-11.438	0	%100
10	M7	Z	6.604	6.604	0	%100
11	M6A	X	-4.486	-4.486	0	%100
12	M6A	Z	2.59	2.59	0	%100
13	M7A	X	-4.486	-4.486	0	%100
14	M7A	Z	2.59	2.59	0	%100
15	M23A	X	-17.942	-17.942	0	%100
16	M23A	Z	10.359	10.359	0	%100
17	M24	X	-17.942	-17.942	0	%100
18	M24	Z	10.359	10.359	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-4.486	-4.486	0	%100
22	M39A	Z	2.59	2.59	0	%100
23	M40	X	-4.486	-4.486	0	%100
24	M40	Z	2.59	2.59	0	%100
25	M54	X	-7.69	-7.69	0	%100
26	M54	Z	4.44	4.44	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-10.018	-10.018	0	%100
30	M56	Z	5.784	5.784	0	%100
31	MP2A	X	-8.523	-8.523	0	%100
32	MP2A	Z	4.921	4.921	0	%100
33	MP3A	X	-8.523	-8.523	0	%100
34	MP3A	Z	4.921	4.921	0	%100
35	MP4A	X	-8.523	-8.523	0	%100
36	MP4A	Z	4.921	4.921	0	%100
37	MP1A	X	-10.317	-10.317	0	%100
38	MP1A	Z	5.956	5.956	0	%100
39	MP3C	X	-8.523	-8.523	0	%100
40	MP3C	Z	4.921	4.921	0	%100
41	MP4C	X	-8.523	-8.523	0	%100
42	MP4C	Z	4.921	4.921	0	%100
43	MP5C	X	-8.523	-8.523	0	%100
44	MP5C	Z	4.921	4.921	0	%100
45	MP2C	X	-10.317	-10.317	0	%100
46	MP2C	Z	5.956	5.956	0	%100
47	MP2B	X	-8.523	-8.523	0	%100
48	MP2B	Z	4.921	4.921	0	%100
49	MP3B	X	-8.523	-8.523	0	%100
50	MP3B	Z	4.921	4.921	0	%100
51	MP4B	X	-8.523	-8.523	0	%100
52	MP4B	Z	4.921	4.921	0	%100
53	MP1B	X	-10.317	-10.317	0	%100
54	MP1B	Z	5.956	5.956	0	%100
55	MP1C	X	-8.523	-8.523	0	%100
56	MP1C	Z	4.921	4.921	0	%100
57	LIGHT	X	-4.262	-4.262	0	%100
58	LIGHT	Z	2.461	2.461	0	%100
59	OVP	X	-6.969	-6.969	0	%100
60	OVP	Z	4.024	4.024	0	%100
61	M58	X	-2.579	-2.579	0	%100
62	M58	Z	1.489	1.489	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
63	M65	X	-10.317	-10.317	0	%100
64	M65	Z	5.956	5.956	0	%100
65	M66	X	-2.579	-2.579	0	%100
66	M66	Z	1.489	1.489	0	%100
67	M67	X	-12.215	-12.215	0	%100
68	M67	Z	7.052	7.052	0	%100
69	M68	X	-3.054	-3.054	0	%100
70	M68	Z	1.763	1.763	0	%100
71	M69	X	-3.054	-3.054	0	%100
72	M69	Z	1.763	1.763	0	%100
73	M78	X	-7.993	-7.993	0	%100
74	M78	Z	4.615	4.615	0	%100
75	M79	X	-15.349	-15.349	0	%100
76	M79	Z	8.862	8.862	0	%100
77	M80	X	-15.349	-15.349	0	%100
78	M80	Z	8.862	8.862	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-11.84	-11.84	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-15.423	-15.423	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-17.61	-17.61	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-4.403	-4.403	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-4.403	-4.403	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-15.539	-15.539	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-15.539	-15.539	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-2.96	-2.96	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-15.539	-15.539	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-15.539	-15.539	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-2.96	-2.96	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-3.856	-3.856	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-3.856	-3.856	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-9.841	-9.841	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-9.841	-9.841	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-9.841	-9.841	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	-11.913	-11.913	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	-9.841	-9.841	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
40	MP3C	Z	0	0	0	%100
41	MP4C	X	-9.841	-9.841	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	-9.841	-9.841	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	-11.913	-11.913	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	-9.841	-9.841	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-9.841	-9.841	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-9.841	-9.841	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	-11.913	-11.913	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	-9.841	-9.841	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	-4.922	-4.922	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	-8.047	-8.047	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	-8.935	-8.935	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-8.935	-8.935	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-10.578	-10.578	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-10.578	-10.578	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	-12.06	-12.06	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	-12.06	-12.06	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	-20.554	-20.554	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-7.69	-7.69	0	%100
2	M1	Z	-4.44	-4.44	0	%100
3	M2	X	-10.018	-10.018	0	%100
4	M2	Z	-5.784	-5.784	0	%100
5	M5	X	-11.438	-11.438	0	%100
6	M5	Z	-6.604	-6.604	0	%100
7	M6	X	-11.438	-11.438	0	%100
8	M6	Z	-6.604	-6.604	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-4.486	-4.486	0	%100
12	M6A	Z	-2.59	-2.59	0	%100
13	M7A	X	-4.486	-4.486	0	%100
14	M7A	Z	-2.59	-2.59	0	%100
15	M23A	X	-4.486	-4.486	0	%100
16	M23A	Z	-2.59	-2.59	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
17	M24	X	-4.486	-4.486	0 %100
18	M24	Z	-2.59	-2.59	0 %100
19	M38	X	-7.69	-7.69	0 %100
20	M38	Z	-4.44	-4.44	0 %100
21	M39A	X	-17.942	-17.942	0 %100
22	M39A	Z	-10.359	-10.359	0 %100
23	M40	X	-17.942	-17.942	0 %100
24	M40	Z	-10.359	-10.359	0 %100
25	M54	X	0	0	0 %100
26	M54	Z	0	0	0 %100
27	M55	X	-10.018	-10.018	0 %100
28	M55	Z	-5.784	-5.784	0 %100
29	M56	X	0	0	0 %100
30	M56	Z	0	0	0 %100
31	MP2A	X	-8.523	-8.523	0 %100
32	MP2A	Z	-4.921	-4.921	0 %100
33	MP3A	X	-8.523	-8.523	0 %100
34	MP3A	Z	-4.921	-4.921	0 %100
35	MP4A	X	-8.523	-8.523	0 %100
36	MP4A	Z	-4.921	-4.921	0 %100
37	MP1A	X	-10.317	-10.317	0 %100
38	MP1A	Z	-5.956	-5.956	0 %100
39	MP3C	X	-8.523	-8.523	0 %100
40	MP3C	Z	-4.921	-4.921	0 %100
41	MP4C	X	-8.523	-8.523	0 %100
42	MP4C	Z	-4.921	-4.921	0 %100
43	MP5C	X	-8.523	-8.523	0 %100
44	MP5C	Z	-4.921	-4.921	0 %100
45	MP2C	X	-10.317	-10.317	0 %100
46	MP2C	Z	-5.956	-5.956	0 %100
47	MP2B	X	-8.523	-8.523	0 %100
48	MP2B	Z	-4.921	-4.921	0 %100
49	MP3B	X	-8.523	-8.523	0 %100
50	MP3B	Z	-4.921	-4.921	0 %100
51	MP4B	X	-8.523	-8.523	0 %100
52	MP4B	Z	-4.921	-4.921	0 %100
53	MP1B	X	-10.317	-10.317	0 %100
54	MP1B	Z	-5.956	-5.956	0 %100
55	MP1C	X	-8.523	-8.523	0 %100
56	MP1C	Z	-4.921	-4.921	0 %100
57	LIGHT	X	-4.262	-4.262	0 %100
58	LIGHT	Z	-2.461	-2.461	0 %100
59	OVP	X	-6.969	-6.969	0 %100
60	OVP	Z	-4.024	-4.024	0 %100
61	M58	X	-2.579	-2.579	0 %100
62	M58	Z	-1.489	-1.489	0 %100
63	M65	X	-2.579	-2.579	0 %100
64	M65	Z	-1.489	-1.489	0 %100
65	M66	X	-10.317	-10.317	0 %100
66	M66	Z	-5.956	-5.956	0 %100
67	M67	X	-3.054	-3.054	0 %100
68	M67	Z	-1.763	-1.763	0 %100
69	M68	X	-12.215	-12.215	0 %100
70	M68	Z	-7.052	-7.052	0 %100
71	M69	X	-3.054	-3.054	0 %100
72	M69	Z	-1.763	-1.763	0 %100
73	M78	X	-15.349	-15.349	0 %100
74	M78	Z	-8.862	-8.862	0 %100
75	M79	X	-7.993	-7.993	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
76	M79	Z	-4.615	-4.615	0	%100
77	M80	X	-15.349	-15.349	0	%100
78	M80	Z	-8.862	-8.862	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.48	-1.48	0	%100
2	M1	Z	-2.563	-2.563	0	%100
3	M2	X	-1.928	-1.928	0	%100
4	M2	Z	-3.339	-3.339	0	%100
5	M5	X	-2.201	-2.201	0	%100
6	M5	Z	-3.813	-3.813	0	%100
7	M6	X	-8.805	-8.805	0	%100
8	M6	Z	-15.251	-15.251	0	%100
9	M7	X	-2.201	-2.201	0	%100
10	M7	Z	-3.813	-3.813	0	%100
11	M6A	X	-7.769	-7.769	0	%100
12	M6A	Z	-13.457	-13.457	0	%100
13	M7A	X	-7.769	-7.769	0	%100
14	M7A	Z	-13.457	-13.457	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-5.92	-5.92	0	%100
20	M38	Z	-10.254	-10.254	0	%100
21	M39A	X	-7.769	-7.769	0	%100
22	M39A	Z	-13.457	-13.457	0	%100
23	M40	X	-7.769	-7.769	0	%100
24	M40	Z	-13.457	-13.457	0	%100
25	M54	X	-1.48	-1.48	0	%100
26	M54	Z	-2.563	-2.563	0	%100
27	M55	X	-7.712	-7.712	0	%100
28	M55	Z	-13.357	-13.357	0	%100
29	M56	X	-1.928	-1.928	0	%100
30	M56	Z	-3.339	-3.339	0	%100
31	MP2A	X	-4.921	-4.921	0	%100
32	MP2A	Z	-8.523	-8.523	0	%100
33	MP3A	X	-4.921	-4.921	0	%100
34	MP3A	Z	-8.523	-8.523	0	%100
35	MP4A	X	-4.921	-4.921	0	%100
36	MP4A	Z	-8.523	-8.523	0	%100
37	MP1A	X	-5.956	-5.956	0	%100
38	MP1A	Z	-10.317	-10.317	0	%100
39	MP3C	X	-4.921	-4.921	0	%100
40	MP3C	Z	-8.523	-8.523	0	%100
41	MP4C	X	-4.921	-4.921	0	%100
42	MP4C	Z	-8.523	-8.523	0	%100
43	MP5C	X	-4.921	-4.921	0	%100
44	MP5C	Z	-8.523	-8.523	0	%100
45	MP2C	X	-5.956	-5.956	0	%100
46	MP2C	Z	-10.317	-10.317	0	%100
47	MP2B	X	-4.921	-4.921	0	%100
48	MP2B	Z	-8.523	-8.523	0	%100
49	MP3B	X	-4.921	-4.921	0	%100
50	MP3B	Z	-8.523	-8.523	0	%100
51	MP4B	X	-4.921	-4.921	0	%100
52	MP4B	Z	-8.523	-8.523	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
53	MP1B	X	-5.956	-5.956	0	%100
54	MP1B	Z	-10.317	-10.317	0	%100
55	MP1C	X	-4.921	-4.921	0	%100
56	MP1C	Z	-8.523	-8.523	0	%100
57	LIGHT	X	-2.461	-2.461	0	%100
58	LIGHT	Z	-4.262	-4.262	0	%100
59	OVP	X	-4.024	-4.024	0	%100
60	OVP	Z	-6.969	-6.969	0	%100
61	M58	X	-4.467	-4.467	0	%100
62	M58	Z	-7.738	-7.738	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-4.467	-4.467	0	%100
66	M66	Z	-7.738	-7.738	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-5.289	-5.289	0	%100
70	M68	Z	-9.161	-9.161	0	%100
71	M69	X	-5.289	-5.289	0	%100
72	M69	Z	-9.161	-9.161	0	%100
73	M78	X	-10.277	-10.277	0	%100
74	M78	Z	-17.801	-17.801	0	%100
75	M79	X	-6.03	-6.03	0	%100
76	M79	Z	-10.445	-10.445	0	%100
77	M80	X	-6.03	-6.03	0	%100
78	M80	Z	-10.445	-10.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.435	-3.435	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.435	-3.435	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-5.24	-5.24	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-5.24	-5.24	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-1.31	-1.31	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	-1.31	-1.31	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-2.33	-2.33	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-1.31	-1.31	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-1.31	-1.31	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-2.33	-2.33	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-2.91	-2.91	0	%100
29	M56	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
30	M56	Z	-2.91	-2.91	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-3.352	-3.352	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-3.352	-3.352	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-3.352	-3.352	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-3.712	-3.712	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	-3.352	-3.352	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	-3.352	-3.352	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	-3.352	-3.352	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	-3.712	-3.712	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	-3.352	-3.352	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-3.352	-3.352	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-3.352	-3.352	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-3.712	-3.712	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-3.352	-3.352	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	-1.95	-1.95	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	-2.759	-2.759	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-3.712	-3.712	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-.928	-.928	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-.928	-.928	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	-.894	-.894	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	-.894	-.894	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	-3.577	-3.577	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	-4.421	-4.421	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	-4.421	-4.421	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	-2.046	-2.046	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.388	.388	0	%100
2	M1	Z	-.672	-.672	0	%100
3	M2	X	.485	.485	0	%100
4	M2	Z	-.84	-.84	0	%100
5	M5	X	.572	.572	0	%100
6	M5	Z	-.991	-.991	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
7	M6	X	.572	.572	0 %100
8	M6	Z	-.991	-.991	0 %100
9	M7	X	2.29	2.29	0 %100
10	M7	Z	-3.966	-3.966	0 %100
11	M6A	X	1.965	1.965	0 %100
12	M6A	Z	-3.404	-3.404	0 %100
13	M7A	X	1.965	1.965	0 %100
14	M7A	Z	-3.404	-3.404	0 %100
15	M23A	X	1.965	1.965	0 %100
16	M23A	Z	-3.404	-3.404	0 %100
17	M24	X	1.965	1.965	0 %100
18	M24	Z	-3.404	-3.404	0 %100
19	M38	X	.388	.388	0 %100
20	M38	Z	-.672	-.672	0 %100
21	M39A	X	0	0	0 %100
22	M39A	Z	0	0	0 %100
23	M40	X	0	0	0 %100
24	M40	Z	0	0	0 %100
25	M54	X	1.553	1.553	0 %100
26	M54	Z	-2.69	-2.69	0 %100
27	M55	X	.485	.485	0 %100
28	M55	Z	-.84	-.84	0 %100
29	M56	X	1.94	1.94	0 %100
30	M56	Z	-3.36	-3.36	0 %100
31	MP2A	X	1.676	1.676	0 %100
32	MP2A	Z	-2.903	-2.903	0 %100
33	MP3A	X	1.676	1.676	0 %100
34	MP3A	Z	-2.903	-2.903	0 %100
35	MP4A	X	1.676	1.676	0 %100
36	MP4A	Z	-2.903	-2.903	0 %100
37	MP1A	X	1.856	1.856	0 %100
38	MP1A	Z	-3.214	-3.214	0 %100
39	MP3C	X	1.676	1.676	0 %100
40	MP3C	Z	-2.903	-2.903	0 %100
41	MP4C	X	1.676	1.676	0 %100
42	MP4C	Z	-2.903	-2.903	0 %100
43	MP5C	X	1.676	1.676	0 %100
44	MP5C	Z	-2.903	-2.903	0 %100
45	MP2C	X	1.856	1.856	0 %100
46	MP2C	Z	-3.214	-3.214	0 %100
47	MP2B	X	1.676	1.676	0 %100
48	MP2B	Z	-2.903	-2.903	0 %100
49	MP3B	X	1.676	1.676	0 %100
50	MP3B	Z	-2.903	-2.903	0 %100
51	MP4B	X	1.676	1.676	0 %100
52	MP4B	Z	-2.903	-2.903	0 %100
53	MP1B	X	1.856	1.856	0 %100
54	MP1B	Z	-3.214	-3.214	0 %100
55	MP1C	X	1.676	1.676	0 %100
56	MP1C	Z	-2.903	-2.903	0 %100
57	LIGHT	X	.975	.975	0 %100
58	LIGHT	Z	-1.689	-1.689	0 %100
59	OVP	X	1.38	1.38	0 %100
60	OVP	Z	-2.39	-2.39	0 %100
61	M58	X	1.392	1.392	0 %100
62	M58	Z	-2.411	-2.411	0 %100
63	M65	X	1.392	1.392	0 %100
64	M65	Z	-2.411	-2.411	0 %100
65	M66	X	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
66	M66	Z	0	0	0	%100
67	M67	X	1.341	1.341	0	%100
68	M67	Z	-2.323	-2.323	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	1.341	1.341	0	%100
72	M69	Z	-2.323	-2.323	0	%100
73	M78	X	1.419	1.419	0	%100
74	M78	Z	-2.458	-2.458	0	%100
75	M79	X	2.606	2.606	0	%100
76	M79	Z	-4.514	-4.514	0	%100
77	M80	X	1.419	1.419	0	%100
78	M80	Z	-2.458	-2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.017	2.017	0	%100
2	M1	Z	-1.165	-1.165	0	%100
3	M2	X	2.52	2.52	0	%100
4	M2	Z	-1.455	-1.455	0	%100
5	M5	X	2.974	2.974	0	%100
6	M5	Z	-1.717	-1.717	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	2.974	2.974	0	%100
10	M7	Z	-1.717	-1.717	0	%100
11	M6A	X	1.135	1.135	0	%100
12	M6A	Z	-.655	-.655	0	%100
13	M7A	X	1.135	1.135	0	%100
14	M7A	Z	-.655	-.655	0	%100
15	M23A	X	4.538	4.538	0	%100
16	M23A	Z	-2.62	-2.62	0	%100
17	M24	X	4.538	4.538	0	%100
18	M24	Z	-2.62	-2.62	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	1.135	1.135	0	%100
22	M39A	Z	-.655	-.655	0	%100
23	M40	X	1.135	1.135	0	%100
24	M40	Z	-.655	-.655	0	%100
25	M54	X	2.017	2.017	0	%100
26	M54	Z	-1.165	-1.165	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	2.52	2.52	0	%100
30	M56	Z	-1.455	-1.455	0	%100
31	MP2A	X	2.903	2.903	0	%100
32	MP2A	Z	-1.676	-1.676	0	%100
33	MP3A	X	2.903	2.903	0	%100
34	MP3A	Z	-1.676	-1.676	0	%100
35	MP4A	X	2.903	2.903	0	%100
36	MP4A	Z	-1.676	-1.676	0	%100
37	MP1A	X	3.214	3.214	0	%100
38	MP1A	Z	-1.856	-1.856	0	%100
39	MP3C	X	2.903	2.903	0	%100
40	MP3C	Z	-1.676	-1.676	0	%100
41	MP4C	X	2.903	2.903	0	%100
42	MP4C	Z	-1.676	-1.676	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
43	MP5C	X	2.903	2.903	0	%100
44	MP5C	Z	-1.676	-1.676	0	%100
45	MP2C	X	3.214	3.214	0	%100
46	MP2C	Z	-1.856	-1.856	0	%100
47	MP2B	X	2.903	2.903	0	%100
48	MP2B	Z	-1.676	-1.676	0	%100
49	MP3B	X	2.903	2.903	0	%100
50	MP3B	Z	-1.676	-1.676	0	%100
51	MP4B	X	2.903	2.903	0	%100
52	MP4B	Z	-1.676	-1.676	0	%100
53	MP1B	X	3.214	3.214	0	%100
54	MP1B	Z	-1.856	-1.856	0	%100
55	MP1C	X	2.903	2.903	0	%100
56	MP1C	Z	-1.676	-1.676	0	%100
57	LIGHT	X	1.689	1.689	0	%100
58	LIGHT	Z	-.975	-.975	0	%100
59	OVP	X	2.39	2.39	0	%100
60	OVP	Z	-1.38	-1.38	0	%100
61	M58	X	.804	.804	0	%100
62	M58	Z	-.464	-.464	0	%100
63	M65	X	3.214	3.214	0	%100
64	M65	Z	-1.856	-1.856	0	%100
65	M66	X	.804	.804	0	%100
66	M66	Z	-.464	-.464	0	%100
67	M67	X	3.097	3.097	0	%100
68	M67	Z	-1.788	-1.788	0	%100
69	M68	X	.774	.774	0	%100
70	M68	Z	-.447	-.447	0	%100
71	M69	X	.774	.774	0	%100
72	M69	Z	-.447	-.447	0	%100
73	M78	X	1.772	1.772	0	%100
74	M78	Z	-1.023	-1.023	0	%100
75	M79	X	3.828	3.828	0	%100
76	M79	Z	-2.21	-2.21	0	%100
77	M80	X	3.828	3.828	0	%100
78	M80	Z	-2.21	-2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.106	3.106	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.88	3.88	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	4.579	4.579	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.145	1.145	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	1.145	1.145	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	3.93	3.93	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	3.93	3.93	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.777	.777	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]	
20	M38	Z	0	0	%100	
21	M39A	X	3.93	3.93	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	3.93	3.93	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.777	.777	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.97	.97	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.97	.97	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	3.352	3.352	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	3.352	3.352	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	3.352	3.352	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	3.712	3.712	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	3.352	3.352	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	3.352	3.352	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	3.352	3.352	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	3.712	3.712	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	3.352	3.352	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	3.352	3.352	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	3.352	3.352	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	3.712	3.712	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	3.352	3.352	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	1.95	1.95	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	2.759	2.759	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	2.784	2.784	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	2.784	2.784	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	2.682	2.682	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	2.682	2.682	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	2.838	2.838	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	2.838	2.838	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	5.212	5.212	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.017	2.017	0	%100
2	M1	Z	1.165	1.165	0	%100
3	M2	X	2.52	2.52	0	%100
4	M2	Z	1.455	1.455	0	%100
5	M5	X	2.974	2.974	0	%100
6	M5	Z	1.717	1.717	0	%100
7	M6	X	2.974	2.974	0	%100
8	M6	Z	1.717	1.717	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	1.135	1.135	0	%100
12	M6A	Z	.655	.655	0	%100
13	M7A	X	1.135	1.135	0	%100
14	M7A	Z	.655	.655	0	%100
15	M23A	X	1.135	1.135	0	%100
16	M23A	Z	.655	.655	0	%100
17	M24	X	1.135	1.135	0	%100
18	M24	Z	.655	.655	0	%100
19	M38	X	2.017	2.017	0	%100
20	M38	Z	1.165	1.165	0	%100
21	M39A	X	4.538	4.538	0	%100
22	M39A	Z	2.62	2.62	0	%100
23	M40	X	4.538	4.538	0	%100
24	M40	Z	2.62	2.62	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	2.52	2.52	0	%100
28	M55	Z	1.455	1.455	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	2.903	2.903	0	%100
32	MP2A	Z	1.676	1.676	0	%100
33	MP3A	X	2.903	2.903	0	%100
34	MP3A	Z	1.676	1.676	0	%100
35	MP4A	X	2.903	2.903	0	%100
36	MP4A	Z	1.676	1.676	0	%100
37	MP1A	X	3.214	3.214	0	%100
38	MP1A	Z	1.856	1.856	0	%100
39	MP3C	X	2.903	2.903	0	%100
40	MP3C	Z	1.676	1.676	0	%100
41	MP4C	X	2.903	2.903	0	%100
42	MP4C	Z	1.676	1.676	0	%100
43	MP5C	X	2.903	2.903	0	%100
44	MP5C	Z	1.676	1.676	0	%100
45	MP2C	X	3.214	3.214	0	%100
46	MP2C	Z	1.856	1.856	0	%100
47	MP2B	X	2.903	2.903	0	%100
48	MP2B	Z	1.676	1.676	0	%100
49	MP3B	X	2.903	2.903	0	%100
50	MP3B	Z	1.676	1.676	0	%100
51	MP4B	X	2.903	2.903	0	%100
52	MP4B	Z	1.676	1.676	0	%100
53	MP1B	X	3.214	3.214	0	%100
54	MP1B	Z	1.856	1.856	0	%100
55	MP1C	X	2.903	2.903	0	%100
56	MP1C	Z	1.676	1.676	0	%100
57	LIGHT	X	1.689	1.689	0	%100
58	LIGHT	Z	.975	.975	0	%100
59	OVP	X	2.39	2.39	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	OVP	Z	1.38	1.38	0	%100
61	M58	X	.804	.804	0	%100
62	M58	Z	.464	.464	0	%100
63	M65	X	.804	.804	0	%100
64	M65	Z	.464	.464	0	%100
65	M66	X	3.214	3.214	0	%100
66	M66	Z	1.856	1.856	0	%100
67	M67	X	.774	.774	0	%100
68	M67	Z	.447	.447	0	%100
69	M68	X	3.097	3.097	0	%100
70	M68	Z	1.788	1.788	0	%100
71	M69	X	.774	.774	0	%100
72	M69	Z	.447	.447	0	%100
73	M78	X	3.828	3.828	0	%100
74	M78	Z	2.21	2.21	0	%100
75	M79	X	1.772	1.772	0	%100
76	M79	Z	1.023	1.023	0	%100
77	M80	X	3.828	3.828	0	%100
78	M80	Z	2.21	2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.388	.388	0	%100
2	M1	Z	.672	.672	0	%100
3	M2	X	.485	.485	0	%100
4	M2	Z	.84	.84	0	%100
5	M5	X	.572	.572	0	%100
6	M5	Z	.991	.991	0	%100
7	M6	X	2.29	2.29	0	%100
8	M6	Z	3.966	3.966	0	%100
9	M7	X	.572	.572	0	%100
10	M7	Z	.991	.991	0	%100
11	M6A	X	1.965	1.965	0	%100
12	M6A	Z	3.404	3.404	0	%100
13	M7A	X	1.965	1.965	0	%100
14	M7A	Z	3.404	3.404	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	1.553	1.553	0	%100
20	M38	Z	2.69	2.69	0	%100
21	M39A	X	1.965	1.965	0	%100
22	M39A	Z	3.404	3.404	0	%100
23	M40	X	1.965	1.965	0	%100
24	M40	Z	3.404	3.404	0	%100
25	M54	X	.388	.388	0	%100
26	M54	Z	.672	.672	0	%100
27	M55	X	1.94	1.94	0	%100
28	M55	Z	3.36	3.36	0	%100
29	M56	X	.485	.485	0	%100
30	M56	Z	.84	.84	0	%100
31	MP2A	X	1.676	1.676	0	%100
32	MP2A	Z	2.903	2.903	0	%100
33	MP3A	X	1.676	1.676	0	%100
34	MP3A	Z	2.903	2.903	0	%100
35	MP4A	X	1.676	1.676	0	%100
36	MP4A	Z	2.903	2.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	1.856	1.856	0	%100
38	MP1A	Z	3.214	3.214	0	%100
39	MP3C	X	1.676	1.676	0	%100
40	MP3C	Z	2.903	2.903	0	%100
41	MP4C	X	1.676	1.676	0	%100
42	MP4C	Z	2.903	2.903	0	%100
43	MP5C	X	1.676	1.676	0	%100
44	MP5C	Z	2.903	2.903	0	%100
45	MP2C	X	1.856	1.856	0	%100
46	MP2C	Z	3.214	3.214	0	%100
47	MP2B	X	1.676	1.676	0	%100
48	MP2B	Z	2.903	2.903	0	%100
49	MP3B	X	1.676	1.676	0	%100
50	MP3B	Z	2.903	2.903	0	%100
51	MP4B	X	1.676	1.676	0	%100
52	MP4B	Z	2.903	2.903	0	%100
53	MP1B	X	1.856	1.856	0	%100
54	MP1B	Z	3.214	3.214	0	%100
55	MP1C	X	1.676	1.676	0	%100
56	MP1C	Z	2.903	2.903	0	%100
57	LIGHT	X	.975	.975	0	%100
58	LIGHT	Z	1.689	1.689	0	%100
59	OVP	X	1.38	1.38	0	%100
60	OVP	Z	2.39	2.39	0	%100
61	M58	X	1.392	1.392	0	%100
62	M58	Z	2.411	2.411	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	1.392	1.392	0	%100
66	M66	Z	2.411	2.411	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	1.341	1.341	0	%100
70	M68	Z	2.323	2.323	0	%100
71	M69	X	1.341	1.341	0	%100
72	M69	Z	2.323	2.323	0	%100
73	M78	X	2.606	2.606	0	%100
74	M78	Z	4.514	4.514	0	%100
75	M79	X	1.419	1.419	0	%100
76	M79	Z	2.458	2.458	0	%100
77	M80	X	1.419	1.419	0	%100
78	M80	Z	2.458	2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.435	3.435	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.435	3.435	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	5.24	5.24	0	%100
13	M7A	X	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
14	M7A	Z	5.24	5.24	0 %100
15	M23A	X	0	0	0 %100
16	M23A	Z	1.31	1.31	0 %100
17	M24	X	0	0	0 %100
18	M24	Z	1.31	1.31	0 %100
19	M38	X	0	0	0 %100
20	M38	Z	2.33	2.33	0 %100
21	M39A	X	0	0	0 %100
22	M39A	Z	1.31	1.31	0 %100
23	M40	X	0	0	0 %100
24	M40	Z	1.31	1.31	0 %100
25	M54	X	0	0	0 %100
26	M54	Z	2.33	2.33	0 %100
27	M55	X	0	0	0 %100
28	M55	Z	2.91	2.91	0 %100
29	M56	X	0	0	0 %100
30	M56	Z	2.91	2.91	0 %100
31	MP2A	X	0	0	0 %100
32	MP2A	Z	3.352	3.352	0 %100
33	MP3A	X	0	0	0 %100
34	MP3A	Z	3.352	3.352	0 %100
35	MP4A	X	0	0	0 %100
36	MP4A	Z	3.352	3.352	0 %100
37	MP1A	X	0	0	0 %100
38	MP1A	Z	3.712	3.712	0 %100
39	MP3C	X	0	0	0 %100
40	MP3C	Z	3.352	3.352	0 %100
41	MP4C	X	0	0	0 %100
42	MP4C	Z	3.352	3.352	0 %100
43	MP5C	X	0	0	0 %100
44	MP5C	Z	3.352	3.352	0 %100
45	MP2C	X	0	0	0 %100
46	MP2C	Z	3.712	3.712	0 %100
47	MP2B	X	0	0	0 %100
48	MP2B	Z	3.352	3.352	0 %100
49	MP3B	X	0	0	0 %100
50	MP3B	Z	3.352	3.352	0 %100
51	MP4B	X	0	0	0 %100
52	MP4B	Z	3.352	3.352	0 %100
53	MP1B	X	0	0	0 %100
54	MP1B	Z	3.712	3.712	0 %100
55	MP1C	X	0	0	0 %100
56	MP1C	Z	3.352	3.352	0 %100
57	LIGHT	X	0	0	0 %100
58	LIGHT	Z	1.95	1.95	0 %100
59	OVP	X	0	0	0 %100
60	OVP	Z	2.759	2.759	0 %100
61	M58	X	0	0	0 %100
62	M58	Z	3.712	3.712	0 %100
63	M65	X	0	0	0 %100
64	M65	Z	.928	.928	0 %100
65	M66	X	0	0	0 %100
66	M66	Z	.928	.928	0 %100
67	M67	X	0	0	0 %100
68	M67	Z	.894	.894	0 %100
69	M68	X	0	0	0 %100
70	M68	Z	.894	.894	0 %100
71	M69	X	0	0	0 %100
72	M69	Z	3.577	3.577	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
73	M78	X	0	0	0	%100
74	M78	Z	4.421	4.421	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	4.421	4.421	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	2.046	2.046	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.388	-.388	0	%100
2	M1	Z	.672	.672	0	%100
3	M2	X	-.485	-.485	0	%100
4	M2	Z	.84	.84	0	%100
5	M5	X	-.572	-.572	0	%100
6	M5	Z	.991	.991	0	%100
7	M6	X	-.572	-.572	0	%100
8	M6	Z	.991	.991	0	%100
9	M7	X	-2.29	-2.29	0	%100
10	M7	Z	3.966	3.966	0	%100
11	M6A	X	-1.965	-1.965	0	%100
12	M6A	Z	3.404	3.404	0	%100
13	M7A	X	-1.965	-1.965	0	%100
14	M7A	Z	3.404	3.404	0	%100
15	M23A	X	-1.965	-1.965	0	%100
16	M23A	Z	3.404	3.404	0	%100
17	M24	X	-1.965	-1.965	0	%100
18	M24	Z	3.404	3.404	0	%100
19	M38	X	-.388	-.388	0	%100
20	M38	Z	.672	.672	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-1.553	-1.553	0	%100
26	M54	Z	2.69	2.69	0	%100
27	M55	X	-.485	-.485	0	%100
28	M55	Z	.84	.84	0	%100
29	M56	X	-1.94	-1.94	0	%100
30	M56	Z	3.36	3.36	0	%100
31	MP2A	X	-1.676	-1.676	0	%100
32	MP2A	Z	2.903	2.903	0	%100
33	MP3A	X	-1.676	-1.676	0	%100
34	MP3A	Z	2.903	2.903	0	%100
35	MP4A	X	-1.676	-1.676	0	%100
36	MP4A	Z	2.903	2.903	0	%100
37	MP1A	X	-1.856	-1.856	0	%100
38	MP1A	Z	3.214	3.214	0	%100
39	MP3C	X	-1.676	-1.676	0	%100
40	MP3C	Z	2.903	2.903	0	%100
41	MP4C	X	-1.676	-1.676	0	%100
42	MP4C	Z	2.903	2.903	0	%100
43	MP5C	X	-1.676	-1.676	0	%100
44	MP5C	Z	2.903	2.903	0	%100
45	MP2C	X	-1.856	-1.856	0	%100
46	MP2C	Z	3.214	3.214	0	%100
47	MP2B	X	-1.676	-1.676	0	%100
48	MP2B	Z	2.903	2.903	0	%100
49	MP3B	X	-1.676	-1.676	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
50	MP3B	Z	2.903	2.903	0	%100
51	MP4B	X	-1.676	-1.676	0	%100
52	MP4B	Z	2.903	2.903	0	%100
53	MP1B	X	-1.856	-1.856	0	%100
54	MP1B	Z	3.214	3.214	0	%100
55	MP1C	X	-1.676	-1.676	0	%100
56	MP1C	Z	2.903	2.903	0	%100
57	LIGHT	X	-.975	-.975	0	%100
58	LIGHT	Z	1.689	1.689	0	%100
59	OVP	X	-1.38	-1.38	0	%100
60	OVP	Z	2.39	2.39	0	%100
61	M58	X	-1.392	-1.392	0	%100
62	M58	Z	2.411	2.411	0	%100
63	M65	X	-1.392	-1.392	0	%100
64	M65	Z	2.411	2.411	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-1.341	-1.341	0	%100
68	M67	Z	2.323	2.323	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	-1.341	-1.341	0	%100
72	M69	Z	2.323	2.323	0	%100
73	M78	X	-1.419	-1.419	0	%100
74	M78	Z	2.458	2.458	0	%100
75	M79	X	-2.606	-2.606	0	%100
76	M79	Z	4.514	4.514	0	%100
77	M80	X	-1.419	-1.419	0	%100
78	M80	Z	2.458	2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.017	-2.017	0	%100
2	M1	Z	1.165	1.165	0	%100
3	M2	X	-2.52	-2.52	0	%100
4	M2	Z	1.455	1.455	0	%100
5	M5	X	-2.974	-2.974	0	%100
6	M5	Z	1.717	1.717	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-2.974	-2.974	0	%100
10	M7	Z	1.717	1.717	0	%100
11	M6A	X	-1.135	-1.135	0	%100
12	M6A	Z	.655	.655	0	%100
13	M7A	X	-1.135	-1.135	0	%100
14	M7A	Z	.655	.655	0	%100
15	M23A	X	-4.538	-4.538	0	%100
16	M23A	Z	2.62	2.62	0	%100
17	M24	X	-4.538	-4.538	0	%100
18	M24	Z	2.62	2.62	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-1.135	-1.135	0	%100
22	M39A	Z	.655	.655	0	%100
23	M40	X	-1.135	-1.135	0	%100
24	M40	Z	.655	.655	0	%100
25	M54	X	-2.017	-2.017	0	%100
26	M54	Z	1.165	1.165	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-2.52	-2.52	0	%100
30	M56	Z	1.455	1.455	0	%100
31	MP2A	X	-2.903	-2.903	0	%100
32	MP2A	Z	1.676	1.676	0	%100
33	MP3A	X	-2.903	-2.903	0	%100
34	MP3A	Z	1.676	1.676	0	%100
35	MP4A	X	-2.903	-2.903	0	%100
36	MP4A	Z	1.676	1.676	0	%100
37	MP1A	X	-3.214	-3.214	0	%100
38	MP1A	Z	1.856	1.856	0	%100
39	MP3C	X	-2.903	-2.903	0	%100
40	MP3C	Z	1.676	1.676	0	%100
41	MP4C	X	-2.903	-2.903	0	%100
42	MP4C	Z	1.676	1.676	0	%100
43	MP5C	X	-2.903	-2.903	0	%100
44	MP5C	Z	1.676	1.676	0	%100
45	MP2C	X	-3.214	-3.214	0	%100
46	MP2C	Z	1.856	1.856	0	%100
47	MP2B	X	-2.903	-2.903	0	%100
48	MP2B	Z	1.676	1.676	0	%100
49	MP3B	X	-2.903	-2.903	0	%100
50	MP3B	Z	1.676	1.676	0	%100
51	MP4B	X	-2.903	-2.903	0	%100
52	MP4B	Z	1.676	1.676	0	%100
53	MP1B	X	-3.214	-3.214	0	%100
54	MP1B	Z	1.856	1.856	0	%100
55	MP1C	X	-2.903	-2.903	0	%100
56	MP1C	Z	1.676	1.676	0	%100
57	LIGHT	X	-1.689	-1.689	0	%100
58	LIGHT	Z	.975	.975	0	%100
59	OVP	X	-2.39	-2.39	0	%100
60	OVP	Z	1.38	1.38	0	%100
61	M58	X	-.804	-.804	0	%100
62	M58	Z	.464	.464	0	%100
63	M65	X	-3.214	-3.214	0	%100
64	M65	Z	1.856	1.856	0	%100
65	M66	X	-.804	-.804	0	%100
66	M66	Z	.464	.464	0	%100
67	M67	X	-3.097	-3.097	0	%100
68	M67	Z	1.788	1.788	0	%100
69	M68	X	-.774	-.774	0	%100
70	M68	Z	.447	.447	0	%100
71	M69	X	-.774	-.774	0	%100
72	M69	Z	.447	.447	0	%100
73	M78	X	-1.772	-1.772	0	%100
74	M78	Z	1.023	1.023	0	%100
75	M79	X	-3.828	-3.828	0	%100
76	M79	Z	2.21	2.21	0	%100
77	M80	X	-3.828	-3.828	0	%100
78	M80	Z	2.21	2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.106	-3.106	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.88	-3.88	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	0	0	0	%100
5	M5	X	-4.579	-4.579	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.145	-1.145	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-1.145	-1.145	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-3.93	-3.93	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-3.93	-3.93	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.777	-.777	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-3.93	-3.93	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-3.93	-3.93	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.777	-.777	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.97	-.97	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.97	-.97	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-3.352	-3.352	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-3.352	-3.352	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-3.352	-3.352	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	-3.712	-3.712	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	-3.352	-3.352	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	-3.352	-3.352	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	-3.352	-3.352	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	-3.712	-3.712	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	-3.352	-3.352	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-3.352	-3.352	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-3.352	-3.352	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	-3.712	-3.712	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	-3.352	-3.352	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	-1.95	-1.95	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	-2.759	-2.759	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
63	M65	X	-2.784	-2.784	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-2.784	-2.784	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-2.682	-2.682	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-2.682	-2.682	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	-2.838	-2.838	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	-2.838	-2.838	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	-5.212	-5.212	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.017	-2.017	0	%100
2	M1	Z	-1.165	-1.165	0	%100
3	M2	X	-2.52	-2.52	0	%100
4	M2	Z	-1.455	-1.455	0	%100
5	M5	X	-2.974	-2.974	0	%100
6	M5	Z	-1.717	-1.717	0	%100
7	M6	X	-2.974	-2.974	0	%100
8	M6	Z	-1.717	-1.717	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-1.135	-1.135	0	%100
12	M6A	Z	-.655	-.655	0	%100
13	M7A	X	-1.135	-1.135	0	%100
14	M7A	Z	-.655	-.655	0	%100
15	M23A	X	-1.135	-1.135	0	%100
16	M23A	Z	-.655	-.655	0	%100
17	M24	X	-1.135	-1.135	0	%100
18	M24	Z	-.655	-.655	0	%100
19	M38	X	-2.017	-2.017	0	%100
20	M38	Z	-1.165	-1.165	0	%100
21	M39A	X	-4.538	-4.538	0	%100
22	M39A	Z	-2.62	-2.62	0	%100
23	M40	X	-4.538	-4.538	0	%100
24	M40	Z	-2.62	-2.62	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-2.52	-2.52	0	%100
28	M55	Z	-1.455	-1.455	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-2.903	-2.903	0	%100
32	MP2A	Z	-1.676	-1.676	0	%100
33	MP3A	X	-2.903	-2.903	0	%100
34	MP3A	Z	-1.676	-1.676	0	%100
35	MP4A	X	-2.903	-2.903	0	%100
36	MP4A	Z	-1.676	-1.676	0	%100
37	MP1A	X	-3.214	-3.214	0	%100
38	MP1A	Z	-1.856	-1.856	0	%100
39	MP3C	X	-2.903	-2.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
40	MP3C	Z	-1.676	-1.676	0	%100
41	MP4C	X	-2.903	-2.903	0	%100
42	MP4C	Z	-1.676	-1.676	0	%100
43	MP5C	X	-2.903	-2.903	0	%100
44	MP5C	Z	-1.676	-1.676	0	%100
45	MP2C	X	-3.214	-3.214	0	%100
46	MP2C	Z	-1.856	-1.856	0	%100
47	MP2B	X	-2.903	-2.903	0	%100
48	MP2B	Z	-1.676	-1.676	0	%100
49	MP3B	X	-2.903	-2.903	0	%100
50	MP3B	Z	-1.676	-1.676	0	%100
51	MP4B	X	-2.903	-2.903	0	%100
52	MP4B	Z	-1.676	-1.676	0	%100
53	MP1B	X	-3.214	-3.214	0	%100
54	MP1B	Z	-1.856	-1.856	0	%100
55	MP1C	X	-2.903	-2.903	0	%100
56	MP1C	Z	-1.676	-1.676	0	%100
57	LIGHT	X	-1.689	-1.689	0	%100
58	LIGHT	Z	-.975	-.975	0	%100
59	OVP	X	-2.39	-2.39	0	%100
60	OVP	Z	-1.38	-1.38	0	%100
61	M58	X	-.804	-.804	0	%100
62	M58	Z	-.464	-.464	0	%100
63	M65	X	-.804	-.804	0	%100
64	M65	Z	-.464	-.464	0	%100
65	M66	X	-3.214	-3.214	0	%100
66	M66	Z	-1.856	-1.856	0	%100
67	M67	X	-.774	-.774	0	%100
68	M67	Z	-.447	-.447	0	%100
69	M68	X	-3.097	-3.097	0	%100
70	M68	Z	-1.788	-1.788	0	%100
71	M69	X	-.774	-.774	0	%100
72	M69	Z	-.447	-.447	0	%100
73	M78	X	-3.828	-3.828	0	%100
74	M78	Z	-2.21	-2.21	0	%100
75	M79	X	-1.772	-1.772	0	%100
76	M79	Z	-1.023	-1.023	0	%100
77	M80	X	-3.828	-3.828	0	%100
78	M80	Z	-2.21	-2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.388	-.388	0	%100
2	M1	Z	-.672	-.672	0	%100
3	M2	X	-.485	-.485	0	%100
4	M2	Z	-.84	-.84	0	%100
5	M5	X	-.572	-.572	0	%100
6	M5	Z	-.991	-.991	0	%100
7	M6	X	-2.29	-2.29	0	%100
8	M6	Z	-3.966	-3.966	0	%100
9	M7	X	-.572	-.572	0	%100
10	M7	Z	-.991	-.991	0	%100
11	M6A	X	-1.965	-1.965	0	%100
12	M6A	Z	-3.404	-3.404	0	%100
13	M7A	X	-1.965	-1.965	0	%100
14	M7A	Z	-3.404	-3.404	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
17	M24	X	0	0	%100
18	M24	Z	0	0	%100
19	M38	X	-1.553	-1.553	0
20	M38	Z	-2.69	-2.69	0
21	M39A	X	-1.965	-1.965	0
22	M39A	Z	-3.404	-3.404	0
23	M40	X	-1.965	-1.965	0
24	M40	Z	-3.404	-3.404	0
25	M54	X	-.388	-.388	0
26	M54	Z	-.672	-.672	0
27	M55	X	-1.94	-1.94	0
28	M55	Z	-3.36	-3.36	0
29	M56	X	-.485	-.485	0
30	M56	Z	-.84	-.84	0
31	MP2A	X	-1.676	-1.676	0
32	MP2A	Z	-2.903	-2.903	0
33	MP3A	X	-1.676	-1.676	0
34	MP3A	Z	-2.903	-2.903	0
35	MP4A	X	-1.676	-1.676	0
36	MP4A	Z	-2.903	-2.903	0
37	MP1A	X	-1.856	-1.856	0
38	MP1A	Z	-3.214	-3.214	0
39	MP3C	X	-1.676	-1.676	0
40	MP3C	Z	-2.903	-2.903	0
41	MP4C	X	-1.676	-1.676	0
42	MP4C	Z	-2.903	-2.903	0
43	MP5C	X	-1.676	-1.676	0
44	MP5C	Z	-2.903	-2.903	0
45	MP2C	X	-1.856	-1.856	0
46	MP2C	Z	-3.214	-3.214	0
47	MP2B	X	-1.676	-1.676	0
48	MP2B	Z	-2.903	-2.903	0
49	MP3B	X	-1.676	-1.676	0
50	MP3B	Z	-2.903	-2.903	0
51	MP4B	X	-1.676	-1.676	0
52	MP4B	Z	-2.903	-2.903	0
53	MP1B	X	-1.856	-1.856	0
54	MP1B	Z	-3.214	-3.214	0
55	MP1C	X	-1.676	-1.676	0
56	MP1C	Z	-2.903	-2.903	0
57	LIGHT	X	-.975	-.975	0
58	LIGHT	Z	-1.689	-1.689	0
59	OVP	X	-1.38	-1.38	0
60	OVP	Z	-2.39	-2.39	0
61	M58	X	-1.392	-1.392	0
62	M58	Z	-2.411	-2.411	0
63	M65	X	0	0	0
64	M65	Z	0	0	0
65	M66	X	-1.392	-1.392	0
66	M66	Z	-2.411	-2.411	0
67	M67	X	0	0	0
68	M67	Z	0	0	0
69	M68	X	-1.341	-1.341	0
70	M68	Z	-2.323	-2.323	0
71	M69	X	-1.341	-1.341	0
72	M69	Z	-2.323	-2.323	0
73	M78	X	-2.606	-2.606	0
74	M78	Z	-4.514	-4.514	0
75	M79	X	-1.419	-1.419	0

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
76	M79	Z	-2.458	-2.458	0	%100
77	M80	X	-1.419	-1.419	0	%100
78	M80	Z	-2.458	-2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-0.825	-0.825	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-0.825	-0.825	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-1.295	-1.295	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-1.295	-1.295	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-0.324	-0.324	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	-0.324	-0.324	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-0.555	-0.555	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-0.324	-0.324	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-0.324	-0.324	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-0.555	-0.555	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-0.723	-0.723	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	-0.723	-0.723	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-0.615	-0.615	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-0.615	-0.615	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-0.615	-0.615	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-0.745	-0.745	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	-0.615	-0.615	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	-0.615	-0.615	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	-0.615	-0.615	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	-0.745	-0.745	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	-0.615	-0.615	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-0.615	-0.615	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-0.615	-0.615	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-.745	-.745	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-.615	-.615	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	-.308	-.308	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	-.503	-.503	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-.745	-.745	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-.186	-.186	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-.186	-.186	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	-.22	-.22	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	-.22	-.22	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	-.882	-.882	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	-1.108	-1.108	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	-1.108	-1.108	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	-.577	-.577	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.093	.093	0	%100
2	M1	Z	-.16	-.16	0	%100
3	M2	X	.12	.12	0	%100
4	M2	Z	-.209	-.209	0	%100
5	M5	X	.138	.138	0	%100
6	M5	Z	-.238	-.238	0	%100
7	M6	X	.138	.138	0	%100
8	M6	Z	-.238	-.238	0	%100
9	M7	X	.55	.55	0	%100
10	M7	Z	-.953	-.953	0	%100
11	M6A	X	.486	.486	0	%100
12	M6A	Z	-.841	-.841	0	%100
13	M7A	X	.486	.486	0	%100
14	M7A	Z	-.841	-.841	0	%100
15	M23A	X	.486	.486	0	%100
16	M23A	Z	-.841	-.841	0	%100
17	M24	X	.486	.486	0	%100
18	M24	Z	-.841	-.841	0	%100
19	M38	X	.093	.093	0	%100
20	M38	Z	-.16	-.16	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.37	.37	0	%100
26	M54	Z	-.641	-.641	0	%100
27	M55	X	.12	.12	0	%100
28	M55	Z	-.209	-.209	0	%100
29	M56	X	.482	.482	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
30	M56	Z	-.835	-.835	0	%100
31	MP2A	X	.308	.308	0	%100
32	MP2A	Z	-.533	-.533	0	%100
33	MP3A	X	.308	.308	0	%100
34	MP3A	Z	-.533	-.533	0	%100
35	MP4A	X	.308	.308	0	%100
36	MP4A	Z	-.533	-.533	0	%100
37	MP1A	X	.372	.372	0	%100
38	MP1A	Z	-.645	-.645	0	%100
39	MP3C	X	.308	.308	0	%100
40	MP3C	Z	-.533	-.533	0	%100
41	MP4C	X	.308	.308	0	%100
42	MP4C	Z	-.533	-.533	0	%100
43	MP5C	X	.308	.308	0	%100
44	MP5C	Z	-.533	-.533	0	%100
45	MP2C	X	.372	.372	0	%100
46	MP2C	Z	-.645	-.645	0	%100
47	MP2B	X	.308	.308	0	%100
48	MP2B	Z	-.533	-.533	0	%100
49	MP3B	X	.308	.308	0	%100
50	MP3B	Z	-.533	-.533	0	%100
51	MP4B	X	.308	.308	0	%100
52	MP4B	Z	-.533	-.533	0	%100
53	MP1B	X	.372	.372	0	%100
54	MP1B	Z	-.645	-.645	0	%100
55	MP1C	X	.308	.308	0	%100
56	MP1C	Z	-.533	-.533	0	%100
57	LIGHT	X	.154	.154	0	%100
58	LIGHT	Z	-.266	-.266	0	%100
59	OVP	X	.251	.251	0	%100
60	OVP	Z	-.436	-.436	0	%100
61	M58	X	.279	.279	0	%100
62	M58	Z	-.484	-.484	0	%100
63	M65	X	.279	.279	0	%100
64	M65	Z	-.484	-.484	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	.331	.331	0	%100
68	M67	Z	-.573	-.573	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	.331	.331	0	%100
72	M69	Z	-.573	-.573	0	%100
73	M78	X	.377	.377	0	%100
74	M78	Z	-.653	-.653	0	%100
75	M79	X	.642	.642	0	%100
76	M79	Z	-1.113	-1.113	0	%100
77	M80	X	.377	.377	0	%100
78	M80	Z	-.653	-.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.481	.481	0	%100
2	M1	Z	-.278	-.278	0	%100
3	M2	X	.626	.626	0	%100
4	M2	Z	-.361	-.361	0	%100
5	M5	X	.715	.715	0	%100
6	M5	Z	-.413	-.413	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.715	.715	0	%100
10	M7	Z	-.413	-.413	0	%100
11	M6A	X	.28	.28	0	%100
12	M6A	Z	-.162	-.162	0	%100
13	M7A	X	.28	.28	0	%100
14	M7A	Z	-.162	-.162	0	%100
15	M23A	X	1.121	1.121	0	%100
16	M23A	Z	-.647	-.647	0	%100
17	M24	X	1.121	1.121	0	%100
18	M24	Z	-.647	-.647	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	.28	.28	0	%100
22	M39A	Z	-.162	-.162	0	%100
23	M40	X	.28	.28	0	%100
24	M40	Z	-.162	-.162	0	%100
25	M54	X	.481	.481	0	%100
26	M54	Z	-.278	-.278	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.626	.626	0	%100
30	M56	Z	-.361	-.361	0	%100
31	MP2A	X	.533	.533	0	%100
32	MP2A	Z	-.308	-.308	0	%100
33	MP3A	X	.533	.533	0	%100
34	MP3A	Z	-.308	-.308	0	%100
35	MP4A	X	.533	.533	0	%100
36	MP4A	Z	-.308	-.308	0	%100
37	MP1A	X	.645	.645	0	%100
38	MP1A	Z	-.372	-.372	0	%100
39	MP3C	X	.533	.533	0	%100
40	MP3C	Z	-.308	-.308	0	%100
41	MP4C	X	.533	.533	0	%100
42	MP4C	Z	-.308	-.308	0	%100
43	MP5C	X	.533	.533	0	%100
44	MP5C	Z	-.308	-.308	0	%100
45	MP2C	X	.645	.645	0	%100
46	MP2C	Z	-.372	-.372	0	%100
47	MP2B	X	.533	.533	0	%100
48	MP2B	Z	-.308	-.308	0	%100
49	MP3B	X	.533	.533	0	%100
50	MP3B	Z	-.308	-.308	0	%100
51	MP4B	X	.533	.533	0	%100
52	MP4B	Z	-.308	-.308	0	%100
53	MP1B	X	.645	.645	0	%100
54	MP1B	Z	-.372	-.372	0	%100
55	MP1C	X	.533	.533	0	%100
56	MP1C	Z	-.308	-.308	0	%100
57	LIGHT	X	.266	.266	0	%100
58	LIGHT	Z	-.154	-.154	0	%100
59	OVP	X	.436	.436	0	%100
60	OVP	Z	-.251	-.251	0	%100
61	M58	X	.161	.161	0	%100
62	M58	Z	-.093	-.093	0	%100
63	M65	X	.645	.645	0	%100
64	M65	Z	-.372	-.372	0	%100
65	M66	X	.161	.161	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
66	M66	Z	-.093	-.093	0	%100
67	M67	X	.763	.763	0	%100
68	M67	Z	-.441	-.441	0	%100
69	M68	X	.191	.191	0	%100
70	M68	Z	-.11	-.11	0	%100
71	M69	X	.191	.191	0	%100
72	M69	Z	-.11	-.11	0	%100
73	M78	X	.5	.5	0	%100
74	M78	Z	-.288	-.288	0	%100
75	M79	X	.959	.959	0	%100
76	M79	Z	-.554	-.554	0	%100
77	M80	X	.959	.959	0	%100
78	M80	Z	-.554	-.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.74	.74	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.964	.964	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	1.101	1.101	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.275	.275	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.275	.275	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	.971	.971	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	.971	.971	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.185	.185	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	.971	.971	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	.971	.971	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.185	.185	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.241	.241	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.241	.241	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	.615	.615	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	.615	.615	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	.615	.615	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	.745	.745	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	.615	.615	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	.615	.615	0	%100
42	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
43	MP5C	X	.615	.615	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	.745	.745	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	.615	.615	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	.615	.615	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	.615	.615	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	.745	.745	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	.615	.615	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	.308	.308	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	.503	.503	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	.558	.558	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	.558	.558	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	.661	.661	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	.661	.661	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	.754	.754	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	.754	.754	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	1.285	1.285	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.481	.481	0	%100
2	M1	Z	.278	.278	0	%100
3	M2	X	.626	.626	0	%100
4	M2	Z	.361	.361	0	%100
5	M5	X	.715	.715	0	%100
6	M5	Z	.413	.413	0	%100
7	M6	X	.715	.715	0	%100
8	M6	Z	.413	.413	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	.28	.28	0	%100
12	M6A	Z	.162	.162	0	%100
13	M7A	X	.28	.28	0	%100
14	M7A	Z	.162	.162	0	%100
15	M23A	X	.28	.28	0	%100
16	M23A	Z	.162	.162	0	%100
17	M24	X	.28	.28	0	%100
18	M24	Z	.162	.162	0	%100
19	M38	X	.481	.481	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
20	M38	Z	.278	.278	0 %100
21	M39A	X	1.121	1.121	0 %100
22	M39A	Z	.647	.647	0 %100
23	M40	X	1.121	1.121	0 %100
24	M40	Z	.647	.647	0 %100
25	M54	X	0	0	0 %100
26	M54	Z	0	0	0 %100
27	M55	X	.626	.626	0 %100
28	M55	Z	.361	.361	0 %100
29	M56	X	0	0	0 %100
30	M56	Z	0	0	0 %100
31	MP2A	X	.533	.533	0 %100
32	MP2A	Z	.308	.308	0 %100
33	MP3A	X	.533	.533	0 %100
34	MP3A	Z	.308	.308	0 %100
35	MP4A	X	.533	.533	0 %100
36	MP4A	Z	.308	.308	0 %100
37	MP1A	X	.645	.645	0 %100
38	MP1A	Z	.372	.372	0 %100
39	MP3C	X	.533	.533	0 %100
40	MP3C	Z	.308	.308	0 %100
41	MP4C	X	.533	.533	0 %100
42	MP4C	Z	.308	.308	0 %100
43	MP5C	X	.533	.533	0 %100
44	MP5C	Z	.308	.308	0 %100
45	MP2C	X	.645	.645	0 %100
46	MP2C	Z	.372	.372	0 %100
47	MP2B	X	.533	.533	0 %100
48	MP2B	Z	.308	.308	0 %100
49	MP3B	X	.533	.533	0 %100
50	MP3B	Z	.308	.308	0 %100
51	MP4B	X	.533	.533	0 %100
52	MP4B	Z	.308	.308	0 %100
53	MP1B	X	.645	.645	0 %100
54	MP1B	Z	.372	.372	0 %100
55	MP1C	X	.533	.533	0 %100
56	MP1C	Z	.308	.308	0 %100
57	LIGHT	X	.266	.266	0 %100
58	LIGHT	Z	.154	.154	0 %100
59	OVP	X	.436	.436	0 %100
60	OVP	Z	.251	.251	0 %100
61	M58	X	.161	.161	0 %100
62	M58	Z	.093	.093	0 %100
63	M65	X	.161	.161	0 %100
64	M65	Z	.093	.093	0 %100
65	M66	X	.645	.645	0 %100
66	M66	Z	.372	.372	0 %100
67	M67	X	.191	.191	0 %100
68	M67	Z	.11	.11	0 %100
69	M68	X	.763	.763	0 %100
70	M68	Z	.441	.441	0 %100
71	M69	X	.191	.191	0 %100
72	M69	Z	.11	.11	0 %100
73	M78	X	.959	.959	0 %100
74	M78	Z	.554	.554	0 %100
75	M79	X	.5	.5	0 %100
76	M79	Z	.288	.288	0 %100
77	M80	X	.959	.959	0 %100
78	M80	Z	.554	.554	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.093	.093	0	%100
2	M1	Z	.16	.16	0	%100
3	M2	X	.12	.12	0	%100
4	M2	Z	.209	.209	0	%100
5	M5	X	.138	.138	0	%100
6	M5	Z	.238	.238	0	%100
7	M6	X	.55	.55	0	%100
8	M6	Z	.953	.953	0	%100
9	M7	X	.138	.138	0	%100
10	M7	Z	.238	.238	0	%100
11	M6A	X	.486	.486	0	%100
12	M6A	Z	.841	.841	0	%100
13	M7A	X	.486	.486	0	%100
14	M7A	Z	.841	.841	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.37	.37	0	%100
20	M38	Z	.641	.641	0	%100
21	M39A	X	.486	.486	0	%100
22	M39A	Z	.841	.841	0	%100
23	M40	X	.486	.486	0	%100
24	M40	Z	.841	.841	0	%100
25	M54	X	.093	.093	0	%100
26	M54	Z	.16	.16	0	%100
27	M55	X	.482	.482	0	%100
28	M55	Z	.835	.835	0	%100
29	M56	X	.12	.12	0	%100
30	M56	Z	.209	.209	0	%100
31	MP2A	X	.308	.308	0	%100
32	MP2A	Z	.533	.533	0	%100
33	MP3A	X	.308	.308	0	%100
34	MP3A	Z	.533	.533	0	%100
35	MP4A	X	.308	.308	0	%100
36	MP4A	Z	.533	.533	0	%100
37	MP1A	X	.372	.372	0	%100
38	MP1A	Z	.645	.645	0	%100
39	MP3C	X	.308	.308	0	%100
40	MP3C	Z	.533	.533	0	%100
41	MP4C	X	.308	.308	0	%100
42	MP4C	Z	.533	.533	0	%100
43	MP5C	X	.308	.308	0	%100
44	MP5C	Z	.533	.533	0	%100
45	MP2C	X	.372	.372	0	%100
46	MP2C	Z	.645	.645	0	%100
47	MP2B	X	.308	.308	0	%100
48	MP2B	Z	.533	.533	0	%100
49	MP3B	X	.308	.308	0	%100
50	MP3B	Z	.533	.533	0	%100
51	MP4B	X	.308	.308	0	%100
52	MP4B	Z	.533	.533	0	%100
53	MP1B	X	.372	.372	0	%100
54	MP1B	Z	.645	.645	0	%100
55	MP1C	X	.308	.308	0	%100
56	MP1C	Z	.533	.533	0	%100
57	LIGHT	X	.154	.154	0	%100
58	LIGHT	Z	.266	.266	0	%100
59	OVP	X	.251	.251	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
60	OVP	Z	.436	.436	0	%100
61	M58	X	.279	.279	0	%100
62	M58	Z	.484	.484	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	.279	.279	0	%100
66	M66	Z	.484	.484	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	.331	.331	0	%100
70	M68	Z	.573	.573	0	%100
71	M69	X	.331	.331	0	%100
72	M69	Z	.573	.573	0	%100
73	M78	X	.642	.642	0	%100
74	M78	Z	1.113	1.113	0	%100
75	M79	X	.377	.377	0	%100
76	M79	Z	.653	.653	0	%100
77	M80	X	.377	.377	0	%100
78	M80	Z	.653	.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.825	.825	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.825	.825	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	1.295	1.295	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	1.295	1.295	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	.324	.324	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	.324	.324	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	.555	.555	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	.324	.324	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	.324	.324	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	.555	.555	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	.723	.723	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	.723	.723	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	.615	.615	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	.615	.615	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	.615	.615	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	0	0	0	%100
38	MP1A	Z	.745	.745	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	.615	.615	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	.615	.615	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	.615	.615	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	.745	.745	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	.615	.615	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	.615	.615	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	.615	.615	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	.745	.745	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	.615	.615	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	.308	.308	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	.503	.503	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	.745	.745	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	.186	.186	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	.186	.186	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	.22	.22	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	.22	.22	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	.882	.882	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	1.108	1.108	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	1.108	1.108	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	.577	.577	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.093	-.093	0	%100
2	M1	Z	.16	.16	0	%100
3	M2	X	-.12	-.12	0	%100
4	M2	Z	.209	.209	0	%100
5	M5	X	-.138	-.138	0	%100
6	M5	Z	.238	.238	0	%100
7	M6	X	-.138	-.138	0	%100
8	M6	Z	.238	.238	0	%100
9	M7	X	-.55	-.55	0	%100
10	M7	Z	.953	.953	0	%100
11	M6A	X	-.486	-.486	0	%100
12	M6A	Z	.841	.841	0	%100
13	M7A	X	-.486	-.486	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
14	M7A	Z	.841	.841	0 %100
15	M23A	X	-.486	-.486	0 %100
16	M23A	Z	.841	.841	0 %100
17	M24	X	-.486	-.486	0 %100
18	M24	Z	.841	.841	0 %100
19	M38	X	-.093	-.093	0 %100
20	M38	Z	.16	.16	0 %100
21	M39A	X	0	0	0 %100
22	M39A	Z	0	0	0 %100
23	M40	X	0	0	0 %100
24	M40	Z	0	0	0 %100
25	M54	X	-.37	-.37	0 %100
26	M54	Z	.641	.641	0 %100
27	M55	X	-.12	-.12	0 %100
28	M55	Z	.209	.209	0 %100
29	M56	X	-.482	-.482	0 %100
30	M56	Z	.835	.835	0 %100
31	MP2A	X	-.308	-.308	0 %100
32	MP2A	Z	.533	.533	0 %100
33	MP3A	X	-.308	-.308	0 %100
34	MP3A	Z	.533	.533	0 %100
35	MP4A	X	-.308	-.308	0 %100
36	MP4A	Z	.533	.533	0 %100
37	MP1A	X	-.372	-.372	0 %100
38	MP1A	Z	.645	.645	0 %100
39	MP3C	X	-.308	-.308	0 %100
40	MP3C	Z	.533	.533	0 %100
41	MP4C	X	-.308	-.308	0 %100
42	MP4C	Z	.533	.533	0 %100
43	MP5C	X	-.308	-.308	0 %100
44	MP5C	Z	.533	.533	0 %100
45	MP2C	X	-.372	-.372	0 %100
46	MP2C	Z	.645	.645	0 %100
47	MP2B	X	-.308	-.308	0 %100
48	MP2B	Z	.533	.533	0 %100
49	MP3B	X	-.308	-.308	0 %100
50	MP3B	Z	.533	.533	0 %100
51	MP4B	X	-.308	-.308	0 %100
52	MP4B	Z	.533	.533	0 %100
53	MP1B	X	-.372	-.372	0 %100
54	MP1B	Z	.645	.645	0 %100
55	MP1C	X	-.308	-.308	0 %100
56	MP1C	Z	.533	.533	0 %100
57	LIGHT	X	-.154	-.154	0 %100
58	LIGHT	Z	.266	.266	0 %100
59	OVP	X	-.251	-.251	0 %100
60	OVP	Z	.436	.436	0 %100
61	M58	X	-.279	-.279	0 %100
62	M58	Z	.484	.484	0 %100
63	M65	X	-.279	-.279	0 %100
64	M65	Z	.484	.484	0 %100
65	M66	X	0	0	0 %100
66	M66	Z	0	0	0 %100
67	M67	X	-.331	-.331	0 %100
68	M67	Z	.573	.573	0 %100
69	M68	X	0	0	0 %100
70	M68	Z	0	0	0 %100
71	M69	X	-.331	-.331	0 %100
72	M69	Z	.573	.573	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
73	M78	X	-.377	-.377	0	%100
74	M78	Z	.653	.653	0	%100
75	M79	X	-.642	-.642	0	%100
76	M79	Z	1.113	1.113	0	%100
77	M80	X	-.377	-.377	0	%100
78	M80	Z	.653	.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.481	-.481	0	%100
2	M1	Z	.278	.278	0	%100
3	M2	X	-.626	-.626	0	%100
4	M2	Z	.361	.361	0	%100
5	M5	X	-.715	-.715	0	%100
6	M5	Z	.413	.413	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.715	-.715	0	%100
10	M7	Z	.413	.413	0	%100
11	M6A	X	-.28	-.28	0	%100
12	M6A	Z	.162	.162	0	%100
13	M7A	X	-.28	-.28	0	%100
14	M7A	Z	.162	.162	0	%100
15	M23A	X	-1.121	-1.121	0	%100
16	M23A	Z	.647	.647	0	%100
17	M24	X	-1.121	-1.121	0	%100
18	M24	Z	.647	.647	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-.28	-.28	0	%100
22	M39A	Z	.162	.162	0	%100
23	M40	X	-.28	-.28	0	%100
24	M40	Z	.162	.162	0	%100
25	M54	X	-.481	-.481	0	%100
26	M54	Z	.278	.278	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.626	-.626	0	%100
30	M56	Z	.361	.361	0	%100
31	MP2A	X	-.533	-.533	0	%100
32	MP2A	Z	.308	.308	0	%100
33	MP3A	X	-.533	-.533	0	%100
34	MP3A	Z	.308	.308	0	%100
35	MP4A	X	-.533	-.533	0	%100
36	MP4A	Z	.308	.308	0	%100
37	MP1A	X	-.645	-.645	0	%100
38	MP1A	Z	.372	.372	0	%100
39	MP3C	X	-.533	-.533	0	%100
40	MP3C	Z	.308	.308	0	%100
41	MP4C	X	-.533	-.533	0	%100
42	MP4C	Z	.308	.308	0	%100
43	MP5C	X	-.533	-.533	0	%100
44	MP5C	Z	.308	.308	0	%100
45	MP2C	X	-.645	-.645	0	%100
46	MP2C	Z	.372	.372	0	%100
47	MP2B	X	-.533	-.533	0	%100
48	MP2B	Z	.308	.308	0	%100
49	MP3B	X	-.533	-.533	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
50	MP3B	Z	.308	.308	0	%100
51	MP4B	X	-.533	-.533	0	%100
52	MP4B	Z	.308	.308	0	%100
53	MP1B	X	-.645	-.645	0	%100
54	MP1B	Z	.372	.372	0	%100
55	MP1C	X	-.533	-.533	0	%100
56	MP1C	Z	.308	.308	0	%100
57	LIGHT	X	-.266	-.266	0	%100
58	LIGHT	Z	.154	.154	0	%100
59	OVP	X	-.436	-.436	0	%100
60	OVP	Z	.251	.251	0	%100
61	M58	X	-.161	-.161	0	%100
62	M58	Z	.093	.093	0	%100
63	M65	X	-.645	-.645	0	%100
64	M65	Z	.372	.372	0	%100
65	M66	X	-.161	-.161	0	%100
66	M66	Z	.093	.093	0	%100
67	M67	X	-.763	-.763	0	%100
68	M67	Z	.441	.441	0	%100
69	M68	X	-.191	-.191	0	%100
70	M68	Z	.11	.11	0	%100
71	M69	X	-.191	-.191	0	%100
72	M69	Z	.11	.11	0	%100
73	M78	X	-.5	-.5	0	%100
74	M78	Z	.288	.288	0	%100
75	M79	X	-.959	-.959	0	%100
76	M79	Z	.554	.554	0	%100
77	M80	X	-.959	-.959	0	%100
78	M80	Z	.554	.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.74	-.74	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.964	-.964	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-1.101	-1.101	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.275	-.275	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.275	-.275	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-.971	-.971	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-.971	-.971	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.185	-.185	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-.971	-.971	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-.971	-.971	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.185	-.185	0	%100
26	M54	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
27	M55	X	-.241	-.241	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.241	-.241	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-.615	-.615	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-.615	-.615	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-.615	-.615	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	-.745	-.745	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	-.615	-.615	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	-.615	-.615	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	-.615	-.615	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	-.745	-.745	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	-.615	-.615	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-.615	-.615	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-.615	-.615	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	-.745	-.745	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	-.615	-.615	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	-.308	-.308	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	-.503	-.503	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	-.558	-.558	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-.558	-.558	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-.661	-.661	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-.661	-.661	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	-.754	-.754	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	-.754	-.754	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	-1.285	-1.285	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.481	-.481	0	%100
2	M1	Z	-.278	-.278	0	%100
3	M2	X	-.626	-.626	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	-.361	-.361	0	%100
5	M5	X	-.715	-.715	0	%100
6	M5	Z	-.413	-.413	0	%100
7	M6	X	-.715	-.715	0	%100
8	M6	Z	-.413	-.413	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-.28	-.28	0	%100
12	M6A	Z	-.162	-.162	0	%100
13	M7A	X	-.28	-.28	0	%100
14	M7A	Z	-.162	-.162	0	%100
15	M23A	X	-.28	-.28	0	%100
16	M23A	Z	-.162	-.162	0	%100
17	M24	X	-.28	-.28	0	%100
18	M24	Z	-.162	-.162	0	%100
19	M38	X	-.481	-.481	0	%100
20	M38	Z	-.278	-.278	0	%100
21	M39A	X	-1.121	-1.121	0	%100
22	M39A	Z	-.647	-.647	0	%100
23	M40	X	-1.121	-1.121	0	%100
24	M40	Z	-.647	-.647	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.626	-.626	0	%100
28	M55	Z	-.361	-.361	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-.533	-.533	0	%100
32	MP2A	Z	-.308	-.308	0	%100
33	MP3A	X	-.533	-.533	0	%100
34	MP3A	Z	-.308	-.308	0	%100
35	MP4A	X	-.533	-.533	0	%100
36	MP4A	Z	-.308	-.308	0	%100
37	MP1A	X	-.645	-.645	0	%100
38	MP1A	Z	-.372	-.372	0	%100
39	MP3C	X	-.533	-.533	0	%100
40	MP3C	Z	-.308	-.308	0	%100
41	MP4C	X	-.533	-.533	0	%100
42	MP4C	Z	-.308	-.308	0	%100
43	MP5C	X	-.533	-.533	0	%100
44	MP5C	Z	-.308	-.308	0	%100
45	MP2C	X	-.645	-.645	0	%100
46	MP2C	Z	-.372	-.372	0	%100
47	MP2B	X	-.533	-.533	0	%100
48	MP2B	Z	-.308	-.308	0	%100
49	MP3B	X	-.533	-.533	0	%100
50	MP3B	Z	-.308	-.308	0	%100
51	MP4B	X	-.533	-.533	0	%100
52	MP4B	Z	-.308	-.308	0	%100
53	MP1B	X	-.645	-.645	0	%100
54	MP1B	Z	-.372	-.372	0	%100
55	MP1C	X	-.533	-.533	0	%100
56	MP1C	Z	-.308	-.308	0	%100
57	LIGHT	X	-.266	-.266	0	%100
58	LIGHT	Z	-.154	-.154	0	%100
59	OVP	X	-.436	-.436	0	%100
60	OVP	Z	-.251	-.251	0	%100
61	M58	X	-.161	-.161	0	%100
62	M58	Z	-.093	-.093	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
63	M65	X	-.161	-.161	0	%100
64	M65	Z	-.093	-.093	0	%100
65	M66	X	-.645	-.645	0	%100
66	M66	Z	-.372	-.372	0	%100
67	M67	X	-.191	-.191	0	%100
68	M67	Z	-.11	-.11	0	%100
69	M68	X	-.763	-.763	0	%100
70	M68	Z	-.441	-.441	0	%100
71	M69	X	-.191	-.191	0	%100
72	M69	Z	-.11	-.11	0	%100
73	M78	X	-.959	-.959	0	%100
74	M78	Z	-.554	-.554	0	%100
75	M79	X	-.5	-.5	0	%100
76	M79	Z	-.288	-.288	0	%100
77	M80	X	-.959	-.959	0	%100
78	M80	Z	-.554	-.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.093	-.093	0	%100
2	M1	Z	-.16	-.16	0	%100
3	M2	X	-.12	-.12	0	%100
4	M2	Z	-.209	-.209	0	%100
5	M5	X	-.138	-.138	0	%100
6	M5	Z	-.238	-.238	0	%100
7	M6	X	-.55	-.55	0	%100
8	M6	Z	-.953	-.953	0	%100
9	M7	X	-.138	-.138	0	%100
10	M7	Z	-.238	-.238	0	%100
11	M6A	X	-.486	-.486	0	%100
12	M6A	Z	-.841	-.841	0	%100
13	M7A	X	-.486	-.486	0	%100
14	M7A	Z	-.841	-.841	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.37	-.37	0	%100
20	M38	Z	-.641	-.641	0	%100
21	M39A	X	-.486	-.486	0	%100
22	M39A	Z	-.841	-.841	0	%100
23	M40	X	-.486	-.486	0	%100
24	M40	Z	-.841	-.841	0	%100
25	M54	X	-.093	-.093	0	%100
26	M54	Z	-.16	-.16	0	%100
27	M55	X	-.482	-.482	0	%100
28	M55	Z	-.835	-.835	0	%100
29	M56	X	-.12	-.12	0	%100
30	M56	Z	-.209	-.209	0	%100
31	MP2A	X	-.308	-.308	0	%100
32	MP2A	Z	-.533	-.533	0	%100
33	MP3A	X	-.308	-.308	0	%100
34	MP3A	Z	-.533	-.533	0	%100
35	MP4A	X	-.308	-.308	0	%100
36	MP4A	Z	-.533	-.533	0	%100
37	MP1A	X	-.372	-.372	0	%100
38	MP1A	Z	-.645	-.645	0	%100
39	MP3C	X	-.308	-.308	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
40	MP3C	Z	-533	-533	0 %100
41	MP4C	X	-308	-308	0 %100
42	MP4C	Z	-533	-533	0 %100
43	MP5C	X	-308	-308	0 %100
44	MP5C	Z	-533	-533	0 %100
45	MP2C	X	-372	-372	0 %100
46	MP2C	Z	-645	-645	0 %100
47	MP2B	X	-308	-308	0 %100
48	MP2B	Z	-533	-533	0 %100
49	MP3B	X	-308	-308	0 %100
50	MP3B	Z	-533	-533	0 %100
51	MP4B	X	-308	-308	0 %100
52	MP4B	Z	-533	-533	0 %100
53	MP1B	X	-372	-372	0 %100
54	MP1B	Z	-645	-645	0 %100
55	MP1C	X	-308	-308	0 %100
56	MP1C	Z	-533	-533	0 %100
57	LIGHT	X	-154	-154	0 %100
58	LIGHT	Z	-266	-266	0 %100
59	OVP	X	-251	-251	0 %100
60	OVP	Z	-436	-436	0 %100
61	M58	X	-279	-279	0 %100
62	M58	Z	-484	-484	0 %100
63	M65	X	0	0	0 %100
64	M65	Z	0	0	0 %100
65	M66	X	-279	-279	0 %100
66	M66	Z	-484	-484	0 %100
67	M67	X	0	0	0 %100
68	M67	Z	0	0	0 %100
69	M68	X	-331	-331	0 %100
70	M68	Z	-573	-573	0 %100
71	M69	X	-331	-331	0 %100
72	M69	Z	-573	-573	0 %100
73	M78	X	-642	-642	0 %100
74	M78	Z	-1.113	-1.113	0 %100
75	M79	X	-377	-377	0 %100
76	M79	Z	-653	-653	0 %100
77	M80	X	-377	-377	0 %100
78	M80	Z	-653	-653	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M6	Y	-503	-2.557	0 2
2	M6	Y	-2.557	-4.611	2 4
3	M7	Y	-6.901	-5.883	.8 4
4	M6A	Y	-4.147	-3.96	0 1.858
5	M6A	Y	-3.96	-4.609	1.858 3.717
6	M6A	Y	-4.609	-5.424	3.717 5.575
7	M6A	Y	-5.424	-5.57	5.575 7.433
8	M7A	Y	-.128	-3.326	0 2.052
9	M7A	Y	-3.326	-5.598	2.052 4.103
10	M7A	Y	-5.598	-5.577	4.103 6.155
11	M7A	Y	-5.577	-5.395	6.155 8.207
12	M7A	Y	-5.395	-4.573	8.207 10.258
13	M7A	Y	-4.573	-3.041	10.258 12.31
14	M7A	Y	-3.041	-.959	12.31 14.362
15	M5	Y	-2.947	-3.326	.8 4
16	M23A	Y	-5.618	-5.382	0 1.858

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
17	M23A	Y	-5.382	-4.547	1.858	3.717
18	M23A	Y	-4.547	-3.915	3.717	5.575
19	M23A	Y	-3.915	-4.086	5.575	7.433
20	M24	Y	-.915	-2.89	0	2.052
21	M24	Y	-2.89	-5.784	2.052	4.103
22	M24	Y	-5.784	-6.469	4.103	6.155
23	M24	Y	-6.469	-5.168	6.155	8.207
24	M24	Y	-5.168	-4.465	8.207	10.258
25	M24	Y	-4.465	-2.871	10.258	12.31
26	M24	Y	-2.871	-.933	12.31	14.362
27	M5	Y	-.503	-2.557	0	2
28	M5	Y	-2.557	-4.611	2	4
29	M6	Y	-4.016	-2.557	.8	4
30	M39A	Y	-4.147	-3.96	0	1.858
31	M39A	Y	-3.96	-4.609	1.858	3.717
32	M39A	Y	-4.609	-5.424	3.717	5.575
33	M39A	Y	-5.424	-5.57	5.575	7.433
34	M40	Y	-.128	-3.326	0	2.052
35	M40	Y	-3.326	-5.598	2.052	4.103
36	M40	Y	-5.598	-5.577	4.103	6.155
37	M40	Y	-5.577	-5.395	6.155	8.207
38	M40	Y	-5.395	-4.573	8.207	10.258
39	M40	Y	-4.573	-3.041	10.258	12.31
40	M40	Y	-3.041	-.959	12.31	14.362

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M6	Y	-.966	-4.915	0	2
2	M6	Y	-4.915	-8.864	2	4
3	M7	Y	-13.268	-11.309	.8	4
4	M6A	Y	-7.973	-7.613	0	1.858
5	M6A	Y	-7.613	-8.861	1.858	3.717
6	M6A	Y	-8.861	-10.428	3.717	5.575
7	M6A	Y	-10.428	-10.708	5.575	7.433
8	M7A	Y	-.246	-6.394	0	2.052
9	M7A	Y	-6.394	-10.763	2.052	4.103
10	M7A	Y	-10.763	-10.722	4.103	6.155
11	M7A	Y	-10.722	-10.372	6.155	8.207
12	M7A	Y	-10.372	-8.791	8.207	10.258
13	M7A	Y	-8.791	-5.847	10.258	12.31
14	M7A	Y	-5.847	-1.843	12.31	14.362
15	M5	Y	-5.666	-6.394	.8	4
16	M23A	Y	-10.8	-10.346	0	1.858
17	M23A	Y	-10.346	-8.741	1.858	3.717
18	M23A	Y	-8.741	-7.527	3.717	5.575
19	M23A	Y	-7.527	-7.855	5.575	7.433
20	M24	Y	-1.759	-5.555	0	2.052
21	M24	Y	-5.555	-11.119	2.052	4.103
22	M24	Y	-11.119	-12.437	4.103	6.155
23	M24	Y	-12.437	-9.936	6.155	8.207
24	M24	Y	-9.936	-8.583	8.207	10.258
25	M24	Y	-8.583	-5.519	10.258	12.31
26	M24	Y	-5.519	-1.794	12.31	14.362
27	M5	Y	-.966	-4.915	0	2
28	M5	Y	-4.915	-8.864	2	4
29	M6	Y	-7.722	-4.915	.8	4
30	M39A	Y	-7.973	-7.613	0	1.858
31	M39A	Y	-7.613	-8.861	1.858	3.717

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
32	M39A	Y	-8.861	-10.428	3.717	5.575
33	M39A	Y	-10.428	-10.708	5.575	7.433
34	M40	Y	-.246	-6.394	0	2.052
35	M40	Y	-6.394	-10.763	2.052	4.103
36	M40	Y	-10.763	-10.722	4.103	6.155
37	M40	Y	-10.722	-10.372	6.155	8.207
38	M40	Y	-10.372	-8.791	8.207	10.258
39	M40	Y	-8.791	-5.847	10.258	12.31
40	M40	Y	-5.847	-1.843	12.31	14.362

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M6	Y	-.022	-.11	0	2
2	M6	Y	-.11	-.198	2	4
3	M7	Y	-.296	-.252	.8	4
4	M6A	Y	-.178	-.17	0	1.858
5	M6A	Y	-.17	-.198	1.858	3.717
6	M6A	Y	-.198	-.233	3.717	5.575
7	M6A	Y	-.233	-.239	5.575	7.433
8	M7A	Y	-.005	-.143	0	2.052
9	M7A	Y	-.143	-.24	2.052	4.103
10	M7A	Y	-.24	-.239	4.103	6.155
11	M7A	Y	-.239	-.231	6.155	8.207
12	M7A	Y	-.231	-.196	8.207	10.258
13	M7A	Y	-.196	-.13	10.258	12.31
14	M7A	Y	-.13	-.041	12.31	14.362
15	M5	Y	-.126	-.143	.8	4
16	M23A	Y	-.241	-.231	0	1.858
17	M23A	Y	-.231	-.195	1.858	3.717
18	M23A	Y	-.195	-.168	3.717	5.575
19	M23A	Y	-.168	-.175	5.575	7.433
20	M24	Y	-.039	-.124	0	2.052
21	M24	Y	-.124	-.248	2.052	4.103
22	M24	Y	-.248	-.277	4.103	6.155
23	M24	Y	-.277	-.222	6.155	8.207
24	M24	Y	-.222	-.191	8.207	10.258
25	M24	Y	-.191	-.123	10.258	12.31
26	M24	Y	-.123	-.04	12.31	14.362
27	M5	Y	-.022	-.11	0	2
28	M5	Y	-.11	-.198	2	4
29	M6	Y	-.172	-.11	.8	4
30	M39A	Y	-.178	-.17	0	1.858
31	M39A	Y	-.17	-.198	1.858	3.717
32	M39A	Y	-.198	-.233	3.717	5.575
33	M39A	Y	-.233	-.239	5.575	7.433
34	M40	Y	-.005	-.143	0	2.052
35	M40	Y	-.143	-.24	2.052	4.103
36	M40	Y	-.24	-.239	4.103	6.155
37	M40	Y	-.239	-.231	6.155	8.207
38	M40	Y	-.231	-.196	8.207	10.258
39	M40	Y	-.196	-.13	10.258	12.31
40	M40	Y	-.13	-.041	12.31	14.362

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M6	Z	-.054	-.274	0	2
2	M6	Z	-.274	-.494	2	4
3	M7	Z	-.739	-.63	.8	4

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
4	M6A	Z	-.444	-.424	0	1.858
5	M6A	Z	-.424	-.494	1.858	3.717
6	M6A	Z	-.494	-.581	3.717	5.575
7	M6A	Z	-.581	-.597	5.575	7.433
8	M7A	Z	-.014	-.356	0	2.052
9	M7A	Z	-.356	-.6	2.052	4.103
10	M7A	Z	-.6	-.597	4.103	6.155
11	M7A	Z	-.597	-.578	6.155	8.207
12	M7A	Z	-.578	-.49	8.207	10.258
13	M7A	Z	-.49	-.326	10.258	12.31
14	M7A	Z	-.326	-.103	12.31	14.362
15	M5	Z	-.316	-.356	.8	4
16	M23A	Z	-.602	-.576	0	1.858
17	M23A	Z	-.576	-.487	1.858	3.717
18	M23A	Z	-.487	-.419	3.717	5.575
19	M23A	Z	-.419	-.438	5.575	7.433
20	M24	Z	-.098	-.31	0	2.052
21	M24	Z	-.31	-.62	2.052	4.103
22	M24	Z	-.62	-.693	4.103	6.155
23	M24	Z	-.693	-.554	6.155	8.207
24	M24	Z	-.554	-.478	8.207	10.258
25	M24	Z	-.478	-.308	10.258	12.31
26	M24	Z	-.308	-.1	12.31	14.362
27	M5	Z	-.054	-.274	0	2
28	M5	Z	-.274	-.494	2	4
29	M6	Z	-.43	-.274	.8	4
30	M39A	Z	-.444	-.424	0	1.858
31	M39A	Z	-.424	-.494	1.858	3.717
32	M39A	Z	-.494	-.581	3.717	5.575
33	M39A	Z	-.581	-.597	5.575	7.433
34	M40	Z	-.014	-.356	0	2.052
35	M40	Z	-.356	-.6	2.052	4.103
36	M40	Z	-.6	-.597	4.103	6.155
37	M40	Z	-.597	-.578	6.155	8.207
38	M40	Z	-.578	-.49	8.207	10.258
39	M40	Z	-.49	-.326	10.258	12.31
40	M40	Z	-.326	-.103	12.31	14.362

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	M6	X	.054	.274	0	2
2	M6	X	.274	.494	2	4
3	M7	X	.739	.63	.8	4
4	M6A	X	.444	.424	0	1.858
5	M6A	X	.424	.494	1.858	3.717
6	M6A	X	.494	.581	3.717	5.575
7	M6A	X	.581	.597	5.575	7.433
8	M7A	X	.014	.356	0	2.052
9	M7A	X	.356	.6	2.052	4.103
10	M7A	X	.6	.597	4.103	6.155
11	M7A	X	.597	.578	6.155	8.207
12	M7A	X	.578	.49	8.207	10.258
13	M7A	X	.49	.326	10.258	12.31
14	M7A	X	.326	.103	12.31	14.362
15	M5	X	.316	.356	.8	4
16	M23A	X	.602	.576	0	1.858
17	M23A	X	.576	.487	1.858	3.717
18	M23A	X	.487	.419	3.717	5.575

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
19	M23A	X	.419	.438	5.575	7.433
20	M24	X	.098	.31	0	2.052
21	M24	X	.31	.62	2.052	4.103
22	M24	X	.62	.693	4.103	6.155
23	M24	X	.693	.554	6.155	8.207
24	M24	X	.554	.478	8.207	10.258
25	M24	X	.478	.308	10.258	12.31
26	M24	X	.308	.1	12.31	14.362
27	M5	X	.054	.274	0	2
28	M5	X	.274	.494	2	4
29	M6	X	.43	.274	.8	4
30	M39A	X	.444	.424	0	1.858
31	M39A	X	.424	.494	1.858	3.717
32	M39A	X	.494	.581	3.717	5.575
33	M39A	X	.581	.597	5.575	7.433
34	M40	X	.014	.356	0	2.052
35	M40	X	.356	.6	2.052	4.103
36	M40	X	.6	.597	4.103	6.155
37	M40	X	.597	.578	6.155	8.207
38	M40	X	.578	.49	8.207	10.258
39	M40	X	.49	.326	10.258	12.31
40	M40	X	.326	.103	12.31	14.362

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.005
2	N18	N17	N10	N14	Y	Two Way	-.005
3	N14	N10	N15	N16	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.01
2	N18	N17	N10	N14	Y	Two Way	-.01
3	N14	N10	N15	N16	Y	Two Way	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.000223
2	N18	N17	N10	N14	Y	Two Way	-.000223
3	N14	N10	N15	N16	Y	Two Way	-.000223

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Z	Two Way	-.000557
2	N18	N17	N10	N14	Z	Two Way	-.000557
3	N14	N10	N15	N16	Z	Two Way	-.000557

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	X	Two Way	.000557
2	N18	N17	N10	N14	X	Two Way	.000557
3	N14	N10	N15	N16	X	Two Way	.000557

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N2	max	3269.822	10	1050.564	14	810.095	1	-0.897	73	2.487	9	.677	4
2		min	-3270.117	4	283.789	8	-721.056	7	-3.055	41	-2.545	3	-.593	10
3	N77	max	1779.232	11	1036.076	20	2819.513	1	1.645	24	2.555	7	2.621	18
4		min	-1756.563	5	321.735	2	-2965.941	7	.326	5	-2.519	1	.785	12
5	N109	max	1688.571	9	924.541	18	2569.124	1	1.275	15	2.256	3	-.584	2
6		min	-1765.498	3	255.626	12	-2635.472	7	.282	9	-2.323	9	-2.395	20
7	N150	max	62.493	10	1620.23	13	454.146	7	0	75	0	4	0	10
8		min	-62.463	4	-266.582	7	-2560.043	13	0	1	0	10	0	4
9	N151	max	289.812	3	1687.814	21	1335.644	21	0	18	0	12	0	12
10		min	-2313.36	21	-193.799	3	-167.354	3	0	12	0	18	0	18
11	N152	max	2381.551	17	1735.579	17	1374.95	17	0	8	0	8	0	8
12		min	-160.573	11	-102.884	11	-92.701	11	0	26	0	26	0	26
13	Totals:	max	4539.806	10	7142.836	24	4377.147	1						
14		min	-4539.806	4	2272.684	69	-4377.142	7						

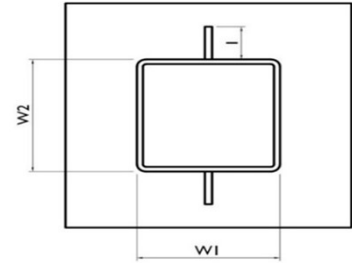
Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M7A	L3X3X4	.726	14.362	5	.411	7.181	y	1	3748.406	46656	1.688	2.889	1....	H2-1
2	M24	L3X3X4	.713	0	5	.468	7.181	y	9	3748.406	46656	1.688	2.845	1....	H2-1
3	M40	L3X3X4	.706	14.362	9	.438	7.181	y	5	3748.406	46656	1.688	2.842	1....	H2-1
4	M69	L3X3X4	.415	0	3	.056	.064	y	4	44286.713	46656	1.688	3.756	1....	H2-1
5	MP2A	PIPE 2.0	.371	4.875	10	.112	4.875		10	20866.733	32130	1.872	1.872	2....	H1-1b
6	M68	L3X3X4	.368	1.534	3	.085	1.534	y	3	44286.713	46656	1.688	3.756	2....	H2-1
7	MP2B	PIPE 2.0	.365	1.938	2	.110	4.875		1	20866.733	32130	1.872	1.872	2....	H1-1b
8	M67	L3X3X4	.357	0	11	.081	0	y	6	44286.713	46656	1.688	3.756	2....	H2-1
9	M7	LL3x3x4x0	.349	0	17	.055	1.958	y	29	76288.155	93312	6.48	4.357	1....	H1-1b
10	M6	LL3x3x4x0	.339	0	21	.054	1.958	y	21	76288.155	93312	6.48	4.357	1....	H1-1b
11	MP3C	PIPE 2.0	.313	4.875	6	.109	4.875		5	20866.733	32130	1.872	1.872	1....	H1-1b
12	MP3A	PIPE 2.0	.273	1.938	10	.105	4.875		8	20866.733	32130	1.872	1.872	2....	H1-1b
13	M5	LL3x3x4x0	.266	0	13	.044	1.958	y	13	76288.155	93312	6.48	4.357	2....	H1-1b
14	MP3B	PIPE 2.0	.256	1.938	2	.107	4.875		12	20866.733	32130	1.872	1.872	2....	H1-1b
15	M1	HSS4X4X4	.255	0	5	.135	0	z	4	138875.2...	139518	16.181	16.181	1....	H1-1b
16	M38	HSS4X4X4	.252	0	7	.122	0	z	12	138875.2...	139518	16.181	16.181	1....	H1-1b
17	M6A	L3X3X4	.247	3.717	3	.015	7.433	z	21	13991.953	46656	1.688	3.24	1....	H2-1
18	M65	PIPE 2.5	.244	9.245	3	.125	11.458		3	14558.792	50715	3.596	3.596	1....	H1-1b
19	M23A	L3X3X4	.242	3.717	7	.016	7.433	z	17	13991.953	46656	1.688	3.324	1....	H2-1
20	M39A	L3X3X4	.240	3.717	7	.014	7.433	z	13	13991.953	46656	1.688	3.273	1....	H2-1
21	MP1A	PIPE 2.5	.240	4.875	4	.144	4.875		12	37773.818	50715	3.596	3.596	2....	H1-1b
22	MP4C	PIPE 2.0	.234	1.938	6	.126	4.875		4	20866.733	32130	1.872	1.872	2....	H1-1b
23	M54	HSS4X4X4	.234	0	9	.117	0	z	9	138875.2...	139518	16.181	16.181	1....	H1-1b
24	MP1C	PIPE 2.0	.233	4.875	12	.136	4.875		10	20866.733	32130	1.872	1.872	2....	H1-1b
25	MP1B	PIPE 2.5	.231	4.875	8	.146	4.875		4	37773.818	50715	3.596	3.596	2....	H1-1b
26	M58	PIPE 2.5	.226	10.938	9	.070	2.344		2	14558.792	50715	3.596	3.596	1....	H1-1b
27	M66	PIPE 2.5	.210	10.937	1	.070	2.344		6	14558.792	50715	3.596	3.596	1....	H1-1b
28	MP4A	PIPE 2.0	.205	4.875	10	.103	4.375		12	20866.733	32130	1.872	1.872	2....	H1-1b
29	MP4B	PIPE 2.0	.195	4.875	3	.123	4.375		4	20866.733	32130	1.872	1.872	2....	H1-1b
30	MP2C	PIPE 2.5	.185	4.875	6	.163	4.875		2	37773.818	50715	3.596	3.596	1....	H1-1b
31	MP5C	PIPE 2.0	.171	4.875	6	.113	1.938		8	20866.733	32130	1.872	1.872	2....	H1-1b
32	M55	HSS4.5X4.5X3	.148	0	18	.039	0	y	23	119784.8...	121302	16.25	16.25	1....	H1-1b
33	M56	HSS4.5X4.5X3	.133	0	8	.038	0	y	20	119784.8...	121302	16.25	16.25	1....	H1-1b
34	M2	HSS4.5X4.5X3	.131	0	4	.049	0	y	16	119784.8...	121302	16.25	16.25	1....	H1-1b
35	OVP	PIPE 2.0	.120	2.5	6	.016	2.5		6	28843.414	32130	1.872	1.872	1....	H1-1b
36	M79	LL3x3x3x3	.069	6.132	17	.006	0	y	27	47147.253	70632	5.543	3.74	1	H1-1b*
37	M78	LL3x3x3x3	.067	6.132	21	.005	0	y	19	47147.252	70632	5.543	3.74	1	H1-1b*
38	M80	LL3x3x3x3	.064	6.132	13	.005	6.132	z	10	47147.253	70632	5.543	3.74	1	H1-1b*
39	LIGHT	PIPE 1.25	.014	.833	9	.009	.833		11	18830.497	19687.5	.801	.801	1....	H1-1b

Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Stiffener Notch Present?
Stiffener Length, l (in):
Stiffener Spacing/Width, s (in):
Weld Size (1/16 in):
W1 (in):
W2 (in):
Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in)
 c_y (in)
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Rectangle
(1) Stiffener on top/bottom
No
3.75
6
4
4
31.00
63.56
21.33
328.15
5.75
5.75
1.31
8.35
15.7%





Date: July 22, 2023

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

Subject: Structural Analysis Report

Carrier Designation: Verizon Wireless Co-Locate
Site Number: 5000385363
Site Name: Woodbridge S CT

Crown Castle Designation: BU Number: 876315
Site Name: Oak Lane Cc, Inc. Tower (SSUSA)
JDE Job Number: 751358
Work Order Number: 2247221
Order Number: 654620 Rev. 0

Engineering Firm Designation: B+T Group Project Number: 81150.011.01.0001

Site Data: 1027 Racebrook Road, Woodbridge, New Haven County, CT
Latitude 41° 19' 0.3", Longitude -73° 0' 41.8"
150 Foot - Monopole

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

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

Structural analysis prepared by: Jennifer Tillson, E.I.

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/01/2024



Chad E. Tuttle, P.E.

TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Configuration

Table 2 - Other Considered Equipment

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

3.1) Analysis Method

3.2) Assumptions

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Table 5 – Tower Component Stresses vs. Capacity – LC7

4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This is a 150 ft Monopole designed by Summit.

This Monopole has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	119 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
124.0	127.0	1	Gps	GPS_A	7 1	1-5/8 1/2
		6	Jma Wireless	MX06FRO660-03		
		1	Kaelus	BSF0020F3V1		
		1	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecomm.	RFV01U-D1A		
		3	Samsung Telecomm.	RFV01U-D2A		
		3	Vzw	Sub6 Antenna - VZS01		
	126.0	1	Antel	BXA-70080/4CF		
		2	Antel	BXA-80063/4CF		
	124.0	1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
150.0	154.0	1	Rfs Celwave	201-7	3 1	1-5/8 7/8
	151.0	3	Ericsson	AIR6449 B41_T-MOBILE		
	150.0	3	Ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	Ericsson	RADIO 4480 B71_TMO		
		3	Rfs Celwave	APXVAALL24_43-U-NA20_TMO		
		1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		
138.0	138.0	4	Ericsson	AIR 32 B2A/B66AA	11 1 2	1-5/8 1-3/8 1/2
		4	Ericsson	ERICSSON AIR 21 B2A B4P		
		8	Ericsson	RADIO 4449		
		4	Ericsson	RRUS 11 B12		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	
		1	Gps	GPS_A			
		4	Rfs Celwave	APXVAA24_43-U-A20			
		3	Rfs Celwave	ATMA4P4DBP-1A20			
		1	Rfs Celwave	SC2-W100AC			
		1	--	Platform Mount [LP 701-1]			
126.0	129.0	1	Rfs Celwave	TMA-DB-T1-6Z-8AB-0Z	1	1-5/8	
102.0	104.0	3	CCI Antennas	DMP65R-BU6D	6 2 2 2	1-5/8 3/4 5/8 3/8	
		3	CCI Antennas	OPA65R-BU6D			
		3	Ericsson	RRUS 4449 B5/B12			
		3	Ericsson	RRUS 8843 B2/B66A			
		3	Powerwave Tech.	LGP12104			
		2	Raycap	DC6-48-60-18-8F			
	102.0		3	Powerwave Tech.			7770.00
			3	Site Pro 1			PRK-SFS-L Stabilizer Kit
			3	Site Pro 1			HRK14-HD Handrail Kit
			1	--			Platform Mount [LP 1201-1]
82.0	83.0	1	Lucent	KS24019-L112A	1	1/2	
	82.0	1	--	Side Arm Mount [SO 701-1]			

3) ANALYSIS PROCEDURE

Table 3- Documents Provided

Document	Reference	Source
Tower Manufacturing Drawings	2134236	CCI Sites
Tower Modification Drawings	2134235	CCI Sites
Tower Modification Drawings	2414123	CCI Sites
Post Modification Inspection	2414121	CCI Sites
Tower Modification Drawings	3313096	CCI Sites
Post Modification Inspection	4137621	CCI Sites
Foundation Drawings	2112237	CCI Sites
Geotech Report	2134233	CCI Sites
Crown CAD Package	Date: 07/21/2023	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	150 - 145	Pole	TP22.875x22x0.25	1	-5.341	--	4.8	Pass
L2	145 - 140	Pole	TP23.75x22.875x0.25	2	-5.720	--	8.9	Pass
L3	140 - 135	Pole	TP24.625x23.75x0.25	3	-12.095	--	16.8	Pass
L4	135 - 130	Pole	TP25.501x24.625x0.25	4	-12.590	--	25.0	Pass
L5	130 - 125	Pole	TP26.376x25.501x0.25	5	-13.141	--	32.6	Pass
L6	125 - 120	Pole	TP27.251x26.376x0.25	6	-18.266	--	43.3	Pass
L7	120 - 115	Pole	TP28.126x27.251x0.25	7	-18.901	--	52.5	Pass
L8	115 - 110	Pole	TP29.001x28.126x0.25	8	-19.567	--	61.1	Pass
L9	110 - 106.25	Pole	TP30.314x29.001x0.25	9	-20.081	--	67.1	Pass
L10	106.25 - 101.25	Pole	TP30.033x29.158x0.3125	10	-25.403	--	53.7	Pass
L11	101.25 - 96.25	Pole	TP30.908x30.033x0.3125	11	-26.336	--	59.8	Pass
L12	96.25 - 91.25	Pole	TP31.783x30.908x0.3125	12	-27.298	--	65.5	Pass
L13	91.25 - 86.25	Pole	TP32.658x31.783x0.3125	13	-28.289	--	70.8	Pass
L14	86.25 - 81.25	Pole	TP33.534x32.658x0.3125	14	-29.389	--	75.8	Pass
L15	81.25 - 76.25	Pole	TP34.409x33.534x0.3125	15	-30.438	--	80.5	Pass
L16	76.25 - 73.5	Pole	TP34.89x34.409x0.3125	16	-31.019	--	82.9	Pass
L17	73.5 - 73.25	Pole + Reinf.	TP34.934x34.89x0.4	17	-31.100	--	75.1	Pass
L18	73.25 - 68.25	Pole + Reinf.	TP35.809x34.934x0.4	18	-32.325	--	78.5	Pass
L19	68.25 - 66.75	Pole + Reinf.	TP36.903x35.809x0.4	19	-32.694	--	79.5	Pass
L20	66.75 - 61	Pole	TP36.453x35.447x0.375	20	-34.923	--	74.3	Pass
L21	61 - 56.25	Pole	TP37.284x36.453x0.375	21	-36.121	--	76.9	Pass
L22	56.25 - 56	Pole + Reinf.	TP37.328x37.284x0.4563	22	-36.209	--	76.5	Pass
L23	56 - 51	Pole + Reinf.	TP38.203x37.328x0.4563	23	-37.644	--	78.7	Pass
L24	51 - 46	Pole + Reinf.	TP39.078x38.203x0.45	24	-39.117	--	80.6	Pass
L25	46 - 41	Pole + Reinf.	TP39.954x39.078x0.45	25	-40.616	--	82.4	Pass
L26	41 - 39.5	Pole + Reinf.	TP40.216x39.954x0.45	26	-41.063	--	83.0	Pass
L27	39.5 - 39.25	Pole + Reinf.	TP40.26x40.216x0.4875	27	-41.165	--	79.9	Pass
L28	39.25 - 38.75	Pole + Reinf.	TP40.347x40.26x0.4875	28	-41.329	--	80.1	Pass
L29	38.75 - 38.5	Pole + Reinf.	TP40.391x40.347x0.475	29	-41.411	--	79.3	Pass
L30	38.5 - 37.5	Pole + Reinf.	TP41.485x40.391x0.475	30	-41.718	--	79.6	Pass
L31	37.5 - 31.25	Pole + Reinf.	TP40.91x39.816x0.5375	31	-45.133	--	74.8	Pass
L32	31.25 - 26.25	Pole + Reinf.	TP41.785x40.91x0.5375	32	-46.897	--	76.0	Pass
L33	26.25 - 21.25	Pole + Reinf.	TP42.66x41.785x0.5375	33	-48.688	--	77.1	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L34	21.25 - 16.25	Pole + Reinf.	TP43.536x42.66x0.5313	34	-50.507	--	78.1	Pass
L35	16.25 - 11.25	Pole + Reinf.	TP44.411x43.536x0.525	35	-52.354	--	79.0	Pass
L36	11.25 - 10	Pole + Reinf.	TP44.63x44.411x0.525	36	-52.817	--	79.2	Pass
L37	10 - 9.75	Pole + Reinf.	TP44.673x44.63x0.4625	37	-52.920	--	78.7	Pass
L38	9.75 - 7.25	Pole + Reinf.	TP45.111x44.673x0.4625	38	-53.811	--	79.2	Pass
L39	7.25 - 7	Pole + Reinf.	TP45.155x45.111x0.5063	39	-53.916	--	79.9	Pass
L40	7 - 2	Pole + Reinf.	TP46.03x45.155x0.5	40	-55.728	--	80.7	Pass
L41	2 - 0	Pole + Reinf.	TP46.38x46.03x0.5	41	-56.465	--	81.0	Pass
							Summary	
						Pole (L16)	82.9	Pass
						Reinforcement	83.0	Pass
						Rating =	83.0	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	60.6	Pass
1,2	Base Plate	Base	46.7	Pass
1,2	Anchor Rods Bracket	Base	56.6	Pass
1,2	Base Foundation (Structure)	Base	20.5	Pass
1,2	Base Foundation (Soil Interaction)	Base	74.1	Pass

Structure Rating (max from all components) =	83.0%
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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.

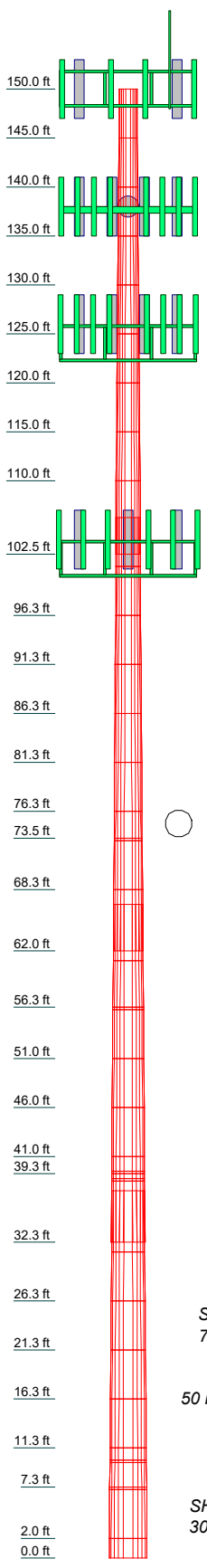
4.1) Recommendations

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	12	0.250	3.750	24.000	24.000	A607-60	0.3
2	5.000	12	0.250	3.750	22.875	22.875	A607-60	0.3
3	5.000	12	0.250	3.750	23.750	23.750	A607-60	0.3
4	5.000	12	0.250	3.750	24.625	24.625	A607-60	0.3
5	5.000	12	0.250	3.750	25.501	25.501	A607-60	0.4
6	5.000	12	0.250	3.750	26.376	26.376	A607-60	0.4
7	5.000	12	0.250	3.750	27.251	27.251	A607-60	0.4
8	5.000	12	0.250	3.750	28.126	28.126	A607-60	0.4
9	5.000	12	0.250	3.750	29.001	29.001	A607-60	0.4
10	5.000	12	0.250	3.750	29.876	29.876	A607-60	0.5
11	5.000	12	0.313	3.750	30.751	30.751	A607-60	0.5
12	5.000	12	0.313	3.750	31.626	31.626	A607-60	0.5
13	5.000	12	0.313	3.750	32.501	32.501	A607-60	0.5
14	5.000	12	0.313	3.750	33.376	33.376	A607-60	0.6
15	5.000	12	0.313	3.750	34.251	34.251	A607-60	0.6
16	5.000	12	0.313	3.750	35.126	35.126	A607-60	0.6
17	5.000	12	0.400	4.750	36.001	36.001	A607-65	0.8
18	5.000	12	0.400	4.750	36.876	36.876	A607-65	0.8
19	5.000	12	0.400	4.750	37.751	37.751	A607-65	1.0
20	5.000	12	0.450	4.750	38.626	38.626	A607-65	0.8
21	5.000	12	0.450	4.750	39.501	39.501	A607-65	0.8
22	5.000	12	0.450	4.750	40.376	40.376	A607-65	0.7
23	5.000	12	0.450	4.750	41.251	41.251	A607-65	0.7
24	5.000	12	0.450	4.750	42.126	42.126	A607-65	1.0
25	5.000	12	0.450	4.750	43.001	43.001	A607-65	1.0
26	5.000	12	0.450	4.750	43.876	43.876	A607-65	1.0
27	5.000	12	0.450	4.750	44.751	44.751	A607-65	1.0
28	5.000	12	0.450	4.750	45.626	45.626	A607-65	1.0
29	5.000	12	0.450	4.750	46.501	46.501	A607-65	1.0
30	5.000	12	0.450	4.750	47.376	47.376	A607-65	1.3
31	5.000	12	0.537	5.250	48.251	48.251	A607-65	1.4
32	5.000	12	0.537	5.250	49.126	49.126	A607-65	1.2
33	5.000	12	0.537	5.250	50.001	50.001	A607-65	1.2
34	5.000	12	0.531	5.250	50.876	50.876	A607-65	1.2
35	5.000	12	0.531	5.250	51.751	51.751	A607-65	1.2
36	5.000	12	0.531	5.250	52.626	52.626	A607-65	1.2
37	5.000	12	0.531	5.250	53.501	53.501	A607-65	1.2
38	5.000	12	0.531	5.250	54.376	54.376	A607-65	1.2
39	5.000	12	0.531	5.250	55.251	55.251	A607-65	1.2
40	5.000	12	0.531	5.250	56.126	56.126	A607-65	1.2
41	5.000	12	0.531	5.250	57.001	57.001	A607-65	1.2



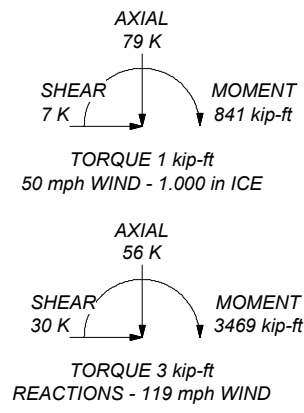
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-60	60 ksi	75 ksi	A607-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 119 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 83.0%

ALL REACTIONS ARE FACTORED



B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

Job: 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 07/22/23	Scale: NTS
Path:	Dwg No: E-1	

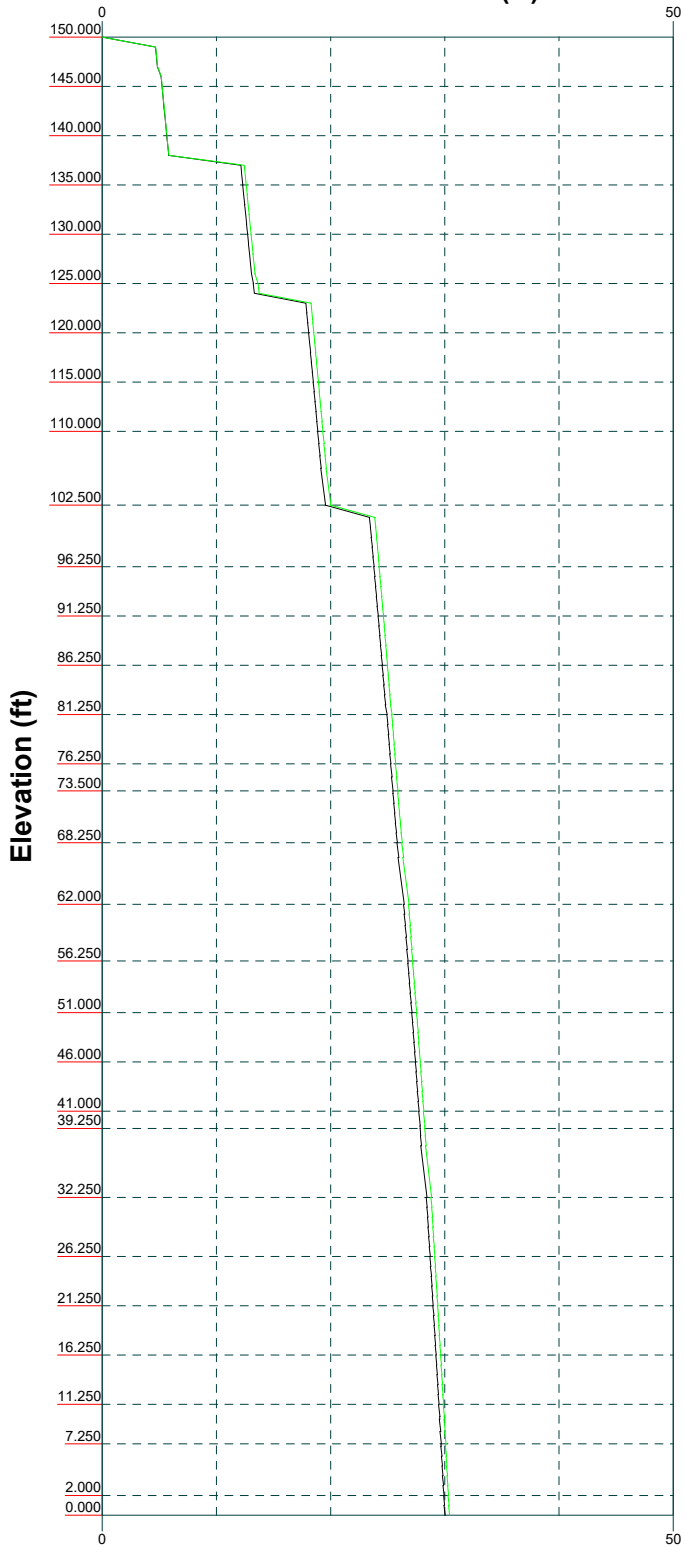
Vx

Vz

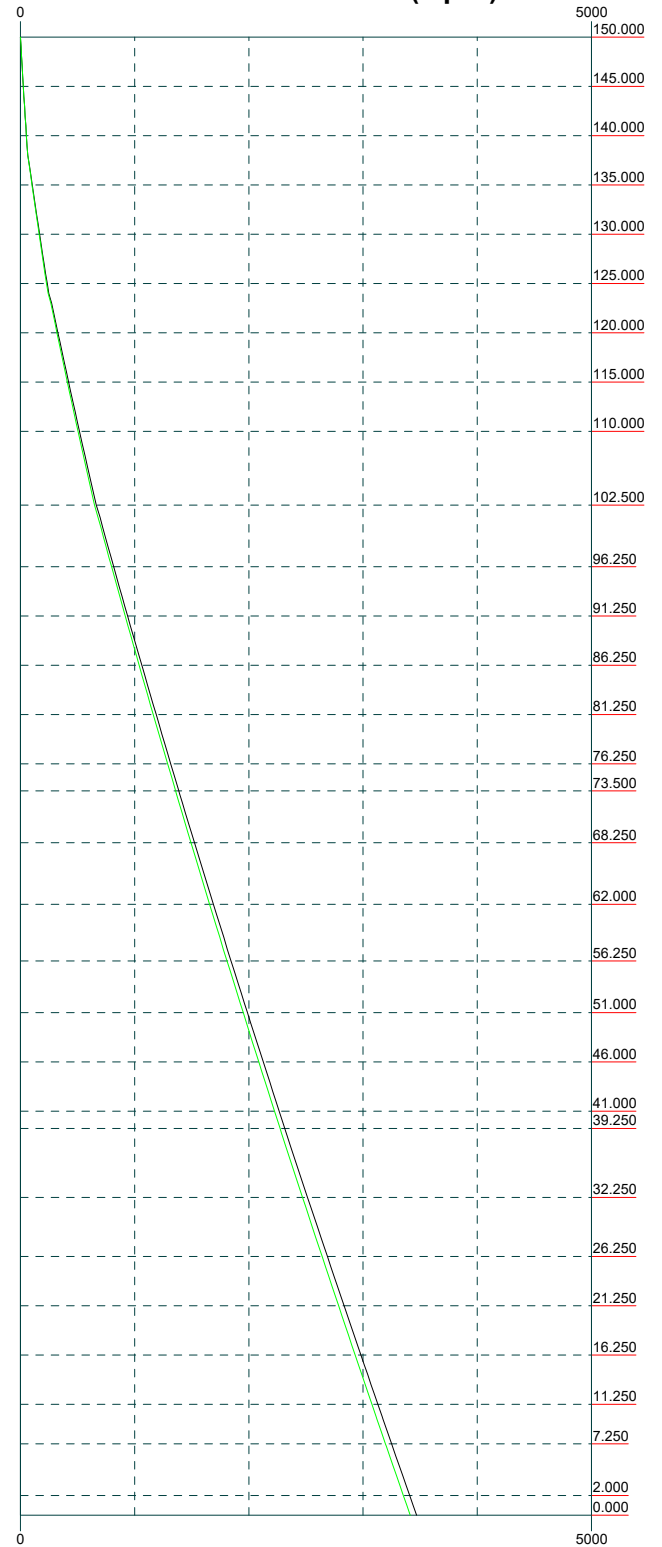
Mx


Mz

Global Mast Shear (K)

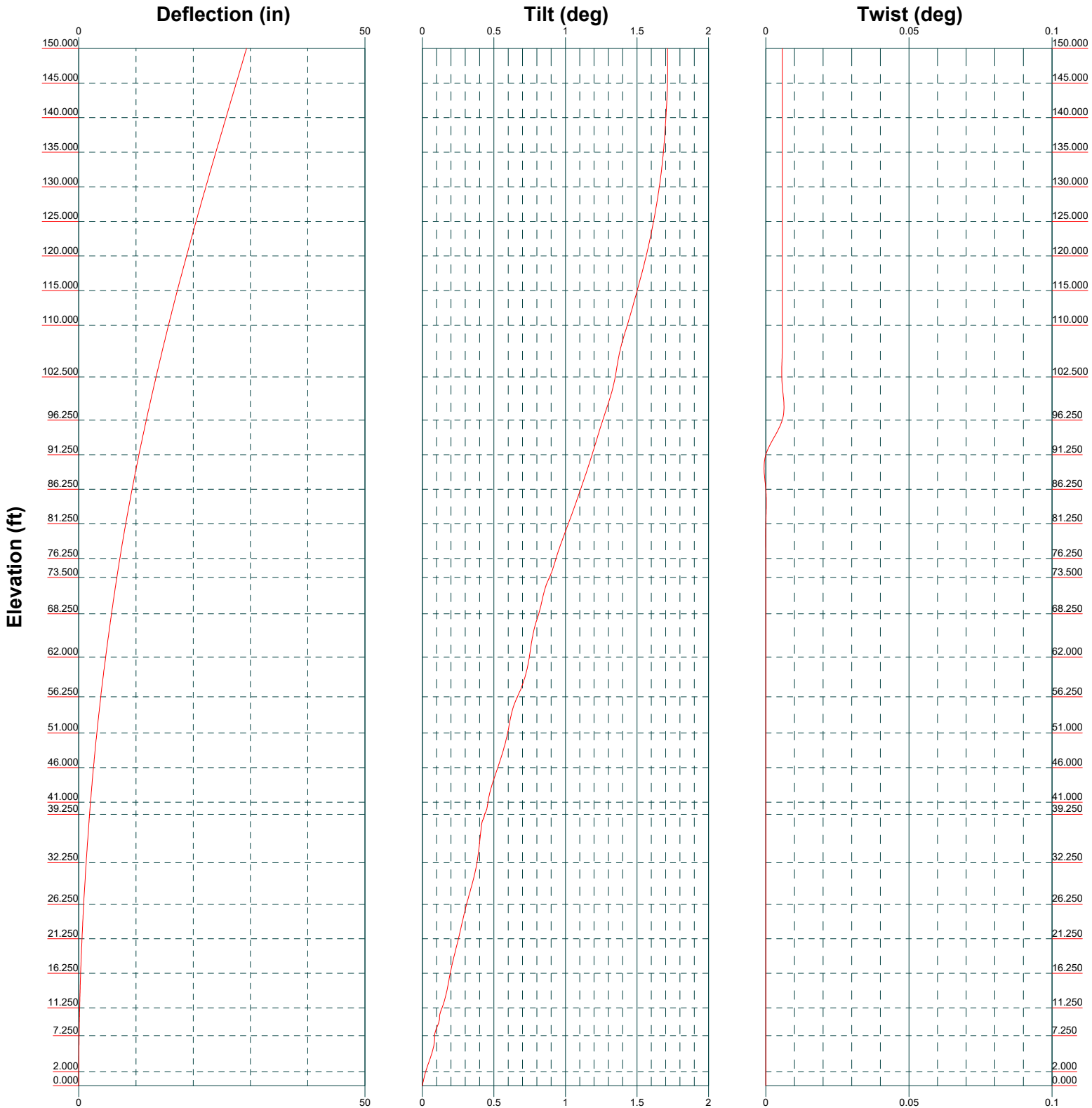


Global Mast Moment (kip-ft)




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Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 07/22/23	Scale: NTS
Path:	Dwg No: E-4	



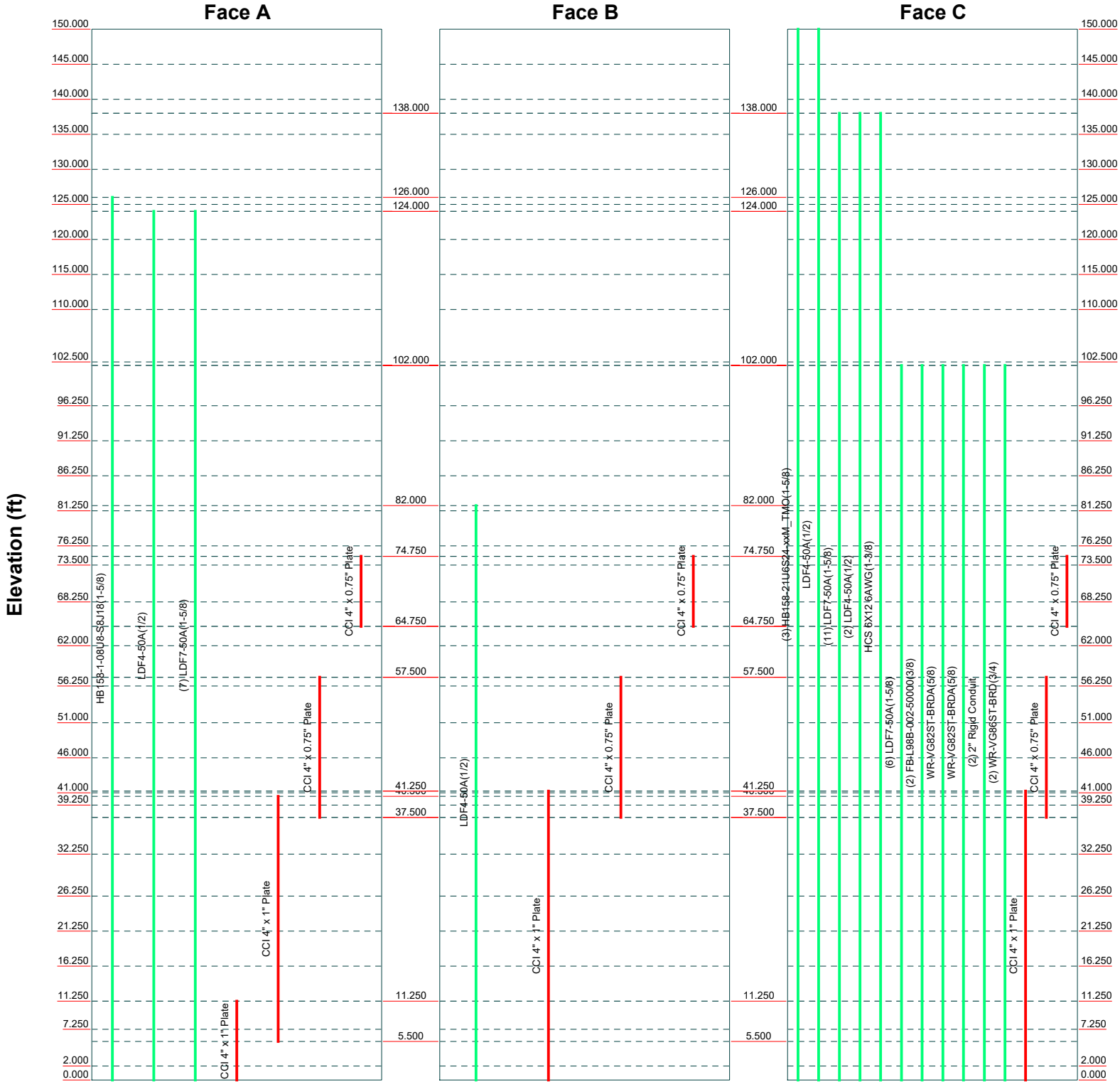
B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265


Job: 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 07/22/23	Scale: NTS
Path:	Dwg No: E-5	

Feed Line Distribution Chart

0' - 150'

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




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 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

Job: 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631		
Project:		
Client: Crown Castle	Drawn by: Jayaraj B	App'd:
Code: TIA-222-H	Date: 07/22/23	Scale: NTS
Path:		Dwg No: E-7

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 1 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

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: 241.000 ft.

Basic wind speed of 119 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 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.

TOWER RATING:83.0%.

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

<ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric 	<ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retention Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs 	<ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 2 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

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	150.000-145.000	5.000	0.000	12	22.000	22.875	0.250	1.000	A607-60 (60 ksi)
L2	145.000-140.000	5.000	0.000	12	22.875	23.750	0.250	1.000	A607-60 (60 ksi)
L3	140.000-135.000	5.000	0.000	12	23.750	24.625	0.250	1.000	A607-60 (60 ksi)
L4	135.000-130.000	5.000	0.000	12	24.625	25.501	0.250	1.000	A607-60 (60 ksi)
L5	130.000-125.000	5.000	0.000	12	25.501	26.376	0.250	1.000	A607-60 (60 ksi)
L6	125.000-120.000	5.000	0.000	12	26.376	27.251	0.250	1.000	A607-60 (60 ksi)
L7	120.000-115.000	5.000	0.000	12	27.251	28.126	0.250	1.000	A607-60 (60 ksi)
L8	115.000-110.000	5.000	0.000	12	28.126	29.001	0.250	1.000	A607-60 (60 ksi)
L9	110.000-102.500	7.500	3.750	12	29.001	30.314	0.250	1.000	A607-60 (60 ksi)
L10	102.500-101.250	5.000	0.000	12	29.158	30.033	0.313	1.250	A607-65 (65 ksi)
L11	101.250-96.250	5.000	0.000	12	30.033	30.908	0.313	1.250	A607-65 (65 ksi)
L12	96.250-91.250	5.000	0.000	12	30.908	31.783	0.313	1.250	A607-65 (65 ksi)
L13	91.250-86.250	5.000	0.000	12	31.783	32.658	0.313	1.250	A607-65 (65 ksi)
L14	86.250-81.250	5.000	0.000	12	32.658	33.534	0.313	1.250	A607-65 (65 ksi)
L15	81.250-76.250	5.000	0.000	12	33.534	34.409	0.313	1.250	A607-65 (65 ksi)
L16	76.250-73.500	2.750	0.000	12	34.409	34.890	0.313	1.250	A607-65 (65 ksi)
L17	73.500-73.250	0.250	0.000	12	34.890	34.934	0.400	1.600	A607-65 (65 ksi)
L18	73.250-68.250	5.000	0.000	12	34.934	35.809	0.400	1.600	A607-65 (65 ksi)
L19	68.250-62.000	6.250	4.750	12	35.809	36.903	0.400	1.600	A607-65 (65 ksi)
L20	62.000-61.000	5.750	0.000	12	35.447	36.453	0.375	1.500	A607-65 (65 ksi)
L21	61.000-56.250	4.750	0.000	12	36.453	37.284	0.375	1.500	A607-65 (65 ksi)
L22	56.250-56.000	0.250	0.000	12	37.284	37.328	0.456	1.825	A607-65 (65 ksi)
L23	56.000-51.000	5.000	0.000	12	37.328	38.203	0.456	1.825	A607-65 (65 ksi)
L24	51.000-46.000	5.000	0.000	12	38.203	39.078	0.450	1.800	A607-65 (65 ksi)
L25	46.000-41.000	5.000	0.000	12	39.078	39.954	0.450	1.800	A607-65 (65 ksi)
L26	41.000-39.500	1.500	0.000	12	39.954	40.216	0.450	1.800	A607-65 (65 ksi)
L27	39.500-39.250	0.250	0.000	12	40.216	40.260	0.487	1.950	A607-65 (65 ksi)
L28	39.250-38.750	0.500	0.000	12	40.260	40.347	0.487	1.950	A607-65 (65 ksi)

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	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

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
L29	38.750-38.500	0.250	0.000	12	40.347	40.391	0.475	1.900	A607-65 (65 ksi)
L30	38.500-32.250	6.250	5.250	12	40.391	41.485	0.475	1.900	A607-65 (65 ksi)
L31	32.250-31.250	6.250	0.000	12	39.816	40.910	0.537	2.150	A607-65 (65 ksi)
L32	31.250-26.250	5.000	0.000	12	40.910	41.785	0.537	2.150	A607-65 (65 ksi)
L33	26.250-21.250	5.000	0.000	12	41.785	42.660	0.537	2.150	A607-65 (65 ksi)
L34	21.250-16.250	5.000	0.000	12	42.660	43.536	0.531	2.125	A607-65 (65 ksi)
L35	16.250-11.250	5.000	0.000	12	43.536	44.411	0.525	2.100	A607-65 (65 ksi)
L36	11.250-10.000	1.250	0.000	12	44.411	44.630	0.525	2.100	A607-65 (65 ksi)
L37	10.000-9.750	0.250	0.000	12	44.630	44.673	0.463	1.850	A607-65 (65 ksi)
L38	9.750-7.250	2.500	0.000	12	44.673	45.111	0.463	1.850	A607-65 (65 ksi)
L39	7.250-7.000	0.250	0.000	12	45.111	45.155	0.506	2.025	A607-65 (65 ksi)
L40	7.000-2.000	5.000	0.000	12	45.155	46.030	0.500	2.000	A607-65 (65 ksi)
L41	2.000-0.000	2.000		12	46.030	46.380	0.500	2.000	A607-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	22.688	17.509	1057.206	7.786	11.396	92.770	2142.186	8.617	5.226	20.904
	23.594	18.213	1190.027	8.100	11.849	100.430	2411.317	8.964	5.461	21.842
L2	23.594	18.213	1190.027	8.100	11.849	100.430	2411.317	8.964	5.461	21.842
	24.500	18.918	1333.530	8.413	12.303	108.394	2702.094	9.311	5.695	22.78
L3	24.500	18.918	1333.530	8.413	12.303	108.394	2702.094	9.311	5.695	22.78
	25.406	19.622	1488.131	8.726	12.756	116.661	3015.356	9.657	5.930	23.719
L4	25.406	19.622	1488.131	8.726	12.756	116.661	3015.356	9.657	5.930	23.719
	26.312	20.327	1654.240	9.040	13.209	125.233	3351.939	10.004	6.164	24.657
L5	26.312	20.327	1654.240	9.040	13.209	125.233	3351.939	10.004	6.164	24.657
	27.218	21.031	1832.273	9.353	13.663	134.108	3712.681	10.351	6.399	25.595
L6	27.218	21.031	1832.273	9.353	13.663	134.108	3712.681	10.351	6.399	25.595
	28.124	21.736	2022.641	9.666	14.116	143.287	4098.419	10.698	6.633	26.533
L7	28.124	21.736	2022.641	9.666	14.116	143.287	4098.419	10.698	6.633	26.533
	29.030	22.440	2225.759	9.980	14.569	152.770	4509.991	11.044	6.868	27.471
L8	29.030	22.440	2225.759	9.980	14.569	152.770	4509.991	11.044	6.868	27.471
	29.936	23.145	2442.039	10.293	15.023	162.557	4948.233	11.391	7.102	28.409
L9	29.936	23.145	2442.039	10.293	15.023	162.557	4948.233	11.391	7.102	28.409
	31.295	24.202	2792.043	10.763	15.703	177.807	5657.436	11.911	7.454	29.817
L10	30.756	29.025	3082.545	10.327	15.104	204.093	6246.072	14.285	6.977	22.326
	30.982	29.906	3371.724	10.640	15.557	216.734	6832.027	14.719	7.211	23.076
L11	30.982	29.906	3371.724	10.640	15.557	216.734	6832.027	14.719	7.211	23.076
	31.888	30.787	3678.446	10.953	16.010	229.754	7453.529	15.152	7.446	23.827
L12	31.888	30.787	3678.446	10.953	16.010	229.754	7453.529	15.152	7.446	23.827
	32.794	31.667	4003.227	11.267	16.464	243.155	8111.624	15.586	7.680	24.577
L13	32.794	31.667	4003.227	11.267	16.464	243.155	8111.624	15.586	7.680	24.577

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page	4 of 49
	Project		Date	14:38:46 07/22/23
	Client	Crown Castle	Designed by	Jayaraj B

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
	33.700	32.548	4346.584	11.580	16.917	256.935	8807.358	16.019	7.915	25.328
L14	33.700	32.548	4346.584	11.580	16.917	256.935	8807.358	16.019	7.915	25.328
	34.606	33.429	4709.033	11.893	17.370	271.096	9541.778	16.453	8.149	26.078
L15	34.606	33.429	4709.033	11.893	17.370	271.096	9541.778	16.453	8.149	26.078
	35.512	34.309	5091.091	12.206	17.824	285.636	10315.931	16.886	8.384	26.829
L16	35.512	34.309	5091.091	12.206	17.824	285.636	10315.931	16.886	8.384	26.829
	36.011	34.794	5309.769	12.379	18.073	293.795	10759.031	17.124	8.513	27.242
L17	35.980	44.423	6745.038	12.347	18.073	373.209	13667.275	21.864	8.279	20.696
	36.025	44.480	6770.744	12.363	18.096	374.163	13719.362	21.891	8.290	20.726
L18	36.025	44.480	6770.744	12.363	18.096	374.163	13719.362	21.891	8.290	20.726
	36.931	45.607	7298.668	12.676	18.549	393.479	14789.079	22.446	8.525	21.312
L19	36.931	45.607	7298.668	12.676	18.549	393.479	14789.079	22.446	8.525	21.312
	38.064	47.016	7996.271	13.068	19.116	418.308	16202.612	23.140	8.818	22.045
L20	37.425	42.349	6648.734	12.556	18.361	362.105	13472.137	20.843	8.495	22.652
	37.607	43.564	7237.686	12.916	18.883	383.298	14665.514	21.441	8.764	23.372
L21	37.607	43.564	7237.686	12.916	18.883	383.298	14665.514	21.441	8.764	23.372
	38.467	44.568	7749.658	13.214	19.313	401.260	15702.908	21.935	8.987	23.966
L22	38.439	54.105	9366.620	13.184	19.313	484.983	18979.312	26.629	8.769	19.221
	38.484	54.169	9400.046	13.200	19.336	486.143	19047.042	26.661	8.781	19.246
L23	38.484	54.169	9400.046	13.200	19.336	486.143	19047.042	26.661	8.781	19.246
	39.390	55.455	10085.373	13.513	19.789	509.638	20435.699	27.293	9.016	19.76
L24	39.392	54.704	9952.159	13.516	19.789	502.907	20165.772	26.924	9.032	20.072
	40.298	55.973	10660.409	13.829	20.243	526.632	21600.880	27.548	9.267	20.593
L25	40.298	55.973	10660.409	13.829	20.243	526.632	21600.880	27.548	9.267	20.593
	41.204	57.241	11401.489	14.142	20.696	550.905	23102.508	28.172	9.502	21.115
L26	41.204	57.241	11401.489	14.142	20.696	550.905	23102.508	28.172	9.502	21.115
	41.476	57.621	11630.326	14.236	20.832	558.294	23566.194	28.359	9.572	21.271
L27	41.463	62.364	12563.909	14.223	20.832	603.109	25457.886	30.694	9.471	19.429
	41.508	62.433	12605.468	14.238	20.855	604.446	25542.096	30.727	9.483	19.453
L28	41.508	62.433	12605.468	14.238	20.855	604.446	25542.096	30.727	9.483	19.453
	41.599	62.570	12688.861	14.270	20.900	607.125	25711.072	30.795	9.507	19.501
L29	41.603	60.985	12375.141	14.274	20.900	592.114	25075.390	30.015	9.540	20.084
	41.648	61.052	12415.928	14.290	20.923	593.422	25158.035	30.048	9.552	20.109
L30	41.648	61.052	12415.928	14.290	20.923	593.422	25158.035	30.048	9.552	20.109
	42.781	62.725	13464.950	14.682	21.489	626.591	27283.639	30.871	9.845	20.726
L31	41.982	67.981	13387.165	14.062	20.625	649.083	27126.025	33.458	9.230	17.172
	42.164	69.875	14537.180	14.453	21.191	685.993	29456.268	34.390	9.523	17.718
L32	42.164	69.875	14537.180	14.453	21.191	685.993	29456.268	34.390	9.523	17.718
	43.070	71.390	15503.220	14.767	21.645	716.257	31413.728	35.136	9.758	18.154
L33	43.070	71.390	15503.220	14.767	21.645	716.257	31413.728	35.136	9.758	18.154
	43.976	72.904	16511.138	15.080	22.098	747.174	33456.041	35.881	9.993	18.591
L34	43.978	72.067	16326.413	15.082	22.098	738.815	33081.739	35.469	10.009	18.841
	44.884	73.564	17365.183	15.396	22.551	770.025	35186.569	36.206	10.244	19.282
L35	44.886	72.709	17168.370	15.398	22.551	761.297	34787.772	35.785	10.261	19.544
	45.792	74.189	18237.872	15.711	23.005	792.785	36954.873	36.514	10.495	19.991
L36	45.792	74.189	18237.872	15.711	23.005	792.785	36954.873	36.514	10.495	19.991
	46.019	74.559	18512.013	15.789	23.118	800.757	37510.358	36.696	10.554	20.102
L37	46.041	65.776	16377.631	15.812	23.118	708.432	33185.520	32.373	10.721	23.181
	46.086	65.841	16426.358	15.827	23.141	709.844	33284.255	32.405	10.733	23.206
L38	46.086	65.841	16426.358	15.827	23.141	709.844	33284.255	32.405	10.733	23.206
	46.539	66.493	16918.959	15.984	23.367	724.038	34282.397	32.726	10.850	23.46
L39	46.524	72.711	18465.014	15.968	23.367	790.201	37415.124	35.786	10.733	21.201
	46.569	72.783	18519.412	15.984	23.390	791.761	37525.350	35.821	10.745	21.224
L40	46.571	71.894	18298.460	15.986	23.390	782.315	37077.640	35.384	10.761	21.523
	47.477	73.303	19395.575	16.300	23.844	813.453	39300.693	36.078	10.996	21.992
L41	47.477	73.303	19395.575	16.300	23.844	813.453	39300.693	36.078	10.996	21.992
	47.840	73.867	19846.414	16.425	24.025	826.079	40214.216	36.355	11.090	22.18

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 6 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L25				1	1	0.992372			
46.000-41.000									
L26				1	1	0.991322			
41.000-39.500									
L27				1	1	1.04409			
39.500-39.250									
L28				1	1	1.04349			
39.250-38.750									
L29				1	1	0.988288			
38.750-38.500									
L30				1	1	0.98742			
38.500-32.250									
L31				1	1	0.987951			
32.250-31.250									
L32				1	1	0.98426			
31.250-26.250									
L33				1	1	0.980721			
26.250-21.250									
L34				1	1	0.988681			
21.250-16.250									
L35				1	1	0.996976			
16.250-11.250									
L36				1	1	0.996164			
11.250-10.000									
L37				1	1	1.06816			
10.000-9.750									
L38				1	1	1.06696			
9.750-7.250									
L39				1	1	0.975602			
7.250-7.000									
L40				1	1	0.985493			
7.000-2.000									
L41				1	1	0.98465			
2.000-0.000									

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
*										
CCI 4" x 1" Plate	A	No	Surface Af (CaAa)	11.250 - 0.000	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 1" Plate	A	No	Surface Af (CaAa)	40.500 - 5.500	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 1" Plate	B	No	Surface Af (CaAa)	41.250 - 0.000	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 1" Plate	C	No	Surface Af (CaAa)	41.250 - 0.000	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	57.500 - 37.500	1	1	0.000 0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	57.500 - 37.500	1	1	0.000 0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	C	No	Surface Af	57.500 -	1	1	0.000	4.000	9.500	0.000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 7 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

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
			(CaAa)	37.500			0.000			
CCI 4" x 0.75" Plate	A	No	Surface Af	74.750 - 64.750	1	1	0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	B	No	Surface Af	74.750 - 64.750	1	1	0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	C	No	Surface Af	74.750 - 64.750	1	1	0.000	4.000	9.500	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 _A A _A ft ² /ft	Weight klf
HB158-21U6S24-xx M_TMO(1-5/8)	C	No	No	Inside Pole	150.000 - 0.000	3	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
LDF4-50A(1/2)	C	No	No	Inside Pole	150.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
*									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	138.000 - 0.000	11	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
LDF4-50A(1/2)	C	No	No	Inside Pole	138.000 - 0.000	2	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
HCS 6X12 6AWG(1-3/8)	C	No	No	Inside Pole	138.000 - 0.000	1	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
*									
HB158-1-08U8-S8J 18(1-5/8)	A	No	No	Inside Pole	126.000 - 0.000	1	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
LDF4-50A(1/2)	A	No	No	Inside Pole	124.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
LDF7-50A(1-5/8)	A	No	No	Inside Pole	124.000 - 0.000	7	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
*									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	102.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
FB-L98B-002-50000 (3/8)	C	No	No	Inside Pole	102.000 - 0.000	2	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
WR-VG82ST-BRD A(5/8)	C	No	No	Inside Pole	102.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
WR-VG82ST-BRD A(5/8)	C	No	No	Inside Pole	102.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
2" Rigid Conduit	C	No	No	Inside Pole	102.000 - 0.000	2	No Ice	0.000	0.003

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 8 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight klf
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	102.000 - 0.000	2	1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
*									
LDF4-50A(1/2)	B	No	No	Inside Pole	82.000 - 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} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	150.000-145.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.038
L2	145.000-140.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.038
L3	140.000-135.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.071
L4	135.000-130.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.093
L5	130.000-125.000	A	0.000	0.000	0.000	0.000	0.001
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.093
L6	125.000-120.000	A	0.000	0.000	0.000	0.000	0.030
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.093
L7	120.000-115.000	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.093
L8	115.000-110.000	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.093
L9	110.000-102.500	A	0.000	0.000	0.000	0.000	0.054
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.140
L10	102.500-101.250	A	0.000	0.000	0.000	0.000	0.009
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.033
L11	101.250-96.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.155
L12	96.250-91.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.155

tnxTower

B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
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Job
 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA,
 CT (BU# 876315)

Page
 9 of 49

Project
Date
 14:38:46 07/22/23

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Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L13	91.250-86.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.155
L14	86.250-81.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.155
L15	81.250-76.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.001
		C	0.000	0.000	0.000	0.000	0.155
L16	76.250-73.500	A	0.000	0.000	0.833	0.000	0.020
		B	0.000	0.000	0.833	0.000	0.000
		C	0.000	0.000	0.833	0.000	0.085
L17	73.500-73.250	A	0.000	0.000	0.167	0.000	0.002
		B	0.000	0.000	0.167	0.000	0.000
		C	0.000	0.000	0.167	0.000	0.008
L18	73.250-68.250	A	0.000	0.000	3.333	0.000	0.036
		B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
L19	68.250-62.000	A	0.000	0.000	2.333	0.000	0.045
		B	0.000	0.000	2.333	0.000	0.001
		C	0.000	0.000	2.333	0.000	0.194
L20	62.000-61.000	A	0.000	0.000	0.000	0.000	0.007
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.031
L21	61.000-56.250	A	0.000	0.000	0.833	0.000	0.034
		B	0.000	0.000	0.833	0.000	0.001
		C	0.000	0.000	0.833	0.000	0.148
L22	56.250-56.000	A	0.000	0.000	0.167	0.000	0.002
		B	0.000	0.000	0.167	0.000	0.000
		C	0.000	0.000	0.167	0.000	0.008
L23	56.000-51.000	A	0.000	0.000	3.333	0.000	0.036
		B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
L24	51.000-46.000	A	0.000	0.000	3.333	0.000	0.036
		B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
L25	46.000-41.000	A	0.000	0.000	3.333	0.000	0.036
		B	0.000	0.000	3.500	0.000	0.001
		C	0.000	0.000	3.500	0.000	0.155
L26	41.000-39.500	A	0.000	0.000	1.667	0.000	0.011
		B	0.000	0.000	2.000	0.000	0.000
		C	0.000	0.000	2.000	0.000	0.047
L27	39.500-39.250	A	0.000	0.000	0.333	0.000	0.002
		B	0.000	0.000	0.333	0.000	0.000
		C	0.000	0.000	0.333	0.000	0.008
L28	39.250-38.750	A	0.000	0.000	0.667	0.000	0.004
		B	0.000	0.000	0.667	0.000	0.000
		C	0.000	0.000	0.667	0.000	0.016
L29	38.750-38.500	A	0.000	0.000	0.333	0.000	0.002
		B	0.000	0.000	0.333	0.000	0.000
		C	0.000	0.000	0.333	0.000	0.008
L30	38.500-32.250	A	0.000	0.000	4.833	0.000	0.045
		B	0.000	0.000	4.833	0.000	0.001
		C	0.000	0.000	4.833	0.000	0.194
L31	32.250-31.250	A	0.000	0.000	0.667	0.000	0.007
		B	0.000	0.000	0.667	0.000	0.000
		C	0.000	0.000	0.667	0.000	0.031
L32	31.250-26.250	A	0.000	0.000	3.333	0.000	0.036
		B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
L33	26.250-21.250	A	0.000	0.000	3.333	0.000	0.036

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	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L34	21.250-16.250	B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
		A	0.000	0.000	3.333	0.000	0.036
L35	16.250-11.250	B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
		A	0.000	0.000	3.333	0.000	0.036
L36	11.250-10.000	B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
		A	0.000	0.000	1.667	0.000	0.009
L37	10.000-9.750	B	0.000	0.000	0.833	0.000	0.000
		C	0.000	0.000	0.833	0.000	0.039
		A	0.000	0.000	0.333	0.000	0.002
L38	9.750-7.250	B	0.000	0.000	0.167	0.000	0.000
		C	0.000	0.000	0.167	0.000	0.008
		A	0.000	0.000	3.333	0.000	0.018
L39	7.250-7.000	B	0.000	0.000	1.667	0.000	0.000
		C	0.000	0.000	1.667	0.000	0.078
		A	0.000	0.000	0.333	0.000	0.002
L40	7.000-2.000	B	0.000	0.000	0.167	0.000	0.000
		C	0.000	0.000	0.167	0.000	0.008
		A	0.000	0.000	4.333	0.000	0.036
L41	2.000-0.000	B	0.000	0.000	3.333	0.000	0.001
		C	0.000	0.000	3.333	0.000	0.155
		A	0.000	0.000	1.333	0.000	0.014
		B	0.000	0.000	1.333	0.000	0.000
		C	0.000	0.000	1.333	0.000	0.062

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} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	150.000-145.000	A	0.987	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.038
L2	145.000-140.000	A	0.984	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.038
L3	140.000-135.000	A	0.980	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.071
L4	135.000-130.000	A	0.977	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.093
L5	130.000-125.000	A	0.973	0.000	0.000	0.000	0.000	0.001
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.093
L6	125.000-120.000	A	0.969	0.000	0.000	0.000	0.000	0.030
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.093
L7	120.000-115.000	A	0.965	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.093
L8	115.000-110.000	A	0.961	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.093
L9	110.000-102.500	A	0.955	0.000	0.000	0.000	0.000	0.054
		B		0.000	0.000	0.000	0.000	0.000

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 11 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L10	102.500-101.250	C		0.000	0.000	0.000	0.000	0.140
		A	0.951	0.000	0.000	0.000	0.000	0.009
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.033
L11	101.250-96.250	A	0.948	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.155
L12	96.250-91.250	A	0.944	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.155
L13	91.250-86.250	A	0.938	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.155
L14	86.250-81.250	A	0.933	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.155
L15	81.250-76.250	A	0.927	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.001
		C		0.000	0.000	0.000	0.000	0.155
L16	76.250-73.500	A	0.923	0.000	0.000	1.016	0.000	0.026
		B		0.000	0.000	1.016	0.000	0.006
		C		0.000	0.000	1.016	0.000	0.091
L17	73.500-73.250	A	0.921	0.000	0.000	0.203	0.000	0.003
		B		0.000	0.000	0.203	0.000	0.001
		C		0.000	0.000	0.203	0.000	0.009
L18	73.250-68.250	A	0.917	0.000	0.000	4.060	0.000	0.059
		B		0.000	0.000	4.060	0.000	0.024
		C		0.000	0.000	4.060	0.000	0.179
L19	68.250-62.000	A	0.910	0.000	0.000	2.839	0.000	0.061
		B		0.000	0.000	2.839	0.000	0.017
		C		0.000	0.000	2.839	0.000	0.210
L20	62.000-61.000	A	0.905	0.000	0.000	0.000	0.000	0.007
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.031
L21	61.000-56.250	A	0.900	0.000	0.000	1.058	0.000	0.040
		B		0.000	0.000	1.058	0.000	0.006
		C		0.000	0.000	1.058	0.000	0.153
L22	56.250-56.000	A	0.896	0.000	0.000	0.211	0.000	0.003
		B		0.000	0.000	0.211	0.000	0.001
		C		0.000	0.000	0.211	0.000	0.009
L23	56.000-51.000	A	0.892	0.000	0.000	4.225	0.000	0.058
		B		0.000	0.000	4.225	0.000	0.023
		C		0.000	0.000	4.225	0.000	0.178
L24	51.000-46.000	A	0.883	0.000	0.000	4.217	0.000	0.058
		B		0.000	0.000	4.217	0.000	0.023
		C		0.000	0.000	4.217	0.000	0.178
L25	46.000-41.000	A	0.874	0.000	0.000	4.207	0.000	0.058
		B		0.000	0.000	4.417	0.000	0.024
		C		0.000	0.000	4.417	0.000	0.178
L26	41.000-39.500	A	0.867	0.000	0.000	2.100	0.000	0.022
		B		0.000	0.000	2.520	0.000	0.013
		C		0.000	0.000	2.520	0.000	0.060
L27	39.500-39.250	A	0.865	0.000	0.000	0.420	0.000	0.004
		B		0.000	0.000	0.420	0.000	0.002
		C		0.000	0.000	0.420	0.000	0.010
L28	39.250-38.750	A	0.864	0.000	0.000	0.840	0.000	0.008
		B		0.000	0.000	0.840	0.000	0.004
		C		0.000	0.000	0.840	0.000	0.020
L29	38.750-38.500	A	0.863	0.000	0.000	0.420	0.000	0.004
		B		0.000	0.000	0.420	0.000	0.002
		C		0.000	0.000	0.420	0.000	0.010

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	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L30	38.500-32.250	A	0.856	0.000	0.000	6.074	0.000	0.077
		B		0.000	0.000	6.074	0.000	0.033
		C		0.000	0.000	6.074	0.000	0.226
L31	32.250-31.250	A	0.847	0.000	0.000	0.838	0.000	0.012
		B		0.000	0.000	0.838	0.000	0.005
		C		0.000	0.000	0.838	0.000	0.035
L32	31.250-26.250	A	0.838	0.000	0.000	4.172	0.000	0.057
		B		0.000	0.000	4.172	0.000	0.022
		C		0.000	0.000	4.172	0.000	0.177
L33	26.250-21.250	A	0.822	0.000	0.000	4.156	0.000	0.057
		B		0.000	0.000	4.156	0.000	0.022
		C		0.000	0.000	4.156	0.000	0.176
L34	21.250-16.250	A	0.803	0.000	0.000	4.137	0.000	0.056
		B		0.000	0.000	4.137	0.000	0.021
		C		0.000	0.000	4.137	0.000	0.176
L35	16.250-11.250	A	0.779	0.000	0.000	4.112	0.000	0.056
		B		0.000	0.000	4.112	0.000	0.020
		C		0.000	0.000	4.112	0.000	0.175
L36	11.250-10.000	A	0.759	0.000	0.000	2.043	0.000	0.018
		B		0.000	0.000	1.023	0.000	0.005
		C		0.000	0.000	1.023	0.000	0.044
L37	10.000-9.750	A	0.753	0.000	0.000	0.408	0.000	0.004
		B		0.000	0.000	0.204	0.000	0.001
		C		0.000	0.000	0.204	0.000	0.009
L38	9.750-7.250	A	0.742	0.000	0.000	4.071	0.000	0.036
		B		0.000	0.000	2.038	0.000	0.010
		C		0.000	0.000	2.038	0.000	0.087
L39	7.250-7.000	A	0.729	0.000	0.000	0.406	0.000	0.004
		B		0.000	0.000	0.203	0.000	0.001
		C		0.000	0.000	0.203	0.000	0.009
L40	7.000-2.000	A	0.696	0.000	0.000	5.235	0.000	0.058
		B		0.000	0.000	4.030	0.000	0.018
		C		0.000	0.000	4.030	0.000	0.173
L41	2.000-0.000	A	0.599	0.000	0.000	1.573	0.000	0.020
		B		0.000	0.000	1.573	0.000	0.006
		C		0.000	0.000	1.573	0.000	0.068

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
L1	150.000-145.000	0.000	0.000	0.000	0.000
L2	145.000-140.000	0.000	0.000	0.000	0.000
L3	140.000-135.000	0.000	0.000	0.000	0.000
L4	135.000-130.000	0.000	0.000	0.000	0.000
L5	130.000-125.000	0.000	0.000	0.000	0.000
L6	125.000-120.000	0.000	0.000	0.000	0.000
L7	120.000-115.000	0.000	0.000	0.000	0.000
L8	115.000-110.000	0.000	0.000	0.000	0.000
L9	110.000-102.500	0.000	0.000	0.000	0.000
L10	102.500-101.250	0.000	0.000	0.000	0.000
L11	101.250-96.250	0.000	0.000	0.000	0.000
L12	96.250-91.250	0.000	0.000	0.000	0.000
L13	91.250-86.250	0.000	0.000	0.000	0.000
L14	86.250-81.250	0.000	0.000	0.000	0.000
L15	81.250-76.250	0.000	0.000	0.000	0.000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 13 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L16	76.250-73.500	0.000	0.000	0.000	0.000
L17	73.500-73.250	0.000	0.000	0.000	0.000
L18	73.250-68.250	0.000	0.000	0.000	0.000
L19	68.250-62.000	0.000	0.000	0.000	0.000
L20	62.000-61.000	0.000	0.000	0.000	0.000
L21	61.000-56.250	0.000	0.000	0.000	0.000
L22	56.250-56.000	0.000	0.000	0.000	0.000
L23	56.000-51.000	0.000	0.000	0.000	0.000
L24	51.000-46.000	0.000	0.000	0.000	0.000
L25	46.000-41.000	0.112	0.064	0.109	0.063
L26	41.000-39.500	0.560	0.323	0.548	0.317
L27	39.500-39.250	0.000	0.000	0.000	0.000
L28	39.250-38.750	0.000	0.000	0.000	0.000
L29	38.750-38.500	0.000	0.000	0.000	0.000
L30	38.500-32.250	0.000	0.000	0.000	0.000
L31	32.250-31.250	0.000	0.000	0.000	0.000
L32	31.250-26.250	0.000	0.000	0.000	0.000
L33	26.250-21.250	0.000	0.000	0.000	0.000
L34	21.250-16.250	0.000	0.000	0.000	0.000
L35	16.250-11.250	0.000	0.000	0.000	0.000
L36	11.250-10.000	-2.086	-1.204	-2.008	-1.159
L37	10.000-9.750	-2.087	-1.205	-2.008	-1.160
L38	9.750-7.250	-2.092	-1.208	-2.011	-1.161
L39	7.250-7.000	-2.097	-1.211	-2.013	-1.162
L40	7.000-2.000	-0.677	-0.391	-0.644	-0.372
L41	2.000-0.000	0.000	0.000	0.000	0.000

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
L16	34	CCI 4" x 0.75" Plate	73.50 - 74.75	1.0000	1.0000
L16	35	CCI 4" x 0.75" Plate	73.50 - 74.75	1.0000	1.0000
L16	36	CCI 4" x 0.75" Plate	73.50 - 74.75	1.0000	1.0000
L17	34	CCI 4" x 0.75" Plate	73.25 - 73.50	1.0000	1.0000
L17	35	CCI 4" x 0.75" Plate	73.25 - 73.50	1.0000	1.0000
L17	36	CCI 4" x 0.75" Plate	73.25 - 73.50	1.0000	1.0000
L18	34	CCI 4" x 0.75" Plate	68.25 - 73.25	1.0000	1.0000
L18	35	CCI 4" x 0.75" Plate	68.25 - 73.25	1.0000	1.0000
L18	36	CCI 4" x 0.75" Plate	68.25 - 73.25	1.0000	1.0000
L19	34	CCI 4" x 0.75" Plate	64.75 - 68.25	1.0000	1.0000
L19	35	CCI 4" x 0.75" Plate	64.75 - 68.25	1.0000	1.0000
L19	36	CCI 4" x 0.75" Plate	64.75 - 68.25	1.0000	1.0000
L21	31	CCI 4" x 0.75" Plate	56.25 - 57.50	1.0000	1.0000
L21	32	CCI 4" x 0.75" Plate	56.25 - 57.50	1.0000	1.0000
L21	33	CCI 4" x 0.75" Plate	56.25 - 57.50	1.0000	1.0000
L22	31	CCI 4" x 0.75" Plate	56.00 - 56.25	1.0000	1.0000
L22	32	CCI 4" x 0.75" Plate	56.00 - 56.25	1.0000	1.0000
L22	33	CCI 4" x 0.75" Plate	56.00 - 56.25	1.0000	1.0000
L23	31	CCI 4" x 0.75" Plate	51.00 - 56.00	1.0000	1.0000
L23	32	CCI 4" x 0.75" Plate	51.00 - 56.00	1.0000	1.0000
L23	33	CCI 4" x 0.75" Plate	51.00 - 56.00	1.0000	1.0000

tnxTower

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Job
81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA,
CT (BU# 876315)

Page
14 of 49

Project

Date
14:38:46 07/22/23

Client
Crown Castle

Designed by
Jayaraj B

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L24	31	CCI 4" x 0.75" Plate	46.00 - 51.00	1.0000	1.0000
L24	32	CCI 4" x 0.75" Plate	46.00 - 51.00	1.0000	1.0000
L24	33	CCI 4" x 0.75" Plate	46.00 - 51.00	1.0000	1.0000
L25	29	CCI 4" x 1" Plate	41.00 - 41.25	1.0000	1.0000
L25	30	CCI 4" x 1" Plate	41.00 - 41.25	1.0000	1.0000
L25	31	CCI 4" x 0.75" Plate	41.00 - 46.00	1.0000	1.0000
L25	32	CCI 4" x 0.75" Plate	41.00 - 46.00	1.0000	1.0000
L25	33	CCI 4" x 0.75" Plate	41.00 - 46.00	1.0000	1.0000
L26	28	CCI 4" x 1" Plate	39.50 - 40.50	1.0000	1.0000
L26	29	CCI 4" x 1" Plate	39.50 - 41.00	1.0000	1.0000
L26	30	CCI 4" x 1" Plate	39.50 - 41.00	1.0000	1.0000
L26	31	CCI 4" x 0.75" Plate	39.50 - 41.00	1.0000	1.0000
L26	32	CCI 4" x 0.75" Plate	39.50 - 41.00	1.0000	1.0000
L26	33	CCI 4" x 0.75" Plate	39.50 - 41.00	1.0000	1.0000
L27	28	CCI 4" x 1" Plate	39.25 - 39.50	1.0000	1.0000
L27	29	CCI 4" x 1" Plate	39.25 - 39.50	1.0000	1.0000
L27	30	CCI 4" x 1" Plate	39.25 - 39.50	1.0000	1.0000
L27	31	CCI 4" x 0.75" Plate	39.25 - 39.50	1.0000	1.0000
L27	32	CCI 4" x 0.75" Plate	39.25 - 39.50	1.0000	1.0000
L27	33	CCI 4" x 0.75" Plate	39.25 - 39.50	1.0000	1.0000
L28	28	CCI 4" x 1" Plate	38.75 - 39.25	1.0000	1.0000
L28	29	CCI 4" x 1" Plate	38.75 - 39.25	1.0000	1.0000
L28	30	CCI 4" x 1" Plate	38.75 - 39.25	1.0000	1.0000
L28	31	CCI 4" x 0.75" Plate	38.75 - 39.25	1.0000	1.0000
L28	32	CCI 4" x 0.75" Plate	38.75 - 39.25	1.0000	1.0000
L28	33	CCI 4" x 0.75" Plate	38.75 - 39.25	1.0000	1.0000
L29	28	CCI 4" x 1" Plate	38.50 - 38.75	1.0000	1.0000
L29	29	CCI 4" x 1" Plate	38.50 - 38.75	1.0000	1.0000
L29	30	CCI 4" x 1" Plate	38.50 - 38.75	1.0000	1.0000
L29	31	CCI 4" x 0.75" Plate	38.50 - 38.75	1.0000	1.0000
L29	32	CCI 4" x 0.75" Plate	38.50 - 38.75	1.0000	1.0000
L29	33	CCI 4" x 0.75" Plate	38.50 - 38.75	1.0000	1.0000
L30	28	CCI 4" x 1" Plate	32.25 - 38.50	1.0000	1.0000
L30	29	CCI 4" x 1" Plate	32.25 - 38.50	1.0000	1.0000
L30	30	CCI 4" x 1" Plate	32.25 - 38.50	1.0000	1.0000
L30	31	CCI 4" x 0.75" Plate	37.50 - 38.50	1.0000	1.0000
L30	32	CCI 4" x 0.75" Plate	37.50 - 38.50	1.0000	1.0000
L30	33	CCI 4" x 0.75" Plate	37.50 - 38.50	1.0000	1.0000
L31	28	CCI 4" x 1" Plate	31.25 - 32.25	1.0000	1.0000
L31	29	CCI 4" x 1" Plate	31.25 - 32.25	1.0000	1.0000
L31	30	CCI 4" x 1" Plate	31.25 - 32.25	1.0000	1.0000
L32	28	CCI 4" x 1" Plate	26.25 - 31.25	1.0000	1.0000
L32	29	CCI 4" x 1" Plate	26.25 - 31.25	1.0000	1.0000
L32	30	CCI 4" x 1" Plate	26.25 - 31.25	1.0000	1.0000
L33	28	CCI 4" x 1" Plate	21.25 - 26.25	1.0000	1.0000
L33	29	CCI 4" x 1" Plate	21.25 - 26.25	1.0000	1.0000
L33	30	CCI 4" x 1" Plate	21.25 - 26.25	1.0000	1.0000
L34	28	CCI 4" x 1" Plate	16.25 - 21.25	1.0000	1.0000
L34	29	CCI 4" x 1" Plate	16.25 - 21.25	1.0000	1.0000
L34	30	CCI 4" x 1" Plate	16.25 - 21.25	1.0000	1.0000
L35	28	CCI 4" x 1" Plate	11.25 - 16.25	1.0000	1.0000
L35	29	CCI 4" x 1" Plate	11.25 - 16.25	1.0000	1.0000
L35	30	CCI 4" x 1" Plate	11.25 - 16.25	1.0000	1.0000
L36	27	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L36	28	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L36	29	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L36	30	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L37	27	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L37	28	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L37	29	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L37	30	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L38	27	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 15 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L38	28	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L38	29	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L38	30	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L39	27	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L39	28	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L39	29	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L39	30	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L40	27	CCI 4" x 1" Plate	2.00 - 7.00	1.0000	1.0000
L40	28	CCI 4" x 1" Plate	5.50 - 7.00	1.0000	1.0000
L40	29	CCI 4" x 1" Plate	2.00 - 7.00	1.0000	1.0000
L40	30	CCI 4" x 1" Plate	2.00 - 7.00	1.0000	1.0000
L41	27	CCI 4" x 1" Plate	0.00 - 2.00	1.0000	1.0000
L41	29	CCI 4" x 1" Plate	0.00 - 2.00	1.0000	1.0000
L41	30	CCI 4" x 1" Plate	0.00 - 2.00	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
L16	34	CCI 4" x 0.75" Plate	73.50 - 74.75	Auto	0.0000
L16	35	CCI 4" x 0.75" Plate	73.50 - 74.75	Auto	0.0000
L16	36	CCI 4" x 0.75" Plate	73.50 - 74.75	Auto	0.0000
L17	34	CCI 4" x 0.75" Plate	73.25 - 73.50	Auto	0.0000
L17	35	CCI 4" x 0.75" Plate	73.25 - 73.50	Auto	0.0000
L17	36	CCI 4" x 0.75" Plate	73.25 - 73.50	Auto	0.0000
L18	34	CCI 4" x 0.75" Plate	68.25 - 73.25	Auto	0.0000
L18	35	CCI 4" x 0.75" Plate	68.25 - 73.25	Auto	0.0000
L18	36	CCI 4" x 0.75" Plate	68.25 - 73.25	Auto	0.0000
L19	34	CCI 4" x 0.75" Plate	64.75 - 68.25	Auto	0.0000
L19	35	CCI 4" x 0.75" Plate	64.75 - 68.25	Auto	0.0000
L19	36	CCI 4" x 0.75" Plate	64.75 - 68.25	Auto	0.0000
L21	31	CCI 4" x 0.75" Plate	56.25 - 57.50	Auto	0.0000
L21	32	CCI 4" x 0.75" Plate	56.25 - 57.50	Auto	0.0000
L21	33	CCI 4" x 0.75" Plate	56.25 - 57.50	Auto	0.0000
L22	31	CCI 4" x 0.75" Plate	56.00 - 56.25	Auto	0.0000
L22	32	CCI 4" x 0.75" Plate	56.00 - 56.25	Auto	0.0000
L22	33	CCI 4" x 0.75" Plate	56.00 - 56.25	Auto	0.0000
L23	31	CCI 4" x 0.75" Plate	51.00 - 56.00	Auto	0.0000
L23	32	CCI 4" x 0.75" Plate	51.00 - 56.00	Auto	0.0000
L23	33	CCI 4" x 0.75" Plate	51.00 - 56.00	Auto	0.0000
L24	31	CCI 4" x 0.75" Plate	46.00 - 51.00	Auto	0.0000
L24	32	CCI 4" x 0.75" Plate	46.00 - 51.00	Auto	0.0000
L24	33	CCI 4" x 0.75" Plate	46.00 - 51.00	Auto	0.0000
L25	29	CCI 4" x 1" Plate	41.00 - 41.25	Auto	0.0000
L25	30	CCI 4" x 1" Plate	41.00 - 41.25	Auto	0.0000
L25	31	CCI 4" x 0.75" Plate	41.00 - 46.00	Auto	0.0000
L25	32	CCI 4" x 0.75" Plate	41.00 - 46.00	Auto	0.0000
L25	33	CCI 4" x 0.75" Plate	41.00 - 46.00	Auto	0.0000
L26	28	CCI 4" x 1" Plate	39.50 - 40.50	Auto	0.0000
L26	29	CCI 4" x 1" Plate	39.50 - 41.00	Auto	0.0000
L26	30	CCI 4" x 1" Plate	39.50 - 41.00	Auto	0.0000
L26	31	CCI 4" x 0.75" Plate	39.50 - 41.00	Auto	0.0000
L26	32	CCI 4" x 0.75" Plate	39.50 - 41.00	Auto	0.0000

tnxTower

B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

Job
 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA,
 CT (BU# 876315)

Page
 16 of 49

Project
Date
 14:38:46 07/22/23

Client
 Crown Castle
Designed by
 Jayaraj B

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L26	33	CCI 4" x 0.75" Plate	39.50 - 41.00	Auto	0.0000
L27	28	CCI 4" x 1" Plate	39.25 - 39.50	Auto	0.0000
L27	29	CCI 4" x 1" Plate	39.25 - 39.50	Auto	0.0000
L27	30	CCI 4" x 1" Plate	39.25 - 39.50	Auto	0.0000
L27	31	CCI 4" x 0.75" Plate	39.25 - 39.50	Auto	0.0000
L27	32	CCI 4" x 0.75" Plate	39.25 - 39.50	Auto	0.0000
L27	33	CCI 4" x 0.75" Plate	39.25 - 39.50	Auto	0.0000
L28	28	CCI 4" x 1" Plate	38.75 - 39.25	Auto	0.0000
L28	29	CCI 4" x 1" Plate	38.75 - 39.25	Auto	0.0000
L28	30	CCI 4" x 1" Plate	38.75 - 39.25	Auto	0.0000
L28	31	CCI 4" x 0.75" Plate	38.75 - 39.25	Auto	0.0000
L28	32	CCI 4" x 0.75" Plate	38.75 - 39.25	Auto	0.0000
L28	33	CCI 4" x 0.75" Plate	38.75 - 39.25	Auto	0.0000
L29	28	CCI 4" x 1" Plate	38.50 - 38.75	Auto	0.0000
L29	29	CCI 4" x 1" Plate	38.50 - 38.75	Auto	0.0000
L29	30	CCI 4" x 1" Plate	38.50 - 38.75	Auto	0.0000
L29	31	CCI 4" x 0.75" Plate	38.50 - 38.75	Auto	0.0000
L29	32	CCI 4" x 0.75" Plate	38.50 - 38.75	Auto	0.0000
L29	33	CCI 4" x 0.75" Plate	38.50 - 38.75	Auto	0.0000
L30	28	CCI 4" x 1" Plate	32.25 - 38.50	Auto	0.0000
L30	29	CCI 4" x 1" Plate	32.25 - 38.50	Auto	0.0000
L30	30	CCI 4" x 1" Plate	32.25 - 38.50	Auto	0.0000
L30	31	CCI 4" x 0.75" Plate	37.50 - 38.50	Auto	0.0000
L30	32	CCI 4" x 0.75" Plate	37.50 - 38.50	Auto	0.0000
L30	33	CCI 4" x 0.75" Plate	37.50 - 38.50	Auto	0.0000
L31	28	CCI 4" x 1" Plate	31.25 - 32.25	Auto	0.0000
L31	29	CCI 4" x 1" Plate	31.25 - 32.25	Auto	0.0000
L31	30	CCI 4" x 1" Plate	31.25 - 32.25	Auto	0.0000
L32	28	CCI 4" x 1" Plate	26.25 - 31.25	Auto	0.0000
L32	29	CCI 4" x 1" Plate	26.25 - 31.25	Auto	0.0000
L32	30	CCI 4" x 1" Plate	26.25 - 31.25	Auto	0.0000
L33	28	CCI 4" x 1" Plate	21.25 - 26.25	Auto	0.0000
L33	29	CCI 4" x 1" Plate	21.25 - 26.25	Auto	0.0000
L33	30	CCI 4" x 1" Plate	21.25 - 26.25	Auto	0.0000
L34	28	CCI 4" x 1" Plate	16.25 - 21.25	Auto	0.0000
L34	29	CCI 4" x 1" Plate	16.25 - 21.25	Auto	0.0000
L34	30	CCI 4" x 1" Plate	16.25 - 21.25	Auto	0.0000
L35	28	CCI 4" x 1" Plate	11.25 - 16.25	Auto	0.0000
L35	29	CCI 4" x 1" Plate	11.25 - 16.25	Auto	0.0000
L35	30	CCI 4" x 1" Plate	11.25 - 16.25	Auto	0.0000
L36	27	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L36	28	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L36	29	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L36	30	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L37	27	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L37	28	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L37	29	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L37	30	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L38	27	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L38	28	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L38	29	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L38	30	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L39	27	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L39	28	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L39	29	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L39	30	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L40	27	CCI 4" x 1" Plate	2.00 - 7.00	Auto	0.0000
L40	28	CCI 4" x 1" Plate	5.50 - 7.00	Auto	0.0000
L40	29	CCI 4" x 1" Plate	2.00 - 7.00	Auto	0.0000
L40	30	CCI 4" x 1" Plate	2.00 - 7.00	Auto	0.0000
L41	27	CCI 4" x 1" Plate	0.00 - 2.00	Auto	0.0000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 17 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L41	29	CCI 4" x 1" Plate	0.00 - 2.00	Auto	0.0000
L41	30	CCI 4" x 1" Plate	0.00 - 2.00	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight	
			Horz Lateral	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
Lightning Rod 5/8" x 6'	B	From Leg	4.000	0.000	0.000	153.000	No Ice	0.375	0.375	0.006
			0.000	0.000			1/2" Ice	0.989	0.989	0.010
			0.000	0.000			1" Ice	1.619	1.619	0.019
*										
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	150.000	No Ice	14.694	6.873	0.183
			0.000	0.000			1/2" Ice	15.455	7.554	0.311
			0.000	0.000			1" Ice	16.230	8.247	0.453
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	150.000	No Ice	14.694	6.873	0.183
			0.000	0.000			1/2" Ice	15.455	7.554	0.311
			0.000	0.000			1" Ice	16.230	8.247	0.453
APXVAALL24_43-U-NA20 _TMO w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	150.000	No Ice	14.694	6.873	0.183
			0.000	0.000			1/2" Ice	15.455	7.554	0.311
			0.000	0.000			1" Ice	16.230	8.247	0.453
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	150.000	No Ice	5.187	2.705	0.128
			0.000	0.000			1/2" Ice	5.594	3.038	0.174
			1.000	0.000			1" Ice	6.016	3.385	0.227
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	150.000	No Ice	5.187	2.705	0.128
			0.000	0.000			1/2" Ice	5.594	3.038	0.174
			1.000	0.000			1" Ice	6.016	3.385	0.227
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	150.000	No Ice	5.187	2.705	0.128
			0.000	0.000			1/2" Ice	5.594	3.038	0.174
			1.000	0.000			1" Ice	6.016	3.385	0.227
RADIO 4460 B2/B25 B66_TMO	A	From Leg	4.000	0.000	0.000	150.000	No Ice	2.139	1.686	0.109
			0.000	0.000			1/2" Ice	2.321	1.850	0.131
			0.000	0.000			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000	0.000	0.000	150.000	No Ice	2.139	1.686	0.109
			0.000	0.000			1/2" Ice	2.321	1.850	0.131
			0.000	0.000			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000	0.000	0.000	150.000	No Ice	2.139	1.686	0.109
			0.000	0.000			1/2" Ice	2.321	1.850	0.131
			0.000	0.000			1" Ice	2.511	2.022	0.156
RADIO 4480 B71_TMO	A	From Leg	4.000	0.000	0.000	150.000	No Ice	2.852	1.383	0.093
			0.000	0.000			1/2" Ice	3.064	1.543	0.114
			0.000	0.000			1" Ice	3.284	1.710	0.139
RADIO 4480 B71_TMO	B	From Leg	4.000	0.000	0.000	150.000	No Ice	2.852	1.383	0.093
			0.000	0.000			1/2" Ice	3.064	1.543	0.114
			0.000	0.000			1" Ice	3.284	1.710	0.139
RADIO 4480 B71_TMO	C	From Leg	4.000	0.000	0.000	150.000	No Ice	2.852	1.383	0.093
			0.000	0.000			1/2" Ice	3.064	1.543	0.114
			0.000	0.000			1" Ice	3.284	1.710	0.139
201-7	A	From Leg	4.000	0.000	0.000	150.000	No Ice	1.087	1.087	0.004
			0.000	0.000			1/2" Ice	1.937	1.937	0.013
			0.000	0.000						

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 18 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
			Horz Lateral ft	Vert ft						
6' x 2" Mount Pipe	A	From Face	4.000		0.000	150.000	1" Ice	2.802	2.802	0.028
			4.000				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
6' x 2" Mount Pipe	B	From Face	4.000		0.000	150.000	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
			0.000				1" Ice	2.294	2.294	0.048
6' x 2" Mount Pipe	C	From Face	4.000		0.000	150.000	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
			0.000				1" Ice	2.294	2.294	0.048
4' x 2" Pipe Mount	A	From Leg	1.000		0.000	147.000	No Ice	0.866	0.866	0.015
			0.000				1/2" Ice	1.111	1.111	0.022
			0.000				1" Ice	1.365	1.365	0.032
			0.000				1" Ice	1.365	1.365	0.032
4' x 2" Pipe Mount	B	From Leg	1.000		0.000	147.000	No Ice	0.866	0.866	0.015
			0.000				1/2" Ice	1.111	1.111	0.022
			0.000				1" Ice	1.365	1.365	0.032
			0.000				1" Ice	1.365	1.365	0.032
4' x 2" Pipe Mount	C	From Leg	1.000		0.000	147.000	No Ice	0.866	0.866	0.015
			0.000				1/2" Ice	1.111	1.111	0.022
			0.000				1" Ice	1.365	1.365	0.032
			0.000				1" Ice	1.365	1.365	0.032
Miscellaneous [NA 510-1]	C	None			0.000	150.000	No Ice	6.360	6.360	0.256
							1/2" Ice	8.520	8.520	0.344
							1" Ice	10.620	10.620	0.459
							1" Ice	10.620	10.620	0.459
Side Arm Mount [SO 102-3]	C	None			0.000	147.000	No Ice	3.600	3.600	0.075
							1/2" Ice	4.180	4.180	0.105
							1" Ice	4.750	4.750	0.135
							1" Ice	4.750	4.750	0.135
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None			0.000	150.000	No Ice	37.610	37.610	2.631
							1/2" Ice	45.620	45.620	3.478
							1" Ice	53.590	53.590	4.462
							1" Ice	53.590	53.590	4.462
*										
(2) ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000		0.000	138.000	No Ice	3.145	2.585	0.112
			0.000				1/2" Ice	3.454	2.884	0.164
			0.000				1" Ice	3.772	3.192	0.225
			0.000				1" Ice	3.772	3.192	0.225
(2) ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000		0.000	138.000	No Ice	3.145	2.585	0.112
			0.000				1/2" Ice	3.454	2.884	0.164
			0.000				1" Ice	3.772	3.192	0.225
			0.000				1" Ice	3.772	3.192	0.225
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000		0.000	138.000	No Ice	3.763	3.146	0.194
			0.000				1/2" Ice	4.117	3.489	0.252
			0.000				1" Ice	4.480	3.842	0.320
			0.000				1" Ice	4.480	3.842	0.320
(2) AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000		0.000	138.000	No Ice	3.763	3.146	0.194
			0.000				1/2" Ice	4.117	3.489	0.252
			0.000				1" Ice	4.480	3.842	0.320
			0.000				1" Ice	4.480	3.842	0.320
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000		0.000	138.000	No Ice	3.763	3.146	0.194
			0.000				1/2" Ice	4.117	3.489	0.252
			0.000				1" Ice	4.480	3.842	0.320
			0.000				1" Ice	4.480	3.842	0.320
APXVAA24_43-U-A20 w/ Mount Pipe	A	From Leg	4.000		0.000	138.000	No Ice	14.694	6.873	0.157
			0.000				1/2" Ice	15.455	7.554	0.285
			0.000				1" Ice	16.230	8.247	0.427
			0.000				1" Ice	16.230	8.247	0.427
(2) APXVAA24_43-U-A20 w/ Mount Pipe	B	From Leg	4.000		0.000	138.000	No Ice	14.694	6.873	0.157
			0.000				1/2" Ice	15.455	7.554	0.285
			0.000				1" Ice	16.230	8.247	0.427
			0.000				1" Ice	16.230	8.247	0.427
APXVAA24_43-U-A20 w/ Mount Pipe	C	From Leg	4.000		0.000	138.000	No Ice	14.694	6.873	0.157
			0.000				1/2" Ice	15.455	7.554	0.285
			0.000				1" Ice	16.230	8.247	0.427
			0.000				1" Ice	16.230	8.247	0.427
(3) ATMA4P4DBP-1A20	A	From Leg	4.000		0.000	138.000	No Ice	0.747	0.457	0.017
			0.000				1/2" Ice	0.857	0.550	0.024
			0.000				1" Ice	0.975	0.651	0.032
			0.000				1" Ice	0.975	0.651	0.032
(4) RRUS 11 B12	A	From Leg	4.000		0.000	138.000	No Ice	2.833	1.182	0.051

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 19 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
			Horz Lateral ft	Vert ft						
(4) RADIO 4449	A	From Leg	0.000		0.000	138.000	1/2" Ice	3.043	1.330	0.072
			0.000				1" Ice	3.259	1.485	0.095
			4.000				No Ice	3.500	2.359	0.085
			0.000				1/2" Ice	3.743	2.566	0.114
(2) RADIO 4449	B	From Leg	0.000		0.000	138.000	1" Ice	3.993	2.779	0.147
			4.000				No Ice	3.500	2.359	0.085
			0.000				1/2" Ice	3.743	2.566	0.114
			0.000				1" Ice	3.993	2.779	0.147
(2) RADIO 4449	C	From Leg	4.000		0.000	138.000	No Ice	3.500	2.359	0.085
			0.000				1/2" Ice	3.743	2.566	0.114
			0.000				1" Ice	3.993	2.779	0.147
			0.000				No Ice	3.500	2.359	0.085
GPS_A	A	From Leg	4.000		0.000	138.000	1/2" Ice	3.743	2.566	0.114
			0.000				1" Ice	3.993	2.779	0.147
			0.000				No Ice	0.255	0.255	0.001
			0.000				1/2" Ice	0.320	0.320	0.005
5' x 2" Pipe Mount	A	From Leg	0.000		0.000	138.000	1" Ice	0.393	0.393	0.010
			4.000				No Ice	1.188	1.188	0.018
			0.000				1/2" Ice	1.496	1.496	0.027
			0.000				1" Ice	1.807	1.807	0.040
Platform Mount [LP 701-1]	C	None			0.000	138.000	No Ice	58.680	58.680	2.750
							1/2" Ice	66.010	66.010	3.841
							1" Ice	73.410	73.410	5.069
* TMA-DB-T1-6Z-8AB-0Z	A	From Leg	1.000		0.000	126.000	No Ice	4.800	2.000	0.044
			0.000				1/2" Ice	5.070	2.193	0.080
			3.000				1" Ice	5.348	2.393	0.120
* BXA-70080/4CF w/ Mount Pipe	A	From Leg	4.000		0.000	124.000	No Ice	4.933	3.642	0.052
			0.000				1/2" Ice	5.457	4.139	0.092
			2.000				1" Ice	5.998	4.653	0.139
			0.000				No Ice	4.835	3.650	0.028
BXA-80063/4CF w/ Mount Pipe	B	From Leg	4.000		0.000	124.000	1/2" Ice	5.347	4.137	0.065
			0.000				1" Ice	5.875	4.641	0.109
			2.000				No Ice	4.835	3.650	0.028
			0.000				1/2" Ice	5.347	4.137	0.065
BXA-80063/4CF w/ Mount Pipe	C	From Leg	4.000		0.000	124.000	1" Ice	5.875	4.641	0.109
			0.000				No Ice	0.255	0.255	0.001
			2.000				1/2" Ice	0.320	0.320	0.005
			0.000				1" Ice	0.393	0.393	0.010
Sub6 Antenna - VZS01 w/ Mount Pipe	A	From Leg	4.000		0.000	124.000	No Ice	4.915	2.687	0.101
			0.000				1/2" Ice	5.264	3.151	0.141
			3.000				1" Ice	5.623	3.631	0.186
			0.000				No Ice	4.915	2.687	0.101
Sub6 Antenna - VZS01 w/ Mount Pipe	B	From Leg	4.000		0.000	124.000	1/2" Ice	5.264	3.151	0.141
			0.000				1" Ice	5.623	3.631	0.186
			3.000				No Ice	4.915	2.687	0.101
			0.000				1/2" Ice	5.264	3.151	0.141
Sub6 Antenna - VZS01 w/ Mount Pipe	C	From Leg	4.000		0.000	124.000	1" Ice	5.623	3.631	0.186
			0.000				No Ice	4.915	2.687	0.101
			3.000				1/2" Ice	5.264	3.151	0.141
			0.000				1" Ice	5.623	3.631	0.186
(2) MX06FRO660-03	A	From Leg	4.000		0.000	124.000	No Ice	6.810	4.666	0.078
			0.000				1/2" Ice	7.366	5.192	0.147
			3.000				1" Ice	7.934	5.730	0.222
			0.000				No Ice	6.810	4.666	0.078
(2) MX06FRO660-03	B	From Leg	4.000		0.000	124.000	1/2" Ice	7.366	5.192	0.147
			0.000				1" Ice	7.934	5.730	0.222
			3.000				No Ice	6.810	4.666	0.078
			0.000				1/2" Ice	7.366	5.192	0.147
(2) MX06FRO660-03	C	From Leg	4.000		0.000	124.000	1" Ice	7.934	5.730	0.222
			0.000				No Ice	6.810	4.666	0.078
			3.000				1/2" Ice	7.366	5.192	0.147
			0.000				1" Ice	7.934	5.730	0.222
RFV01U-D1A	A	From Leg	4.000		0.000	124.000	No Ice	1.875	1.250	0.084
			0.000				1/2" Ice	2.045	1.393	0.103

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 20 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
			Horz Lateral ft	Vert ft						
(2) RFV01U-D1A	B	From Leg	3.000		0.000	124.000	1" Ice	2.223	1.543	0.124
			4.000				No Ice	1.875	1.250	0.084
			0.000				1/2" Ice	2.045	1.393	0.103
RFV01U-D2A	A	From Leg	3.000		0.000	124.000	1" Ice	2.223	1.543	0.124
			4.000				No Ice	1.875	1.013	0.070
			0.000				1/2" Ice	2.045	1.145	0.087
(2) RFV01U-D2A	C	From Leg	3.000		0.000	124.000	1" Ice	2.223	1.284	0.106
			4.000				No Ice	1.875	1.013	0.070
			0.000				1/2" Ice	2.045	1.145	0.087
RVZDC-6627-PF-48	A	From Leg	3.000		0.000	124.000	1" Ice	2.223	1.284	0.106
			4.000				No Ice	3.792	2.514	0.032
			0.000				1/2" Ice	4.044	2.727	0.063
BSF0020F3V1	C	From Leg	3.000		0.000	124.000	1" Ice	4.303	2.947	0.099
			4.000				No Ice	0.963	0.287	0.018
			0.000				1/2" Ice	1.086	0.364	0.024
(2) 6' x 2" Mount Pipe	A	From Leg	3.000		0.000	124.000	1" Ice	1.217	0.449	0.033
			4.000				No Ice	1.425	1.425	0.022
			0.000				1/2" Ice	1.925	1.925	0.033
(2) 6' x 2" Mount Pipe	B	From Leg	3.000		0.000	124.000	1" Ice	2.294	2.294	0.048
			4.000				No Ice	1.425	1.425	0.022
			0.000				1/2" Ice	1.925	1.925	0.033
(3) 6' x 2" Mount Pipe	C	From Leg	3.000		0.000	124.000	1" Ice	2.294	2.294	0.048
			4.000				No Ice	1.425	1.425	0.022
			0.000				1/2" Ice	1.925	1.925	0.033
3' x 2" Pipe Mount	C	From Leg	3.000		0.000	124.000	1" Ice	2.294	2.294	0.048
			4.000				No Ice	0.583	0.583	0.011
			0.000				1/2" Ice	0.770	0.770	0.017
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None	2.000		0.000	124.000	1" Ice	0.967	0.967	0.024
							No Ice	37.610	37.610	2.631
							1/2" Ice	45.620	45.620	3.478
* OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.000		0.000	102.000	No Ice	12.248	6.047	0.089
			0.000				1/2" Ice	12.998	6.710	0.176
			2.000				1" Ice	13.764	7.388	0.275
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.000		0.000	102.000	No Ice	12.248	6.047	0.089
			0.000				1/2" Ice	12.998	6.710	0.176
			2.000				1" Ice	13.764	7.388	0.275
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.000		0.000	102.000	No Ice	12.248	6.047	0.089
			0.000				1/2" Ice	12.998	6.710	0.176
			2.000				1" Ice	13.764	7.388	0.275
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.000		0.000	102.000	No Ice	11.961	5.969	0.115
			0.000				1/2" Ice	12.703	6.627	0.201
			2.000				1" Ice	13.461	7.300	0.298
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.000		0.000	102.000	No Ice	11.961	5.969	0.115
			0.000				1/2" Ice	12.703	6.627	0.201
			2.000				1" Ice	13.461	7.300	0.298
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.000		0.000	102.000	No Ice	11.961	5.969	0.115
			0.000				1/2" Ice	12.703	6.627	0.201
			2.000				1" Ice	13.461	7.300	0.298
7770.00 w/ Mount Pipe	A	From Leg	4.000		0.000	102.000	No Ice	3.385	2.323	0.055
			0.000				1/2" Ice	3.746	2.664	0.098
			0.000				1" Ice	4.117	3.016	0.149
7770.00 w/ Mount Pipe	B	From Leg	4.000		0.000	102.000	No Ice	3.385	2.323	0.055
			0.000				1/2" Ice	3.746	2.664	0.098
			0.000				1" Ice	4.117	3.016	0.149
7770.00 w/ Mount Pipe	C	From Leg	4.000		0.000	102.000	No Ice	3.385	2.323	0.055

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job		81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))		Page		21 of 49	
	Project				Date		14:38:46 07/22/23	
	Client		Crown Castle		Designed by		Jayaraj B	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			0.000						
			0.000			1/2" Ice	3.746	2.664	0.098
			0.000			1" Ice	4.117	3.016	0.149
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	102.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			2.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	102.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			2.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	102.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			2.000			1" Ice	2.328	1.727	0.111
RRUS 8843 B2/B66A	A	From Leg	4.000	0.000	102.000	No Ice	1.639	1.353	0.072
			0.000			1/2" Ice	1.799	1.500	0.090
			2.000			1" Ice	1.966	1.655	0.110
RRUS 8843 B2/B66A	B	From Leg	4.000	0.000	102.000	No Ice	1.639	1.353	0.072
			0.000			1/2" Ice	1.799	1.500	0.090
			2.000			1" Ice	1.966	1.655	0.110
RRUS 8843 B2/B66A	C	From Leg	4.000	0.000	102.000	No Ice	1.639	1.353	0.072
			0.000			1/2" Ice	1.799	1.500	0.090
			2.000			1" Ice	1.966	1.655	0.110
LGP12104	A	From Leg	4.000	0.000	102.000	No Ice	0.443	0.024	0.002
			0.000			1/2" Ice	0.568	0.048	0.005
			2.000			1" Ice	0.700	0.080	0.010
LGP12104	B	From Leg	4.000	0.000	102.000	No Ice	0.443	0.024	0.002
			0.000			1/2" Ice	0.568	0.048	0.005
			2.000			1" Ice	0.700	0.080	0.010
LGP12104	C	From Leg	4.000	0.000	102.000	No Ice	0.443	0.024	0.002
			0.000			1/2" Ice	0.568	0.048	0.005
			2.000			1" Ice	0.700	0.080	0.010
DC6-48-60-18-8F	A	From Leg	4.000	0.000	102.000	No Ice	0.850	0.850	0.019
			0.000			1/2" Ice	1.356	1.356	0.036
			2.000			1" Ice	1.532	1.532	0.055
DC6-48-60-18-8F	B	From Leg	4.000	0.000	102.000	No Ice	0.850	0.850	0.019
			0.000			1/2" Ice	1.356	1.356	0.036
			2.000			1" Ice	1.532	1.532	0.055
3' x 2" Pipe Mount	A	From Leg	3.000	0.000	102.000	No Ice	0.583	0.583	0.011
			0.000			1/2" Ice	0.770	0.770	0.017
			1.000			1" Ice	0.967	0.967	0.024
3' x 2" Pipe Mount	B	From Leg	3.000	0.000	102.000	No Ice	0.583	0.583	0.011
			0.000			1/2" Ice	0.770	0.770	0.017
			1.000			1" Ice	0.967	0.967	0.024
3' x 2" Pipe Mount	C	From Leg	3.000	0.000	102.000	No Ice	0.583	0.583	0.011
			0.000			1/2" Ice	0.770	0.770	0.017
			1.000			1" Ice	0.967	0.967	0.024
(2) L 2.5x2.5x3/16x6'	A	From Leg	4.000	0.000	102.000	No Ice	1.500	0.005	0.025
			0.000			1/2" Ice	1.918	0.024	0.034
			-3.000			1" Ice	2.343	0.049	0.048
(2) L 2.5x2.5x3/16x6'	B	From Leg	4.000	0.000	102.000	No Ice	1.500	0.005	0.025
			0.000			1/2" Ice	1.918	0.024	0.034
			-3.000			1" Ice	2.343	0.049	0.048
(2) L 2.5x2.5x3/16x6'	C	From Leg	4.000	0.000	102.000	No Ice	1.500	0.005	0.025
			0.000			1/2" Ice	1.918	0.024	0.034
			-3.000			1" Ice	2.343	0.049	0.048
14.5' x 2.375" horizontal mount pipe	A	From Leg	4.000	0.000	102.000	No Ice	5.740	0.000	0.053
			0.000			1/2" Ice	7.379	1.617	0.072
			3.000			1" Ice	9.030	3.247	0.103
14.5' x 2.375" horizontal	B	From Leg	4.000	0.000	102.000	No Ice	5.740	0.000	0.053

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 22 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _{Front}	C _A A _{Side}	Weight
			Horz Lateral	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
mount pipe			0.000			1/2" Ice	7.379	1.617	0.072
			3.000			1" Ice	9.030	3.247	0.103
14.5' x 2.375" horizontal mount pipe	C	From Leg	4.000	0.000	102.000	No Ice	5.740	0.000	0.053
			0.000			1/2" Ice	7.379	1.617	0.072
			3.000			1" Ice	9.030	3.247	0.103
7'x2.375" Horizontal Mount Pipe	A	From Face	4.000	0.000	102.000	No Ice	1.663	1.663	0.026
			0.000			1/2" Ice	2.391	2.391	0.039
			3.000			1" Ice	2.825	2.825	0.056
7'x2.375" Horizontal Mount Pipe	B	From Face	4.000	0.000	102.000	No Ice	1.663	1.663	0.026
			0.000			1/2" Ice	2.391	2.391	0.039
			3.000			1" Ice	2.825	2.825	0.056
7'x2.375" Horizontal Mount Pipe	C	From Face	4.000	0.000	102.000	No Ice	1.663	1.663	0.026
			0.000			1/2" Ice	2.391	2.391	0.039
			3.000			1" Ice	2.825	2.825	0.056
Platform Mount [LP 1201-1]	C	None		0.000	102.000	No Ice	18.380	18.380	2.100
						1/2" Ice	22.110	22.110	2.652
						1" Ice	25.870	25.870	3.263
*									
KS24019-L112A	A	From Leg	4.000	0.000	82.000	No Ice	0.141	0.141	0.005
			0.000			1/2" Ice	0.198	0.198	0.007
			1.000			1" Ice	0.262	0.262	0.009
Side Arm Mount [SO 701-1]	A	From Leg	2.000	0.000	82.000	No Ice	0.850	1.670	0.065
			0.000			1/2" Ice	1.140	2.340	0.079
			0.000			1" Ice	1.430	3.010	0.093
*									
*									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							
			ft	ft	°	°	ft	ft	ft ²	K		
SC2-W100AC	A	Paraboloid w/Shroud (HP)	From Leg	4.000	0.000	0.000		138.000	2.200	No Ice	3.801	0.022
				0.000						1/2" Ice	4.095	0.043
				0.000						1" Ice	4.388	0.064
*												

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

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 23 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Comb. No.	Description
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	150 - 145	Pole	Max Tension	26	0.000	0.000	-0.000
			Max. Compression	26	-9.702	-0.094	0.131
			Max. Mx	8	-5.354	-25.120	-0.004
			Max. My	2	-5.341	-0.013	25.160
			Max. Vy	8	5.238	-25.120	-0.004
			Max. Vx	2	-5.252	-0.013	25.160
			Max. Torque	10			0.187
			Max Tension	1	0.000	0.000	0.000
L2	145 - 140	Pole	Max Tension	1	0.000	0.000	0.000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 24 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L3	140 - 135	Pole	Max. Compression	26	-10.277	-0.106	0.173
			Max. Mx	8	-5.735	-52.346	0.007
			Max. My	2	-5.720	-0.003	52.456
			Max. Vy	8	5.655	-52.346	0.007
			Max. Vx	2	-5.669	-0.003	52.456
			Max. Torque	10			0.187
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-22.645	-1.505	4.305
			Max. Mx	8	-12.157	-101.019	1.936
			Max. My	2	-12.095	-0.263	103.743
L4	135 - 130	Pole	Max. Vy	8	12.308	-101.019	1.936
			Max. Vx	14	12.611	-0.968	-98.939
			Max. Torque	8			2.468
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-23.324	-1.528	4.391
			Max. Mx	8	-12.651	-163.611	1.547
			Max. My	2	-12.590	0.252	167.710
			Max. Vy	8	12.734	-163.611	1.547
			Max. Vx	14	13.038	-1.505	-163.050
			Max. Torque	8			2.468
L5	130 - 125	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-24.151	-1.549	4.738
			Max. Mx	8	-13.215	-228.634	1.245
			Max. My	2	-13.141	0.768	234.644
			Max. Vy	8	13.241	-228.634	1.245
			Max. Vx	14	13.652	-2.040	-229.911
			Max. Torque	8			2.637
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-33.527	-1.256	5.300
			Max. Mx	8	-18.352	-319.538	1.122
L6	125 - 120	Pole	Max. My	2	-18.266	1.280	328.030
			Max. Vy	8	18.084	-319.538	1.122
			Max. Vx	14	18.536	-2.391	-323.052
			Max. Torque	8			2.913
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-34.306	-1.280	5.394
			Max. Mx	8	-18.985	-410.927	0.800
			Max. My	2	-18.902	1.732	421.535
			Max. Vy	8	18.488	-410.927	0.800
			Max. Vx	14	18.940	-2.865	-416.703
L7	120 - 115	Pole	Max. Torque	8			2.912
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-35.104	-1.303	5.479
			Max. Mx	8	-19.646	-504.309	0.473
			Max. My	2	-19.567	2.184	517.029
			Max. Vy	8	18.884	-504.309	0.473
			Max. Vx	14	19.336	-3.337	-512.346
			Max. Torque	8			2.911
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-35.717	-1.318	5.538
L8	115 - 110	Pole	Max. Mx	8	-20.158	-575.628	0.226
			Max. My	2	-20.081	2.523	589.929
			Max. Vy	8	19.177	-575.628	0.226
			Max. Vx	14	19.629	-3.689	-585.361
			Max. Torque	8			2.909
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.823	-1.596	5.764
			Max. Mx	8	-25.485	-680.212	-0.050
			Max. My	2	-25.403	2.882	696.583
			Max. Vy	8	23.430	-680.212	-0.050
L9	110 - 102.5	Pole	Max. Vx	14	23.891	-4.253	-692.050
			Max. Torque	8			2.909
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-44.823	-1.596	5.764
			Max. Mx	8	-25.485	-680.212	-0.050
L10	102.5 - 101.25	Pole	Max. My	2	-25.403	2.882	696.583
			Max. Vy	8	23.430	-680.212	-0.050
			Max. Vx	14	23.891	-4.253	-692.050
			Max. Torque	8			2.909
			Max Tension	1	0.000	0.000	0.000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 25 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L11	101.25 - 96.25	Pole	Max. Torque	8			2.967
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-45.859	-1.619	5.849
			Max. Mx	8	-26.414	-798.235	-0.383
			Max. My	2	-26.336	3.341	816.753
			Max. Vy	8	23.808	-798.235	-0.383
			Max. Vx	14	24.268	-4.732	-812.371
L12	96.25 - 91.25	Pole	Max. Torque	8			2.966
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-46.917	-1.639	5.927
			Max. Mx	8	-27.371	-918.129	-0.719
			Max. My	2	-27.298	3.799	938.785
			Max. Vy	8	24.178	-918.129	-0.719
			Max. Vx	14	24.637	-5.208	-934.558
L13	91.25 - 86.25	Pole	Max. Torque	8			2.964
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-47.997	-1.658	5.998
			Max. Mx	8	-28.357	-1039.838	-1.058
			Max. My	2	-28.289	4.256	1062.625
			Max. Vy	8	24.537	-1039.838	-1.058
			Max. Vx	14	24.994	-5.681	-1058.555
L14	86.25 - 81.25	Pole	Max. Torque	8			2.962
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-49.213	-1.674	6.467
			Max. Mx	8	-29.451	-1163.362	-1.117
			Max. My	2	-29.389	4.711	1188.545
			Max. Vy	8	24.951	-1163.362	-1.117
			Max. Vx	14	25.380	-6.150	-1184.043
L15	81.25 - 76.25	Pole	Max. Torque	8			3.168
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.337	-1.689	6.525
			Max. Mx	8	-30.494	-1288.866	-1.460
			Max. My	2	-30.437	5.165	1316.022
			Max. Vy	8	25.287	-1288.866	-1.460
			Max. Vx	14	25.714	-6.615	-1311.683
L16	76.25 - 73.5	Pole	Max. Torque	8			3.167
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.983	-1.697	6.553
			Max. Mx	8	-31.073	-1358.598	-1.648
			Max. My	2	-31.019	5.413	1386.835
			Max. Vy	8	25.474	-1358.598	-1.648
			Max. Vx	14	25.899	-6.870	-1382.587
L17	73.5 - 73.25	Pole	Max. Torque	8			3.165
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.053	-1.698	6.558
			Max. Mx	8	-31.153	-1364.963	-1.665
			Max. My	2	-31.100	5.436	1393.297
			Max. Vy	8	25.472	-1364.963	-1.665
			Max. Vx	14	25.897	-6.893	-1389.057
L18	73.25 - 68.25	Pole	Max. Torque	8			3.164
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.463	-1.710	6.604
			Max. Mx	8	-32.375	-1493.213	-2.009
			Max. My	2	-32.325	5.886	1523.503
			Max. Vy	8	25.851	-1493.213	-2.009
			Max. Vx	14	26.275	-7.353	-1519.430
L19	68.25 - 62	Pole	Max. Torque	8			3.164
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.882	-1.713	6.617
			Max. Mx	8	-32.743	-1532.046	-2.112
			Max. My	2	-32.694	6.020	1562.920

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 26 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L20	62 - 61	Pole	Max. Vy	8	25.967	-1532.046	-2.112
			Max. Vx	14	26.391	-7.490	-1558.898
			Max. Torque	8			3.162
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-55.520	-1.726	6.667
			Max. Mx	8	-34.969	-1682.806	-2.507
			Max. My	2	-34.923	6.536	1715.921
			Max. Vy	8	26.487	-1682.806	-2.507
L21	61 - 56.25	Pole	Max. Vx	14	26.910	-8.017	-1712.092
			Max. Torque	8			3.160
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.813	-1.736	6.704
			Max. Mx	8	-36.162	-1809.215	-2.835
			Max. My	2	-36.122	6.961	1844.173
			Max. Vy	8	26.783	-1809.215	-2.835
			Max. Vx	14	27.204	-8.449	-1840.506
L22	56.25 - 56	Pole	Max. Torque	8			3.160
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.893	-1.737	6.709
			Max. Mx	8	-36.249	-1815.907	-2.852
			Max. My	2	-36.209	6.984	1850.962
			Max. Vy	8	26.782	-1815.907	-2.852
			Max. Vx	14	27.202	-8.472	-1847.303
			Max. Torque	8			3.158
L23	56 - 51	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.510	-1.745	6.741
			Max. Mx	8	-37.681	-1950.626	-3.198
			Max. My	2	-37.644	7.428	1987.608
			Max. Vy	8	27.130	-1950.626	-3.198
			Max. Vx	14	27.549	-8.924	-1984.121
			Max. Torque	8			3.158
			Max Tension	1	0.000	0.000	0.000
L24	51 - 46	Pole	Max. Compression	26	-60.151	-1.753	6.772
			Max. Mx	8	-39.150	-2086.986	-3.543
			Max. My	2	-39.117	7.871	2125.885
			Max. Vy	8	27.451	-2086.986	-3.543
			Max. Vx	14	27.868	-9.373	-2122.570
			Max. Torque	8			3.157
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-61.817	-1.755	6.771
L25	46 - 41	Pole	Max. Mx	8	-40.644	-2224.905	-3.889
			Max. My	2	-40.616	8.311	2265.707
			Max. Vy	8	27.755	-2224.905	-3.889
			Max. Vx	14	28.170	-9.818	-2262.567
			Max. Torque	8			3.156
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.339	-1.758	6.769
			Max. Mx	8	-41.091	-2266.574	-3.992
L26	41 - 39.5	Pole	Max. My	2	-41.063	8.443	2307.944
			Max. Vy	8	27.853	-2266.574	-3.992
			Max. Vx	14	28.267	-9.951	-2304.857
			Max. Torque	8			3.154
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.434	-1.758	6.771
			Max. Mx	8	-41.191	-2273.532	-4.010
			Max. My	2	-41.165	8.465	2314.997
L27	39.5 - 39.25	Pole	Max. Vy	8	27.845	-2273.532	-4.010
			Max. Vx	14	28.259	-9.973	-2311.918
			Max. Torque	8			3.154
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.626	-1.758	6.769
			Max. Mx	8	-41.191	-2273.532	-4.010
			Max. My	2	-41.165	8.465	2314.997
			Max. Vy	8	27.845	-2273.532	-4.010
L28	39.25 - 38.75	Pole	Max. Vx	14	28.259	-9.973	-2311.918
			Max. Torque	8			3.154
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.626	-1.758	6.769

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 27 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L29	38.75 - 38.5	Pole	Max. Mx	8	-41.355	-2287.459	-4.044
			Max. My	2	-41.329	8.508	2329.113
			Max. Vy	8	27.879	-2287.459	-4.044
			Max. Vx	14	28.293	-10.017	-2326.052
			Max. Torque	8			3.154
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.717	-1.758	6.771
			Max. Mx	8	-41.437	-2294.428	-4.061
			Max. My	2	-41.411	8.530	2336.177
			Max. Vy	8	27.891	-2294.428	-4.061
L30	38.5 - 32.25	Pole	Max. Vx	14	28.304	-10.039	-2333.125
			Max. Torque	8			3.154
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.070	-1.758	6.769
			Max. Mx	8	-41.743	-2322.341	-4.130
			Max. My	2	-41.717	8.618	2364.468
			Max. Vy	8	27.961	-2322.341	-4.130
			Max. Vx	14	28.374	-10.127	-2361.451
			Max. Torque	8			3.154
			Max Tension	1	0.000	0.000	0.000
L31	32.25 - 31.25	Pole	Max. Compression	26	-67.013	-1.758	6.769
			Max. Mx	8	-45.156	-2498.629	-4.560
			Max. My	2	-45.132	9.163	2543.115
			Max. Vy	8	28.463	-2498.629	-4.560
			Max. Vx	14	28.875	-10.679	-2540.318
			Max. Torque	8			3.153
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.949	-1.758	6.769
			Max. Mx	8	-46.916	-2641.512	-4.904
			Max. My	2	-46.897	9.598	2687.876
L32	31.25 - 26.25	Pole	Max. Vy	8	28.729	-2641.512	-4.904
			Max. Vx	14	29.139	-11.117	-2685.255
			Max. Torque	8			3.153
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-70.909	-1.758	6.769
			Max. Mx	8	-48.704	-2785.718	-5.248
			Max. My	2	-48.688	10.031	2833.945
			Max. Vy	8	28.993	-2785.718	-5.248
			Max. Vx	14	29.400	-11.551	-2831.502
			Max. Torque	8			3.152
L33	26.25 - 21.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-72.891	-1.758	6.768
			Max. Mx	8	-50.519	-2931.226	-5.591
			Max. My	2	-50.507	10.460	2981.302
			Max. Vy	8	29.251	-2931.226	-5.591
			Max. Vx	14	29.656	-11.982	-2979.036
			Max. Torque	8			3.152
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-74.894	-1.758	6.768
			Max. Mx	8	-52.363	-3078.007	-5.933
L34	21.25 - 16.25	Pole	Max. My	2	-52.354	10.886	3129.916
			Max. Vy	8	29.504	-3078.007	-5.933
			Max. Vx	14	29.905	-12.409	-3127.829
			Max. Torque	8			3.151
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.403	-1.750	6.773
			Max. Mx	8	-52.825	-3114.899	-6.018
			Max. My	2	-52.817	10.992	3167.264
			Max. Vy	8	29.572	-3114.899	-6.018
			Max. Vx	14	29.973	-12.515	-3165.222
L35	16.25 - 11.25	Pole	Max. Torque	8			3.151
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.403	-1.750	6.773
			Max. Mx	8	-52.825	-3114.899	-6.018
			Max. My	2	-52.817	10.992	3167.264
			Max. Vy	8	29.572	-3114.899	-6.018
			Max. Vx	14	29.973	-12.515	-3165.222
			Max. Torque	8			3.151
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.403	-1.750	6.773
L36	11.25 - 10	Pole	Max. Mx	8	-52.825	-3114.899	-6.018
			Max. My	2	-52.817	10.992	3167.264
			Max. Vy	8	29.572	-3114.899	-6.018
			Max. Vx	14	29.973	-12.515	-3165.222
			Max. Torque	8			3.151
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.403	-1.750	6.773
			Max. Mx	8	-52.825	-3114.899	-6.018
			Max. My	2	-52.817	10.992	3167.264
			Max. Vy	8	29.572	-3114.899	-6.018
Max. Vx	14	29.973	-12.515	-3165.222			
Max. Torque	8			3.151			

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 28 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L37	10 - 9.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-75.500	-1.749	6.774
			Max. Mx	8	-52.927	-3122.287	-6.036
			Max. My	2	-52.920	11.013	3174.742
			Max. Vy	8	29.563	-3122.287	-6.036
			Max. Vx	14	29.963	-12.536	-3172.709
			Max. Torque	8			3.151
L38	9.75 - 7.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.479	-1.733	6.782
			Max. Mx	8	-53.817	-3196.314	-6.206
			Max. My	2	-53.811	11.224	3249.677
			Max. Vy	8	29.697	-3196.314	-6.206
			Max. Vx	14	30.095	-12.747	-3247.734
			Max. Torque	8			3.151
L39	7.25 - 7	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.577	-1.732	6.784
			Max. Mx	8	-53.922	-3203.732	-6.223
			Max. My	2	-53.916	11.245	3257.185
			Max. Vy	8	29.684	-3203.732	-6.223
			Max. Vx	14	30.081	-12.768	-3255.251
			Max. Torque	8			3.151
L40	7 - 2	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-78.527	-1.723	6.788
			Max. Mx	8	-55.730	-3352.707	-6.563
			Max. My	2	-55.728	11.664	3407.959
			Max. Vy	8	29.936	-3352.707	-6.563
			Max. Vx	14	30.330	-13.187	-3406.205
			Max. Torque	8			3.151
L41	2 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-79.298	-1.723	6.788
			Max. Mx	8	-56.465	-3412.624	-6.698
			Max. My	2	-56.465	11.831	3468.590
			Max. Vy	8	30.029	-3412.624	-6.698
			Max. Vx	14	30.422	-13.352	-3466.909
			Max. Torque	8			3.151

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	79.298	0.015	6.981
	Max. H _x	20	56.478	30.005	0.099
	Max. H _z	3	42.359	0.083	30.361
	Max. M _x	2	3468.590	0.083	30.361
	Max. M _z	8	3412.624	-30.005	-0.067
	Max. Torsion	8	3.151	-30.005	-0.067
	Min. Vert	11	42.359	-26.001	-15.317
	Min. H _x	8	56.478	-30.005	-0.067
	Min. H _z	15	42.359	-0.083	-30.397
	Min. M _x	14	-3466.909	-0.083	-30.397
	Min. M _z	20	-3411.087	30.005	0.099
	Min. Torsion	20	-3.136	30.005	0.099

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 29 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overtuning Moment, M _x	Overtuning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	47.065	0.000	-0.000	-2.800	-0.610	-0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	56.478	-0.083	-30.361	-3468.590	11.831	0.645
0.9 Dead+1.0 Wind 0 deg - No Ice	42.359	-0.083	-30.361	-3401.856	11.771	0.628
1.2 Dead+1.0 Wind 30 deg - No Ice	56.478	14.911	-26.264	-2999.880	-1692.719	-0.936
0.9 Dead+1.0 Wind 30 deg - No Ice	42.359	14.911	-26.264	-2942.046	-1660.484	-0.909
1.2 Dead+1.0 Wind 60 deg - No Ice	56.478	25.928	-15.139	-1729.734	-2946.950	-2.353
0.9 Dead+1.0 Wind 60 deg - No Ice	42.359	25.928	-15.139	-1696.013	-2890.929	-2.289
1.2 Dead+1.0 Wind 90 deg - No Ice	56.478	30.005	0.067	6.698	-3412.624	-3.151
0.9 Dead+1.0 Wind 90 deg - No Ice	42.359	30.005	0.067	7.446	-3347.762	-3.067
1.2 Dead+1.0 Wind 120 deg - No Ice	56.478	26.001	15.317	1749.621	-2957.856	-2.874
0.9 Dead+1.0 Wind 120 deg - No Ice	42.359	26.001	15.317	1717.268	-2901.617	-2.793
1.2 Dead+1.0 Wind 150 deg - No Ice	56.478	15.063	26.384	3010.874	-1715.711	-2.015
0.9 Dead+1.0 Wind 150 deg - No Ice	42.359	15.063	26.384	2954.615	-1682.995	-1.959
1.2 Dead+1.0 Wind 180 deg - No Ice	56.478	0.083	30.397	3466.909	-13.352	-0.630
0.9 Dead+1.0 Wind 180 deg - No Ice	42.359	0.083	30.397	3402.018	-12.871	-0.613
1.2 Dead+1.0 Wind 210 deg - No Ice	56.478	-14.919	26.301	2998.383	1692.437	0.919
0.9 Dead+1.0 Wind 210 deg - No Ice	42.359	-14.919	26.301	2942.386	1660.608	0.893
1.2 Dead+1.0 Wind 240 deg - No Ice	56.478	-25.918	15.173	1727.865	2943.836	2.230
0.9 Dead+1.0 Wind 240 deg - No Ice	42.359	-25.918	15.173	1695.978	2888.283	2.166
1.2 Dead+1.0 Wind 270 deg - No Ice	56.478	-30.005	-0.099	-18.488	3411.087	3.136
0.9 Dead+1.0 Wind 270 deg - No Ice	42.359	-30.005	-0.099	-17.199	3346.652	3.052
1.2 Dead+1.0 Wind 300 deg - No Ice	56.478	-26.011	-15.282	-1751.477	2957.904	2.983
0.9 Dead+1.0 Wind 300 deg - No Ice	42.359	-26.011	-15.282	-1717.294	2902.048	2.902
1.2 Dead+1.0 Wind 330 deg - No Ice	56.478	-15.054	-26.346	-3012.358	1712.943	2.048
0.9 Dead+1.0 Wind 330 deg - No Ice	42.359	-15.054	-26.346	-2954.265	1680.668	1.990
1.2 Dead+1.0 Ice+1.0 Temp	79.298	0.000	-0.000	-6.788	-1.723	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	79.298	-0.015	-6.981	-840.801	0.603	0.177
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	79.298	3.441	-6.041	-728.270	-410.707	-0.238
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	79.298	5.979	-3.484	-422.778	-713.069	-0.608
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	79.298	6.916	0.011	-5.080	-825.037	-0.820

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	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

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
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	79.298	5.992	3.516	414.123	-715.094	-0.765
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	79.298	3.468	6.063	717.973	-415.071	-0.543
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	79.298	0.015	6.989	828.106	-4.120	-0.176
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	79.298	-3.443	6.049	715.612	407.463	0.238
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	79.298	-5.977	3.491	410.032	709.216	0.588
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	79.298	-6.916	-0.018	-9.803	821.518	0.819
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	79.298	-5.994	-3.509	-426.868	711.911	0.784
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	79.298	-3.467	-6.056	-730.630	411.280	0.544
Dead+Wind 0 deg - Service	47.065	-0.020	-7.272	-823.993	2.348	0.158
Dead+Wind 30 deg - Service	47.065	3.571	-6.290	-712.902	-401.560	-0.218
Dead+Wind 60 deg - Service	47.065	6.210	-3.626	-411.922	-698.732	-0.559
Dead+Wind 90 deg - Service	47.065	7.186	0.016	-0.486	-809.071	-0.755
Dead+Wind 120 deg - Service	47.065	6.227	3.668	412.505	-701.343	-0.694
Dead+Wind 150 deg - Service	47.065	3.608	6.319	711.402	-407.022	-0.491
Dead+Wind 180 deg - Service	47.065	0.020	7.280	819.475	-3.610	-0.157
Dead+Wind 210 deg - Service	47.065	-3.573	6.299	708.424	400.601	0.219
Dead+Wind 240 deg - Service	47.065	-6.207	3.634	407.345	697.103	0.536
Dead+Wind 270 deg - Service	47.065	-7.186	-0.024	-6.445	807.809	0.754
Dead+Wind 300 deg - Service	47.065	-6.230	-3.660	-417.081	700.448	0.716
Dead+Wind 330 deg - Service	47.065	-3.606	-6.310	-715.879	405.457	0.491

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-47.065	0.000	-0.000	47.065	0.000	0.000%
2	-0.083	-56.478	-30.361	0.083	56.478	30.361	0.000%
3	-0.083	-42.359	-30.361	0.083	42.359	30.361	0.000%
4	14.911	-56.478	-26.264	-14.911	56.478	26.264	0.000%
5	14.911	-42.359	-26.264	-14.911	42.359	26.264	0.000%
6	25.928	-56.478	-15.139	-25.928	56.478	15.139	0.000%
7	25.928	-42.359	-15.139	-25.928	42.359	15.139	0.000%
8	30.005	-56.478	0.067	-30.005	56.478	-0.067	0.000%
9	30.005	-42.359	0.067	-30.005	42.359	-0.067	0.000%
10	26.001	-56.478	15.317	-26.001	56.478	-15.317	0.000%
11	26.001	-42.359	15.317	-26.001	42.359	-15.317	0.000%
12	15.063	-56.478	26.384	-15.063	56.478	-26.384	0.000%
13	15.063	-42.359	26.384	-15.063	42.359	-26.384	0.000%
14	0.083	-56.478	30.397	-0.083	56.478	-30.397	0.000%
15	0.083	-42.359	30.397	-0.083	42.359	-30.397	0.000%
16	-14.919	-56.478	26.301	14.919	56.478	-26.301	0.000%
17	-14.919	-42.359	26.301	14.919	42.359	-26.301	0.000%
18	-25.918	-56.478	15.173	25.918	56.478	-15.173	0.000%
19	-25.918	-42.359	15.173	25.918	42.359	-15.173	0.000%
20	-30.005	-56.478	-0.099	30.005	56.478	0.099	0.000%
21	-30.005	-42.359	-0.099	30.005	42.359	0.099	0.000%
22	-26.011	-56.478	-15.282	26.011	56.478	15.282	0.000%
23	-26.011	-42.359	-15.282	26.011	42.359	15.282	0.000%
24	-15.054	-56.478	-26.346	15.054	56.478	26.346	0.000%

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 31 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
25	-15.054	-42.359	-26.346	15.054	42.359	26.346	0.000%
26	0.000	-79.298	0.000	-0.000	79.298	0.000	0.000%
27	-0.015	-79.298	-6.981	0.015	79.298	6.981	0.000%
28	3.441	-79.298	-6.041	-3.441	79.298	6.041	0.000%
29	5.979	-79.298	-3.484	-5.979	79.298	3.484	0.000%
30	6.916	-79.298	0.011	-6.916	79.298	-0.011	0.000%
31	5.992	-79.298	3.516	-5.992	79.298	-3.516	0.000%
32	3.468	-79.298	6.063	-3.468	79.298	-6.063	0.000%
33	0.015	-79.298	6.989	-0.015	79.298	-6.989	0.000%
34	-3.443	-79.298	6.048	3.443	79.298	-6.049	0.000%
35	-5.977	-79.298	3.491	5.977	79.298	-3.491	0.000%
36	-6.916	-79.298	-0.018	6.916	79.298	0.018	0.000%
37	-5.994	-79.298	-3.509	5.994	79.298	3.509	0.000%
38	-3.467	-79.298	-6.056	3.467	79.298	6.056	0.000%
39	-0.020	-47.065	-7.272	0.020	47.065	7.272	0.000%
40	3.571	-47.065	-6.290	-3.571	47.065	6.290	0.000%
41	6.210	-47.065	-3.626	-6.210	47.065	3.626	0.000%
42	7.186	-47.065	0.016	-7.186	47.065	-0.016	0.000%
43	6.227	-47.065	3.668	-6.227	47.065	-3.668	0.000%
44	3.608	-47.065	6.319	-3.608	47.065	-6.319	0.000%
45	0.020	-47.065	7.280	-0.020	47.065	-7.280	0.000%
46	-3.573	-47.065	6.299	3.573	47.065	-6.299	0.000%
47	-6.207	-47.065	3.634	6.207	47.065	-3.634	0.000%
48	-7.186	-47.065	-0.024	7.186	47.065	0.024	0.000%
49	-6.230	-47.065	-3.660	6.230	47.065	3.660	0.000%
50	-3.606	-47.065	-6.310	3.606	47.065	6.310	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.0000001	0.00001727
2	Yes	6	0.0000001	0.00009184
3	Yes	5	0.0000001	0.00038861
4	Yes	7	0.0000001	0.00040345
5	Yes	7	0.0000001	0.00009780
6	Yes	7	0.0000001	0.00042196
7	Yes	7	0.0000001	0.00010300
8	Yes	6	0.0000001	0.00034422
9	Yes	6	0.0000001	0.00011938
10	Yes	7	0.0000001	0.00039802
11	Yes	7	0.0000001	0.00009613
12	Yes	7	0.0000001	0.00042592
13	Yes	7	0.0000001	0.00010357
14	Yes	6	0.0000001	0.00014883
15	Yes	5	0.0000001	0.00072234
16	Yes	7	0.0000001	0.00041212
17	Yes	7	0.0000001	0.00010043
18	Yes	7	0.0000001	0.00039410
19	Yes	7	0.0000001	0.00009567
20	Yes	6	0.0000001	0.00042989
21	Yes	6	0.0000001	0.00014933
22	Yes	7	0.0000001	0.00043146
23	Yes	7	0.0000001	0.00010511
24	Yes	7	0.0000001	0.00040309
25	Yes	7	0.0000001	0.00009723

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 32 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

26	Yes	5	0.00000001	0.00020263
27	Yes	7	0.00000001	0.00029873
28	Yes	7	0.00000001	0.00034571
29	Yes	7	0.00000001	0.00034598
30	Yes	7	0.00000001	0.00029157
31	Yes	7	0.00000001	0.00033589
32	Yes	7	0.00000001	0.00033986
33	Yes	7	0.00000001	0.00028879
34	Yes	7	0.00000001	0.00033353
35	Yes	7	0.00000001	0.00033044
36	Yes	7	0.00000001	0.00028897
37	Yes	7	0.00000001	0.00034639
38	Yes	7	0.00000001	0.00034524
39	Yes	5	0.00000001	0.00019017
40	Yes	5	0.00000001	0.00081580
41	Yes	5	0.00000001	0.00091197
42	Yes	5	0.00000001	0.00028039
43	Yes	5	0.00000001	0.00077735
44	Yes	5	0.00000001	0.00090843
45	Yes	5	0.00000001	0.00019069
46	Yes	5	0.00000001	0.00084465
47	Yes	5	0.00000001	0.00076352
48	Yes	5	0.00000001	0.00028896
49	Yes	5	0.00000001	0.00094967
50	Yes	5	0.00000001	0.00080362

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	29.312	39	1.716	0.007
L2	145 - 140	27.517	39	1.712	0.007
L3	140 - 135	25.729	39	1.702	0.007
L4	135 - 130	23.956	39	1.683	0.007
L5	130 - 125	22.208	39	1.653	0.006
L6	125 - 120	20.498	39	1.613	0.006
L7	120 - 115	18.833	39	1.563	0.005
L8	115 - 110	17.227	39	1.503	0.004
L9	110 - 102.5	15.688	39	1.435	0.004
L10	106.25 - 101.25	14.583	39	1.379	0.004
L11	101.25 - 96.25	13.159	39	1.335	0.003
L12	96.25 - 91.25	11.799	39	1.262	0.003
L13	91.25 - 86.25	10.517	39	1.185	0.003
L14	86.25 - 81.25	9.318	39	1.104	0.002
L15	81.25 - 76.25	8.206	39	1.020	0.002
L16	76.25 - 73.5	7.182	39	0.934	0.002
L17	73.5 - 73.25	6.658	39	0.886	0.002
L18	73.25 - 68.25	6.612	39	0.882	0.002
L19	68.25 - 62	5.725	39	0.812	0.001
L20	66.75 - 61	5.473	39	0.791	0.001
L21	61 - 56.25	4.547	39	0.739	0.001
L22	56.25 - 56	3.849	39	0.663	0.001
L23	56 - 51	3.815	39	0.660	0.001
L24	51 - 46	3.158	39	0.594	0.001
L25	46 - 41	2.572	39	0.526	0.001
L26	41 - 39.5	2.056	39	0.459	0.001
L27	39.5 - 39.25	1.915	39	0.439	0.001
L28	39.25 - 38.75	1.892	39	0.436	0.001
L29	38.75 - 38.5	1.847	39	0.430	0.001

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 33 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L30	38.5 - 32.25	1.824	39	0.427	0.001
L31	37.5 - 31.25	1.736	39	0.414	0.001
L32	31.25 - 26.25	1.220	39	0.370	0.001
L33	26.25 - 21.25	0.863	39	0.311	0.000
L34	21.25 - 16.25	0.567	39	0.253	0.000
L35	16.25 - 11.25	0.333	39	0.195	0.000
L36	11.25 - 10	0.159	39	0.137	0.000
L37	10 - 9.75	0.126	39	0.122	0.000
L38	9.75 - 7.25	0.119	39	0.119	0.000
L39	7.25 - 7	0.065	39	0.086	0.000
L40	7 - 2	0.061	39	0.083	0.000
L41	2 - 0	0.005	39	0.024	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
153.000	Lightning Rod 5/8" x 6'	39	29.312	1.716	0.007	40919
150.000	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	39	29.312	1.716	0.007	40919
147.000	4' x 2" Pipe Mount	39	28.234	1.714	0.007	40919
138.000	SC2-W100AC	39	25.018	1.695	0.007	16243
126.000	TMA-DB-T1-6Z-8AB-0Z	39	20.836	1.622	0.006	6735
124.000	BXA-70080/4CF w/ Mount Pipe	39	20.161	1.604	0.005	6134
102.000	OPA65R-BU6D w/ Mount Pipe	39	13.369	1.342	0.003	4858
82.000	KS24019-L112A	39	8.367	1.033	0.002	3381

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	123.228	2	7.208	0.030
L2	145 - 140	115.705	2	7.193	0.030
L3	140 - 135	108.213	2	7.149	0.030
L4	135 - 130	100.781	2	7.075	0.028
L5	130 - 125	93.451	2	6.952	0.025
L6	125 - 120	86.270	2	6.789	0.023
L7	120 - 115	79.281	2	6.581	0.020
L8	115 - 110	72.531	2	6.331	0.018
L9	110 - 102.5	66.061	2	6.045	0.016
L10	106.25 - 101.25	61.413	2	5.811	0.014
L11	101.25 - 96.25	55.420	2	5.625	0.013
L12	96.25 - 91.25	49.696	2	5.320	0.012
L13	91.25 - 86.25	44.301	2	4.995	0.011
L14	86.25 - 81.25	39.254	2	4.654	0.010
L15	81.25 - 76.25	34.569	2	4.300	0.008
L16	76.25 - 73.5	30.259	2	3.937	0.007
L17	73.5 - 73.25	28.052	2	3.734	0.007
L18	73.25 - 68.25	27.857	2	3.719	0.007
L19	68.25 - 62	24.119	2	3.424	0.006

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 34 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L20	66.75 - 61	23.058	2	3.335	0.006
L21	61 - 56.25	19.156	2	3.117	0.005
L22	56.25 - 56	16.216	2	2.796	0.004
L23	56 - 51	16.070	2	2.782	0.004
L24	51 - 46	13.305	2	2.502	0.004
L25	46 - 41	10.834	2	2.218	0.003
L26	41 - 39.5	8.661	2	1.935	0.003
L27	39.5 - 39.25	8.066	2	1.851	0.003
L28	39.25 - 38.75	7.970	2	1.838	0.003
L29	38.75 - 38.5	7.779	2	1.812	0.003
L30	38.5 - 32.25	7.684	2	1.798	0.002
L31	37.5 - 31.25	7.313	2	1.745	0.002
L32	31.25 - 26.25	5.137	2	1.559	0.002
L33	26.25 - 21.25	3.634	2	1.312	0.002
L34	21.25 - 16.25	2.389	2	1.066	0.001
L35	16.25 - 11.25	1.402	2	0.821	0.001
L36	11.25 - 10	0.671	2	0.575	0.001
L37	10 - 9.75	0.528	2	0.515	0.001
L38	9.75 - 7.25	0.502	2	0.501	0.001
L39	7.25 - 7	0.276	2	0.364	0.000
L40	7 - 2	0.257	2	0.351	0.000
L41	2 - 0	0.021	2	0.100	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
153.000	Lightning Rod 5/8" x 6'	2	123.228	7.208	0.031	9925
150.000	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	2	123.228	7.208	0.031	9925
147.000	4' x 2" Pipe Mount	2	118.712	7.201	0.031	9925
138.000	SC2-W100AC	2	105.231	7.124	0.030	4089
126.000	TMA-DB-T1-6Z-8AB-0Z	2	87.692	6.825	0.024	1675
124.000	BXA-70080/4CF w/ Mount Pipe	2	84.855	6.751	0.023	1521
102.000	OPA65R-BU6D w/ Mount Pipe	2	56.304	5.656	0.014	1178
82.000	KS24019-L112A	2	35.248	4.353	0.009	811

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L1	150 - 149	TP22.875x22x0.25	5.000	0.000	0.0	17.650	-4.946	953.081	0.005
	149 - 148					17.791	-5.019	960.690	0.005
	148 - 147					17.931	-5.084	968.298	0.005
	147 - 146					18.072	-5.267	975.907	0.005
	146 - 145					18.213	-5.341	983.516	0.005

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L2	145 - 144	TP23.75x22.875x0.25	5.000	0.000	0.0	18.354	-5.416	991.124	0.005
	144 - 143					18.495	-5.491	998.733	0.005
	143 - 142					18.636	-5.567	1006.340	0.006
	142 - 141					18.777	-5.643	1013.950	0.006
	141 - 140					18.918	-5.720	1021.560	0.006
L3	140 - 139	TP24.625x23.75x0.25	5.000	0.000	0.0	19.059	-5.806	1029.170	0.006
	139 - 138					19.200	-5.892	1036.780	0.006
	138 - 137					19.340	-11.915	1044.380	0.011
	137 - 136					19.481	-12.005	1051.990	0.011
L4	136 - 135	TP25.501x24.625x0.25	5.000	0.000	0.0	19.622	-12.095	1059.600	0.011
	135 - 134					19.763	-12.192	1067.210	0.011
	134 - 133					19.904	-12.290	1074.820	0.011
	133 - 132					20.045	-12.389	1082.430	0.011
	132 - 131					20.186	-12.489	1090.040	0.011
L5	131 - 130	TP26.376x25.501x0.25	5.000	0.000	0.0	20.327	-12.590	1097.650	0.011
	130 - 129					20.468	-12.692	1105.250	0.011
	129 - 128					20.609	-12.795	1112.860	0.011
	128 - 127					20.750	-12.899	1120.470	0.012
	127 - 126					20.890	-13.004	1128.080	0.012
L6	126 - 125	TP27.251x26.376x0.25	5.000	0.000	0.0	21.031	-13.141	1135.690	0.012
	125 - 124					21.172	-13.255	1143.300	0.012
	124 - 123					21.313	-17.903	1150.910	0.016
	123 - 122					21.454	-18.023	1158.510	0.016
	122 - 121					21.595	-18.144	1166.120	0.016
L7	121 - 120	TP28.126x27.251x0.25	5.000	0.000	0.0	21.736	-18.266	1173.730	0.016
	120 - 119					21.877	-18.391	1181.340	0.016
	119 - 118					22.018	-18.517	1188.950	0.016
	118 - 117					22.159	-18.644	1196.560	0.016
	117 - 116					22.299	-18.772	1204.170	0.016
L8	116 - 115	TP29.001x28.126x0.25	5.000	0.000	0.0	22.440	-18.901	1211.770	0.016
	115 - 114					22.581	-19.032	1219.380	0.016
	114 - 113					22.722	-19.164	1226.990	0.016
	113 - 112					22.863	-19.297	1234.600	0.016
	112 - 111					23.004	-19.431	1242.210	0.016
L9	111 - 110	TP30.314x29.001x0.25	7.500	0.000	0.0	23.145	-19.567	1249.820	0.016
	110 - 108.75					23.321	-19.735	1259.330	0.016
	108.75 - 107.5					23.497	-19.907	1268.840	0.016
	107.5 - 106.25					23.673	-20.081	1278.350	0.016
	106.25 - 102.5					24.201	-9.459	1306.880	0.007
L10	106.25 - 102.5	TP30.033x29.158x0.313	5.000	0.000	0.0	29.686	-11.550	1736.630	0.007
	102.5 - 101.25					29.906	-25.403	1749.500	0.015
L11	101.25 - 100.25	TP30.908x30.033x0.313	5.000	0.000	0.0	30.082	-25.589	1759.810	0.015
	100.25 - 99.25					30.258	-25.774	1770.110	0.015
	99.25 - 98.25					30.434	-25.960	1780.420	0.015
	98.25 - 97.25					30.611	-26.148	1790.720	0.015
	97.25 - 96.25					30.787	-26.336	1801.020	0.015
L12	96.25 - 95.25	TP31.783x30.908x0.313	5.000	0.000	0.0	30.963	-26.526	1811.330	0.015
	95.25 - 94.25					31.139	-26.717	1821.630	0.015
	94.25 - 93.25					31.315	-26.910	1831.930	0.015
	93.25 - 92.25					31.491	-27.103	1842.240	0.015
	92.25 - 91.25					31.667	-27.298	1852.540	0.015
L13	91.25 - 90.25	TP32.658x31.783x0.313	5.000	0.000	0.0	31.844	-27.494	1862.840	0.015
	90.25 - 89.25					32.020	-27.691	1873.150	0.015
	89.25 - 88.25					32.196	-27.889	1883.450	0.015
	88.25 - 87.25					32.372	-28.088	1893.760	0.015
	87.25 - 86.25					32.548	-28.289	1904.060	0.015
L14	86.25 - 85.25	TP33.534x32.658x0.313	5.000	0.000	0.0	32.724	-28.490	1914.360	0.015
	85.25 - 84.25					32.900	-28.693	1924.670	0.015
	84.25 - 83.25					33.076	-28.897	1934.970	0.015

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 36 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
	83.25 - 82.25					33.252	-29.102	1945.270	0.015
	82.25 - 81.25					33.429	-29.389	1955.580	0.015
L15	81.25 - 80.25	TP34.409x33.534x0.313	5.000	0.000	0.0	33.605	-29.597	1965.880	0.015
	80.25 - 79.25					33.781	-29.805	1976.180	0.015
	79.25 - 78.25					33.957	-30.015	1986.490	0.015
	78.25 - 77.25					34.133	-30.226	1996.790	0.015
	77.25 - 76.25					34.309	-30.438	2007.100	0.015
L16	76.25 - 74.875	TP34.89x34.409x0.313	2.750	0.000	0.0	34.551	-30.724	2021.260	0.015
	74.875 - 73.5					34.794	-31.019	2035.430	0.015
L17	73.5 - 73.25	TP34.934x34.89x0.4	0.250	0.000	0.0	44.480	-31.100	2602.060	0.012
	(17)								
L18	73.25 - 72.25	TP35.809x34.934x0.4	5.000	0.000	0.0	44.705	-31.335	2615.240	0.012
	72.25 - 71.25					44.931	-31.581	2628.430	0.012
	71.25 - 70.25					45.156	-31.828	2641.620	0.012
	70.25 - 69.25					45.381	-32.076	2654.810	0.012
	69.25 - 68.25					45.607	-32.325	2668.000	0.012
L19	68.25 - 66.75	TP36.903x35.809x0.4	6.250	0.000	0.0	45.945	-32.694	2687.780	0.012
	66.75 - 62					47.016	-18.073	2750.430	0.007
L20	66.75 - 62	TP36.453x35.447x0.375	5.750	0.000	0.0	43.353	-16.581	2536.140	0.007
	62 - 61					43.564	-34.923	2548.500	0.014
L21	61 - 59.8125	TP37.284x36.453x0.375	4.750	0.000	0.0	43.815	-35.218	2563.190	0.014
	59.8125 - 58.625					44.066	-35.518	2577.870	0.014
	58.625 - 57.4375					44.317	-35.819	2592.550	0.014
	57.4375 - 56.25					44.568	-36.121	2607.230	0.014
L22	56.25 - 56 (22)	TP37.328x37.284x0.456	0.250	0.000	0.0	54.169	-36.209	3168.910	0.011
L23	56 - 55	TP38.203x37.328x0.456	5.000	0.000	0.0	54.426	-36.486	3183.950	0.011
	55 - 54					54.684	-36.774	3198.990	0.011
	54 - 53					54.941	-37.063	3214.040	0.012
	53 - 52					55.198	-37.353	3229.080	0.012
	52 - 51					55.455	-37.644	3244.120	0.012
L24	51 - 50	TP39.078x38.203x0.45	5.000	0.000	0.0	54.958	-37.937	3215.050	0.012
	50 - 49					55.212	-38.230	3229.880	0.012
	49 - 48					55.465	-38.525	3244.720	0.012
	48 - 47					55.719	-38.820	3259.560	0.012
	47 - 46					55.972	-39.117	3274.390	0.012
L25	46 - 45	TP39.954x39.078x0.45	5.000	0.000	0.0	56.226	-39.415	3289.230	0.012
	45 - 44					56.480	-39.713	3304.070	0.012
	44 - 43					56.733	-40.013	3318.900	0.012
	43 - 42					56.987	-40.314	3333.740	0.012
	42 - 41					57.241	-40.616	3348.570	0.012
L26	41 - 39.5 (26)	TP40.216x39.954x0.45	1.500	0.000	0.0	57.621	-41.063	3370.830	0.012
L27	39.5 - 39.25	TP40.26x40.216x0.488	0.250	0.000	0.0	62.433	-41.165	3652.310	0.011
	(27)								
L28	39.25 - 38.75	TP40.347x40.26x0.488	0.500	0.000	0.0	62.570	-41.329	3660.340	0.011
	(28)								
L29	38.75 - 38.5	TP40.391x40.347x0.475	0.250	0.000	0.0	61.052	-41.411	3571.520	0.012
	(29)								
L30	38.5 - 37.5	TP41.485x40.391x0.475	6.250	0.000	0.0	61.319	-41.718	3587.180	0.012
	37.5 - 32.25					62.725	-21.285	3669.400	0.006
L31	37.5 - 32.25	TP40.91x39.816x0.538	6.250	0.000	0.0	69.572	-23.476	4069.960	0.006
	32.25 - 31.25					69.875	-45.133	4087.680	0.011
L32	31.25 - 30.25	TP41.785x40.91x0.538	5.000	0.000	0.0	70.178	-45.483	4105.400	0.011
	30.25 - 29.25					70.481	-45.834	4123.120	0.011
	29.25 - 28.25					70.784	-46.187	4140.850	0.011
	28.25 - 27.25					71.087	-46.541	4158.570	0.011
	27.25 - 26.25					71.390	-46.897	4176.290	0.011
L33	26.25 - 25.25	TP42.66x41.785x0.538	5.000	0.000	0.0	71.692	-47.252	4194.010	0.011

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 37 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
	25.25 - 24.25					71.995	-47.609	4211.740	0.011
	24.25 - 23.25					72.298	-47.967	4229.460	0.011
	23.25 - 22.25					72.601	-48.327	4247.180	0.011
	22.25 - 21.25					72.904	-48.688	4264.900	0.011
L34	21.25 - 20.25	TP43.536x42.66x0.531	5.000	0.000	0.0	72.367	-49.049	4233.450	0.012
	20.25 - 19.25					72.666	-49.411	4250.970	0.012
	19.25 - 18.25					72.966	-49.775	4268.490	0.012
	18.25 - 17.25					73.265	-50.140	4286.000	0.012
	17.25 - 16.25					73.564	-50.507	4303.520	0.012
L35	16.25 - 15.25	TP44.411x43.536x0.525	5.000	0.000	0.0	73.005	-50.874	4270.820	0.012
	15.25 - 14.25					73.301	-51.242	4288.130	0.012
	14.25 - 13.25					73.597	-51.611	4305.440	0.012
	13.25 - 12.25					73.893	-51.982	4322.750	0.012
	12.25 - 11.25					74.189	-52.354	4340.060	0.012
L36	11.25 - 10 (36)	TP44.63x44.411x0.525	1.250	0.000	0.0	74.559	-52.817	4361.690	0.012
L37	10 - 9.75 (37)	TP44.673x44.63x0.463	0.250	0.000	0.0	65.841	-52.920	3851.700	0.014
L38	9.75 - 8.5	TP45.111x44.673x0.463	2.500	0.000	0.0	66.167	-53.358	3870.760	0.014
	8.5 - 7.25					66.493	-53.811	3889.830	0.014
L39	7.25 - 7 (39)	TP45.155x45.111x0.506	0.250	0.000	0.0	72.783	-53.916	4257.780	0.013
L40	7 - 6	TP46.03x45.155x0.5	5.000	0.000	0.0	72.176	-54.268	4222.290	0.013
	6 - 5					72.458	-54.632	4238.780	0.013
	5 - 4					72.740	-54.996	4255.260	0.013
	4 - 3					73.021	-55.362	4271.750	0.013
	3 - 2					73.303	-55.728	4288.240	0.013
L41	2 - 1	TP46.38x46.03x0.5	2.000	0.000	0.0	73.585	-56.096	4304.720	0.013
	1 - 0					73.867	-56.465	4321.210	0.013

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio M _{ux} / φM _{ux}	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio M _{uy} / φM _{uy}
L1	150 - 149	TP22.875x22x0.25	5.303	530.048	0.010	0.000	530.048	0.000
	149 - 148		10.015	537.288	0.019	0.000	537.288	0.000
	148 - 147		14.821	544.556	0.027	0.000	544.556	0.000
	147 - 146		19.950	551.849	0.036	0.000	551.849	0.000
	146 - 145		25.160	559.168	0.045	0.000	559.168	0.000
L2	145 - 144	TP23.75x22.875x0.25	30.453	566.513	0.054	0.000	566.513	0.000
	144 - 143		35.828	573.882	0.062	0.000	573.882	0.000
	143 - 142		41.287	581.275	0.071	0.000	581.275	0.000
	142 - 141		46.829	588.692	0.080	0.000	588.692	0.000
	141 - 140		52.456	596.132	0.088	0.000	596.132	0.000
L3	140 - 139	TP24.625x23.75x0.25	58.167	603.594	0.096	0.000	603.594	0.000
	139 - 138		63.964	611.079	0.105	0.000	611.079	0.000
	138 - 137		78.752	618.585	0.127	0.000	618.585	0.000
	137 - 136		91.206	626.112	0.146	0.000	626.112	0.000
	136 - 135		103.743	633.661	0.164	0.000	633.661	0.000
L4	135 - 134	TP25.501x24.625x0.25	116.367	641.229	0.181	0.000	641.229	0.000
	134 - 133		129.075	648.818	0.199	0.000	648.818	0.000
	133 - 132		141.868	656.425	0.216	0.000	656.425	0.000
	132 - 131		154.746	664.051	0.233	0.000	664.051	0.000
	131 - 130		167.710	671.695	0.250	0.000	671.695	0.000
L5	130 - 129	TP26.376x25.501x0.25	180.758	679.357	0.266	0.000	679.357	0.000
	129 - 128		193.892	687.036	0.282	0.000	687.036	0.000
	128 - 127		207.110	694.732	0.298	0.000	694.732	0.000
	127 - 126		220.413	702.443	0.314	0.000	702.443	0.000

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 38 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

Section No.	Elevation ft	Size	M_{ux}	ϕM_{ux}	Ratio	M_{uy}	ϕM_{uy}	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{ux}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{uy}}$
L6	126 - 125	TP27.251x26.376x0.25	234.646	710.171	0.330	0.000	710.171	0.000
	125 - 124		248.307	717.913	0.346	0.000	717.913	0.000
	124 - 123		272.900	725.672	0.376	0.000	725.672	0.000
	123 - 122		291.196	733.443	0.397	0.000	733.443	0.000
	122 - 121		309.573	741.228	0.418	0.000	741.228	0.000
L7	121 - 120	TP28.126x27.251x0.25	328.033	749.028	0.438	0.000	749.028	0.000
	120 - 119		346.573	756.838	0.458	0.000	756.838	0.000
	119 - 118		365.194	764.663	0.478	0.000	764.663	0.000
	118 - 117		383.895	772.497	0.497	0.000	772.497	0.000
	117 - 116		402.677	780.344	0.516	0.000	780.344	0.000
L8	116 - 115	TP29.001x28.126x0.25	421.538	788.202	0.535	0.000	788.202	0.000
	115 - 114		440.480	796.069	0.553	0.000	796.069	0.000
	114 - 113		459.500	803.947	0.572	0.000	803.947	0.000
	113 - 112		478.599	811.833	0.590	0.000	811.833	0.000
	112 - 111		497.777	819.729	0.607	0.000	819.729	0.000
L9	111 - 110	TP30.314x29.001x0.25	517.033	827.633	0.625	0.000	827.633	0.000
	110 - 108.75		541.213	837.525	0.646	0.000	837.525	0.000
	108.75 - 107.5		565.514	847.425	0.667	0.000	847.425	0.000
	107.5 - 106.25		589.935	857.333	0.688	0.000	857.333	0.000
	106.25 - 102.5		304.627	887.125	0.343	0.000	887.125	0.000
L10	106.25 - 102.5	TP30.033x29.158x0.313	359.464	1253.842	0.287	0.000	1253.842	0.000
	102.5 - 101.25		696.589	1269.275	0.549	0.000	1269.275	0.000
L11	101.25 - 100.25	TP30.908x30.033x0.313	720.472	1281.658	0.562	0.000	1281.658	0.000
	100.25 - 99.25		744.431	1294.067	0.575	0.000	1294.067	0.000
	99.25 - 98.25		768.465	1306.492	0.588	0.000	1306.492	0.000
	98.25 - 97.25		792.575	1318.950	0.601	0.000	1318.950	0.000
	97.25 - 96.25		816.760	1331.425	0.613	0.000	1331.425	0.000
L12	96.25 - 95.25	TP31.783x30.908x0.313	841.017	1343.925	0.626	0.000	1343.925	0.000
	95.25 - 94.25		865.350	1356.450	0.638	0.000	1356.450	0.000
	94.25 - 93.25		889.758	1369.000	0.650	0.000	1369.000	0.000
	93.25 - 92.25		914.242	1381.567	0.662	0.000	1381.567	0.000
	92.25 - 91.25		938.792	1394.158	0.673	0.000	1394.158	0.000
L13	91.25 - 90.25	TP32.658x31.783x0.313	963.417	1406.767	0.685	0.000	1406.767	0.000
	90.25 - 89.25		988.117	1419.392	0.696	0.000	1419.392	0.000
	89.25 - 88.25		1012.883	1432.042	0.707	0.000	1432.042	0.000
	88.25 - 87.25		1037.725	1444.708	0.718	0.000	1444.708	0.000
	87.25 - 86.25		1062.633	1457.392	0.729	0.000	1457.392	0.000
L14	86.25 - 85.25	TP33.534x32.658x0.313	1087.617	1470.092	0.740	0.000	1470.092	0.000
	85.25 - 84.25		1112.667	1482.817	0.750	0.000	1482.817	0.000
	84.25 - 83.25		1137.783	1495.550	0.761	0.000	1495.550	0.000
	83.25 - 82.25		1162.967	1508.300	0.771	0.000	1508.300	0.000
	82.25 - 81.25		1188.558	1521.067	0.781	0.000	1521.067	0.000
L15	81.25 - 80.25	TP34.409x33.534x0.313	1213.917	1533.850	0.791	0.000	1533.850	0.000
	80.25 - 79.25		1239.350	1546.642	0.801	0.000	1546.642	0.000
	79.25 - 78.25		1264.842	1559.458	0.811	0.000	1559.458	0.000
	78.25 - 77.25		1290.400	1572.275	0.821	0.000	1572.275	0.000
	77.25 - 76.25		1316.033	1585.117	0.830	0.000	1585.117	0.000
L16	76.25 - 74.875	TP34.89x34.409x0.313	1351.375	1602.783	0.843	0.000	1602.783	0.000
	74.875 - 73.5		1386.842	1620.467	0.856	0.000	1620.467	0.000
L17	73.5 - 73.25	TP34.934x34.89x0.4 (17)	1393.308	2263.183	0.616	0.000	2263.183	0.000
L18	73.25 - 72.25	TP35.809x34.934x0.4	1419.200	2282.692	0.622	0.000	2282.692	0.000
	72.25 - 71.25		1445.167	2302.242	0.628	0.000	2302.242	0.000
	71.25 - 70.25		1471.208	2321.833	0.634	0.000	2321.833	0.000
	70.25 - 69.25		1497.325	2341.467	0.639	0.000	2341.467	0.000
	69.25 - 68.25		1523.517	2361.150	0.645	0.000	2361.150	0.000
L19	68.25 - 66.75	TP36.903x35.809x0.4	1562.933	2390.742	0.654	0.000	2390.742	0.000
	66.75 - 62		893.075	2485.058	0.359	0.000	2485.058	0.000
L20	66.75 - 62	TP36.453x35.447x0.375	796.037	2217.617	0.359	0.000	2217.617	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L21	62 - 61	TP37.284x36.453x0.375	1715.933	2235.483	0.768	0.000	2235.483	0.000
	61 - 59.8125		1747.867	2256.733	0.775	0.000	2256.733	0.000
	59.8125 - 58.625		1779.892	2278.025	0.781	0.000	2278.025	0.000
	58.625 - 57.4375		1811.992	2299.358	0.788	0.000	2299.358	0.000
	57.4375 - 56.25		1844.183	2320.733	0.795	0.000	2320.733	0.000
L22	56.25 - 56 (22)	TP37.328x37.284x0.456	1850.975	2986.133	0.620	0.000	2986.133	0.000
L23	56 - 55	TP38.203x37.328x0.456	1878.167	3014.725	0.623	0.000	3014.725	0.000
	55 - 54		1905.433	3043.450	0.626	0.000	3043.450	0.000
	54 - 53		1932.758	3072.317	0.629	0.000	3072.317	0.000
	53 - 52		1960.158	3098.050	0.633	0.000	3098.050	0.000
	52 - 51		1987.625	3122.867	0.636	0.000	3122.867	0.000
L24	51 - 50	TP39.078x38.203x0.45	2015.150	3093.158	0.651	0.000	3093.158	0.000
	50 - 49		2042.742	3117.567	0.655	0.000	3117.567	0.000
	49 - 48		2070.400	3142.033	0.659	0.000	3142.033	0.000
	48 - 47		2098.117	3166.550	0.663	0.000	3166.550	0.000
	47 - 46		2125.900	3191.125	0.666	0.000	3191.125	0.000
L25	46 - 45	TP39.954x39.078x0.45	2153.742	3215.742	0.670	0.000	3215.742	0.000
	45 - 44		2181.650	3240.408	0.673	0.000	3240.408	0.000
	44 - 43		2209.608	3265.133	0.677	0.000	3265.133	0.000
	43 - 42		2237.633	3289.900	0.680	0.000	3289.900	0.000
	42 - 41		2265.725	3314.717	0.684	0.000	3314.717	0.000
L26	41 - 39.5 (26)	TP40.216x39.954x0.45	2307.958	3352.033	0.689	0.000	3352.033	0.000
L27	39.5 - 39.25	TP40.26x40.216x0.488	2315.008	3712.808	0.624	0.000	3712.808	0.000
	(27)							
L28	39.25 - 38.75	TP40.347x40.26x0.488	2329.125	3729.267	0.625	0.000	3729.267	0.000
L29	(28)	TP40.391x40.347x0.475	2336.192	3619.342	0.645	0.000	3619.342	0.000
	(29)							
L30	38.5 - 37.5	TP41.485x40.391x0.475	2364.483	3646.508	0.648	0.000	3646.508	0.000
	37.5 - 32.25		1217.742	3790.008	0.321	0.000	3790.008	0.000
L31	37.5 - 32.25	TP40.91x39.816x0.538	1296.600	4177.017	0.310	0.000	4177.017	0.000
	32.25 - 31.25		2543.133	4213.717	0.604	0.000	4213.717	0.000
L32	31.25 - 30.25	TP41.785x40.91x0.538	2571.975	4250.575	0.605	0.000	4250.575	0.000
	30.25 - 29.25		2600.875	4287.592	0.607	0.000	4287.592	0.000
	29.25 - 28.25		2629.833	4324.767	0.608	0.000	4324.767	0.000
	28.25 - 27.25		2658.833	4362.108	0.610	0.000	4362.108	0.000
	27.25 - 26.25		2687.892	4399.608	0.611	0.000	4399.608	0.000
L33	26.25 - 25.25	TP42.66x41.785x0.538	2717.000	4437.267	0.612	0.000	4437.267	0.000
	25.25 - 24.25		2746.167	4475.092	0.614	0.000	4475.092	0.000
	24.25 - 23.25		2775.375	4513.075	0.615	0.000	4513.075	0.000
	23.25 - 22.25		2804.642	4551.217	0.616	0.000	4551.217	0.000
	22.25 - 21.25		2833.967	4589.517	0.617	0.000	4589.517	0.000
L34	21.25 - 20.25	TP43.536x42.66x0.531	2863.333	4576.192	0.626	0.000	4576.192	0.000
	20.25 - 19.25		2892.750	4614.375	0.627	0.000	4614.375	0.000
	19.25 - 18.25		2922.225	4652.717	0.628	0.000	4652.717	0.000
	18.25 - 17.25		2951.750	4691.217	0.629	0.000	4691.217	0.000
	17.25 - 16.25		2981.317	4729.875	0.630	0.000	4729.875	0.000
L35	16.25 - 15.25	TP44.411x43.536x0.525	3010.942	4711.200	0.639	0.000	4711.200	0.000
	15.25 - 14.25		3040.617	4744.042	0.641	0.000	4744.042	0.000
	14.25 - 13.25		3070.342	4776.950	0.643	0.000	4776.950	0.000
	13.25 - 12.25		3100.117	4809.925	0.645	0.000	4809.925	0.000
	12.25 - 11.25		3129.933	4842.958	0.646	0.000	4842.958	0.000
L36	11.25 - 10 (36)	TP44.63x44.411x0.525	3167.283	4884.333	0.648	0.000	4884.333	0.000
L37	10 - 9.75 (37)	TP44.673x44.63x0.463	3174.758	4149.558	0.765	0.000	4149.558	0.000
L38	9.75 - 8.5	TP45.111x44.673x0.463	3212.192	4183.517	0.768	0.000	4183.517	0.000
	8.5 - 7.25		3249.700	4217.525	0.771	0.000	4217.525	0.000
L39	7.25 - 7 (39)	TP45.155x45.111x0.506	3257.208	4756.817	0.685	0.000	4756.817	0.000

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 40 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Size	M_{ux}	ϕM_{ux}	Ratio	M_{uy}	ϕM_{uy}	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{ux}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{uy}}$
L40	7 - 6	TP46.03x45.155x0.5	3287.267	4711.858	0.698	0.000	4711.858	0.000
	6 - 5		3317.375	4742.833	0.699	0.000	4742.833	0.000
	5 - 4		3347.533	4773.850	0.701	0.000	4773.850	0.000
	4 - 3		3377.733	4804.925	0.703	0.000	4804.925	0.000
	3 - 2		3407.975	4836.042	0.705	0.000	4836.042	0.000
L41	2 - 1	TP46.38x46.03x0.5	3438.275	4867.208	0.706	0.000	4867.208	0.000
	1 - 0		3468.608	4898.425	0.708	0.000	4898.425	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual	ϕV_n	Ratio	Actual	ϕT_n	Ratio
			V_u K	K	$\frac{V_u}{\phi V_n}$	T_u kip-ft	kip-ft	$\frac{T_u}{\phi T_n}$
L1	150 - 149	TP22.875x22x0.25	4.672	285.924	0.016	0.176	551.431	0.000
	149 - 148		4.753	288.207	0.016	0.176	560.271	0.000
	148 - 147		4.843	290.490	0.017	0.029	569.180	0.000
	147 - 146		5.169	292.772	0.018	0.067	578.160	0.000
	146 - 145		5.252	295.055	0.018	0.067	587.211	0.000
L2	145 - 144	TP23.75x22.875x0.25	5.334	297.337	0.018	0.067	596.332	0.000
	144 - 143		5.417	299.620	0.018	0.067	605.523	0.000
	143 - 142		5.501	301.902	0.018	0.067	614.783	0.000
	142 - 141		5.585	304.185	0.018	0.067	624.115	0.000
	141 - 140		5.669	306.468	0.018	0.067	633.517	0.000
L3	140 - 139	TP24.625x23.75x0.25	5.755	308.750	0.019	0.067	642.989	0.000
	139 - 138		5.840	311.033	0.019	0.067	652.532	0.000
	138 - 137		12.414	313.315	0.040	0.795	662.144	0.001
	137 - 136		12.498	315.598	0.040	0.795	671.827	0.001
	136 - 135		12.583	317.881	0.040	0.795	681.580	0.001
L4	135 - 134	TP25.501x24.625x0.25	12.668	320.163	0.040	0.795	691.403	0.001
	134 - 133		12.754	322.446	0.040	0.795	701.298	0.001
	133 - 132		12.839	324.728	0.040	0.795	711.262	0.001
	132 - 131		12.924	327.011	0.040	0.795	721.296	0.001
	131 - 130		13.010	329.294	0.040	0.795	731.401	0.001
L5	130 - 129	TP26.376x25.501x0.25	13.095	331.576	0.039	0.794	741.576	0.001
	129 - 128		13.180	333.859	0.039	0.794	751.821	0.001
	128 - 127		13.265	336.141	0.039	0.794	762.136	0.001
	127 - 126		13.350	338.424	0.039	0.794	772.522	0.001
	126 - 125		13.623	340.706	0.040	0.795	782.978	0.001
L6	125 - 124	TP27.251x26.376x0.25	13.708	342.989	0.040	0.795	793.504	0.001
	124 - 123		18.261	345.272	0.053	0.549	804.101	0.001
	123 - 122		18.343	347.554	0.053	0.548	814.768	0.001
	122 - 121		18.426	349.837	0.053	0.548	825.505	0.001
	121 - 120		18.507	352.119	0.053	0.548	836.317	0.001
L7	120 - 119	TP28.126x27.251x0.25	18.588	354.402	0.052	0.548	847.192	0.001
	119 - 118		18.669	356.685	0.052	0.548	858.142	0.001
	118 - 117		18.750	358.967	0.052	0.548	869.158	0.001
	117 - 116		18.830	361.250	0.052	0.548	880.242	0.001
	116 - 115		18.911	363.532	0.052	0.548	891.408	0.001
L8	115 - 114	TP29.001x28.126x0.25	18.990	365.815	0.052	0.548	902.633	0.001
	114 - 113		19.069	368.097	0.052	0.548	913.933	0.001
	113 - 112		19.148	370.380	0.052	0.548	925.300	0.001
	112 - 111		19.227	372.663	0.052	0.548	936.742	0.001
	111 - 110		19.306	374.945	0.051	0.548	948.250	0.001
L9	110 - 108.75	TP30.314x29.001x0.25	19.405	377.798	0.051	0.547	962.742	0.001
	108.75 - 107.5		19.502	380.652	0.051	0.547	977.333	0.001
	107.5 - 106.25		19.599	383.505	0.051	0.547	992.042	0.001

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)	Page 41 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
	106.25 - 102.5		9.258	392.065	0.024	0.251	1036.825	0.000
L10	106.25 - 102.5	TP30.033x29.158x0.313	10.728	520.988	0.021	0.296	1351.983	0.000
	102.5 - 101.25		23.861	524.851	0.045	0.651	1372.108	0.000
L11	101.25 - 100.25	TP30.908x30.033x0.313	23.934	527.943	0.045	0.651	1388.325	0.000
	100.25 - 99.25		24.010	531.034	0.045	0.651	1404.625	0.000
	99.25 - 98.25		24.086	534.125	0.045	0.651	1421.025	0.000
	98.25 - 97.25		24.162	537.216	0.045	0.651	1437.525	0.000
	97.25 - 96.25		24.237	540.307	0.045	0.651	1454.108	0.000
L12	96.25 - 95.25	TP31.783x30.908x0.313	24.311	543.398	0.045	0.651	1470.800	0.000
	95.25 - 94.25		24.385	546.489	0.045	0.650	1487.575	0.000
	94.25 - 93.25		24.459	549.580	0.045	0.650	1504.458	0.000
	93.25 - 92.25		24.532	552.671	0.044	0.650	1521.425	0.000
	92.25 - 91.25		24.606	555.762	0.044	0.650	1538.492	0.000
L13	91.25 - 90.25	TP32.658x31.783x0.313	24.678	558.854	0.044	0.650	1555.650	0.000
	90.25 - 89.25		24.749	561.945	0.044	0.650	1572.908	0.000
	89.25 - 88.25		24.821	565.036	0.044	0.650	1590.258	0.000
	88.25 - 87.25		24.892	568.127	0.044	0.650	1607.708	0.000
	87.25 - 86.25		24.963	571.218	0.044	0.650	1625.250	0.000
L14	86.25 - 85.25	TP33.534x32.658x0.313	25.032	574.309	0.044	0.649	1642.892	0.000
	85.25 - 84.25		25.102	577.400	0.043	0.649	1660.617	0.000
	84.25 - 83.25		25.171	580.491	0.043	0.649	1678.450	0.000
	83.25 - 82.25		25.240	583.582	0.043	0.649	1696.375	0.000
	82.25 - 81.25		25.348	586.673	0.043	0.649	1714.392	0.000
L15	81.25 - 80.25	TP34.409x33.534x0.313	25.415	589.764	0.043	0.649	1732.500	0.000
	80.25 - 79.25		25.482	592.856	0.043	0.649	1750.708	0.000
	79.25 - 78.25		25.548	595.947	0.043	0.649	1769.017	0.000
	78.25 - 77.25		25.615	599.038	0.043	0.649	1787.417	0.000
	77.25 - 76.25		25.681	602.129	0.043	0.648	1805.908	0.000
L16	76.25 - 74.875	TP34.89x34.409x0.313	25.778	606.379	0.043	0.648	1831.492	0.000
	74.875 - 73.5		25.866	610.629	0.042	0.648	1857.258	0.000
L17	73.5 - 73.25	TP34.934x34.89x0.4	25.864	780.617	0.033	0.648	2371.275	0.000
	(17)							
L18	73.25 - 72.25	TP35.809x34.934x0.4	25.947	784.573	0.033	0.648	2395.375	0.000
	72.25 - 71.25		26.021	788.530	0.033	0.648	2419.600	0.000
	71.25 - 70.25		26.095	792.487	0.033	0.648	2443.942	0.000
	70.25 - 69.25		26.168	796.443	0.033	0.648	2468.408	0.000
	69.25 - 68.25		26.242	800.400	0.033	0.648	2492.992	0.000
L19	68.25 - 66.75	TP36.903x35.809x0.4	26.357	806.335	0.033	0.648	2530.100	0.000
	66.75 - 62		14.296	825.128	0.017	0.342	2649.417	0.000
L20	66.75 - 62	TP36.453x35.447x0.375	12.544	760.842	0.016	0.305	2402.842	0.000
	62 - 61		26.877	764.551	0.035	0.647	2426.325	0.000
L21	61 - 59.8125	TP37.284x36.453x0.375	26.953	768.956	0.035	0.647	2454.358	0.000
	59.8125 - 58.625		27.026	773.360	0.035	0.647	2482.558	0.000
	58.625 - 57.4375		27.098	777.765	0.035	0.647	2510.917	0.000
	57.4375 - 56.25		27.170	782.169	0.035	0.647	2539.433	0.000
L22	56.25 - 56 (22)	TP37.328x37.284x0.456	27.168	950.673	0.029	0.647	3083.375	0.000
L23	56 - 55	TP38.203x37.328x0.456	27.247	955.185	0.029	0.647	3112.717	0.000
	55 - 54		27.314	959.698	0.028	0.647	3142.192	0.000
	54 - 53		27.381	964.211	0.028	0.647	3171.817	0.000
	53 - 52		27.448	968.724	0.028	0.647	3201.575	0.000
	52 - 51		27.515	973.236	0.028	0.647	3231.475	0.000
L24	51 - 50	TP39.078x38.203x0.45	27.579	964.514	0.029	0.647	3217.892	0.000
	50 - 49		27.643	968.965	0.029	0.646	3247.658	0.000
	49 - 48		27.706	973.416	0.028	0.646	3277.567	0.000
	48 - 47		27.770	977.867	0.028	0.646	3307.608	0.000
	47 - 46		27.833	982.318	0.028	0.646	3337.783	0.000

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	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
L25	46 - 45	TP39.954x39.078x0.45	27.894	986.769	0.028	0.646	3368.100	0.000
	45 - 44		27.954	991.220	0.028	0.646	3398.550	0.000
	44 - 43		28.015	995.671	0.028	0.646	3429.142	0.000
	43 - 42		28.075	1000.120	0.028	0.646	3459.867	0.000
	42 - 41		28.135	1004.570	0.028	0.646	3490.733	0.000
L26	41 - 39.5 (26)	TP40.216x39.954x0.45	28.232	1011.250	0.028	0.646	3537.292	0.000
L27	39.5 - 39.25 (27)	TP40.26x40.216x0.488	28.224	1095.690	0.026	0.646	3833.267	0.000
L28	39.25 - 38.75 (28)	TP40.347x40.26x0.488	28.258	1098.100	0.026	0.646	3850.158	0.000
L29	38.75 - 38.5 (29)	TP40.391x40.347x0.475	28.269	1071.460	0.026	0.646	3762.033	0.000
L30	38.5 - 37.5	TP41.485x40.391x0.475	28.339	1076.150	0.026	0.646	3795.092	0.000
	37.5 - 32.25		14.077	1100.820	0.013	0.313	3971.058	0.000
L31	37.5 - 32.25	TP40.91x39.816x0.538	14.742	1220.990	0.012	0.333	4317.283	0.000
	32.25 - 31.25		28.840	1226.300	0.024	0.646	4354.967	0.000
L32	31.25 - 30.25	TP41.785x40.91x0.538	28.893	1231.620	0.023	0.646	4392.808	0.000
	30.25 - 29.25		28.946	1236.940	0.023	0.646	4430.817	0.000
	29.25 - 28.25		28.999	1242.250	0.023	0.646	4468.983	0.000
	28.25 - 27.25		29.051	1247.570	0.023	0.646	4507.325	0.000
	27.25 - 26.25		29.104	1252.890	0.023	0.646	4545.825	0.000
L33	26.25 - 25.25	TP42.66x41.785x0.538	29.156	1258.200	0.023	0.646	4584.483	0.000
	25.25 - 24.25		29.209	1263.520	0.023	0.646	4623.308	0.000
	24.25 - 23.25		29.261	1268.840	0.023	0.646	4662.300	0.000
	23.25 - 22.25		29.313	1274.150	0.023	0.646	4701.458	0.000
	22.25 - 21.25		29.365	1279.470	0.023	0.645	4740.775	0.000
L34	21.25 - 20.25	TP43.536x42.66x0.531	29.416	1270.040	0.023	0.645	4726.067	0.000
	20.25 - 19.25		29.467	1275.290	0.023	0.645	4765.258	0.000
	19.25 - 18.25		29.518	1280.550	0.023	0.645	4804.608	0.000
	18.25 - 17.25		29.569	1285.800	0.023	0.645	4844.117	0.000
	17.25 - 16.25		29.620	1291.060	0.023	0.645	4883.800	0.000
L35	16.25 - 15.25	TP44.411x43.536x0.525	29.670	1281.240	0.023	0.645	4867.117	0.000
	15.25 - 14.25		29.720	1286.440	0.023	0.645	4906.650	0.000
	14.25 - 13.25		29.770	1291.630	0.023	0.645	4946.342	0.000
	13.25 - 12.25		29.820	1296.820	0.023	0.645	4986.200	0.000
	12.25 - 11.25		29.869	1302.020	0.023	0.645	5026.208	0.000
L36	11.25 - 10 (36)	TP44.63x44.411x0.525	29.937	1308.510	0.023	0.645	5076.458	0.000
L37	10 - 9.75 (37)	TP44.673x44.63x0.463	29.927	1155.510	0.026	0.645	4493.692	0.000
L38	9.75 - 8.5	TP45.111x44.673x0.463	30.006	1161.230	0.026	0.645	4538.275	0.000
	8.5 - 7.25		30.060	1166.950	0.026	0.645	4583.083	0.000
L39	7.25 - 7 (39)	TP45.155x45.111x0.506	30.046	1277.340	0.024	0.645	5016.625	0.000
L40	7 - 6	TP46.03x45.155x0.5	30.110	1266.690	0.024	0.645	4995.008	0.000
	6 - 5		30.156	1271.630	0.024	0.645	5034.092	0.000
	5 - 4		30.202	1276.580	0.024	0.645	5073.325	0.000
	4 - 3		30.248	1281.530	0.024	0.645	5112.708	0.000
	3 - 2		30.294	1286.470	0.024	0.645	5152.250	0.000
L41	2 - 1	TP46.38x46.03x0.5	30.340	1291.420	0.023	0.645	5191.942	0.000
	1 - 0		30.386	1296.360	0.023	0.645	5231.783	0.000

Pole Interaction Design Data

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
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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
L1	150 - 149	0.005	0.010	0.000	0.016	0.000	0.015	1.050	4.8.2 ✓
	149 - 148	0.005	0.019	0.000	0.016	0.000	0.024	1.050	4.8.2 ✓
	148 - 147	0.005	0.027	0.000	0.017	0.000	0.033	1.050	4.8.2 ✓
	147 - 146	0.005	0.036	0.000	0.018	0.000	0.042	1.050	4.8.2 ✓
	146 - 145	0.005	0.045	0.000	0.018	0.000	0.051	1.050	4.8.2 ✓
L2	145 - 144	0.005	0.054	0.000	0.018	0.000	0.060	1.050	4.8.2 ✓
	144 - 143	0.005	0.062	0.000	0.018	0.000	0.068	1.050	4.8.2 ✓
	143 - 142	0.006	0.071	0.000	0.018	0.000	0.077	1.050	4.8.2 ✓
	142 - 141	0.006	0.080	0.000	0.018	0.000	0.085	1.050	4.8.2 ✓
	141 - 140	0.006	0.088	0.000	0.018	0.000	0.094	1.050	4.8.2 ✓
L3	140 - 139	0.006	0.096	0.000	0.019	0.000	0.102	1.050	4.8.2 ✓
	139 - 138	0.006	0.105	0.000	0.019	0.000	0.111	1.050	4.8.2 ✓
	138 - 137	0.011	0.127	0.000	0.040	0.001	0.140	1.050	4.8.2 ✓
	137 - 136	0.011	0.146	0.000	0.040	0.001	0.159	1.050	4.8.2 ✓
	136 - 135	0.011	0.164	0.000	0.040	0.001	0.177	1.050	4.8.2 ✓
L4	135 - 134	0.011	0.181	0.000	0.040	0.001	0.195	1.050	4.8.2 ✓
	134 - 133	0.011	0.199	0.000	0.040	0.001	0.212	1.050	4.8.2 ✓
	133 - 132	0.011	0.216	0.000	0.040	0.001	0.229	1.050	4.8.2 ✓
	132 - 131	0.011	0.233	0.000	0.040	0.001	0.246	1.050	4.8.2 ✓
	131 - 130	0.011	0.250	0.000	0.040	0.001	0.263	1.050	4.8.2 ✓
L5	130 - 129	0.011	0.266	0.000	0.039	0.001	0.279	1.050	4.8.2 ✓
	129 - 128	0.011	0.282	0.000	0.039	0.001	0.295	1.050	4.8.2 ✓
	128 - 127	0.012	0.298	0.000	0.039	0.001	0.311	1.050	4.8.2 ✓
	127 - 126	0.012	0.314	0.000	0.039	0.001	0.327	1.050	4.8.2 ✓
	126 - 125	0.012	0.330	0.000	0.040	0.001	0.344	1.050	4.8.2 ✓
L6	125 - 124	0.012	0.346	0.000	0.040	0.001	0.359	1.050	4.8.2 ✓

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315))	Page 44 of 49
	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

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
	124 - 123	0.016	0.376	0.000	0.053	0.001	0.394	1.050	4.8.2 ✓
	123 - 122	0.016	0.397	0.000	0.053	0.001	0.415	1.050	4.8.2 ✓
	122 - 121	0.016	0.418	0.000	0.053	0.001	0.436	1.050	4.8.2 ✓
	121 - 120	0.016	0.438	0.000	0.053	0.001	0.456	1.050	4.8.2 ✓
L7	120 - 119	0.016	0.458	0.000	0.052	0.001	0.476	1.050	4.8.2 ✓
	119 - 118	0.016	0.478	0.000	0.052	0.001	0.496	1.050	4.8.2 ✓
	118 - 117	0.016	0.497	0.000	0.052	0.001	0.515	1.050	4.8.2 ✓
	117 - 116	0.016	0.516	0.000	0.052	0.001	0.534	1.050	4.8.2 ✓
	116 - 115	0.016	0.535	0.000	0.052	0.001	0.553	1.050	4.8.2 ✓
L8	115 - 114	0.016	0.553	0.000	0.052	0.001	0.572	1.050	4.8.2 ✓
	114 - 113	0.016	0.572	0.000	0.052	0.001	0.590	1.050	4.8.2 ✓
	113 - 112	0.016	0.590	0.000	0.052	0.001	0.608	1.050	4.8.2 ✓
	112 - 111	0.016	0.607	0.000	0.052	0.001	0.626	1.050	4.8.2 ✓
	111 - 110	0.016	0.625	0.000	0.051	0.001	0.643	1.050	4.8.2 ✓
L9	110 - 108.75	0.016	0.646	0.000	0.051	0.001	0.665	1.050	4.8.2 ✓
	108.75 - 107.5	0.016	0.667	0.000	0.051	0.001	0.686	1.050	4.8.2 ✓
	107.5 - 106.25	0.016	0.688	0.000	0.051	0.001	0.706	1.050	4.8.2 ✓
	106.25 - 102.5	0.007	0.343	0.000	0.024	0.000	0.351	1.050	4.8.2 ✓
L10	106.25 - 102.5	0.007	0.287	0.000	0.021	0.000	0.294	1.050	4.8.2 ✓
	102.5 - 101.25	0.015	0.549	0.000	0.045	0.000	0.565	1.050	4.8.2 ✓
L11	101.25 - 100.25	0.015	0.562	0.000	0.045	0.000	0.579	1.050	4.8.2 ✓
	100.25 - 99.25	0.015	0.575	0.000	0.045	0.000	0.592	1.050	4.8.2 ✓
	99.25 - 98.25	0.015	0.588	0.000	0.045	0.000	0.605	1.050	4.8.2 ✓
	98.25 - 97.25	0.015	0.601	0.000	0.045	0.000	0.618	1.050	4.8.2 ✓
	97.25 - 96.25	0.015	0.613	0.000	0.045	0.000	0.630	1.050	4.8.2 ✓
L12	96.25 - 95.25	0.015	0.626	0.000	0.045	0.000	0.642	1.050	4.8.2 ✓

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job 81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 876315)</p>	<p>Page 45 of 49</p>
	<p>Project</p>	<p>Date 14:38:46 07/22/23</p>
	<p>Client Crown Castle</p>	<p>Designed by Jayaraj B</p>

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
	95.25 - 94.25	0.015	0.638	0.000	0.045	0.000	0.655	1.050	4.8.2 ✓
	94.25 - 93.25	0.015	0.650	0.000	0.045	0.000	0.667	1.050	4.8.2 ✓
	93.25 - 92.25	0.015	0.662	0.000	0.044	0.000	0.678	1.050	4.8.2 ✓
	92.25 - 91.25	0.015	0.673	0.000	0.044	0.000	0.690	1.050	4.8.2 ✓
L13	91.25 - 90.25	0.015	0.685	0.000	0.044	0.000	0.702	1.050	4.8.2 ✓
	90.25 - 89.25	0.015	0.696	0.000	0.044	0.000	0.713	1.050	4.8.2 ✓
	89.25 - 88.25	0.015	0.707	0.000	0.044	0.000	0.724	1.050	4.8.2 ✓
	88.25 - 87.25	0.015	0.718	0.000	0.044	0.000	0.735	1.050	4.8.2 ✓
	87.25 - 86.25	0.015	0.729	0.000	0.044	0.000	0.746	1.050	4.8.2 ✓
L14	86.25 - 85.25	0.015	0.740	0.000	0.044	0.000	0.757	1.050	4.8.2 ✓
	85.25 - 84.25	0.015	0.750	0.000	0.043	0.000	0.767	1.050	4.8.2 ✓
	84.25 - 83.25	0.015	0.761	0.000	0.043	0.000	0.778	1.050	4.8.2 ✓
	83.25 - 82.25	0.015	0.771	0.000	0.043	0.000	0.788	1.050	4.8.2 ✓
	82.25 - 81.25	0.015	0.781	0.000	0.043	0.000	0.798	1.050	4.8.2 ✓
L15	81.25 - 80.25	0.015	0.791	0.000	0.043	0.000	0.808	1.050	4.8.2 ✓
	80.25 - 79.25	0.015	0.801	0.000	0.043	0.000	0.818	1.050	4.8.2 ✓
	79.25 - 78.25	0.015	0.811	0.000	0.043	0.000	0.828	1.050	4.8.2 ✓
	78.25 - 77.25	0.015	0.821	0.000	0.043	0.000	0.838	1.050	4.8.2 ✓
	77.25 - 76.25	0.015	0.830	0.000	0.043	0.000	0.847	1.050	4.8.2 ✓
L16	76.25 - 74.875	0.015	0.843	0.000	0.043	0.000	0.860	1.050	4.8.2 ✓
	74.875 - 73.5	0.015	0.856	0.000	0.042	0.000	0.873	1.050	4.8.2 ✓
L17	73.5 - 73.25 (17)	0.012	0.616	0.000	0.033	0.000	0.629	1.050	4.8.2 ✓
L18	73.25 - 72.25	0.012	0.622	0.000	0.033	0.000	0.635	1.050	4.8.2 ✓
	72.25 - 71.25	0.012	0.628	0.000	0.033	0.000	0.641	1.050	4.8.2 ✓
	71.25 - 70.25	0.012	0.634	0.000	0.033	0.000	0.647	1.050	4.8.2 ✓
	70.25 - 69.25	0.012	0.639	0.000	0.033	0.000	0.653	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
	69.25 - 68.25	0.012	0.645	0.000	0.033	0.000	0.658	1.050	4.8.2 ✓
L19	68.25 - 66.75	0.012	0.654	0.000	0.033	0.000	0.667	1.050	4.8.2 ✓
	66.75 - 62	0.007	0.359	0.000	0.017	0.000	0.366	1.050	4.8.2 ✓
L20	66.75 - 62	0.007	0.359	0.000	0.016	0.000	0.366	1.050	4.8.2 ✓
	62 - 61	0.014	0.768	0.000	0.035	0.000	0.783	1.050	4.8.2 ✓
L21	61 - 59.8125	0.014	0.775	0.000	0.035	0.000	0.789	1.050	4.8.2 ✓
	59.8125 - 58.625	0.014	0.781	0.000	0.035	0.000	0.796	1.050	4.8.2 ✓
	58.625 - 57.4375	0.014	0.788	0.000	0.035	0.000	0.803	1.050	4.8.2 ✓
	57.4375 - 56.25	0.014	0.795	0.000	0.035	0.000	0.810	1.050	4.8.2 ✓
L22	56.25 - 56 (22)	0.011	0.620	0.000	0.029	0.000	0.632	1.050	4.8.2 ✓
L23	56 - 55	0.011	0.623	0.000	0.029	0.000	0.635	1.050	4.8.2 ✓
	55 - 54	0.011	0.626	0.000	0.028	0.000	0.638	1.050	4.8.2 ✓
	54 - 53	0.012	0.629	0.000	0.028	0.000	0.641	1.050	4.8.2 ✓
	53 - 52	0.012	0.633	0.000	0.028	0.000	0.645	1.050	4.8.2 ✓
	52 - 51	0.012	0.636	0.000	0.028	0.000	0.649	1.050	4.8.2 ✓
L24	51 - 50	0.012	0.651	0.000	0.029	0.000	0.664	1.050	4.8.2 ✓
	50 - 49	0.012	0.655	0.000	0.029	0.000	0.668	1.050	4.8.2 ✓
	49 - 48	0.012	0.659	0.000	0.028	0.000	0.672	1.050	4.8.2 ✓
	48 - 47	0.012	0.663	0.000	0.028	0.000	0.675	1.050	4.8.2 ✓
	47 - 46	0.012	0.666	0.000	0.028	0.000	0.679	1.050	4.8.2 ✓
L25	46 - 45	0.012	0.670	0.000	0.028	0.000	0.683	1.050	4.8.2 ✓
	45 - 44	0.012	0.673	0.000	0.028	0.000	0.686	1.050	4.8.2 ✓
	44 - 43	0.012	0.677	0.000	0.028	0.000	0.690	1.050	4.8.2 ✓
	43 - 42	0.012	0.680	0.000	0.028	0.000	0.693	1.050	4.8.2 ✓
	42 - 41	0.012	0.684	0.000	0.028	0.000	0.696	1.050	4.8.2 ✓
L26	41 - 39.5 (26)	0.012	0.689	0.000	0.028	0.000	0.701	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
L27	39.5 - 39.25 (27)	0.011	0.624	0.000	0.026	0.000	0.635	1.050	4.8.2 ✓
L28	39.25 - 38.75 (28)	0.011	0.625	0.000	0.026	0.000	0.637	1.050	4.8.2 ✓
L29	38.75 - 38.5 (29)	0.012	0.645	0.000	0.026	0.000	0.658	1.050	4.8.2 ✓
L30	38.5 - 37.5	0.012	0.648	0.000	0.026	0.000	0.661	1.050	4.8.2 ✓
	37.5 - 32.25	0.006	0.321	0.000	0.013	0.000	0.327	1.050	4.8.2 ✓
L31	37.5 - 32.25	0.006	0.310	0.000	0.012	0.000	0.316	1.050	4.8.2 ✓
	32.25 - 31.25	0.011	0.604	0.000	0.024	0.000	0.615	1.050	4.8.2 ✓
L32	31.25 - 30.25	0.011	0.605	0.000	0.023	0.000	0.617	1.050	4.8.2 ✓
	30.25 - 29.25	0.011	0.607	0.000	0.023	0.000	0.618	1.050	4.8.2 ✓
	29.25 - 28.25	0.011	0.608	0.000	0.023	0.000	0.620	1.050	4.8.2 ✓
	28.25 - 27.25	0.011	0.610	0.000	0.023	0.000	0.621	1.050	4.8.2 ✓
	27.25 - 26.25	0.011	0.611	0.000	0.023	0.000	0.623	1.050	4.8.2 ✓
L33	26.25 - 25.25	0.011	0.612	0.000	0.023	0.000	0.624	1.050	4.8.2 ✓
	25.25 - 24.25	0.011	0.614	0.000	0.023	0.000	0.626	1.050	4.8.2 ✓
	24.25 - 23.25	0.011	0.615	0.000	0.023	0.000	0.627	1.050	4.8.2 ✓
	23.25 - 22.25	0.011	0.616	0.000	0.023	0.000	0.628	1.050	4.8.2 ✓
	22.25 - 21.25	0.011	0.617	0.000	0.023	0.000	0.629	1.050	4.8.2 ✓
L34	21.25 - 20.25	0.012	0.626	0.000	0.023	0.000	0.638	1.050	4.8.2 ✓
	20.25 - 19.25	0.012	0.627	0.000	0.023	0.000	0.639	1.050	4.8.2 ✓
	19.25 - 18.25	0.012	0.628	0.000	0.023	0.000	0.640	1.050	4.8.2 ✓
	18.25 - 17.25	0.012	0.629	0.000	0.023	0.000	0.641	1.050	4.8.2 ✓
	17.25 - 16.25	0.012	0.630	0.000	0.023	0.000	0.643	1.050	4.8.2 ✓
L35	16.25 - 15.25	0.012	0.639	0.000	0.023	0.000	0.652	1.050	4.8.2 ✓
	15.25 - 14.25	0.012	0.641	0.000	0.023	0.000	0.653	1.050	4.8.2 ✓
	14.25 - 13.25	0.012	0.643	0.000	0.023	0.000	0.655	1.050	4.8.2 ✓
	13.25 - 12.25	0.012	0.645	0.000	0.023	0.000	0.657	1.050	4.8.2 ✓

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	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

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
	12.25 - 11.25	0.012	0.646	0.000	0.023	0.000	0.659	1.050	4.8.2 ✓
L36	11.25 - 10 (36)	0.012	0.648	0.000	0.023	0.000	0.661	1.050	4.8.2 ✓
L37	10 - 9.75 (37)	0.014	0.765	0.000	0.026	0.000	0.780	1.050	4.8.2 ✓
L38	9.75 - 8.5	0.014	0.768	0.000	0.026	0.000	0.782	1.050	4.8.2 ✓
	8.5 - 7.25	0.014	0.771	0.000	0.026	0.000	0.785	1.050	4.8.2 ✓
L39	7.25 - 7 (39)	0.013	0.685	0.000	0.024	0.000	0.698	1.050	4.8.2 ✓
L40	7 - 6	0.013	0.698	0.000	0.024	0.000	0.711	1.050	4.8.2 ✓
	6 - 5	0.013	0.699	0.000	0.024	0.000	0.713	1.050	4.8.2 ✓
	5 - 4	0.013	0.701	0.000	0.024	0.000	0.715	1.050	4.8.2 ✓
	4 - 3	0.013	0.703	0.000	0.024	0.000	0.716	1.050	4.8.2 ✓
	3 - 2	0.013	0.705	0.000	0.024	0.000	0.718	1.050	4.8.2 ✓
L41	2 - 1	0.013	0.706	0.000	0.023	0.000	0.720	1.050	4.8.2 ✓
	1 - 0	0.013	0.708	0.000	0.023	0.000	0.722	1.050	4.8.2 ✓

Section Capacity Table

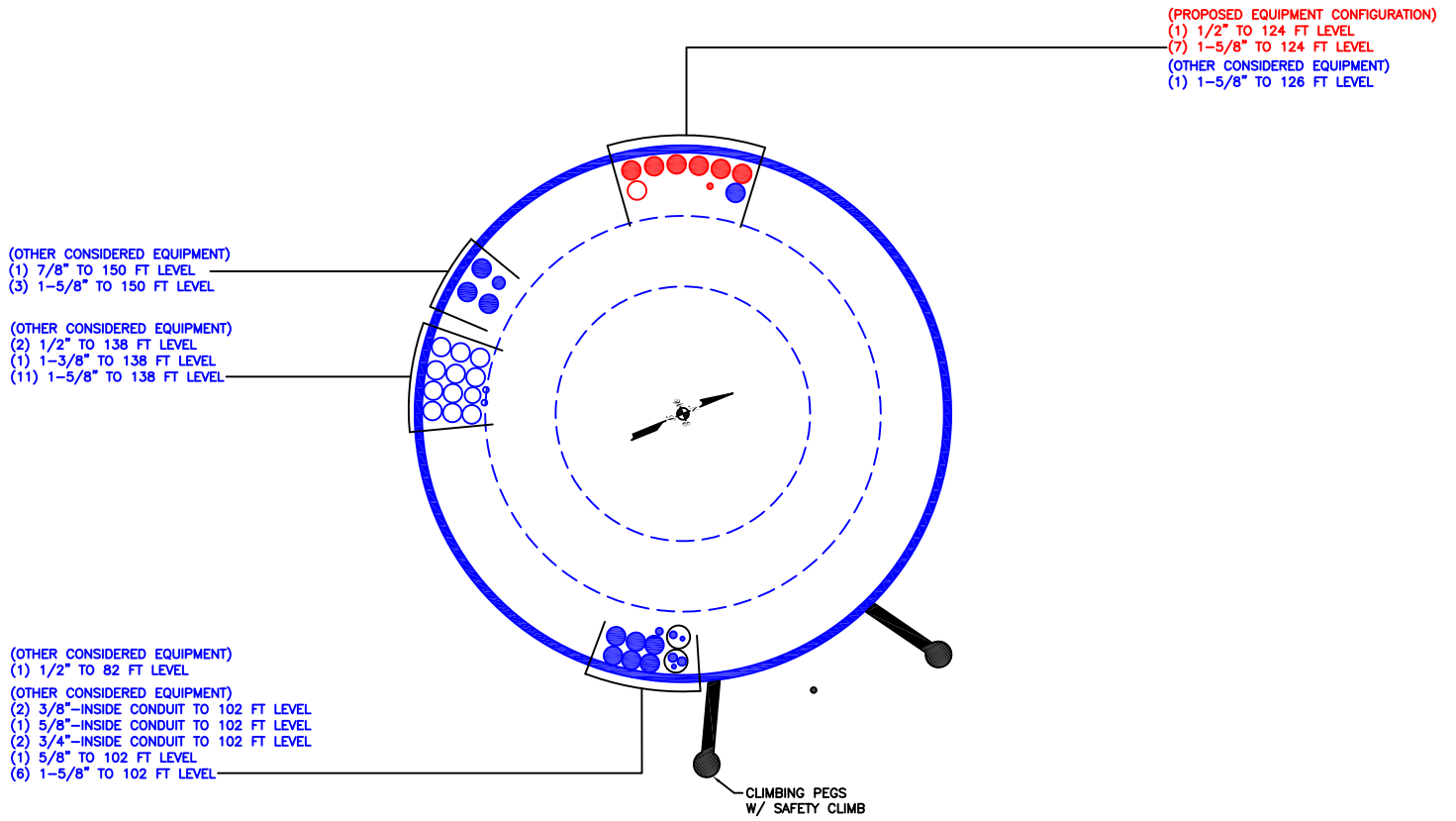
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 145	Pole	TP22.875x22x0.25	1	-5.341	1032.692	**	**
L2	145 - 140	Pole	TP23.75x22.875x0.25	2	-5.720	1072.638	**	**
L3	140 - 135	Pole	TP24.625x23.75x0.25	3	-12.095	1112.580	**	**
L4	135 - 130	Pole	TP25.501x24.625x0.25	4	-12.590	1152.532	**	**
L5	130 - 125	Pole	TP26.376x25.501x0.25	5	-13.141	1192.474	**	**
L6	125 - 120	Pole	TP27.251x26.376x0.25	6	-18.266	1232.416	**	**
L7	120 - 115	Pole	TP28.126x27.251x0.25	7	-18.901	1272.358	**	**
L8	115 - 110	Pole	TP29.001x28.126x0.25	8	-19.567	1312.311	**	**
L9	110 - 102.5	Pole	TP30.314x29.001x0.25	9	-20.081	1342.267	**	**
L10	102.5 - 101.25	Pole	TP30.033x29.158x0.313	10	-25.403	1836.975	**	**
L11	101.25 - 96.25	Pole	TP30.908x30.033x0.313	11	-26.336	1891.071	**	**
L12	96.25 - 91.25	Pole	TP31.783x30.908x0.313	12	-27.298	1945.167	**	**
L13	91.25 - 86.25	Pole	TP32.658x31.783x0.313	13	-28.289	1999.263	**	**
L14	86.25 - 81.25	Pole	TP33.534x32.658x0.313	14	-29.389	2053.359	**	**
L15	81.25 - 76.25	Pole	TP34.409x33.534x0.313	15	-30.438	2107.455	**	**
L16	76.25 - 73.5	Pole	TP34.89x34.409x0.313	16	-31.019	2137.201	**	**
L17	73.5 - 73.25	Pole	TP34.934x34.89x0.4	17	-31.100	2732.163	**	**
L18	73.25 - 68.25	Pole	TP35.809x34.934x0.4	18	-32.325	2801.400	**	**

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	Project	Date 14:38:46 07/22/23
	Client Crown Castle	Designed by Jayaraj B

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L19	68.25 - 62	Pole	TP36.903x35.809x0.4	19	-32.694	2822.169	**	**
L20	62 - 61	Pole	TP36.453x35.447x0.375	20	-34.923	2675.925	**	**
L21	61 - 56.25	Pole	TP37.284x36.453x0.375	21	-36.121	2737.591	**	**
L22	56.25 - 56	Pole	TP37.328x37.284x0.456	22	-36.209	3327.355	**	**
L23	56 - 51	Pole	TP38.203x37.328x0.456	23	-37.644	3406.326	**	**
L24	51 - 46	Pole	TP39.078x38.203x0.45	24	-39.117	3438.109	**	**
L25	46 - 41	Pole	TP39.954x39.078x0.45	25	-40.616	3515.998	**	**
L26	41 - 39.5	Pole	TP40.216x39.954x0.45	26	-41.063	3539.371	**	**
L27	39.5 - 39.25	Pole	TP40.26x40.216x0.488	27	-41.165	3834.925	**	**
L28	39.25 - 38.75	Pole	TP40.347x40.26x0.488	28	-41.329	3843.357	**	**
L29	38.75 - 38.5	Pole	TP40.391x40.347x0.475	29	-41.411	3750.096	**	**
L30	38.5 - 32.25	Pole	TP41.485x40.391x0.475	30	-41.718	3766.539	**	**
L31	32.25 - 31.25	Pole	TP40.91x39.816x0.538	31	-45.133	4292.064	**	**
L32	31.25 - 26.25	Pole	TP41.785x40.91x0.538	32	-46.897	4385.104	**	**
L33	26.25 - 21.25	Pole	TP42.66x41.785x0.538	33	-48.688	4478.145	**	**
L34	21.25 - 16.25	Pole	TP43.536x42.66x0.531	34	-50.507	4518.696	**	**
L35	16.25 - 11.25	Pole	TP44.411x43.536x0.525	35	-52.354	4557.063	**	**
L36	11.25 - 10	Pole	TP44.63x44.411x0.525	36	-52.817	4579.774	**	**
L37	10 - 9.75	Pole	TP44.673x44.63x0.463	37	-52.920	4044.285	**	**
L38	9.75 - 7.25	Pole	TP45.111x44.673x0.463	38	-53.811	4084.321	**	**
L39	7.25 - 7	Pole	TP45.155x45.111x0.506	39	-53.916	4470.669	**	**
L40	7 - 2	Pole	TP46.03x45.155x0.5	40	-55.728	4502.652	**	**
L41	2 - 0	Pole	TP46.38x46.03x0.5	41	-56.465	4537.270	**	**
						Summary		
						Pole (L16)	**	**
						RATING =	**	**

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

APPENDIX B
BASE LEVEL DRAWING



BUSINESS UNIT: 876315

APPENDIX C
ADDITIONAL CALCULATIONS

Site BU: 876315
Work Order: 2247221



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Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	150	47.5	3.75	12	22	30.314	0.25	Auto	A607-60
2	106.25	44.25	4.75	12	29.16	36.903	0.3125	Auto	A607-65
3	66.75	34.5	5.25	12	35.45	41.485	0.375	Auto	A607-65
4	37.5	37.5	0	12	39.82	46.38	0.4375	Auto	A607-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12
1	0	10	plate	PL 4x1 (5TB)	1			E2									
2	0	39.5	plate	Plate 4x1 (7TB)	2								E2				E2
3	7.25	38.75	plate	Plate 4x1 (7TB)	1				E2								
4	38.75	56.25	plate	Plate 4x0.75 (5TB)	3			E2				E2				E2	
5	66	73.5	plate	Plate 4x0.75 (5TB)	3				E2				E2				E2
6																	
7																	
8																	
9																	
10																	

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	4	1	4	0.5	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	15.000	20.000	2.750	1.1875	A514-GR100
2	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A514-GR100
3	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A514-GR100
4	4	0.75	3	0.375	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	15.000	15.000	2.063	1.1875	A514-GR100
5	4	0.75	3	0.375	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	15.000	15.000	2.063	1.1875	A514-GR100

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)
PL 4x1 (5TB)	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	5	N	3	3	-	-	-	-	-	-	-	-	-
Plate 4x0.75 (5TB)	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	5	N	3	3	-	-	-	-	-	-	-	-	-
Plate 4x1 (7TB)	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	7	N	3	3	-	-	-	-	-	-	-	-	-

TNX Geometry Input

Increment (ft): [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	150 - 145	5		12	22.000	22.875	0.25	A607-60	1.000
2	145 - 140	5		12	22.875	23.750	0.25	A607-60	1.000
3	140 - 135	5		12	23.750	24.625	0.25	A607-60	1.000
4	135 - 130	5		12	24.625	25.501	0.25	A607-60	1.000
5	130 - 125	5		12	25.501	26.376	0.25	A607-60	1.000
6	125 - 120	5		12	26.376	27.251	0.25	A607-60	1.000
7	120 - 115	5		12	27.251	28.126	0.25	A607-60	1.000
8	115 - 110	5		12	28.126	29.001	0.25	A607-60	1.000
9	110 - 106.25	7.5	3.75	12	29.001	30.314	0.25	A607-60	1.000
10	106.25 - 101.25	5		12	29.158	30.033	0.3125	A607-65	1.000
11	101.25 - 96.25	5		12	30.033	30.908	0.3125	A607-65	1.000
12	96.25 - 91.25	5		12	30.908	31.783	0.3125	A607-65	1.000
13	91.25 - 86.25	5		12	31.783	32.658	0.3125	A607-65	1.000
14	86.25 - 81.25	5		12	32.658	33.534	0.3125	A607-65	1.000
15	81.25 - 76.25	5		12	33.534	34.409	0.3125	A607-65	1.000
16	76.25 - 73.5	2.75		12	34.409	34.890	0.3125	A607-65	1.000
17	73.5 - 73.25	0.25		12	34.890	34.934	0.4	A607-65	0.986
18	73.25 - 68.25	5		12	34.934	35.809	0.4	A607-65	0.981
19	68.25 - 66.75	6.25	4.75	12	35.809	36.903	0.4	A607-65	0.979
20	66.75 - 61	5.75		12	35.447	36.453	0.375	A607-65	1.000
21	61 - 56.25	4.75		12	36.453	37.284	0.375	A607-65	1.000
22	56.25 - 56	0.25		12	37.284	37.328	0.45625	A607-65	0.990
23	56 - 51	5		12	37.328	38.203	0.45625	A607-65	0.986
24	51 - 46	5		12	38.203	39.078	0.45	A607-65	0.996
25	46 - 41	5		12	39.078	39.954	0.45	A607-65	0.992
26	41 - 39.5	1.5		12	39.954	40.216	0.45	A607-65	0.991
27	39.5 - 39.25	0.25		12	40.216	40.260	0.4875	A607-65	1.044
28	39.25 - 38.75	0.5		12	40.260	40.347	0.4875	A607-65	1.043
29	38.75 - 38.5	0.25		12	40.347	40.391	0.475	A607-65	0.988
30	38.5 - 37.5	6.25	5.25	12	40.391	41.485	0.475	A607-65	0.987
31	37.5 - 31.25	6.25		12	39.816	40.910	0.5375	A607-65	0.988
32	31.25 - 26.25	5		12	40.910	41.785	0.5375	A607-65	0.984
33	26.25 - 21.25	5		12	41.785	42.660	0.5375	A607-65	0.981
34	21.25 - 16.25	5		12	42.660	43.536	0.53125	A607-65	0.989
35	16.25 - 11.25	5		12	43.536	44.411	0.525	A607-65	0.997
36	11.25 - 10	1.25		12	44.411	44.630	0.525	A607-65	0.996
37	10 - 9.75	0.25		12	44.630	44.673	0.4625	A607-65	1.068
38	9.75 - 7.25	2.5		12	44.673	45.111	0.4625	A607-65	1.067
39	7.25 - 7	0.25		12	45.111	45.155	0.50625	A607-65	0.976
40	7 - 2	5		12	45.155	46.030	0.5	A607-65	0.985
41	2 - 0	2		12	46.030	46.380	0.5	A607-65	0.985

TNX Section Forces

Increment (ft):		TNX Output			
	5	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	150 - 145		5.34	25.16	5.25
2	145 - 140		5.72	52.46	5.67
3	140 - 135		12.10	103.74	12.58
4	135 - 130		12.59	167.71	13.01
5	130 - 125		13.14	234.65	13.62
6	125 - 120		18.27	328.03	18.51
7	120 - 115		18.90	421.54	18.91
8	115 - 110		19.57	517.03	19.31
9	110 - 106.25		20.08	589.93	19.60
10	106.25 - 101.25		25.40	696.59	23.86
11	101.25 - 96.25		26.34	816.76	24.24
12	96.25 - 91.25		27.30	938.79	24.61
13	91.25 - 86.25		28.29	1062.63	24.96
14	86.25 - 81.25		29.39	1188.55	25.35
15	81.25 - 76.25		30.44	1316.03	25.68
16	76.25 - 73.5		31.02	1386.85	25.87
17	73.5 - 73.25		31.10	1393.31	25.86
18	73.25 - 68.25		32.33	1523.51	26.24
19	68.25 - 66.75		32.69	1562.93	26.36
20	66.75 - 61		34.92	1715.93	26.88
21	61 - 56.25		36.12	1844.19	27.17
22	56.25 - 56		36.21	1850.97	27.17
23	56 - 51		37.64	1987.62	27.52
24	51 - 46		39.12	2125.90	27.83
25	46 - 41		40.62	2265.72	28.13
26	41 - 39.5		41.06	2307.96	28.23
27	39.5 - 39.25		41.16	2315.01	28.22
28	39.25 - 38.75		41.33	2329.13	28.26
29	38.75 - 38.5		41.41	2336.19	28.27
30	38.5 - 37.5		41.72	2364.48	28.34
31	37.5 - 31.25		45.13	2543.13	28.84
32	31.25 - 26.25		46.90	2687.89	29.10
33	26.25 - 21.25		48.69	2833.96	29.36
34	21.25 - 16.25		50.51	2981.32	29.62
35	16.25 - 11.25		52.35	3129.94	29.87
36	11.25 - 10		52.82	3167.28	29.94
37	10 - 9.75		52.92	3174.76	29.93
38	9.75 - 7.25		53.81	3249.70	30.06
39	7.25 - 7		53.92	3257.20	30.05
40	7 - 2		55.73	3407.98	30.29
41	2 - 0		56.46	3468.61	30.39

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP22.875x22x0.25	Pole	4.8%	Pass
145 - 140	Pole	TP23.75x22.875x0.25	Pole	8.9%	Pass
140 - 135	Pole	TP24.625x23.75x0.25	Pole	16.8%	Pass
135 - 130	Pole	TP25.501x24.625x0.25	Pole	25.0%	Pass
130 - 125	Pole	TP26.376x25.501x0.25	Pole	32.6%	Pass
125 - 120	Pole	TP27.251x26.376x0.25	Pole	43.3%	Pass
120 - 115	Pole	TP28.126x27.251x0.25	Pole	52.5%	Pass
115 - 110	Pole	TP29.001x28.126x0.25	Pole	61.1%	Pass
110 - 106.25	Pole	TP30.314x29.001x0.25	Pole	67.1%	Pass
106.25 - 101.25	Pole	TP30.033x29.158x0.3125	Pole	53.7%	Pass
101.25 - 96.25	Pole	TP30.908x30.033x0.3125	Pole	59.8%	Pass
96.25 - 91.25	Pole	TP31.783x30.908x0.3125	Pole	65.5%	Pass
91.25 - 86.25	Pole	TP32.658x31.783x0.3125	Pole	70.8%	Pass
86.25 - 81.25	Pole	TP33.534x32.658x0.3125	Pole	75.8%	Pass
81.25 - 76.25	Pole	TP34.409x33.534x0.3125	Pole	80.5%	Pass
76.25 - 73.5	Pole	TP34.89x34.409x0.3125	Pole	82.9%	Pass
73.5 - 73.25	Pole + Reinf.	TP34.934x34.89x0.4	Reinf. 5 Tension Rupture	75.1%	Pass
73.25 - 68.25	Pole + Reinf.	TP35.809x34.934x0.4	Reinf. 5 Tension Rupture	78.5%	Pass
68.25 - 66.75	Pole + Reinf.	TP36.903x35.809x0.4	Reinf. 5 Tension Rupture	79.5%	Pass
66.75 - 61	Pole	TP36.453x35.447x0.375	Pole	74.3%	Pass
61 - 56.25	Pole	TP37.284x36.453x0.375	Pole	76.9%	Pass
56.25 - 56	Pole + Reinf.	TP37.328x37.284x0.4563	Reinf. 4 Tension Rupture	76.5%	Pass
56 - 51	Pole + Reinf.	TP38.203x37.328x0.4563	Reinf. 4 Tension Rupture	78.7%	Pass
51 - 46	Pole + Reinf.	TP39.078x38.203x0.45	Reinf. 4 Tension Rupture	80.6%	Pass
46 - 41	Pole + Reinf.	TP39.954x39.078x0.45	Reinf. 4 Tension Rupture	82.4%	Pass
41 - 39.5	Pole + Reinf.	TP40.216x39.954x0.45	Reinf. 4 Tension Rupture	83.0%	Pass
39.5 - 39.25	Pole + Reinf.	TP40.26x40.216x0.4875	Reinf. 4 Tension Rupture	79.9%	Pass
39.25 - 38.75	Pole + Reinf.	TP40.347x40.26x0.4875	Reinf. 4 Tension Rupture	80.1%	Pass
38.75 - 38.5	Pole + Reinf.	TP40.391x40.347x0.475	Reinf. 3 Tension Rupture	79.3%	Pass
38.5 - 37.5	Pole + Reinf.	TP41.485x40.391x0.475	Reinf. 3 Tension Rupture	79.6%	Pass
37.5 - 31.25	Pole + Reinf.	TP40.91x39.816x0.5375	Reinf. 3 Tension Rupture	74.8%	Pass
31.25 - 26.25	Pole + Reinf.	TP41.785x40.91x0.5375	Reinf. 3 Tension Rupture	76.0%	Pass
26.25 - 21.25	Pole + Reinf.	TP42.66x41.785x0.5375	Reinf. 3 Tension Rupture	77.1%	Pass
21.25 - 16.25	Pole + Reinf.	TP43.536x42.66x0.5313	Reinf. 3 Tension Rupture	78.1%	Pass
16.25 - 11.25	Pole + Reinf.	TP44.411x43.536x0.525	Reinf. 3 Tension Rupture	79.0%	Pass
11.25 - 10	Pole + Reinf.	TP44.63x44.411x0.525	Reinf. 3 Tension Rupture	79.2%	Pass
10 - 9.75	Pole + Reinf.	TP44.673x44.63x0.4625	Pole	78.7%	Pass
9.75 - 7.25	Pole + Reinf.	TP45.111x44.673x0.4625	Pole	79.2%	Pass
7.25 - 7	Pole + Reinf.	TP45.155x45.111x0.5063	Reinf. 2 Tension Rupture	79.9%	Pass
7 - 2	Pole + Reinf.	TP46.03x45.155x0.5	Reinf. 2 Tension Rupture	80.7%	Pass
2 - 0	Pole + Reinf.	TP46.38x46.03x0.5	Reinf. 2 Tension Rupture	81.0%	Pass
				Summary	
			Pole	82.9%	Pass
			Reinforcement	83.0%	Pass
			Overall	83.0%	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
150 - 145	1192	n/a	1192	18.19	n/a	18.19	4.8%					
145 - 140	1335	n/a	1335	18.89	n/a	18.89	8.9%					
140 - 135	1490	n/a	1490	19.59	n/a	19.59	16.8%					
135 - 130	1656	n/a	1656	20.30	n/a	20.30	25.0%					
130 - 125	1835	n/a	1835	21.00	n/a	21.00	32.6%					
125 - 120	2025	n/a	2025	21.70	n/a	21.70	43.3%					
120 - 115	2229	n/a	2229	22.41	n/a	22.41	52.5%					
115 - 110	2445	n/a	2445	23.11	n/a	23.11	61.1%					
110 - 106.25	2617	n/a	2617	23.64	n/a	23.64	67.1%					
106.25 - 101.25	3376	n/a	3376	29.86	n/a	29.86	53.7%					
101.25 - 96.25	3683	n/a	3683	30.74	n/a	30.74	59.8%					
96.25 - 91.25	4009	n/a	4009	31.62	n/a	31.62	65.5%					
91.25 - 86.25	4352	n/a	4352	32.50	n/a	32.50	70.8%					
86.25 - 81.25	4715	n/a	4715	33.38	n/a	33.38	75.8%					
81.25 - 76.25	5098	n/a	5098	34.26	n/a	34.26	80.5%					
76.25 - 73.5	5317	n/a	5317	34.74	n/a	34.74	82.9%					
73.5 - 73.25	5337	1439	6776	34.79	9.00	43.79	63.3%					75.1%
73.25 - 68.25	5752	1510	7262	35.67	9.00	44.67	66.9%					78.5%
68.25 - 66.75	5881	1532	7412	35.93	9.00	44.93	67.9%					79.5%
66.75 - 61	7247	n/a	7247	43.50	n/a	43.50	74.3%					
61 - 56.25	7760	n/a	7760	44.50	n/a	44.50	76.9%					
56.25 - 56	7788	1637	9425	44.56	9.00	53.56	61.5%				76.5%	
56 - 51	8354	1713	10068	45.61	9.00	54.61	63.9%				78.7%	
51 - 46	8948	1791	10738	46.67	9.00	55.67	66.1%				80.6%	
46 - 41	9568	1870	11438	47.72	9.00	56.72	68.2%				82.4%	
41 - 39.5	9760	1894	11654	48.04	9.00	57.04	68.8%				83.0%	
39.5 - 39.25	9856	2911	12767	48.09	17.00	65.09	67.8%		68.8%		79.9%	
39.25 - 38.75	9921	2924	12844	48.20	17.00	65.20	68.0%		68.9%		80.1%	
38.75 - 38.5	9889	2578	12468	48.25	12.00	60.25	65.5%		79.3%	79.3%		
38.5 - 37.5	10020	2600	12620	48.46	12.00	60.46	65.9%		79.6%	79.6%		
37.5 - 31.25	11937	2643	14580	56.93	12.00	68.93	58.6%		74.8%	74.8%		
31.25 - 26.25	12728	2754	15483	58.17	12.00	70.17	60.0%		76.0%	76.0%		
26.25 - 21.25	13554	2868	16421	59.40	12.00	71.40	61.3%		77.1%	77.1%		
21.25 - 16.25	14414	2984	17398	60.63	12.00	72.63	62.6%		78.1%	78.1%		
16.25 - 11.25	15310	3102	18412	61.86	12.00	73.86	63.8%		79.0%	79.0%		
11.25 - 10	15540	3132	18671	62.17	12.00	74.17	64.1%		79.2%	79.2%		
10 - 9.75	15656	784	16440	62.23	8.00	70.23	78.7%	71.3%		71.3%		
9.75 - 7.25	16124	800	16924	62.84	8.00	70.84	79.2%	71.7%		71.7%		
7.25 - 7	16135	2425	18560	62.91	8.00	70.91	70.9%		79.9%			
7 - 2	17100	2519	19619	64.14	8.00	72.14	72.1%		80.7%			
2 - 0	17496	2557	20053	64.63	8.00	72.63	72.5%		81.0%			

Note: Section capacity checked using 5 degree increments.

*Rating per TIA-222-H Section 15.5.

Monopole Base Plate Connection

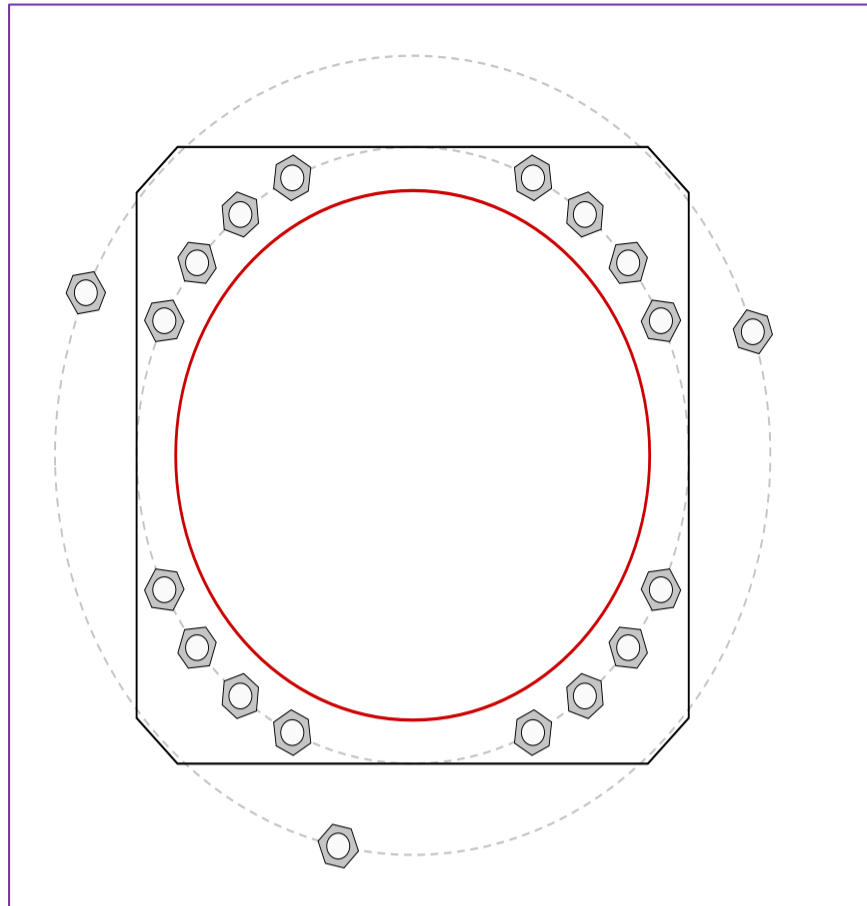


Site Info	
BU #	876315
Site Name	IE CC, INC. TOWER(SSU
Order #	654620,Rev# 0

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

Applied Loads	
Moment (kip-ft)	3468.61
Axial Force (kips)	56.46
Shear Force (kips)	30.39

*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results											
Anchor Rod Data <hr/> GROUP 1: (16) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 54" BC <i>Anchor Spacing: 6 in</i> GROUP 2: (3) 2-1/4" ϕ bolts (A193 Gr. B7 N; $F_y=105$ ksi, $F_u=125$ ksi) on 70" BC <i>pos. (deg): 18, 156, 258</i>	Anchor Rod Summary <i>(units of kips, kip-in)</i> <hr/> GROUP 1: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Pu_t = 151.46</td> <td style="width: 33%;">$\phi Pn_t = 243.75$</td> <td style="width: 33%;">Stress Rating</td> </tr> <tr> <td>Vu = 1.9</td> <td>$\phi Vn = 149.1$</td> <td>59.2%</td> </tr> <tr> <td>Mu = n/a</td> <td>$\phi Mn = n/a$</td> <td>Pass</td> </tr> </table>			Pu_t = 151.46	$\phi Pn_t = 243.75$	Stress Rating	Vu = 1.9	$\phi Vn = 149.1$	59.2%	Mu = n/a	$\phi Mn = n/a$	Pass
Pu_t = 151.46	$\phi Pn_t = 243.75$	Stress Rating										
Vu = 1.9	$\phi Vn = 149.1$	59.2%										
Mu = n/a	$\phi Mn = n/a$	Pass										
Base Plate Data <hr/> 54" W x 3" Plate (A572-60; $F_y=60$ ksi, $F_u=75$ ksi); Clip: 4 in	GROUP 2: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Pu_t = 193.85</td> <td style="width: 33%;">$\phi Pn_t = 304.69$</td> <td style="width: 33%;">Stress Rating</td> </tr> <tr> <td>Vu = 0</td> <td>$\phi Vn = 186.38$</td> <td>60.6%</td> </tr> <tr> <td>Mu = n/a</td> <td>$\phi Mn = n/a$</td> <td>Pass</td> </tr> </table>			Pu_t = 193.85	$\phi Pn_t = 304.69$	Stress Rating	Vu = 0	$\phi Vn = 186.38$	60.6%	Mu = n/a	$\phi Mn = n/a$	Pass
Pu_t = 193.85	$\phi Pn_t = 304.69$	Stress Rating										
Vu = 0	$\phi Vn = 186.38$	60.6%										
Mu = n/a	$\phi Mn = n/a$	Pass										
Stiffener Data <hr/> N/A	Base Plate Summary <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Max Stress (ksi):</td> <td style="width: 33%;">26.48</td> <td style="width: 33%;">(Flexural)</td> </tr> <tr> <td>Allowable Stress (ksi):</td> <td>54</td> <td></td> </tr> <tr> <td>Stress Rating:</td> <td>46.7%</td> <td>Pass</td> </tr> </table>			Max Stress (ksi):	26.48	(Flexural)	Allowable Stress (ksi):	54		Stress Rating:	46.7%	Pass
Max Stress (ksi):	26.48	(Flexural)										
Allowable Stress (ksi):	54											
Stress Rating:	46.7%	Pass										
Pole Data <hr/> 46.38" x 0.4375" 12-sided pole (A607-65; $F_y=65$ ksi, $F_u=80$ ksi)												

CCIplate

Elevation (ft) 0 (Base)

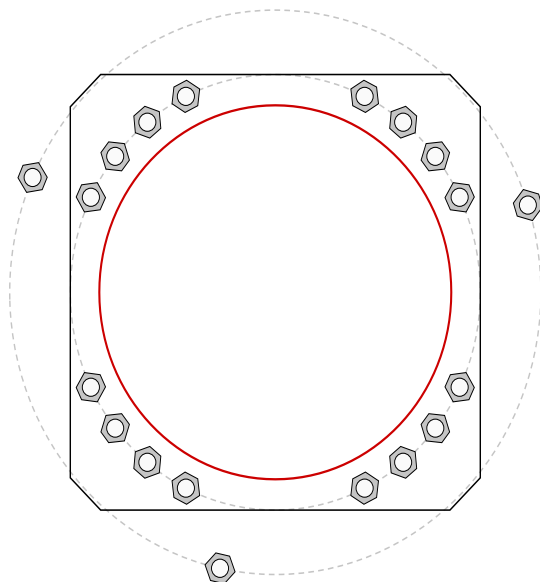
note: Bending interaction not considered when Grout Considered = "Yes"

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

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η :	I_{ar} (in):	Thread Type	Area Override, in ²	Tension Only
1	1	25.861889	2.25	A615-75	54	0.5	0	N-Included		No
2	1	38.62063	2.25	A615-75	54	0.5	0	N-Included		No
3	1	51.37937	2.25	A615-75	54	0.5	0	N-Included		No
4	1	64.138111	2.25	A615-75	54	0.5	0	N-Included		No
5	1	115.86189	2.25	A615-75	54	0.5	0	N-Included		No
6	1	128.62063	2.25	A615-75	54	0.5	0	N-Included		No
7	1	141.37937	2.25	A615-75	54	0.5	0	N-Included		No
8	1	154.13811	2.25	A615-75	54	0.5	0	N-Included		No
9	1	205.86189	2.25	A615-75	54	0.5	0	N-Included		No
10	1	218.62063	2.25	A615-75	54	0.5	0	N-Included		No
11	1	231.37937	2.25	A615-75	54	0.5	0	N-Included		No
12	1	244.13811	2.25	A615-75	54	0.5	0	N-Included		No
13	1	295.86189	2.25	A615-75	54	0.5	0	N-Included		No
14	1	308.62063	2.25	A615-75	54	0.5	0	N-Included		No
15	1	321.37937	2.25	A615-75	54	0.5	0	N-Included		No
16	1	334.13811	2.25	A615-75	54	0.5	0	N-Included		No
17	2	18	2.25	A193 Gr. B7	70	0.5	0	N-Included		No
18	2	156	2.25	A193 Gr. B7	70	0.5	0	N-Included		No
19	2	258	2.25	A193 Gr. B7	70	0.5	0	N-Included		No

Plot Graphic



PROJECT **81150.011.01.0001 - OAK LANE CC, INC. TOWER (SSUSA, CT**

SUBJECT **Anchor Rod Bracket Analysis**

DATE **07/22/23**

TIA-222 Rev.

H

v4.6.1

Apply TIA-222-H Section 15.5?

Yes



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

Analysis Criteria	
Design/Analysis	Analysis
Load Type	Current Load
Current load	193.85 kips
AR Capacity	375.7 kips

Tower Type	Monopole
------------	----------

Manufacturers Tower Prop.	
Pole Thickness	0.4375 in
Pole Grade	A572-65
Fy	65 ksi
Fu	80 ksi
Base Plate Gr.	A572-60
Fy	60 ksi
Fu	75 ksi

Post-Installed Adhesive AR Mod.	
ARB Type	Welded
Size	2.25 in
Grade	A193 Gr B7
Fy	105 ksi
Fu	125 ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	37.7%	-
Tube Compression	56.6%	-
Gusset Shear	14.0%	-
Gusset Flexure	N/A	-
Welds	Gusset to Tower and BP	27.0%
	Gusset to Tube	14.1%
	Geometry	N/A
Tower Punching	18.7%	-
Tube Punching	8.2%	-
Utilization		56.6%

Bracket Properties		
Gusset	Pipe/Tube	Weld - Gusset to Pipe/Tube
Thickness	1.25 in	FEXX
Width at Tube	9.75 in	Total Length
Height at Pole	48 in	Length above Gusset
Height at Tube	36 in	Length below Gusset
Grade	A572-50	Grade
Fy	50 ksi	Fy
Fu	65 ksi	Fu
Weld - Gusset to Tower		Weld - Gusset to Base Plate
FEXX	70 ksi	FEXX
Weld Type	Double Fillet	Weld Type
Fillet Size	3/8 in	Fillet Size
		Bevel Depth
		Gap
		Notch (horiz)
		Notch (vert)
		Pipe/Tube Welded to Base/Footpad?

Pier and Pad Foundation



BU #: 876315
Site Name: OAK LANE CC,
App. Number: 654620,Rev# 0

TIA-222 Revision: H
Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	56	kips
Base Shear, Vu_{comp} :	30	kips
Moment, M_u :	3469	ft-kips
Tower Height, H :	150	ft
BP Dist. Above Fdn, bp_{dist} :	4.625	in
Bolt Circle / Bearing Plate Width, BC :	54	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	134.26	30.00	21.3%	Pass
<i>Bearing Pressure (ksf)</i>	18.00	3.91	21.7%	Pass
<i>Overturning (kip*ft)</i>	4902.38	3630.56	74.1%	Pass
<i>Pad Flexure (kip*ft)</i>	8967.19	1929.98	20.5%	Pass
<i>Pad Shear - 1-way (kips)</i>	1363.20	230.05	16.1%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.002	1.3%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	10725.59	0.00	0.0%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	20.5%
Soil Rating*:	74.1%

Pad Properties		
Depth, D :	4.5	ft
Pad Width, W_1 :	25	ft
Pad Thickness, T :	5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	37	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	100	pcf
Ultimate Gross Bearing, Q_{ult} :	24.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :		
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, gw :	3	ft

<--Toggle between Gross and Net

www.hilti.com

Company:	B+T Grp	Page:	1
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

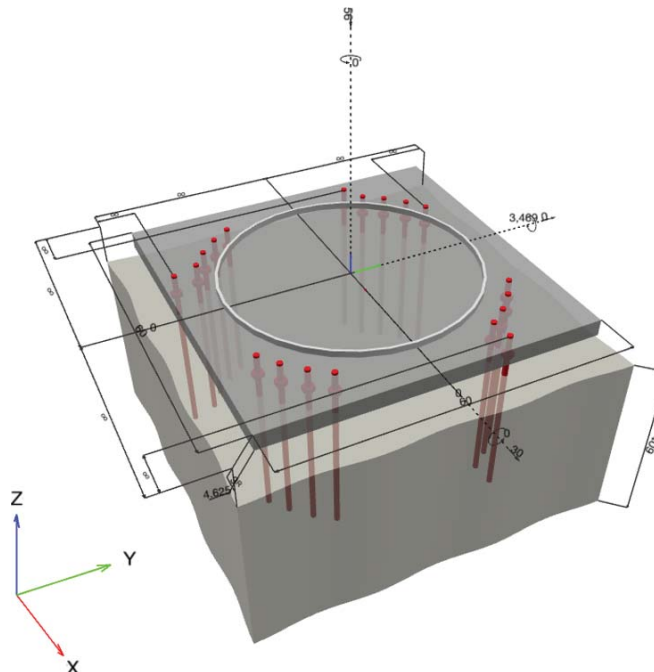
Specifier's comments:

1 Input data

Anchor type and diameter:	2.25in AR	
Item number:	not available	
Effective embedment depth:	$h_{ef} = 80 \text{ in}$	
Material:	ASTM F 1554	
Evaluation Service Report:	Hilti Technical Data	
Issued Valid:	- -	
Proof:	Design Method ACI 318-14 / CIP	
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 1.00; $e_b = 4.625 \text{ in.}$; $t = 3.000 \text{ in.}$	
Anchor plate ^R :	$l_x \times l_y \times t = 60.000 \text{ in.} \times 60.000 \text{ in.} \times 3.000 \text{ in.}$; (Recommended plate thickness: not calculated)	
Profile:	Steel pipe, ; $(L \times W \times T) = 46.380 \text{ in.} \times 46.380 \text{ in.} \times 0.500 \text{ in.}$	
Base material:	cracked concrete, 3000, $f'_c = 3,000 \text{ psi}$; $h = 60.000 \text{ in.}$	
Reinforcement:	tension: condition B, shear: condition B; edge reinforcement: none or < No. 4 bar	

^R - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [kip, ft.kip]



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Company:	B+T Grp	Page:	2
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

1.1 Design results

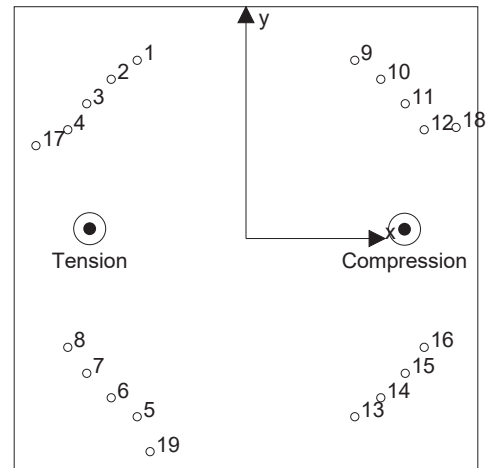
Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = -56.000; V _x = 30.000; V _y = 0.000; M _x = 0.00000; M _y = 3,469.00000; M _z = 0.00000;	no	∞

2 Load case/Resulting anchor forces

Anchor reactions [kip]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	79.826	1.582	1.582	0.002
2	97.872	1.582	1.582	0.002
3	114.571	1.581	1.581	0.003
4	127.216	1.581	1.581	0.003
5	64.759	1.576	1.576	0.002
6	84.407	1.576	1.576	0.002
7	103.172	1.577	1.577	0.003
8	118.019	1.577	1.577	0.003
9	-77.932	1.582	1.582	-0.002
10	-97.580	1.582	1.582	-0.002
11	-116.345	1.581	1.581	-0.003
12	-131.192	1.581	1.581	-0.003
13	-93.001	1.576	1.576	-0.002
14	-111.045	1.576	1.576	-0.002
15	-127.742	1.577	1.577	-0.003
16	-140.391	1.577	1.577	-0.003
17	149.643	1.581	1.581	0.003
18	-154.192	1.581	1.581	-0.004
19	53.934	1.575	1.575	0.002



max. concrete compressive strain: - [%]
 max. concrete compressive stress: - [psi]
 resulting tension force in (x/y)=(-20.229/1.272): 993.419 [kip]
 resulting compression force in (x/y)=(20.518/1.205): 1,049.419 [kip]

Anchor forces are calculated based on the assumption of a rigid anchor plate.



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Company:	B+T Grp	Page:	3
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Rev H
Steel Strength*	-154.192	304.69	50.6%	48.20%
Concrete Breakout Failure**	993.419	1162.215	85.48%	81.41%

3.1 Steel Strength

$$N_{sa} = A_{se,N} f_{uta} \quad \text{ACI 318-14 Eq. (17.4.1.2)}$$

$$\phi N_{sa} \geq N_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

Variables

$A_{se,N}$ [in. ²]	f_{uta} [psi]
3.25	125000

Calculations

N_{sa} [kip]
406.25

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
406.25	0.750	304.69	-154.192

Governing Rating

The steel proof was done for the highest absolute force per anchor - in this case compression loading. Please be aware that buckling should be verified separately

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Company:	B+T Grp	Page:	4
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

3.3 Concrete Breakout Failure

$$N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \quad \text{ACI 318-14 Eq. (17.4.2.1b)}$$

$$\phi N_{cbg} \geq N_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

$$A_{Nc} \text{ see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)}$$

$$A_{Nc0} = 9 h_{ef}^2 \quad \text{ACI 318-14 Eq. (17.4.2.1c)}$$

$$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2 e_N}{3 h_{ef}}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.4)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.5b)}$$

$$\psi_{cp,N} = \text{MAX} \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.7b)}$$

$$N_b = 16 \lambda_a \sqrt{f'_c} h_{ef}^{5/3} \quad \text{ACI 318-14 Eq. (17.4.2.2b)}$$

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
80		2.829	∞	1.000
c_{ac} [in.]	k_c	λ_a	f'_c [psi]	
-	16	1.000	3,000	

Calculations

A_{Nc} [in. ²]	A_{Nc0} [in. ²]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
86436	57600	1.8	0.85	1.000	1.000	1301.659

Results

N_{cbg} [kip]	$\phi_{concrete}$	ϕN_{cbg} [kip]	N_{ua} [kip]
1660.307	0.700	1162.215	993.419


***Please refer excel sheet for calculation**

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Company:	B+T Grp	Page:	1
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

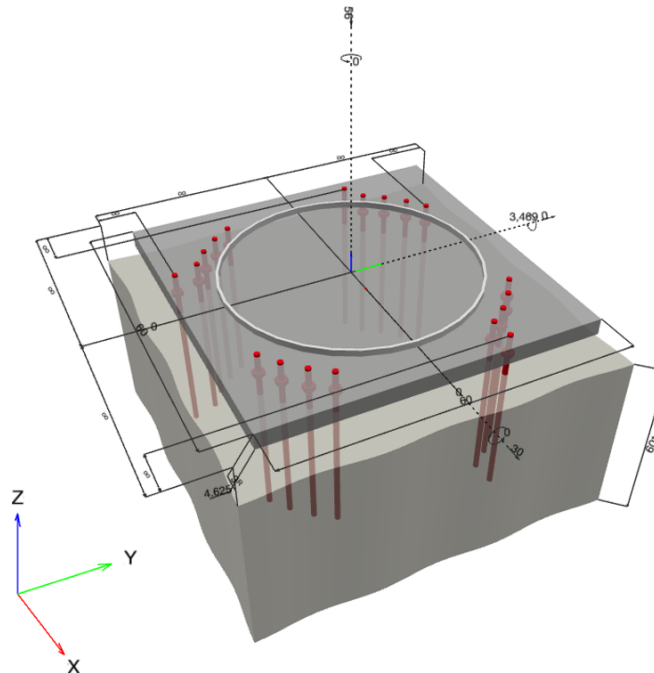
Specifier's comments:

1 Input data

Anchor type and diameter:	Heavy Hex Head ASTM F 1554 GR. 105 1	
Item number:	not available	
Effective embedment depth:	$h_{ef} = 25.000$ in.	
Material:	ASTM F 1554	
Evaluation Service Report:	Hilti Technical Data	
Issued Valid:	- -	
Proof:	Design Method ACI 318-14 / CIP	
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 1.00; $e_b = 4.625$ in.; $t = 3.000$ in.	
Anchor plate ^R :	$l_x \times l_y \times t = 60.000$ in. x 60.000 in. x 3.000 in.; (Recommended plate thickness: not calculated)	
Profile:	Steel pipe, ; (L x W x T) = 46.380 in. x 46.380 in. x 0.500 in.	
Base material:	cracked concrete, 3000, $f'_c = 3,000$ psi; $h = 60.000$ in.	
Reinforcement:	tension: condition B, shear: condition B; edge reinforcement: none or < No. 4 bar	

^R - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [kip, ft.kip]





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Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

1.1 Design results

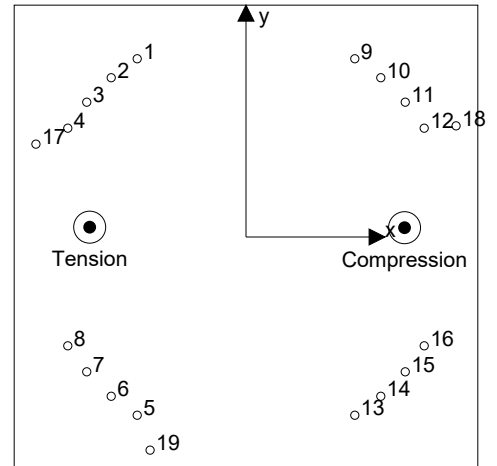
Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = -56.000; V _x = 30.000; V _y = 0.000; M _x = 0.00000; M _y = 3,469.00000; M _z = 0.00000;	no	∞

2 Load case/Resulting anchor forces

Anchor reactions [kip]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	79.826	1.582	1.582	0.002
2	97.872	1.582	1.582	0.002
3	114.571	1.581	1.581	0.003
4	127.216	1.581	1.581	0.003
5	64.759	1.576	1.576	0.002
6	84.407	1.576	1.576	0.002
7	103.172	1.577	1.577	0.003
8	118.019	1.577	1.577	0.003
9	-77.932	1.582	1.582	-0.002
10	-97.580	1.582	1.582	-0.002
11	-116.345	1.581	1.581	-0.003
12	-131.192	1.581	1.581	-0.003
13	-93.001	1.576	1.576	-0.002
14	-111.045	1.576	1.576	-0.002
15	-127.742	1.577	1.577	-0.003
16	-140.391	1.577	1.577	-0.003
17	149.643	1.581	1.581	0.003
18	-154.192	1.581	1.581	-0.004
19	53.934	1.575	1.575	0.002



max. concrete compressive strain: - [%]
 max. concrete compressive stress: - [psi]
 resulting tension force in (x/y)=(-20.229/1.272): 993.419 [kip]
 resulting compression force in (x/y)=(20.518/1.205): 1,049.419 [kip]

Anchor forces are calculated based on the assumption of a rigid anchor plate.



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Company:	B+T Grp	Page:	3
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	-154.192	56.812	272	not recommended
Pullout Strength*	149.643	25.217	594	not recommended
Concrete Breakout Failure**	993.419	227.541	437	not recommended
Concrete Side-Face Blowout, direction **	N/A	N/A	N/A	N/A

* highest loaded anchor **anchor group (anchors in tension)

3.1 Steel Strength

$$N_{sa} = A_{se,N} f_{uta} \quad \text{ACI 318-14 Eq. (17.4.1.2)}$$

$$\phi N_{sa} \geq N_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

Variables

$A_{se,N}$ [in. ²]	f_{uta} [psi]
0.61	125,001

Calculations

N_{sa} [kip]
75.750

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
75.750	0.750	56.812	-154.192

The steel proof was done for the highest absolute force per anchor - in this case compression loading. Please be aware that buckling should be verified separately

3.2 Pullout Strength

$$N_{pN} = \psi_{c,p} N_p \quad \text{ACI 318-14 Eq. (17.4.3.1)}$$

$$N_p = 8 A_{brg} f'_c \quad \text{ACI 318-14 Eq. (17.4.3.4)}$$

$$\phi N_{pN} \geq N_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

Variables

$\psi_{c,p}$	A_{brg} [in. ²]	λ_a	f'_c [psi]
1.000	1.50	1.000	3,000

Calculations

N_p [kip]
36.024

Results

N_{pn} [kip]	$\phi_{concrete}$	ϕN_{pn} [kip]	N_{ua} [kip]
36.024	0.700	25.217	149.643

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Company:	B+T Grp	Page:	4
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

3.3 Concrete Breakout Failure

$$N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \quad \text{ACI 318-14 Eq. (17.4.2.1b)}$$

$$\phi N_{cbg} \geq N_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

$$A_{Nc} \text{ see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)}$$

$$A_{Nc0} = 9 h_{ef}^2 \quad \text{ACI 318-14 Eq. (17.4.2.1c)}$$

$$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2 e_N}{3 h_{ef}}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.4)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.5b)}$$

$$\psi_{cp,N} = \text{MAX} \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.7b)}$$

$$N_b = 16 \lambda_a \sqrt{f'_c} h_{ef}^{5/3} \quad \text{ACI 318-14 Eq. (17.4.2.2b)}$$

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
25.000	1.231	2.829	∞	1.000
c_{ac} [in.]	k_c	λ_a	f'_c [psij]	
-	16	1.000	3,000	

Calculations

A_{Nc} [in. ²]	A_{Nc0} [in. ²]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
10,842.01	5,625.00	0.968	0.930	1.000	1.000	187.318

Results

N_{cbg} [kip]	$\phi_{concrete}$	ϕN_{cbg} [kip]	N_{ua} [kip]
325.059	0.700	227.541	993.419



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Company:	B+T Grp	Page:	5
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_v = V_{ua}/\phi V_n$	Status
Steel Strength*	1.582	29.542	6	OK
Steel failure (with lever arm)*	1.581	0.000	∞	not recommended
Pryout Strength**	30.000	718.510	5	OK
Concrete edge failure in direction **	N/A	N/A	N/A	N/A

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

$$V_{sa} = 0.6 A_{se,V} f_{uta} \quad \text{ACI 318-14 Eq. (17.5.1.2b)}$$

$$\phi V_{steel} \geq V_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

Variables

$A_{se,V}$ [in. ²]	f_{uta} [psi]
0.61	125,001

Calculations

V_{sa} [kip]
45.450

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
45.450	0.650	29.542	1.582



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Company:	B+T Grp	Page:	6
Address:	1717 S. Boulder, Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

4.2 Steel failure (with lever arm)

V_s^M	$= \frac{\alpha_M \cdot M_s}{L_b}$	bending equation for stand-off
M_s	$= M_s^0 \left(1 - \frac{N_{ua}}{\phi N_{sa}}\right)$	resultant flexural resistance of anchor
M_s^0	$= (1.2) (S) (f_{u,min})$	characteristic flexural resistance of anchor
$\left(1 - \frac{N_{ua}}{\phi N_{sa}}\right)$		reduction for tensile force acting simultaneously with a shear force on the anchor
S	$= \frac{\pi(d)^3}{32}$	elastic section modulus of anchor bolt at concrete surface
L_b	$= z + (n)(d_0)$	internal lever arm adjusted for spalling of the surface concrete
ϕV_s^M	$\geq V_{ua}$	ACI 318-14 Table 17.3.1.1

Variables

α_M	$f_{u,min}$ [psi]	N_{ua} [kip]	ϕN_{sa} [kip]	z [in.]	n	d_0 [in.]
1.00	125,001	-154.192	56.812	6.125	0.500	1.000

Calculations

M_s^0 [ft.kip]	$\left(1 - \frac{N_{ua}}{\phi N_{sa}}\right)$	M_s [ft.kip]	L_b [in.]
0.79343	-1.714	0.00000	6.625

Results

V_s^M [kip]	ϕ_{steel}	ϕV_s^M [kip]	V_{ua} [kip]
0.000	0.650	0.000	1.581



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Company:	B+T Grp	Page:	7
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

4.3 Pryout Strength

$$V_{cp,g} = k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right] \quad \text{ACI 318-14 Eq. (17.5.3.1b)}$$

$$\phi V_{cp,g} \geq V_{ua} \quad \text{ACI 318-14 Table 17.3.1.1}$$

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$$A_{Nc0} = 9 h_{ef}^2 \quad \text{ACI 318-14 Eq. (17.4.2.1c)}$$

$$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2 e_N}{3 h_{ef}}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.4)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.5b)}$$

$$\psi_{cp,N} = \text{MAX} \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0 \quad \text{ACI 318-14 Eq. (17.4.2.7b)}$$

$$N_b = 16 \lambda_a \sqrt{f'_c} h_{ef}^{5/3} \quad \text{ACI 318-14 Eq. (17.4.2.2b)}$$

Variables

k_{cp}	h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]
2	25.000	0.000	0.062	∞
$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
1.000	∞	16	1.000	3,000

Calculations

A_{Nc} [in. ²]	A_{Nc0} [in. ²]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
15,437.14	5,625.00	1.000	0.998	1.000	1.000	187.318

Results

$V_{cp,g}$ [kip]	$\phi_{concrete}$	$\phi V_{cp,g}$ [kip]	V_{ua} [kip]
1,026.443	0.700	718.510	30.000

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
5.934	∞	1.000	∞	not recommended

$$\beta_{NV} = (\beta_N + \beta_V) / 1.2 \leq 1$$



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Company:	B+T Grp	Page:	8
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
Phone Fax:	918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2021, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- ACI 318 does not specifically address anchor bending when a stand-off condition exists. PROFIS Engineering calculates a shear load corresponding to anchor bending when stand-off exists and includes the results as a shear Design Strength!
- For additional information about ACI 318 strength design provisions, please go to <https://submittals.us.hilti.com/PROFISAnchorDesignGuide/>
- Attention! In case of compressive anchor forces a buckling check as well as the proof of the local load transfer into and within the base material (incl. punching) has to be done separately.

Fastening does not meet the design criteria!



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 Address: 1717 S. Boulder,Suite 300
 Phone | Fax: | 918-587-4630
 Design: Concrete Breakout
 Fastening point:

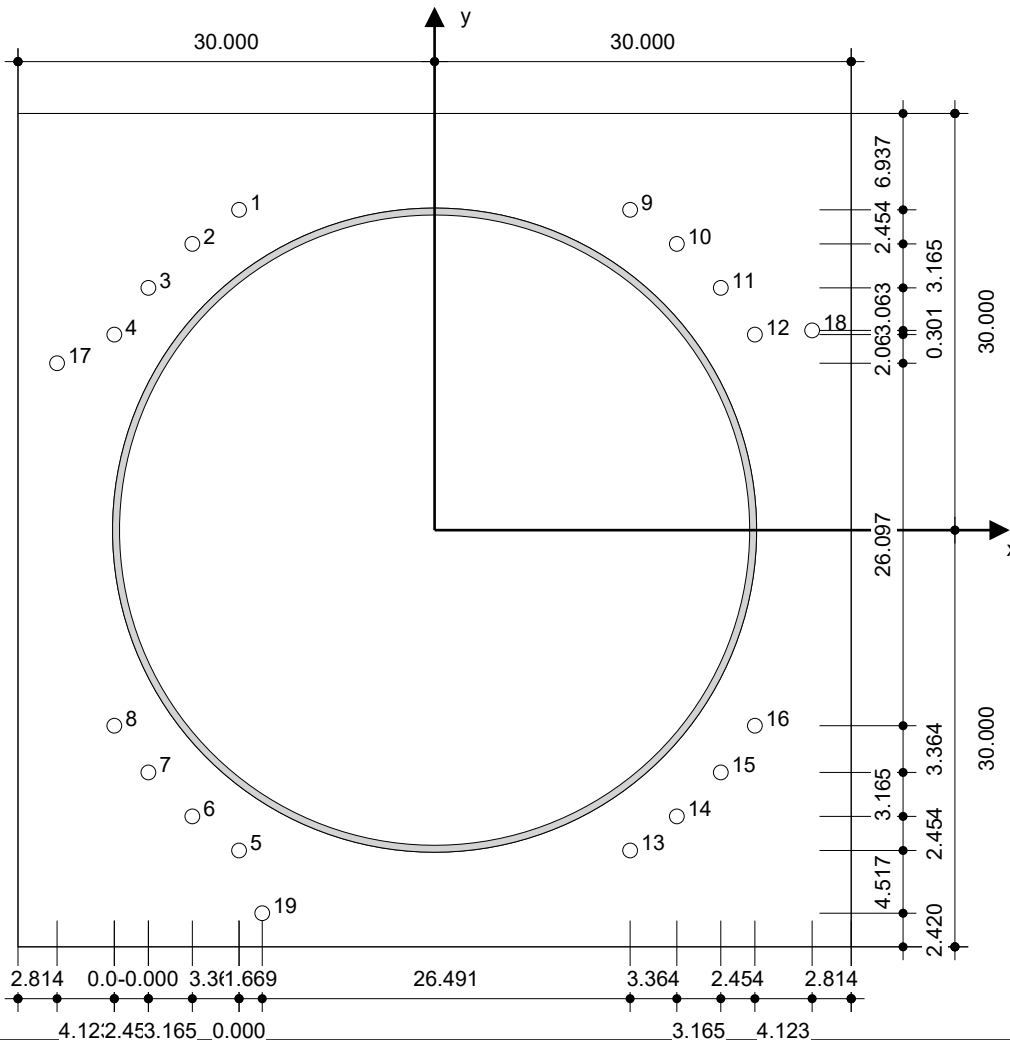
Page: 9
 Specifier: Pavithra
 E-Mail:
 Date: 7/22/2023

7 Installation data

Profile: Steel pipe, ; (L x W x T) = 46.380 in. x 46.380 in. x 0.500 in.
 Hole diameter in the fixture: $d_f = 1.062$ in.
 Plate thickness (input): 3.000 in.
 Recommended plate thickness: not calculated

Anchor type and diameter: Heavy Hex Head ASTM F 1554
 GR. 105 1
 Item number: not available
 Maximum installation torque: -
 Hole diameter in the base material: - in.
 Hole depth in the base material: 25.000 in.
 Minimum thickness of the base material: 26.172 in.

Hilti Heavy Hex Head headed stud anchor with 25 in embedment, 1, Steel galvanized, installation per instruction for use



Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Hilti PROFIS Engineering 3.0.86

www.hilti.com

Company: B+T Grp
Address: 1717 S. Boulder,Suite 300
Phone | Fax: | 918-587-4630
Design: Concrete Breakout
Fastening point:

Page: 10
Specifier: Pavithra
E-Mail:
Date: 7/22/2023

Coordinates Anchor [in.]

Anchor	x	y	C _{-x}	C _{+x}	C _{-y}	C _{+y}	Anchor	x	y	C _{-x}	C _{+x}	C _{-y}	C _{+y}
1	-14.080	23.063	-	-	-	-	11	20.609	17.444	-	-	-	-
2	-17.444	20.609	-	-	-	-	12	23.063	14.080	-	-	-	-
3	-20.609	17.444	-	-	-	-	13	14.080	-23.063	-	-	-	-
4	-23.062	14.080	-	-	-	-	14	17.444	-20.609	-	-	-	-
5	-14.080	-23.063	-	-	-	-	15	20.609	-17.444	-	-	-	-
6	-17.444	-20.609	-	-	-	-	16	23.063	-14.080	-	-	-	-
7	-20.609	-17.444	-	-	-	-	17	-27.186	12.017	-	-	-	-
8	-23.063	-14.080	-	-	-	-	18	27.186	14.381	-	-	-	-
9	14.080	23.063	-	-	-	-	19	-12.411	-27.580	-	-	-	-
10	17.444	20.609	-	-	-	-							



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Company:	B+T Grp	Page:	11
Address:	1717 S. Boulder,Suite 300	Specifier:	Pavithra
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Design:	Concrete Breakout	Date:	7/22/2023
Fastening point:			

8 Remarks; Your Cooperation Duties

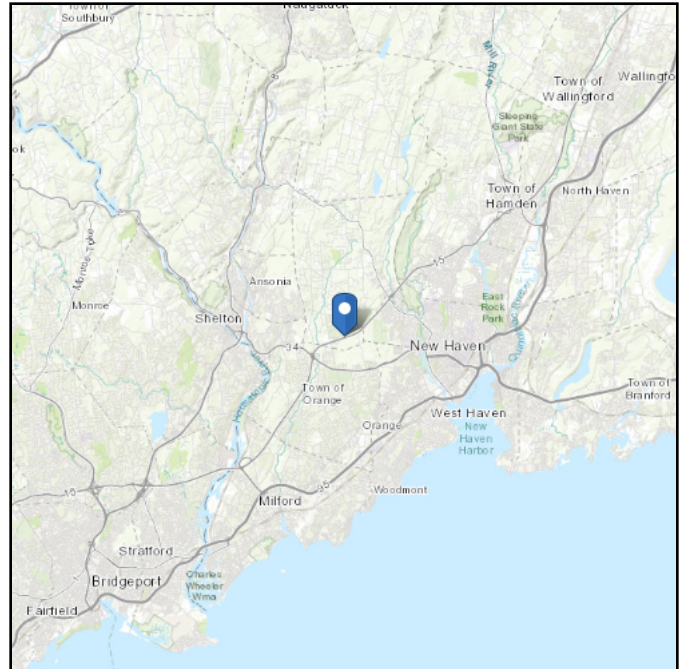
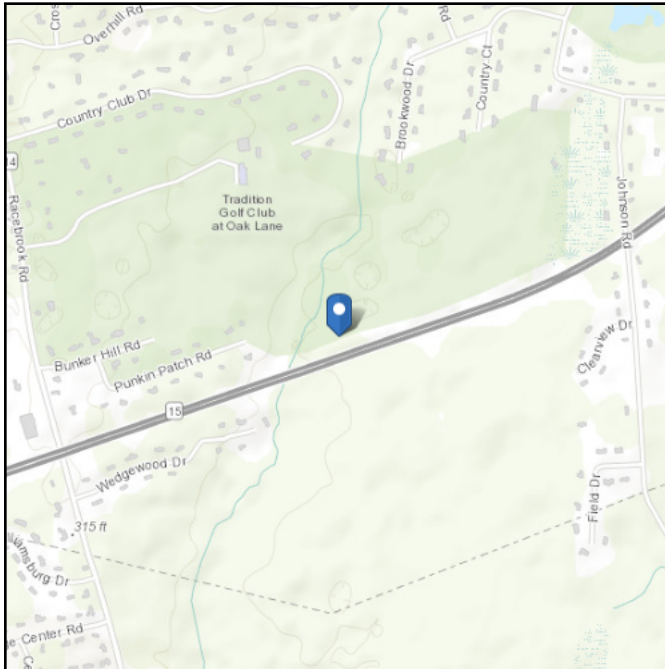
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ASCE 7 Hazards Report

Address:
No Address at This Location

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

Latitude: 41.31675
Longitude: -73.011611
Elevation: 240.85633856042097 ft (NAVD 88)



Wind

Results:

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

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

Date Accessed: Fri Jul 21 2023

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).

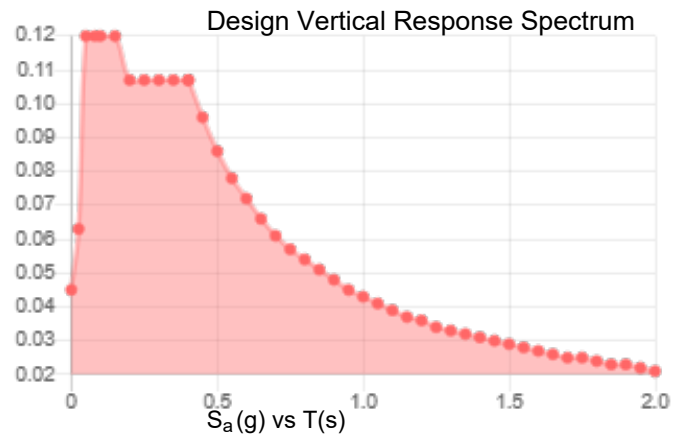
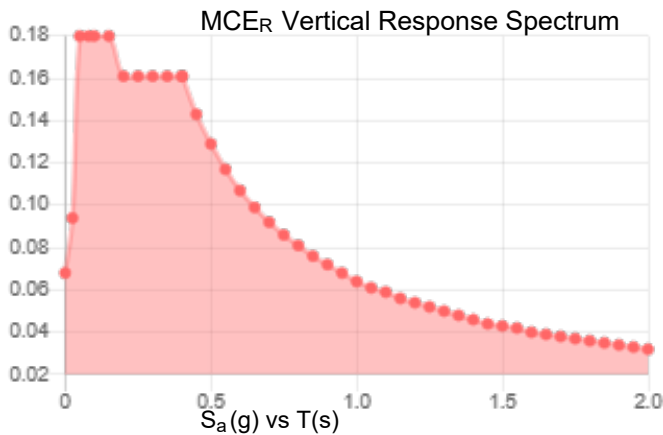
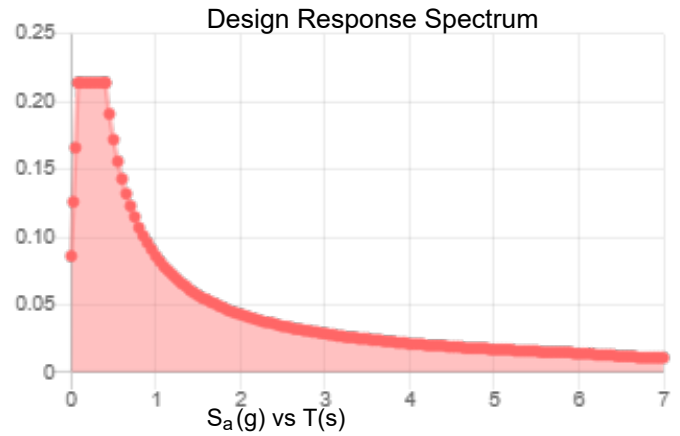
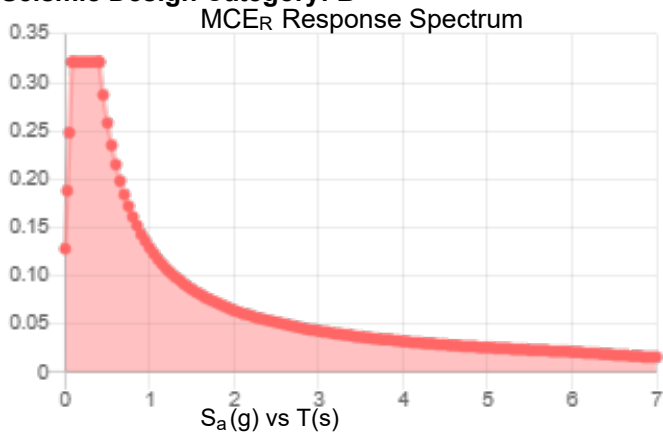
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

S_s :	0.201	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.177
S_{MS} :	0.321	F_{PGA} :	1.575
S_{M1} :	0.129	I_e :	1
S_{DS} :	0.214	C_v :	0.701

Seismic Design Category: B



Data Accessed: Fri Jul 21 2023

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 Jul 21 2023

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.

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