

MJ Umali, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (978) 568-7906
MUmali@centerlinecommunications.com

August 31, 2021

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

**RE: Notice of Exempt Modification // Site: KILLINGLY CT (ATC: 88011)
1375 North Road, Killingly, CT 06241
N 41.8716 // W 72.8216**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 116-ft level on the existing 287.5-foot Self Supported tower, located at 1375 North Road, Killingly, CT. The tower is owned by American Tower. The property is also owned by John C Matulis, Jr. The Council approved Verizon Wireless use of the existing tower in 2002. Verizon Wireless now intends to install 3 new antennas for the LTE (3700 MHz) replacements for its 5G upgrade. Altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

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 Jason Anderson, Chairman of Killingly, its Director of Planning & Development, Ann-Marie L. Aubrey, and American Tower, the tower owner and the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated August 10, 2021, by Power of Design, a structural analysis dated June 15, 2021, by A.T. Engineering, PLLC., and a structural mount analysis by Maser Consulting Connecticut date July 8, 2021, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

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

2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A.T. Engineering, PLLC, dated June 15, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated June 30, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated August 10, 2021.

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

Sincerely,

MJ Umali

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Attachments

cc: Jason Anderson, Chairman of Killingly – Chief Elected Official
Ann-Marie L. Aubrey, Director of Planning & Development - as P&Z official
American Tower Corporation - as tower owner and ground owner

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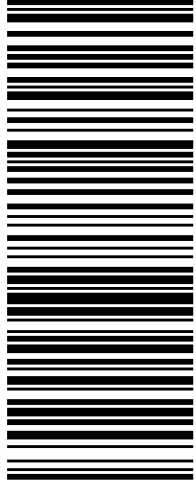

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: right;">1 LBS</p> <p>MIJMAIL 9785687906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: JASON ANDERSON KILLINGLY TOWN HALL 172 MAIN STREET KILLINGLY CT 06239-2822</p>	<p style="font-size: 2em;">CT 063 0-01</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0242 0654</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: 88011 Reference # 2: EAST KILLINGLY NORTH <small>CS22.07.18 WNTN50.35.0A 08/2021*</small></p> 
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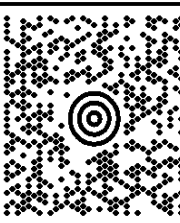
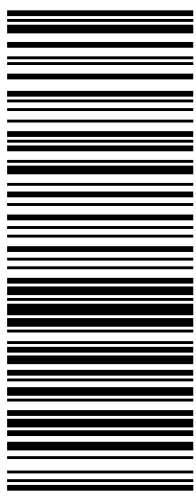

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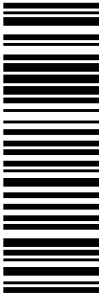
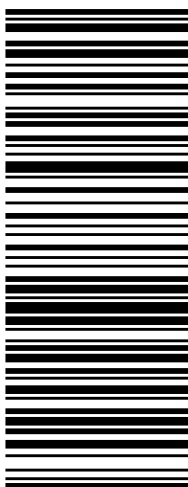

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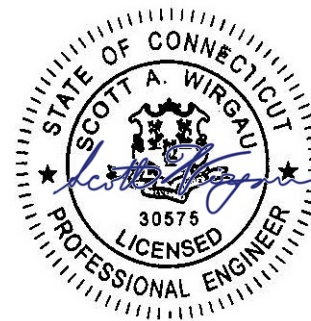
<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">5 LBS</p> <p>SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p> <p>MJ UMALT 9785687906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p>	<p style="font-size: 2em; font-weight: bold;">MA 018 9-04</p> 	<p style="font-size: 1.5em; font-weight: bold;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 3888 3267</p> 	<p style="text-align: center;">BILLING: P/P</p>  <p style="font-size: 0.8em;">CS 22.0.18. WNTNV50 33.0A 08/2021*</p>
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AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 287.5 ft Self Supported Tower
ATC Site Name : EAST KILLINGLY NORTH, CT
ATC Asset Number : 88011
Engineering Number : 13669420_C3_01
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : KILLINGLY CT
Carrier Site Number : 467465
Site Location : 1375 North Road
Killingly, CT 06241-1404
41.871600,-71.821600
County : Windham
Date : June 15, 2021
Max Usage : 89%
Result : Pass



Prepared By:
Adam Pittman
Structural Engineer II

Reviewed By:

Adam Pittman

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 287.5 ft self supported tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	CSEI Analysis, ATC Eng. #26726321, dated September 13, 2006
Foundation Drawing	CSEI Analysis, ATC Eng. #26726321, dated September 13, 2006
Geotechnical Report	FDH Velocitel Project #17PXNW1600, dated February 27, 2017
Modifications	ATC Project #45432633, dated July 9, 2010 ATC Project #OAA686695_C6_04, dated November 28, 2016

Analysis

The tower was analyzed using Power Lines systems INC., tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	122 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
306.0	3	Alcatel-Lucent 1900 MHz 4X45 RRH	Side Arm	(4) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax	SPRINT NEXTEL
	3	Commscope NNVV-65B-R4			
	3	RFS APXVTM14-ALU-I20			
	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	6	Alcatel-Lucent RRH2x50-08			
290.0	1	Generic 5" x 3" x 2" Cavity Filter	Side Arm	(1) 7/8" Coax	SIGFOX S.A.
	1	Generic Low Noise Amplifier			
	1	Procom CXL 900-3LW			
277.0	4	RFS APXVAARR24_43-U-NA20	Sector Frame	(4) 1 1/4" Hybriflex Cable (4) 1 5/8" Hybriflex (1) 1/2" Coax	T-MOBILE
	4	Ericsson AIR32 B66Aa/B2a			
	4	Ericsson Air6449 B41			
	1	Commscope SHP2-13			
	4	Ericsson RRUS 11 B4			
	4	Ericsson RRUS 11 B12			
	4	Ericsson RRUS 4415 B25			
	4	Ericsson Radio 4478 B71			
	4	Commscope CBC1923Q-43			
	4	Commscope CBC6AE7LQ-DS-43			
266.0	4	Commscope JAHH-45B-R3B	Sector Frame	(1) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax	VERIZON WIRELESS
	2	Commscope JAHH-65B-R3B			
	6	Amphenol Antel LPA-80063-4CF-EDIN-X			
	1	Raycap RC3DC-3315-PF-48			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung B5/B13 RRH-BR04C			
	3	Commscope CBC78T-DS-43-2X			
246.0	3	Powerwave Allgon TT19-08BP111-001	Sector Frame	(2) 0.39" (10mm) Fiber Trunk (4) 0.82" (20.8mm) 8 AWG 6 (6) 2 1/4" Coax (2) 2" conduit	AT&T MOBILITY
	2	Raycap DC6-48-60-18-8F			
	3	Ericsson RRUS 8843 B2, B66A			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 4449 B5, B12			
	6	Powerwave Allgon LGP21901			
	3	CCI DMP65R-BU8D			
	3	CCI OPA65R-BU8D			
	3	Powerwave Allgon P65-16-XLH-RR			
210.5	1	Andrew DB264	Leg/Flush	(1) 7/8" Coax	US DEPT OF JUSTICE
50.0	1	MicroPulse GPS-QBW-26N	Leg/Flush	(1) 1/2" Coax	VERIZON WIRELESS

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
No loading was considered as removed as part of this analysis.					



Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
266.0	3	Samsung MT6407-77A	Sector Frame	-	VERIZON WIRELESS

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	69%	Pass
Diagonals	89%	Pass
Trussed Diagonals	67%	Pass
Horizontals	59%	Pass
Trussed Horizontals	68%	Pass
Anchor Bolts	44%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	293.4	63%
Axial (Kips)	411.5	8%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

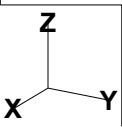
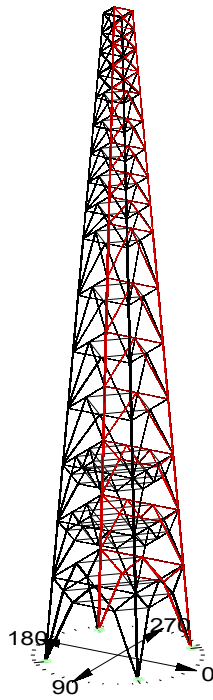
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Leg S9	L 6" x 6" x 0.75"	SAR	6X6X0.75	36.0	37.48	Comp	23.82	L 9XY	65.131	W 45	273.456	0.000	0.000	0.000	12.549	0.0000	0
Leg S10	L 6" x 6" x 0.5625"	SAR	6X6X0.56	36.0	40.80	Comp	24.52	L 10XY	51.088	W 45	208.332	0.000	0.000	0.000	12.549	0.0000	0
Leg S11	L 6" x 6" x 0.5625"	SAR	6X6X0.56	36.0	32.59	Comp	17.81	L 11XY	37.108	W 45	208.332	0.000	0.000	0.000	12.549	0.0000	0
Leg S12	L 6" x 6" x 0.4375"	SAR	6X6X0.44	36.0	30.68	Comp	14.22	L 12XY	23.317	W 45	163.944	0.000	0.000	0.000	12.549	0.0000	0
Leg S13	L 5" x 5" x 0.4375"	SAR	5X5X0.44	36.0	29.32	Comp	13.14	L 13XY	17.792	W 45	135.432	0.000	0.000	0.000	10.207	0.0000	0
Leg S14	L 5" x 5" x 0.4375"	SAR	5X5X0.44	36.0	19.99	Comp	5.98	L 14XY	7.957	W 45	135.432	0.000	0.000	0.000	10.207	0.0000	0
Leg S15	L 5" x 5" x 0.3125"	SAR	5X5X0.31	36.0	13.33	Comp	2.03	L 15XY	1.991	W 45	98.172	0.000	0.000	0.000	8.616	0.0000	0
Leg S16	L 5" x 5" x 0.3125"	SAR	5X5X0.31	36.0	5.83	Comp	0.00	L 16Y	0.000		98.172	0.000	0.000	0.000	8.616	0.0000	0
Diag S1	B/B L5"x5"x0.3125"	DAE	5X5X0.31	36.0	31.01	Comp	23.93	D 2P	46.902	W -90	195.020	0.000	0.000	0.000	30.789	0.0000	0
Diag S2	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	63.16	Comp	37.39	D 4P	34.888	W -90	93.312	0.000	0.000	0.000	20.603	0.0000	0
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	64.18	Comp	36.85	D 6P	34.385	W -90	93.312	0.000	0.000	0.000	20.250	0.0000	0
Diag S4	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	69.33	Comp	29.12	D 7P	24.817	W -90	85.212	0.000	0.000	0.000	30.271	0.0000	0
Diag S5	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	66.53	Comp	29.21	D 9P	24.892	W -90	85.212	0.000	0.000	0.000	29.422	0.0000	0
Diag S6	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	68.30	Comp	28.53	D 11P	24.310	W -90	85.212	0.000	0.000	0.000	28.633	0.0000	0
Diag S7	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	89.44	Comp	28.51	D 13P	24.295	W -90	85.212	0.000	0.000	0.000	27.910	0.0000	0
Diag S8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	59.74	Comp	18.30	D 15P	14.114	W -90	77.112	0.000	0.000	0.000	16.504	0.0000	0
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	52.57	Comp	17.01	D 17P	13.117	W -90	77.112	0.000	0.000	0.000	16.006	0.0000	0
Diag S10	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	78.55	Comp	18.28	D 19P	12.613	W -90	69.012	0.000	0.000	0.000	15.532	0.0000	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	73.60	Comp	18.11	D 21P	12.499	W -90	69.012	0.000	0.000	0.000	15.083	0.0000	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	67.16	Comp	17.37	D 23X	11.989	W 90	69.012	0.000	0.000	0.000	14.662	0.0000	0
Diag S13	L 3.5" x 3.5" x 0.25"	SAR	3.5X3.5X0.25	36.0	31.63	Comp	10.56	D 26P	5.780	W -90	54.756	0.000	0.000	0.000	16.556	0.0000	0
Diag S14	L 3.5" x 3.5" x 0.25"	SAR	3.5X3.5X0.25	36.0	28.84	Comp	10.39	D 28X	5.687	W 90	54.756	0.000	0.000	0.000	15.574	0.0000	0
Diag S15	L 3" x 3" x 0.25"	SAR	3X3X0.25	36.0	20.80	Comp	6.97	D 29Y	3.251	W 0	46.656	0.000	0.000	0.000	13.657	0.0000	0
Diag S16	L 3" x 3" x 0.25"	SAR	3X3X0.25	36.0	11.72	Comp	3.83	D 31Y	1.787	W 0	46.656	0.000	0.000	0.000	12.841	0.0000	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	55.58	Comp	37.09	H 1P	34.611	W 90	93.312	0.000	0.000	0.000	20.120	0.0000	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	55.56	Comp	34.95	H 3X	32.523	W -90	93.312	0.000	0.000	0.000	12.372	0.0000	0
Horiz 3	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	58.74	Comp	34.35	H 5X	29.071	W -90	85.212	0.000	0.000	0.000	11.331	0.0000	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	48.82	Comp	16.29	H 7X	13.884	W -90	85.212	0.000	0.000	0.000	15.434	0.0000	0
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	39.70	Comp	15.04	H 9P	12.820	W 90	85.212	0.000	0.000	0.000	13.872	0.0000	0
Horiz 6	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	43.70	Comp	14.53	H 11X	11.204	W -90	77.112	0.000	0.000	0.000	12.310	0.0000	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	33.47	Comp	13.67	H 13P	10.538	W 90	77.112	0.000	0.000	0.000	10.748	0.0000	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	26.46	Comp	11.80	H 15X	9.100	W -90	77.112	0.000	0.000	0.000	9.967	0.0000	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	21.25	Comp	10.71	H 17P	8.259	W 90	77.112	0.000	0.000	0.000	9.186	0.0000	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	16.80	Comp	9.54	H 19X	7.360	W -90	77.112	0.000	0.000	0.000	8.405	0.0000	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	14.52	Comp	9.13	H 21P	7.042	W 90	77.112	0.000	0.000	0.000	7.624	0.0000	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	9.92	Comp	8.55	H 23P	6.593	W 90	77.112	0.000	0.000	0.000	6.843	0.0000	0
Horiz 13	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	8.16	Tens	8.16	H 25P	3.462	W 0	42.444	0.000	0.000	0.000	12.416	0.0000	0
Horiz 14	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	2.45	Tens	2.45	H 27P	2.090	W 0	85.212	0.000	0.000	0.000	11.145	0.0000	0
Horiz 15	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	2.94	Tens	2.94	H 29P	1.246	W 0	42.444	0.000	0.000	0.000	10.073	0.0000	0
Horiz 16	CHN	CHN11.5		36.0	0.71	Comp	0.40	H 32X	0.441	W 0	109.512	0.000	0.000	0.000	9.000	0.0000	0
LD 1	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	37.20	Comp	22.76	LD 2Y	24.930	W -45	109.512	0.000	0.000	0.000	13.764	0.0000	0
LD 2	B/B L4"x4"x0.3125"	DAE	4X4X0.31	36.0	52.91	Comp	29.02	LD 3P	45.131	W -90	155.520	0.000	0.000	0.000	13.764	0.0000	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	66.59	Comp	25.06	LD 8Y	17.293	W -45	69.012	0.000	0.000	0.000	11.004	0.0000	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	59.22	Comp	33.68	LD 9P	23.241	W -90	69.012	0.000	0.000	0.000	8.060	0.0000	0
LD 6	B/B L3"x2"x0.25"	DAL	3X2X0.25	36.0	61.65	Comp	38.38	LD 11X	29.595	W -90	77.112	0.000	0.000	0.000	9.374	0.0000	0
LD 7	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	63.24	Comp	25.89	LD 14Y	17.864	W -45	69.012	0.000	0.000	0.000	10.440	0.0000	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	57.42	Comp	33.20	LD 15P	22.911	W -90	69.012	0.000	0.000	0.000	7.922	0.0000	0
LD 9	B/B L3"x3"x0.25"	DAE	3X3X0.25	36.0	42.21	Comp	30.73	LD 17X	28.675	W -90	93.312	0.000	0.000	0.000	9.039	0.0000	0
LH 1	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	18.98	Tens	18.98	LH 1Y	14.632	W 0	77.112	0.000	0.000	0.000	20.120	0.0000	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	67.96	Comp	21.81	LH 4Y	18.585	W -45	85.212	0.000	0.000	0.000	10.104	0.0000	0
LH 3	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	60.46	Comp	21.81	LH 6Y	18.582	W -45	85.212	0.000	0.000	0.000	9.291	0.0000	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00		0.00	BR 9X	0.796	W -45	0.324	0.000	0.000	0.000	19.618	0.0000	0

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
W 0	88.49	D 14P	Angle
W 180	89.32	D 14Y	Angle
W 45	68.89	L 1P	Angle
W -45	69.31	D 13X	Angle
W 90	88.67	D 13P	Angle
W -90	89.44	D 13X	Angle
W 0 Ice	24.64	L 1P	Angle
W 180 Ice	24.39	D 14Y	Angle
W 45 Ice	29.16	L 1P	Angle
W -45 Ice	28.38	L 1X	Angle
W 90 Ice	24.64	L 1P	Angle
W -90 Ice	24.40	D 13X	Angle

*** Weight of structure (lbs):
 Weight of Angles*Section DLF: 131305.8
 Weight of Equipment: 140.0
 Total: 131445.8

*** End of Report

Legs

Site No.:	88011
Engineer:	asp
Date:	12/22/2020
Carrier:	Verizon

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter or Length (in)	Thickness ^[2] (in)	F _y (ksi)
1	0.000-37.50	L	8	1.125	36
2	37.50-62.50	L	8	1.125	36
3	62.50-87.50	L	8	1	36
4	87.50-112.5	L	8	0.875	36
5	112.5-137.5	L	8	0.875	36
6	137.5-162.5	L	8	0.75	36
7	162.5-187.5	L	8	0.625	36
8	187.5-200.0	L	6	0.75	36
9	200.0-212.5	L	6	0.75	36
10	212.5-225.0	L	6	0.5625	36
11	225.0-237.5	L	6	0.5625	36
12	237.5-250.0	L	6	0.4375	36
13	250.0-260.2	L	5	0.4375	36
14	260.2-270.3	L	5	0.4375	36
15	270.3-278.9	L	5	0.3125	36
16	278.9-287.5	L	5	0.3125	36

Notes:

^[1] Type of Leg Shape: **R** = Round or **P** = Bent Plate or **S** = Schifflerized Angle. **L** = Even Leg

^[2] For Solid Round Leg Shapes Thickness Equals Zero.

^[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88011
Engineer:	asp
Date:	12/22/2020
Carrier:	Verizon

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Diag. Tension Only? (Y/N)
1	0.000-37.50	2L		5	5	0.3125	36	
2	37.50-62.50	2L		2.5	3.5	0.25	36	
3	62.50-87.50	2L		2.5	3.5	0.25	36	
4	87.50-112.5	2L		2.5	3	0.25	36	
5	112.5-137.5	2L		2.5	3	0.25	36	
6	137.5-162.5	2L		2.5	3	0.25	36	
7	162.5-187.5	2L		2.5	3	0.25	36	
8	187.5-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2	0.25	36	
11	225.0-237.5	2L		2.5	2	0.25	36	
12	237.5-250.0	2L		2.5	2	0.25	36	
13	250.0-260.2	L		3.5	3.5	0.25	36	
14	260.2-270.3	L		3.5	3.5	0.25	36	
15	270.3-278.9	L		3	3	0.25	36	
16	278.9-287.5	L		3	3	0.25	36	

Notes:

- ^[1] Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.
- ^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ^[3] Applies to Single-Angle and Double-Angle Shapes only.
- ^[4] Applies to Double-Angle Shapes only.
- ^[5] Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88011
Engineer:	asp
Date:	12/22/2020
Carrier:	Verizon

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	B/B Spacing (in.)
1	0.000-37.50	2L		3.5	2.5	0.25	36	
2	37.50-62.50	2L		3.5	2.5	0.25	36	
3	62.50-87.50	2L		3	2.5	0.25	36	
4	87.50-112.5	2L		3	2.5	0.25	36	
5	112.5-137.5	2L		3	2.5	0.25	36	
6	137.5-162.5	2L		2.5	2.5	0.25	36	
7	162.5-187.5	2L		2.5	2.5	0.25	36	
8	187.5-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2.5	0.25	36	
12	237.5-250.0	2L		2.5	2.5	0.25	36	
13	250.0-260.2	L		3	2.5	0.25	36	
14	260.2-270.3	2L		3	2.5	0.25	36	
15	270.3-278.9	L		3	2.5	0.25	36	
16	278.9-287.5	C		8	11.5		36	

Notes:

^[1] Type of Horizontal Shape: R = Round, L = Single-Angle, 2L = Double-Angle, C = Channel, W = W Shape

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88011
Engineer:	asp
Date:	12/22/2020
Carrier:	Verizon

When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)
1	0.000-37.50	2L		3.5	3.5	0.25	36
2	0.000-37.50	2L		4	4	0.3125	36
3	37.50-62.50	2L		2.5	2	0.25	36
4	37.50-62.50	2L		2.5	2	0.25	36
5	37.50-62.50	2L		3	2	0.25	36
6	62.50-87.50	2L		2.5	2	0.25	36
7	62.50-87.50	2L		2.5	2	0.25	36
8	62.50-87.50	2L		3	3	0.25	36

Notes:

- ^[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.
- ^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ^[3] Applies to Single-Angle and Double-Angle Shapes only.
- ^[4] Applies to Double-Angle Shapes only.
- ^[5] Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88011
Engineer:	asp
Date:	12/22/2020
Carrier:	Verizon

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Horiz. Tension Only? (Y/N)
1	0.000-37.50	2L		2.5	2.5	0.25	36	Y
2	37.50-62.50	2L		2.5	3	0.25	36	
3	62.50-87.50	2L		2.5	3	0.25	36	

Notes:

^[1] Type of Horizontal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Site No.	88011
Engineer	AW
Date	12/23/09
Carrier	Verizon

Exposure	B	Kc	0.962111
Type Cat.	1	D	7 Kc min
		E	3.01
		F	1200 Kc
		G	0.9 Kc

Site No.	88011
Engineer	AW
Date	12/23/09
Carrier	Verizon

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter** (in)	Perimeter (in)	Unit Weight (lb/ft)	In Face Zone? (Yes/No)	Include in Wind Load (Yes/No)
1 Ladder	0	17	1	Flat	1.5	6.0	6	No	Yes
2 COAX CAGE	8.3333	33.3333	2	Round	12	37.7	50	Yes	Yes
3 COAX CAGE	8.3333	33.3333	2	Round	12	37.7	50	Yes	Yes
4 WG1	5	266	1	Flat	1.5	6.0	6	Yes	Yes
5 WG2	5	266	1	Flat	1.5	6.0	6	Yes	Yes
6 WG3	5	277	1	Flat	1.5	6.0	6	Yes	Yes
7 SMC	5	287.5	1	Flat	3.05	35.3	4	Yes	Yes
8 SMC	5	287.5	1	Flat	4.8375	35.8	4.92	Yes	Yes
9 TMO1	5	277	1	Flat	3.195	17.0	6.44	Yes	No
10 TMO2	5	277	1	Round	0.63	2.0	0.15	No	No
11 VDW1	5	266	1	Round	1.54	4.8	1	Yes	Yes
12 VDW2	5	266	6	Round	1.98	6.2	0.82	Yes	Yes
13 ATT1	5	246	2	Round	0.99	3.2	0.17	Yes	Yes
14 ATT2	5	246	4	Round	0.82	2.6	0.02	Yes	Yes
15 ATT3	5	246	2	Round	2.38	7.5	3.65	Yes	Yes
16 ATFA	5	246	6	Round	2.38	7.5	1.22	Yes	Yes
17 SIGOR	5	287.5	1	Round	1.09	3.4	0.33	Yes	Yes
18 TMO3	5	277	4	Round	1.54	4.8	1	Yes	Yes

Description	From (ft)	To (ft)	Quantity	Face # (1-A, A-4)	Face W (ft)	Face H (ft)	Face S (ft)	Face E (ft)	Face N (ft)	Face S (ft)	Face E (ft)	Face N (ft)	% Exposed	Spacing (ft)	Shape (Round/Flat)	Block Width (# rows)	Block Depth (# rows)	Perimeter (in)	Unit Weight (lb/ft)	In Face Zone? (Yes/No)	Include in Wind Load (Yes/No)
1 LADDER	0	17	1		1.5	6.0							100		Flat	1	1	6.0	6	Yes	Yes
2 COAX CAGE	8.3333	33.3333	2		12	37.7							100		Round	2	1	37.7	50	Yes	Yes
3 COAX CAGE	8.3333	33.3333	2		12	37.7							100		Round	2	1	37.7	50	Yes	Yes
4 WG1	5	266	1		1.5	6.0							100		Flat	1	1	6.0	6	Yes	Yes
5 WG2	5	266	1		1.5	6.0							100		Flat	1	1	6.0	6	Yes	Yes
6 WG3	5	277	1		1.5	6.0							100		Flat	1	1	6.0	6	Yes	Yes
7 SMC	5	287.5	1		3.05	35.3							100		Flat	1	1	35.3	4	Yes	Yes
8 SMC	5	287.5	1		4.8375	35.8							100		Flat	1	1	35.8	4.92	Yes	Yes
9 TMO1	5	277	1		3.195	17.0							100		Flat	1	1	17.0	6.44	Yes	No
10 TMO2	5	277	1		0.63	2.0							100		Round	1	1	2.0	0.15	No	No
11 VDW1	5	266	1		1.54	4.8							100		Round	1	1	4.8	1	Yes	Yes
12 VDW2	5	266	6		1.98	6.2							100		Round	6	1	6.2	0.82	Yes	Yes
13 ATT1	5	246	2		0.99	3.2							100		Round	2	1	3.2	0.17	Yes	Yes
14 ATT2	5	246	4		0.82	2.6							100		Round	4	1	2.6	0.02	Yes	Yes
15 ATT3	5	246	2		2.38	7.5							100		Round	2	1	7.5	3.65	Yes	Yes
16 ATFA	5	246	6		2.38	7.5							100		Round	6	1	7.5	1.22	Yes	Yes
17 SIGOR	5	287.5	1		1.09	3.4							100		Round	1	1	3.4	0.33	Yes	Yes
18 TMO3	5	277	4		1.54	4.8							100		Round	4	1	4.8	1	Yes	Yes

**Note: Actual block width modified from 2.0 FT to 1.6 block when factor not shown by 1.0 block

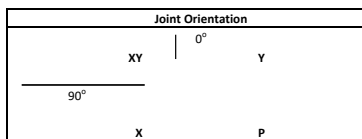
Dishes

Dish Types	
S	Standard
R	Standard w/ Radome
H	High Performance
G	Grid

Site No.:	88011
Engineer:	asp
Date:	12/22/20
Carrier:	Verizon

Dish Number	Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation	Equipment Status
1	277	2	45	H	XY	Proposed
2						
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Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle (deg)
2' HP 1 @ 277'	15XY	2 ft HP Dish	45



Foundation

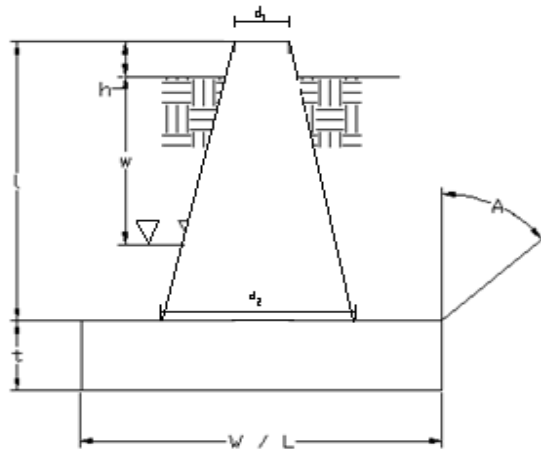
Design Loads (Factored)

Compression/Leg:	411.54	k
Uplift/Leg:	293.36	k
Shear/Leg:	56.23	k

Face Width @ Top of Pier (d_1):	3.50	ft
Face Width @ Bottom of Pier (d_2):	7.50	ft
Total Length of Pier (l):	8.50	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	14.75	ft
Length of Pad (L):	14.75	ft
Thickness of Pad (t):	3.25	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	120.0	pcf
Unit Weight of Soil (Below Water Table):	57.6	pcf
Friction Angle of Uplift (A):	30	°
Ultimate Compressive Bearing Pressure:	30000	psf
Ultimate Skin Friction:	1007	psf

Volume Pier (Total):	268.46	ft ³
Volume Pad (Total):	707.08	ft ³
Volume Soil (Total):	2747.35	ft ³
Volume Pier (Buoyant):	0.00	ft ³
Volume Pad (Buoyant):	0.00	ft ³
Volume Soil (Buoyant):	0.00	ft ³
Weight Pier:	40.27	k
Weight Pad:	106.06	k
Weight Soil:	329.68	k
Uplift Skin Friction:	144.82	k

Site No.:	88011
Engineer:	asp
Date:	12/22/20
Carrier:	Verizon



Uplift Check

ϕ_s Uplift Resistance (k)	Ratio	Result
465.62	0.63	OK

Axial Check

ϕ_s Axial Resistance (k)	Ratio	Result
4895.16	0.08	OK

Anchor Bolt Check

Bolt Diameter (in)	2.25
# of Bolts	6
Steel Grade	A36
Steel Fy	36
Steel Fu	58
Detail Type	C

Usage Ratio	Result
0.44	OK



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
Peter.Albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050481
Maser Consulting Connecticut Project #: 21777487A (Rev. 1)

June 30, 2021

Site Information

Site ID: 467465-VZW / KILLINGLY CT
Site Name: KILLINGLY CT
Carrier Name: Verizon Wireless
Address: 1375 North Rd
Killingly, Connecticut 06239
Windham County
Latitude: 41.871500°
Longitude: -71.821528°

Structure Information

Tower Type: 288-Ft Self Support
Mount Type: 12.46-Ft T-Frame

FUZE ID # 16271959

Analysis Results

T-Frame: 92.3% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

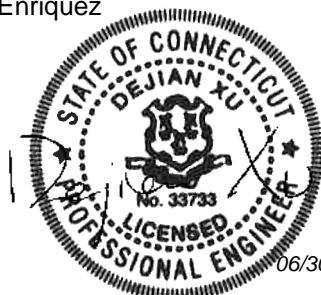
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Abigail Enriquez



06/30/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 324175, dated March 23, 2021
Mount Mapping Report	Hudson Design Group LLC., Site ID: 467465, dated March 30, 2021
Construction Drawings	A.T. Engineering Service, PLLC., Job #: 12962757, Dated August 7, 2019
Preliminary Construction Drawings	American Tower Job #: 13669420, Dated May 3, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 122 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 : 0.974
Seismic Parameters:	S_s : 0.186 S_1 : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
263.73	266.00	3	Samsung	MT6407-77A	Added
		4	Commscope	JAHH-45B-R3B	Retained
		2	Commscope	JAHH-65B-R3B	
		6	Amphenol Antel	LPA-80063-4CF-EDIN-6	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RRFDC-3315-PF-48	

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - 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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Antenna Pipe</i>	83.2%	<i>Pass</i>
<i>Tie Back</i>	22.7%	<i>Pass</i>
<i>Face Vertical</i>	41.1%	<i>Pass</i>
<i>Standoff Vertical</i>	77.9%	<i>Pass</i>
<i>Standoff Horizontal</i>	65.2%	<i>Pass</i>
<i>Mast Pipe</i>	51.5%	<i>Pass</i>
<i>Face Horizontal</i>	87.2%	<i>Pass</i>
<i>Connection Check</i>	92.3%	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	92.3%
---	--------------

Recommendation:


The existing mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

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

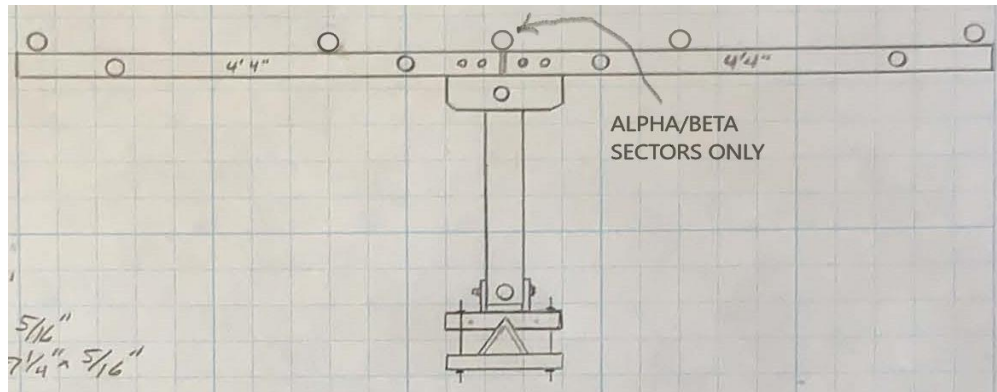
Attachments:

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

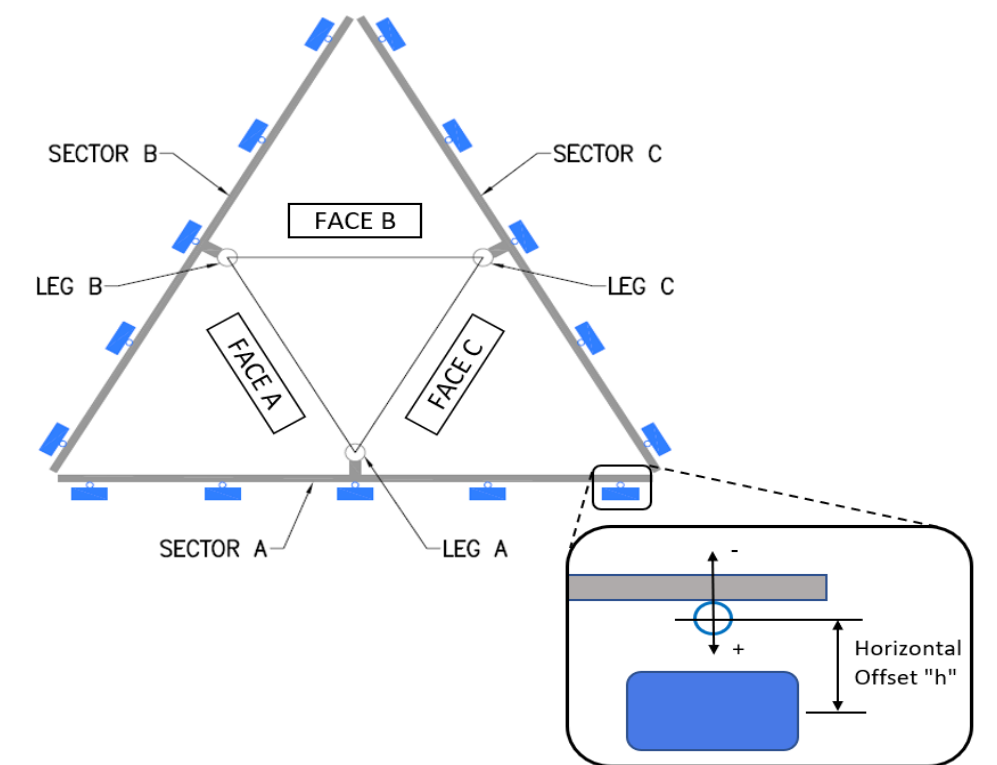


	Antenna Mount Mapping Form (PATENT PENDING)		FCC #
			1056419
Tower Owner:	AMERICAN TOWER	Mapping Date:	3/30/2021
Site Name:	KILLINGLY CT	Tower Type:	Self Support
Site Number or ID:	467465	Tower Height (Ft.):	300
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	266

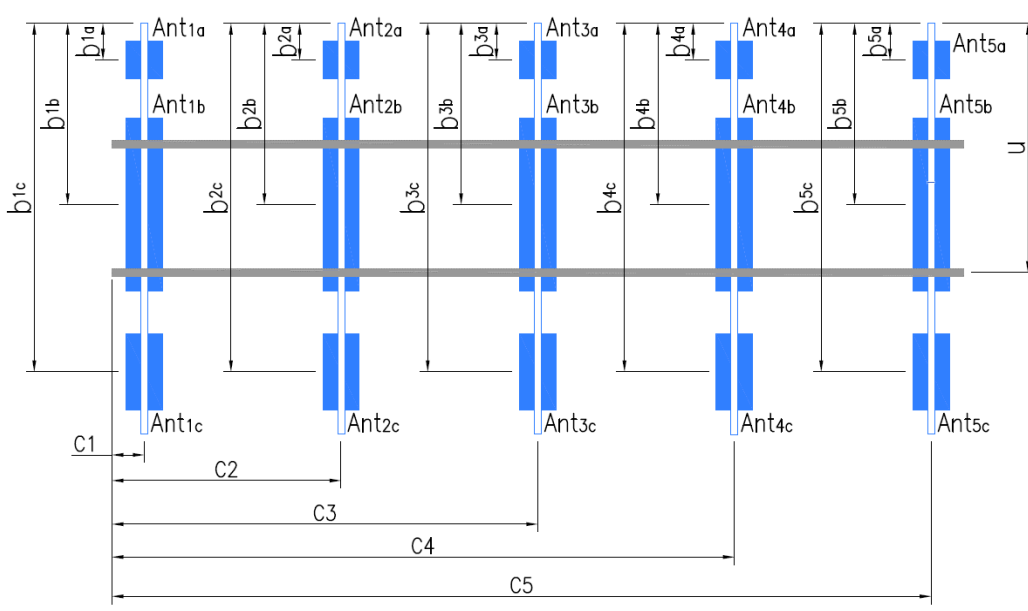
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is 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.



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	2" STD. PIPE X 72" LONG	66.00	3.00	C1	2" STD. PIPE X 72" LONG	66.00	3.00
A2	2" STD. PIPE X 84" LONG	78.00	51.00	C2	2" STD. PIPE X 84" LONG	78.00	51.00
A3	2" STD. PIPE X 72" LONG		72.00	C3	(EMPTY)		
A4	2" STD. PIPE X 84" LONG	78.00	99.00	C4	2" STD. PIPE X 84" LONG	78.00	99.00
A5	2" STD. PIPE X 72" LONG	66.00	147.00	C5	2" STD. PIPE X 72" LONG	66.00	147.00
A6				C6			
B1	2" STD. PIPE X 72" LONG	66.00	3.00	D1			
B2	2" STD. PIPE X 84" LONG	78.00	51.00	D2			
B3	2" STD. PIPE X 72" LONG		72.00	D3			
B4	2" STD. PIPE X 84" LONG	78.00	99.00	D4			
B5	2" STD. PIPE X 72" LONG	66.00	147.00	D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							18.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							7.5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):							
Please enter additional information or comments below.							
TOWER LEG: ANGLE 5"X5"X1/2" THK.							
Tower Face Width at Mount Elev. (ft.):		11	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		5		



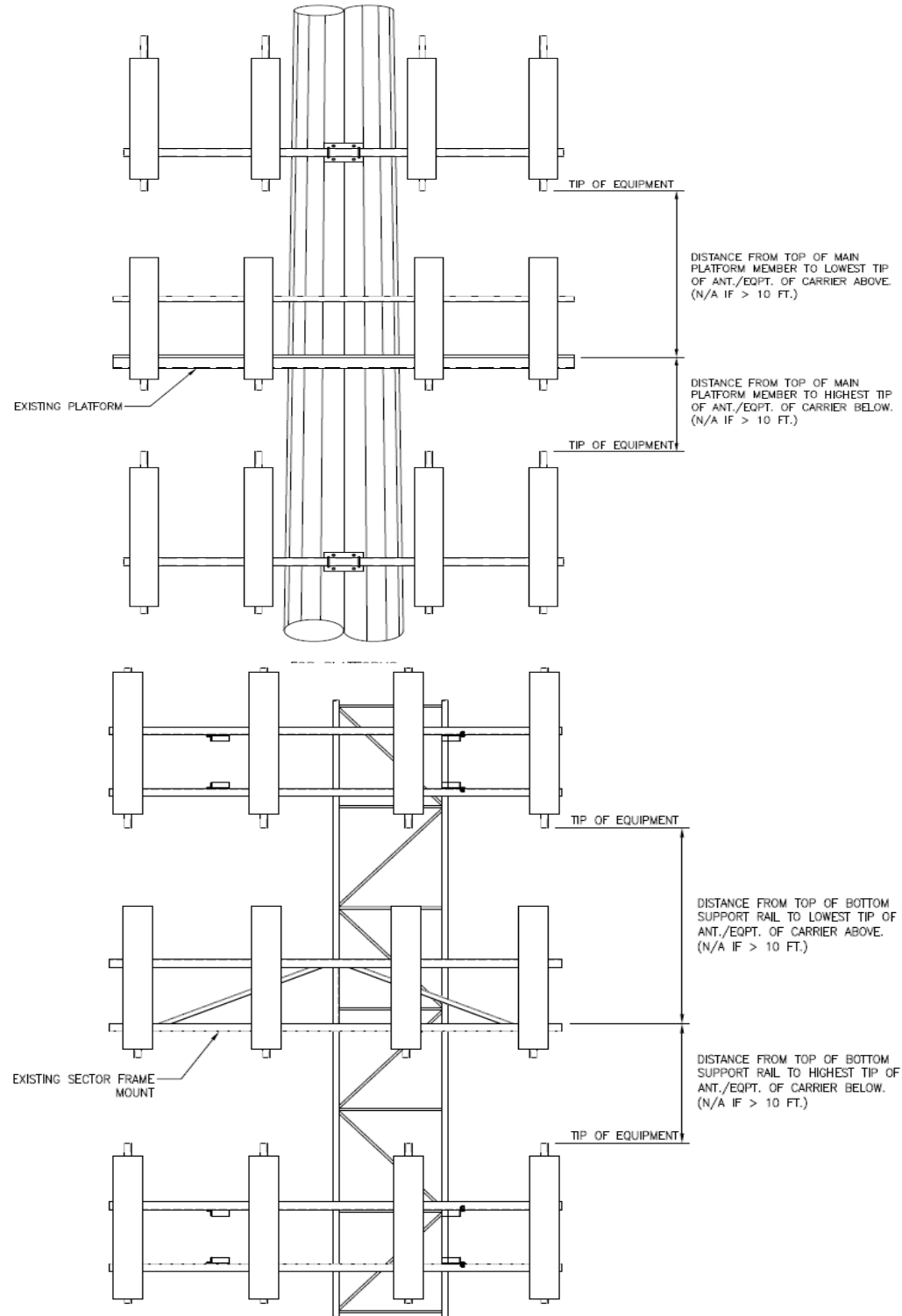
Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	
Sector A										
Ant _{1a}										
Ant _{1b}	LPA-80063-4CF	15.00	13.00	47.50		268.25	21.00	15.00	10.00	1, 14
Ant _{1c}										
Ant _{2a}	B13 RRH 4X30	12.00	7.50	20.50		270.167	10.00	-7.00		2,16
Ant _{2b}	SBNHH-1D65B	12.00	7.00	73.00		268	36.00	10.00	10.00	2, 15
Ant _{2c}										
Ant _{3a}	RRFDC-3315-PF-48	15.00	10.00	28.00		264.5		-9.00		2, 17
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	B66a RHH 4X45	12.00	7.00	25.50		269.917	13.00	-7.00		4, 19
Ant _{4b}	SBNHH-1D65B	12.00	7.00	73.00		268	36.00	10.00	10.00	4,15
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	LPA-80063-4CF	15.00	13.00	47.50		268.25	21.00	15.00	10.00	5,14
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B														
Sector A:	10.00	Deg	Leg A:	10.00	Deg	Ant _{1a}														
Sector B:	190.00	Deg	Leg B:	100.00	Deg	Ant _{1b}	LPA-80063-4CF	15.00	13.00	47.50		268.25	21.00	15.00	100.00	7, 14				
Sector C:	280.00	Deg	Leg C:	190.00	Deg	Ant _{1c}														
Sector D:		Deg	Leg D:	280.00	Deg	Ant _{2a}	B13 RRH 4X30	12.00	7.50	20.50		270.167	10.00	-7.00		7,16				

Climbing Facility Information		
Location:	10.00 Deg	Inside Corner Leg A
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.



Ant _{2b}	SBNHH-1D65B	12.00	7.00	73.00		268	36.00	10.00	100.00	7, 15
Ant _{2c}										
Ant _{3a}	RRFDC-3315-PF-48	15.00	10.00	28.00		264.5		-9.00		8, 17
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	B66a RHH 4X45	12.00	7.00	25.50		269.917	13.00	-7.00		9, 19
Ant _{4b}	SBNHH-1D65B	12.00	7.00	73.00		268	36.00	10.00	100.00	9,15
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	LPA-80063-4CF	15.00	13.00	47.50		268.25	21.00	15.00	100.00	9,14
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Sector C										
Ant _{1a}										
Ant _{1b}	LPA-80063-4CF	15.00	13.00	47.50		268.25	21.00	15.00	280.00	11, 14
Ant _{1c}										
Ant _{2a}	B13 RRH 4X30	12.00	7.50	20.50		270.167	10.00	-7.00		12,16
Ant _{2b}	SBNHH-1D65B	12.00	7.00	73.00		268	36.00	10.00	280.00	12, 15
Ant _{2c}										
Ant _{3a}										
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	B66a RHH 4X45	12.00	7.00	25.50		269.917	13.00	-7.00		13, 19
Ant _{4b}	SBNHH-1D65B	12.00	7.00	73.00		268	36.00	10.00	280.00	13,15
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	LPA-80063-4CF	15.00	13.00	47.50		268.25	21.00	15.00	280.00	13,14
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Sector D										
Ant _{1a}										
Ant _{1b}										
Ant _{1c}										
Ant _{2a}										
Ant _{2b}										
Ant _{2c}										
Ant _{3a}										
Ant _{3b}										
Ant _{3c}										
Ant _{4a}										
Ant _{4b}										
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

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


1		
2	(10) 1-5/8"Ø COAX, (2) 1-1/4"Ø HYBRID, (1) 5/8"Ø COAX	110-112
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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

	Antenna Mount Mapping Form (PATENT PENDING)		FCC #
			1056419
Tower Owner:	AMERICAN TOWER	Mapping Date:	3/30/2021
Site Name:	KILLINGLY CT	Tower Type:	Self Support
Site Number or ID:	467465	Tower Height (Ft.):	300
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	266

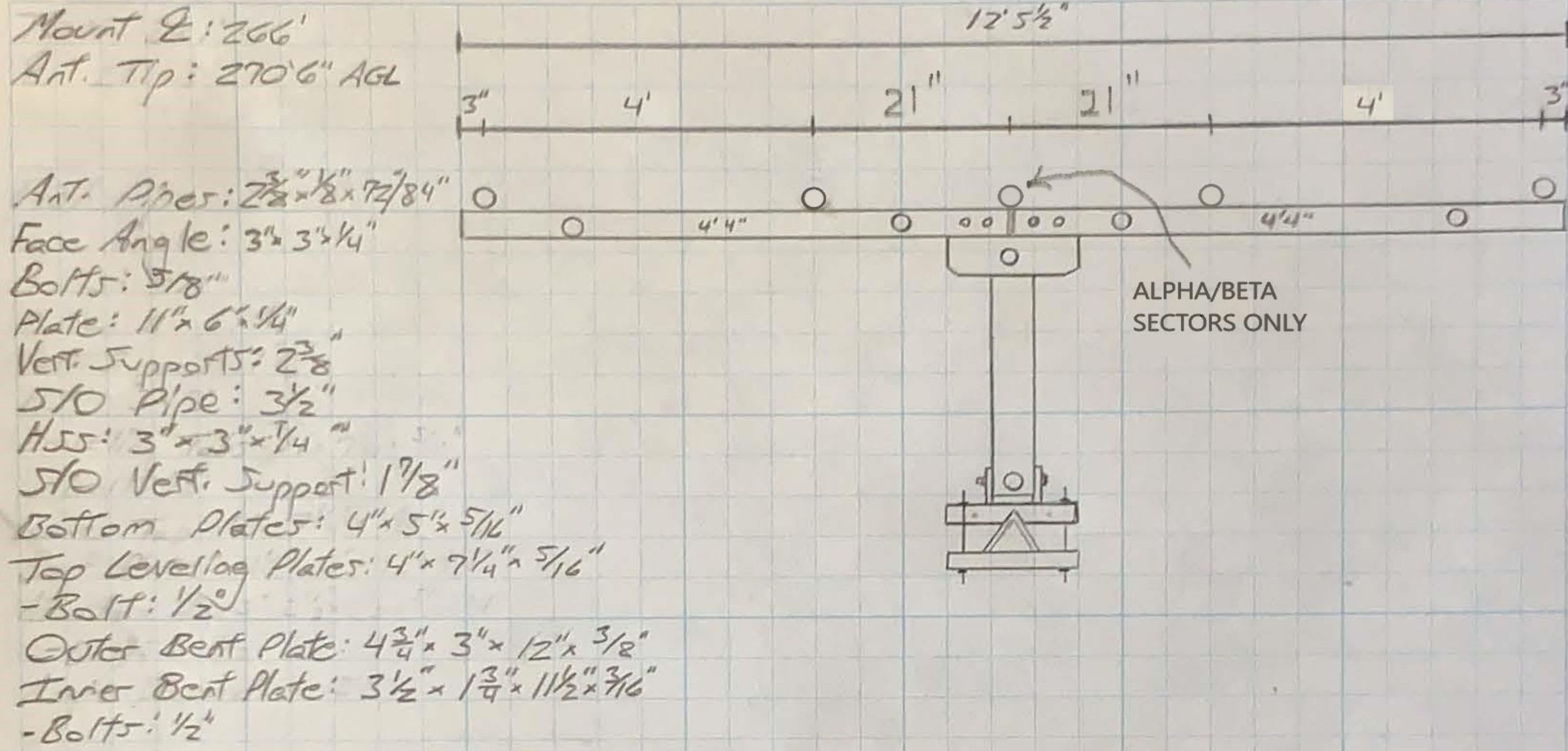
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Please Insert Sketches of the Antenna Mount

DATE: 3-30-21
 Project Name: _____
 Project No.: Killingly CT
 Design By: Josh Chk'd By: _____ Page ____ of ____



45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586



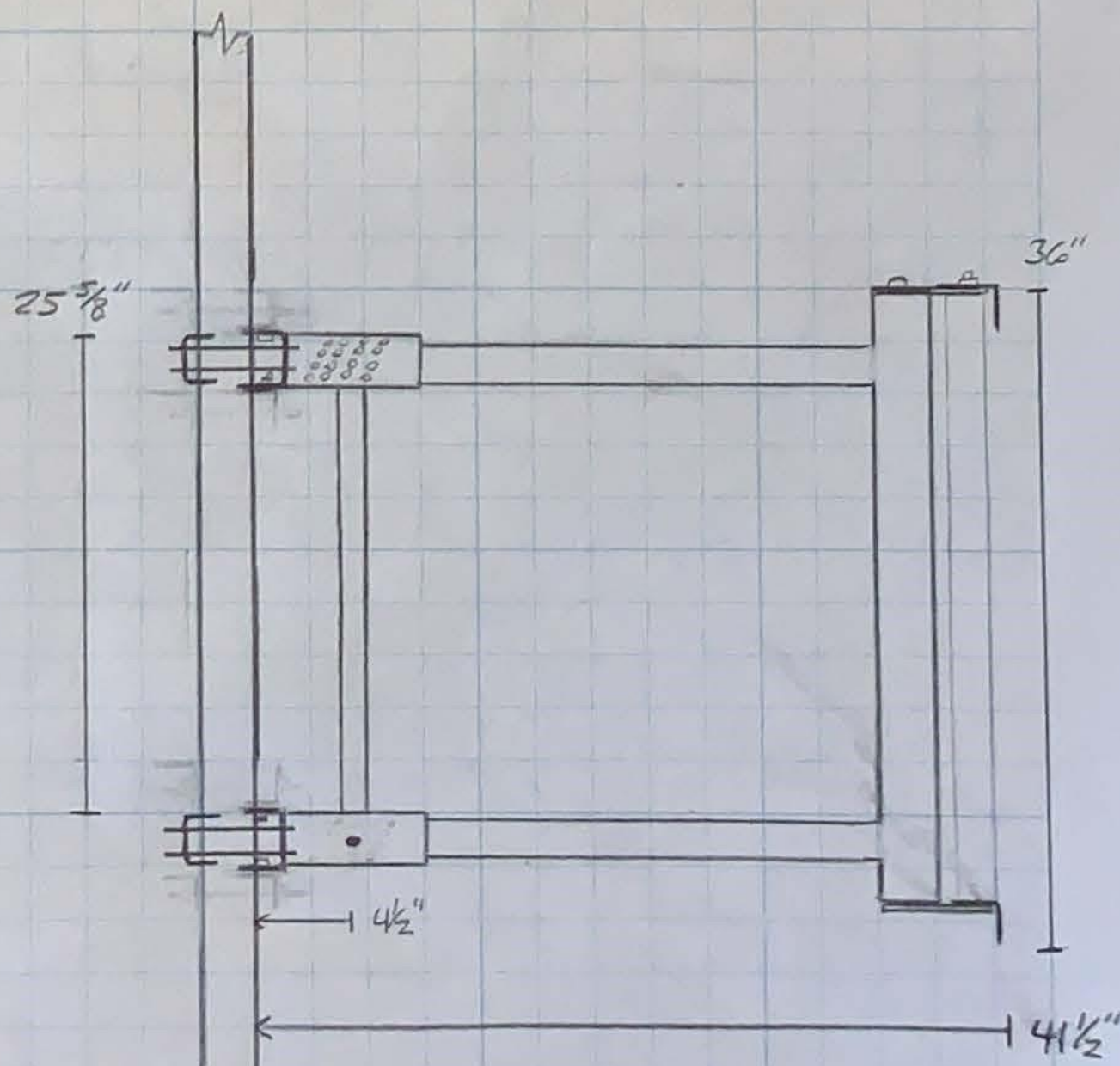
Tower Face: 11"
 Tower Leg: 5 x 5 x 1/2"
 Tower to face: 4 1/2"
 Stiff arm: 2 3/8"

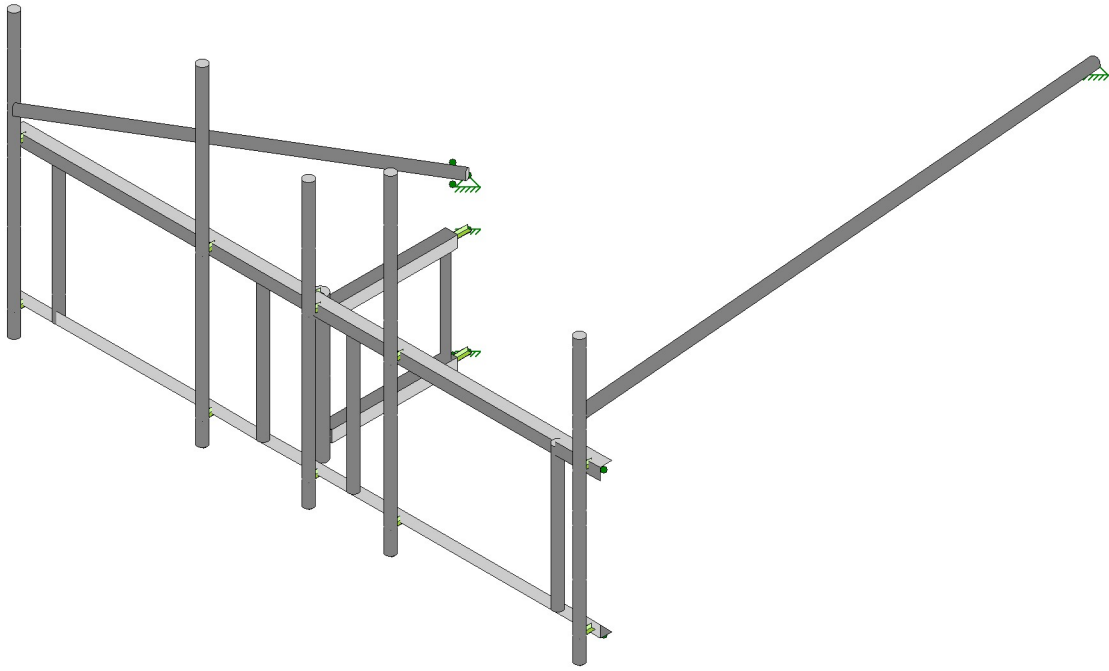
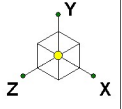
Inventory

#1 + #4
 LPA-80063-4CF

#2 + #3
 JBNHH-1DG5B

(3) B13 RRH 4x30
 (3) UHIE, B600 RRH 4x15
 (2) OVP



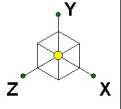


Envelope Only Solution

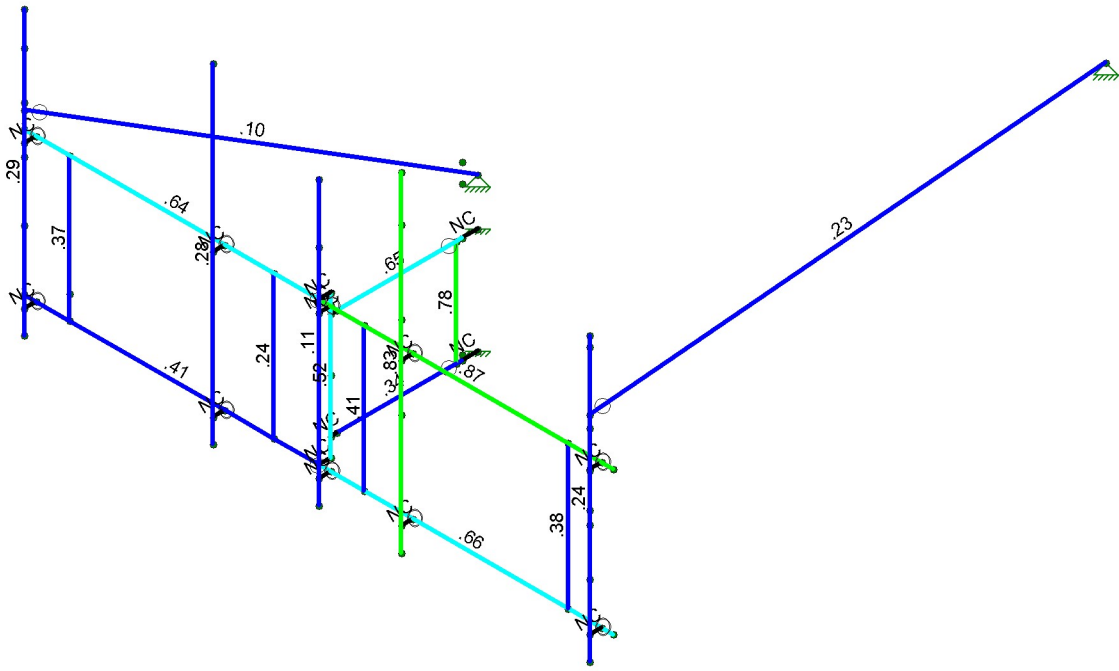
SK - 1

June 29, 2021 at 4:44 PM

467465-VZW_MT_LOT_A_H.r3d

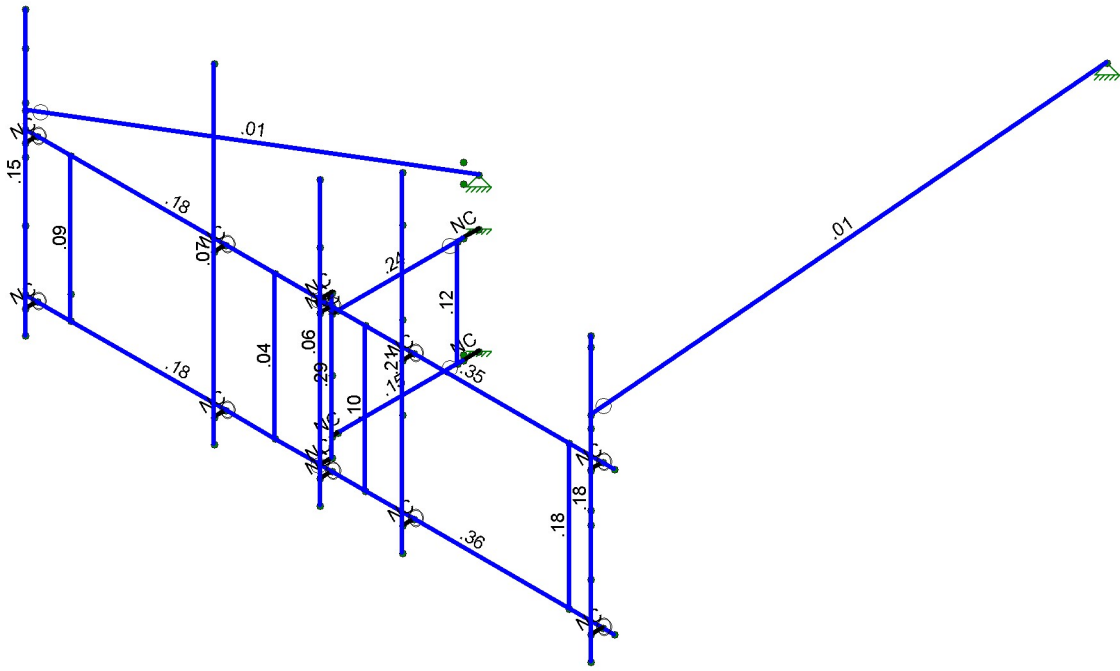
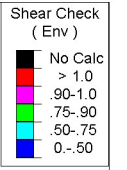
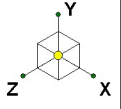


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

	SK - 2
	June 29, 2021 at 4:44 PM
	467465-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

SK - 3

June 29, 2021 at 4:44 PM

467465-VZW_MT_LOT_A_H.r3d



Company :
 Designer :
 Job Number :
 Model Name :

June 29, 2021
 4:44 PM
 Checked By: _____

Basic Load Cases

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

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
54 Structure Wi (30 Deg)	None						38	
55 Structure Wi (60 Deg)	None						38	
56 Structure Wi (90 Deg)	None						38	
57 Structure Wi (120 De..)	None						38	
58 Structure Wi (150 De..)	None						38	
59 Structure Wi (180 De..)	None						38	
60 Structure Wi (210 De..)	None						38	
61 Structure Wi (240 De..)	None						38	
62 Structure Wi (270 De..)	None						38	
63 Structure Wi (300 De..)	None						38	
64 Structure Wi (330 De..)	None						38	
65 Structure Wm (0 Deg)	None						38	
66 Structure Wm (30 De..)	None						38	
67 Structure Wm (60 De..)	None						38	
68 Structure Wm (90 De..)	None						38	
69 Structure Wm (120 D..)	None						38	
70 Structure Wm (150 D..)	None						38	
71 Structure Wm (180 D..)	None						38	
72 Structure Wm (210 D..)	None						38	
73 Structure Wm (240 D..)	None						38	
74 Structure Wm (270 D..)	None						38	
75 Structure Wm (300 D..)	None						38	
76 Structure Wm (330 D..)	None						38	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		

Load Combinations

Description	S...	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.2D+1.0Wo (0 ...)	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2 1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3 1.2D+1.0Wo (60...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4 1.2D+1.0Wo (90...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5 1.2D+1.0Wo (12...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6 1.2D+1.0Wo (15...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7 1.2D+1.0Wo (18...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8 1.2D+1.0Wo (21...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9 1.2D+1.0Wo (24...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10 1.2D+1.0Wo (27...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11 1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12 1.2D+1.0Wo (33...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24 1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25 1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										



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Load Combinations (Continued)

Description	S...	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
26	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1								
27	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1								
28	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1								
29	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1								
30	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1								
31	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1								
32	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1								
33	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1								
34	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1								
35	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1								
36	1.2D + 1.5Lm1 ...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1								
37	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1								
38	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1								
39	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1								
40	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1								
41	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1								
42	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1								
43	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1								
44	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1								
45	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1								
46	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1								
47	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1								
48	1.2D + 1.5Lm2 ...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1								
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5												
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5												
51	1.4D	Yes	Y	1	1.4	39	1.4														
52	Seismic Mass		Y	1	1	39	1														
53	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX		SY	1	SZ	-1								
54	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866								
55	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5								
56	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	1	SY	1	SZ									
57	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	.5								
58	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.866								
59	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX		SY	1	SZ	1								
60	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866								
61	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5								
62	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	-1	SY	1	SZ									
63	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5								
64	1.2D + 1.0Ev + ...		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866								

Joint Coordinates and Temperatures

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	ALPHA	-1.291667	-0.395833	2.487235	0
2	N2	-7.541667	-0.395833	2.487235	0
3	N3	4.958333	-0.395833	2.487235	0
4	N4	-1.291667	2.645833	2.487235	0
5	N5	-7.541667	2.645833	2.487235	0
6	N6	4.958333	2.645833	2.487235	0
7	N7	-2.25	-0.395833	2.487235	0
8	N8	-2.25	2.645833	2.487235	0
9	N9	-0.333333	-0.395833	2.487235	0
10	N10	-0.333333	2.645833	2.487235	0
11	N11	-6.583333	-0.395833	2.487235	0
12	N12	-6.583333	2.645833	2.487235	0
13	N13	4	-0.395833	2.487235	0



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
14	N14	4	2.645833	2.487235	0	
15	N15	4.708333	-0.395833	2.487235	0	
16	N16	4.708333	2.645833	2.487235	0	
17	N19	-1.291667	-0.395833	2.237235	0	
18	N20	-1.291667	2.645833	2.237235	0	
19	N21	-1.291667	1.125	2.237235	0	
20	N22	-1.291667	2.25	2.112235	0	
21	N23	-1.291667	0	2.112235	0	
22	N24	-1.291666	2.25	-0.554435	0	
23	N25	-1.291666	0	-0.554435	0	
24	N26	-1.291666	2.25	-0.429432	0	
25	N27	-1.291666	0	-0.429432	0	
26	N30	4.708333	-0.395833	2.737235	0	
27	N31	4.708333	2.645833	2.737235	0	
28	N35	4.708333	5.104167	2.737235	0	
29	N37	4.708333	-0.895833	2.737235	0	
30	N54	-6.583333	0.104167	2.487235	0	
31	N42	-1.291667	2.25	2.237235	0	
32	N43	-1.291667	0	2.237235	0	
33	N36	0.708333	-0.395833	2.487235	0	
34	N37A	0.708333	2.645833	2.487235	0	
35	N48	-7.291667	-0.395833	2.487235	0	
36	N49	-7.291667	2.645833	2.487235	0	
37	N50	-7.291667	-0.395833	2.737235	0	
38	N51	-7.291667	2.645833	2.737235	0	
39	N56	4.708333	1.625	2.737235	0	
40	N64	4.708333	2.625	2.737235	0	
41	N65	4.708333	.625	2.737235	0	
42	N70	-1.291666	0.104167	-0.554435	0	
43	N72	-1.041667	-0.395833	2.487235	0	
44	N73	-1.041667	2.645833	2.487235	0	
45	N74	-1.041667	-0.395833	2.737235	0	
46	N75	-1.041667	2.645833	2.737235	0	
47	N76	-1.041667	5.104167	2.737235	0	
48	N77	-1.041667	-0.895833	2.737235	0	
49	N82	-7.291667	5.104167	2.737235	0	
50	N83	-7.291667	-0.895833	2.737235	0	
51	N62A	0.708333	-0.395833	2.737235	0	
52	N63A	0.708333	2.645833	2.737235	0	
53	N64A	0.708333	6.104167	2.737235	0	
54	N65A	0.708333	-0.895833	2.737235	0	
55	N64B	-3.291667	-0.395833	2.487235	0	
56	N65B	-3.291667	2.645833	2.487235	0	
57	N66	-3.291667	-0.395833	2.737235	0	
58	N67	-3.291667	2.645833	2.737235	0	
59	N68	-3.291667	6.104167	2.737235	0	
60	N69	-3.291667	-0.895833	2.737235	0	
61	N65C	-7.291667	3.25	2.737235	0	
62	N66A	-1.291666	3.25	-0.554435	0	
63	N67B	4.708333	3.645833	2.737235	0	
64	N70A	-1.291666	3.645833	-0.554435	0	
65	N72A	3.708334	3.645833	-9.214689	0	
66	N69A	0.708333	3.395833	2.737235	0	
67	N70B	-7.291667	1.125	2.737235	0	
68	N71A	0.708333	5.145833	2.737235	0	
69	N72B	0.708333	1.645833	2.737235	0	
70	N73A	-7.291667	3.395833	2.737235	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
71	N74A	-7.291667	4.395833	2.737235	0	
72	N75A	-7.291667	2.395833	2.737235	0	
73	N76A	4.708333	3.395833	2.737235	0	
74	N77A	4.708333	4.895833	2.737235	0	
75	N78	4.708333	1.895833	2.737235	0	
76	N79	-1.041667	3.854167	2.737235	0	
77	N80	-1.291666	2.25	-0.887769	0	
78	N81	-1.291666	0	-0.887769	0	
79	N82A	-1.291666	3.25	-0.887769	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	L3X3X4	Beam	Single A...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
3	Face Vertical	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Horizontal	HSS3X3X4	Beam	SquareT...	A500 Gr. B 46	Typical	2.44	3.02	3.02	5.08
5	Standoff Vertical	PIPE 1.5	Column	Pipe	A53 Gr. B	Typical	.749	.293	.293	.586
6	Mast Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
7	Tie Back	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N6	N4		90	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
2	M2		N5		90	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
3	M3	N3	ALPHA			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
4	M4	ALPHA	N2			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N20	N4			RIGID	None	None	RIGID	Typical
6	M6	N19	ALPHA			RIGID	None	None	RIGID	Typical
7	M7	N19	N20			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
8	M8	N24	N22			Standoff Horiz...	Beam	SquareTube	A500 Gr.	Typical
9	M9	N25	N23			Standoff Horiz...	Beam	SquareTube	A500 Gr.	Typical
10	M10	N27	N26			Standoff Vertical	Column	Pipe	A53 Gr. B	Typical
11	M11	N12	N11			Face Vertical	Column	Pipe	A53 Gr. B	Typical
12	M12	N8	N7			Face Vertical	Column	Pipe	A53 Gr. B	Typical
13	M13	N10	N9			Face Vertical	Column	Pipe	A53 Gr. B	Typical
14	M14	N14	N13			Face Vertical	Column	Pipe	A53 Gr. B	Typical
15	M15	N16	N31			RIGID	None	None	RIGID	Typical
16	M16	N15	N30			RIGID	None	None	RIGID	Typical
17	MP1A	N35	N37			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
18	M25	N65C	N82A			Tie Back	Beam	Pipe	A53 Gr. B	Typical
19	M26	N67B	N72A			Tie Back	Beam	Pipe	A53 Gr. B	Typical
20	M24	N22	N42			RIGID	None	None	RIGID	Typical
21	M25A	N23	N43			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
22	M28	N49	N51			RIGID	None	None	RIGID	Typical
23	M29	N48	N50			RIGID	None	None	RIGID	Typical
24	M34	N73	N75			RIGID	None	None	RIGID	Typical
25	M35	N72	N74			RIGID	None	None	RIGID	Typical
26	MP3A	N76	N77			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
27	MP5A	N82	N83			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
28	M30	N37A	N63A			RIGID	None	None	RIGID	Typical
29	M31A	N36	N62A			RIGID	None	None	RIGID	Typical
30	MP2A	N64A	N65A			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
31	M33A	N65B	N67			RIGID	None	None	RIGID	Typical
32	M34A	N64B	N66			RIGID	None	None	RIGID	Typical
33	MP4A	N68	N69			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
34	M34B	N80	N24			RIGID	None	None	RIGID	Typical
35	M35A	N81	N25			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes	Default			None
3	M3						Yes				None
4	M4						Yes				None
5	M5	OOOOXO					Yes	** NA **			None
6	M6	OOOOXO					Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M8	OOOOOX					Yes	Default			None
9	M9	OOOOOX					Yes	Default			None
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14						Yes	** NA **			None
15	M15		OOOXOO				Yes	** NA **			None
16	M16		OOOXOO				Yes	** NA **			None
17	MP1A						Yes	** NA **			None
18	M25	OOOOXO					Yes				None
19	M26	OOOOXO					Yes				None
20	M24						Yes	** NA **			None
21	M25A						Yes	** NA **			None
22	M28		OOOXOO				Yes	** NA **			None
23	M29		OOOXOO				Yes	** NA **			None
24	M34		OOOXOO				Yes	** NA **			None
25	M35		OOOXOO				Yes	** NA **			None
26	MP3A						Yes	** NA **			None
27	MP5A						Yes	** NA **			None
28	M30		OOOXOO				Yes	** NA **			None
29	M31A		OOOXOO				Yes	** NA **			None
30	MP2A						Yes	** NA **			None
31	M33A		OOOXOO				Yes	** NA **			None
32	M34A		OOOXOO				Yes	** NA **			None
33	MP4A						Yes	** NA **			None
34	M34B						Yes	** NA **			None
35	M35A						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	.71
2	MP4A	My	-.022	.71
3	MP4A	Mz	0	.71
4	MP4A	Y	-43.55	2.71
5	MP4A	My	-.022	2.71
6	MP4A	Mz	0	2.71
7	MP2A	Y	-45.75	.96
8	MP2A	My	-.038	.96
9	MP2A	Mz	.042	.96
10	MP2A	Y	-45.75	4.58
11	MP2A	My	-.038	4.58
12	MP2A	Mz	.042	4.58
13	MP2A	Y	-45.75	.96
14	MP2A	My	-.038	.96
15	MP2A	Mz	-.042	.96
16	MP2A	Y	-45.75	4.58
17	MP2A	My	-.038	4.58
18	MP2A	Mz	-.042	4.58
19	MP1A	Y	-10	.21
20	MP1A	My	-.013	.21
21	MP1A	Mz	0	.21
22	MP1A	Y	-10	3.21
23	MP1A	My	-.013	3.21
24	MP1A	Mz	0	3.21
25	MP5A	Y	-10	.21
26	MP5A	My	-.013	.21
27	MP5A	Mz	0	.21
28	MP5A	Y	-10	3.21
29	MP5A	My	-.013	3.21
30	MP5A	Mz	0	3.21
31	MP2A	Y	-84.4	5
32	MP2A	My	.042	5
33	MP2A	Mz	0	5
34	MP4A	Y	-70.3	5
35	MP4A	My	.035	5
36	MP4A	Mz	0	5
37	MP3A	Y	-26.9	1.25
38	MP3A	My	.02	1.25
39	MP3A	Mz	0	1.25

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-38.279	.71
2	MP4A	My	-.019	.71
3	MP4A	Mz	0	.71
4	MP4A	Y	-38.279	2.71
5	MP4A	My	-.019	2.71
6	MP4A	Mz	0	2.71
7	MP2A	Y	-84.446	.96
8	MP2A	My	-.07	.96
9	MP2A	Mz	.077	.96
10	MP2A	Y	-84.446	4.58
11	MP2A	My	-.07	4.58
12	MP2A	Mz	.077	4.58
13	MP2A	Y	-84.446	.96

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP2A	My	-.07	.96
15	MP2A	Mz	-.077	.96
16	MP2A	Y	-84.446	4.58
17	MP2A	My	-.07	4.58
18	MP2A	Mz	-.077	4.58
19	MP1A	Y	-67.425	.21
20	MP1A	My	-.084	.21
21	MP1A	Mz	0	.21
22	MP1A	Y	-67.425	3.21
23	MP1A	My	-.084	3.21
24	MP1A	Mz	0	3.21
25	MP5A	Y	-67.425	.21
26	MP5A	My	-.084	.21
27	MP5A	Mz	0	.21
28	MP5A	Y	-67.425	3.21
29	MP5A	My	-.084	3.21
30	MP5A	Mz	0	3.21
31	MP2A	Y	-48.313	5
32	MP2A	My	.024	5
33	MP2A	Mz	0	5
34	MP4A	Y	-43.472	5
35	MP4A	My	.022	5
36	MP4A	Mz	0	5
37	MP3A	Y	-59.444	1.25
38	MP3A	My	.045	1.25
39	MP3A	Mz	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	.71
2	MP4A	Z	-115.708	.71
3	MP4A	Mx	0	.71
4	MP4A	X	0	2.71
5	MP4A	Z	-115.708	2.71
6	MP4A	Mx	0	2.71
7	MP2A	X	0	.96
8	MP2A	Z	-280.654	.96
9	MP2A	Mx	-.257	.96
10	MP2A	X	0	4.58
11	MP2A	Z	-280.654	4.58
12	MP2A	Mx	-.257	4.58
13	MP2A	X	0	.96
14	MP2A	Z	-280.654	.96
15	MP2A	Mx	.257	.96
16	MP2A	X	0	4.58
17	MP2A	Z	-280.654	4.58
18	MP2A	Mx	.257	4.58
19	MP1A	X	0	.21
20	MP1A	Z	-151.405	.21
21	MP1A	Mx	0	.21
22	MP1A	X	0	3.21
23	MP1A	Z	-151.405	3.21
24	MP1A	Mx	0	3.21
25	MP5A	X	0	.21
26	MP5A	Z	-151.405	.21
27	MP5A	Mx	0	.21

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
28	MP5A	X	0	3.21
29	MP5A	Z	-151.405	3.21
30	MP5A	Mx	0	3.21
31	MP2A	X	0	5
32	MP2A	Z	-92.074	5
33	MP2A	Mx	0	5
34	MP4A	X	0	5
35	MP4A	Z	-92.074	5
36	MP4A	Mx	0	5
37	MP3A	X	0	1.25
38	MP3A	Z	-123.094	1.25
39	MP3A	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	49.053	.71
2	MP4A	Z	-84.962	.71
3	MP4A	Mx	-.025	.71
4	MP4A	X	49.053	2.71
5	MP4A	Z	-84.962	2.71
6	MP4A	Mx	-.025	2.71
7	MP2A	X	121.504	.96
8	MP2A	Z	-210.451	.96
9	MP2A	Mx	-.294	.96
10	MP2A	X	121.504	4.58
11	MP2A	Z	-210.451	4.58
12	MP2A	Mx	-.294	4.58
13	MP2A	X	121.504	.96
14	MP2A	Z	-210.451	.96
15	MP2A	Mx	.092	.96
16	MP2A	X	121.504	4.58
17	MP2A	Z	-210.451	4.58
18	MP2A	Mx	.092	4.58
19	MP1A	X	73.36	.21
20	MP1A	Z	-127.064	.21
21	MP1A	Mx	-.092	.21
22	MP1A	X	73.36	3.21
23	MP1A	Z	-127.064	3.21
24	MP1A	Mx	-.092	3.21
25	MP5A	X	73.36	.21
26	MP5A	Z	-127.064	.21
27	MP5A	Mx	-.092	.21
28	MP5A	X	73.36	3.21
29	MP5A	Z	-127.064	3.21
30	MP5A	Mx	-.092	3.21
31	MP2A	X	42.221	5
32	MP2A	Z	-73.129	5
33	MP2A	Mx	.021	5
34	MP4A	X	40.759	5
35	MP4A	Z	-70.597	5
36	MP4A	Mx	.02	5
37	MP3A	X	56.152	1.25
38	MP3A	Z	-97.259	1.25
39	MP3A	Mx	.042	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	54.474	.71
2	MP4A	Z	-31.451	.71
3	MP4A	Mx	-.027	.71
4	MP4A	X	54.474	2.71
5	MP4A	Z	-31.451	2.71
6	MP4A	Mx	-.027	2.71
7	MP2A	X	145.246	.96
8	MP2A	Z	-83.858	.96
9	MP2A	Mx	-.198	.96
10	MP2A	X	145.246	4.58
11	MP2A	Z	-83.858	4.58
12	MP2A	Mx	-.198	4.58
13	MP2A	X	145.246	.96
14	MP2A	Z	-83.858	.96
15	MP2A	Mx	-.044	.96
16	MP2A	X	145.246	4.58
17	MP2A	Z	-83.858	4.58
18	MP2A	Mx	-.044	4.58
19	MP1A	X	118.949	.21
20	MP1A	Z	-68.675	.21
21	MP1A	Mx	-.149	.21
22	MP1A	X	118.949	3.21
23	MP1A	Z	-68.675	3.21
24	MP1A	Mx	-.149	3.21
25	MP5A	X	118.949	.21
26	MP5A	Z	-68.675	.21
27	MP5A	Mx	-.149	.21
28	MP5A	X	118.949	3.21
29	MP5A	Z	-68.675	3.21
30	MP5A	Mx	-.149	3.21
31	MP2A	X	59.911	5
32	MP2A	Z	-34.589	5
33	MP2A	Mx	.03	5
34	MP4A	X	52.315	5
35	MP4A	Z	-30.204	5
36	MP4A	Mx	.026	5
37	MP3A	X	78.571	1.25
38	MP3A	Z	-45.363	1.25
39	MP3A	Mx	.059	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	45.3	.71
2	MP4A	Z	0	.71
3	MP4A	Mx	-.023	.71
4	MP4A	X	45.3	2.71
5	MP4A	Z	0	2.71
6	MP4A	Mx	-.023	2.71
7	MP2A	X	130.069	.96
8	MP2A	Z	0	.96
9	MP2A	Mx	-.108	.96
10	MP2A	X	130.069	4.58
11	MP2A	Z	0	4.58
12	MP2A	Mx	-.108	4.58
13	MP2A	X	130.069	.96
14	MP2A	Z	0	.96

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
15	MP2A	Mx	-.108	.96
16	MP2A	X	130.069	4.58
17	MP2A	Z	0	4.58
18	MP2A	Mx	-.108	4.58
19	MP1A	X	132.666	.21
20	MP1A	Z	0	.21
21	MP1A	Mx	-.166	.21
22	MP1A	X	132.666	3.21
23	MP1A	Z	0	3.21
24	MP1A	Mx	-.166	3.21
25	MP5A	X	132.666	.21
26	MP5A	Z	0	.21
27	MP5A	Mx	-.166	.21
28	MP5A	X	132.666	3.21
29	MP5A	Z	0	3.21
30	MP5A	Mx	-.166	3.21
31	MP2A	X	61.547	5
32	MP2A	Z	0	5
33	MP2A	Mx	.031	5
34	MP4A	X	49.853	5
35	MP4A	Z	0	5
36	MP4A	Mx	.025	5
37	MP3A	X	79.937	1.25
38	MP3A	Z	0	1.25
39	MP3A	Mx	.06	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
1	MP4A	X	54.474	.71
2	MP4A	Z	31.451	.71
3	MP4A	Mx	-.027	.71
4	MP4A	X	54.474	2.71
5	MP4A	Z	31.451	2.71
6	MP4A	Mx	-.027	2.71
7	MP2A	X	145.246	.96
8	MP2A	Z	83.858	.96
9	MP2A	Mx	-.044	.96
10	MP2A	X	145.246	4.58
11	MP2A	Z	83.858	4.58
12	MP2A	Mx	-.044	4.58
13	MP2A	X	145.246	.96
14	MP2A	Z	83.858	.96
15	MP2A	Mx	-.198	.96
16	MP2A	X	145.246	4.58
17	MP2A	Z	83.858	4.58
18	MP2A	Mx	-.198	4.58
19	MP1A	X	118.949	.21
20	MP1A	Z	68.675	.21
21	MP1A	Mx	-.149	.21
22	MP1A	X	118.949	3.21
23	MP1A	Z	68.675	3.21
24	MP1A	Mx	-.149	3.21
25	MP5A	X	118.949	.21
26	MP5A	Z	68.675	.21
27	MP5A	Mx	-.149	.21
28	MP5A	X	118.949	3.21



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	68.675	3.21
30	MP5A	Mx	-.149	3.21
31	MP2A	X	59.911	5
32	MP2A	Z	34.589	5
33	MP2A	Mx	.03	5
34	MP4A	X	52.315	5
35	MP4A	Z	30.204	5
36	MP4A	Mx	.026	5
37	MP3A	X	78.571	1.25
38	MP3A	Z	45.363	1.25
39	MP3A	Mx	.059	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	49.053	.71
2	MP4A	Z	84.962	.71
3	MP4A	Mx	-.025	.71
4	MP4A	X	49.053	2.71
5	MP4A	Z	84.962	2.71
6	MP4A	Mx	-.025	2.71
7	MP2A	X	121.504	.96
8	MP2A	Z	210.451	.96
9	MP2A	Mx	.092	.96
10	MP2A	X	121.504	4.58
11	MP2A	Z	210.451	4.58
12	MP2A	Mx	.092	4.58
13	MP2A	X	121.504	.96
14	MP2A	Z	210.451	.96
15	MP2A	Mx	-.294	.96
16	MP2A	X	121.504	4.58
17	MP2A	Z	210.451	4.58
18	MP2A	Mx	-.294	4.58
19	MP1A	X	73.36	.21
20	MP1A	Z	127.064	.21
21	MP1A	Mx	-.092	.21
22	MP1A	X	73.36	3.21
23	MP1A	Z	127.064	3.21
24	MP1A	Mx	-.092	3.21
25	MP5A	X	73.36	.21
26	MP5A	Z	127.064	.21
27	MP5A	Mx	-.092	.21
28	MP5A	X	73.36	3.21
29	MP5A	Z	127.064	3.21
30	MP5A	Mx	-.092	3.21
31	MP2A	X	42.221	5
32	MP2A	Z	73.129	5
33	MP2A	Mx	.021	5
34	MP4A	X	40.759	5
35	MP4A	Z	70.597	5
36	MP4A	Mx	.02	5
37	MP3A	X	56.152	1.25
38	MP3A	Z	97.259	1.25
39	MP3A	Mx	.042	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.71
2	MP4A	Z	115.708	.71
3	MP4A	Mx	0	.71
4	MP4A	X	0	2.71
5	MP4A	Z	115.708	2.71
6	MP4A	Mx	0	2.71
7	MP2A	X	0	.96
8	MP2A	Z	280.654	.96
9	MP2A	Mx	.257	.96
10	MP2A	X	0	4.58
11	MP2A	Z	280.654	4.58
12	MP2A	Mx	.257	4.58
13	MP2A	X	0	.96
14	MP2A	Z	280.654	.96
15	MP2A	Mx	-.257	.96
16	MP2A	X	0	4.58
17	MP2A	Z	280.654	4.58
18	MP2A	Mx	-.257	4.58
19	MP1A	X	0	.21
20	MP1A	Z	151.405	.21
21	MP1A	Mx	0	.21
22	MP1A	X	0	3.21
23	MP1A	Z	151.405	3.21
24	MP1A	Mx	0	3.21
25	MP5A	X	0	.21
26	MP5A	Z	151.405	.21
27	MP5A	Mx	0	.21
28	MP5A	X	0	3.21
29	MP5A	Z	151.405	3.21
30	MP5A	Mx	0	3.21
31	MP2A	X	0	5
32	MP2A	Z	92.074	5
33	MP2A	Mx	0	5
34	MP4A	X	0	5
35	MP4A	Z	92.074	5
36	MP4A	Mx	0	5
37	MP3A	X	0	1.25
38	MP3A	Z	123.094	1.25
39	MP3A	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-49.053	.71
2	MP4A	Z	84.962	.71
3	MP4A	Mx	.025	.71
4	MP4A	X	-49.053	2.71
5	MP4A	Z	84.962	2.71
6	MP4A	Mx	.025	2.71
7	MP2A	X	-121.504	.96
8	MP2A	Z	210.451	.96
9	MP2A	Mx	.294	.96
10	MP2A	X	-121.504	4.58
11	MP2A	Z	210.451	4.58
12	MP2A	Mx	.294	4.58
13	MP2A	X	-121.504	.96
14	MP2A	Z	210.451	.96



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	-.092	.96
16	MP2A	X	-121.504	4.58
17	MP2A	Z	210.451	4.58
18	MP2A	Mx	-.092	4.58
19	MP1A	X	-73.36	.21
20	MP1A	Z	127.064	.21
21	MP1A	Mx	.092	.21
22	MP1A	X	-73.36	3.21
23	MP1A	Z	127.064	3.21
24	MP1A	Mx	.092	3.21
25	MP5A	X	-73.36	.21
26	MP5A	Z	127.064	.21
27	MP5A	Mx	.092	.21
28	MP5A	X	-73.36	3.21
29	MP5A	Z	127.064	3.21
30	MP5A	Mx	.092	3.21
31	MP2A	X	-42.221	5
32	MP2A	Z	73.129	5
33	MP2A	Mx	-.021	5
34	MP4A	X	-40.759	5
35	MP4A	Z	70.597	5
36	MP4A	Mx	-.02	5
37	MP3A	X	-56.152	1.25
38	MP3A	Z	97.259	1.25
39	MP3A	Mx	-.042	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-54.474	.71
2	MP4A	Z	31.451	.71
3	MP4A	Mx	.027	.71
4	MP4A	X	-54.474	2.71
5	MP4A	Z	31.451	2.71
6	MP4A	Mx	.027	2.71
7	MP2A	X	-145.246	.96
8	MP2A	Z	83.858	.96
9	MP2A	Mx	.198	.96
10	MP2A	X	-145.246	4.58
11	MP2A	Z	83.858	4.58
12	MP2A	Mx	.198	4.58
13	MP2A	X	-145.246	.96
14	MP2A	Z	83.858	.96
15	MP2A	Mx	.044	.96
16	MP2A	X	-145.246	4.58
17	MP2A	Z	83.858	4.58
18	MP2A	Mx	.044	4.58
19	MP1A	X	-118.949	.21
20	MP1A	Z	68.675	.21
21	MP1A	Mx	.149	.21
22	MP1A	X	-118.949	3.21
23	MP1A	Z	68.675	3.21
24	MP1A	Mx	.149	3.21
25	MP5A	X	-118.949	.21
26	MP5A	Z	68.675	.21
27	MP5A	Mx	.149	.21
28	MP5A	X	-118.949	3.21



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	68.675	3.21
30	MP5A	Mx	.149	3.21
31	MP2A	X	-59.911	5
32	MP2A	Z	34.589	5
33	MP2A	Mx	-.03	5
34	MP4A	X	-52.315	5
35	MP4A	Z	30.204	5
36	MP4A	Mx	-.026	5
37	MP3A	X	-78.571	1.25
38	MP3A	Z	45.363	1.25
39	MP3A	Mx	-.059	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-45.3	.71
2	MP4A	Z	0	.71
3	MP4A	Mx	.023	.71
4	MP4A	X	-45.3	2.71
5	MP4A	Z	0	2.71
6	MP4A	Mx	.023	2.71
7	MP2A	X	-130.069	.96
8	MP2A	Z	0	.96
9	MP2A	Mx	.108	.96
10	MP2A	X	-130.069	4.58
11	MP2A	Z	0	4.58
12	MP2A	Mx	.108	4.58
13	MP2A	X	-130.069	.96
14	MP2A	Z	0	.96
15	MP2A	Mx	.108	.96
16	MP2A	X	-130.069	4.58
17	MP2A	Z	0	4.58
18	MP2A	Mx	.108	4.58
19	MP1A	X	-132.666	.21
20	MP1A	Z	0	.21
21	MP1A	Mx	.166	.21
22	MP1A	X	-132.666	3.21
23	MP1A	Z	0	3.21
24	MP1A	Mx	.166	3.21
25	MP5A	X	-132.666	.21
26	MP5A	Z	0	.21
27	MP5A	Mx	.166	.21
28	MP5A	X	-132.666	3.21
29	MP5A	Z	0	3.21
30	MP5A	Mx	.166	3.21
31	MP2A	X	-61.547	5
32	MP2A	Z	0	5
33	MP2A	Mx	-.031	5
34	MP4A	X	-49.853	5
35	MP4A	Z	0	5
36	MP4A	Mx	-.025	5
37	MP3A	X	-79.937	1.25
38	MP3A	Z	0	1.25
39	MP3A	Mx	-.06	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-54.474	.71
2	MP4A	Z	-31.451	.71
3	MP4A	Mx	.027	.71
4	MP4A	X	-54.474	2.71
5	MP4A	Z	-31.451	2.71
6	MP4A	Mx	.027	2.71
7	MP2A	X	-145.246	.96
8	MP2A	Z	-83.858	.96
9	MP2A	Mx	.044	.96
10	MP2A	X	-145.246	4.58
11	MP2A	Z	-83.858	4.58
12	MP2A	Mx	.044	4.58
13	MP2A	X	-145.246	.96
14	MP2A	Z	-83.858	.96
15	MP2A	Mx	.198	.96
16	MP2A	X	-145.246	4.58
17	MP2A	Z	-83.858	4.58
18	MP2A	Mx	.198	4.58
19	MP1A	X	-118.949	.21
20	MP1A	Z	-68.675	.21
21	MP1A	Mx	.149	.21
22	MP1A	X	-118.949	3.21
23	MP1A	Z	-68.675	3.21
24	MP1A	Mx	.149	3.21
25	MP5A	X	-118.949	.21
26	MP5A	Z	-68.675	.21
27	MP5A	Mx	.149	.21
28	MP5A	X	-118.949	3.21
29	MP5A	Z	-68.675	3.21
30	MP5A	Mx	.149	3.21
31	MP2A	X	-59.911	5
32	MP2A	Z	-34.589	5
33	MP2A	Mx	-.03	5
34	MP4A	X	-52.315	5
35	MP4A	Z	-30.204	5
36	MP4A	Mx	-.026	5
37	MP3A	X	-78.571	1.25
38	MP3A	Z	-45.363	1.25
39	MP3A	Mx	-.059	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-49.053	.71
2	MP4A	Z	-84.962	.71
3	MP4A	Mx	.025	.71
4	MP4A	X	-49.053	2.71
5	MP4A	Z	-84.962	2.71
6	MP4A	Mx	.025	2.71
7	MP2A	X	-121.504	.96
8	MP2A	Z	-210.451	.96
9	MP2A	Mx	-.092	.96
10	MP2A	X	-121.504	4.58
11	MP2A	Z	-210.451	4.58
12	MP2A	Mx	-.092	4.58
13	MP2A	X	-121.504	.96
14	MP2A	Z	-210.451	.96

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	.294	.96
16	MP2A	X	-121.504	4.58
17	MP2A	Z	-210.451	4.58
18	MP2A	Mx	.294	4.58
19	MP1A	X	-73.36	.21
20	MP1A	Z	-127.064	.21
21	MP1A	Mx	.092	.21
22	MP1A	X	-73.36	3.21
23	MP1A	Z	-127.064	3.21
24	MP1A	Mx	.092	3.21
25	MP5A	X	-73.36	.21
26	MP5A	Z	-127.064	.21
27	MP5A	Mx	.092	.21
28	MP5A	X	-73.36	3.21
29	MP5A	Z	-127.064	3.21
30	MP5A	Mx	.092	3.21
31	MP2A	X	-42.221	5
32	MP2A	Z	-73.129	5
33	MP2A	Mx	-.021	5
34	MP4A	X	-40.759	5
35	MP4A	Z	-70.597	5
36	MP4A	Mx	-.02	5
37	MP3A	X	-56.152	1.25
38	MP3A	Z	-97.259	1.25
39	MP3A	Mx	-.042	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	.71
2	MP4A	Z	-22.129	.71
3	MP4A	Mx	0	.71
4	MP4A	X	0	2.71
5	MP4A	Z	-22.129	2.71
6	MP4A	Mx	0	2.71
7	MP2A	X	0	.96
8	MP2A	Z	-51.285	.96
9	MP2A	Mx	-.047	.96
10	MP2A	X	0	4.58
11	MP2A	Z	-51.285	4.58
12	MP2A	Mx	-.047	4.58
13	MP2A	X	0	.96
14	MP2A	Z	-51.285	.96
15	MP2A	Mx	.047	.96
16	MP2A	X	0	4.58
17	MP2A	Z	-51.285	4.58
18	MP2A	Mx	.047	4.58
19	MP1A	X	0	.21
20	MP1A	Z	-28.377	.21
21	MP1A	Mx	0	.21
22	MP1A	X	0	3.21
23	MP1A	Z	-28.377	3.21
24	MP1A	Mx	0	3.21
25	MP5A	X	0	.21
26	MP5A	Z	-28.377	.21
27	MP5A	Mx	0	.21
28	MP5A	X	0	3.21



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	-28.377	3.21
30	MP5A	Mx	0	3.21
31	MP2A	X	0	5
32	MP2A	Z	-18.72	5
33	MP2A	Mx	0	5
34	MP4A	X	0	5
35	MP4A	Z	-18.72	5
36	MP4A	Mx	0	5
37	MP3A	X	0	1.25
38	MP3A	Z	-24.355	1.25
39	MP3A	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	9.483	.71
2	MP4A	Z	-16.426	.71
3	MP4A	Mx	-.005	.71
4	MP4A	X	9.483	2.71
5	MP4A	Z	-16.426	2.71
6	MP4A	Mx	-.005	2.71
7	MP2A	X	22.407	.96
8	MP2A	Z	-38.81	.96
9	MP2A	Mx	-.054	.96
10	MP2A	X	22.407	4.58
11	MP2A	Z	-38.81	4.58
12	MP2A	Mx	-.054	4.58
13	MP2A	X	22.407	.96
14	MP2A	Z	-38.81	.96
15	MP2A	Mx	.017	.96
16	MP2A	X	22.407	4.58
17	MP2A	Z	-38.81	4.58
18	MP2A	Mx	.017	4.58
19	MP1A	X	13.784	.21
20	MP1A	Z	-23.875	.21
21	MP1A	Mx	-.017	.21
22	MP1A	X	13.784	3.21
23	MP1A	Z	-23.875	3.21
24	MP1A	Mx	-.017	3.21
25	MP5A	X	13.784	.21
26	MP5A	Z	-23.875	.21
27	MP5A	Mx	-.017	.21
28	MP5A	X	13.784	3.21
29	MP5A	Z	-23.875	3.21
30	MP5A	Mx	-.017	3.21
31	MP2A	X	8.652	5
32	MP2A	Z	-14.986	5
33	MP2A	Mx	.004	5
34	MP4A	X	8.383	5
35	MP4A	Z	-14.52	5
36	MP4A	Mx	.004	5
37	MP3A	X	11.204	1.25
38	MP3A	Z	-19.406	1.25
39	MP3A	Mx	.008	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	10.948	.71
2	MP4A	Z	-6.321	.71
3	MP4A	Mx	-.005	.71
4	MP4A	X	10.948	2.71
5	MP4A	Z	-6.321	2.71
6	MP4A	Mx	-.005	2.71
7	MP2A	X	27.601	.96
8	MP2A	Z	-15.936	.96
9	MP2A	Mx	-.038	.96
10	MP2A	X	27.601	4.58
11	MP2A	Z	-15.936	4.58
12	MP2A	Mx	-.038	4.58
13	MP2A	X	27.601	.96
14	MP2A	Z	-15.936	.96
15	MP2A	Mx	-.008	.96
16	MP2A	X	27.601	4.58
17	MP2A	Z	-15.936	4.58
18	MP2A	Mx	-.008	4.58
19	MP1A	X	22.473	.21
20	MP1A	Z	-12.975	.21
21	MP1A	Mx	-.028	.21
22	MP1A	X	22.473	3.21
23	MP1A	Z	-12.975	3.21
24	MP1A	Mx	-.028	3.21
25	MP5A	X	22.473	.21
26	MP5A	Z	-12.975	.21
27	MP5A	Mx	-.028	.21
28	MP5A	X	22.473	3.21
29	MP5A	Z	-12.975	3.21
30	MP5A	Mx	-.028	3.21
31	MP2A	X	12.533	5
32	MP2A	Z	-7.236	5
33	MP2A	Mx	.006	5
34	MP4A	X	11.135	5
35	MP4A	Z	-6.429	5
36	MP4A	Mx	.006	5
37	MP3A	X	16.036	1.25
38	MP3A	Z	-9.258	1.25
39	MP3A	Mx	.012	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	9.48	.71
2	MP4A	Z	0	.71
3	MP4A	Mx	-.005	.71
4	MP4A	X	9.48	2.71
5	MP4A	Z	0	2.71
6	MP4A	Mx	-.005	2.71
7	MP2A	X	25.4	.96
8	MP2A	Z	0	.96
9	MP2A	Mx	-.021	.96
10	MP2A	X	25.4	4.58
11	MP2A	Z	0	4.58
12	MP2A	Mx	-.021	4.58
13	MP2A	X	25.4	.96
14	MP2A	Z	0	.96



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	-.021	.96
16	MP2A	X	25.4	4.58
17	MP2A	Z	0	4.58
18	MP2A	Mx	-.021	4.58
19	MP1A	X	25.141	.21
20	MP1A	Z	0	.21
21	MP1A	Mx	-.031	.21
22	MP1A	X	25.141	3.21
23	MP1A	Z	0	3.21
24	MP1A	Mx	-.031	3.21
25	MP5A	X	25.141	.21
26	MP5A	Z	0	.21
27	MP5A	Mx	-.031	.21
28	MP5A	X	25.141	3.21
29	MP5A	Z	0	3.21
30	MP5A	Mx	-.031	3.21
31	MP2A	X	13.056	5
32	MP2A	Z	0	5
33	MP2A	Mx	.007	5
34	MP4A	X	10.904	5
35	MP4A	Z	0	5
36	MP4A	Mx	.005	5
37	MP3A	X	16.57	1.25
38	MP3A	Z	0	1.25
39	MP3A	Mx	.012	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	10.948	.71
2	MP4A	Z	6.321	.71
3	MP4A	Mx	-.005	.71
4	MP4A	X	10.948	2.71
5	MP4A	Z	6.321	2.71
6	MP4A	Mx	-.005	2.71
7	MP2A	X	27.601	.96
8	MP2A	Z	15.936	.96
9	MP2A	Mx	-.008	.96
10	MP2A	X	27.601	4.58
11	MP2A	Z	15.936	4.58
12	MP2A	Mx	-.008	4.58
13	MP2A	X	27.601	.96
14	MP2A	Z	15.936	.96
15	MP2A	Mx	-.038	.96
16	MP2A	X	27.601	4.58
17	MP2A	Z	15.936	4.58
18	MP2A	Mx	-.038	4.58
19	MP1A	X	22.473	.21
20	MP1A	Z	12.975	.21
21	MP1A	Mx	-.028	.21
22	MP1A	X	22.473	3.21
23	MP1A	Z	12.975	3.21
24	MP1A	Mx	-.028	3.21
25	MP5A	X	22.473	.21
26	MP5A	Z	12.975	.21
27	MP5A	Mx	-.028	.21
28	MP5A	X	22.473	3.21

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	12.975	3.21
30	MP5A	Mx	-.028	3.21
31	MP2A	X	12.533	5
32	MP2A	Z	7.236	5
33	MP2A	Mx	.006	5
34	MP4A	X	11.135	5
35	MP4A	Z	6.429	5
36	MP4A	Mx	.006	5
37	MP3A	X	16.036	1.25
38	MP3A	Z	9.258	1.25
39	MP3A	Mx	.012	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	9.483	.71
2	MP4A	Z	16.426	.71
3	MP4A	Mx	-.005	.71
4	MP4A	X	9.483	2.71
5	MP4A	Z	16.426	2.71
6	MP4A	Mx	-.005	2.71
7	MP2A	X	22.407	.96
8	MP2A	Z	38.81	.96
9	MP2A	Mx	.017	.96
10	MP2A	X	22.407	4.58
11	MP2A	Z	38.81	4.58
12	MP2A	Mx	.017	4.58
13	MP2A	X	22.407	.96
14	MP2A	Z	38.81	.96
15	MP2A	Mx	-.054	.96
16	MP2A	X	22.407	4.58
17	MP2A	Z	38.81	4.58
18	MP2A	Mx	-.054	4.58
19	MP1A	X	13.784	.21
20	MP1A	Z	23.875	.21
21	MP1A	Mx	-.017	.21
22	MP1A	X	13.784	3.21
23	MP1A	Z	23.875	3.21
24	MP1A	Mx	-.017	3.21
25	MP5A	X	13.784	.21
26	MP5A	Z	23.875	.21
27	MP5A	Mx	-.017	.21
28	MP5A	X	13.784	3.21
29	MP5A	Z	23.875	3.21
30	MP5A	Mx	-.017	3.21
31	MP2A	X	8.652	5
32	MP2A	Z	14.986	5
33	MP2A	Mx	.004	5
34	MP4A	X	8.383	5
35	MP4A	Z	14.52	5
36	MP4A	Mx	.004	5
37	MP3A	X	11.204	1.25
38	MP3A	Z	19.406	1.25
39	MP3A	Mx	.008	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	.71
2	MP4A	Z	22.129	.71
3	MP4A	Mx	0	.71
4	MP4A	X	0	2.71
5	MP4A	Z	22.129	2.71
6	MP4A	Mx	0	2.71
7	MP2A	X	0	.96
8	MP2A	Z	51.285	.96
9	MP2A	Mx	.047	.96
10	MP2A	X	0	4.58
11	MP2A	Z	51.285	4.58
12	MP2A	Mx	.047	4.58
13	MP2A	X	0	.96
14	MP2A	Z	51.285	.96
15	MP2A	Mx	-.047	.96
16	MP2A	X	0	4.58
17	MP2A	Z	51.285	4.58
18	MP2A	Mx	-.047	4.58
19	MP1A	X	0	.21
20	MP1A	Z	28.377	.21
21	MP1A	Mx	0	.21
22	MP1A	X	0	3.21
23	MP1A	Z	28.377	3.21
24	MP1A	Mx	0	3.21
25	MP5A	X	0	.21
26	MP5A	Z	28.377	.21
27	MP5A	Mx	0	.21
28	MP5A	X	0	3.21
29	MP5A	Z	28.377	3.21
30	MP5A	Mx	0	3.21
31	MP2A	X	0	5
32	MP2A	Z	18.72	5
33	MP2A	Mx	0	5
34	MP4A	X	0	5
35	MP4A	Z	18.72	5
36	MP4A	Mx	0	5
37	MP3A	X	0	1.25
38	MP3A	Z	24.355	1.25
39	MP3A	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-9.483	.71
2	MP4A	Z	16.426	.71
3	MP4A	Mx	.005	.71
4	MP4A	X	-9.483	2.71
5	MP4A	Z	16.426	2.71
6	MP4A	Mx	.005	2.71
7	MP2A	X	-22.407	.96
8	MP2A	Z	38.81	.96
9	MP2A	Mx	.054	.96
10	MP2A	X	-22.407	4.58
11	MP2A	Z	38.81	4.58
12	MP2A	Mx	.054	4.58
13	MP2A	X	-22.407	.96
14	MP2A	Z	38.81	.96



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	-.017	.96
16	MP2A	X	-22.407	4.58
17	MP2A	Z	38.81	4.58
18	MP2A	Mx	-.017	4.58
19	MP1A	X	-13.784	.21
20	MP1A	Z	23.875	.21
21	MP1A	Mx	.017	.21
22	MP1A	X	-13.784	3.21
23	MP1A	Z	23.875	3.21
24	MP1A	Mx	.017	3.21
25	MP5A	X	-13.784	.21
26	MP5A	Z	23.875	.21
27	MP5A	Mx	.017	.21
28	MP5A	X	-13.784	3.21
29	MP5A	Z	23.875	3.21
30	MP5A	Mx	.017	3.21
31	MP2A	X	-8.652	5
32	MP2A	Z	14.986	5
33	MP2A	Mx	-.004	5
34	MP4A	X	-8.383	5
35	MP4A	Z	14.52	5
36	MP4A	Mx	-.004	5
37	MP3A	X	-11.204	1.25
38	MP3A	Z	19.406	1.25
39	MP3A	Mx	-.008	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-10.948	.71
2	MP4A	Z	6.321	.71
3	MP4A	Mx	.005	.71
4	MP4A	X	-10.948	2.71
5	MP4A	Z	6.321	2.71
6	MP4A	Mx	.005	2.71
7	MP2A	X	-27.601	.96
8	MP2A	Z	15.936	.96
9	MP2A	Mx	.038	.96
10	MP2A	X	-27.601	4.58
11	MP2A	Z	15.936	4.58
12	MP2A	Mx	.038	4.58
13	MP2A	X	-27.601	.96
14	MP2A	Z	15.936	.96
15	MP2A	Mx	.008	.96
16	MP2A	X	-27.601	4.58
17	MP2A	Z	15.936	4.58
18	MP2A	Mx	.008	4.58
19	MP1A	X	-22.473	.21
20	MP1A	Z	12.975	.21
21	MP1A	Mx	.028	.21
22	MP1A	X	-22.473	3.21
23	MP1A	Z	12.975	3.21
24	MP1A	Mx	.028	3.21
25	MP5A	X	-22.473	.21
26	MP5A	Z	12.975	.21
27	MP5A	Mx	.028	.21
28	MP5A	X	-22.473	3.21

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	12.975	3.21
30	MP5A	Mx	.028	3.21
31	MP2A	X	-12.533	5
32	MP2A	Z	7.236	5
33	MP2A	Mx	-.006	5
34	MP4A	X	-11.135	5
35	MP4A	Z	6.429	5
36	MP4A	Mx	-.006	5
37	MP3A	X	-16.036	1.25
38	MP3A	Z	9.258	1.25
39	MP3A	Mx	-.012	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-9.48	.71
2	MP4A	Z	0	.71
3	MP4A	Mx	.005	.71
4	MP4A	X	-9.48	2.71
5	MP4A	Z	0	2.71
6	MP4A	Mx	.005	2.71
7	MP2A	X	-25.4	.96
8	MP2A	Z	0	.96
9	MP2A	Mx	.021	.96
10	MP2A	X	-25.4	4.58
11	MP2A	Z	0	4.58
12	MP2A	Mx	.021	4.58
13	MP2A	X	-25.4	.96
14	MP2A	Z	0	.96
15	MP2A	Mx	.021	.96
16	MP2A	X	-25.4	4.58
17	MP2A	Z	0	4.58
18	MP2A	Mx	.021	4.58
19	MP1A	X	-25.141	.21
20	MP1A	Z	0	.21
21	MP1A	Mx	.031	.21
22	MP1A	X	-25.141	3.21
23	MP1A	Z	0	3.21
24	MP1A	Mx	.031	3.21
25	MP5A	X	-25.141	.21
26	MP5A	Z	0	.21
27	MP5A	Mx	.031	.21
28	MP5A	X	-25.141	3.21
29	MP5A	Z	0	3.21
30	MP5A	Mx	.031	3.21
31	MP2A	X	-13.056	5
32	MP2A	Z	0	5
33	MP2A	Mx	-.007	5
34	MP4A	X	-10.904	5
35	MP4A	Z	0	5
36	MP4A	Mx	-.005	5
37	MP3A	X	-16.57	1.25
38	MP3A	Z	0	1.25
39	MP3A	Mx	-.012	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-10.948	.71
2	MP4A	Z	-6.321	.71
3	MP4A	Mx	.005	.71
4	MP4A	X	-10.948	2.71
5	MP4A	Z	-6.321	2.71
6	MP4A	Mx	.005	2.71
7	MP2A	X	-27.601	.96
8	MP2A	Z	-15.936	.96
9	MP2A	Mx	.008	.96
10	MP2A	X	-27.601	4.58
11	MP2A	Z	-15.936	4.58
12	MP2A	Mx	.008	4.58
13	MP2A	X	-27.601	.96
14	MP2A	Z	-15.936	.96
15	MP2A	Mx	.038	.96
16	MP2A	X	-27.601	4.58
17	MP2A	Z	-15.936	4.58
18	MP2A	Mx	.038	4.58
19	MP1A	X	-22.473	.21
20	MP1A	Z	-12.975	.21
21	MP1A	Mx	.028	.21
22	MP1A	X	-22.473	3.21
23	MP1A	Z	-12.975	3.21
24	MP1A	Mx	.028	3.21
25	MP5A	X	-22.473	.21
26	MP5A	Z	-12.975	.21
27	MP5A	Mx	.028	.21
28	MP5A	X	-22.473	3.21
29	MP5A	Z	-12.975	3.21
30	MP5A	Mx	.028	3.21
31	MP2A	X	-12.533	5
32	MP2A	Z	-7.236	5
33	MP2A	Mx	-.006	5
34	MP4A	X	-11.135	5
35	MP4A	Z	-6.429	5
36	MP4A	Mx	-.006	5
37	MP3A	X	-16.036	1.25
38	MP3A	Z	-9.258	1.25
39	MP3A	Mx	-.012	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-9.483	.71
2	MP4A	Z	-16.426	.71
3	MP4A	Mx	.005	.71
4	MP4A	X	-9.483	2.71
5	MP4A	Z	-16.426	2.71
6	MP4A	Mx	.005	2.71
7	MP2A	X	-22.407	.96
8	MP2A	Z	-38.81	.96
9	MP2A	Mx	-.017	.96
10	MP2A	X	-22.407	4.58
11	MP2A	Z	-38.81	4.58
12	MP2A	Mx	-.017	4.58
13	MP2A	X	-22.407	.96
14	MP2A	Z	-38.81	.96

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	.054	.96
16	MP2A	X	-22.407	4.58
17	MP2A	Z	-38.81	4.58
18	MP2A	Mx	.054	4.58
19	MP1A	X	-13.784	.21
20	MP1A	Z	-23.875	.21
21	MP1A	Mx	.017	.21
22	MP1A	X	-13.784	3.21
23	MP1A	Z	-23.875	3.21
24	MP1A	Mx	.017	3.21
25	MP5A	X	-13.784	.21
26	MP5A	Z	-23.875	.21
27	MP5A	Mx	.017	.21
28	MP5A	X	-13.784	3.21
29	MP5A	Z	-23.875	3.21
30	MP5A	Mx	.017	3.21
31	MP2A	X	-8.652	5
32	MP2A	Z	-14.986	5
33	MP2A	Mx	-.004	5
34	MP4A	X	-8.383	5
35	MP4A	Z	-14.52	5
36	MP4A	Mx	-.004	5
37	MP3A	X	-11.204	1.25
38	MP3A	Z	-19.406	1.25
39	MP3A	Mx	-.008	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	.71
2	MP4A	Z	-6.997	.71
3	MP4A	Mx	0	.71
4	MP4A	X	0	2.71
5	MP4A	Z	-6.997	2.71
6	MP4A	Mx	0	2.71
7	MP2A	X	0	.96
8	MP2A	Z	-16.97	.96
9	MP2A	Mx	-.016	.96
10	MP2A	X	0	4.58
11	MP2A	Z	-16.97	4.58
12	MP2A	Mx	-.016	4.58
13	MP2A	X	0	.96
14	MP2A	Z	-16.97	.96
15	MP2A	Mx	.016	.96
16	MP2A	X	0	4.58
17	MP2A	Z	-16.97	4.58
18	MP2A	Mx	.016	4.58
19	MP1A	X	0	.21
20	MP1A	Z	-9.155	.21
21	MP1A	Mx	0	.21
22	MP1A	X	0	3.21
23	MP1A	Z	-9.155	3.21
24	MP1A	Mx	0	3.21
25	MP5A	X	0	.21
26	MP5A	Z	-9.155	.21
27	MP5A	Mx	0	.21
28	MP5A	X	0	3.21

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	-9.155	3.21
30	MP5A	Mx	0	3.21
31	MP2A	X	0	5
32	MP2A	Z	-5.568	5
33	MP2A	Mx	0	5
34	MP4A	X	0	5
35	MP4A	Z	-5.568	5
36	MP4A	Mx	0	5
37	MP3A	X	0	1.25
38	MP3A	Z	-7.443	1.25
39	MP3A	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.966	.71
2	MP4A	Z	-5.137	.71
3	MP4A	Mx	-.001	.71
4	MP4A	X	2.966	2.71
5	MP4A	Z	-5.137	2.71
6	MP4A	Mx	-.001	2.71
7	MP2A	X	7.347	.96
8	MP2A	Z	-12.725	.96
9	MP2A	Mx	-.018	.96
10	MP2A	X	7.347	4.58
11	MP2A	Z	-12.725	4.58
12	MP2A	Mx	-.018	4.58
13	MP2A	X	7.347	.96
14	MP2A	Z	-12.725	.96
15	MP2A	Mx	.006	.96
16	MP2A	X	7.347	4.58
17	MP2A	Z	-12.725	4.58
18	MP2A	Mx	.006	4.58
19	MP1A	X	4.436	.21
20	MP1A	Z	-7.683	.21
21	MP1A	Mx	-.006	.21
22	MP1A	X	4.436	3.21
23	MP1A	Z	-7.683	3.21
24	MP1A	Mx	-.006	3.21
25	MP5A	X	4.436	.21
26	MP5A	Z	-7.683	.21
27	MP5A	Mx	-.006	.21
28	MP5A	X	4.436	3.21
29	MP5A	Z	-7.683	3.21
30	MP5A	Mx	-.006	3.21
31	MP2A	X	2.553	5
32	MP2A	Z	-4.422	5
33	MP2A	Mx	.001	5
34	MP4A	X	2.465	5
35	MP4A	Z	-4.269	5
36	MP4A	Mx	.001	5
37	MP3A	X	3.395	1.25
38	MP3A	Z	-5.881	1.25
39	MP3A	Mx	.003	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	3.294	.71
2	MP4A	Z	-1.902	.71
3	MP4A	Mx	-.002	.71
4	MP4A	X	3.294	2.71
5	MP4A	Z	-1.902	2.71
6	MP4A	Mx	-.002	2.71
7	MP2A	X	8.783	.96
8	MP2A	Z	-5.071	.96
9	MP2A	Mx	-.012	.96
10	MP2A	X	8.783	4.58
11	MP2A	Z	-5.071	4.58
12	MP2A	Mx	-.012	4.58
13	MP2A	X	8.783	.96
14	MP2A	Z	-5.071	.96
15	MP2A	Mx	-.003	.96
16	MP2A	X	8.783	4.58
17	MP2A	Z	-5.071	4.58
18	MP2A	Mx	-.003	4.58
19	MP1A	X	7.193	.21
20	MP1A	Z	-4.153	.21
21	MP1A	Mx	-.009	.21
22	MP1A	X	7.193	3.21
23	MP1A	Z	-4.153	3.21
24	MP1A	Mx	-.009	3.21
25	MP5A	X	7.193	.21
26	MP5A	Z	-4.153	.21
27	MP5A	Mx	-.009	.21
28	MP5A	X	7.193	3.21
29	MP5A	Z	-4.153	3.21
30	MP5A	Mx	-.009	3.21
31	MP2A	X	3.623	5
32	MP2A	Z	-2.092	5
33	MP2A	Mx	.002	5
34	MP4A	X	3.163	5
35	MP4A	Z	-1.826	5
36	MP4A	Mx	.002	5
37	MP3A	X	4.751	1.25
38	MP3A	Z	-2.743	1.25
39	MP3A	Mx	.004	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.739	.71
2	MP4A	Z	0	.71
3	MP4A	Mx	-.001	.71
4	MP4A	X	2.739	2.71
5	MP4A	Z	0	2.71
6	MP4A	Mx	-.001	2.71
7	MP2A	X	7.865	.96
8	MP2A	Z	0	.96
9	MP2A	Mx	-.007	.96
10	MP2A	X	7.865	4.58
11	MP2A	Z	0	4.58
12	MP2A	Mx	-.007	4.58
13	MP2A	X	7.865	.96
14	MP2A	Z	0	.96



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	-.007	.96
16	MP2A	X	7.865	4.58
17	MP2A	Z	0	4.58
18	MP2A	Mx	-.007	4.58
19	MP1A	X	8.022	.21
20	MP1A	Z	0	.21
21	MP1A	Mx	-.01	.21
22	MP1A	X	8.022	3.21
23	MP1A	Z	0	3.21
24	MP1A	Mx	-.01	3.21
25	MP5A	X	8.022	.21
26	MP5A	Z	0	.21
27	MP5A	Mx	-.01	.21
28	MP5A	X	8.022	3.21
29	MP5A	Z	0	3.21
30	MP5A	Mx	-.01	3.21
31	MP2A	X	3.722	5
32	MP2A	Z	0	5
33	MP2A	Mx	.002	5
34	MP4A	X	3.014	5
35	MP4A	Z	0	5
36	MP4A	Mx	.002	5
37	MP3A	X	4.834	1.25
38	MP3A	Z	0	1.25
39	MP3A	Mx	.004	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	3.294	.71
2	MP4A	Z	1.902	.71
3	MP4A	Mx	-.002	.71
4	MP4A	X	3.294	2.71
5	MP4A	Z	1.902	2.71
6	MP4A	Mx	-.002	2.71
7	MP2A	X	8.783	.96
8	MP2A	Z	5.071	.96
9	MP2A	Mx	-.003	.96
10	MP2A	X	8.783	4.58
11	MP2A	Z	5.071	4.58
12	MP2A	Mx	-.003	4.58
13	MP2A	X	8.783	.96
14	MP2A	Z	5.071	.96
15	MP2A	Mx	-.012	.96
16	MP2A	X	8.783	4.58
17	MP2A	Z	5.071	4.58
18	MP2A	Mx	-.012	4.58
19	MP1A	X	7.193	.21
20	MP1A	Z	4.153	.21
21	MP1A	Mx	-.009	.21
22	MP1A	X	7.193	3.21
23	MP1A	Z	4.153	3.21
24	MP1A	Mx	-.009	3.21
25	MP5A	X	7.193	.21
26	MP5A	Z	4.153	.21
27	MP5A	Mx	-.009	.21
28	MP5A	X	7.193	3.21



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	4.153	3.21
30	MP5A	Mx	-.009	3.21
31	MP2A	X	3.623	5
32	MP2A	Z	2.092	5
33	MP2A	Mx	.002	5
34	MP4A	X	3.163	5
35	MP4A	Z	1.826	5
36	MP4A	Mx	.002	5
37	MP3A	X	4.751	1.25
38	MP3A	Z	2.743	1.25
39	MP3A	Mx	.004	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	2.966	.71
2	MP4A	Z	5.137	.71
3	MP4A	Mx	-.001	.71
4	MP4A	X	2.966	2.71
5	MP4A	Z	5.137	2.71
6	MP4A	Mx	-.001	2.71
7	MP2A	X	7.347	.96
8	MP2A	Z	12.725	.96
9	MP2A	Mx	.006	.96
10	MP2A	X	7.347	4.58
11	MP2A	Z	12.725	4.58
12	MP2A	Mx	.006	4.58
13	MP2A	X	7.347	.96
14	MP2A	Z	12.725	.96
15	MP2A	Mx	-.018	.96
16	MP2A	X	7.347	4.58
17	MP2A	Z	12.725	4.58
18	MP2A	Mx	-.018	4.58
19	MP1A	X	4.436	.21
20	MP1A	Z	7.683	.21
21	MP1A	Mx	-.006	.21
22	MP1A	X	4.436	3.21
23	MP1A	Z	7.683	3.21
24	MP1A	Mx	-.006	3.21
25	MP5A	X	4.436	.21
26	MP5A	Z	7.683	.21
27	MP5A	Mx	-.006	.21
28	MP5A	X	4.436	3.21
29	MP5A	Z	7.683	3.21
30	MP5A	Mx	-.006	3.21
31	MP2A	X	2.553	5
32	MP2A	Z	4.422	5
33	MP2A	Mx	.001	5
34	MP4A	X	2.465	5
35	MP4A	Z	4.269	5
36	MP4A	Mx	.001	5
37	MP3A	X	3.395	1.25
38	MP3A	Z	5.881	1.25
39	MP3A	Mx	.003	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP4A	X	0	.71
2	MP4A	Z	6.997	.71
3	MP4A	Mx	0	.71
4	MP4A	X	0	2.71
5	MP4A	Z	6.997	2.71
6	MP4A	Mx	0	2.71
7	MP2A	X	0	.96
8	MP2A	Z	16.97	.96
9	MP2A	Mx	.016	.96
10	MP2A	X	0	4.58
11	MP2A	Z	16.97	4.58
12	MP2A	Mx	.016	4.58
13	MP2A	X	0	.96
14	MP2A	Z	16.97	.96
15	MP2A	Mx	-.016	.96
16	MP2A	X	0	4.58
17	MP2A	Z	16.97	4.58
18	MP2A	Mx	-.016	4.58
19	MP1A	X	0	.21
20	MP1A	Z	9.155	.21
21	MP1A	Mx	0	.21
22	MP1A	X	0	3.21
23	MP1A	Z	9.155	3.21
24	MP1A	Mx	0	3.21
25	MP5A	X	0	.21
26	MP5A	Z	9.155	.21
27	MP5A	Mx	0	.21
28	MP5A	X	0	3.21
29	MP5A	Z	9.155	3.21
30	MP5A	Mx	0	3.21
31	MP2A	X	0	5
32	MP2A	Z	5.568	5
33	MP2A	Mx	0	5
34	MP4A	X	0	5
35	MP4A	Z	5.568	5
36	MP4A	Mx	0	5
37	MP3A	X	0	1.25
38	MP3A	Z	7.443	1.25
39	MP3A	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP4A	X	-2.966	.71
2	MP4A	Z	5.137	.71
3	MP4A	Mx	.001	.71
4	MP4A	X	-2.966	2.71
5	MP4A	Z	5.137	2.71
6	MP4A	Mx	.001	2.71
7	MP2A	X	-7.347	.96
8	MP2A	Z	12.725	.96
9	MP2A	Mx	.018	.96
10	MP2A	X	-7.347	4.58
11	MP2A	Z	12.725	4.58
12	MP2A	Mx	.018	4.58
13	MP2A	X	-7.347	.96
14	MP2A	Z	12.725	.96

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	-.006	.96
16	MP2A	X	-7.347	4.58
17	MP2A	Z	12.725	4.58
18	MP2A	Mx	-.006	4.58
19	MP1A	X	-4.436	.21
20	MP1A	Z	7.683	.21
21	MP1A	Mx	.006	.21
22	MP1A	X	-4.436	3.21
23	MP1A	Z	7.683	3.21
24	MP1A	Mx	.006	3.21
25	MP5A	X	-4.436	.21
26	MP5A	Z	7.683	.21
27	MP5A	Mx	.006	.21
28	MP5A	X	-4.436	3.21
29	MP5A	Z	7.683	3.21
30	MP5A	Mx	.006	3.21
31	MP2A	X	-2.553	5
32	MP2A	Z	4.422	5
33	MP2A	Mx	-.001	5
34	MP4A	X	-2.465	5
35	MP4A	Z	4.269	5
36	MP4A	Mx	-.001	5
37	MP3A	X	-3.395	1.25
38	MP3A	Z	5.881	1.25
39	MP3A	Mx	-.003	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-3.294	.71
2	MP4A	Z	1.902	.71
3	MP4A	Mx	.002	.71
4	MP4A	X	-3.294	2.71
5	MP4A	Z	1.902	2.71
6	MP4A	Mx	.002	2.71
7	MP2A	X	-8.783	.96
8	MP2A	Z	5.071	.96
9	MP2A	Mx	.012	.96
10	MP2A	X	-8.783	4.58
11	MP2A	Z	5.071	4.58
12	MP2A	Mx	.012	4.58
13	MP2A	X	-8.783	.96
14	MP2A	Z	5.071	.96
15	MP2A	Mx	.003	.96
16	MP2A	X	-8.783	4.58
17	MP2A	Z	5.071	4.58
18	MP2A	Mx	.003	4.58
19	MP1A	X	-7.193	.21
20	MP1A	Z	4.153	.21
21	MP1A	Mx	.009	.21
22	MP1A	X	-7.193	3.21
23	MP1A	Z	4.153	3.21
24	MP1A	Mx	.009	3.21
25	MP5A	X	-7.193	.21
26	MP5A	Z	4.153	.21
27	MP5A	Mx	.009	.21
28	MP5A	X	-7.193	3.21

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP5A	Z	4.153	3.21
30	MP5A	Mx	.009	3.21
31	MP2A	X	-3.623	5
32	MP2A	Z	2.092	5
33	MP2A	Mx	-.002	5
34	MP4A	X	-3.163	5
35	MP4A	Z	1.826	5
36	MP4A	Mx	-.002	5
37	MP3A	X	-4.751	1.25
38	MP3A	Z	2.743	1.25
39	MP3A	Mx	-.004	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.739	.71
2	MP4A	Z	0	.71
3	MP4A	Mx	.001	.71
4	MP4A	X	-2.739	2.71
5	MP4A	Z	0	2.71
6	MP4A	Mx	.001	2.71
7	MP2A	X	-7.865	.96
8	MP2A	Z	0	.96
9	MP2A	Mx	.007	.96
10	MP2A	X	-7.865	4.58
11	MP2A	Z	0	4.58
12	MP2A	Mx	.007	4.58
13	MP2A	X	-7.865	.96
14	MP2A	Z	0	.96
15	MP2A	Mx	.007	.96
16	MP2A	X	-7.865	4.58
17	MP2A	Z	0	4.58
18	MP2A	Mx	.007	4.58
19	MP1A	X	-8.022	.21
20	MP1A	Z	0	.21
21	MP1A	Mx	.01	.21
22	MP1A	X	-8.022	3.21
23	MP1A	Z	0	3.21
24	MP1A	Mx	.01	3.21
25	MP5A	X	-8.022	.21
26	MP5A	Z	0	.21
27	MP5A	Mx	.01	.21
28	MP5A	X	-8.022	3.21
29	MP5A	Z	0	3.21
30	MP5A	Mx	.01	3.21
31	MP2A	X	-3.722	5
32	MP2A	Z	0	5
33	MP2A	Mx	-.002	5
34	MP4A	X	-3.014	5
35	MP4A	Z	0	5
36	MP4A	Mx	-.002	5
37	MP3A	X	-4.834	1.25
38	MP3A	Z	0	1.25
39	MP3A	Mx	-.004	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-3.294	.71
2	MP4A	Z	-1.902	.71
3	MP4A	Mx	.002	.71
4	MP4A	X	-3.294	2.71
5	MP4A	Z	-1.902	2.71
6	MP4A	Mx	.002	2.71
7	MP2A	X	-8.783	.96
8	MP2A	Z	-5.071	.96
9	MP2A	Mx	.003	.96
10	MP2A	X	-8.783	4.58
11	MP2A	Z	-5.071	4.58
12	MP2A	Mx	.003	4.58
13	MP2A	X	-8.783	.96
14	MP2A	Z	-5.071	.96
15	MP2A	Mx	.012	.96
16	MP2A	X	-8.783	4.58
17	MP2A	Z	-5.071	4.58
18	MP2A	Mx	.012	4.58
19	MP1A	X	-7.193	.21
20	MP1A	Z	-4.153	.21
21	MP1A	Mx	.009	.21
22	MP1A	X	-7.193	3.21
23	MP1A	Z	-4.153	3.21
24	MP1A	Mx	.009	3.21
25	MP5A	X	-7.193	.21
26	MP5A	Z	-4.153	.21
27	MP5A	Mx	.009	.21
28	MP5A	X	-7.193	3.21
29	MP5A	Z	-4.153	3.21
30	MP5A	Mx	.009	3.21
31	MP2A	X	-3.623	5
32	MP2A	Z	-2.092	5
33	MP2A	Mx	-.002	5
34	MP4A	X	-3.163	5
35	MP4A	Z	-1.826	5
36	MP4A	Mx	-.002	5
37	MP3A	X	-4.751	1.25
38	MP3A	Z	-2.743	1.25
39	MP3A	Mx	-.004	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.966	.71
2	MP4A	Z	-5.137	.71
3	MP4A	Mx	.001	.71
4	MP4A	X	-2.966	2.71
5	MP4A	Z	-5.137	2.71
6	MP4A	Mx	.001	2.71
7	MP2A	X	-7.347	.96
8	MP2A	Z	-12.725	.96
9	MP2A	Mx	-.006	.96
10	MP2A	X	-7.347	4.58
11	MP2A	Z	-12.725	4.58
12	MP2A	Mx	-.006	4.58
13	MP2A	X	-7.347	.96
14	MP2A	Z	-12.725	.96

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2A	Mx	.018	.96
16	MP2A	X	-7.347	4.58
17	MP2A	Z	-12.725	4.58
18	MP2A	Mx	.018	4.58
19	MP1A	X	-4.436	.21
20	MP1A	Z	-7.683	.21
21	MP1A	Mx	.006	.21
22	MP1A	X	-4.436	3.21
23	MP1A	Z	-7.683	3.21
24	MP1A	Mx	.006	3.21
25	MP5A	X	-4.436	.21
26	MP5A	Z	-7.683	.21
27	MP5A	Mx	.006	.21
28	MP5A	X	-4.436	3.21
29	MP5A	Z	-7.683	3.21
30	MP5A	Mx	.006	3.21
31	MP2A	X	-2.553	5
32	MP2A	Z	-4.422	5
33	MP2A	Mx	-.001	5
34	MP4A	X	-2.465	5
35	MP4A	Z	-4.269	5
36	MP4A	Mx	-.001	5
37	MP3A	X	-3.395	1.25
38	MP3A	Z	-5.881	1.25
39	MP3A	Mx	-.003	1.25

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M3	Y	-500	%32

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M4	Y	-500	%4

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M3	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	M4	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-8.232	-8.232	0	%100
2	M2	Y	-8.232	-8.232	0	%100
3	M3	Y	-8.232	-8.232	0	%100
4	M4	Y	-8.232	-8.232	0	%100
5	M7	Y	-7.115	-7.115	0	%100
6	M8	Y	-8.232	-8.232	0	%100
7	M9	Y	-8.232	-8.232	0	%100
8	M10	Y	-4.709	-4.709	0	%100
9	M11	Y	-5.423	-5.423	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
10	M12	Y	-5.423	-5.423	0	%100
11	M13	Y	-5.423	-5.423	0	%100
12	M14	Y	-5.423	-5.423	0	%100
13	MP1A	Y	-5.423	-5.423	0	%100
14	M25	Y	-5.423	-5.423	0	%100
15	M26	Y	-5.423	-5.423	0	%100
16	MP3A	Y	-5.423	-5.423	0	%100
17	MP5A	Y	-5.423	-5.423	0	%100
18	MP2A	Y	-5.423	-5.423	0	%100
19	MP4A	Y	-5.423	-5.423	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-24.619	-24.619	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-24.619	-24.619	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-24.619	-24.619	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-24.619	-24.619	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-11.796	-11.796	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-7.486	-7.486	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-9.608	-9.608	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-9.608	-9.608	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-9.608	-9.608	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-9.608	-9.608	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	-11.694	-11.694	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-8.567	-8.567	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.081	-.081	0	%100
31	MP3A	X	0	0	0	%100
32	MP3A	Z	-11.694	-11.694	0	%100
33	MP5A	X	0	0	0	%100
34	MP5A	Z	-11.694	-11.694	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-11.694	-11.694	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-11.694	-11.694	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	9.232	9.232	0	%100
2	M1	Z	-15.99	-15.99	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
3	M2	X	9.232	9.232	0	%100
4	M2	Z	-15.99	-15.99	0	%100
5	M3	X	9.232	9.232	0	%100
6	M3	Z	-15.99	-15.99	0	%100
7	M4	X	9.232	9.232	0	%100
8	M4	Z	-15.99	-15.99	0	%100
9	M7	X	5.898	5.898	0	%100
10	M7	Z	-10.216	-10.216	0	%100
11	M8	X	1.495	1.495	0	%100
12	M8	Z	-2.589	-2.589	0	%100
13	M9	X	1.495	1.495	0	%100
14	M9	Z	-2.589	-2.589	0	%100
15	M10	X	3.743	3.743	0	%100
16	M10	Z	-6.483	-6.483	0	%100
17	M11	X	4.804	4.804	0	%100
18	M11	Z	-8.321	-8.321	0	%100
19	M12	X	4.804	4.804	0	%100
20	M12	Z	-8.321	-8.321	0	%100
21	M13	X	4.804	4.804	0	%100
22	M13	Z	-8.321	-8.321	0	%100
23	M14	X	4.804	4.804	0	%100
24	M14	Z	-8.321	-8.321	0	%100
25	MP1A	X	5.847	5.847	0	%100
26	MP1A	Z	-10.127	-10.127	0	%100
27	M25	X	1.362	1.362	0	%100
28	M25	Z	-2.36	-2.36	0	%100
29	M26	X	1.903	1.903	0	%100
30	M26	Z	-3.296	-3.296	0	%100
31	MP3A	X	5.847	5.847	0	%100
32	MP3A	Z	-10.127	-10.127	0	%100
33	MP5A	X	5.847	5.847	0	%100
34	MP5A	Z	-10.127	-10.127	0	%100
35	MP2A	X	5.847	5.847	0	%100
36	MP2A	Z	-10.127	-10.127	0	%100
37	MP4A	X	5.847	5.847	0	%100
38	MP4A	Z	-10.127	-10.127	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	5.33	5.33	0	%100
2	M1	Z	-3.077	-3.077	0	%100
3	M2	X	5.33	5.33	0	%100
4	M2	Z	-3.077	-3.077	0	%100
5	M3	X	5.33	5.33	0	%100
6	M3	Z	-3.077	-3.077	0	%100
7	M4	X	5.33	5.33	0	%100
8	M4	Z	-3.077	-3.077	0	%100
9	M7	X	10.216	10.216	0	%100
10	M7	Z	-5.898	-5.898	0	%100
11	M8	X	7.766	7.766	0	%100
12	M8	Z	-4.484	-4.484	0	%100
13	M9	X	7.766	7.766	0	%100
14	M9	Z	-4.484	-4.484	0	%100
15	M10	X	6.483	6.483	0	%100
16	M10	Z	-3.743	-3.743	0	%100
17	M11	X	8.321	8.321	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
18	M11	Z	-4.804	-4.804	0	%100
19	M12	X	8.321	8.321	0	%100
20	M12	Z	-4.804	-4.804	0	%100
21	M13	X	8.321	8.321	0	%100
22	M13	Z	-4.804	-4.804	0	%100
23	M14	X	8.321	8.321	0	%100
24	M14	Z	-4.804	-4.804	0	%100
25	MP1A	X	10.127	10.127	0	%100
26	MP1A	Z	-5.847	-5.847	0	%100
27	M25	X	.004	.004	0	%100
28	M25	Z	-.002	-.002	0	%100
29	M26	X	8.289	8.289	0	%100
30	M26	Z	-4.786	-4.786	0	%100
31	MP3A	X	10.127	10.127	0	%100
32	MP3A	Z	-5.847	-5.847	0	%100
33	MP5A	X	10.127	10.127	0	%100
34	MP5A	Z	-5.847	-5.847	0	%100
35	MP2A	X	10.127	10.127	0	%100
36	MP2A	Z	-5.847	-5.847	0	%100
37	MP4A	X	10.127	10.127	0	%100
38	MP4A	Z	-5.847	-5.847	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	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	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M7	X	11.796	11.796	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	11.956	11.956	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	11.956	11.956	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	7.486	7.486	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	9.608	9.608	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	9.608	9.608	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	9.608	9.608	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	9.608	9.608	0	%100
24	M14	Z	0	0	0	%100
25	MP1A	X	11.694	11.694	0	%100
26	MP1A	Z	0	0	0	%100
27	M25	X	3.127	3.127	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	11.613	11.613	0	%100
30	M26	Z	0	0	0	%100
31	MP3A	X	11.694	11.694	0	%100
32	MP3A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
33	MP5A	X	11.694	11.694	0	%100
34	MP5A	Z	0	0	0	%100
35	MP2A	X	11.694	11.694	0	%100
36	MP2A	Z	0	0	0	%100
37	MP4A	X	11.694	11.694	0	%100
38	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	5.33	5.33	0	%100
2	M1	Z	3.077	3.077	0	%100
3	M2	X	5.33	5.33	0	%100
4	M2	Z	3.077	3.077	0	%100
5	M3	X	5.33	5.33	0	%100
6	M3	Z	3.077	3.077	0	%100
7	M4	X	5.33	5.33	0	%100
8	M4	Z	3.077	3.077	0	%100
9	M7	X	10.216	10.216	0	%100
10	M7	Z	5.898	5.898	0	%100
11	M8	X	7.766	7.766	0	%100
12	M8	Z	4.484	4.484	0	%100
13	M9	X	7.766	7.766	0	%100
14	M9	Z	4.484	4.484	0	%100
15	M10	X	6.483	6.483	0	%100
16	M10	Z	3.743	3.743	0	%100
17	M11	X	8.321	8.321	0	%100
18	M11	Z	4.804	4.804	0	%100
19	M12	X	8.321	8.321	0	%100
20	M12	Z	4.804	4.804	0	%100
21	M13	X	8.321	8.321	0	%100
22	M13	Z	4.804	4.804	0	%100
23	M14	X	8.321	8.321	0	%100
24	M14	Z	4.804	4.804	0	%100
25	MP1A	X	10.127	10.127	0	%100
26	MP1A	Z	5.847	5.847	0	%100
27	M25	X	7.768	7.768	0	%100
28	M25	Z	4.485	4.485	0	%100
29	M26	X	6.832	6.832	0	%100
30	M26	Z	3.944	3.944	0	%100
31	MP3A	X	10.127	10.127	0	%100
32	MP3A	Z	5.847	5.847	0	%100
33	MP5A	X	10.127	10.127	0	%100
34	MP5A	Z	5.847	5.847	0	%100
35	MP2A	X	10.127	10.127	0	%100
36	MP2A	Z	5.847	5.847	0	%100
37	MP4A	X	10.127	10.127	0	%100
38	MP4A	Z	5.847	5.847	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	9.232	9.232	0	%100
2	M1	Z	15.99	15.99	0	%100
3	M2	X	9.232	9.232	0	%100
4	M2	Z	15.99	15.99	0	%100
5	M3	X	9.232	9.232	0	%100
6	M3	Z	15.99	15.99	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	M4	X	9.232	9.232	0	%100
8	M4	Z	15.99	15.99	0	%100
9	M7	X	5.898	5.898	0	%100
10	M7	Z	10.216	10.216	0	%100
11	M8	X	1.495	1.495	0	%100
12	M8	Z	2.589	2.589	0	%100
13	M9	X	1.495	1.495	0	%100
14	M9	Z	2.589	2.589	0	%100
15	M10	X	3.743	3.743	0	%100
16	M10	Z	6.483	6.483	0	%100
17	M11	X	4.804	4.804	0	%100
18	M11	Z	8.321	8.321	0	%100
19	M12	X	4.804	4.804	0	%100
20	M12	Z	8.321	8.321	0	%100
21	M13	X	4.804	4.804	0	%100
22	M13	Z	8.321	8.321	0	%100
23	M14	X	4.804	4.804	0	%100
24	M14	Z	8.321	8.321	0	%100
25	MP1A	X	5.847	5.847	0	%100
26	MP1A	Z	10.127	10.127	0	%100
27	M25	X	5.845	5.845	0	%100
28	M25	Z	10.123	10.123	0	%100
29	M26	X	1.061	1.061	0	%100
30	M26	Z	1.838	1.838	0	%100
31	MP3A	X	5.847	5.847	0	%100
32	MP3A	Z	10.127	10.127	0	%100
33	MP5A	X	5.847	5.847	0	%100
34	MP5A	Z	10.127	10.127	0	%100
35	MP2A	X	5.847	5.847	0	%100
36	MP2A	Z	10.127	10.127	0	%100
37	MP4A	X	5.847	5.847	0	%100
38	MP4A	Z	10.127	10.127	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	24.619	24.619	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	24.619	24.619	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	24.619	24.619	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	24.619	24.619	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	11.796	11.796	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	7.486	7.486	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	9.608	9.608	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	9.608	9.608	0	%100
21	M13	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
22	M13	Z	9.608	9.608	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	9.608	9.608	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	11.694	11.694	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	8.567	8.567	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.081	.081	0	%100
31	MP3A	X	0	0	0	%100
32	MP3A	Z	11.694	11.694	0	%100
33	MP5A	X	0	0	0	%100
34	MP5A	Z	11.694	11.694	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	11.694	11.694	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	11.694	11.694	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-9.232	-9.232	0	%100
2	M1	Z	15.99	15.99	0	%100
3	M2	X	-9.232	-9.232	0	%100
4	M2	Z	15.99	15.99	0	%100
5	M3	X	-9.232	-9.232	0	%100
6	M3	Z	15.99	15.99	0	%100
7	M4	X	-9.232	-9.232	0	%100
8	M4	Z	15.99	15.99	0	%100
9	M7	X	-5.898	-5.898	0	%100
10	M7	Z	10.216	10.216	0	%100
11	M8	X	-1.495	-1.495	0	%100
12	M8	Z	2.589	2.589	0	%100
13	M9	X	-1.495	-1.495	0	%100
14	M9	Z	2.589	2.589	0	%100
15	M10	X	-3.743	-3.743	0	%100
16	M10	Z	6.483	6.483	0	%100
17	M11	X	-4.804	-4.804	0	%100
18	M11	Z	8.321	8.321	0	%100
19	M12	X	-4.804	-4.804	0	%100
20	M12	Z	8.321	8.321	0	%100
21	M13	X	-4.804	-4.804	0	%100
22	M13	Z	8.321	8.321	0	%100
23	M14	X	-4.804	-4.804	0	%100
24	M14	Z	8.321	8.321	0	%100
25	MP1A	X	-5.847	-5.847	0	%100
26	MP1A	Z	10.127	10.127	0	%100
27	M25	X	-1.362	-1.362	0	%100
28	M25	Z	2.36	2.36	0	%100
29	M26	X	-1.903	-1.903	0	%100
30	M26	Z	3.296	3.296	0	%100
31	MP3A	X	-5.847	-5.847	0	%100
32	MP3A	Z	10.127	10.127	0	%100
33	MP5A	X	-5.847	-5.847	0	%100
34	MP5A	Z	10.127	10.127	0	%100
35	MP2A	X	-5.847	-5.847	0	%100
36	MP2A	Z	10.127	10.127	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP4A	X	-5.847	-5.847	0	%100
38	MP4A	Z	10.127	10.127	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-5.33	-5.33	0	%100
2	M1	Z	3.077	3.077	0	%100
3	M2	X	-5.33	-5.33	0	%100
4	M2	Z	3.077	3.077	0	%100
5	M3	X	-5.33	-5.33	0	%100
6	M3	Z	3.077	3.077	0	%100
7	M4	X	-5.33	-5.33	0	%100
8	M4	Z	3.077	3.077	0	%100
9	M7	X	-10.216	-10.216	0	%100
10	M7	Z	5.898	5.898	0	%100
11	M8	X	-7.766	-7.766	0	%100
12	M8	Z	4.484	4.484	0	%100
13	M9	X	-7.766	-7.766	0	%100
14	M9	Z	4.484	4.484	0	%100
15	M10	X	-6.483	-6.483	0	%100
16	M10	Z	3.743	3.743	0	%100
17	M11	X	-8.321	-8.321	0	%100
18	M11	Z	4.804	4.804	0	%100
19	M12	X	-8.321	-8.321	0	%100
20	M12	Z	4.804	4.804	0	%100
21	M13	X	-8.321	-8.321	0	%100
22	M13	Z	4.804	4.804	0	%100
23	M14	X	-8.321	-8.321	0	%100
24	M14	Z	4.804	4.804	0	%100
25	MP1A	X	-10.127	-10.127	0	%100
26	MP1A	Z	5.847	5.847	0	%100
27	M25	X	-.004	-.004	0	%100
28	M25	Z	.002	.002	0	%100
29	M26	X	-8.289	-8.289	0	%100
30	M26	Z	4.786	4.786	0	%100
31	MP3A	X	-10.127	-10.127	0	%100
32	MP3A	Z	5.847	5.847	0	%100
33	MP5A	X	-10.127	-10.127	0	%100
34	MP5A	Z	5.847	5.847	0	%100
35	MP2A	X	-10.127	-10.127	0	%100
36	MP2A	Z	5.847	5.847	0	%100
37	MP4A	X	-10.127	-10.127	0	%100
38	MP4A	Z	5.847	5.847	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	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	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M7	X	-11.796	-11.796	0	%100
10	M7	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
11	M8	X	-11.956	-11.956	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-11.956	-11.956	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-7.486	-7.486	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-9.608	-9.608	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-9.608	-9.608	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-9.608	-9.608	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-9.608	-9.608	0	%100
24	M14	Z	0	0	0	%100
25	MP1A	X	-11.694	-11.694	0	%100
26	MP1A	Z	0	0	0	%100
27	M25	X	-3.127	-3.127	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-11.613	-11.613	0	%100
30	M26	Z	0	0	0	%100
31	MP3A	X	-11.694	-11.694	0	%100
32	MP3A	Z	0	0	0	%100
33	MP5A	X	-11.694	-11.694	0	%100
34	MP5A	Z	0	0	0	%100
35	MP2A	X	-11.694	-11.694	0	%100
36	MP2A	Z	0	0	0	%100
37	MP4A	X	-11.694	-11.694	0	%100
38	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-5.33	-5.33	0	%100
2	M1	Z	-3.077	-3.077	0	%100
3	M2	X	-5.33	-5.33	0	%100
4	M2	Z	-3.077	-3.077	0	%100
5	M3	X	-5.33	-5.33	0	%100
6	M3	Z	-3.077	-3.077	0	%100
7	M4	X	-5.33	-5.33	0	%100
8	M4	Z	-3.077	-3.077	0	%100
9	M7	X	-10.216	-10.216	0	%100
10	M7	Z	-5.898	-5.898	0	%100
11	M8	X	-7.766	-7.766	0	%100
12	M8	Z	-4.484	-4.484	0	%100
13	M9	X	-7.766	-7.766	0	%100
14	M9	Z	-4.484	-4.484	0	%100
15	M10	X	-6.483	-6.483	0	%100
16	M10	Z	-3.743	-3.743	0	%100
17	M11	X	-8.321	-8.321	0	%100
18	M11	Z	-4.804	-4.804	0	%100
19	M12	X	-8.321	-8.321	0	%100
20	M12	Z	-4.804	-4.804	0	%100
21	M13	X	-8.321	-8.321	0	%100
22	M13	Z	-4.804	-4.804	0	%100
23	M14	X	-8.321	-8.321	0	%100
24	M14	Z	-4.804	-4.804	0	%100
25	MP1A	X	-10.127	-10.127	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
26	MP1A	Z	-5.847	-5.847	0	%100
27	M25	X	-7.768	-7.768	0	%100
28	M25	Z	-4.485	-4.485	0	%100
29	M26	X	-6.832	-6.832	0	%100
30	M26	Z	-3.944	-3.944	0	%100
31	MP3A	X	-10.127	-10.127	0	%100
32	MP3A	Z	-5.847	-5.847	0	%100
33	MP5A	X	-10.127	-10.127	0	%100
34	MP5A	Z	-5.847	-5.847	0	%100
35	MP2A	X	-10.127	-10.127	0	%100
36	MP2A	Z	-5.847	-5.847	0	%100
37	MP4A	X	-10.127	-10.127	0	%100
38	MP4A	Z	-5.847	-5.847	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-9.232	-9.232	0	%100
2	M1	Z	-15.99	-15.99	0	%100
3	M2	X	-9.232	-9.232	0	%100
4	M2	Z	-15.99	-15.99	0	%100
5	M3	X	-9.232	-9.232	0	%100
6	M3	Z	-15.99	-15.99	0	%100
7	M4	X	-9.232	-9.232	0	%100
8	M4	Z	-15.99	-15.99	0	%100
9	M7	X	-5.898	-5.898	0	%100
10	M7	Z	-10.216	-10.216	0	%100
11	M8	X	-1.495	-1.495	0	%100
12	M8	Z	-2.589	-2.589	0	%100
13	M9	X	-1.495	-1.495	0	%100
14	M9	Z	-2.589	-2.589	0	%100
15	M10	X	-3.743	-3.743	0	%100
16	M10	Z	-6.483	-6.483	0	%100
17	M11	X	-4.804	-4.804	0	%100
18	M11	Z	-8.321	-8.321	0	%100
19	M12	X	-4.804	-4.804	0	%100
20	M12	Z	-8.321	-8.321	0	%100
21	M13	X	-4.804	-4.804	0	%100
22	M13	Z	-8.321	-8.321	0	%100
23	M14	X	-4.804	-4.804	0	%100
24	M14	Z	-8.321	-8.321	0	%100
25	MP1A	X	-5.847	-5.847	0	%100
26	MP1A	Z	-10.127	-10.127	0	%100
27	M25	X	-5.845	-5.845	0	%100
28	M25	Z	-10.123	-10.123	0	%100
29	M26	X	-1.061	-1.061	0	%100
30	M26	Z	-1.838	-1.838	0	%100
31	MP3A	X	-5.847	-5.847	0	%100
32	MP3A	Z	-10.127	-10.127	0	%100
33	MP5A	X	-5.847	-5.847	0	%100
34	MP5A	Z	-10.127	-10.127	0	%100
35	MP2A	X	-5.847	-5.847	0	%100
36	MP2A	Z	-10.127	-10.127	0	%100
37	MP4A	X	-5.847	-5.847	0	%100
38	MP4A	Z	-10.127	-10.127	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-6.171	-6.171	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-6.171	-6.171	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-6.171	-6.171	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-6.171	-6.171	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.766	-3.766	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-2.764	-2.764	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-3.266	-3.266	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-3.266	-3.266	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-3.266	-3.266	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-3.266	-3.266	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	-4	-4	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-2.931	-2.931	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.028	-.028	0	%100
31	MP3A	X	0	0	0	%100
32	MP3A	Z	-4	-4	0	%100
33	MP5A	X	0	0	0	%100
34	MP5A	Z	-4	-4	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-4	-4	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-4	-4	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.314	2.314	0	%100
2	M1	Z	-4.008	-4.008	0	%100
3	M2	X	2.314	2.314	0	%100
4	M2	Z	-4.008	-4.008	0	%100
5	M3	X	2.314	2.314	0	%100
6	M3	Z	-4.008	-4.008	0	%100
7	M4	X	2.314	2.314	0	%100
8	M4	Z	-4.008	-4.008	0	%100
9	M7	X	1.883	1.883	0	%100
10	M7	Z	-3.261	-3.261	0	%100
11	M8	X	.449	.449	0	%100
12	M8	Z	-.778	-.778	0	%100
13	M9	X	.449	.449	0	%100
14	M9	Z	-.778	-.778	0	%100
15	M10	X	1.382	1.382	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
16	M10	Z	-2.394	-2.394	0	%100
17	M11	X	1.633	1.633	0	%100
18	M11	Z	-2.829	-2.829	0	%100
19	M12	X	1.633	1.633	0	%100
20	M12	Z	-2.829	-2.829	0	%100
21	M13	X	1.633	1.633	0	%100
22	M13	Z	-2.829	-2.829	0	%100
23	M14	X	1.633	1.633	0	%100
24	M14	Z	-2.829	-2.829	0	%100
25	MP1A	X	2	2	0	%100
26	MP1A	Z	-3.464	-3.464	0	%100
27	M25	X	.466	.466	0	%100
28	M25	Z	-.807	-.807	0	%100
29	M26	X	.651	.651	0	%100
30	M26	Z	-1.127	-1.127	0	%100
31	MP3A	X	2	2	0	%100
32	MP3A	Z	-3.464	-3.464	0	%100
33	MP5A	X	2	2	0	%100
34	MP5A	Z	-3.464	-3.464	0	%100
35	MP2A	X	2	2	0	%100
36	MP2A	Z	-3.464	-3.464	0	%100
37	MP4A	X	2	2	0	%100
38	MP4A	Z	-3.464	-3.464	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.336	1.336	0	%100
2	M1	Z	-.771	-.771	0	%100
3	M2	X	1.336	1.336	0	%100
4	M2	Z	-.771	-.771	0	%100
5	M3	X	1.336	1.336	0	%100
6	M3	Z	-.771	-.771	0	%100
7	M4	X	1.336	1.336	0	%100
8	M4	Z	-.771	-.771	0	%100
9	M7	X	3.261	3.261	0	%100
10	M7	Z	-1.883	-1.883	0	%100
11	M8	X	2.333	2.333	0	%100
12	M8	Z	-1.347	-1.347	0	%100
13	M9	X	2.333	2.333	0	%100
14	M9	Z	-1.347	-1.347	0	%100
15	M10	X	2.394	2.394	0	%100
16	M10	Z	-1.382	-1.382	0	%100
17	M11	X	2.829	2.829	0	%100
18	M11	Z	-1.633	-1.633	0	%100
19	M12	X	2.829	2.829	0	%100
20	M12	Z	-1.633	-1.633	0	%100
21	M13	X	2.829	2.829	0	%100
22	M13	Z	-1.633	-1.633	0	%100
23	M14	X	2.829	2.829	0	%100
24	M14	Z	-1.633	-1.633	0	%100
25	MP1A	X	3.464	3.464	0	%100
26	MP1A	Z	-2	-2	0	%100
27	M25	X	.001	.001	0	%100
28	M25	Z	-.00079	-.00079	0	%100
29	M26	X	2.836	2.836	0	%100
30	M26	Z	-1.637	-1.637	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	MP3A	X	3.464	3.464	0	%100
32	MP3A	Z	-2	-2	0	%100
33	MP5A	X	3.464	3.464	0	%100
34	MP5A	Z	-2	-2	0	%100
35	MP2A	X	3.464	3.464	0	%100
36	MP2A	Z	-2	-2	0	%100
37	MP4A	X	3.464	3.464	0	%100
38	MP4A	Z	-2	-2	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	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	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M7	X	3.766	3.766	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	3.592	3.592	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	3.592	3.592	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	2.764	2.764	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	3.266	3.266	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	3.266	3.266	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	3.266	3.266	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	3.266	3.266	0	%100
24	M14	Z	0	0	0	%100
25	MP1A	X	4	4	0	%100
26	MP1A	Z	0	0	0	%100
27	M25	X	1.07	1.07	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	3.973	3.973	0	%100
30	M26	Z	0	0	0	%100
31	MP3A	X	4	4	0	%100
32	MP3A	Z	0	0	0	%100
33	MP5A	X	4	4	0	%100
34	MP5A	Z	0	0	0	%100
35	MP2A	X	4	4	0	%100
36	MP2A	Z	0	0	0	%100
37	MP4A	X	4	4	0	%100
38	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.336	1.336	0	%100
2	M1	Z	.771	.771	0	%100
3	M2	X	1.336	1.336	0	%100
4	M2	Z	.771	.771	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	M3	X	1.336	1.336	0	%100
6	M3	Z	.771	.771	0	%100
7	M4	X	1.336	1.336	0	%100
8	M4	Z	.771	.771	0	%100
9	M7	X	3.261	3.261	0	%100
10	M7	Z	1.883	1.883	0	%100
11	M8	X	2.333	2.333	0	%100
12	M8	Z	1.347	1.347	0	%100
13	M9	X	2.333	2.333	0	%100
14	M9	Z	1.347	1.347	0	%100
15	M10	X	2.394	2.394	0	%100
16	M10	Z	1.382	1.382	0	%100
17	M11	X	2.829	2.829	0	%100
18	M11	Z	1.633	1.633	0	%100
19	M12	X	2.829	2.829	0	%100
20	M12	Z	1.633	1.633	0	%100
21	M13	X	2.829	2.829	0	%100
22	M13	Z	1.633	1.633	0	%100
23	M14	X	2.829	2.829	0	%100
24	M14	Z	1.633	1.633	0	%100
25	MP1A	X	3.464	3.464	0	%100
26	MP1A	Z	2	2	0	%100
27	M25	X	2.657	2.657	0	%100
28	M25	Z	1.534	1.534	0	%100
29	M26	X	2.337	2.337	0	%100
30	M26	Z	1.349	1.349	0	%100
31	MP3A	X	3.464	3.464	0	%100
32	MP3A	Z	2	2	0	%100
33	MP5A	X	3.464	3.464	0	%100
34	MP5A	Z	2	2	0	%100
35	MP2A	X	3.464	3.464	0	%100
36	MP2A	Z	2	2	0	%100
37	MP4A	X	3.464	3.464	0	%100
38	MP4A	Z	2	2	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.314	2.314	0	%100
2	M1	Z	4.008	4.008	0	%100
3	M2	X	2.314	2.314	0	%100
4	M2	Z	4.008	4.008	0	%100
5	M3	X	2.314	2.314	0	%100
6	M3	Z	4.008	4.008	0	%100
7	M4	X	2.314	2.314	0	%100
8	M4	Z	4.008	4.008	0	%100
9	M7	X	1.883	1.883	0	%100
10	M7	Z	3.261	3.261	0	%100
11	M8	X	.449	.449	0	%100
12	M8	Z	.778	.778	0	%100
13	M9	X	.449	.449	0	%100
14	M9	Z	.778	.778	0	%100
15	M10	X	1.382	1.382	0	%100
16	M10	Z	2.394	2.394	0	%100
17	M11	X	1.633	1.633	0	%100
18	M11	Z	2.829	2.829	0	%100
19	M12	X	1.633	1.633	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
20	M12	Z	2.829	2.829	0	%100
21	M13	X	1.633	1.633	0	%100
22	M13	Z	2.829	2.829	0	%100
23	M14	X	1.633	1.633	0	%100
24	M14	Z	2.829	2.829	0	%100
25	MP1A	X	2	2	0	%100
26	MP1A	Z	3.464	3.464	0	%100
27	M25	X	1.999	1.999	0	%100
28	M25	Z	3.463	3.463	0	%100
29	M26	X	.363	.363	0	%100
30	M26	Z	.629	.629	0	%100
31	MP3A	X	2	2	0	%100
32	MP3A	Z	3.464	3.464	0	%100
33	MP5A	X	2	2	0	%100
34	MP5A	Z	3.464	3.464	0	%100
35	MP2A	X	2	2	0	%100
36	MP2A	Z	3.464	3.464	0	%100
37	MP4A	X	2	2	0	%100
38	MP4A	Z	3.464	3.464	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	6.171	6.171	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	6.171	6.171	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	6.171	6.171	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	6.171	6.171	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.766	3.766	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	2.764	2.764	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	3.266	3.266	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	3.266	3.266	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	3.266	3.266	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	3.266	3.266	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	4	4	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	2.931	2.931	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.028	.028	0	%100
31	MP3A	X	0	0	0	%100
32	MP3A	Z	4	4	0	%100
33	MP5A	X	0	0	0	%100
34	MP5A	Z	4	4	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
35	MP2A	X	0	0	0	%100
36	MP2A	Z	4	4	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	4	4	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.314	-2.314	0	%100
2	M1	Z	4.008	4.008	0	%100
3	M2	X	-2.314	-2.314	0	%100
4	M2	Z	4.008	4.008	0	%100
5	M3	X	-2.314	-2.314	0	%100
6	M3	Z	4.008	4.008	0	%100
7	M4	X	-2.314	-2.314	0	%100
8	M4	Z	4.008	4.008	0	%100
9	M7	X	-1.883	-1.883	0	%100
10	M7	Z	3.261	3.261	0	%100
11	M8	X	-.449	-.449	0	%100
12	M8	Z	.778	.778	0	%100
13	M9	X	-.449	-.449	0	%100
14	M9	Z	.778	.778	0	%100
15	M10	X	-1.382	-1.382	0	%100
16	M10	Z	2.394	2.394	0	%100
17	M11	X	-1.633	-1.633	0	%100
18	M11	Z	2.829	2.829	0	%100
19	M12	X	-1.633	-1.633	0	%100
20	M12	Z	2.829	2.829	0	%100
21	M13	X	-1.633	-1.633	0	%100
22	M13	Z	2.829	2.829	0	%100
23	M14	X	-1.633	-1.633	0	%100
24	M14	Z	2.829	2.829	0	%100
25	MP1A	X	-2	-2	0	%100
26	MP1A	Z	3.464	3.464	0	%100
27	M25	X	-.466	-.466	0	%100
28	M25	Z	.807	.807	0	%100
29	M26	X	-.651	-.651	0	%100
30	M26	Z	1.127	1.127	0	%100
31	MP3A	X	-2	-2	0	%100
32	MP3A	Z	3.464	3.464	0	%100
33	MP5A	X	-2	-2	0	%100
34	MP5A	Z	3.464	3.464	0	%100
35	MP2A	X	-2	-2	0	%100
36	MP2A	Z	3.464	3.464	0	%100
37	MP4A	X	-2	-2	0	%100
38	MP4A	Z	3.464	3.464	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.336	-1.336	0	%100
2	M1	Z	.771	.771	0	%100
3	M2	X	-1.336	-1.336	0	%100
4	M2	Z	.771	.771	0	%100
5	M3	X	-1.336	-1.336	0	%100
6	M3	Z	.771	.771	0	%100
7	M4	X	-1.336	-1.336	0	%100
8	M4	Z	.771	.771	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	M7	X	-3.261	-3.261	0	%100
10	M7	Z	1.883	1.883	0	%100
11	M8	X	-2.333	-2.333	0	%100
12	M8	Z	1.347	1.347	0	%100
13	M9	X	-2.333	-2.333	0	%100
14	M9	Z	1.347	1.347	0	%100
15	M10	X	-2.394	-2.394	0	%100
16	M10	Z	1.382	1.382	0	%100
17	M11	X	-2.829	-2.829	0	%100
18	M11	Z	1.633	1.633	0	%100
19	M12	X	-2.829	-2.829	0	%100
20	M12	Z	1.633	1.633	0	%100
21	M13	X	-2.829	-2.829	0	%100
22	M13	Z	1.633	1.633	0	%100
23	M14	X	-2.829	-2.829	0	%100
24	M14	Z	1.633	1.633	0	%100
25	MP1A	X	-3.464	-3.464	0	%100
26	MP1A	Z	2	2	0	%100
27	M25	X	-.001	-.001	0	%100
28	M25	Z	.00079	.00079	0	%100
29	M26	X	-2.836	-2.836	0	%100
30	M26	Z	1.637	1.637	0	%100
31	MP3A	X	-3.464	-3.464	0	%100
32	MP3A	Z	2	2	0	%100
33	MP5A	X	-3.464	-3.464	0	%100
34	MP5A	Z	2	2	0	%100
35	MP2A	X	-3.464	-3.464	0	%100
36	MP2A	Z	2	2	0	%100
37	MP4A	X	-3.464	-3.464	0	%100
38	MP4A	Z	2	2	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	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	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M7	X	-3.766	-3.766	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	-3.592	-3.592	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-3.592	-3.592	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-2.764	-2.764	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-3.266	-3.266	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-3.266	-3.266	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-3.266	-3.266	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-3.266	-3.266	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
24	M14	Z	0	0	0	%100
25	MP1A	X	-4	-4	0	%100
26	MP1A	Z	0	0	0	%100
27	M25	X	-1.07	-1.07	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-3.973	-3.973	0	%100
30	M26	Z	0	0	0	%100
31	MP3A	X	-4	-4	0	%100
32	MP3A	Z	0	0	0	%100
33	MP5A	X	-4	-4	0	%100
34	MP5A	Z	0	0	0	%100
35	MP2A	X	-4	-4	0	%100
36	MP2A	Z	0	0	0	%100
37	MP4A	X	-4	-4	0	%100
38	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.336	-1.336	0	%100
2	M1	Z	-.771	-.771	0	%100
3	M2	X	-1.336	-1.336	0	%100
4	M2	Z	-.771	-.771	0	%100
5	M3	X	-1.336	-1.336	0	%100
6	M3	Z	-.771	-.771	0	%100
7	M4	X	-1.336	-1.336	0	%100
8	M4	Z	-.771	-.771	0	%100
9	M7	X	-3.261	-3.261	0	%100
10	M7	Z	-1.883	-1.883	0	%100
11	M8	X	-2.333	-2.333	0	%100
12	M8	Z	-1.347	-1.347	0	%100
13	M9	X	-2.333	-2.333	0	%100
14	M9	Z	-1.347	-1.347	0	%100
15	M10	X	-2.394	-2.394	0	%100
16	M10	Z	-1.382	-1.382	0	%100
17	M11	X	-2.829	-2.829	0	%100
18	M11	Z	-1.633	-1.633	0	%100
19	M12	X	-2.829	-2.829	0	%100
20	M12	Z	-1.633	-1.633	0	%100
21	M13	X	-2.829	-2.829	0	%100
22	M13	Z	-1.633	-1.633	0	%100
23	M14	X	-2.829	-2.829	0	%100
24	M14	Z	-1.633	-1.633	0	%100
25	MP1A	X	-3.464	-3.464	0	%100
26	MP1A	Z	-2	-2	0	%100
27	M25	X	-2.657	-2.657	0	%100
28	M25	Z	-1.534	-1.534	0	%100
29	M26	X	-2.337	-2.337	0	%100
30	M26	Z	-1.349	-1.349	0	%100
31	MP3A	X	-3.464	-3.464	0	%100
32	MP3A	Z	-2	-2	0	%100
33	MP5A	X	-3.464	-3.464	0	%100
34	MP5A	Z	-2	-2	0	%100
35	MP2A	X	-3.464	-3.464	0	%100
36	MP2A	Z	-2	-2	0	%100
37	MP4A	X	-3.464	-3.464	0	%100
38	MP4A	Z	-2	-2	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.314	-2.314	0	%100
2	M1	Z	-4.008	-4.008	0	%100
3	M2	X	-2.314	-2.314	0	%100
4	M2	Z	-4.008	-4.008	0	%100
5	M3	X	-2.314	-2.314	0	%100
6	M3	Z	-4.008	-4.008	0	%100
7	M4	X	-2.314	-2.314	0	%100
8	M4	Z	-4.008	-4.008	0	%100
9	M7	X	-1.883	-1.883	0	%100
10	M7	Z	-3.261	-3.261	0	%100
11	M8	X	-.449	-.449	0	%100
12	M8	Z	-.778	-.778	0	%100
13	M9	X	-.449	-.449	0	%100
14	M9	Z	-.778	-.778	0	%100
15	M10	X	-1.382	-1.382	0	%100
16	M10	Z	-2.394	-2.394	0	%100
17	M11	X	-1.633	-1.633	0	%100
18	M11	Z	-2.829	-2.829	0	%100
19	M12	X	-1.633	-1.633	0	%100
20	M12	Z	-2.829	-2.829	0	%100
21	M13	X	-1.633	-1.633	0	%100
22	M13	Z	-2.829	-2.829	0	%100
23	M14	X	-1.633	-1.633	0	%100
24	M14	Z	-2.829	-2.829	0	%100
25	MP1A	X	-2	-2	0	%100
26	MP1A	Z	-3.464	-3.464	0	%100
27	M25	X	-1.999	-1.999	0	%100
28	M25	Z	-3.463	-3.463	0	%100
29	M26	X	-.363	-.363	0	%100
30	M26	Z	-.629	-.629	0	%100
31	MP3A	X	-2	-2	0	%100
32	MP3A	Z	-3.464	-3.464	0	%100
33	MP5A	X	-2	-2	0	%100
34	MP5A	Z	-3.464	-3.464	0	%100
35	MP2A	X	-2	-2	0	%100
36	MP2A	Z	-3.464	-3.464	0	%100
37	MP4A	X	-2	-2	0	%100
38	MP4A	Z	-3.464	-3.464	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-1.489	-1.489	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.489	-1.489	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.489	-1.489	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-1.489	-1.489	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-.713	-.713	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
16	M10	Z	-.453	-.453	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-.581	-.581	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-.581	-.581	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-.581	-.581	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-.581	-.581	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	-.707	-.707	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.518	-.518	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-.005	-.005	0	%100
31	MP3A	X	0	0	0	%100
32	MP3A	Z	-.707	-.707	0	%100
33	MP5A	X	0	0	0	%100
34	MP5A	Z	-.707	-.707	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-.707	-.707	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.707	-.707	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.558	.558	0	%100
2	M1	Z	-.967	-.967	0	%100
3	M2	X	.558	.558	0	%100
4	M2	Z	-.967	-.967	0	%100
5	M3	X	.558	.558	0	%100
6	M3	Z	-.967	-.967	0	%100
7	M4	X	.558	.558	0	%100
8	M4	Z	-.967	-.967	0	%100
9	M7	X	.357	.357	0	%100
10	M7	Z	-.618	-.618	0	%100
11	M8	X	.09	.09	0	%100
12	M8	Z	-.157	-.157	0	%100
13	M9	X	.09	.09	0	%100
14	M9	Z	-.157	-.157	0	%100
15	M10	X	.226	.226	0	%100
16	M10	Z	-.392	-.392	0	%100
17	M11	X	.29	.29	0	%100
18	M11	Z	-.503	-.503	0	%100
19	M12	X	.29	.29	0	%100
20	M12	Z	-.503	-.503	0	%100
21	M13	X	.29	.29	0	%100
22	M13	Z	-.503	-.503	0	%100
23	M14	X	.29	.29	0	%100
24	M14	Z	-.503	-.503	0	%100
25	MP1A	X	.354	.354	0	%100
26	MP1A	Z	-.612	-.612	0	%100
27	M25	X	.082	.082	0	%100
28	M25	Z	-.143	-.143	0	%100
29	M26	X	.115	.115	0	%100
30	M26	Z	-.199	-.199	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	MP3A	X	.354	.354	0	%100
32	MP3A	Z	-.612	-.612	0	%100
33	MP5A	X	.354	.354	0	%100
34	MP5A	Z	-.612	-.612	0	%100
35	MP2A	X	.354	.354	0	%100
36	MP2A	Z	-.612	-.612	0	%100
37	MP4A	X	.354	.354	0	%100
38	MP4A	Z	-.612	-.612	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.322	.322	0	%100
2	M1	Z	-.186	-.186	0	%100
3	M2	X	.322	.322	0	%100
4	M2	Z	-.186	-.186	0	%100
5	M3	X	.322	.322	0	%100
6	M3	Z	-.186	-.186	0	%100
7	M4	X	.322	.322	0	%100
8	M4	Z	-.186	-.186	0	%100
9	M7	X	.618	.618	0	%100
10	M7	Z	-.357	-.357	0	%100
11	M8	X	.47	.47	0	%100
12	M8	Z	-.271	-.271	0	%100
13	M9	X	.47	.47	0	%100
14	M9	Z	-.271	-.271	0	%100
15	M10	X	.392	.392	0	%100
16	M10	Z	-.226	-.226	0	%100
17	M11	X	.503	.503	0	%100
18	M11	Z	-.29	-.29	0	%100
19	M12	X	.503	.503	0	%100
20	M12	Z	-.29	-.29	0	%100
21	M13	X	.503	.503	0	%100
22	M13	Z	-.29	-.29	0	%100
23	M14	X	.503	.503	0	%100
24	M14	Z	-.29	-.29	0	%100
25	MP1A	X	.612	.612	0	%100
26	MP1A	Z	-.354	-.354	0	%100
27	M25	X	.000242	.000242	0	%100
28	M25	Z	-.00014	-.00014	0	%100
29	M26	X	.501	.501	0	%100
30	M26	Z	-.289	-.289	0	%100
31	MP3A	X	.612	.612	0	%100
32	MP3A	Z	-.354	-.354	0	%100
33	MP5A	X	.612	.612	0	%100
34	MP5A	Z	-.354	-.354	0	%100
35	MP2A	X	.612	.612	0	%100
36	MP2A	Z	-.354	-.354	0	%100
37	MP4A	X	.612	.612	0	%100
38	MP4A	Z	-.354	-.354	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M7	X	.713	.713	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	.723	.723	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	.723	.723	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	.453	.453	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	.581	.581	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.581	.581	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	.581	.581	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	.581	.581	0	%100
24	M14	Z	0	0	0	%100
25	MP1A	X	.707	.707	0	%100
26	MP1A	Z	0	0	0	%100
27	M25	X	.189	.189	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	.702	.702	0	%100
30	M26	Z	0	0	0	%100
31	MP3A	X	.707	.707	0	%100
32	MP3A	Z	0	0	0	%100
33	MP5A	X	.707	.707	0	%100
34	MP5A	Z	0	0	0	%100
35	MP2A	X	.707	.707	0	%100
36	MP2A	Z	0	0	0	%100
37	MP4A	X	.707	.707	0	%100
38	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.322	.322	0	%100
2	M1	Z	.186	.186	0	%100
3	M2	X	.322	.322	0	%100
4	M2	Z	.186	.186	0	%100
5	M3	X	.322	.322	0	%100
6	M3	Z	.186	.186	0	%100
7	M4	X	.322	.322	0	%100
8	M4	Z	.186	.186	0	%100
9	M7	X	.618	.618	0	%100
10	M7	Z	.357	.357	0	%100
11	M8	X	.47	.47	0	%100
12	M8	Z	.271	.271	0	%100
13	M9	X	.47	.47	0	%100
14	M9	Z	.271	.271	0	%100
15	M10	X	.392	.392	0	%100
16	M10	Z	.226	.226	0	%100
17	M11	X	.503	.503	0	%100
18	M11	Z	.29	.29	0	%100
19	M12	X	.503	.503	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
20	M12	Z	.29	.29	0	%100
21	M13	X	.503	.503	0	%100
22	M13	Z	.29	.29	0	%100
23	M14	X	.503	.503	0	%100
24	M14	Z	.29	.29	0	%100
25	MP1A	X	.612	.612	0	%100
26	MP1A	Z	.354	.354	0	%100
27	M25	X	.47	.47	0	%100
28	M25	Z	.271	.271	0	%100
29	M26	X	.413	.413	0	%100
30	M26	Z	.238	.238	0	%100
31	MP3A	X	.612	.612	0	%100
32	MP3A	Z	.354	.354	0	%100
33	MP5A	X	.612	.612	0	%100
34	MP5A	Z	.354	.354	0	%100
35	MP2A	X	.612	.612	0	%100
36	MP2A	Z	.354	.354	0	%100
37	MP4A	X	.612	.612	0	%100
38	MP4A	Z	.354	.354	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.558	.558	0	%100
2	M1	Z	.967	.967	0	%100
3	M2	X	.558	.558	0	%100
4	M2	Z	.967	.967	0	%100
5	M3	X	.558	.558	0	%100
6	M3	Z	.967	.967	0	%100
7	M4	X	.558	.558	0	%100
8	M4	Z	.967	.967	0	%100
9	M7	X	.357	.357	0	%100
10	M7	Z	.618	.618	0	%100
11	M8	X	.09	.09	0	%100
12	M8	Z	.157	.157	0	%100
13	M9	X	.09	.09	0	%100
14	M9	Z	.157	.157	0	%100
15	M10	X	.226	.226	0	%100
16	M10	Z	.392	.392	0	%100
17	M11	X	.29	.29	0	%100
18	M11	Z	.503	.503	0	%100
19	M12	X	.29	.29	0	%100
20	M12	Z	.503	.503	0	%100
21	M13	X	.29	.29	0	%100
22	M13	Z	.503	.503	0	%100
23	M14	X	.29	.29	0	%100
24	M14	Z	.503	.503	0	%100
25	MP1A	X	.354	.354	0	%100
26	MP1A	Z	.612	.612	0	%100
27	M25	X	.353	.353	0	%100
28	M25	Z	.612	.612	0	%100
29	M26	X	.064	.064	0	%100
30	M26	Z	.111	.111	0	%100
31	MP3A	X	.354	.354	0	%100
32	MP3A	Z	.612	.612	0	%100
33	MP5A	X	.354	.354	0	%100
34	MP5A	Z	.612	.612	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
35	MP2A	X	.354	.354	0	%100
36	MP2A	Z	.612	.612	0	%100
37	MP4A	X	.354	.354	0	%100
38	MP4A	Z	.612	.612	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	1.489	1.489	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.489	1.489	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.489	1.489	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	1.489	1.489	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.713	.713	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	.453	.453	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	.581	.581	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	.581	.581	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	.581	.581	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	.581	.581	0	%100
25	MP1A	X	0	0	0	%100
26	MP1A	Z	.707	.707	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.518	.518	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.005	.005	0	%100
31	MP3A	X	0	0	0	%100
32	MP3A	Z	.707	.707	0	%100
33	MP5A	X	0	0	0	%100
34	MP5A	Z	.707	.707	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	.707	.707	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.707	.707	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.558	-.558	0	%100
2	M1	Z	.967	.967	0	%100
3	M2	X	-.558	-.558	0	%100
4	M2	Z	.967	.967	0	%100
5	M3	X	-.558	-.558	0	%100
6	M3	Z	.967	.967	0	%100
7	M4	X	-.558	-.558	0	%100
8	M4	Z	.967	.967	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	M7	X	-.357	-.357	0	%100
10	M7	Z	.618	.618	0	%100
11	M8	X	-.09	-.09	0	%100
12	M8	Z	.157	.157	0	%100
13	M9	X	-.09	-.09	0	%100
14	M9	Z	.157	.157	0	%100
15	M10	X	-.226	-.226	0	%100
16	M10	Z	.392	.392	0	%100
17	M11	X	-.29	-.29	0	%100
18	M11	Z	.503	.503	0	%100
19	M12	X	-.29	-.29	0	%100
20	M12	Z	.503	.503	0	%100
21	M13	X	-.29	-.29	0	%100
22	M13	Z	.503	.503	0	%100
23	M14	X	-.29	-.29	0	%100
24	M14	Z	.503	.503	0	%100
25	MP1A	X	-.354	-.354	0	%100
26	MP1A	Z	.612	.612	0	%100
27	M25	X	-.082	-.082	0	%100
28	M25	Z	.143	.143	0	%100
29	M26	X	-.115	-.115	0	%100
30	M26	Z	.199	.199	0	%100
31	MP3A	X	-.354	-.354	0	%100
32	MP3A	Z	.612	.612	0	%100
33	MP5A	X	-.354	-.354	0	%100
34	MP5A	Z	.612	.612	0	%100
35	MP2A	X	-.354	-.354	0	%100
36	MP2A	Z	.612	.612	0	%100
37	MP4A	X	-.354	-.354	0	%100
38	MP4A	Z	.612	.612	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.322	-.322	0	%100
2	M1	Z	.186	.186	0	%100
3	M2	X	-.322	-.322	0	%100
4	M2	Z	.186	.186	0	%100
5	M3	X	-.322	-.322	0	%100
6	M3	Z	.186	.186	0	%100
7	M4	X	-.322	-.322	0	%100
8	M4	Z	.186	.186	0	%100
9	M7	X	-.618	-.618	0	%100
10	M7	Z	.357	.357	0	%100
11	M8	X	-.47	-.47	0	%100
12	M8	Z	.271	.271	0	%100
13	M9	X	-.47	-.47	0	%100
14	M9	Z	.271	.271	0	%100
15	M10	X	-.392	-.392	0	%100
16	M10	Z	.226	.226	0	%100
17	M11	X	-.503	-.503	0	%100
18	M11	Z	.29	.29	0	%100
19	M12	X	-.503	-.503	0	%100
20	M12	Z	.29	.29	0	%100
21	M13	X	-.503	-.503	0	%100
22	M13	Z	.29	.29	0	%100
23	M14	X	-.503	-.503	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

June 29, 2021
 4:45 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
24	M14	Z	.29	.29	0	%100
25	MP1A	X	-.612	-.612	0	%100
26	MP1A	Z	.354	.354	0	%100
27	M25	X	-.000242	-.000242	0	%100
28	M25	Z	.00014	.00014	0	%100
29	M26	X	-.501	-.501	0	%100
30	M26	Z	.289	.289	0	%100
31	MP3A	X	-.612	-.612	0	%100
32	MP3A	Z	.354	.354	0	%100
33	MP5A	X	-.612	-.612	0	%100
34	MP5A	Z	.354	.354	0	%100
35	MP2A	X	-.612	-.612	0	%100
36	MP2A	Z	.354	.354	0	%100
37	MP4A	X	-.612	-.612	0	%100
38	MP4A	Z	.354	.354	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	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	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M7	X	-.713	-.713	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	-.723	-.723	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-.723	-.723	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-.453	-.453	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-.581	-.581	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.581	-.581	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-.581	-.581	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-.581	-.581	0	%100
24	M14	Z	0	0	0	%100
25	MP1A	X	-.707	-.707	0	%100
26	MP1A	Z	0	0	0	%100
27	M25	X	-.189	-.189	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-.702	-.702	0	%100
30	M26	Z	0	0	0	%100
31	MP3A	X	-.707	-.707	0	%100
32	MP3A	Z	0	0	0	%100
33	MP5A	X	-.707	-.707	0	%100
34	MP5A	Z	0	0	0	%100
35	MP2A	X	-.707	-.707	0	%100
36	MP2A	Z	0	0	0	%100
37	MP4A	X	-.707	-.707	0	%100
38	MP4A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.322	-.322	0	%100
2	M1	Z	-.186	-.186	0	%100
3	M2	X	-.322	-.322	0	%100
4	M2	Z	-.186	-.186	0	%100
5	M3	X	-.322	-.322	0	%100
6	M3	Z	-.186	-.186	0	%100
7	M4	X	-.322	-.322	0	%100
8	M4	Z	-.186	-.186	0	%100
9	M7	X	-.618	-.618	0	%100
10	M7	Z	-.357	-.357	0	%100
11	M8	X	-.47	-.47	0	%100
12	M8	Z	-.271	-.271	0	%100
13	M9	X	-.47	-.47	0	%100
14	M9	Z	-.271	-.271	0	%100
15	M10	X	-.392	-.392	0	%100
16	M10	Z	-.226	-.226	0	%100
17	M11	X	-.503	-.503	0	%100
18	M11	Z	-.29	-.29	0	%100
19	M12	X	-.503	-.503	0	%100
20	M12	Z	-.29	-.29	0	%100
21	M13	X	-.503	-.503	0	%100
22	M13	Z	-.29	-.29	0	%100
23	M14	X	-.503	-.503	0	%100
24	M14	Z	-.29	-.29	0	%100
25	MP1A	X	-.612	-.612	0	%100
26	MP1A	Z	-.354	-.354	0	%100
27	M25	X	-.47	-.47	0	%100
28	M25	Z	-.271	-.271	0	%100
29	M26	X	-.413	-.413	0	%100
30	M26	Z	-.238	-.238	0	%100
31	MP3A	X	-.612	-.612	0	%100
32	MP3A	Z	-.354	-.354	0	%100
33	MP5A	X	-.612	-.612	0	%100
34	MP5A	Z	-.354	-.354	0	%100
35	MP2A	X	-.612	-.612	0	%100
36	MP2A	Z	-.354	-.354	0	%100
37	MP4A	X	-.612	-.612	0	%100
38	MP4A	Z	-.354	-.354	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.558	-.558	0	%100
2	M1	Z	-.967	-.967	0	%100
3	M2	X	-.558	-.558	0	%100
4	M2	Z	-.967	-.967	0	%100
5	M3	X	-.558	-.558	0	%100
6	M3	Z	-.967	-.967	0	%100
7	M4	X	-.558	-.558	0	%100
8	M4	Z	-.967	-.967	0	%100
9	M7	X	-.357	-.357	0	%100
10	M7	Z	-.618	-.618	0	%100
11	M8	X	-.09	-.09	0	%100
12	M8	Z	-.157	-.157	0	%100
13	M9	X	-.09	-.09	0	%100
14	M9	Z	-.157	-.157	0	%100
15	M10	X	-.226	-.226	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
16	M10	Z	-.392	-.392	0	%100
17	M11	X	-.29	-.29	0	%100
18	M11	Z	-.503	-.503	0	%100
19	M12	X	-.29	-.29	0	%100
20	M12	Z	-.503	-.503	0	%100
21	M13	X	-.29	-.29	0	%100
22	M13	Z	-.503	-.503	0	%100
23	M14	X	-.29	-.29	0	%100
24	M14	Z	-.503	-.503	0	%100
25	MP1A	X	-.354	-.354	0	%100
26	MP1A	Z	-.612	-.612	0	%100
27	M25	X	-.353	-.353	0	%100
28	M25	Z	-.612	-.612	0	%100
29	M26	X	-.064	-.064	0	%100
30	M26	Z	-.111	-.111	0	%100
31	MP3A	X	-.354	-.354	0	%100
32	MP3A	Z	-.612	-.612	0	%100
33	MP5A	X	-.354	-.354	0	%100
34	MP5A	Z	-.612	-.612	0	%100
35	MP2A	X	-.354	-.354	0	%100
36	MP2A	Z	-.612	-.612	0	%100
37	MP4A	X	-.354	-.354	0	%100
38	MP4A	Z	-.612	-.612	0	%100

Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N72A	max	57.212	1	55.553	20	797.577	2	0	51	0	51
2		min	-58.476	7	-4.043	2	-798.037	8	0	1	0	1
3	N80	max	2261.843	11	1295.642	19	893.623	1	-.101	1	5.936	11
4		min	-2448.116	5	303.643	1	-4161.036	19	-.432	19	-6.279	5
5	N81	max	872.252	33	1267.38	13	3742.174	14	-.087	7	1.927	35
6		min	-496.136	50	260.961	7	1340.962	12	-.422	13	-1.32	5
7	N82A	max	784.329	7	48.472	18	502.524	1	0	51	0	51
8		min	-788.777	1	-6.014	12	-508.456	7	0	1	0	1
9	Totals:	max	2138.51	11	2545.679	23	3487.156	1				
10		min	-2138.509	5	1085.865	5	-3487.157	7				

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check L...	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M1	L3X3X4	.872	6.25	6	.348	5... z	17	19638.8...	46656	1.688	3.756	3... H2-1
2	M2	L3X3X4	.643	0	7	.180	... z	19	19638.8...	46656	1.688	3.756	3... H2-1
3	M3	L3X3X4	.660	5.273	35	.361	5... y	13	19638.8...	46656	1.688	3.502	1... H2-1
4	M4	L3X3X4	.407	0	24	.183	... y	13	19638.8...	46656	1.688	3.643	2... H2-1
5	M7	PIPE 3.0	.515	2.63	19	.291	2...	5	62054.35	65205	5.749	5.749	4... H1-1b
6	M8	HSS3X3X4	.652	0	5	.241	... z	5	95547.6...	101016	8.556	8.556	2... H1-1b
7	M9	HSS3X3X4	.344	2.667	17	.154	... y	5	95547.6...	101016	8.556	8.556	2... H1-1b
8	M10	PIPE 1.5	.779	0	18	.117	2...	17	22661.6...	23593.5	1.105	1.105	2... H1-1b
9	M11	PIPE 2.0	.372	3.042	50	.093	3...	16	28756.4...	32130	1.872	1.872	2... H1-1b



Company :
 Designer :
 Job Number :
 Model Name :

June 29, 2021
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Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

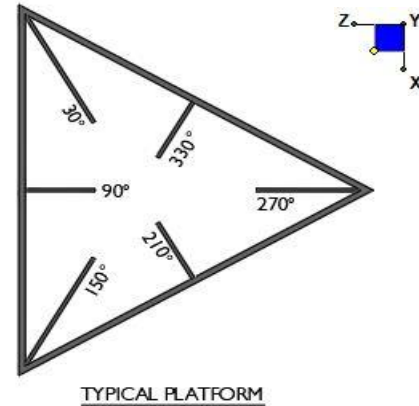
Member	Shape	Code Check	Loc[ft]	LC	Shear Check	L...Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
10	M12	PIPE 2.0	.239	0	50	.044	0	12	28756.4...	32130	1.872	1.872	2...H1-1b
11	M13	PIPE 2.0	.411	3.042	36	.099	3...	12	28756.4...	32130	1.872	1.872	2...H1-1b
12	M14	PIPE 2.0	.383	0	31	.182	0	2	28756.4...	32130	1.872	1.872	2...H1-1b
13	MP1A	PIPE 2.0	.245	1.5	2	.184	2.5	2	20866.7...	32130	1.872	1.872	1...H1-1b
14	M25	PIPE 2.0	.104	0	6	.006	7...	6	17824.9...	32130	1.872	1.872	1...H1-1b
15	M26	PIPE 2.0	.227	0	2	.008	0	4	6838.165	32130	1.872	1.872	2...H1-1b
16	MP3A	PIPE 2.0	.111	2.438	1	.057	2.5	7	20866.7...	32130	1.872	1.872	1...H1-1b
17	MP5A	PIPE 2.0	.288	2.5	12	.152	2...	5	20866.7...	32130	1.872	1.872	1...H1-1b
18	MP2A	PIPE 2.0	.832	3.427	7	.205	3.5	9	17855.0...	32130	1.872	1.872	1...H1-1b
19	MP4A	PIPE 2.0	.281	3.427	7	.066	3.5	12	17855.0...	32130	1.872	1.872	1...H1-1b



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
n80	90
n81	90



Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch) :

d_y (in) (Delta Y of typ. bolt config. sketch) :

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

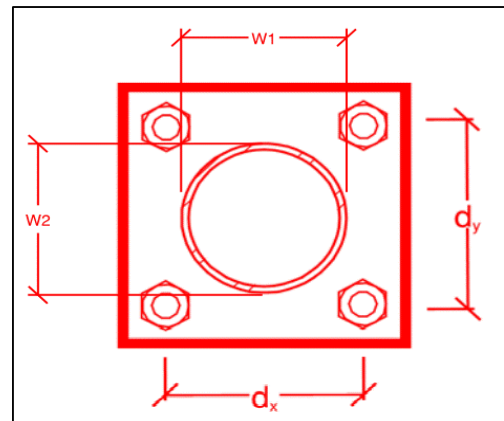
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
8
1.25
A307
0.5
21.9
5.8
5.9
3.8
92.3%*
37.5%



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

Base Requirements:

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

Photo Requirements:

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

- These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.



Certifying Individual:	Company	_____
	Name	_____
	Signature	_____







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








Issue:


Response:


Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos

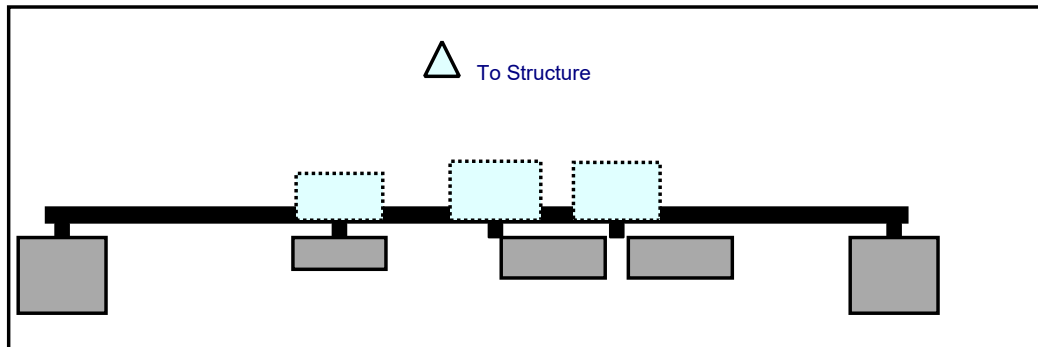
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop

 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present

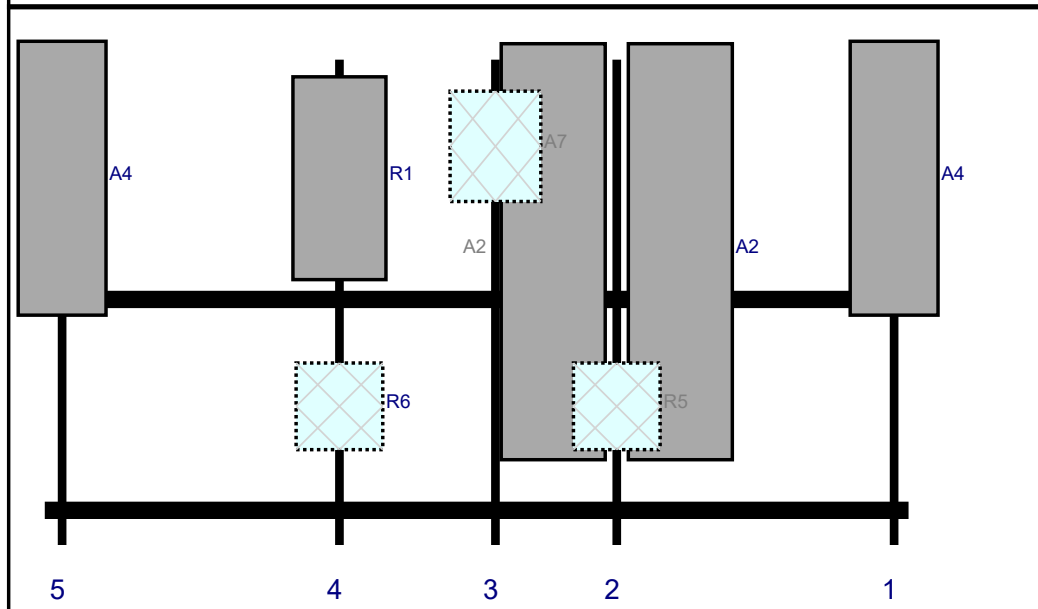
-  Certifications – Submission of this document including certifications

-  Specific Required Additional Photos

Plan View

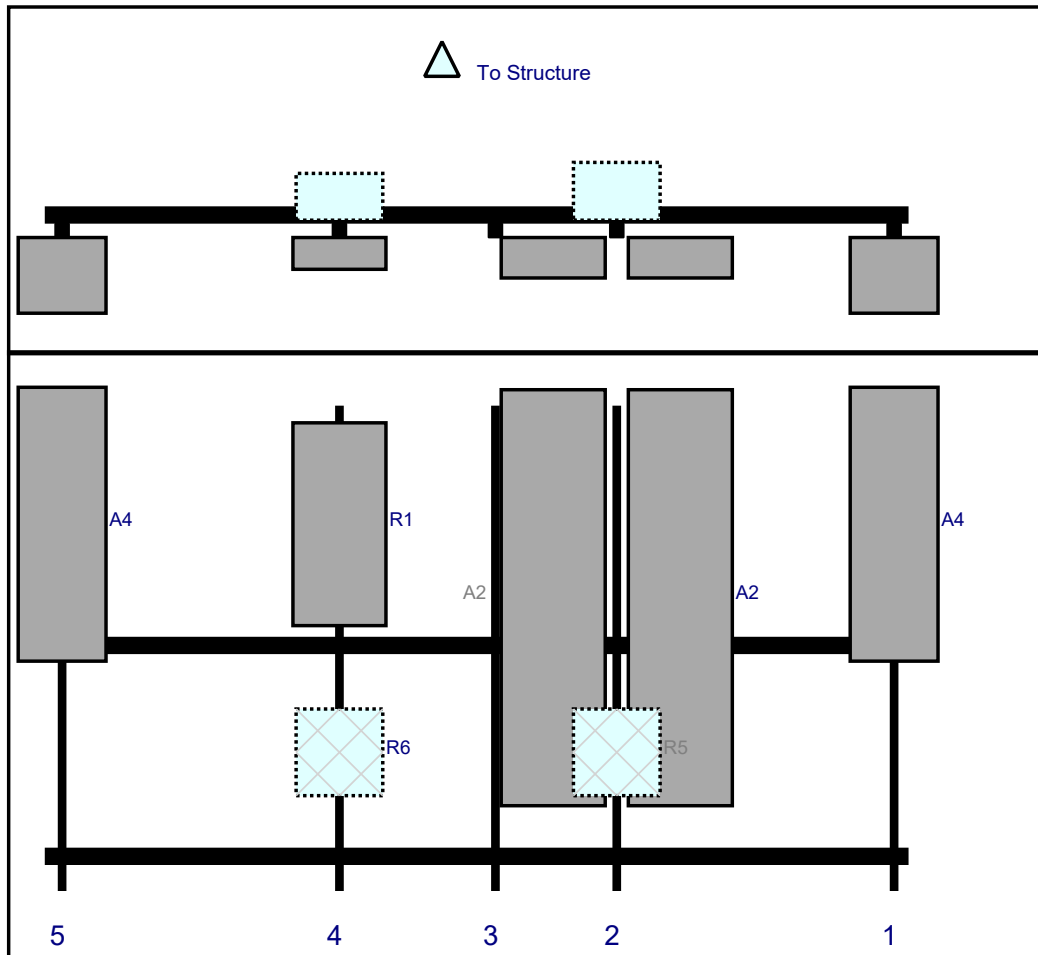


Front View
Looking at Structure



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
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	147	1	a	Front	20.52	0	Retained	03/30/2021
A2	JAHH-45B-R3B	72	18	99	2	a	Front	33.24	11	Retained	
A2	JAHH-45B-R3B	72	18	99	2	b	Front	33.24	-11	Retained	
R5	B2/B66A RRH-BR049	15	15	99	2	a	Behind	60	0	Retained	
A7	RRFDC-3315-PF-48	19.1	15.7	78	3	a	Behind	15	0	Retained	03/30/2021
R1	MT6407-77A	35.1	16.1	51	4	a	Front	20.52	0	Added	
R6	B5/B13 RRH-BR04C	15	15	51	4	a	Behind	60	0	Retained	
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	3	5	a	Front	20.52	0	Retained	03/30/2021

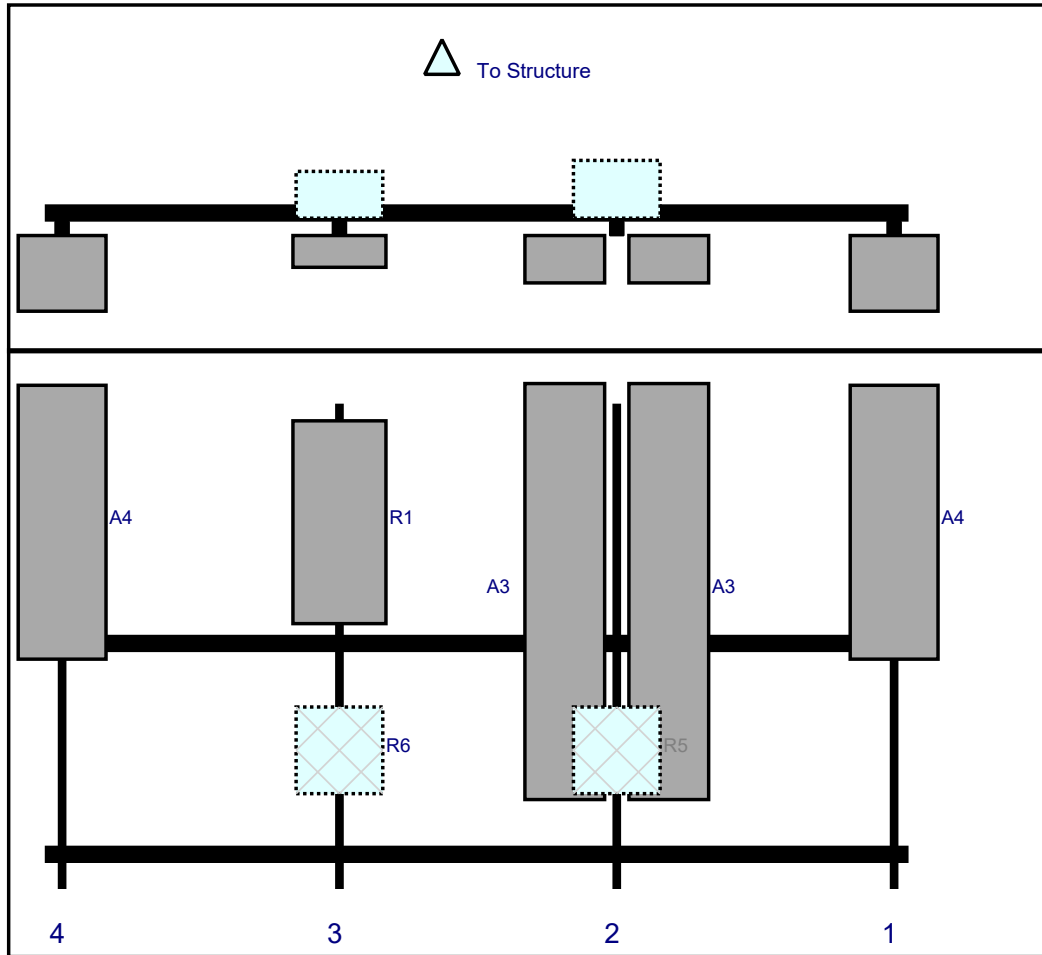
Plan View



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
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	147	1	a	Front	20.52	0	Retained	03/30/2021
A2	JAHH-45B-R3B	72	18	99	2	a	Front	33.24	11	Retained	
A2	JAHH-45B-R3B	72	18	99	2	b	Front	33.24	-11	Retained	
R5	B2/B66A RRH-BR049	15	15	99	2	a	Behind	60	0	Retained	
R1	MT6407-77A	35.1	16.1	51	4	a	Front	20.52	0	Added	
R6	B5/B13 RRH-BR04C	15	15	51	4	a	Behind	60	0	Retained	
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	3	5	a	Front	20.52	0	Retained	03/30/2021

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
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	147	1	a	Front	20.52	0	Retained	03/30/2021
A3	JAHH-65B-R3B	72	13.8	99	2	a	Front	32.52	9	Retained	
A3	JAHH-65B-R3B	72	13.8	99	2	b	Front	32.52	-9	Retained	
R5	B2/B66A RRH-BR049	15	15	99	2	a	Behind	60	0	Retained	
R1	MT6407-77A	35.1	16.1	51	3	a	Front	20.52	0	Added	
R6	B5/B13 RRH-BR04C	15	15	51	3	a	Behind	60	0	Retained	
A4	LPA-80063-4CF-EDIN-6	47.4	15.2	3	4	a	Front	20.52	0	Retained	03/30/2021

<u>Subject</u>		TIA-222-H Usage
<u>Site Information</u>	Site ID:	467465-VZW / KILLINGLY CT
	Site Name:	KILLINGLY CT
	Carrier Name:	Verizon Wireless
	Address:	1375 North Rd Killingly, Connecticut 06239 Windham County
	Latitude:	41.871500°
	Longitude:	-71.821528°
<u>Structure Information</u>	Tower Type:	300-Ft Self Support
	Mount Type:	12.46-Ft T-Frame

To Whom It May Concern,

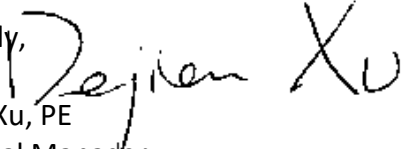
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

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

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

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

Sincerely,


Dejian Xu, PE
Technical Manager

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

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	751	4	977	3909	266	0.0020	0.5007	0.40%
VZW CDMA	878.49	2	445	889	266	0.0005	0.5857	0.08%
VZW Cellular	872.5	4	491	1963	266	0.0010	0.5817	0.17%
VZW PCS	1977.5	4	2155	8621	266	0.0044	1.0000	0.44%
VZW AWS	2120	4	2525	10101	266	0.0051	1.0000	0.51%
VZW CBAND	3730.08	4	6531	26125	266	0.0133	1.0000	1.33%
Total Percentage of Maximum Permissible Exposure								2.92%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

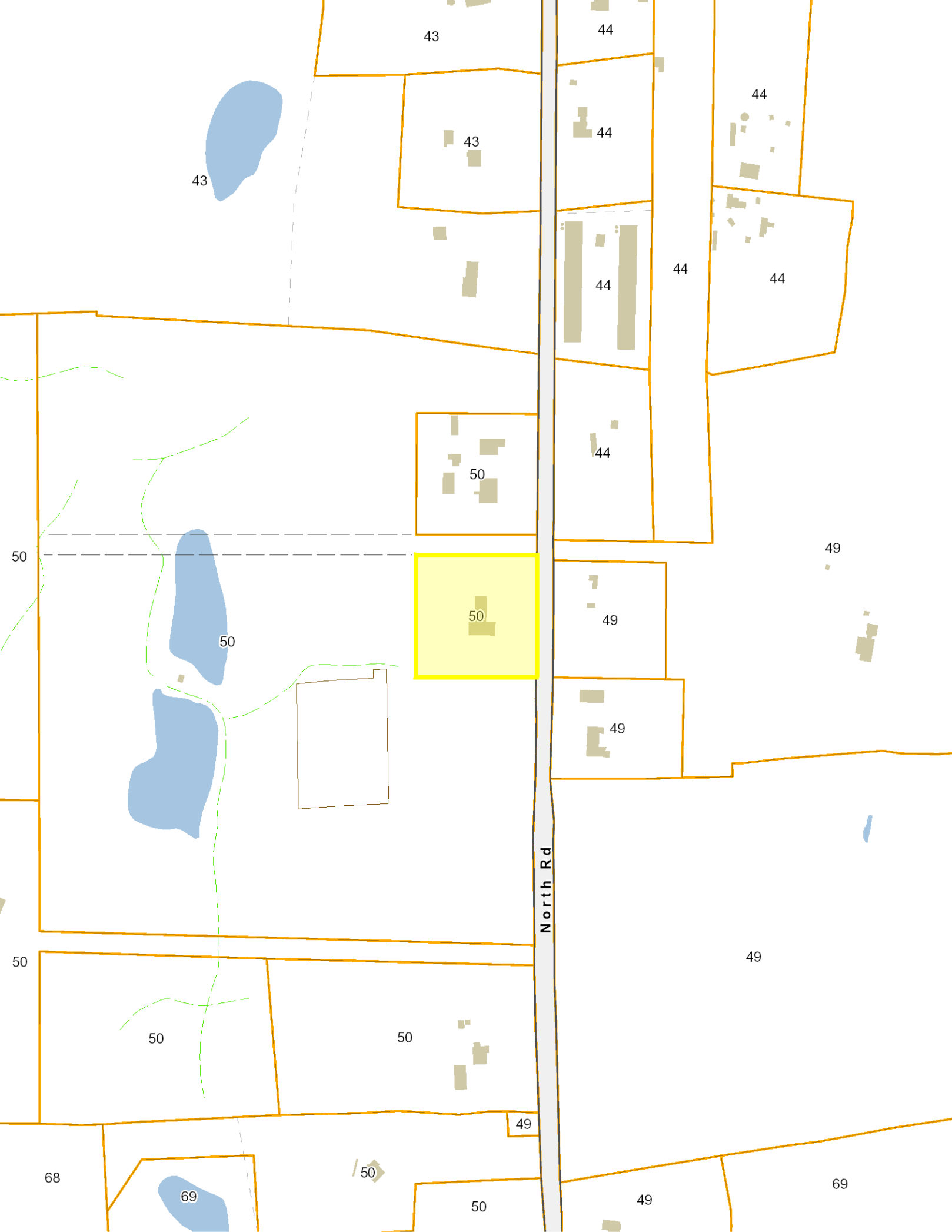
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2018.



Information on the Property Records for the Municipality of Killingly was last updated on 8/30/2021.



Parcel Information

Location:	1375 NORTH RD	Property Use:	School	Primary Use:	Rad/Tv TR M96
Unique ID:	72	Map Block Lot:	50-3	Acres:	2.07
490 Acres:	0.00	Zone:	RD	Volume / Page:	0772/0005
Developers Map / Lot:		Census:	9041-2006		

Value Information

	Appraised Value	Assessed Value
Land	67,870	47,530
Buildings	275,900	193,130
Detached Outbuildings	0	0

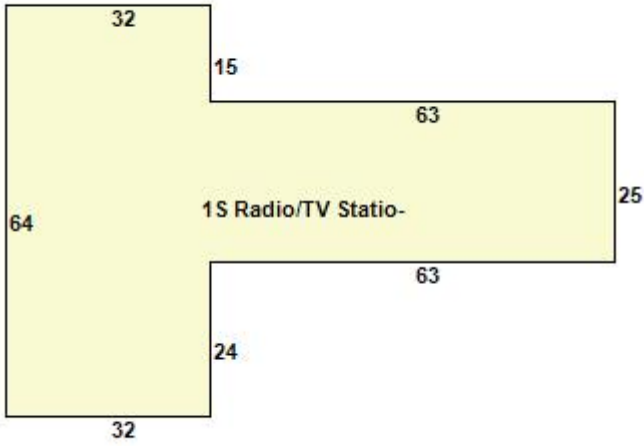
	Appraised Value	Assessed Value
Total	343,770	240,660

Owner's Information

Owner's Data

AMERICAN TOWERS INC
PO BOX 723597
ATLANTA, GA 31139

Building 1



Category:	Industrial	Use:	Radio/TV Station	GLA:	3,623
Stories:	1.00	Construction:	Wood Frame	Year Built:	1960
Heating:	None	Fuel:		Cooling Percent:	0
Siding:	Concr/Cinder	Roof Material:		Beds/Units:	0

Special Features

Attached Components

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Chain Fence	1960	6.00	240.00	1,440
Paving	1960	1.00	3,700.00	3,700
Cell Tower	1960	0.00	0.00	300

Owner History - Sales

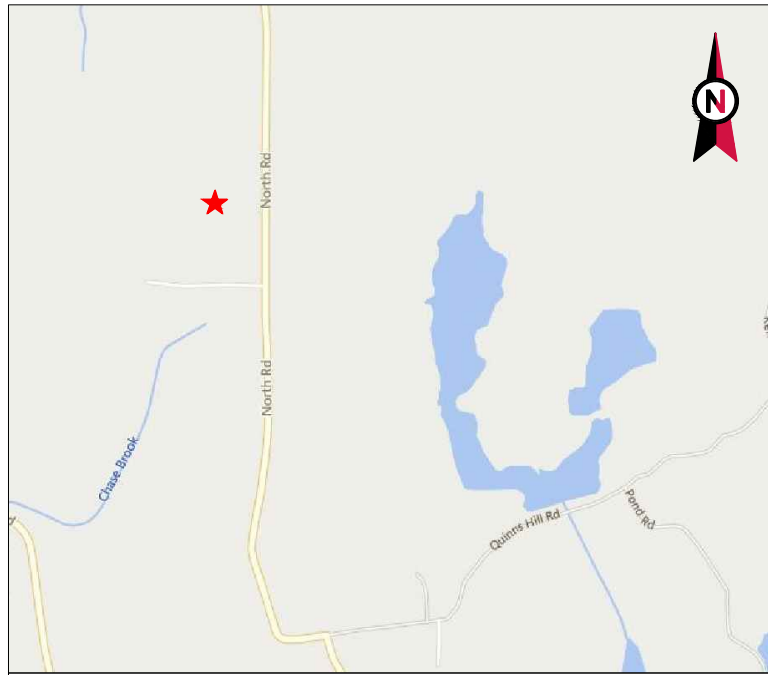
Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
AMERICAN TOWERS INC	0772	0005	02/16/2000		\$186,528

Building Permits

Permit Number	Permit Type	Date Opened	Reason
27869	T:BUSINESS PERSONAL PROPERTY	11/05/2020	UPGRADES TO TOWER - REMV & REPL 4 ANTENNA, ADDN 4 REMOTE RADIO UNITS, DIPLEXERS & CABLES
27112	T:BUSINESS PERSONAL PROPERTY	09/18/2019	INSTALL 6 REPL ANTENNAS, RRUS & OTHER ANCILLARY EQUIP & CABLING ON EXISTING TOWE
26263	T:COMMERCIAL REPLACT	08/21/2018	REPLACE EXISTING ANTENNAS WITH NEW ON EXISTING COMM TOWER ON EXISTING SPRINT RAD HEIGHT
26159	Building	07/09/2018	INSTALL TMOBILE CABINETS ON CONCRETE PAD W/ GENERATOR FOR EMERGENCY BACKUP POWER ANTENNA, EQUIPMENT
25690	T:BUSINESS PERSONAL PROPERTY	11/15/2017	REPL 6 ANTENNAE PANELS & ADD 6 REMOTE RADIO HEADS (VERIZON WIRELESS)
25460	Comm Renovations	08/09/2017	STRUCTURAL MODIFICATIONS TO EXISTING CELL TOWER
22122	T:BUSINESS PERSONAL PROPERTY	11/30/2012	ADD 13 NEW ANTENNAS & 6 RRH'S (NEXLINK GLOBAL)
20889	Addition	11/12/2010	BUILD OUT OF RM FOR CELLULAR EQUIP

Permit Number	Permit Type	Date Opened	Reason
20753	T:BUSINESS PERSONAL PROPERTY	08/31/2010	ADDN 6 ANTENNAS & ASSOC EQUIP INSIDE EXISTING BLDG & INSTALL 4X11 PAD FOR GENERATOR OUTSIDE BLDG
18646	T:BUSINESS PERSONAL PROPERTY	06/07/2007	INSTALL ANTENNAS
13234	Tank	08/27/1998	NVC TANK OUT
13017	Commercial	03/27/1998	NOTES

Information Published With Permission From The Assessor

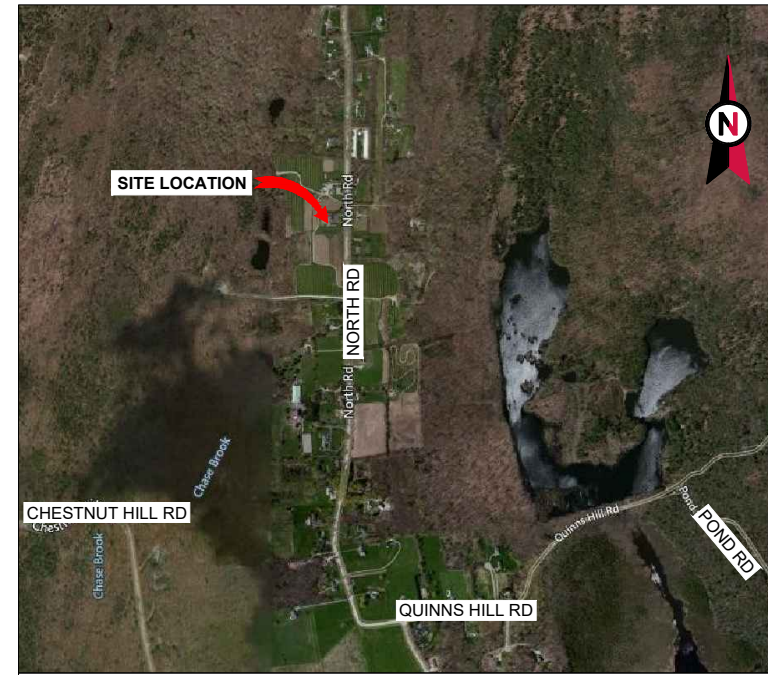


VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: EAST KILLINGLY NORTH
 ATC SITE NUMBER: 88011
 VERIZON WIRELESS SITE NAME: KILLINGLY CT
 VERIZON WIRELESS SITE NUMBER: 467465
 SITE ADDRESS: 1375 NORTH ROAD
 KILLINGLY, CT 06241



LOCATION MAP

**VERIZON WIRELESS
 ANTENNA AMENDMENT PLAN**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX					
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2015 INTERNATIONAL BUILDING CODE (IBC) 2. 2017 NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 1375 NORTH ROAD KILLINGLY, CT 06241 COUNTY: WINDHAM <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.8715 LONGITUDE: -71.821528 GROUND ELEVATION: 745' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL (3) ANTENNA(S) EXISTING (12) ANTENNA(S), (6) RRH(S), (1) OVP(S), (3) DIPEXER(S), (6) COAX CABLE(S), AND (1) HYBRID CABLE(S) TO REMAIN THE PROPOSED PROJECT DOES NOT INCLUDE ELECTRICAL SCOPE	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> POWER OF DESIGN GROUP 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 <u>PROPERTY OWNER:</u> AMERICAN TOWER 116 HUNTINGTON AVE BOSTON, MA 02116	<u>APPLICANT:</u> VERIZON WIRELESS 20 ALEXANDER DR, 2ND FLOOR WALLINGFORD, CT 06492	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLES TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION REMOVAL AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001	TITLE SHEET	0	8/10/2021	SM
			<u>PROJECT LOCATION DIRECTIONS</u> TAKE ROUTE 395 TO EXIT 97. AT END OF THE RAMP, TAKE A LEFT ONTO 44 EAST. AFTER YOU CROSS FIVE MILE RIVER, GO ABOUT ANOTHER .5 MILES AND TAKE A RIGHT ONTO EAST PUTNUM ROAD. AT THE 3RD STOP SIGN, TAKE A LEFT. LOOK FOR NORTH ROAD ON YOUR RIGHT. TAKE NORTH ROAD. TOWER IS ON THE RIGHT.	G-002	GENERAL NOTES	0	8/10/2021	SM
<u>UTILITY COMPANIES</u> POWER COMPANY: CT LIGHT & POWER PHONE: (800) 286-2000 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-8102			C-101	DETAILED SITE PLAN	0	8/10/2021	SM	
			C-201	TOWER ELEVATION	0	8/10/2021	SM	
			C-401	ANTENNA INFORMATION & SCHEDULE	0	8/10/2021	SM	
			C-501	CONSTRUCTION DETAILS	0	8/10/2021	SM	
			E-501	GROUNDING DETAILS	0	8/10/2021	SM	
			R-601	SUPPLEMENTAL				

AMERICAN TOWER®

POD
 POWER OF DESIGN
 11490 BLUEGRASS PKWY
 LOUISVILLE, KY 40299
 502-437-5252

REV.	DESCRIPTION	BY	DATE
A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

ATC SITE NUMBER:
 88011

 ATC SITE NAME:
 EAST KILLINGLY NORTH

 VERIZON WIRELESS SITE NAME:
 KILLINGLY CT

 SITE ADDRESS:
 1375 NORTH ROAD
 KILLINGLY, CT 06241



DATE DRAWN:	5/3/2021
ATC JOB NO:	13669420
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 0
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GENERAL CONSTRUCTION NOTES:

- | | | |
|---|---|---|
| <p>1. OWNER FURNISHED MATERIALS, VERIZON WIRELESS "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL</p> <p>A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)</p> <p>B. AC/TELCO INTERFACE BOX (PPC)</p> <p>C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)</p> <p>D. TOWERS, MONOPOLES</p> <p>E. TOWER LIGHTING</p> <p>F. GENERATORS & LIQUID PROPANE TANK</p> <p>G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING</p> <p>H. ANTENNAS (INSTALLED BY OTHERS)</p> <p>I. TRANSMISSION LINE</p> <p>J. TRANSMISSION LINE JUMPERS</p> <p>K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS</p> <p>L. TRANSMISSION LINE GROUND KITS</p> <p>M. HANGERS</p> <p>N. HOISTING GRIPS</p> <p>O. BTS EQUIPMENT</p> | <p>22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.</p> <p>23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.</p> <p>24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.</p> <p>25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.</p> <p>26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.</p> <p>27. CONTRACTOR SHALL NOTIFY VERIZON WIRELESS REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.</p> <p>28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.</p> <p>29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.</p> <p>30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON WIRELESS REP. ANY WORK FOUND BY THE VERIZON WIRELESS REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.</p> <p>31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.</p> <p>32. VERIZON WIRELESS FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WIRELESS WAREHOUSE NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.</p> <p>33. VERIZON WIRELESS OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON WIRELESS OR THEIR ARCHITECT/ENGINEER.</p> | <p>3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)</p> |
|---|---|---|

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

- | | |
|--|--|
| <p>1. WORK INCLUDED:</p> <p>A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON WIRELESS UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND</p> <p>B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON WIRELESS SPECIFICATIONS.</p> <p>C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS</p> <p>D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.</p> <p>E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.</p> <p>F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.</p> <p>G. ANTENNA AND COAXIAL CABLE GROUNDING:</p> | <p>2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR</p> |
|--|--|

EQUAL.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



REV.	DESCRIPTION	BY	DATE
A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

VERIZON WIRELESS SITE NAME:
KILLINGLY CT

SITE ADDRESS:
1375 NORTH ROAD
KILLINGLY, CT 06241



DATE DRAWN:	5/3/2021
ATC JOB NO:	13669420
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

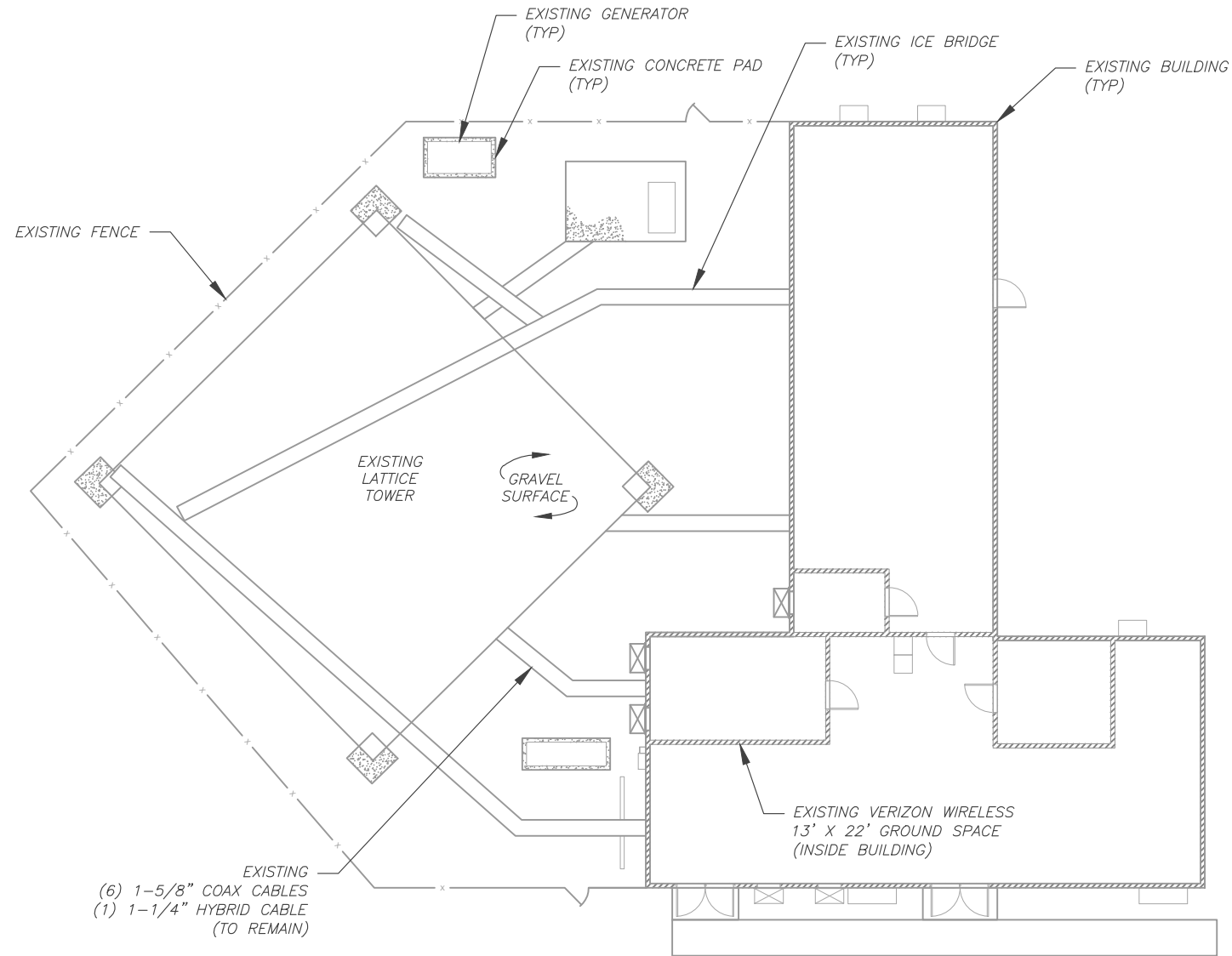
TITLE SHEET	
SHEET NUMBER: G-002	REVISION: 0

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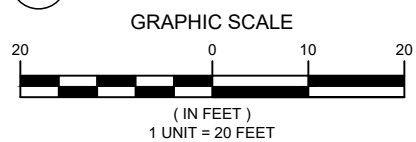
SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK FENCE



1 DETAILED SITE PLAN



AMERICAN TOWER®

POD
POWER OF DESIGN

11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299
502-437-5252

REV.	DESCRIPTION	BY	DATE
A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

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SITE ADDRESS:
1375 NORTH ROAD
KILLINGLY, CT 06241

SEAL:

08/10/2021

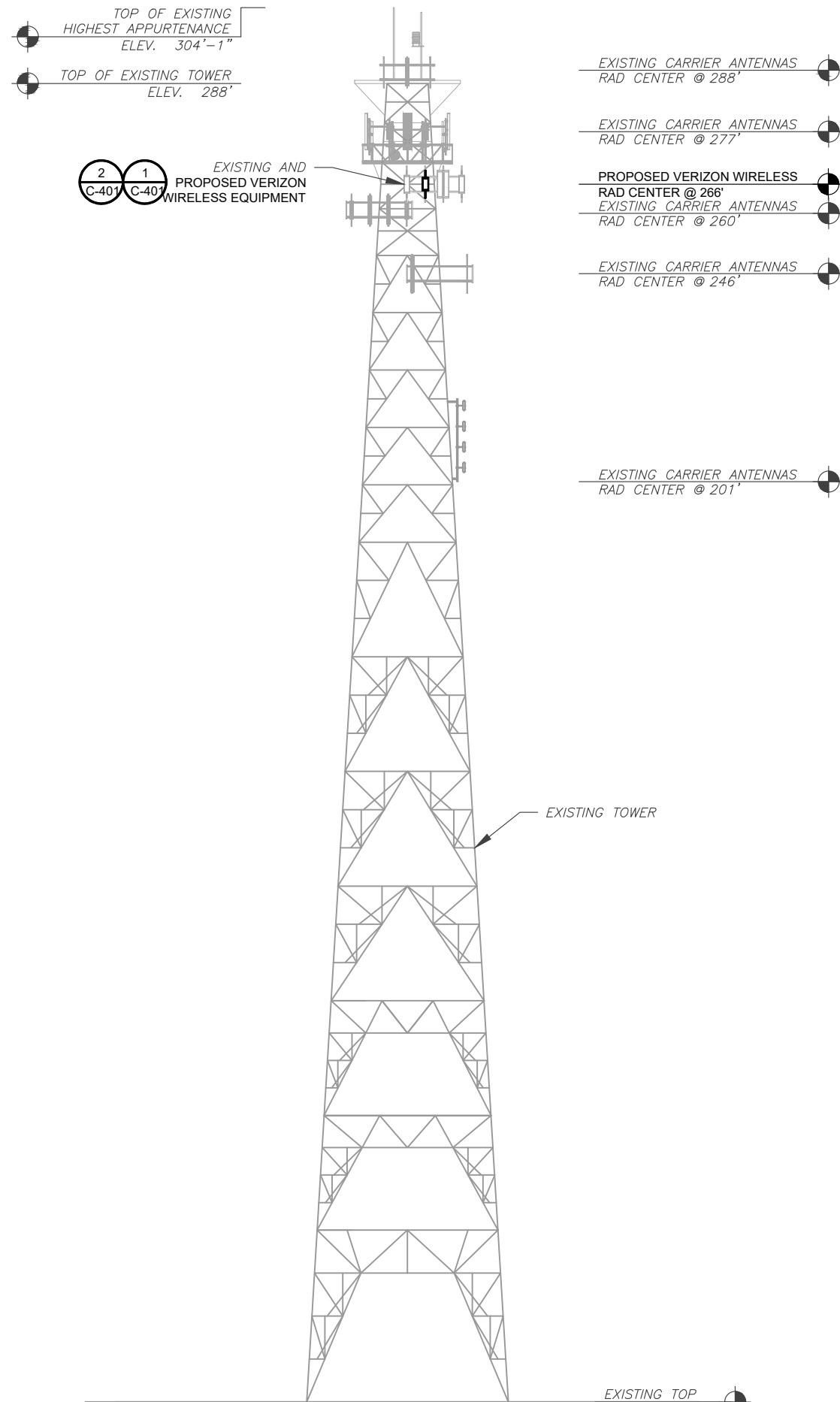


DATE DRAWN:	5/3/2021
ATC JOB NO:	13669420
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED JUNE 30, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

1 TOWER ELEVATION
SCALE: N.T.S.



REV.	DESCRIPTION	BY	DATE
A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

ATC SITE NUMBER:
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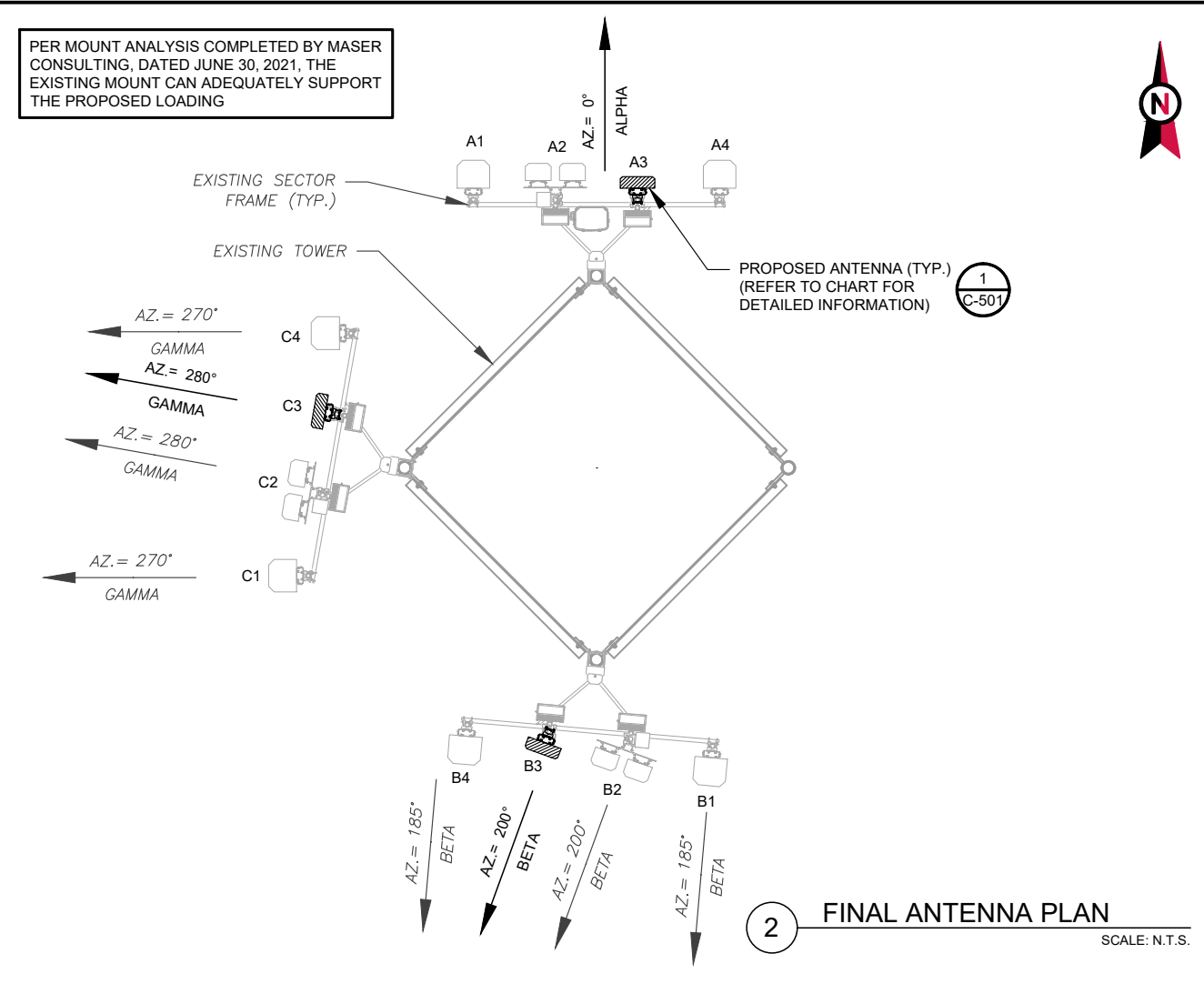
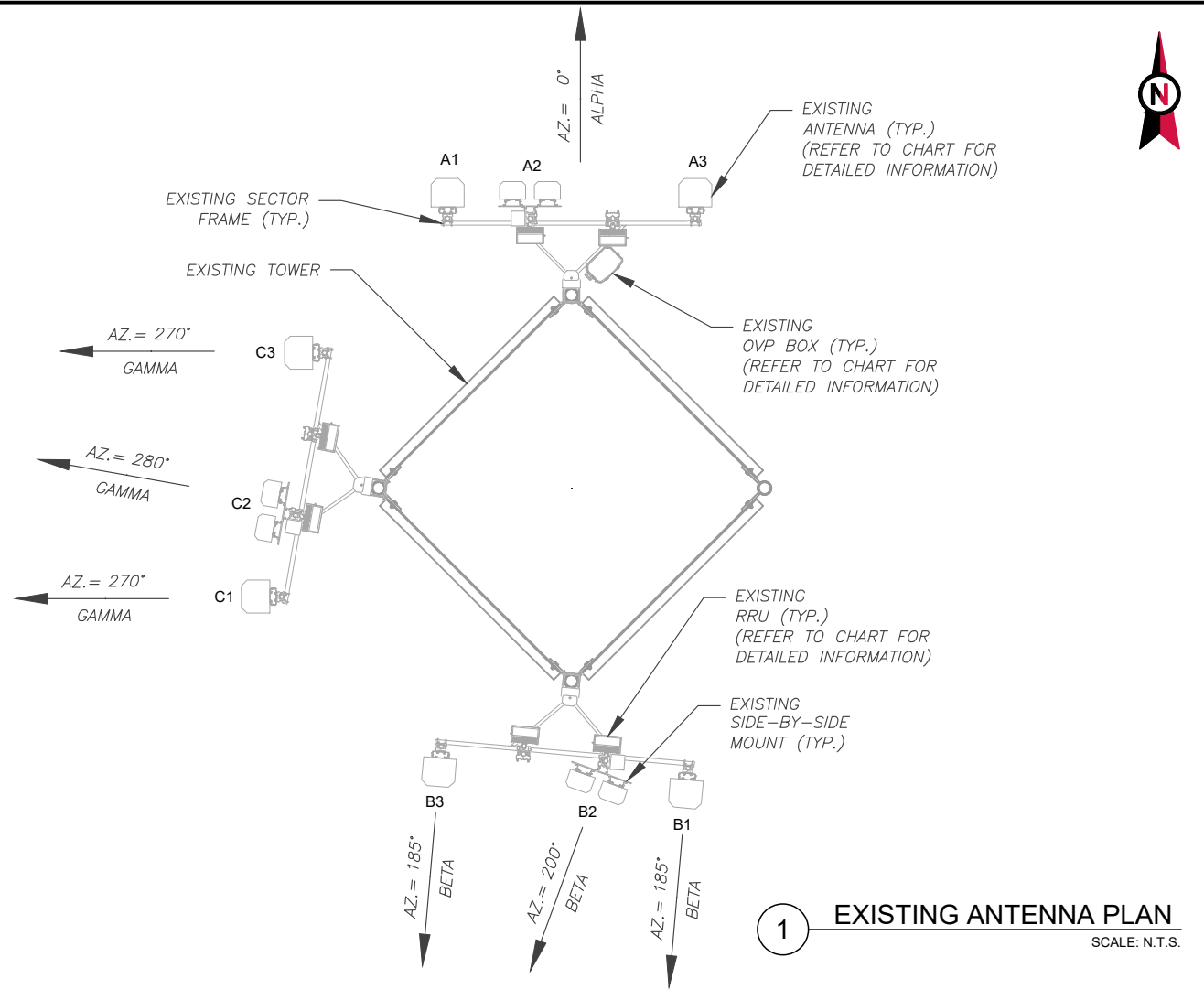


DATE DRAWN:	5/3/2021
ATC JOB NO:	13669420
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

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PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED JUNE 30, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

EXISTING ANTENNA SCHEDULE										
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY			NOTES
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELE C D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	266'	0°	A1	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	1. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS. 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
			A2	(2) JAHH-45BR3B	700/850/1900 /2100 LTE	-	RMN	B2/B66A RRHBR049	RMN	
			A3	-	-	-	-	B5/B13 RRHBR04C	RMN	
			A4	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	
BETA	266'	200°	B1	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED
			B2	(2) JAHH-45BR3B	700/850/1900 /2100 LTE	-	RMN	B2/B66A RRHBR049	RMN	
			B3	-	-	-	-	B5/B13 RRHBR04C	RMN	
		185°	B4	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	
GAMMA	266'	280°	C1	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	CABLE LENGTHS FOR JUMPERS JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'
			C2	(2) JAHH-65BR3B	700/850/1900 /2100 LTE	-	RMN	B2/B66A RRHBR049	RMN	
			C3	-	-	-	-	B5/B13 RRHBR04C	RMN	
			C4	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	

FINAL ANTENNA SCHEDULE										
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY			NOTES
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELE C D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	266'	0°	A1	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	1. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS. 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
			A2	(2) JAHH-45BR3B	700/850/1900 /2100 LTE	-	RMN	B2/B66A RRHBR049	RMN	
			A3	MT6407-77A	5G	-	ADD	B5/B13 RRHBR04C	RMN	
			A4	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	
BETA	266'	200°	B1	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	STATUS ABBREVIATIONS RMV: TO BE REMOVED RMN: TO REMAIN REL: TO BE RELOCATED ADD: TO BE ADDED
			B2	(2) JAHH-45BR3B	700/850/1900 /2100 LTE	-	RMN	B2/B66A RRHBR049	RMN	
			B3	MT6407-77A	5G	-	ADD	B5/B13 RRHBR04C	RMN	
		185°	B4	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	
GAMMA	266'	280°	C1	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	CABLE LENGTHS FOR JUMPERS JUNCTION BOX TO RRU: 15' RRU TO ANTENNA: 10'
			C2	(2) JAHH-65BR3B	700/850/1900 /2100 LTE	-	RMN	B2/B66A RRHBR049	RMN	
			C3	MT6407-77A	5G	-	ADD	B5/B13 RRHBR04C	RMN	
			C4	LPA-80063-4CF-EDIN-6	850 CDMA	-	RMN	-	-	

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) RC3DC-3315-PF-48	RMN	(6) 1-5/8"	(1) 1-1/4"	RMN
-	-	-	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) RC3DC-3315-PF-48	RMN	(6) 1-5/8"	(1) 1-1/4"	RMN
-	-	-	-	-



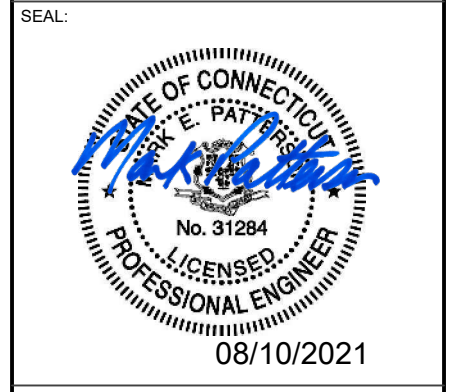
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A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

VERIZON WIRELESS SITE NAME:
KILLINGLY CT

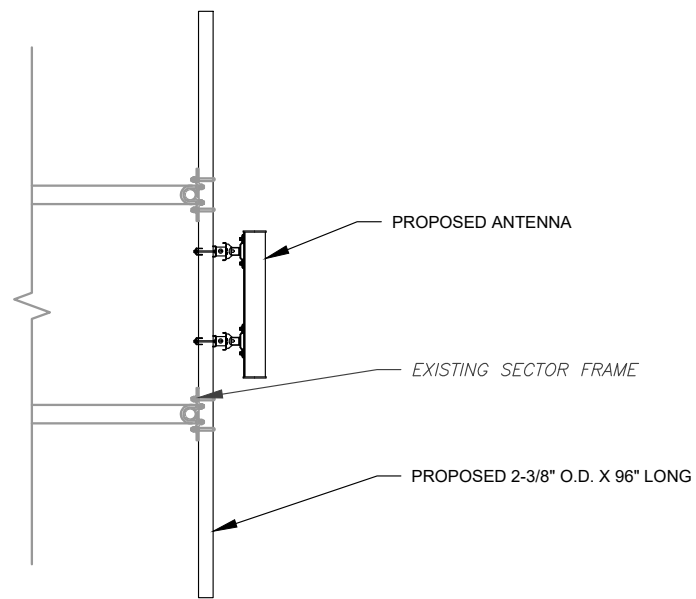
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1375 NORTH ROAD
KILLINGLY, CT 06241



DATE DRAWN: 5/3/2021
 ATC JOB NO: 13669420
 CUSTOMER ID: KILLINGLY CT
 CUSTOMER #: 467465

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER: C-401
 REVISION: 0



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

VERIZON WIRELESS SITE NAME:
KILLINGLY CT

SITE ADDRESS:
1375 NORTH ROAD
KILLINGLY, CT 06241

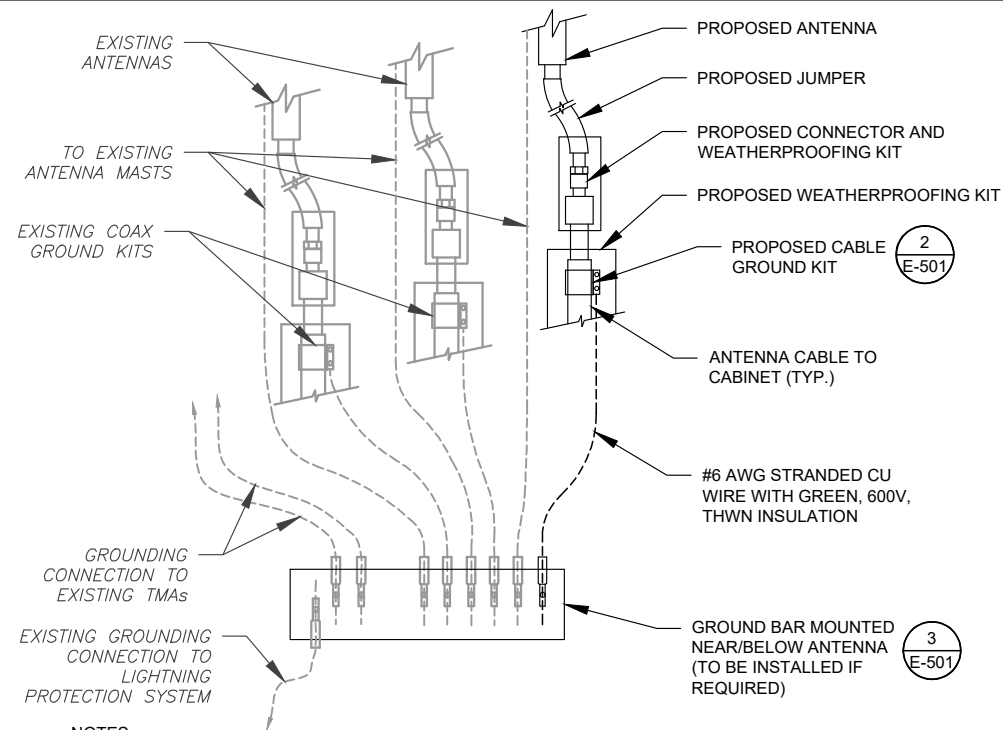
SEAL:



DATE DRAWN:	5/3/2021
ATC JOB NO:	13669420
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

CONSTRUCTION
DETAILS

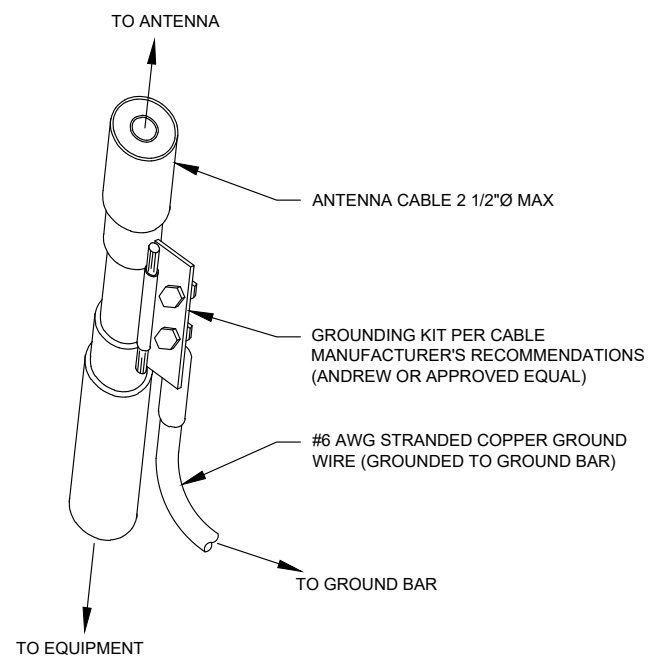
SHEET NUMBER:	REVISION:
C-501	0



NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

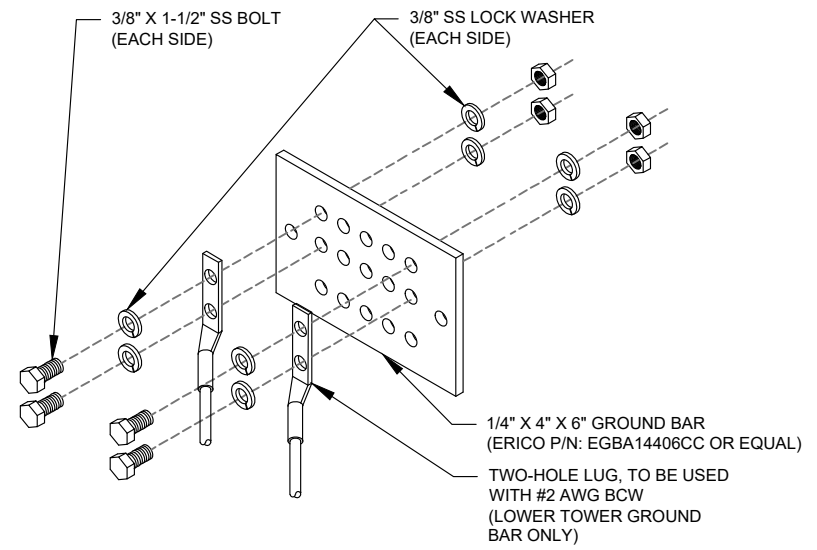
1 TYPICAL ANTENNA GROUNDING DIAGRAM
 SCALE: N.T.S.



GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
 SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
 SCALE: N.T.S.



REV.	DESCRIPTION	BY	DATE
A	PRELIM	EW	5/3/2021
0	FOR CONSTRUCTION	SM	08/10/21

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

VERIZON WIRELESS SITE NAME:
KILLINGLY CT

SITE ADDRESS:
 1375 NORTH ROAD
 KILLINGLY, CT 06241



DATE DRAWN:	5/3/2021
ATC JOB NO:	13669420
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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Maser Consulting Connecticut
 2000 Midlantic Drive, Suite 100
 Mt. Laurel, NJ 08054
 856.797.0412
 Peter.Albano@colliersengineering.com

Mount Structural Analysis Report
 (3) 12.46-Ft T-Frame

June 30, 2021
 Site ID: 467465-VZW / KILLINGLY CT
 Page | 4

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050481
 Maser Consulting Connecticut Project #: 21777487A (Rev. 1)

June 30, 2021

Site Information

Site ID: 467465-VZW / KILLINGLY CT
 Site Name: KILLINGLY CT
 Carrier Name: Verizon Wireless
 Address: 1375 North Rd
 Killingly, Connecticut 06239
 Windham County
 Latitude: 41.871500°
 Longitude: -71.821528°

Structure Information

Tower Type: 288-Ft Self Support
 Mount Type: 12.46-Ft T-Frame

FUZE ID # 16271959

Analysis Results

T-Frame: 92.3% Pass

***Contractor PMI Requirements:

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

Report Prepared By: Abigail Enriquez



6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - 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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Antenna Pipe	83.2%	Pass
Tie Back	22.7%	Pass
Face Vertical	41.1%	Pass
Standoff Vertical	77.9%	Pass
Standoff Horizontal	65.2%	Pass
Mast Pipe	51.5%	Pass
Face Horizontal	87.2%	Pass
Connection Check	92.3%	Pass

Structure Rating -- (Controlling Utilization of all Components)	92.3%
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Recommendation:

The existing mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

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

Attachments:

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

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.