

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

November 17, 2021

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

**RE: Notice of Exempt Modification // Site: HARTFORD NORTH 2 CT (ATC: 411187)
811 Blue Hills Ave., Bloomfield, CT 06002
N 41.80968596 // W 72.69661382**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 15 antennas at the 107-ft level on the existing 109-foot monopole tower, located at 811 Blue Hills Ave., Bloomfield, CT. The tower is owned by American Tower. The tower was originally approved by the Council in 2007. Verizon Wireless now intends to remove Nine (9) antennas and install Nine (9) new ones for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless will remove Six (6) RRH's, One (1) OVP and associated cabling. Additionally, Verizon Wireless intends to add Nine (9) Remote Radio Head (RRHs), Three (3) side-by-side antenna mounts, Two (2) OVP, and associated cables; 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 Suzette DeBeatham-Brown, Mayor, Building Officer, Kimberly Rogers, and Verizon Wireless, 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 October 26, 2021 by A.T. Engineering Service PLLC, a structural analysis dated August 9, 2021 by Tower Engineering Professionals, and a structural mount analysis by GPD Engineering and Architecture Professional Corporation date August 9, 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 Tower Engineering Professionals, dated August 9, 2021 and a structural mount analysis by GPD Engineering and Architecture Professional Corporation, dated August 9, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated October 26, 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,

John Coleman

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

Attachments

cc: Suzette DeBeatham-Brown, Mayor - as chief elected official
Kimberly Rogers, Building Officer - as P&Z official
Verizon Wireless - as Property owner

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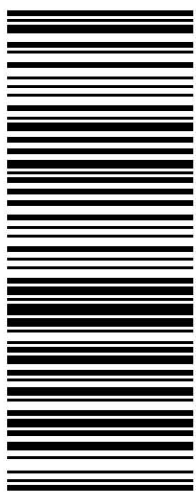

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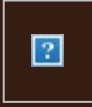
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<p>CASSANDRA ROSENKRANZ CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: BZO - KIMBERLY ROGERS MAYOR SUZETTE DEBEATHAM-BROWN 800 BLOOMFIELD AVE. BLOOMFIELD TOWN HALL BLOOMFIELD CT 06002-2460</p>	<p>CT 060 9-02</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0215 2211</p> 	<p>BILLING: P/P</p> <p>Reference # 1: 411187 - HARTFORD NORTH 2 CT CS 22.0.18. W/NTNV50 47.0A 11/2021*</p> 
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Reference Number: 411187 - HARTFORD NORTH 2 CT



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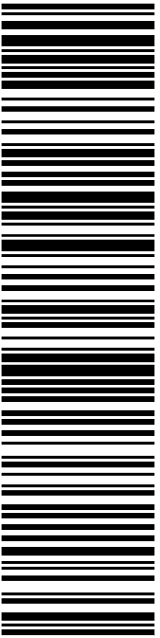
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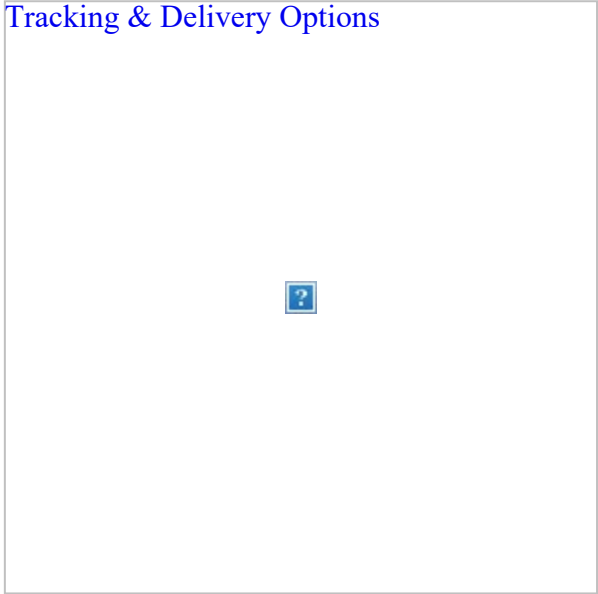
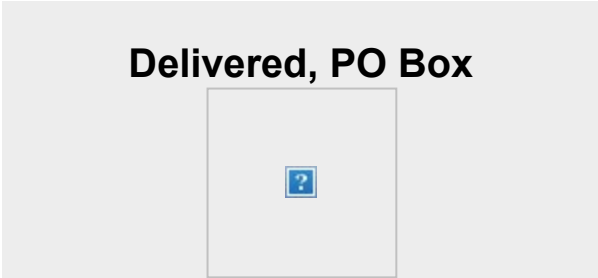
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DOCKET NO. 336 - Cellco Partnership d/b/a Verizon Wireless } Connecticut
application for a Certificate of Environmental Compatibility and }
Public Need for the construction, maintenance and operation of a } Siting
telecommunications facility located at 811 Blue Hills Avenue, }
Bloomfield, Connecticut. } Council

October 16, 2007

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Cellco Partnership d/b/a Verizon Wireless for the construction, maintenance and operation of a wireless telecommunications facility to be located at 811 Blue Hills Avenue in Bloomfield, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be designed and constructed as a monopole no taller than 110 feet above ground level to provide telecommunications services to both public and private entities. Said tower may be designed and constructed in such a manner that it could be expandable in the future.
2. The tower shall be designed and constructed with a yield point to minimize its setback radius.
3. Antennas on the tower may be flush-mounted or mounted on T-arm mounts.
4. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Bloomfield and the City of Hartford and all parties and intervenors, as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antenna mountings, equipment building, access road, and utility line;

- b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; and
 - c) a landscaping plan.
5. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council in the event other carriers locate at this facility or if circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
 6. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
 7. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
 8. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Bloomfield public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
 9. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
 10. Any request for extension of the time period referred to in Condition 9 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Bloomfield. Any proposed modifications to this Decision and Order shall likewise be so served.
 11. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

12. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.
13. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors in this proceeding are:

Status Granted	Status Holder (name, address & phone number)	Representative (name, address & phone number)
Applicant	Cellco Partnership d/b/a Verizon Wireless	Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597 (860) 275-8200 (860) 275-8299 fax kbaldwin@rc.com Sandy Carter, Regulatory Manager Verizon Wireless 99 East River Drive East Hartford, CT 06108 (860) 803-8219 alexandria.carter@verizonwireless.com
Party (granted 05/22/07)	Buckley Broadcast – WDRC	Scott Baron Chief Engineer WDRC AM 869 Blue Hills Avenue Bloomfield, CT 06002 (860) 243-1115 (860) 286-8257 fax scottbaron@wdrc.com



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

Structural Analysis Report

Structure : 109 ft Monopole
ATC Site Name : Hartford North 2 CT,CT
ATC Site Number : 411187
Engineering Number : 13713882_C3_01
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BLOOMFIELD BLUE HILLS
Carrier Site Number : 468920
Site Location : 811 Blue Hills Avenue
Bloomfield, CT 06002-3612
41.8097, -72.6966
County : Hartford
Date : August 9, 2021
Max Usage : 46%
Result : Pass

Prepared By:
Alan R. Freer, P.E.

Reviewed By:



08/09/2021

COA : PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 109 ft Monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	EEI Drawing #GS56960, dated November 19, 2007
Foundation Drawing	EEI Drawing #15165D-118.0, dated November 19, 2007
Geotechnical Report	Clarence Welti Assoc Tower #411187, dated October 16, 2007

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	117 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" 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
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_s = 0.18, S_i = 0.06$
Site Class:	D - Stiff Soil - Default

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



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
102.0	1	VZW Unused Reserve (14177.67 sqin)	T-Arms	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
92.0	3	Fujitsu TA08025-B605	Platform with Handrails	(1) 1.60" (40.6mm) Hybrid	DISH WIRELESS L.L.C.
	3	JMA Wireless MX08FRO665-21			
	1	Commscope RDIDC-9181-PF-48			
	3	Fujitsu TA08025-B604			

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
102.0	2	RFS DB-T1-6Z-8AB-OZ	-	(3) 1 5/8" Coax	VERIZON WIRELESS
105.0	3	Alcatel-Lucent B66A RRH 4x45			
	3	Alcatel-Lucent RRH2x60 700			
	3	Alcatel-Lucent RRH2X60-1900A-4R			
102.0	1	CSS X7C-FRO-660-0			
	5	Andrew LNX-6514DS-A1M			
	2	Commscope LNX-6514DS-A1M			
	1	CSS X7C-FRO-660-4			
	6	Commscope SBNHH-1D65B (40.6 lbs)			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
105.0	3	Samsung RT4401-48A	T-Arms	-	VERIZON WIRELESS
	3	Samsung RF4440d-13A			
	3	Samsung RF4439d-25A			
102.0	2	Raycap RRFDC-3315-PF-48 (32lbs)			
	3	Samsung MT6407-77A			
	3	Commscope NHHSS-65B-R2BT2			
	3	Commscope NHH-65B-R2B			
	6	Antel LPA-80063/6CF_5			

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

Install proposed lines inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Base Plate	9%	Pass
Anchor Bolts	27%	Pass
Shaft	38%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Moment (Kips-Ft)	2644.8	1187.1	45%
Shear (Kips)	32.2	14.9	46%

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
105.0	Samsung RT4401-48A	VERIZON WIRELESS	0.537	0.570
	Samsung RF4439d-25A			
	Samsung RF4440d-13A			
102.0	Commscope NHH-65B-R2B	VERIZON WIRELESS	0.507	0.570
	Commscope NHHSS-65B-R2BT2			
	Samsung MT6407-77A			
	Antel LPA-80063/6CF_5			
	Raycap RRFDC-3315-PF-48 (32lbs)			

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



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.

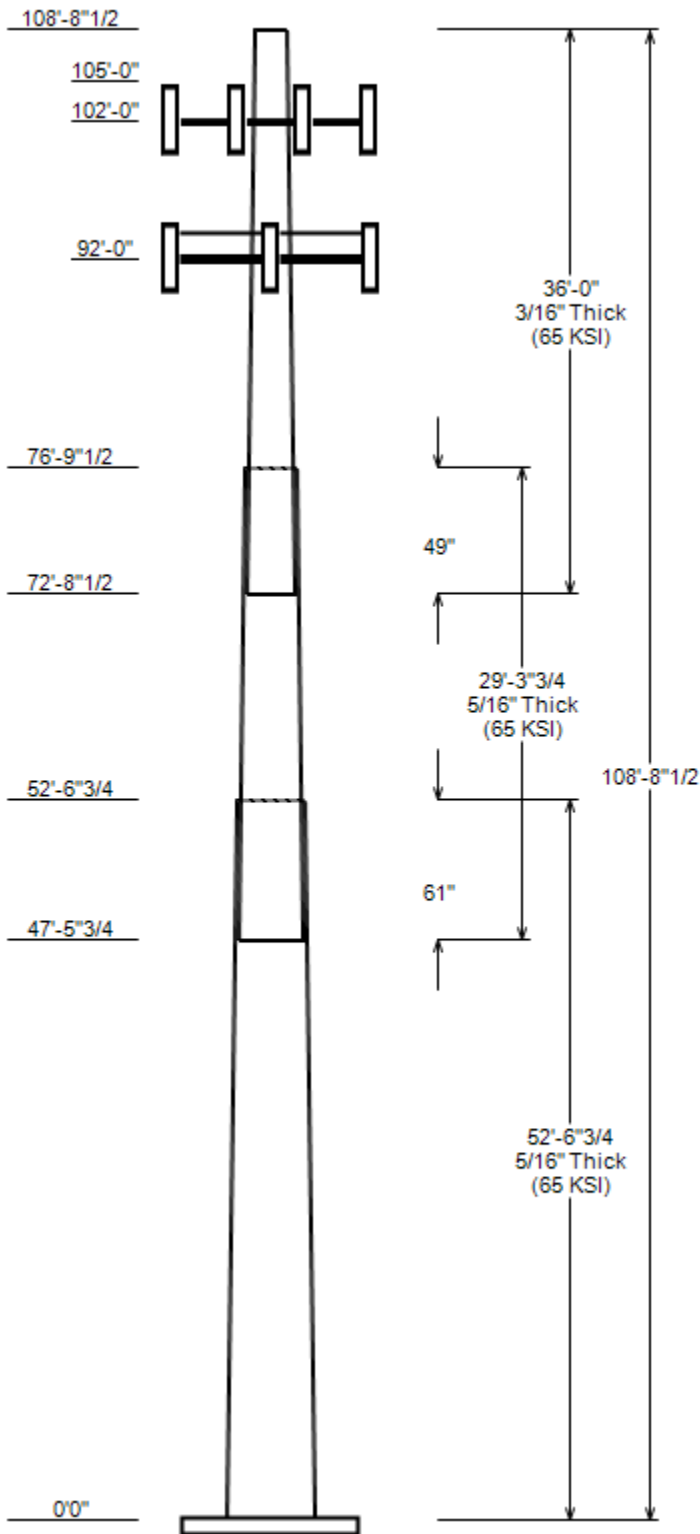
Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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.

JOB INFORMATION

Asset : 411187, Hartford North 2 CT
 Client : VERIZON WIRELESS
 Code : ANSI/TIA-222-H

Height : 108.71 ft
 Base Width : 51
 Shape : 18 Sides



SITE PARAMETERS

Description : 108.7 ft EEI Monopole
 Base Elev (ft): 0.00 Structure Class: II
 Taper : 0.32200 (In/ft) Exposure : B
 Topographic Category : 1 Topographic Feature:
 Topo Method : Method 1

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Overlap Length (in)	Steel Grade (ksi)
		Across Flats Top	Across Flats Bottom			
1	52.563	34.08	51.00	0.312	0.000	65
2	29.313	26.90	36.34	0.312	61.000	65
3	36.002	17.00	28.59	0.188	49.000	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
105.0	105.0	3	Samsung RT4401-48A
105.0	105.0	3	Samsung RF4440d-13A
105.0	105.0	3	Samsung RF4439d-25A
102.0	102.0	2	Raycap RRFDC-3315-PF-48 (32lbs)
102.0	102.0	3	Samsung MT6407-77A
102.0	102.0	3	Commscope NHHSS-65B-R2BT2
102.0	102.0	3	Commscope NHH-65B-R2B
102.0	102.0	6	Antel LPA-80063/6CF_5
102.0	102.0	3	Flat T-Arm
102.0	102.0	1	VZW Unused Reserve (14177.67 s
92.0	92.0	1	Commscope RDIDC-9181-PF-48
92.0	92.0	3	Fujitsu TA08025-B605
92.0	92.0	3	Fujitsu TA08025-B604
92.0	92.0	3	JMA Wireless MX08FRO665-21
92.0	92.0	1	Generic Flat Platform with Han

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	102.0	1 5/8" Hybriflex	No
0.0	102.0	1 5/8" Coax	No
0.0	92.0	1.60" (40.6mm) Hybrid	No

LOAD CASES

1.2D + 1.0W Normal	117 mph wind with no ice
0.9D + 1.0W Normal	117 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Nor	50 mph wind with 1.5" radial ice
1.2D + 1.0Ev + 1.0Eh Nor	Seismic
0.9D - 1.0Ev + 1.0Eh Nor	Seismic (Reduced DL)
1.0D + 1.0W Service Norm	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W Normal	1187.10	14.89	23.51
0.9D + 1.0W Normal	1181.01	14.88	17.63
1.2D + 1.0Di + 1.0Wi Normal	347.21	4.40	37.22
1.2D + 1.0Ev + 1.0Eh Normal	72.26	0.85	23.19
0.9D - 1.0Ev + 1.0Eh Normal	71.82	0.85	16.10
1.0D + 1.0W Service Normal	278.41	3.50	19.60

JOB INFORMATION

Asset : 411187, Hartford North 2 CT
Client : VERIZON WIRELESS
Code : ANSI/TIA-222-H

Height : 108.71 ft
Base Width : 51
Shape : 18 Sides

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
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ASSET: 411187, Hartford North 2 CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
ENG NO: 13713882_C3_01

ANALYSIS PARAMETERS

Location:	Hartford County,CT	Height:	108.71 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	51.00 in
Manufacturer:	EEL	Top Diameter:	17.00 in
K _d (non-service):	0.95	Taper:	0.3220 in/ft
K _e :	0.99	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	117 mph
Risk Category:	II	Design Wind Speed w/Ice:	50 mph
Topo Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.50 in
Crest Height:	0 ft	HMSL:	153.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	1.35		
T _L (sec):	6	P:	1	C _s :	0.043
S _s :	0.184	S ₁ :	0.055	C _s Max:	0.043
F _a :	1.600	F _v :	2.400	C _s Min:	0.030
S _{ds} :	0.196	S _{d1} :	0.088		

LOAD CASES

1.2D + 1.0W Normal	117 mph wind with no ice
0.9D + 1.0W Normal	117 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	50 mph wind with 1.5" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Bottom							Top						
						Weight (lb)	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	52.56	0.3125	65		0.00	7,491	51.00	-0.003	50.27	16,319.1	27.01	163.20	34.08	52.56	33.49	4,823.6	17.46	109.05	0.3220
2-18	29.31	0.3125	65	Slip	61.00	3,097	36.34	47.477	35.73	5,859.3	18.74	116.28	26.90	76.79	26.37	2,355.5	13.42	86.08	0.3220
3-18	36.00	0.1875	65	Slip	49.00	1,648	28.59	72.708	16.90	1,722.9	25.12	152.49	17.00	108.71	10.01	357.3	14.22	90.67	0.3220

Shaft Weight 12,236

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
105.00	Samsung RF4440d-13A	3	0.80	0.000	70.30	1.875	0.50	128.56	2.747	0.50
105.00	Samsung RT4401-48A	3	0.80	0.000	18.60	0.996	0.50	44.67	1.657	0.50
105.00	Samsung RF4439d-25A	3	0.80	0.000	74.70	2.500	0.67	151.88	3.511	0.67
102.00	Antel LPA-80063/6CF_5	6	0.80	0.000	27.00	9.593	0.76	275.12	12.226	0.76
102.00	Flat T-Arm	3	0.75	0.000	250.00	12.900	0.67	451.30	20.777	0.67
102.00	VZW Unused Reserve (14177.67 s	1	0.80	0.000	1254.60	98.456	0.90	2096.45	164.521	0.90
102.00	Commscope NHH-65B-R2B	3	0.80	0.000	43.70	8.079	0.69	211.63	10.762	0.69
102.00	Commscope NHHSS-65B-R2BT2	3	0.80	0.000	50.90	8.079	0.69	218.29	10.773	0.69
102.00	Raycap RRFDC-3315-PF-48 (32lbs	2	0.80	0.000	32.00	2.798	0.67	119.16	3.955	0.67
102.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	179.78	6.172	0.61
92.00	Commscope RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	1.00	76.14	2.725	1.00
92.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	134.72	2.839	0.50
92.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	119.49	2.839	0.50
92.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	309.50	15.168	0.64
92.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	4193.34	62.391	1.00

Totals Num Loadings: 15 41 6,382.10 14,104.43

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax/ Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	102.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	N	VERIZON WIREL
0.00	102.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	N	VERIZON WIREL
0.00	92.00	1	1.60" (40.6mm) Hybrid	1.6	2.34	N	0	0	0	0	N	DISH WIRELESS

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.3125	51.000	50.274	16,319.10	27.01	163.20	69.6	630.2	0.0	0.0
5.00		0.3125	49.390	48.677	14,813.10	26.10	158.05	70.7	590.7	0.0	841.8
10.00		0.3125	47.780	47.081	13,402.80	25.20	152.90	71.8	552.5	0.0	814.6
15.00		0.3125	46.171	45.484	12,084.90	24.29	147.75	72.8	515.5	0.0	787.4
20.00		0.3125	44.561	43.887	10,856.40	23.38	142.59	73.9	479.9	0.0	760.3
25.00		0.3125	42.951	42.291	9,714.00	22.47	137.44	75	445.5	0.0	733.1
30.00		0.3125	41.341	40.694	8,654.80	21.56	132.29	76	412.3	0.0	705.9
35.00		0.3125	39.731	39.097	7,675.50	20.66	127.14	77.1	380.5	0.0	678.8
40.00		0.3125	38.122	37.501	6,773.00	19.75	121.99	78.2	349.9	0.0	651.6
45.00		0.3125	36.512	35.904	5,944.20	18.84	116.84	79.2	320.7	0.0	624.4
47.48	Bot - Section 2	0.3125	35.714	35.112	5,559.60	18.39	114.28	79.8	306.6	0.0	299.5
50.00		0.3125	34.902	34.307	5,185.90	17.93	111.69	80.3	292.7	0.0	600.8
52.56	Top - Section 1	0.3125	34.702	34.109	5,096.50	17.82	111.05	80.4	289.3	0.0	596.6
55.00		0.3125	33.917	33.330	4,755.50	17.37	108.54	81	276.2	0.0	279.7
60.00		0.3125	32.307	31.734	4,104.30	16.47	103.38	82	250.2	0.0	553.5
65.00		0.3125	30.698	30.137	3,515.40	15.56	98.23	82.6	225.6	0.0	526.3
70.00		0.3125	29.088	28.540	2,985.80	14.65	93.08	82.6	202.2	0.0	499.2
72.71	Bot - Section 3	0.3125	28.216	27.676	2,722.50	14.16	90.29	82.6	190.0	0.0	259.0
75.00		0.3125	27.478	26.944	2,512.20	13.74	87.93	82.6	180.1	0.0	343.1
76.79	Top - Section 2	0.1875	27.276	16.121	1,494.50	23.89	145.47	73.3	107.9	0.0	261.9
80.00		0.1875	26.243	15.506	1,330.00	22.92	139.96	74.4	99.8	0.0	172.6
85.00		0.1875	24.633	14.548	1,098.40	21.40	131.38	76.2	87.8	0.0	255.7
90.00		0.1875	23.024	13.590	895.40	19.89	122.79	78	76.6	0.0	239.4
92.00		0.1875	22.380	13.207	821.80	19.28	119.36	78.7	72.3	0.0	91.2
95.00		0.1875	21.414	12.632	719.10	18.37	114.21	79.8	66.1	0.0	131.9
100.00		0.1875	19.804	11.674	567.60	16.86	105.62	81.6	56.4	0.0	206.8
102.00		0.1875	19.160	11.291	513.50	16.26	102.19	82.3	52.8	0.0	78.1
105.00		0.1875	18.194	10.716	439.00	15.35	97.04	82.6	47.5	0.0	112.3
108.71		0.1875	17.000	10.005	357.30	14.22	90.67	82.6	41.4	0.0	130.8

Totals: 12,236.3

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

Load Case: 1.2D + 1.0W Normal	117 mph wind with no ice	20 Iterations
Gust Response Factor:	1.10	
Dead load Factor:	1.20	
Wind Load Factor:	1.00	

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-23.51	-14.89	0.00	-1,187.1	0.00	1,187.10	3,150.44	882.31	4,039.19	3,291.21	0.00	0	0.368
5.00	-22.41	-14.54	0.00	-1,112.6	0.00	1,112.65	3,097.19	854.28	3,786.72	3,132.19	0.05	-0.1	0.363
10.00	-21.35	-14.20	0.00	-1,040.0	0.00	1,039.96	3,040.86	826.26	3,542.40	2,973.72	0.22	-0.2	0.357
15.00	-20.32	-13.87	0.00	-969.0	0.00	968.96	2,981.47	798.24	3,306.23	2,816.11	0.49	-0.31	0.351
20.00	-19.33	-13.55	0.00	-899.6	0.00	899.61	2,919.00	770.22	3,078.20	2,659.67	0.87	-0.42	0.345
25.00	-18.36	-13.24	0.00	-831.9	0.00	831.86	2,853.47	742.20	2,858.33	2,504.71	1.37	-0.53	0.339
30.00	-17.43	-12.94	0.00	-765.6	0.00	765.65	2,784.86	714.18	2,646.59	2,351.53	1.99	-0.65	0.332
35.00	-16.54	-12.64	0.00	-701.0	0.00	700.95	2,713.19	686.16	2,443.01	2,200.44	2.74	-0.77	0.325
40.00	-15.67	-12.33	0.00	-637.8	0.00	637.77	2,638.44	658.13	2,247.57	2,051.74	3.62	-0.9	0.317
45.00	-14.85	-12.10	0.00	-576.1	0.00	576.10	2,560.63	630.11	2,060.28	1,905.75	4.62	-1.02	0.308
47.48	-14.45	-11.95	0.00	-546.1	0.00	546.10	2,520.91	616.22	1,970.43	1,834.47	5.17	-1.09	0.304
50.00	-13.69	-11.79	0.00	-516.0	0.00	515.98	2,479.74	602.09	1,881.13	1,762.78	5.77	-1.16	0.299
52.56	-12.93	-11.63	0.00	-485.8	0.00	485.77	2,469.48	598.61	1,859.44	1,745.24	6.41	-1.23	0.284
55.00	-12.55	-11.41	0.00	-457.4	0.00	457.43	2,428.75	584.95	1,775.55	1,676.93	7.05	-1.3	0.278
60.00	-11.81	-11.11	0.00	-400.4	0.00	400.40	2,342.91	556.93	1,609.54	1,539.46	8.48	-1.42	0.266
65.00	-11.11	-10.81	0.00	-344.9	0.00	344.87	2,239.04	528.91	1,451.67	1,396.47	10.04	-1.55	0.252
70.00	-10.44	-10.58	0.00	-290.8	0.00	290.82	2,120.41	500.89	1,301.95	1,251.71	11.74	-1.68	0.238
72.71	-10.09	-10.44	0.00	-262.2	0.00	262.16	2,056.16	485.71	1,224.25	1,176.60	12.71	-1.75	0.228
75.00	-9.64	-10.32	0.00	-238.2	0.00	238.23	2,001.79	472.86	1,160.37	1,114.86	13.57	-1.81	0.219
76.79	-9.30	-10.18	0.00	-219.7	0.00	219.74	1,063.54	282.92	692.20	593.33	14.26	-1.86	0.380
80.00	-9.04	-9.97	0.00	-187.1	0.00	187.08	1,038.93	272.13	640.42	557.35	15.54	-1.94	0.346
85.00	-8.65	-9.72	0.00	-137.2	0.00	137.24	998.06	255.31	563.74	502.11	17.66	-2.11	0.283
90.00	-8.30	-9.54	0.00	-88.6	0.00	88.64	954.11	238.50	491.94	448.15	19.96	-2.26	0.208
92.00	-4.50	-6.95	0.00	-69.6	0.00	69.56	935.67	231.78	464.59	426.99	20.92	-2.31	0.169
95.00	-4.32	-6.76	0.00	-48.7	0.00	48.72	907.09	221.69	425.04	395.79	22.39	-2.37	0.129
100.00	-4.03	-6.59	0.00	-14.9	0.00	14.92	857.01	204.88	363.02	345.32	24.91	-2.43	0.049
102.00	-0.86	-0.49	0.00	-1.7	0.00	1.74	836.11	198.15	339.58	325.74	25.93	-2.44	0.006
105.00	-0.15	-0.07	0.00	-0.3	0.00	0.26	796.13	188.06	305.89	294.22	27.47	-2.44	0.001
108.71	0.00	-0.06	0.00	0.0	0.00	0.00	743.32	175.59	266.66	256.29	29.37	-2.44	0.000

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

Load Case: 0.9D + 1.0W Normal	117 mph wind with no ice	20 Iterations
Gust Response Factor: 1.10		
Dead load Factor: 0.90		
Wind Load Factor: 1.00		

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-17.63	-14.88	0.00	-1,181.0	0.00	1,181.01	3,150.44	882.31	4,039.19	3,291.21	0.00	0	0.365
5.00	-16.80	-14.52	0.00	-1,106.6	0.00	1,106.59	3,097.19	854.28	3,786.72	3,132.19	0.05	-0.1	0.359
10.00	-16.00	-14.18	0.00	-1,034.0	0.00	1,033.97	3,040.86	826.26	3,542.40	2,973.72	0.21	-0.2	0.353
15.00	-15.22	-13.84	0.00	-963.1	0.00	963.10	2,981.47	798.24	3,306.23	2,816.11	0.48	-0.31	0.347
20.00	-14.47	-13.51	0.00	-893.9	0.00	893.91	2,919.00	770.22	3,078.20	2,659.67	0.87	-0.42	0.341
25.00	-13.74	-13.19	0.00	-826.4	0.00	826.37	2,853.47	742.20	2,858.33	2,504.71	1.36	-0.53	0.335
30.00	-13.04	-12.88	0.00	-760.4	0.00	760.40	2,784.86	714.18	2,646.59	2,351.53	1.98	-0.65	0.328
35.00	-12.36	-12.57	0.00	-696.0	0.00	695.99	2,713.19	686.16	2,443.01	2,200.44	2.72	-0.77	0.321
40.00	-11.71	-12.27	0.00	-633.1	0.00	633.11	2,638.44	658.13	2,247.57	2,051.74	3.59	-0.89	0.313
45.00	-11.08	-12.03	0.00	-571.8	0.00	571.79	2,560.63	630.11	2,060.28	1,905.75	4.59	-1.02	0.305
47.48	-10.78	-11.88	0.00	-542.0	0.00	541.96	2,520.91	616.22	1,970.43	1,834.47	5.14	-1.08	0.300
50.00	-10.21	-11.71	0.00	-512.0	0.00	512.02	2,479.74	602.09	1,881.13	1,762.78	5.73	-1.15	0.295
52.56	-9.64	-11.55	0.00	-482.0	0.00	482.00	2,469.48	598.61	1,859.44	1,745.24	6.37	-1.22	0.280
55.00	-9.35	-11.33	0.00	-453.8	0.00	453.84	2,428.75	584.95	1,775.55	1,676.93	7.01	-1.29	0.275
60.00	-8.79	-11.03	0.00	-397.2	0.00	397.20	2,342.91	556.93	1,609.54	1,539.46	8.42	-1.41	0.262
65.00	-8.26	-10.73	0.00	-342.1	0.00	342.08	2,239.04	528.91	1,451.67	1,396.47	9.98	-1.54	0.249
70.00	-7.75	-10.50	0.00	-288.4	0.00	288.43	2,120.41	500.89	1,301.95	1,251.71	11.66	-1.67	0.235
72.71	-7.49	-10.36	0.00	-260.0	0.00	259.99	2,056.16	485.71	1,224.25	1,176.60	12.63	-1.74	0.225
75.00	-7.15	-10.24	0.00	-236.3	0.00	236.26	2,001.79	472.86	1,160.37	1,114.86	13.48	-1.8	0.216
76.79	-6.89	-10.10	0.00	-217.9	0.00	217.91	1,063.54	282.92	692.20	593.33	14.17	-1.85	0.375
80.00	-6.70	-9.88	0.00	-185.5	0.00	185.52	1,038.93	272.13	640.42	557.35	15.43	-1.92	0.341
85.00	-6.40	-9.63	0.00	-136.1	0.00	136.10	998.06	255.31	563.74	502.11	17.55	-2.1	0.279
90.00	-6.14	-9.45	0.00	-87.9	0.00	87.94	954.11	238.50	491.94	448.15	19.83	-2.24	0.204
92.00	-3.31	-6.90	0.00	-69.0	0.00	69.03	935.67	231.78	464.59	426.99	20.78	-2.29	0.166
95.00	-3.17	-6.71	0.00	-48.3	0.00	48.34	907.09	221.69	425.04	395.79	22.24	-2.35	0.127
100.00	-2.95	-6.55	0.00	-14.8	0.00	14.79	857.01	204.88	363.02	345.32	24.74	-2.41	0.047
102.00	-0.64	-0.48	0.00	-1.7	0.00	1.70	836.11	198.15	339.58	325.74	25.75	-2.42	0.006
105.00	-0.11	-0.07	0.00	-0.2	0.00	0.25	796.13	188.06	305.89	294.22	27.28	-2.42	0.001
108.71	0.00	-0.06	0.00	0.0	0.00	0.00	743.32	175.59	266.66	256.29	29.16	-2.43	0.000

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

Load Case: 1.2D + 1.0Di + 1.0Wi Normal		50 mph wind with 1.5" radial ice		19 Iterations
Gust Response Factor:	1.10	Ice Dead Load Factor	1.00	
Dead load Factor:	1.20			Ice Importance Factor 1.00
Wind Load Factor:	1.00			

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-37.22	-4.40	0.00	-347.2	0.00	347.21	3,150.44	882.31	4,039.19	3,291.21	0.00	0	0.117
5.00	-35.78	-4.29	0.00	-325.2	0.00	325.23	3,097.19	854.28	3,786.72	3,132.19	0.02	-0.03	0.115
10.00	-34.34	-4.19	0.00	-303.8	0.00	303.77	3,040.86	826.26	3,542.40	2,973.72	0.06	-0.06	0.113
15.00	-32.93	-4.09	0.00	-282.8	0.00	282.83	2,981.47	798.24	3,306.23	2,816.11	0.14	-0.09	0.112
20.00	-31.55	-3.99	0.00	-262.4	0.00	262.38	2,919.00	770.22	3,078.20	2,659.67	0.25	-0.12	0.109
25.00	-30.21	-3.90	0.00	-242.4	0.00	242.41	2,853.47	742.20	2,858.33	2,504.71	0.40	-0.16	0.107
30.00	-28.91	-3.81	0.00	-222.9	0.00	222.91	2,784.86	714.18	2,646.59	2,351.53	0.58	-0.19	0.105
35.00	-27.65	-3.71	0.00	-203.9	0.00	203.88	2,713.19	686.16	2,443.01	2,200.44	0.80	-0.22	0.103
40.00	-26.43	-3.62	0.00	-185.3	0.00	185.30	2,638.44	658.13	2,247.57	2,051.74	1.06	-0.26	0.100
45.00	-25.25	-3.55	0.00	-167.2	0.00	167.20	2,560.63	630.11	2,060.28	1,905.75	1.35	-0.3	0.098
47.48	-24.68	-3.50	0.00	-158.4	0.00	158.40	2,520.91	616.22	1,970.43	1,834.47	1.51	-0.32	0.096
50.00	-23.75	-3.45	0.00	-149.6	0.00	149.58	2,479.74	602.09	1,881.13	1,762.78	1.68	-0.34	0.094
52.56	-22.82	-3.40	0.00	-140.7	0.00	140.74	2,469.48	598.61	1,859.44	1,745.24	1.87	-0.36	0.090
55.00	-22.28	-3.33	0.00	-132.4	0.00	132.45	2,428.75	584.95	1,775.55	1,676.93	2.06	-0.38	0.088
60.00	-21.22	-3.24	0.00	-115.8	0.00	115.79	2,342.91	556.93	1,609.54	1,539.46	2.47	-0.41	0.084
65.00	-20.20	-3.14	0.00	-99.6	0.00	99.62	2,239.04	528.91	1,451.67	1,396.47	2.93	-0.45	0.080
70.00	-19.23	-3.07	0.00	-83.9	0.00	83.91	2,120.41	500.89	1,301.95	1,251.71	3.42	-0.49	0.076
72.71	-18.73	-3.02	0.00	-75.6	0.00	75.61	2,056.16	485.71	1,224.25	1,176.60	3.70	-0.51	0.073
75.00	-18.15	-2.98	0.00	-68.7	0.00	68.69	2,001.79	472.86	1,160.37	1,114.86	3.95	-0.53	0.071
76.79	-17.71	-2.94	0.00	-63.3	0.00	63.34	1,063.54	282.92	692.20	593.33	4.15	-0.54	0.124
80.00	-17.28	-2.87	0.00	-53.9	0.00	53.92	1,038.93	272.13	640.42	557.35	4.52	-0.56	0.113
85.00	-16.64	-2.79	0.00	-39.6	0.00	39.59	998.06	255.31	563.74	502.11	5.14	-0.61	0.096
90.00	-16.04	-2.73	0.00	-25.7	0.00	25.66	954.11	238.50	491.94	448.15	5.81	-0.66	0.074
92.00	-9.65	-2.02	0.00	-20.2	0.00	20.20	935.67	231.78	464.59	426.99	6.09	-0.67	0.058
95.00	-9.32	-1.95	0.00	-14.2	0.00	14.15	907.09	221.69	425.04	395.79	6.51	-0.69	0.046
100.00	-8.80	-1.89	0.00	-4.4	0.00	4.37	857.01	204.88	363.02	345.32	7.24	-0.71	0.023
102.00	-1.56	-0.16	0.00	-0.6	0.00	0.59	836.11	198.15	339.58	325.74	7.54	-0.71	0.004
105.00	-0.30	-0.03	0.00	-0.1	0.00	0.10	796.13	188.06	305.89	294.22	7.99	-0.71	0.001
108.71	0.00	-0.02	0.00	0.0	0.00	0.00	743.32	175.59	266.66	256.29	8.54	-0.71	0.000

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

Load Case: 1.0D + 1.0W Service Normal	60 mph Wind with No Ice	19 Iterations
Gust Response Factor:	1.10	
Dead load Factor:	1.00	
Wind Load Factor:	1.00	

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-19.60	-3.50	0.00	-278.4	0.00	278.41	3,150.44	882.31	4,039.19	3,291.21	0.00	0	0.091
5.00	-18.71	-3.42	0.00	-260.9	0.00	260.90	3,097.19	854.28	3,786.72	3,132.19	0.01	-0.02	0.089
10.00	-17.84	-3.34	0.00	-243.8	0.00	243.81	3,040.86	826.26	3,542.40	2,973.72	0.05	-0.05	0.088
15.00	-17.00	-3.26	0.00	-227.1	0.00	227.12	2,981.47	798.24	3,306.23	2,816.11	0.11	-0.07	0.086
20.00	-16.19	-3.18	0.00	-210.8	0.00	210.83	2,919.00	770.22	3,078.20	2,659.67	0.20	-0.1	0.085
25.00	-15.41	-3.11	0.00	-194.9	0.00	194.92	2,853.47	742.20	2,858.33	2,504.71	0.32	-0.13	0.083
30.00	-14.65	-3.04	0.00	-179.4	0.00	179.38	2,784.86	714.18	2,646.59	2,351.53	0.47	-0.15	0.082
35.00	-13.92	-2.96	0.00	-164.2	0.00	164.20	2,713.19	686.16	2,443.01	2,200.44	0.64	-0.18	0.080
40.00	-13.22	-2.89	0.00	-149.4	0.00	149.39	2,638.44	658.13	2,247.57	2,051.74	0.85	-0.21	0.078
45.00	-12.55	-2.84	0.00	-134.9	0.00	134.93	2,560.63	630.11	2,060.28	1,905.75	1.08	-0.24	0.076
47.48	-12.22	-2.80	0.00	-127.9	0.00	127.90	2,520.91	616.22	1,970.43	1,834.47	1.21	-0.26	0.075
50.00	-11.60	-2.76	0.00	-120.8	0.00	120.84	2,479.74	602.09	1,881.13	1,762.78	1.35	-0.27	0.073
52.56	-10.97	-2.72	0.00	-113.8	0.00	113.76	2,469.48	598.61	1,859.44	1,745.24	1.50	-0.29	0.070
55.00	-10.67	-2.67	0.00	-107.1	0.00	107.12	2,428.75	584.95	1,775.55	1,676.93	1.65	-0.3	0.068
60.00	-10.07	-2.60	0.00	-93.8	0.00	93.76	2,342.91	556.93	1,609.54	1,539.46	1.99	-0.33	0.065
65.00	-9.49	-2.53	0.00	-80.8	0.00	80.75	2,239.04	528.91	1,451.67	1,396.47	2.35	-0.36	0.062
70.00	-8.94	-2.48	0.00	-68.1	0.00	68.09	2,120.41	500.89	1,301.95	1,251.71	2.75	-0.39	0.059
72.71	-8.65	-2.44	0.00	-61.4	0.00	61.38	2,056.16	485.71	1,224.25	1,176.60	2.98	-0.41	0.056
75.00	-8.29	-2.42	0.00	-55.8	0.00	55.78	2,001.79	472.86	1,160.37	1,114.86	3.18	-0.42	0.054
76.79	-8.01	-2.38	0.00	-51.4	0.00	51.45	1,063.54	282.92	692.20	593.33	3.34	-0.44	0.094
80.00	-7.80	-2.33	0.00	-43.8	0.00	43.80	1,038.93	272.13	640.42	557.35	3.64	-0.45	0.086
85.00	-7.50	-2.27	0.00	-32.1	0.00	32.14	998.06	255.31	563.74	502.11	4.14	-0.49	0.072
90.00	-7.21	-2.23	0.00	-20.8	0.00	20.76	954.11	238.50	491.94	448.15	4.68	-0.53	0.054
92.00	-3.97	-1.63	0.00	-16.3	0.00	16.30	935.67	231.78	464.59	426.99	4.90	-0.54	0.042
95.00	-3.82	-1.58	0.00	-11.4	0.00	11.41	907.09	221.69	425.04	395.79	5.25	-0.56	0.033
100.00	-3.57	-1.55	0.00	-3.5	0.00	3.49	857.01	204.88	363.02	345.32	5.84	-0.57	0.014
102.00	-0.73	-0.11	0.00	-0.4	0.00	0.40	836.11	198.15	339.58	325.74	6.08	-0.57	0.002
105.00	-0.13	-0.02	0.00	-0.1	0.00	0.06	796.13	188.06	305.89	294.22	6.44	-0.57	0.000
108.71	0.00	-0.01	0.00	0.0	0.00	0.00	743.32	175.59	266.66	256.29	6.88	-0.57	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS
(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.184
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.055
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.196
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.088
Seismic Response Coefficient (C_s):	0.043
Upper Limit C_s :	0.043
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	1.350
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	1.430
Total Unfactored Dead Load:	19.600 k
Seismic Base Shear (E):	0.850 k

1.2D + 1.0Ev + 1.0Eh Normal Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
28	106.855	131	102	0.014	11	162
27	103.5	112	84	0.011	9	139
26	101	93	67	0.009	8	115
25	97.5	244	168	0.022	19	303
24	93.5	154	100	0.013	11	191
23	91	111	69	0.009	8	137
22	87.5	289	170	0.022	19	358
21	82.5	305	165	0.022	19	378
20	78.3958	204	103	0.014	12	253
19	75.8958	280	134	0.018	15	346
18	73.8542	366	169	0.022	19	453
17	71.3542	286	126	0.017	14	354
16	67.5	548	223	0.029	25	680
15	62.5	576	210	0.028	24	713
14	57.5	603	195	0.026	22	747
13	53.7813	304	89	0.012	10	376
12	51.2813	622	171	0.022	19	771
11	48.7396	626	160	0.021	18	775
10	46.2396	324	77	0.010	9	402
9	42.5	674	142	0.019	16	835
8	37.5	701	123	0.016	14	869
7	32.5	728	104	0.014	12	902
6	27.5	755	85	0.011	10	936
5	22.5	782	66	0.009	7	970
4	17.5	810	48	0.006	5	1,003
3	12.5	837	31	0.004	3	1,037
2	7.5	864	15	0.002	2	1,071
1	2.5	891	3	0.000	0	1,104
Samsung RT4401-48A	105	56	43	0.006	5	69
Samsung RF4440d-13A	105	211	161	0.021	18	261
Samsung RF4439d-25A	105	224	171	0.023	19	278
Raycap RRFDC-3315-PF-48 (32lbs)	102	64	47	0.006	5	79
Samsung MT6407-77A	102	245	179	0.024	20	303
Commscope NHHSS-65B-R2BT2	102	153	112	0.015	13	189

ASSET: 411187, Hartford North 2 CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: 13713882_C3_01

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Commscope NHH-65B-R2B	102	131	96	0.013	11	162
Antel LPA-80063/6CF_5	102	162	119	0.016	13	201
Flat T-Arm	102	750	549	0.072	62	929
VZW Unused Reserve (14177.67 sqin)	102	1,255	919	0.121	103	1,555
Commscope RDIDC-9181-PF-48	92	22	14	0.002	2	27
Fujitsu TA08025-B605	92	225	142	0.019	16	279
Fujitsu TA08025-B604	92	192	121	0.016	14	238
JMA Wireless MX08FRO665-21	92	194	122	0.016	14	240
Generic Flat Platform with Handrails	92	2,500	1,580	0.209	177	3,098
		19,601	7,573	1.000	850	24,290

0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
28	106.855	131	102	0.014	11	113
27	103.5	112	84	0.011	9	97
26	101	93	67	0.009	8	80
25	97.5	244	168	0.022	19	210
24	93.5	154	100	0.013	11	133
23	91	111	69	0.009	8	95
22	87.5	289	170	0.022	19	248
21	82.5	305	165	0.022	19	262
20	78.3958	204	103	0.014	12	176
19	75.8958	280	134	0.018	15	241
18	73.8542	366	169	0.022	19	315
17	71.3542	286	126	0.017	14	246
16	67.5	548	223	0.029	25	472
15	62.5	576	210	0.028	24	495
14	57.5	603	195	0.026	22	519
13	53.7813	304	89	0.012	10	261
12	51.2813	622	171	0.022	19	535
11	48.7396	626	160	0.021	18	539
10	46.2396	324	77	0.010	9	279
9	42.5	674	142	0.019	16	580
8	37.5	701	123	0.016	14	603
7	32.5	728	104	0.014	12	627
6	27.5	755	85	0.011	10	650
5	22.5	782	66	0.009	7	673
4	17.5	810	48	0.006	5	697
3	12.5	837	31	0.004	3	720
2	7.5	864	15	0.002	2	744
1	2.5	891	3	0.000	0	767
Samsung RT4401-48A	105	56	43	0.006	5	48
Samsung RF4440d-13A	105	211	161	0.021	18	182
Samsung RF4439d-25A	105	224	171	0.023	19	193
Raycap RRFDC-3315-PF-48 (32lbs)	102	64	47	0.006	5	55
Samsung MT6407-77A	102	245	179	0.024	20	211
Commscope NHHSS-65B-R2BT2	102	153	112	0.015	13	131
Commscope NHH-65B-R2B	102	131	96	0.013	11	113
Antel LPA-80063/6CF_5	102	162	119	0.016	13	139
Flat T-Arm	102	750	549	0.072	62	646
VZW Unused Reserve (14177.67 sqin)	102	1,255	919	0.121	103	1,080
Commscope RDIDC-9181-PF-48	92	22	14	0.002	2	19
Fujitsu TA08025-B605	92	225	142	0.019	16	194
Fujitsu TA08025-B604	92	192	121	0.016	14	165
JMA Wireless MX08FRO665-21	92	194	122	0.016	14	167
Generic Flat Platform with Handrails	92	2,500	1,580	0.209	177	2,152
		19,601	7,573	1.000	850	16,871

1.2D + 1.0Ev + 1.0Eh Normal Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-23.19	-0.85	0.00	-72.26	0.00	72.26	3,150.44	882.31	4,039	3,291.21	0.00	0.00	0.03
5.00	-22.12	-0.85	0.00	-68.01	0.00	68.01	3,097.19	854.28	3,787	3,132.19	0.00	-0.01	0.03
10.00	-21.08	-0.85	0.00	-63.75	0.00	63.75	3,040.86	826.26	3,542	2,973.72	0.01	-0.01	0.03
15.00	-20.07	-0.85	0.00	-59.50	0.00	59.50	2,981.47	798.24	3,306	2,816.11	0.03	-0.02	0.03
20.00	-19.11	-0.84	0.00	-55.27	0.00	55.27	2,919.00	770.22	3,078	2,659.67	0.05	-0.03	0.03
25.00	-18.17	-0.83	0.00	-51.06	0.00	51.06	2,853.47	742.20	2,858	2,504.71	0.08	-0.03	0.03
30.00	-17.27	-0.82	0.00	-46.89	0.00	46.89	2,784.86	714.18	2,647	2,351.53	0.12	-0.04	0.03
35.00	-16.40	-0.81	0.00	-42.78	0.00	42.78	2,713.19	686.16	2,443	2,200.44	0.17	-0.05	0.03
40.00	-15.56	-0.80	0.00	-38.72	0.00	38.72	2,638.44	658.13	2,248	2,051.74	0.22	-0.05	0.03
45.00	-15.16	-0.79	0.00	-34.74	0.00	34.74	2,560.63	630.11	2,060	1,905.75	0.28	-0.06	0.02
47.48	-14.39	-0.77	0.00	-32.78	0.00	32.78	2,520.91	616.22	1,970	1,834.47	0.32	-0.07	0.02
50.00	-13.62	-0.75	0.00	-30.84	0.00	30.84	2,479.74	602.09	1,881	1,762.78	0.35	-0.07	0.02
52.56	-13.24	-0.74	0.00	-28.91	0.00	28.91	2,469.48	598.61	1,859	1,745.24	0.39	-0.07	0.02
55.00	-12.49	-0.72	0.00	-27.10	0.00	27.10	2,428.75	584.95	1,776	1,676.93	0.43	-0.08	0.02
60.00	-11.78	-0.70	0.00	-23.50	0.00	23.50	2,342.91	556.93	1,610	1,539.46	0.52	-0.09	0.02
65.00	-11.10	-0.67	0.00	-20.01	0.00	20.01	2,239.04	528.91	1,452	1,396.47	0.61	-0.09	0.02
70.00	-10.74	-0.66	0.00	-16.64	0.00	16.64	2,120.41	500.89	1,302	1,251.71	0.72	-0.10	0.02
72.71	-10.29	-0.64	0.00	-14.85	0.00	14.85	2,056.16	485.71	1,224	1,176.60	0.77	-0.11	0.02
75.00	-9.95	-0.63	0.00	-13.39	0.00	13.39	2,001.79	472.86	1,160	1,114.86	0.83	-0.11	0.02
76.79	-9.69	-0.61	0.00	-12.27	0.00	12.27	1,063.54	282.92	692	593.33	0.87	-0.11	0.03
80.00	-9.31	-0.60	0.00	-10.30	0.00	10.30	1,038.93	272.13	640	557.35	0.94	-0.12	0.03
85.00	-8.96	-0.58	0.00	-7.32	0.00	7.32	998.06	255.31	564	502.11	1.07	-0.13	0.02
90.00	-8.82	-0.57	0.00	-4.43	0.00	4.43	954.11	238.50	492	448.15	1.21	-0.13	0.02
92.00	-4.75	-0.33	0.00	-3.29	0.00	3.29	935.67	231.78	465	426.99	1.26	-0.14	0.01
95.00	-4.44	-0.31	0.00	-2.31	0.00	2.31	907.09	221.69	425	395.79	1.35	-0.14	0.01
100.00	-4.33	-0.30	0.00	-0.77	0.00	0.77	857.01	204.88	363	345.32	1.49	-0.14	0.01
102.00	-0.77	-0.06	0.00	-0.17	0.00	0.17	836.11	198.15	340	325.74	1.55	-0.14	0.00
105.00	0.00	0.00	0.00	0.00	0.00	0.00	796.13	188.06	306	294.22	1.64	-0.14	0.00
108.71	0.00	0.00	0.00	0.00	0.00	0.00	743.32	175.59	267	256.29	1.75	-0.14	0.00

0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-16.10	-0.85	0.00	-71.82	0.00	71.82	3,150.44	882.31	4,039	3,291.21	0.00	0.00	0.03
5.00	-15.36	-0.85	0.00	-67.57	0.00	67.57	3,097.19	854.28	3,787	3,132.19	0.00	-0.01	0.03
10.00	-14.64	-0.85	0.00	-63.32	0.00	63.32	3,040.86	826.26	3,542	2,973.72	0.01	-0.01	0.03
15.00	-13.94	-0.84	0.00	-59.08	0.00	59.08	2,981.47	798.24	3,306	2,816.11	0.03	-0.02	0.03
20.00	-13.27	-0.84	0.00	-54.86	0.00	54.86	2,919.00	770.22	3,078	2,659.67	0.05	-0.03	0.03
25.00	-12.62	-0.83	0.00	-50.67	0.00	50.67	2,853.47	742.20	2,858	2,504.71	0.08	-0.03	0.03
30.00	-11.99	-0.82	0.00	-46.52	0.00	46.52	2,784.86	714.18	2,647	2,351.53	0.12	-0.04	0.02
35.00	-11.39	-0.81	0.00	-42.42	0.00	42.42	2,713.19	686.16	2,443	2,200.44	0.17	-0.05	0.02
40.00	-10.81	-0.79	0.00	-38.39	0.00	38.39	2,638.44	658.13	2,248	2,051.74	0.22	-0.05	0.02
45.00	-10.53	-0.78	0.00	-34.43	0.00	34.43	2,560.63	630.11	2,060	1,905.75	0.28	-0.06	0.02
47.48	-9.99	-0.77	0.00	-32.49	0.00	32.49	2,520.91	616.22	1,970	1,834.47	0.31	-0.07	0.02
50.00	-9.46	-0.75	0.00	-30.56	0.00	30.56	2,479.74	602.09	1,881	1,762.78	0.35	-0.07	0.02
52.56	-9.20	-0.74	0.00	-28.64	0.00	28.64	2,469.48	598.61	1,859	1,745.24	0.39	-0.07	0.02
55.00	-8.68	-0.72	0.00	-26.85	0.00	26.85	2,428.75	584.95	1,776	1,676.93	0.43	-0.08	0.02
60.00	-8.18	-0.69	0.00	-23.27	0.00	23.27	2,342.91	556.93	1,610	1,539.46	0.51	-0.09	0.02
65.00	-7.71	-0.67	0.00	-19.81	0.00	19.81	2,239.04	528.91	1,452	1,396.47	0.61	-0.09	0.02
70.00	-7.46	-0.65	0.00	-16.47	0.00	16.47	2,120.41	500.89	1,302	1,251.71	0.71	-0.10	0.02
72.71	-7.15	-0.63	0.00	-14.70	0.00	14.70	2,056.16	485.71	1,224	1,176.60	0.77	-0.10	0.02
75.00	-6.91	-0.62	0.00	-13.25	0.00	13.25	2,001.79	472.86	1,160	1,114.86	0.82	-0.11	0.02
76.79	-6.73	-0.61	0.00	-12.14	0.00	12.14	1,063.54	282.92	692	593.33	0.86	-0.11	0.03
80.00	-6.47	-0.59	0.00	-10.19	0.00	10.19	1,038.93	272.13	640	557.35	0.94	-0.11	0.03
85.00	-6.22	-0.57	0.00	-7.24	0.00	7.24	998.06	255.31	564	502.11	1.06	-0.12	0.02
90.00	-6.12	-0.56	0.00	-4.38	0.00	4.38	954.11	238.50	492	448.15	1.20	-0.13	0.02
92.00	-3.30	-0.32	0.00	-3.25	0.00	3.25	935.67	231.78	465	426.99	1.25	-0.13	0.01
95.00	-3.09	-0.30	0.00	-2.28	0.00	2.28	907.09	221.69	425	395.79	1.34	-0.14	0.01
100.00	-3.01	-0.30	0.00	-0.76	0.00	0.76	857.01	204.88	363	345.32	1.48	-0.14	0.01
102.00	-0.53	-0.05	0.00	-0.16	0.00	0.16	836.11	198.15	340	325.74	1.54	-0.14	0.00
105.00	0.00	0.00	0.00	0.00	0.00	0.00	796.13	188.06	306	294.22	1.63	-0.14	0.00
108.71	0.00	0.00	0.00	0.00	0.00	0.00	743.32	175.59	267	256.29	1.74	-0.14	0.00

ANALYSIS SUMMARY

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W Normal	14.89	0.00	23.51	0.00	0.00	1187.10	76.79	0.38
0.9D + 1.0W Normal	14.88	0.00	17.63	0.00	0.00	1181.01	76.79	0.38
1.2D + 1.0Di + 1.0Wi Normal	4.40	0.00	37.22	0.00	0.00	347.21	76.79	0.12
1.2D + 1.0Ev + 1.0Eh Normal	0.85	0.00	23.19	0.00	0.00	72.26	76.79	0.03
0.9D - 1.0Ev + 1.0Eh Normal	0.85	0.00	16.10	0.00	0.00	71.82	0.00	0.03
1.0D + 1.0W Service Normal	3.50	0.00	19.60	0.00	0.00	278.41	76.79	0.09

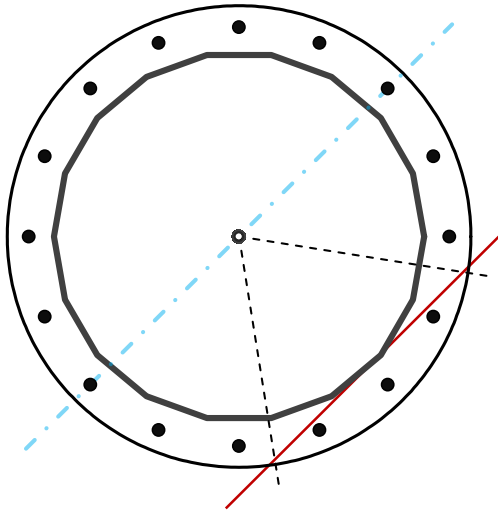
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	51	in
Thickness	5/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	1,187.0	k-ft
Axial, Pu	23.5	k
Shear, Vu	14.9	k
Neutral Axis	225	°

Report Capacities		
Component	Capacity	Result
Base Plate	9%	Pass
Anchor Rods	27%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ϕ	65	in
Thickness	2 1/2	in
Grade	A572-50	
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Clip	N/A	in
Orientation Offset	0	°
Anchor Rod Detail	d	$\eta=0.5$
Clear Distance	3	in
Applied Moment, Mu	247.7	k
Bending Stress, ϕMn	2675.7	k



Original Anchor Rods		
Arrangement	Radial	-
Quantity	16	-
Diameter, ϕ	2 1/4	in
Bolt Circle	59	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	11.6	in
Orientation Offset		°
Applied Force, Pu	64.3	k
Anchor Rods, ϕPn	243.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	14.9	1187.0	1.00
Anchor Rod Forces	14.9	1187.0	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	49.5101	2.7506	0.0898		15901.92
Bolt	3.9761	3.2477	0.8393	4.5	20840.15
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Round	-
Diameter, D	65	in
Thickness, t	2.5	in
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Base Plate Chord	40.299	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	16	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	59	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	64.3	k
Applied Shear, Vu	0.6	k
Compressive Capacity, φPn	243.6	k
Tensile Capacity, φRnt	0.264	OK
Interaction Capacity	0.269	OK

External Base Plate		
Chord Length AA	34.183	in
Additional AA	5.000	in
Section Modulus, Z	61.224	in ³
Applied Moment, Mu	247.7	k-ft
Bending Capacity, φMn	2755.1	k-ft
Capacity, Mu/φMn	0.090	OK
Chord Length AB	32.973	in
Additional AB	5.000	in
Section Modulus, Z	59.333	in ³
Applied Moment, Mu	175.4	k-ft
Bending Capacity, φMn	2670.0	k-ft
Capacity, Mu/φMn	0.066	OK
Bend Line Length	38.055	in
Additional Bend Line	0.000	in
Section Modulus, Z	59.461	in ³
Applied Moment, Mu	247.7	k-ft
Bending Capacity, φMn	2675.7	k-ft
Capacity, Mu/φMn	0.093	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, φMn	0.0	k-ft
Capacity, Mu/φMn		



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(856) 371-9457

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10090849
GPD Project #: 2021740.468920.02
Maser Project #: 21781043

August 9, 2021

Site Information

Site ID: 468920-VZW / BLOOMFIELD BLUE HILLS CT
Site Name: BLOOMFIELD BLUE HILLS CT
Carrier Name: Verizon Wireless
Address: 811 Blue Hills Ave
Bloomfield, Connecticut 06002, Hartford County
Latitude: 41.809683°
Longitude: -72.696597°

Structure Information

Tower Type: 110-Ft Monopole
Mount Type: 12.00-Ft T-Arm

FUZE ID # 16502013

Analysis Results

T-Arm: 86.3% 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

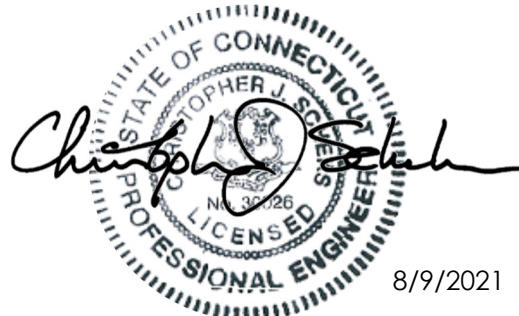
Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared by: Eric Nieto

Respectfully Submitted by:

Christopher J. Scheks, P.E.
Connecticut #: 0030026



8/9/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 674846, dated 7/20/2021
Desktop Mount Mapping Form	Colliers Engineering & Design, Project #: 21781043, dated 6/17/2021
Previous Mount Analysis Report	GPD Project #: 2021740.468920.01, dated 7/26/2021
Proposed Mount Modification Design	GPD Project #: 2021740.468920.02 Rev. 0, dated 8/9/2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 117 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.994
Seismic Parameters:	S_s : 0.184 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 : 250 lbs.*
Analysis Software:	*Reduced as allowed per ANSI/TIA-222-H 16.9 RISA-3D (V17.0.2)

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
105.00	107.00	3	Commscope	NHH-65B-R2B	Added
		3	Commscope	NHHSS-65B-R2BT2	
		3	Samsung	MT6407-77A	
		2	RFS	DB-B1-6C-12AB-0Z*	
		3	Samsung	CBRS RRH-RT-4401-48A*	
		3	Samsung	RF4439d-25A*	
		3	Samsung	RF4440d-13A*	
		6	Antel	LPA-80063/6CF 5	Retained

* Equipment to be flush mounted directly to the Monopole. They are not mounted on T-Arm mounts and are not included in this mount analysis.

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 GPD 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 GPD 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 TES, 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. GPD is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	31.3 %	Pass
Face Horizontal	25.8 %	Pass
Mount Pipe (P2 STD)	30.4 %	Pass
Mod Mount Pipe (P2.5 STD)	32.1 %	Pass
Mod Face Horizontal (P2 STD)	25.6 %	Pass
Mod Kickers	10.7 %	Pass
Mod Stabilizer Pipe	9.0 %	Pass
Mount Connection	86.3 %	Pass

Structure Rating – (Controlling Utilization of all Components)	86.3%*
---	---------------

***The mount has been found structurally adequate for all steel and external connection capacities. Serviceability in accordance with TIA-222-H Section 4.9.11.3 has not been considered.**

Recommendation:


The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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

Attachments:

1. Mount Photos
2. Desktop Mount Mapping Form (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption Wind Speed Letter

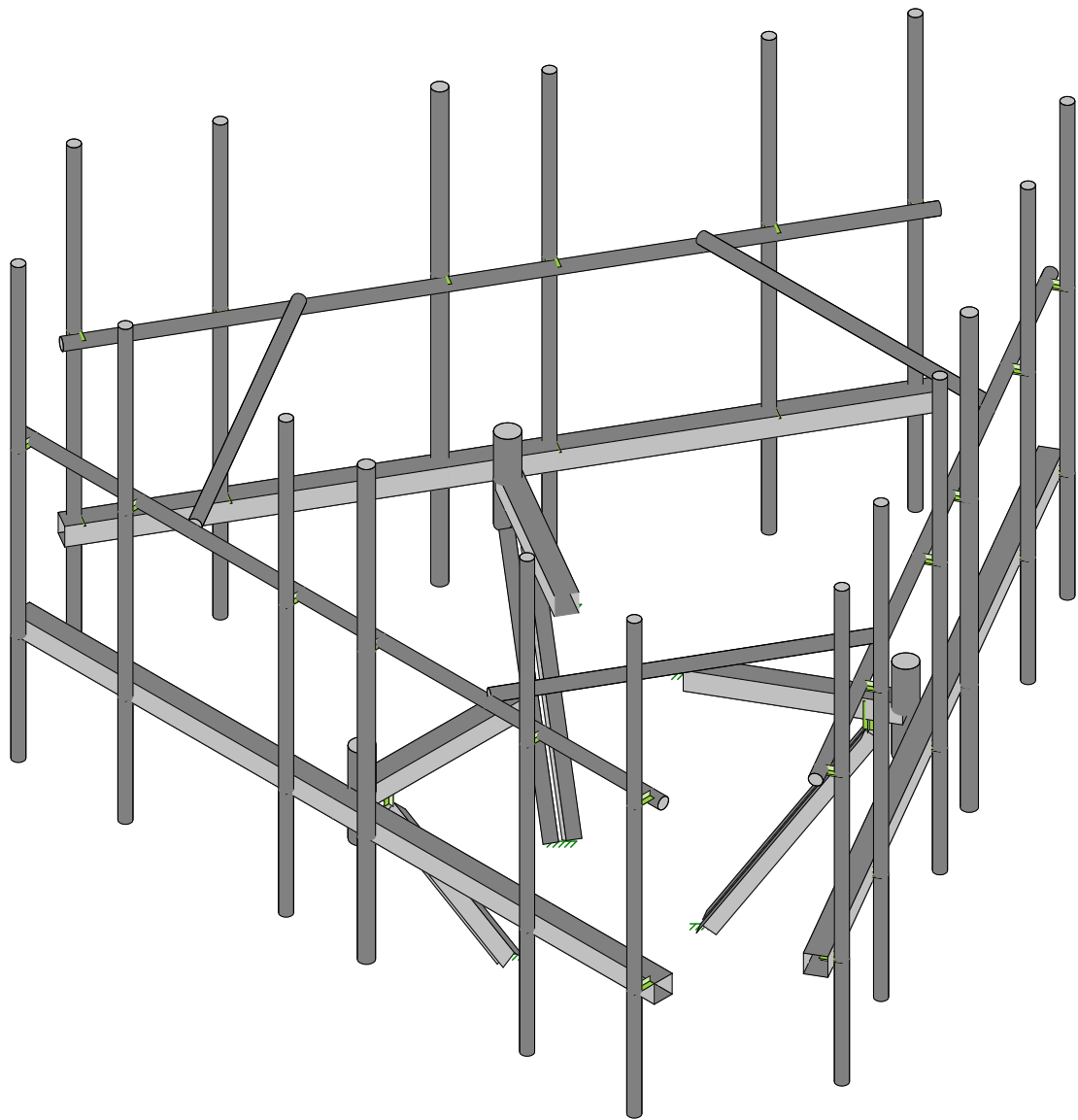
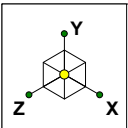


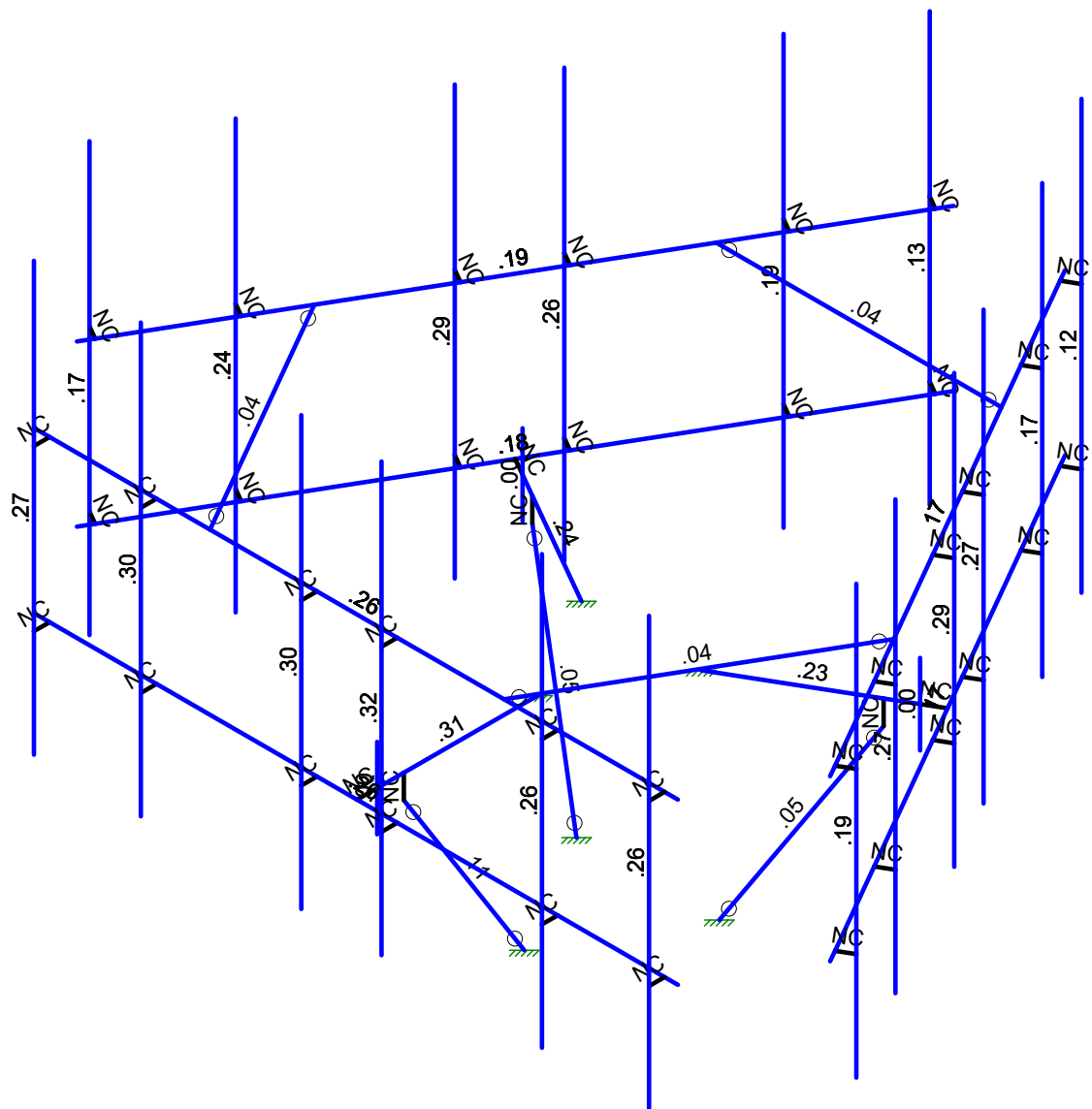
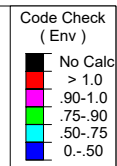
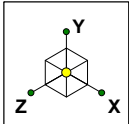
	Desktop Mount Mapping Form			
	Site Name:	BLOOMFIELD BLUE HILLS CT	Tower Type:	Monopole
	Site ID:	468920	Tower Owner:	Verizon
	FUZE Project ID:	16502013	Tower Height (Ft.):	
	Customer:	Verizon Wireless	Mount Elevation (Ft.):	
Colliers Project No.	21781043	Date:	6/17/2021	
<p>The information contained 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 Colliers Engineering & Design.</p>				

Document Type	Provided? (Yes/No)	Source Name	Project No.	Dated	Comments/Remarks
Previous Mount Mapping	No				
Previous Mapping Photos	No				
Previous Mount Analysis	No				
Previous Mount Modifications	No				
Previous Structural Analysis	Yes	American Tower	411187	1/25/2017	
Construction Drawings	Yes	OnAir Engineering		2/28/2017	
Closeout Package	No				
Closeout Photos	No				
Handover Package	No				
New Build 445 Documentation	No				
Other	Yes	Hudson Design Group		6/17/2021	Ground Photo Package
Previous PMI	No				

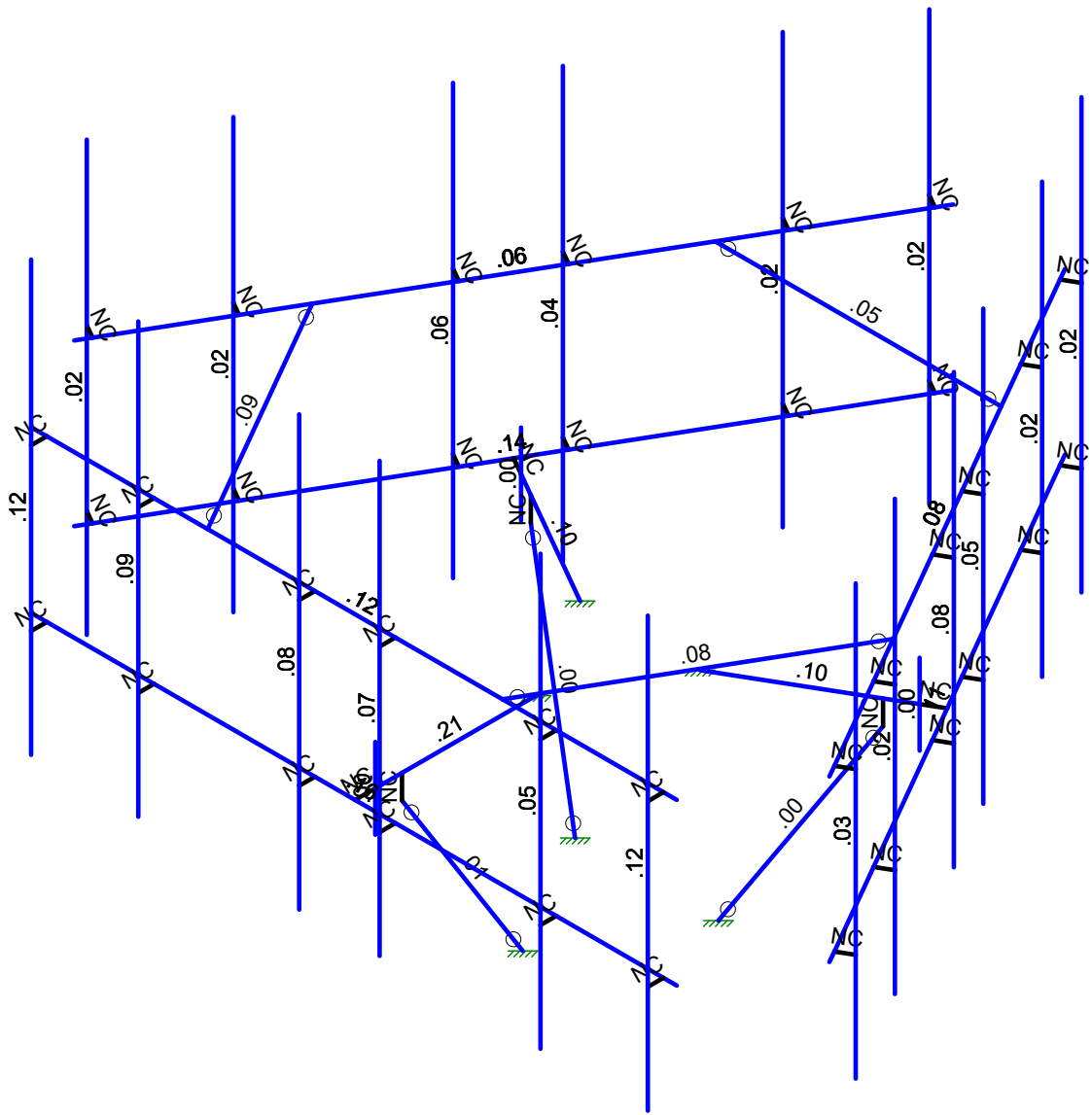
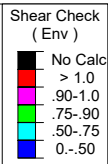
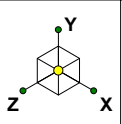
The **desktop mount mapping** is based on the engineering review of the available site documents in FUZE, as listed above, in place of a full mount mapping. It is assumed that the information provided in the documents listed above, provide an accurate representation of the existing mount. EOR reserves the right and will typically require additional clarification and verification as will be included in the PMI requirements. During the Post Modification Inspection (PMI) process, the GC on site will be required to confirm all questions, confirmations, and validations as posed by the EOR. The engineering review for this desktop mount mapping was performed in accordance to the ANSI/TIA-222-H requirements and Verizon's NSTD446 standard.







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



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



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

Aug 9, 2021
 1:16 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gra...	Y Gra...	Z Grav...	Joint	Point	Distrib...	Area(Member)	Surface(Plate/W...
1	Antenna D	None					30			
2	Antenna Di	None					30			
3	Antenna Wo (0 Deg)	None					30			
4	Antenna Wo (30 Deg)	None					30			
5	Antenna Wo (60 Deg)	None					30			
6	Antenna Wo (90 Deg)	None					30			
7	Antenna Wo (120 Deg)	None					30			
8	Antenna Wo (150 Deg)	None					30			
9	Antenna Wo (180 Deg)	None					30			
10	Antenna Wo (210 Deg)	None					30			
11	Antenna Wo (240 Deg)	None					30			
12	Antenna Wo (270 Deg)	None					30			
13	Antenna Wo (300 Deg)	None					30			
14	Antenna Wo (330 Deg)	None					30			
15	Antenna Wi (0 Deg)	None					30			
16	Antenna Wi (30 Deg)	None					30			
17	Antenna Wi (60 Deg)	None					30			
18	Antenna Wi (90 Deg)	None					30			
19	Antenna Wi (120 Deg)	None					30			
20	Antenna Wi (150 Deg)	None					30			
21	Antenna Wi (180 Deg)	None					30			
22	Antenna Wi (210 Deg)	None					30			
23	Antenna Wi (240 Deg)	None					30			
24	Antenna Wi (270 Deg)	None					30			
25	Antenna Wi (300 Deg)	None					30			
26	Antenna Wi (330 Deg)	None					30			
27	Antenna Wm (0 Deg)	None					30			
28	Antenna Wm (30 Deg)	None					30			
29	Antenna Wm (60 Deg)	None					30			
30	Antenna Wm (90 Deg)	None					30			
31	Antenna Wm (120 Deg)	None					30			
32	Antenna Wm (150 Deg)	None					30			
33	Antenna Wm (180 Deg)	None					30			
34	Antenna Wm (210 Deg)	None					30			
35	Antenna Wm (240 Deg)	None					30			
36	Antenna Wm (270 Deg)	None					30			
37	Antenna Wm (300 Deg)	None					30			
38	Antenna Wm (330 Deg)	None					30			
39	Structure D	None		-1						
40	Structure Di	None						36		
41	Structure Wo (0 Deg)	None						72		
42	Structure Wo (30 Deg)	None						72		
43	Structure Wo (60 Deg)	None						72		
44	Structure Wo (90 Deg)	None						72		
45	Structure Wo (120 Deg)	None						72		
46	Structure Wo (150 Deg)	None						72		
47	Structure Wo (180 Deg)	None						72		
48	Structure Wo (210 Deg)	None						72		
49	Structure Wo (240 Deg)	None						72		
50	Structure Wo (270 Deg)	None						72		
51	Structure Wo (300 Deg)	None						72		
52	Structure Wo (330 Deg)	None						72		
53	Structure Wi (0 Deg)	None						72		
54	Structure Wi (30 Deg)	None						72		
55	Structure Wi (60 Deg)	None						72		
56	Structure Wi (90 Deg)	None						72		



Basic Load Cases (Continued)

BLC Description	Category	X Gra...	Y Gra...	Z Grav...	Joint	Point	Distrib...	Area(Member)	Surface(Plate/W...
57 Structure Wi (120 Deg)	None						72		
58 Structure Wi (150 Deg)	None						72		
59 Structure Wi (180 Deg)	None						72		
60 Structure Wi (210 Deg)	None						72		
61 Structure Wi (240 Deg)	None						72		
62 Structure Wi (270 Deg)	None						72		
63 Structure Wi (300 Deg)	None						72		
64 Structure Wi (330 Deg)	None						72		
65 Structure Wm (0 Deg)	None						72		
66 Structure Wm (30 Deg)	None						72		
67 Structure Wm (60 Deg)	None						72		
68 Structure Wm (90 Deg)	None						72		
69 Structure Wm (120 Deg)	None						72		
70 Structure Wm (150 Deg)	None						72		
71 Structure Wm (180 Deg)	None						72		
72 Structure Wm (210 Deg)	None						72		
73 Structure Wm (240 Deg)	None						72		
74 Structure Wm (270 Deg)	None						72		
75 Structure Wm (300 Deg)	None						72		
76 Structure Wm (330 Deg)	None						72		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			

Load Combinations

Description	S...	PDel..	SRSSB...	Fa...B...	Fa...B...	BLC Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...
1 1.2D+1.0Wo (0 Deg)	Y...	Y	1	1.2	39	1.2	3	1	41	1							
2 1.2D+1.0Wo (30 Deg)	Y...	Y	1	1.2	39	1.2	4	1	42	1							
3 1.2D+1.0Wo (60 Deg)	Y...	Y	1	1.2	39	1.2	5	1	43	1							
4 1.2D+1.0Wo (90 Deg)	Y...	Y	1	1.2	39	1.2	6	1	44	1							
5 1.2D+1.0Wo (120 Deg)	Y...	Y	1	1.2	39	1.2	7	1	45	1							
6 1.2D+1.0Wo (150 Deg)	Y...	Y	1	1.2	39	1.2	8	1	46	1							
7 1.2D+1.0Wo (180 Deg)	Y...	Y	1	1.2	39	1.2	9	1	47	1							
8 1.2D+1.0Wo (210 Deg)	Y...	Y	1	1.2	39	1.2	10	1	48	1							
9 1.2D+1.0Wo (240 Deg)	Y...	Y	1	1.2	39	1.2	11	1	49	1							
10 1.2D+1.0Wo (270 Deg)	Y...	Y	1	1.2	39	1.2	12	1	50	1							
11 1.2D+1.0Wo (300 Deg)	Y...	Y	1	1.2	39	1.2	13	1	51	1							
12 1.2D+1.0Wo (330 Deg)	Y...	Y	1	1.2	39	1.2	14	1	52	1							
13 1.2D + 1.0Di + 1.0Wi (0 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14 1.2D + 1.0Di + 1.0Wi (30 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1			
15 1.2D + 1.0Di + 1.0Wi (60 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1			
16 1.2D + 1.0Di + 1.0Wi (90 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1			
17 1.2D + 1.0Di + 1.0Wi (120 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1			
18 1.2D + 1.0Di + 1.0Wi (150 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1			
19 1.2D + 1.0Di + 1.0Wi (180 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1			
20 1.2D + 1.0Di + 1.0Wi (210 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1			
21 1.2D + 1.0Di + 1.0Wi (240 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1			
22 1.2D + 1.0Di + 1.0Wi (270 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1			
23 1.2D + 1.0Di + 1.0Wi (300 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1			
24 1.2D + 1.0Di + 1.0Wi (330 Deg)	Y...	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1			
25 1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	27	1	65	1					
26 1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	28	1	66	1					
27 1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	29	1	67	1					
28 1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	30	1	68	1					



Load Combinations (Continued)

Description	S...	PDel...	SRSSB...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
29	1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	31	1	69	1								
30	1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	32	1	70	1								
31	1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	33	1	71	1								
32	1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	34	1	72	1								
33	1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	35	1	73	1								
34	1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	36	1	74	1								
35	1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	37	1	75	1								
36	1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	38	1	76	1								
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	27	1	65	1								
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	28	1	66	1								
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	29	1	67	1								
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	30	1	68	1								
41	1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	31	1	69	1								
42	1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	32	1	70	1								
43	1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	33	1	71	1								
44	1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	34	1	72	1								
45	1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	35	1	73	1								
46	1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	36	1	74	1								
47	1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	37	1	75	1								
48	1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	38	1	76	1								
49	1.2D + 1.5Lv1	Y...	Y	1	1.2	39	1.2	79	1.5												
50	1.2D + 1.5Lv2	Y...	Y	1	1.2	39	1.2	80	1.5												
51	1.4D	Y...	Y	1	1.4	39	1.4														
52	Seismic Mass		Y	1	1	39	1														
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y	1	1.2	39	1.2	SX		SY	1	SZ	-.1								
54	1.2D + 1.0Ev + 1.0Eh (30 Deg)		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...								
55	1.2D + 1.0Ev + 1.0Eh (60 Deg)		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5								
56	1.2D + 1.0Ev + 1.0Eh (90 Deg)		Y	1	1.2	39	1.2	SX	1	SY	1	SZ									
57	1.2D + 1.0Ev + 1.0Eh (120 Deg)		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	.5								
58	1.2D + 1.0Ev + 1.0Eh (150 Deg)		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.866								
59	1.2D + 1.0Ev + 1.0Eh (180 Deg)		Y	1	1.2	39	1.2	SX		SY	1	SZ	1								
60	1.2D + 1.0Ev + 1.0Eh (210 Deg)		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866								
61	1.2D + 1.0Ev + 1.0Eh (240 Deg)		Y	1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5								
62	1.2D + 1.0Ev + 1.0Eh (270 Deg)		Y	1	1.2	39	1.2	SX	-.1	SY	1	SZ									
63	1.2D + 1.0Ev + 1.0Eh (300 Deg)		Y	1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5								
64	1.2D + 1.0Ev + 1.0Eh (330 Deg)		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...								

Joint Coordinates and Temperatures

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	A1	-0.000003	0	1.166665	0
2	A2	-0.000003	0	4.166665	0
3	A3	-6.000003	0	4.541665	0
4	A4	5.999997	0	4.541665	0
5	A5	-5.750003	0	4.541665	0
6	A6	-5.750003	0	4.833332	0
7	A7	-3.750003	0	4.541665	0
8	A8	-3.750003	0	4.833332	0
9	A9	-0.750003	0	4.541665	0
10	A10	-0.750003	0	4.833332	0
11	A11	0.749997	0	4.541665	0
12	A12	0.749997	0	4.833332	0
13	A13	3.749997	0	4.541665	0
14	A14	3.749997	0	4.833332	0
15	A15	5.749997	0	4.541665	0
16	A16	5.749997	0	4.833332	0



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	A17	-0.000003	0	4.541665	0	
18	A18	0	.75	4.166665	0	
19	A19	0	-.75	4.166665	0	
20	A20	-5.750003	6	4.833332	0	
21	A21	-3.750003	6	4.833332	0	
22	A22	-0.750003	6	4.833332	0	
23	A23	0.749997	6	4.833332	0	
24	A24	3.749997	6	4.833332	0	
25	A25	5.749997	6	4.833332	0	
26	A26	-5.750003	-2	4.833332	0	
27	A27	-3.750003	-2	4.833332	0	
28	A28	-0.750003	-2	4.833332	0	
29	A29	0.749997	-2	4.833332	0	
30	A30	3.749997	-2	4.833332	0	
31	A31	5.749997	-2	4.833332	0	
32	N34	-6.000003	3	4.541665	0	
33	N35	5.999997	3	4.541665	0	
34	N36	-5.750003	3	4.541665	0	
35	N37	-5.750003	3	4.833332	0	
36	N38	-3.750003	3	4.541665	0	
37	N39	-3.750003	3	4.833332	0	
38	N40	-0.750003	3	4.541665	0	
39	N41	-0.750003	3	4.833332	0	
40	N42	0.749997	3	4.541665	0	
41	N43	0.749997	3	4.833332	0	
42	N44	3.749997	3	4.541665	0	
43	N45	3.749997	3	4.833332	0	
44	N46	5.749997	3	4.541665	0	
45	N47	5.749997	3	4.833332	0	
46	N67	-0.000003	-4	1.416665	0	
47	N68	-0.000003	0	3.666665	0	
48	N69	-0.000003	-0.447917	3.666665	0	
49	N72A	-0.000003	0	-0.125002	0	
50	N69A	-1.118619	0	-0.770835	0	
51	N70	-3.716691	0	-2.270833	0	
52	N71	-1.041455	0	-7.654487	0	
53	N72	-7.041455	0	2.737817	0	
54	N73A	-1.166455	0	-7.437981	0	
55	N74	-1.419045	0	-7.583814	0	
56	N75	-2.166455	0	-5.70593	0	
57	N76	-2.419045	0	-5.851764	0	
58	N77	-3.666455	0	-3.107854	0	
59	N78	-3.919045	0	-3.253687	0	
60	N79	-4.416455	0	-1.808816	0	
61	N80	-4.669045	0	-1.954649	0	
62	N81	-5.916455	0	0.78926	0	
63	N82	-6.169045	0	0.643427	0	
64	N83	-6.916455	0	2.521311	0	
65	N84	-7.169045	0	2.375478	0	
66	N85	-4.041455	0	-2.458335	0	
67	N86	-3.716696	.75	-2.270833	0	
68	N87	-3.716696	-.75	-2.270833	0	
69	N88	-1.419045	6	-7.583814	0	
70	N89	-2.419045	6	-5.851764	0	
71	N90	-3.919045	6	-3.253687	0	
72	N91	-4.669045	6	-1.954649	0	
73	N92	-6.169045	6	0.643427	0	



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap..
74	N93	-7.169045	6	2.375478	0	
75	N94	-1.419045	-2	-7.583814	0	
76	N95	-2.419045	-2	-5.851764	0	
77	N96	-3.919045	-2	-3.253687	0	
78	N97	-4.669045	-2	-1.954649	0	
79	N98	-6.169045	-2	0.643427	0	
80	N99	-7.169045	-2	2.375478	0	
81	N100	-1.041455	3	-7.654487	0	
82	N101	-7.041455	3	2.737817	0	
83	N102	-1.166455	3	-7.437981	0	
84	N103	-1.419045	3	-7.583814	0	
85	N104	-2.166455	3	-5.70593	0	
86	N105	-2.419045	3	-5.851764	0	
87	N106	-3.666455	3	-3.107854	0	
88	N107	-3.919045	3	-3.253687	0	
89	N108	-4.416455	3	-1.808816	0	
90	N109	-4.669045	3	-1.954649	0	
91	N110	-5.916455	3	0.78926	0	
92	N111	-6.169045	3	0.643427	0	
93	N112	-6.916455	3	2.521311	0	
94	N113	-7.169045	3	2.375478	0	
95	N132	-1.335125	-4	-0.895835	0	
96	N137	1.118613	0	-0.770835	0	
97	N138	3.716694	0	-2.270837	0	
98	N139	7.041449	0	2.737817	0	
99	N140	1.041449	0	-7.654487	0	
100	N141	6.916449	0	2.521311	0	
101	N142	7.16904	0	2.375478	0	
102	N143	5.916449	0	0.78926	0	
103	N144	6.16904	0	0.643427	0	
104	N145	4.416449	0	-1.808816	0	
105	N146	4.66904	0	-1.954649	0	
106	N147	3.666449	0	-3.107854	0	
107	N148	3.91904	0	-3.253687	0	
108	N149	2.166449	0	-5.70593	0	
109	N150	2.41904	0	-5.851764	0	
110	N151	1.166449	0	-7.437981	0	
111	N152	1.41904	0	-7.583814	0	
112	N153	4.041449	0	-2.458335	0	
113	N154	3.716688	.75	-2.270837	0	
114	N155	3.716688	-.75	-2.270837	0	
115	N156	7.16904	6	2.375478	0	
116	N157	6.16904	6	0.643427	0	
117	N158	4.66904	6	-1.954649	0	
118	N159	3.91904	6	-3.253687	0	
119	N160	2.41904	6	-5.851764	0	
120	N161	1.41904	6	-7.583814	0	
121	N162	7.16904	-2	2.375478	0	
122	N163	6.16904	-2	0.643427	0	
123	N164	4.66904	-2	-1.954649	0	
124	N165	3.91904	-2	-3.253687	0	
125	N166	2.41904	-2	-5.851764	0	
126	N167	1.41904	-2	-7.583814	0	
127	N168	7.041449	3	2.737817	0	
128	N169	1.041449	3	-7.654487	0	
129	N170	6.916449	3	2.521311	0	
130	N171	7.16904	3	2.375478	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
131	N172	5.916449	3	0.78926	0	
132	N173	6.16904	3	0.643427	0	
133	N174	4.416449	3	-1.808816	0	
134	N175	4.66904	3	-1.954649	0	
135	N176	3.666449	3	-3.107854	0	
136	N177	3.91904	3	-3.253687	0	
137	N178	2.166449	3	-5.70593	0	
138	N179	2.41904	3	-5.851764	0	
139	N180	1.166449	3	-7.437981	0	
140	N181	1.41904	3	-7.583814	0	
141	N200	1.33512	-4	-0.895835	0	
142	N203	-2.750003	3	4.541665	0	
143	N204A	2.749997	3	4.541665	0	
144	N205	-2.666456	3	-4.839902	0	
145	N206	-5.416455	3	-0.076765	0	
146	N207	5.416449	3	-0.076765	0	
147	N208	2.666451	3	-4.839902	0	
148	N152A	-3.283682	0	-2.020835	0	
149	N153A	-3.283682	-0.447917	-2.020835	0	
150	N155A	3.283677	0	-2.020835	0	
151	N156A	3.283677	-0.447917	-2.020835	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules A [in...lly [i...Jzz [i...J [in4]
1	Standoff Horizontal	HSS4X4X4	None	None	A500 Gr.B RE...	Typical 3.37 7.8 7.8 12.8
2	Standoff Vertical	PIPE 4.0	None	None	A53 Gr.B	Typical 2.96 6.82 6.82 13.6
3	Face Horizontal	HSS4X4X4	None	None	A500 Gr.B RE...	Typical 3.37 7.8 7.8 12.8
4	Mount Pipe (P2 STD)	PIPE 2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25
5	Mod Face Horizontal (P2 STD)	PIPE 2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25
6	Mod Mount Pipe (P2.5 STD)	PIPE 2.5	None	None	A53 Gr.B	Typical 1.61 1.45 1.45 2.89
7	Mod Kickers	LL3x3x3x3	None	None	A36 Gr.36	Typical 2.18 4.09 1.9 .027
8	Mod Stabilizer Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	.3	.65	.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	.3	.65	.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
9	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	A1	A1	A2			Standoff Horizontal	None	None	A500 Gr...	Typical
2	A2	A3	A4			Face Horizontal	None	None	A500 Gr...	Typical
3	A3	A5	A6			RIGID	None	None	RIGID	Typical
4	A4	A7	A8			RIGID	None	None	RIGID	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
5	A5	A9	A10			RIGID	None	None	RIGID	Typical
6	A6	A11	A12			RIGID	None	None	RIGID	Typical
7	A7	A13	A14			RIGID	None	None	RIGID	Typical
8	A8	A15	A16			RIGID	None	None	RIGID	Typical
9	A9	A2	A17			RIGID	None	None	RIGID	Typical
10	A10	A18	A19			Standoff Vertical	None	None	A53 Gr.B	Typical
11	MP1A	A25	A31			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
12	MP2A	A24	A30			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
13	MP3A	A23	A29			Mod Mount Pipe (P2.5 STD)	None	None	A53 Gr.B	Typical
14	MP3.5A	A22	A28			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
15	MP4A	A21	A27			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
16	MP5A	A20	A26			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
17	M18	N34	N35			Mod Face Horizontal (P2 ST...	None	None	A53 Gr.B	Typical
18	M19	N36	N37			RIGID	None	None	RIGID	Typical
19	M20	N38	N39			RIGID	None	None	RIGID	Typical
20	M21	N40	N41			RIGID	None	None	RIGID	Typical
21	M22	N42	N43			RIGID	None	None	RIGID	Typical
22	M23	N44	N45			RIGID	None	None	RIGID	Typical
23	M24	N46	N47			RIGID	None	None	RIGID	Typical
24	M34	N68	N69			RIGID	None	None	RIGID	Typical
25	M35	N69	N67			Mod Kickers	None	None	A36 Gr.36	Typical
26	M36A	N69A	N70			Standoff Horizontal	None	None	A500 Gr...	Typical
27	M37A	N71	N72			Face Horizontal	None	None	A500 Gr...	Typical
28	M38	N73A	N74			RIGID	None	None	RIGID	Typical
29	M39	N75	N76			RIGID	None	None	RIGID	Typical
30	M40	N77	N78			RIGID	None	None	RIGID	Typical
31	M41	N79	N80			RIGID	None	None	RIGID	Typical
32	M42	N81	N82			RIGID	None	None	RIGID	Typical
33	M43	N83	N84			RIGID	None	None	RIGID	Typical
34	M44	N70	N85			RIGID	None	None	RIGID	Typical
35	M45	N86	N87		120	Standoff Vertical	None	None	A53 Gr.B	Typical
36	MP1B	N93	N99			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
37	MP2B	N92	N98			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
38	MP3B	N91	N97			Mod Mount Pipe (P2.5 STD)	None	None	A53 Gr.B	Typical
39	MP3.5B	N90	N96			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
40	MP4B	N89	N95			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
41	MP5B	N88	N94			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
42	M52	N100	N101			Mod Face Horizontal (P2 ST...	None	None	A53 Gr.B	Typical
43	M53	N102	N103			RIGID	None	None	RIGID	Typical
44	M54	N104	N105			RIGID	None	None	RIGID	Typical
45	M55	N106	N107			RIGID	None	None	RIGID	Typical
46	M56	N108	N109			RIGID	None	None	RIGID	Typical
47	M57	N110	N111			RIGID	None	None	RIGID	Typical
48	M58	N112	N113			RIGID	None	None	RIGID	Typical
49	M68	N153A	N132			Mod Kickers	None	None	A36 Gr.36	Typical
50	M71	N137	N138			Standoff Horizontal	None	None	A500 Gr...	Typical
51	M72	N139	N140			Face Horizontal	None	None	A500 Gr...	Typical
52	M73	N141	N142			RIGID	None	None	RIGID	Typical
53	M74	N143	N144			RIGID	None	None	RIGID	Typical
54	M75	N145	N146			RIGID	None	None	RIGID	Typical
55	M76	N147	N148			RIGID	None	None	RIGID	Typical
56	M77	N149	N150			RIGID	None	None	RIGID	Typical
57	M78	N151	N152			RIGID	None	None	RIGID	Typical
58	M79	N138	N153			RIGID	None	None	RIGID	Typical
59	M80	N154	N155		240	Standoff Vertical	None	None	A53 Gr.B	Typical
60	MP1C	N161	N167			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
61	MP2C	N160	N166			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
62	MP3C	N159	N165			Mod Mount Pipe (P2.5 STD)	None	None	A53 Gr.B	Typical
63	MP3.5C	N158	N164			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
64	MP4C	N157	N163			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
65	MP5C	N156	N162			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
66	M87	N168	N169			Mod Face Horizontal (P2 ST...	None	None	A53 Gr.B	Typical
67	M88	N170	N171			RIGID	None	None	RIGID	Typical
68	M89	N172	N173			RIGID	None	None	RIGID	Typical
69	M90	N174	N175			RIGID	None	None	RIGID	Typical
70	M91	N176	N177			RIGID	None	None	RIGID	Typical
71	M92	N178	N179			RIGID	None	None	RIGID	Typical
72	M93	N180	N181			RIGID	None	None	RIGID	Typical
73	M103	N156A	N200			Mod Kickers	None	None	A36 Gr.36	Typical
74	M106	N203	N206			Mod Stabilizer Pipe	None	None	A53 Gr.B	Typical
75	M107	N205	N208			Mod Stabilizer Pipe	None	None	A53 Gr.B	Typical
76	M108	N207	N204A			Mod Stabilizer Pipe	None	None	A53 Gr.B	Typical
77	M79A	N152A	N153A		120	RIGID	None	None	RIGID	Typical
78	M80A	N155A	N156A		240	RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl	Ratio Opti...	Analysis Offs...	Inactive	Seismi...
1	A1						Yes	** NA **			None
2	A2						Yes	** NA **			None
3	A3						Yes	** NA **			None
4	A4						Yes	** NA **			None
5	A5						Yes	** NA **			None
6	A6						Yes	** NA **			None
7	A7						Yes	** NA **			None
8	A8						Yes	** NA **			None
9	A9						Yes	** NA **			None
10	A10						Yes	** NA **			None
11	MP1A						Yes	** NA **			None
12	MP2A						Yes	** NA **			None
13	MP3A						Yes	** NA **			None
14	MP3.5A						Yes	** NA **			None
15	MP4A						Yes	** NA **			None
16	MP5A						Yes	** NA **			None
17	M18						Yes	** NA **			None
18	M19						Yes	** NA **			None
19	M20						Yes	** NA **			None
20	M21						Yes	** NA **			None
21	M22						Yes	** NA **			None
22	M23						Yes	** NA **			None
23	M24						Yes	** NA **			None
24	M34						Yes	** NA **			None
25	M35	BenPIN	BenPIN				Yes	** NA **			None
26	M36A						Yes	** NA **			None
27	M37A						Yes	** NA **			None
28	M38						Yes	** NA **			None
29	M39						Yes	** NA **			None
30	M40						Yes	** NA **			None
31	M41						Yes	** NA **			None
32	M42						Yes	** NA **			None
33	M43						Yes	** NA **			None
34	M44						Yes	** NA **			None
35	M45						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl	Ratio Opti...	Analysis Offs...	Inactive	Seismi...
36	MP1B						Yes	** NA **			None
37	MP2B						Yes	** NA **			None
38	MP3B						Yes	** NA **			None
39	MP3.5B						Yes	** NA **			None
40	MP4B						Yes	** NA **			None
41	MP5B						Yes	** NA **			None
42	M52						Yes	** NA **			None
43	M53						Yes	** NA **			None
44	M54						Yes	** NA **			None
45	M55						Yes	** NA **			None
46	M56						Yes	** NA **			None
47	M57						Yes	** NA **			None
48	M58						Yes	** NA **			None
49	M68	BenPIN	BenPIN				Yes	** NA **			None
50	M71						Yes	** NA **			None
51	M72						Yes	** NA **			None
52	M73						Yes	** NA **			None
53	M74						Yes	** NA **			None
54	M75						Yes	** NA **			None
55	M76						Yes	** NA **			None
56	M77						Yes	** NA **			None
57	M78						Yes	** NA **			None
58	M79						Yes	** NA **			None
59	M80						Yes	** NA **			None
60	MP1C						Yes	** NA **			None
61	MP2C						Yes	** NA **			None
62	MP3C						Yes	** NA **			None
63	MP3.5C						Yes	** NA **			None
64	MP4C						Yes	** NA **			None
65	MP5C						Yes	** NA **			None
66	M87						Yes	** NA **			None
67	M88						Yes	** NA **			None
68	M89						Yes	** NA **			None
69	M90						Yes	** NA **			None
70	M91						Yes	** NA **			None
71	M92						Yes	** NA **			None
72	M93						Yes	** NA **			None
73	M103	BenPIN	BenPIN				Yes	** NA **			None
74	M106	BenPIN	BenPIN				Yes	** NA **	+y		None
75	M107	BenPIN	BenPIN				Yes	** NA **	+y		None
76	M108	BenPIN	BenPIN				Yes	** NA **	+y		None
77	M79A						Yes	** NA **			None
78	M80A						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-21.85	1.5
2	MP3A	My	-.018	1.5
3	MP3A	Mz	.013	1.5
4	MP3A	Y	-21.85	6.5
5	MP3A	My	-.018	6.5
6	MP3A	Mz	.013	6.5
7	MP3A	Y	-32.3	1.5
8	MP3A	My	-.027	1.5
9	MP3A	Mz	-.019	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
10	MP3A	Y	-32.3	6.5
11	MP3A	My	-.027	6.5
12	MP3A	Mz	-.019	6.5
13	MP4A	Y	-43.55	3.04
14	MP4A	My	-.036	3.04
15	MP4A	Mz	0	3.04
16	MP4A	Y	-43.55	4.96
17	MP4A	My	-.036	4.96
18	MP4A	Mz	0	4.96
19	MP1A	Y	-13.5	1.55
20	MP1A	My	-.013	1.55
21	MP1A	Mz	0	1.55
22	MP1A	Y	-13.5	6.45
23	MP1A	My	-.013	6.45
24	MP1A	Mz	0	6.45
25	MP5A	Y	-13.5	1.55
26	MP5A	My	-.013	1.55
27	MP5A	Mz	0	1.55
28	MP5A	Y	-13.5	6.45
29	MP5A	My	-.013	6.45
30	MP5A	Mz	0	6.45

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	-92.935	1.5
2	MP3A	My	-.077	1.5
3	MP3A	Mz	.054	1.5
4	MP3A	Y	-92.935	6.5
5	MP3A	My	-.077	6.5
6	MP3A	Mz	.054	6.5
7	MP3A	Y	-92.935	1.5
8	MP3A	My	-.077	1.5
9	MP3A	Mz	-.054	1.5
10	MP3A	Y	-92.935	6.5
11	MP3A	My	-.077	6.5
12	MP3A	Mz	-.054	6.5
13	MP4A	Y	-54.84	3.04
14	MP4A	My	-.046	3.04
15	MP4A	Mz	0	3.04
16	MP4A	Y	-54.84	4.96
17	MP4A	My	-.046	4.96
18	MP4A	Mz	0	4.96
19	MP1A	Y	-134.354	1.55
20	MP1A	My	-.134	1.55
21	MP1A	Mz	0	1.55
22	MP1A	Y	-134.354	6.45
23	MP1A	My	-.134	6.45
24	MP1A	Mz	0	6.45
25	MP5A	Y	-134.354	1.55
26	MP5A	My	-.134	1.55
27	MP5A	Mz	0	1.55
28	MP5A	Y	-134.354	6.45
29	MP5A	My	-.134	6.45
30	MP5A	Mz	0	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP3A	X	0	1.5
2	MP3A	Z	-154.534	1.5
3	MP3A	Mx	-.09	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	-154.534	6.5
6	MP3A	Mx	-.09	6.5
7	MP3A	X	0	1.5
8	MP3A	Z	-153.96	1.5
9	MP3A	Mx	.09	1.5
10	MP3A	X	0	6.5
11	MP3A	Z	-153.96	6.5
12	MP3A	Mx	.09	6.5
13	MP4A	X	0	3.04
14	MP4A	Z	-89.89	3.04
15	MP4A	Mx	0	3.04
16	MP4A	X	0	4.96
17	MP4A	Z	-89.89	4.96
18	MP4A	Mx	0	4.96
19	MP1A	X	0	1.55
20	MP1A	Z	-183.604	1.55
21	MP1A	Mx	0	1.55
22	MP1A	X	0	6.45
23	MP1A	Z	-183.604	6.45
24	MP1A	Mx	0	6.45
25	MP5A	X	0	1.55
26	MP5A	Z	-183.604	1.55
27	MP5A	Mx	0	1.55
28	MP5A	X	0	6.45
29	MP5A	Z	-183.604	6.45
30	MP5A	Mx	0	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP3A	X	70.72	1.5
2	MP3A	Z	-122.491	1.5
3	MP3A	Mx	-.13	1.5
4	MP3A	X	70.72	6.5
5	MP3A	Z	-122.491	6.5
6	MP3A	Mx	-.13	6.5
7	MP3A	X	70.505	1.5
8	MP3A	Z	-122.119	1.5
9	MP3A	Mx	.012	1.5
10	MP3A	X	70.505	6.5
11	MP3A	Z	-122.119	6.5
12	MP3A	Mx	.012	6.5
13	MP4A	X	38.108	3.04
14	MP4A	Z	-66.004	3.04
15	MP4A	Mx	-.032	3.04
16	MP4A	X	38.108	4.96
17	MP4A	Z	-66.004	4.96
18	MP4A	Mx	-.032	4.96
19	MP1A	X	89.351	1.55
20	MP1A	Z	-154.761	1.55
21	MP1A	Mx	-.089	1.55
22	MP1A	X	89.351	6.45
23	MP1A	Z	-154.761	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
24	MP1A	Mx	-.089	6.45
25	MP5A	X	89.351	1.55
26	MP5A	Z	-154.761	1.55
27	MP5A	Mx	-.089	1.55
28	MP5A	X	89.351	6.45
29	MP5A	Z	-154.761	6.45
30	MP5A	Mx	-.089	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	99.814	1.5
2	MP3A	Z	-57.627	1.5
3	MP3A	Mx	-.117	1.5
4	MP3A	X	99.814	6.5
5	MP3A	Z	-57.627	6.5
6	MP3A	Mx	-.117	6.5
7	MP3A	X	99.689	1.5
8	MP3A	Z	-57.556	1.5
9	MP3A	Mx	-.05	1.5
10	MP3A	X	99.689	6.5
11	MP3A	Z	-57.556	6.5
12	MP3A	Mx	-.05	6.5
13	MP4A	X	42.319	3.04
14	MP4A	Z	-24.433	3.04
15	MP4A	Mx	-.035	3.04
16	MP4A	X	42.319	4.96
17	MP4A	Z	-24.433	4.96
18	MP4A	Mx	-.035	4.96
19	MP1A	X	146.27	1.55
20	MP1A	Z	-84.449	1.55
21	MP1A	Mx	-.146	1.55
22	MP1A	X	146.27	6.45
23	MP1A	Z	-84.449	6.45
24	MP1A	Mx	-.146	6.45
25	MP5A	X	146.27	1.55
26	MP5A	Z	-84.449	1.55
27	MP5A	Mx	-.146	1.55
28	MP5A	X	146.27	6.45
29	MP5A	Z	-84.449	6.45
30	MP5A	Mx	-.146	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	102.162	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	-.085	1.5
4	MP3A	X	102.162	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-.085	6.5
7	MP3A	X	102.162	1.5
8	MP3A	Z	0	1.5
9	MP3A	Mx	-.085	1.5
10	MP3A	X	102.162	6.5
11	MP3A	Z	0	6.5
12	MP3A	Mx	-.085	6.5
13	MP4A	X	35.192	3.04



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
14	MP4A	Z	0	3.04
15	MP4A	Mx	-.029	3.04
16	MP4A	X	35.192	4.96
17	MP4A	Z	0	4.96
18	MP4A	Mx	-.029	4.96
19	MP1A	X	163.996	1.55
20	MP1A	Z	0	1.55
21	MP1A	Mx	-.164	1.55
22	MP1A	X	163.996	6.45
23	MP1A	Z	0	6.45
24	MP1A	Mx	-.164	6.45
25	MP5A	X	163.996	1.55
26	MP5A	Z	0	1.55
27	MP5A	Mx	-.164	1.55
28	MP5A	X	163.996	6.45
29	MP5A	Z	0	6.45
30	MP5A	Mx	-.164	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	99.814	1.5
2	MP3A	Z	57.627	1.5
3	MP3A	Mx	-.05	1.5
4	MP3A	X	99.814	6.5
5	MP3A	Z	57.627	6.5
6	MP3A	Mx	-.05	6.5
7	MP3A	X	99.689	1.5
8	MP3A	Z	57.556	1.5
9	MP3A	Mx	-.117	1.5
10	MP3A	X	99.689	6.5
11	MP3A	Z	57.556	6.5
12	MP3A	Mx	-.117	6.5
13	MP4A	X	42.319	3.04
14	MP4A	Z	24.433	3.04
15	MP4A	Mx	-.035	3.04
16	MP4A	X	42.319	4.96
17	MP4A	Z	24.433	4.96
18	MP4A	Mx	-.035	4.96
19	MP1A	X	146.27	1.55
20	MP1A	Z	84.449	1.55
21	MP1A	Mx	-.146	1.55
22	MP1A	X	146.27	6.45
23	MP1A	Z	84.449	6.45
24	MP1A	Mx	-.146	6.45
25	MP5A	X	146.27	1.55
26	MP5A	Z	84.449	1.55
27	MP5A	Mx	-.146	1.55
28	MP5A	X	146.27	6.45
29	MP5A	Z	84.449	6.45
30	MP5A	Mx	-.146	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	70.72	1.5
2	MP3A	Z	122.491	1.5
3	MP3A	Mx	.013	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
4	MP3A	X	70.72	6.5
5	MP3A	Z	122.491	6.5
6	MP3A	Mx	.013	6.5
7	MP3A	X	70.505	1.5
8	MP3A	Z	122.119	1.5
9	MP3A	Mx	-.13	1.5
10	MP3A	X	70.505	6.5
11	MP3A	Z	122.119	6.5
12	MP3A	Mx	-.13	6.5
13	MP4A	X	38.108	3.04
14	MP4A	Z	66.004	3.04
15	MP4A	Mx	-.032	3.04
16	MP4A	X	38.108	4.96
17	MP4A	Z	66.004	4.96
18	MP4A	Mx	-.032	4.96
19	MP1A	X	89.351	1.55
20	MP1A	Z	154.761	1.55
21	MP1A	Mx	-.089	1.55
22	MP1A	X	89.351	6.45
23	MP1A	Z	154.761	6.45
24	MP1A	Mx	-.089	6.45
25	MP5A	X	89.351	1.55
26	MP5A	Z	154.761	1.55
27	MP5A	Mx	-.089	1.55
28	MP5A	X	89.351	6.45
29	MP5A	Z	154.761	6.45
30	MP5A	Mx	-.089	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1.5
2	MP3A	Z	154.534	1.5
3	MP3A	Mx	.09	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	154.534	6.5
6	MP3A	Mx	.09	6.5
7	MP3A	X	0	1.5
8	MP3A	Z	153.96	1.5
9	MP3A	Mx	-.09	1.5
10	MP3A	X	0	6.5
11	MP3A	Z	153.96	6.5
12	MP3A	Mx	-.09	6.5
13	MP4A	X	0	3.04
14	MP4A	Z	89.89	3.04
15	MP4A	Mx	0	3.04
16	MP4A	X	0	4.96
17	MP4A	Z	89.89	4.96
18	MP4A	Mx	0	4.96
19	MP1A	X	0	1.55
20	MP1A	Z	183.604	1.55
21	MP1A	Mx	0	1.55
22	MP1A	X	0	6.45
23	MP1A	Z	183.604	6.45
24	MP1A	Mx	0	6.45
25	MP5A	X	0	1.55
26	MP5A	Z	183.604	1.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
27	MP5A	Mx	0	1.55
28	MP5A	X	0	6.45
29	MP5A	Z	183.604	6.45
30	MP5A	Mx	0	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-70.72	1.5
2	MP3A	Z	122.491	1.5
3	MP3A	Mx	.13	1.5
4	MP3A	X	-70.72	6.5
5	MP3A	Z	122.491	6.5
6	MP3A	Mx	.13	6.5
7	MP3A	X	-70.505	1.5
8	MP3A	Z	122.119	1.5
9	MP3A	Mx	-.012	1.5
10	MP3A	X	-70.505	6.5
11	MP3A	Z	122.119	6.5
12	MP3A	Mx	-.012	6.5
13	MP4A	X	-38.108	3.04
14	MP4A	Z	66.004	3.04
15	MP4A	Mx	.032	3.04
16	MP4A	X	-38.108	4.96
17	MP4A	Z	66.004	4.96
18	MP4A	Mx	.032	4.96
19	MP1A	X	-89.351	1.55
20	MP1A	Z	154.761	1.55
21	MP1A	Mx	.089	1.55
22	MP1A	X	-89.351	6.45
23	MP1A	Z	154.761	6.45
24	MP1A	Mx	.089	6.45
25	MP5A	X	-89.351	1.55
26	MP5A	Z	154.761	1.55
27	MP5A	Mx	.089	1.55
28	MP5A	X	-89.351	6.45
29	MP5A	Z	154.761	6.45
30	MP5A	Mx	.089	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-99.814	1.5
2	MP3A	Z	57.627	1.5
3	MP3A	Mx	.117	1.5
4	MP3A	X	-99.814	6.5
5	MP3A	Z	57.627	6.5
6	MP3A	Mx	.117	6.5
7	MP3A	X	-99.689	1.5
8	MP3A	Z	57.556	1.5
9	MP3A	Mx	.05	1.5
10	MP3A	X	-99.689	6.5
11	MP3A	Z	57.556	6.5
12	MP3A	Mx	.05	6.5
13	MP4A	X	-42.319	3.04
14	MP4A	Z	24.433	3.04
15	MP4A	Mx	.035	3.04
16	MP4A	X	-42.319	4.96



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
17	MP4A	Z	24.433	4.96
18	MP4A	Mx	.035	4.96
19	MP1A	X	-146.27	1.55
20	MP1A	Z	84.449	1.55
21	MP1A	Mx	.146	1.55
22	MP1A	X	-146.27	6.45
23	MP1A	Z	84.449	6.45
24	MP1A	Mx	.146	6.45
25	MP5A	X	-146.27	1.55
26	MP5A	Z	84.449	1.55
27	MP5A	Mx	.146	1.55
28	MP5A	X	-146.27	6.45
29	MP5A	Z	84.449	6.45
30	MP5A	Mx	.146	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-102.162	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	.085	1.5
4	MP3A	X	-102.162	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	.085	6.5
7	MP3A	X	-102.162	1.5
8	MP3A	Z	0	1.5
9	MP3A	Mx	.085	1.5
10	MP3A	X	-102.162	6.5
11	MP3A	Z	0	6.5
12	MP3A	Mx	.085	6.5
13	MP4A	X	-35.192	3.04
14	MP4A	Z	0	3.04
15	MP4A	Mx	.029	3.04
16	MP4A	X	-35.192	4.96
17	MP4A	Z	0	4.96
18	MP4A	Mx	.029	4.96
19	MP1A	X	-163.996	1.55
20	MP1A	Z	0	1.55
21	MP1A	Mx	.164	1.55
22	MP1A	X	-163.996	6.45
23	MP1A	Z	0	6.45
24	MP1A	Mx	.164	6.45
25	MP5A	X	-163.996	1.55
26	MP5A	Z	0	1.55
27	MP5A	Mx	.164	1.55
28	MP5A	X	-163.996	6.45
29	MP5A	Z	0	6.45
30	MP5A	Mx	.164	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-99.814	1.5
2	MP3A	Z	-57.627	1.5
3	MP3A	Mx	.05	1.5
4	MP3A	X	-99.814	6.5
5	MP3A	Z	-57.627	6.5
6	MP3A	Mx	.05	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
7	MP3A	X	-99.689	1.5
8	MP3A	Z	-57.556	1.5
9	MP3A	Mx	.117	1.5
10	MP3A	X	-99.689	6.5
11	MP3A	Z	-57.556	6.5
12	MP3A	Mx	.117	6.5
13	MP4A	X	-42.319	3.04
14	MP4A	Z	-24.433	3.04
15	MP4A	Mx	.035	3.04
16	MP4A	X	-42.319	4.96
17	MP4A	Z	-24.433	4.96
18	MP4A	Mx	.035	4.96
19	MP1A	X	-146.27	1.55
20	MP1A	Z	-84.449	1.55
21	MP1A	Mx	.146	1.55
22	MP1A	X	-146.27	6.45
23	MP1A	Z	-84.449	6.45
24	MP1A	Mx	.146	6.45
25	MP5A	X	-146.27	1.55
26	MP5A	Z	-84.449	1.55
27	MP5A	Mx	.146	1.55
28	MP5A	X	-146.27	6.45
29	MP5A	Z	-84.449	6.45
30	MP5A	Mx	.146	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-70.72	1.5
2	MP3A	Z	-122.491	1.5
3	MP3A	Mx	-.013	1.5
4	MP3A	X	-70.72	6.5
5	MP3A	Z	-122.491	6.5
6	MP3A	Mx	-.013	6.5
7	MP3A	X	-70.505	1.5
8	MP3A	Z	-122.119	1.5
9	MP3A	Mx	.13	1.5
10	MP3A	X	-70.505	6.5
11	MP3A	Z	-122.119	6.5
12	MP3A	Mx	.13	6.5
13	MP4A	X	-38.108	3.04
14	MP4A	Z	-66.004	3.04
15	MP4A	Mx	.032	3.04
16	MP4A	X	-38.108	4.96
17	MP4A	Z	-66.004	4.96
18	MP4A	Mx	.032	4.96
19	MP1A	X	-89.351	1.55
20	MP1A	Z	-154.761	1.55
21	MP1A	Mx	.089	1.55
22	MP1A	X	-89.351	6.45
23	MP1A	Z	-154.761	6.45
24	MP1A	Mx	.089	6.45
25	MP5A	X	-89.351	1.55
26	MP5A	Z	-154.761	1.55
27	MP5A	Mx	.089	1.55
28	MP5A	X	-89.351	6.45
29	MP5A	Z	-154.761	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
30	MP5A	Mx	.089	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1.5
2	MP3A	Z	-32.575	1.5
3	MP3A	Mx	-.019	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	-32.575	6.5
6	MP3A	Mx	-.019	6.5
7	MP3A	X	0	1.5
8	MP3A	Z	-32.575	1.5
9	MP3A	Mx	.019	1.5
10	MP3A	X	0	6.5
11	MP3A	Z	-32.575	6.5
12	MP3A	Mx	.019	6.5
13	MP4A	X	0	3.04
14	MP4A	Z	-19.576	3.04
15	MP4A	Mx	0	3.04
16	MP4A	X	0	4.96
17	MP4A	Z	-19.576	4.96
18	MP4A	Mx	0	4.96
19	MP1A	X	0	1.55
20	MP1A	Z	-38.089	1.55
21	MP1A	Mx	0	1.55
22	MP1A	X	0	6.45
23	MP1A	Z	-38.089	6.45
24	MP1A	Mx	0	6.45
25	MP5A	X	0	1.55
26	MP5A	Z	-38.089	1.55
27	MP5A	Mx	0	1.55
28	MP5A	X	0	6.45
29	MP5A	Z	-38.089	6.45
30	MP5A	Mx	0	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.074	1.5
2	MP3A	Z	-26.11	1.5
3	MP3A	Mx	-.028	1.5
4	MP3A	X	15.074	6.5
5	MP3A	Z	-26.11	6.5
6	MP3A	Mx	-.028	6.5
7	MP3A	X	15.074	1.5
8	MP3A	Z	-26.11	1.5
9	MP3A	Mx	.003	1.5
10	MP3A	X	15.074	6.5
11	MP3A	Z	-26.11	6.5
12	MP3A	Mx	.003	6.5
13	MP4A	X	8.424	3.04
14	MP4A	Z	-14.591	3.04
15	MP4A	Mx	-.007	3.04
16	MP4A	X	8.424	4.96
17	MP4A	Z	-14.591	4.96
18	MP4A	Mx	-.007	4.96
19	MP1A	X	18.58	1.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
20	MP1A	Z	-32.181	1.55
21	MP1A	Mx	-.019	1.55
22	MP1A	X	18.58	6.45
23	MP1A	Z	-32.181	6.45
24	MP1A	Mx	-.019	6.45
25	MP5A	X	18.58	1.55
26	MP5A	Z	-32.181	1.55
27	MP5A	Mx	-.019	1.55
28	MP5A	X	18.58	6.45
29	MP5A	Z	-32.181	6.45
30	MP5A	Mx	-.019	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	21.907	1.5
2	MP3A	Z	-12.648	1.5
3	MP3A	Mx	-.026	1.5
4	MP3A	X	21.907	6.5
5	MP3A	Z	-12.648	6.5
6	MP3A	Mx	-.026	6.5
7	MP3A	X	21.907	1.5
8	MP3A	Z	-12.648	1.5
9	MP3A	Mx	-.011	1.5
10	MP3A	X	21.907	6.5
11	MP3A	Z	-12.648	6.5
12	MP3A	Mx	-.011	6.5
13	MP4A	X	9.868	3.04
14	MP4A	Z	-5.697	3.04
15	MP4A	Mx	-.008	3.04
16	MP4A	X	9.868	4.96
17	MP4A	Z	-5.697	4.96
18	MP4A	Mx	-.008	4.96
19	MP1A	X	30.571	1.55
20	MP1A	Z	-17.65	1.55
21	MP1A	Mx	-.031	1.55
22	MP1A	X	30.571	6.45
23	MP1A	Z	-17.65	6.45
24	MP1A	Mx	-.031	6.45
25	MP5A	X	30.571	1.55
26	MP5A	Z	-17.65	1.55
27	MP5A	Mx	-.031	1.55
28	MP5A	X	30.571	6.45
29	MP5A	Z	-17.65	6.45
30	MP5A	Mx	-.031	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	22.87	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	-.019	1.5
4	MP3A	X	22.87	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-.019	6.5
7	MP3A	X	22.87	1.5
8	MP3A	Z	0	1.5
9	MP3A	Mx	-.019	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
10	MP3A	X	22.87	6.5
11	MP3A	Z	0	6.5
12	MP3A	Mx	-.019	6.5
13	MP4A	X	8.667	3.04
14	MP4A	Z	0	3.04
15	MP4A	Mx	-.007	3.04
16	MP4A	X	8.667	4.96
17	MP4A	Z	0	4.96
18	MP4A	Mx	-.007	4.96
19	MP1A	X	34.371	1.55
20	MP1A	Z	0	1.55
21	MP1A	Mx	-.034	1.55
22	MP1A	X	34.371	6.45
23	MP1A	Z	0	6.45
24	MP1A	Mx	-.034	6.45
25	MP5A	X	34.371	1.55
26	MP5A	Z	0	1.55
27	MP5A	Mx	-.034	1.55
28	MP5A	X	34.371	6.45
29	MP5A	Z	0	6.45
30	MP5A	Mx	-.034	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	21.907	1.5
2	MP3A	Z	12.648	1.5
3	MP3A	Mx	-.011	1.5
4	MP3A	X	21.907	6.5
5	MP3A	Z	12.648	6.5
6	MP3A	Mx	-.011	6.5
7	MP3A	X	21.907	1.5
8	MP3A	Z	12.648	1.5
9	MP3A	Mx	-.026	1.5
10	MP3A	X	21.907	6.5
11	MP3A	Z	12.648	6.5
12	MP3A	Mx	-.026	6.5
13	MP4A	X	9.868	3.04
14	MP4A	Z	5.697	3.04
15	MP4A	Mx	-.008	3.04
16	MP4A	X	9.868	4.96
17	MP4A	Z	5.697	4.96
18	MP4A	Mx	-.008	4.96
19	MP1A	X	30.571	1.55
20	MP1A	Z	17.65	1.55
21	MP1A	Mx	-.031	1.55
22	MP1A	X	30.571	6.45
23	MP1A	Z	17.65	6.45
24	MP1A	Mx	-.031	6.45
25	MP5A	X	30.571	1.55
26	MP5A	Z	17.65	1.55
27	MP5A	Mx	-.031	1.55
28	MP5A	X	30.571	6.45
29	MP5A	Z	17.65	6.45
30	MP5A	Mx	-.031	6.45



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.074	1.5
2	MP3A	Z	26.11	1.5
3	MP3A	Mx	.003	1.5
4	MP3A	X	15.074	6.5
5	MP3A	Z	26.11	6.5
6	MP3A	Mx	.003	6.5
7	MP3A	X	15.074	1.5
8	MP3A	Z	26.11	1.5
9	MP3A	Mx	-.028	1.5
10	MP3A	X	15.074	6.5
11	MP3A	Z	26.11	6.5
12	MP3A	Mx	-.028	6.5
13	MP4A	X	8.424	3.04
14	MP4A	Z	14.591	3.04
15	MP4A	Mx	-.007	3.04
16	MP4A	X	8.424	4.96
17	MP4A	Z	14.591	4.96
18	MP4A	Mx	-.007	4.96
19	MP1A	X	18.58	1.55
20	MP1A	Z	32.181	1.55
21	MP1A	Mx	-.019	1.55
22	MP1A	X	18.58	6.45
23	MP1A	Z	32.181	6.45
24	MP1A	Mx	-.019	6.45
25	MP5A	X	18.58	1.55
26	MP5A	Z	32.181	1.55
27	MP5A	Mx	-.019	1.55
28	MP5A	X	18.58	6.45
29	MP5A	Z	32.181	6.45
30	MP5A	Mx	-.019	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1.5
2	MP3A	Z	32.575	1.5
3	MP3A	Mx	.019	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	32.575	6.5
6	MP3A	Mx	.019	6.5
7	MP3A	X	0	1.5
8	MP3A	Z	32.575	1.5
9	MP3A	Mx	-.019	1.5
10	MP3A	X	0	6.5
11	MP3A	Z	32.575	6.5
12	MP3A	Mx	-.019	6.5
13	MP4A	X	0	3.04
14	MP4A	Z	19.576	3.04
15	MP4A	Mx	0	3.04
16	MP4A	X	0	4.96
17	MP4A	Z	19.576	4.96
18	MP4A	Mx	0	4.96
19	MP1A	X	0	1.55
20	MP1A	Z	38.089	1.55
21	MP1A	Mx	0	1.55
22	MP1A	X	0	6.45
23	MP1A	Z	38.089	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
24	MP1A	Mx	0	6.45
25	MP5A	X	0	1.55
26	MP5A	Z	38.089	1.55
27	MP5A	Mx	0	1.55
28	MP5A	X	0	6.45
29	MP5A	Z	38.089	6.45
30	MP5A	Mx	0	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-15.074	1.5
2	MP3A	Z	26.11	1.5
3	MP3A	Mx	.028	1.5
4	MP3A	X	-15.074	6.5
5	MP3A	Z	26.11	6.5
6	MP3A	Mx	.028	6.5
7	MP3A	X	-15.074	1.5
8	MP3A	Z	26.11	1.5
9	MP3A	Mx	-.003	1.5
10	MP3A	X	-15.074	6.5
11	MP3A	Z	26.11	6.5
12	MP3A	Mx	-.003	6.5
13	MP4A	X	-8.424	3.04
14	MP4A	Z	14.591	3.04
15	MP4A	Mx	.007	3.04
16	MP4A	X	-8.424	4.96
17	MP4A	Z	14.591	4.96
18	MP4A	Mx	.007	4.96
19	MP1A	X	-18.58	1.55
20	MP1A	Z	32.181	1.55
21	MP1A	Mx	.019	1.55
22	MP1A	X	-18.58	6.45
23	MP1A	Z	32.181	6.45
24	MP1A	Mx	.019	6.45
25	MP5A	X	-18.58	1.55
26	MP5A	Z	32.181	1.55
27	MP5A	Mx	.019	1.55
28	MP5A	X	-18.58	6.45
29	MP5A	Z	32.181	6.45
30	MP5A	Mx	.019	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-21.907	1.5
2	MP3A	Z	12.648	1.5
3	MP3A	Mx	.026	1.5
4	MP3A	X	-21.907	6.5
5	MP3A	Z	12.648	6.5
6	MP3A	Mx	.026	6.5
7	MP3A	X	-21.907	1.5
8	MP3A	Z	12.648	1.5
9	MP3A	Mx	.011	1.5
10	MP3A	X	-21.907	6.5
11	MP3A	Z	12.648	6.5
12	MP3A	Mx	.011	6.5
13	MP4A	X	-9.868	3.04



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
14	MP4A	Z	5.697	3.04
15	MP4A	Mx	.008	3.04
16	MP4A	X	-9.868	4.96
17	MP4A	Z	5.697	4.96
18	MP4A	Mx	.008	4.96
19	MP1A	X	-30.571	1.55
20	MP1A	Z	17.65	1.55
21	MP1A	Mx	.031	1.55
22	MP1A	X	-30.571	6.45
23	MP1A	Z	17.65	6.45
24	MP1A	Mx	.031	6.45
25	MP5A	X	-30.571	1.55
26	MP5A	Z	17.65	1.55
27	MP5A	Mx	.031	1.55
28	MP5A	X	-30.571	6.45
29	MP5A	Z	17.65	6.45
30	MP5A	Mx	.031	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-22.87	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	.019	1.5
4	MP3A	X	-22.87	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	.019	6.5
7	MP3A	X	-22.87	1.5
8	MP3A	Z	0	1.5
9	MP3A	Mx	.019	1.5
10	MP3A	X	-22.87	6.5
11	MP3A	Z	0	6.5
12	MP3A	Mx	.019	6.5
13	MP4A	X	-8.667	3.04
14	MP4A	Z	0	3.04
15	MP4A	Mx	.007	3.04
16	MP4A	X	-8.667	4.96
17	MP4A	Z	0	4.96
18	MP4A	Mx	.007	4.96
19	MP1A	X	-34.371	1.55
20	MP1A	Z	0	1.55
21	MP1A	Mx	.034	1.55
22	MP1A	X	-34.371	6.45
23	MP1A	Z	0	6.45
24	MP1A	Mx	.034	6.45
25	MP5A	X	-34.371	1.55
26	MP5A	Z	0	1.55
27	MP5A	Mx	.034	1.55
28	MP5A	X	-34.371	6.45
29	MP5A	Z	0	6.45
30	MP5A	Mx	.034	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-21.907	1.5
2	MP3A	Z	-12.648	1.5
3	MP3A	Mx	.011	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
4	MP3A	X	-21.907	6.5
5	MP3A	Z	-12.648	6.5
6	MP3A	Mx	.011	6.5
7	MP3A	X	-21.907	1.5
8	MP3A	Z	-12.648	1.5
9	MP3A	Mx	.026	1.5
10	MP3A	X	-21.907	6.5
11	MP3A	Z	-12.648	6.5
12	MP3A	Mx	.026	6.5
13	MP4A	X	-9.868	3.04
14	MP4A	Z	-5.697	3.04
15	MP4A	Mx	.008	3.04
16	MP4A	X	-9.868	4.96
17	MP4A	Z	-5.697	4.96
18	MP4A	Mx	.008	4.96
19	MP1A	X	-30.571	1.55
20	MP1A	Z	-17.65	1.55
21	MP1A	Mx	.031	1.55
22	MP1A	X	-30.571	6.45
23	MP1A	Z	-17.65	6.45
24	MP1A	Mx	.031	6.45
25	MP5A	X	-30.571	1.55
26	MP5A	Z	-17.65	1.55
27	MP5A	Mx	.031	1.55
28	MP5A	X	-30.571	6.45
29	MP5A	Z	-17.65	6.45
30	MP5A	Mx	.031	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-15.074	1.5
2	MP3A	Z	-26.11	1.5
3	MP3A	Mx	-.003	1.5
4	MP3A	X	-15.074	6.5
5	MP3A	Z	-26.11	6.5
6	MP3A	Mx	-.003	6.5
7	MP3A	X	-15.074	1.5
8	MP3A	Z	-26.11	1.5
9	MP3A	Mx	.028	1.5
10	MP3A	X	-15.074	6.5
11	MP3A	Z	-26.11	6.5
12	MP3A	Mx	.028	6.5
13	MP4A	X	-8.424	3.04
14	MP4A	Z	-14.591	3.04
15	MP4A	Mx	.007	3.04
16	MP4A	X	-8.424	4.96
17	MP4A	Z	-14.591	4.96
18	MP4A	Mx	.007	4.96
19	MP1A	X	-18.58	1.55
20	MP1A	Z	-32.181	1.55
21	MP1A	Mx	.019	1.55
22	MP1A	X	-18.58	6.45
23	MP1A	Z	-32.181	6.45
24	MP1A	Mx	.019	6.45
25	MP5A	X	-18.58	1.55
26	MP5A	Z	-32.181	1.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
27	MP5A	Mx	.019	1.55
28	MP5A	X	-18.58	6.45
29	MP5A	Z	-32.181	6.45
30	MP5A	Mx	.019	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1.5
2	MP3A	Z	-10.16	1.5
3	MP3A	Mx	-.006	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	-10.16	6.5
6	MP3A	Mx	-.006	6.5
7	MP3A	X	0	1.5
8	MP3A	Z	-10.122	1.5
9	MP3A	Mx	.006	1.5
10	MP3A	X	0	6.5
11	MP3A	Z	-10.122	6.5
12	MP3A	Mx	.006	6.5
13	MP4A	X	0	3.04
14	MP4A	Z	-5.91	3.04
15	MP4A	Mx	0	3.04
16	MP4A	X	0	4.96
17	MP4A	Z	-5.91	4.96
18	MP4A	Mx	0	4.96
19	MP1A	X	0	1.55
20	MP1A	Z	-12.071	1.55
21	MP1A	Mx	0	1.55
22	MP1A	X	0	6.45
23	MP1A	Z	-12.071	6.45
24	MP1A	Mx	0	6.45
25	MP5A	X	0	1.55
26	MP5A	Z	-12.071	1.55
27	MP5A	Mx	0	1.55
28	MP5A	X	0	6.45
29	MP5A	Z	-12.071	6.45
30	MP5A	Mx	0	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	4.65	1.5
2	MP3A	Z	-8.053	1.5
3	MP3A	Mx	-.009	1.5
4	MP3A	X	4.65	6.5
5	MP3A	Z	-8.053	6.5
6	MP3A	Mx	-.009	6.5
7	MP3A	X	4.635	1.5
8	MP3A	Z	-8.029	1.5
9	MP3A	Mx	.000821	1.5
10	MP3A	X	4.635	6.5
11	MP3A	Z	-8.029	6.5
12	MP3A	Mx	.000821	6.5
13	MP4A	X	2.505	3.04
14	MP4A	Z	-4.34	3.04
15	MP4A	Mx	-.002	3.04
16	MP4A	X	2.505	4.96



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
17	MP4A	Z	-4.34	4.96
18	MP4A	Mx	-.002	4.96
19	MP1A	X	5.874	1.55
20	MP1A	Z	-10.175	1.55
21	MP1A	Mx	-.006	1.55
22	MP1A	X	5.874	6.45
23	MP1A	Z	-10.175	6.45
24	MP1A	Mx	-.006	6.45
25	MP5A	X	5.874	1.55
26	MP5A	Z	-10.175	1.55
27	MP5A	Mx	-.006	1.55
28	MP5A	X	5.874	6.45
29	MP5A	Z	-10.175	6.45
30	MP5A	Mx	-.006	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	6.562	1.5
2	MP3A	Z	-3.789	1.5
3	MP3A	Mx	-.008	1.5
4	MP3A	X	6.562	6.5
5	MP3A	Z	-3.789	6.5
6	MP3A	Mx	-.008	6.5
7	MP3A	X	6.554	1.5
8	MP3A	Z	-3.784	1.5
9	MP3A	Mx	-.003	1.5
10	MP3A	X	6.554	6.5
11	MP3A	Z	-3.784	6.5
12	MP3A	Mx	-.003	6.5
13	MP4A	X	2.782	3.04
14	MP4A	Z	-1.606	3.04
15	MP4A	Mx	-.002	3.04
16	MP4A	X	2.782	4.96
17	MP4A	Z	-1.606	4.96
18	MP4A	Mx	-.002	4.96
19	MP1A	X	9.617	1.55
20	MP1A	Z	-5.552	1.55
21	MP1A	Mx	-.01	1.55
22	MP1A	X	9.617	6.45
23	MP1A	Z	-5.552	6.45
24	MP1A	Mx	-.01	6.45
25	MP5A	X	9.617	1.55
26	MP5A	Z	-5.552	1.55
27	MP5A	Mx	-.01	1.55
28	MP5A	X	9.617	6.45
29	MP5A	Z	-5.552	6.45
30	MP5A	Mx	-.01	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	6.717	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	-.006	1.5
4	MP3A	X	6.717	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-.006	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
7	MP3A	X	6.717	1.5
8	MP3A	Z	0	1.5
9	MP3A	Mx	-.006	1.5
10	MP3A	X	6.717	6.5
11	MP3A	Z	0	6.5
12	MP3A	Mx	-.006	6.5
13	MP4A	X	2.314	3.04
14	MP4A	Z	0	3.04
15	MP4A	Mx	-.002	3.04
16	MP4A	X	2.314	4.96
17	MP4A	Z	0	4.96
18	MP4A	Mx	-.002	4.96
19	MP1A	X	10.782	1.55
20	MP1A	Z	0	1.55
21	MP1A	Mx	-.011	1.55
22	MP1A	X	10.782	6.45
23	MP1A	Z	0	6.45
24	MP1A	Mx	-.011	6.45
25	MP5A	X	10.782	1.55
26	MP5A	Z	0	1.55
27	MP5A	Mx	-.011	1.55
28	MP5A	X	10.782	6.45
29	MP5A	Z	0	6.45
30	MP5A	Mx	-.011	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.562	1.5
2	MP3A	Z	3.789	1.5
3	MP3A	Mx	-.003	1.5
4	MP3A	X	6.562	6.5
5	MP3A	Z	3.789	6.5
6	MP3A	Mx	-.003	6.5
7	MP3A	X	6.554	1.5
8	MP3A	Z	3.784	1.5
9	MP3A	Mx	-.008	1.5
10	MP3A	X	6.554	6.5
11	MP3A	Z	3.784	6.5
12	MP3A	Mx	-.008	6.5
13	MP4A	X	2.782	3.04
14	MP4A	Z	1.606	3.04
15	MP4A	Mx	-.002	3.04
16	MP4A	X	2.782	4.96
17	MP4A	Z	1.606	4.96
18	MP4A	Mx	-.002	4.96
19	MP1A	X	9.617	1.55
20	MP1A	Z	5.552	1.55
21	MP1A	Mx	-.01	1.55
22	MP1A	X	9.617	6.45
23	MP1A	Z	5.552	6.45
24	MP1A	Mx	-.01	6.45
25	MP5A	X	9.617	1.55
26	MP5A	Z	5.552	1.55
27	MP5A	Mx	-.01	1.55
28	MP5A	X	9.617	6.45
29	MP5A	Z	5.552	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
30	MP5A	Mx	-.01	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	4.65	1.5
2	MP3A	Z	8.053	1.5
3	MP3A	Mx	.000823	1.5
4	MP3A	X	4.65	6.5
5	MP3A	Z	8.053	6.5
6	MP3A	Mx	.000823	6.5
7	MP3A	X	4.635	1.5
8	MP3A	Z	8.029	1.5
9	MP3A	Mx	-.009	1.5
10	MP3A	X	4.635	6.5
11	MP3A	Z	8.029	6.5
12	MP3A	Mx	-.009	6.5
13	MP4A	X	2.505	3.04
14	MP4A	Z	4.34	3.04
15	MP4A	Mx	-.002	3.04
16	MP4A	X	2.505	4.96
17	MP4A	Z	4.34	4.96
18	MP4A	Mx	-.002	4.96
19	MP1A	X	5.874	1.55
20	MP1A	Z	10.175	1.55
21	MP1A	Mx	-.006	1.55
22	MP1A	X	5.874	6.45
23	MP1A	Z	10.175	6.45
24	MP1A	Mx	-.006	6.45
25	MP5A	X	5.874	1.55
26	MP5A	Z	10.175	1.55
27	MP5A	Mx	-.006	1.55
28	MP5A	X	5.874	6.45
29	MP5A	Z	10.175	6.45
30	MP5A	Mx	-.006	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1.5
2	MP3A	Z	10.16	1.5
3	MP3A	Mx	.006	1.5
4	MP3A	X	0	6.5
5	MP3A	Z	10.16	6.5
6	MP3A	Mx	.006	6.5
7	MP3A	X	0	1.5
8	MP3A	Z	10.122	1.5
9	MP3A	Mx	-.006	1.5
10	MP3A	X	0	6.5
11	MP3A	Z	10.122	6.5
12	MP3A	Mx	-.006	6.5
13	MP4A	X	0	3.04
14	MP4A	Z	5.91	3.04
15	MP4A	Mx	0	3.04
16	MP4A	X	0	4.96
17	MP4A	Z	5.91	4.96
18	MP4A	Mx	0	4.96
19	MP1A	X	0	1.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
20	MP1A	Z	12.071	1.55
21	MP1A	Mx	0	1.55
22	MP1A	X	0	6.45
23	MP1A	Z	12.071	6.45
24	MP1A	Mx	0	6.45
25	MP5A	X	0	1.55
26	MP5A	Z	12.071	1.55
27	MP5A	Mx	0	1.55
28	MP5A	X	0	6.45
29	MP5A	Z	12.071	6.45
30	MP5A	Mx	0	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-4.65	1.5
2	MP3A	Z	8.053	1.5
3	MP3A	Mx	.009	1.5
4	MP3A	X	-4.65	6.5
5	MP3A	Z	8.053	6.5
6	MP3A	Mx	.009	6.5
7	MP3A	X	-4.635	1.5
8	MP3A	Z	8.029	1.5
9	MP3A	Mx	-.000821	1.5
10	MP3A	X	-4.635	6.5
11	MP3A	Z	8.029	6.5
12	MP3A	Mx	-.000821	6.5
13	MP4A	X	-2.505	3.04
14	MP4A	Z	4.34	3.04
15	MP4A	Mx	.002	3.04
16	MP4A	X	-2.505	4.96
17	MP4A	Z	4.34	4.96
18	MP4A	Mx	.002	4.96
19	MP1A	X	-5.874	1.55
20	MP1A	Z	10.175	1.55
21	MP1A	Mx	.006	1.55
22	MP1A	X	-5.874	6.45
23	MP1A	Z	10.175	6.45
24	MP1A	Mx	.006	6.45
25	MP5A	X	-5.874	1.55
26	MP5A	Z	10.175	1.55
27	MP5A	Mx	.006	1.55
28	MP5A	X	-5.874	6.45
29	MP5A	Z	10.175	6.45
30	MP5A	Mx	.006	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-6.562	1.5
2	MP3A	Z	3.789	1.5
3	MP3A	Mx	.008	1.5
4	MP3A	X	-6.562	6.5
5	MP3A	Z	3.789	6.5
6	MP3A	Mx	.008	6.5
7	MP3A	X	-6.554	1.5
8	MP3A	Z	3.784	1.5
9	MP3A	Mx	.003	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
10	MP3A	X	-6.554	6.5
11	MP3A	Z	3.784	6.5
12	MP3A	Mx	.003	6.5
13	MP4A	X	-2.782	3.04
14	MP4A	Z	1.606	3.04
15	MP4A	Mx	.002	3.04
16	MP4A	X	-2.782	4.96
17	MP4A	Z	1.606	4.96
18	MP4A	Mx	.002	4.96
19	MP1A	X	-9.617	1.55
20	MP1A	Z	5.552	1.55
21	MP1A	Mx	.01	1.55
22	MP1A	X	-9.617	6.45
23	MP1A	Z	5.552	6.45
24	MP1A	Mx	.01	6.45
25	MP5A	X	-9.617	1.55
26	MP5A	Z	5.552	1.55
27	MP5A	Mx	.01	1.55
28	MP5A	X	-9.617	6.45
29	MP5A	Z	5.552	6.45
30	MP5A	Mx	.01	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-6.717	1.5
2	MP3A	Z	0	1.5
3	MP3A	Mx	.006	1.5
4	MP3A	X	-6.717	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	.006	6.5
7	MP3A	X	-6.717	1.5
8	MP3A	Z	0	1.5
9	MP3A	Mx	.006	1.5
10	MP3A	X	-6.717	6.5
11	MP3A	Z	0	6.5
12	MP3A	Mx	.006	6.5
13	MP4A	X	-2.314	3.04
14	MP4A	Z	0	3.04
15	MP4A	Mx	.002	3.04
16	MP4A	X	-2.314	4.96
17	MP4A	Z	0	4.96
18	MP4A	Mx	.002	4.96
19	MP1A	X	-10.782	1.55
20	MP1A	Z	0	1.55
21	MP1A	Mx	.011	1.55
22	MP1A	X	-10.782	6.45
23	MP1A	Z	0	6.45
24	MP1A	Mx	.011	6.45
25	MP5A	X	-10.782	1.55
26	MP5A	Z	0	1.55
27	MP5A	Mx	.011	1.55
28	MP5A	X	-10.782	6.45
29	MP5A	Z	0	6.45
30	MP5A	Mx	.011	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP3A	X	-6.562	1.5
2	MP3A	Z	-3.789	1.5
3	MP3A	Mx	.003	1.5
4	MP3A	X	-6.562	6.5
5	MP3A	Z	-3.789	6.5
6	MP3A	Mx	.003	6.5
7	MP3A	X	-6.554	1.5
8	MP3A	Z	-3.784	1.5
9	MP3A	Mx	.008	1.5
10	MP3A	X	-6.554	6.5
11	MP3A	Z	-3.784	6.5
12	MP3A	Mx	.008	6.5
13	MP4A	X	-2.782	3.04
14	MP4A	Z	-1.606	3.04
15	MP4A	Mx	.002	3.04
16	MP4A	X	-2.782	4.96
17	MP4A	Z	-1.606	4.96
18	MP4A	Mx	.002	4.96
19	MP1A	X	-9.617	1.55
20	MP1A	Z	-5.552	1.55
21	MP1A	Mx	.01	1.55
22	MP1A	X	-9.617	6.45
23	MP1A	Z	-5.552	6.45
24	MP1A	Mx	.01	6.45
25	MP5A	X	-9.617	1.55
26	MP5A	Z	-5.552	1.55
27	MP5A	Mx	.01	1.55
28	MP5A	X	-9.617	6.45
29	MP5A	Z	-5.552	6.45
30	MP5A	Mx	.01	6.45

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP3A	X	-4.65	1.5
2	MP3A	Z	-8.053	1.5
3	MP3A	Mx	-.000823	1.5
4	MP3A	X	-4.65	6.5
5	MP3A	Z	-8.053	6.5
6	MP3A	Mx	-.000823	6.5
7	MP3A	X	-4.635	1.5
8	MP3A	Z	-8.029	1.5
9	MP3A	Mx	.009	1.5
10	MP3A	X	-4.635	6.5
11	MP3A	Z	-8.029	6.5
12	MP3A	Mx	.009	6.5
13	MP4A	X	-2.505	3.04
14	MP4A	Z	-4.34	3.04
15	MP4A	Mx	.002	3.04
16	MP4A	X	-2.505	4.96
17	MP4A	Z	-4.34	4.96
18	MP4A	Mx	.002	4.96
19	MP1A	X	-5.874	1.55
20	MP1A	Z	-10.175	1.55
21	MP1A	Mx	.006	1.55
22	MP1A	X	-5.874	6.45
23	MP1A	Z	-10.175	6.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP1A	Mx	.006	6.45
25	MP5A	X	-5.874	1.55
26	MP5A	Z	-10.175	1.55
27	MP5A	Mx	.006	1.55
28	MP5A	X	-5.874	6.45
29	MP5A	Z	-10.175	6.45
30	MP5A	Mx	.006	6.45

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A2	Y	-250	%56

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A2	Y	-250	%98

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A2	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	A2	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	Y	-15.104	-15.104	0	%100
2	A2	Y	-15.104	-15.104	0	%100
3	A10	Y	-12.724	-12.724	0	%100
4	MP1A	Y	-8.351	-8.351	0	%100
5	MP2A	Y	-8.351	-8.351	0	%100
6	MP3A	Y	-9.38	-9.38	0	%100
7	MP3.5A	Y	-8.351	-8.351	0	%100
8	MP4A	Y	-8.351	-8.351	0	%100
9	MP5A	Y	-8.351	-8.351	0	%100
10	M18	Y	-8.351	-8.351	0	%100
11	M35	Y	-16.581	-16.581	0	%100
12	M36A	Y	-15.104	-15.104	0	%100
13	M37A	Y	-15.104	-15.104	0	%100
14	M45	Y	-12.724	-12.724	0	%100
15	MP1B	Y	-8.351	-8.351	0	%100
16	MP2B	Y	-8.351	-8.351	0	%100
17	MP3B	Y	-9.38	-9.38	0	%100
18	MP3.5B	Y	-8.351	-8.351	0	%100
19	MP4B	Y	-8.351	-8.351	0	%100
20	MP5B	Y	-8.351	-8.351	0	%100
21	M52	Y	-8.351	-8.351	0	%100
22	M68	Y	-16.581	-16.581	0	%100
23	M71	Y	-15.104	-15.104	0	%100
24	M72	Y	-15.104	-15.104	0	%100
25	M80	Y	-12.724	-12.724	0	%100
26	MP1C	Y	-8.351	-8.351	0	%100
27	MP2C	Y	-8.351	-8.351	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
28	MP3C	Y	-9.38	-9.38	0	%100
29	MP3.5C	Y	-8.351	-8.351	0	%100
30	MP4C	Y	-8.351	-8.351	0	%100
31	MP5C	Y	-8.351	-8.351	0	%100
32	M87	Y	-8.351	-8.351	0	%100
33	M103	Y	-16.581	-16.581	0	%100
34	M106	Y	-8.351	-8.351	0	%100
35	M107	Y	-8.351	-8.351	0	%100
36	M108	Y	-8.351	-8.351	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-15.875	-15.875	0	%100
5	A10	X	0	0	0	%100
6	A10	Z	-9.397	-9.397	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-9.049	-9.049	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-9.049	-9.049	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-10.954	-10.954	0	%100
13	MP3.5A	X	0	0	0	%100
14	MP3.5A	Z	-9.049	-9.049	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-9.049	-9.049	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	-9.049	-9.049	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	-9.049	-9.049	0	%100
21	M35	X	0	0	0	%100
22	M35	Z	-20.663	-20.663	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	-8.943	-8.943	0	%100
25	M37A	X	0	0	0	%100
26	M37A	Z	-3.969	-3.969	0	%100
27	M45	X	0	0	0	%100
28	M45	Z	-9.397	-9.397	0	%100
29	MP1B	X	0	0	0	%100
30	MP1B	Z	-9.049	-9.049	0	%100
31	MP2B	X	0	0	0	%100
32	MP2B	Z	-9.049	-9.049	0	%100
33	MP3B	X	0	0	0	%100
34	MP3B	Z	-10.954	-10.954	0	%100
35	MP3.5B	X	0	0	0	%100
36	MP3.5B	Z	-9.049	-9.049	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	-9.049	-9.049	0	%100
39	MP5B	X	0	0	0	%100
40	MP5B	Z	-9.049	-9.049	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	-2.262	-2.262	0	%100
43	M68	X	0	0	0	%100
44	M68	Z	-17.505	-17.505	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	0	0	0	%100
46	M71	Z	-8.943	-8.943	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	-3.969	-3.969	0	%100
49	M80	X	0	0	0	%100
50	M80	Z	-9.397	-9.397	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	-9.049	-9.049	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	-9.049	-9.049	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	-10.954	-10.954	0	%100
57	MP3.5C	X	0	0	0	%100
58	MP3.5C	Z	-9.049	-9.049	0	%100
59	MP4C	X	0	0	0	%100
60	MP4C	Z	-9.049	-9.049	0	%100
61	MP5C	X	0	0	0	%100
62	MP5C	Z	-9.049	-9.049	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	-2.262	-2.262	0	%100
65	M103	X	0	0	0	%100
66	M103	Z	-17.505	-17.505	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	-2.262	-2.262	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	-9.049	-9.049	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	-2.262	-2.262	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	1.49	1.49	0	%100
2	A1	Z	-2.582	-2.582	0	%100
3	A2	X	5.953	5.953	0	%100
4	A2	Z	-10.311	-10.311	0	%100
5	A10	X	4.698	4.698	0	%100
6	A10	Z	-8.138	-8.138	0	%100
7	MP1A	X	4.524	4.524	0	%100
8	MP1A	Z	-7.836	-7.836	0	%100
9	MP2A	X	4.524	4.524	0	%100
10	MP2A	Z	-7.836	-7.836	0	%100
11	MP3A	X	5.477	5.477	0	%100
12	MP3A	Z	-9.486	-9.486	0	%100
13	MP3.5A	X	4.524	4.524	0	%100
14	MP3.5A	Z	-7.836	-7.836	0	%100
15	MP4A	X	4.524	4.524	0	%100
16	MP4A	Z	-7.836	-7.836	0	%100
17	MP5A	X	4.524	4.524	0	%100
18	MP5A	Z	-7.836	-7.836	0	%100
19	M18	X	3.393	3.393	0	%100
20	M18	Z	-5.877	-5.877	0	%100
21	M35	X	9.805	9.805	0	%100
22	M35	Z	-16.983	-16.983	0	%100
23	M36A	X	5.962	5.962	0	%100
24	M36A	Z	-10.326	-10.326	0	%100
25	M37A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	0	0	0	%100
27	M45	X	4.698	4.698	0	%100
28	M45	Z	-8.138	-8.138	0	%100
29	MP1B	X	4.524	4.524	0	%100
30	MP1B	Z	-7.836	-7.836	0	%100
31	MP2B	X	4.524	4.524	0	%100
32	MP2B	Z	-7.836	-7.836	0	%100
33	MP3B	X	5.477	5.477	0	%100
34	MP3B	Z	-9.486	-9.486	0	%100
35	MP3.5B	X	4.524	4.524	0	%100
36	MP3.5B	Z	-7.836	-7.836	0	%100
37	MP4B	X	4.524	4.524	0	%100
38	MP4B	Z	-7.836	-7.836	0	%100
39	MP5B	X	4.524	4.524	0	%100
40	MP5B	Z	-7.836	-7.836	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	8.226	8.226	0	%100
44	M68	Z	-14.248	-14.248	0	%100
45	M71	X	1.49	1.49	0	%100
46	M71	Z	-2.582	-2.582	0	%100
47	M72	X	5.953	5.953	0	%100
48	M72	Z	-10.311	-10.311	0	%100
49	M80	X	4.698	4.698	0	%100
50	M80	Z	-8.138	-8.138	0	%100
51	MP1C	X	4.524	4.524	0	%100
52	MP1C	Z	-7.836	-7.836	0	%100
53	MP2C	X	4.524	4.524	0	%100
54	MP2C	Z	-7.836	-7.836	0	%100
55	MP3C	X	5.477	5.477	0	%100
56	MP3C	Z	-9.486	-9.486	0	%100
57	MP3.5C	X	4.524	4.524	0	%100
58	MP3.5C	Z	-7.836	-7.836	0	%100
59	MP4C	X	4.524	4.524	0	%100
60	MP4C	Z	-7.836	-7.836	0	%100
61	MP5C	X	4.524	4.524	0	%100
62	MP5C	Z	-7.836	-7.836	0	%100
63	M87	X	3.393	3.393	0	%100
64	M87	Z	-5.877	-5.877	0	%100
65	M103	X	9.805	9.805	0	%100
66	M103	Z	-16.983	-16.983	0	%100
67	M106	X	3.393	3.393	0	%100
68	M106	Z	-5.877	-5.877	0	%100
69	M107	X	3.393	3.393	0	%100
70	M107	Z	-5.877	-5.877	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	7.745	7.745	0	%100
2	A1	Z	-4.471	-4.471	0	%100
3	A2	X	3.437	3.437	0	%100
4	A2	Z	-1.984	-1.984	0	%100
5	A10	X	8.138	8.138	0	%100
6	A10	Z	-4.698	-4.698	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	7.836	7.836	0 %100
8	MP1A	Z	-4.524	-4.524	0 %100
9	MP2A	X	7.836	7.836	0 %100
10	MP2A	Z	-4.524	-4.524	0 %100
11	MP3A	X	9.486	9.486	0 %100
12	MP3A	Z	-5.477	-5.477	0 %100
13	MP3.5A	X	7.836	7.836	0 %100
14	MP3.5A	Z	-4.524	-4.524	0 %100
15	MP4A	X	7.836	7.836	0 %100
16	MP4A	Z	-4.524	-4.524	0 %100
17	MP5A	X	7.836	7.836	0 %100
18	MP5A	Z	-4.524	-4.524	0 %100
19	M18	X	1.959	1.959	0 %100
20	M18	Z	-1.131	-1.131	0 %100
21	M35	X	15.16	15.16	0 %100
22	M35	Z	-8.752	-8.752	0 %100
23	M36A	X	7.745	7.745	0 %100
24	M36A	Z	-4.471	-4.471	0 %100
25	M37A	X	3.437	3.437	0 %100
26	M37A	Z	-1.984	-1.984	0 %100
27	M45	X	8.138	8.138	0 %100
28	M45	Z	-4.698	-4.698	0 %100
29	MP1B	X	7.836	7.836	0 %100
30	MP1B	Z	-4.524	-4.524	0 %100
31	MP2B	X	7.836	7.836	0 %100
32	MP2B	Z	-4.524	-4.524	0 %100
33	MP3B	X	9.486	9.486	0 %100
34	MP3B	Z	-5.477	-5.477	0 %100
35	MP3.5B	X	7.836	7.836	0 %100
36	MP3.5B	Z	-4.524	-4.524	0 %100
37	MP4B	X	7.836	7.836	0 %100
38	MP4B	Z	-4.524	-4.524	0 %100
39	MP5B	X	7.836	7.836	0 %100
40	MP5B	Z	-4.524	-4.524	0 %100
41	M52	X	1.959	1.959	0 %100
42	M52	Z	-1.131	-1.131	0 %100
43	M68	X	15.16	15.16	0 %100
44	M68	Z	-8.752	-8.752	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	0	0	0 %100
47	M72	X	13.748	13.748	0 %100
48	M72	Z	-7.937	-7.937	0 %100
49	M80	X	8.138	8.138	0 %100
50	M80	Z	-4.698	-4.698	0 %100
51	MP1C	X	7.836	7.836	0 %100
52	MP1C	Z	-4.524	-4.524	0 %100
53	MP2C	X	7.836	7.836	0 %100
54	MP2C	Z	-4.524	-4.524	0 %100
55	MP3C	X	9.486	9.486	0 %100
56	MP3C	Z	-5.477	-5.477	0 %100
57	MP3.5C	X	7.836	7.836	0 %100
58	MP3.5C	Z	-4.524	-4.524	0 %100
59	MP4C	X	7.836	7.836	0 %100
60	MP4C	Z	-4.524	-4.524	0 %100
61	MP5C	X	7.836	7.836	0 %100
62	MP5C	Z	-4.524	-4.524	0 %100
63	M87	X	7.836	7.836	0 %100



Company : GPD
 Designer : enieto
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Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	-4.524	-4.524	0 %100
65	M103	X	17.895	17.895	0 %100
66	M103	Z	-10.331	-10.331	0 %100
67	M106	X	7.836	7.836	0 %100
68	M106	Z	-4.524	-4.524	0 %100
69	M107	X	1.959	1.959	0 %100
70	M107	Z	-1.131	-1.131	0 %100
71	M108	X	1.959	1.959	0 %100
72	M108	Z	-1.131	-1.131	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	11.924	11.924	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A10	X	9.397	9.397	0 %100
6	A10	Z	0	0	0 %100
7	MP1A	X	9.049	9.049	0 %100
8	MP1A	Z	0	0	0 %100
9	MP2A	X	9.049	9.049	0 %100
10	MP2A	Z	0	0	0 %100
11	MP3A	X	10.954	10.954	0 %100
12	MP3A	Z	0	0	0 %100
13	MP3.5A	X	9.049	9.049	0 %100
14	MP3.5A	Z	0	0	0 %100
15	MP4A	X	9.049	9.049	0 %100
16	MP4A	Z	0	0	0 %100
17	MP5A	X	9.049	9.049	0 %100
18	MP5A	Z	0	0	0 %100
19	M18	X	0	0	0 %100
20	M18	Z	0	0	0 %100
21	M35	X	16.452	16.452	0 %100
22	M35	Z	0	0	0 %100
23	M36A	X	2.981	2.981	0 %100
24	M36A	Z	0	0	0 %100
25	M37A	X	11.906	11.906	0 %100
26	M37A	Z	0	0	0 %100
27	M45	X	9.397	9.397	0 %100
28	M45	Z	0	0	0 %100
29	MP1B	X	9.049	9.049	0 %100
30	MP1B	Z	0	0	0 %100
31	MP2B	X	9.049	9.049	0 %100
32	MP2B	Z	0	0	0 %100
33	MP3B	X	10.954	10.954	0 %100
34	MP3B	Z	0	0	0 %100
35	MP3.5B	X	9.049	9.049	0 %100
36	MP3.5B	Z	0	0	0 %100
37	MP4B	X	9.049	9.049	0 %100
38	MP4B	Z	0	0	0 %100
39	MP5B	X	9.049	9.049	0 %100
40	MP5B	Z	0	0	0 %100
41	M52	X	6.786	6.786	0 %100
42	M52	Z	0	0	0 %100
43	M68	X	19.61	19.61	0 %100
44	M68	Z	0	0	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
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Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	2.981	2.981	0	%100
46	M71	Z	0	0	0	%100
47	M72	X	11.906	11.906	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	9.397	9.397	0	%100
50	M80	Z	0	0	0	%100
51	MP1C	X	9.049	9.049	0	%100
52	MP1C	Z	0	0	0	%100
53	MP2C	X	9.049	9.049	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	10.954	10.954	0	%100
56	MP3C	Z	0	0	0	%100
57	MP3.5C	X	9.049	9.049	0	%100
58	MP3.5C	Z	0	0	0	%100
59	MP4C	X	9.049	9.049	0	%100
60	MP4C	Z	0	0	0	%100
61	MP5C	X	9.049	9.049	0	%100
62	MP5C	Z	0	0	0	%100
63	M87	X	6.786	6.786	0	%100
64	M87	Z	0	0	0	%100
65	M103	X	19.61	19.61	0	%100
66	M103	Z	0	0	0	%100
67	M106	X	6.786	6.786	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	0	0	0	%100
71	M108	X	6.786	6.786	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	7.745	7.745	0	%100
2	A1	Z	4.471	4.471	0	%100
3	A2	X	3.437	3.437	0	%100
4	A2	Z	1.984	1.984	0	%100
5	A10	X	8.138	8.138	0	%100
6	A10	Z	4.698	4.698	0	%100
7	MP1A	X	7.836	7.836	0	%100
8	MP1A	Z	4.524	4.524	0	%100
9	MP2A	X	7.836	7.836	0	%100
10	MP2A	Z	4.524	4.524	0	%100
11	MP3A	X	9.486	9.486	0	%100
12	MP3A	Z	5.477	5.477	0	%100
13	MP3.5A	X	7.836	7.836	0	%100
14	MP3.5A	Z	4.524	4.524	0	%100
15	MP4A	X	7.836	7.836	0	%100
16	MP4A	Z	4.524	4.524	0	%100
17	MP5A	X	7.836	7.836	0	%100
18	MP5A	Z	4.524	4.524	0	%100
19	M18	X	1.959	1.959	0	%100
20	M18	Z	1.131	1.131	0	%100
21	M35	X	15.16	15.16	0	%100
22	M35	Z	8.752	8.752	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	13.748	13.748	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	7.937	7.937	0	%100
27	M45	X	8.138	8.138	0	%100
28	M45	Z	4.698	4.698	0	%100
29	MP1B	X	7.836	7.836	0	%100
30	MP1B	Z	4.524	4.524	0	%100
31	MP2B	X	7.836	7.836	0	%100
32	MP2B	Z	4.524	4.524	0	%100
33	MP3B	X	9.486	9.486	0	%100
34	MP3B	Z	5.477	5.477	0	%100
35	MP3.5B	X	7.836	7.836	0	%100
36	MP3.5B	Z	4.524	4.524	0	%100
37	MP4B	X	7.836	7.836	0	%100
38	MP4B	Z	4.524	4.524	0	%100
39	MP5B	X	7.836	7.836	0	%100
40	MP5B	Z	4.524	4.524	0	%100
41	M52	X	7.836	7.836	0	%100
42	M52	Z	4.524	4.524	0	%100
43	M68	X	17.895	17.895	0	%100
44	M68	Z	10.331	10.331	0	%100
45	M71	X	7.745	7.745	0	%100
46	M71	Z	4.471	4.471	0	%100
47	M72	X	3.437	3.437	0	%100
48	M72	Z	1.984	1.984	0	%100
49	M80	X	8.138	8.138	0	%100
50	M80	Z	4.698	4.698	0	%100
51	MP1C	X	7.836	7.836	0	%100
52	MP1C	Z	4.524	4.524	0	%100
53	MP2C	X	7.836	7.836	0	%100
54	MP2C	Z	4.524	4.524	0	%100
55	MP3C	X	9.486	9.486	0	%100
56	MP3C	Z	5.477	5.477	0	%100
57	MP3.5C	X	7.836	7.836	0	%100
58	MP3.5C	Z	4.524	4.524	0	%100
59	MP4C	X	7.836	7.836	0	%100
60	MP4C	Z	4.524	4.524	0	%100
61	MP5C	X	7.836	7.836	0	%100
62	MP5C	Z	4.524	4.524	0	%100
63	M87	X	1.959	1.959	0	%100
64	M87	Z	1.131	1.131	0	%100
65	M103	X	15.16	15.16	0	%100
66	M103	Z	8.752	8.752	0	%100
67	M106	X	1.959	1.959	0	%100
68	M106	Z	1.131	1.131	0	%100
69	M107	X	1.959	1.959	0	%100
70	M107	Z	1.131	1.131	0	%100
71	M108	X	7.836	7.836	0	%100
72	M108	Z	4.524	4.524	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	1.49	1.49	0	%100
2	A1	Z	2.582	2.582	0	%100
3	A2	X	5.953	5.953	0	%100
4	A2	Z	10.311	10.311	0	%100
5	A10	X	4.698	4.698	0	%100
6	A10	Z	8.138	8.138	0	%100



Company : GPD
 Designer : enieto
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Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	4.524	4.524	0 %100
8	MP1A	Z	7.836	7.836	0 %100
9	MP2A	X	4.524	4.524	0 %100
10	MP2A	Z	7.836	7.836	0 %100
11	MP3A	X	5.477	5.477	0 %100
12	MP3A	Z	9.486	9.486	0 %100
13	MP3.5A	X	4.524	4.524	0 %100
14	MP3.5A	Z	7.836	7.836	0 %100
15	MP4A	X	4.524	4.524	0 %100
16	MP4A	Z	7.836	7.836	0 %100
17	MP5A	X	4.524	4.524	0 %100
18	MP5A	Z	7.836	7.836	0 %100
19	M18	X	3.393	3.393	0 %100
20	M18	Z	5.877	5.877	0 %100
21	M35	X	9.805	9.805	0 %100
22	M35	Z	16.983	16.983	0 %100
23	M36A	X	1.49	1.49	0 %100
24	M36A	Z	2.582	2.582	0 %100
25	M37A	X	5.953	5.953	0 %100
26	M37A	Z	10.311	10.311	0 %100
27	M45	X	4.698	4.698	0 %100
28	M45	Z	8.138	8.138	0 %100
29	MP1B	X	4.524	4.524	0 %100
30	MP1B	Z	7.836	7.836	0 %100
31	MP2B	X	4.524	4.524	0 %100
32	MP2B	Z	7.836	7.836	0 %100
33	MP3B	X	5.477	5.477	0 %100
34	MP3B	Z	9.486	9.486	0 %100
35	MP3.5B	X	4.524	4.524	0 %100
36	MP3.5B	Z	7.836	7.836	0 %100
37	MP4B	X	4.524	4.524	0 %100
38	MP4B	Z	7.836	7.836	0 %100
39	MP5B	X	4.524	4.524	0 %100
40	MP5B	Z	7.836	7.836	0 %100
41	M52	X	3.393	3.393	0 %100
42	M52	Z	5.877	5.877	0 %100
43	M68	X	9.805	9.805	0 %100
44	M68	Z	16.983	16.983	0 %100
45	M71	X	5.962	5.962	0 %100
46	M71	Z	10.326	10.326	0 %100
47	M72	X	0	0	0 %100
48	M72	Z	0	0	0 %100
49	M80	X	4.698	4.698	0 %100
50	M80	Z	8.138	8.138	0 %100
51	MP1C	X	4.524	4.524	0 %100
52	MP1C	Z	7.836	7.836	0 %100
53	MP2C	X	4.524	4.524	0 %100
54	MP2C	Z	7.836	7.836	0 %100
55	MP3C	X	5.477	5.477	0 %100
56	MP3C	Z	9.486	9.486	0 %100
57	MP3.5C	X	4.524	4.524	0 %100
58	MP3.5C	Z	7.836	7.836	0 %100
59	MP4C	X	4.524	4.524	0 %100
60	MP4C	Z	7.836	7.836	0 %100
61	MP5C	X	4.524	4.524	0 %100
62	MP5C	Z	7.836	7.836	0 %100
63	M87	X	0	0	0 %100



Company : GPD
 Designer : enieto
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Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	0	0	0	%100
65	M103	X	8.226	8.226	0	%100
66	M103	Z	14.248	14.248	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	3.393	3.393	0	%100
70	M107	Z	5.877	5.877	0	%100
71	M108	X	3.393	3.393	0	%100
72	M108	Z	5.877	5.877	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	15.875	15.875	0	%100
5	A10	X	0	0	0	%100
6	A10	Z	9.397	9.397	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	9.049	9.049	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	9.049	9.049	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	10.954	10.954	0	%100
13	MP3.5A	X	0	0	0	%100
14	MP3.5A	Z	9.049	9.049	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	9.049	9.049	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	9.049	9.049	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	9.049	9.049	0	%100
21	M35	X	0	0	0	%100
22	M35	Z	20.663	20.663	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	8.943	8.943	0	%100
25	M37A	X	0	0	0	%100
26	M37A	Z	3.969	3.969	0	%100
27	M45	X	0	0	0	%100
28	M45	Z	9.397	9.397	0	%100
29	MP1B	X	0	0	0	%100
30	MP1B	Z	9.049	9.049	0	%100
31	MP2B	X	0	0	0	%100
32	MP2B	Z	9.049	9.049	0	%100
33	MP3B	X	0	0	0	%100
34	MP3B	Z	10.954	10.954	0	%100
35	MP3.5B	X	0	0	0	%100
36	MP3.5B	Z	9.049	9.049	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	9.049	9.049	0	%100
39	MP5B	X	0	0	0	%100
40	MP5B	Z	9.049	9.049	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	2.262	2.262	0	%100
43	M68	X	0	0	0	%100
44	M68	Z	17.505	17.505	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
45	M71	X	0	0	0	%100
46	M71	Z	8.943	8.943	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	3.969	3.969	0	%100
49	M80	X	0	0	0	%100
50	M80	Z	9.397	9.397	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	9.049	9.049	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	9.049	9.049	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	10.954	10.954	0	%100
57	MP3.5C	X	0	0	0	%100
58	MP3.5C	Z	9.049	9.049	0	%100
59	MP4C	X	0	0	0	%100
60	MP4C	Z	9.049	9.049	0	%100
61	MP5C	X	0	0	0	%100
62	MP5C	Z	9.049	9.049	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	2.262	2.262	0	%100
65	M103	X	0	0	0	%100
66	M103	Z	17.505	17.505	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	2.262	2.262	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	9.049	9.049	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	2.262	2.262	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-1.49	-1.49	0	%100
2	A1	Z	2.582	2.582	0	%100
3	A2	X	-5.953	-5.953	0	%100
4	A2	Z	10.311	10.311	0	%100
5	A10	X	-4.698	-4.698	0	%100
6	A10	Z	8.138	8.138	0	%100
7	MP1A	X	-4.524	-4.524	0	%100
8	MP1A	Z	7.836	7.836	0	%100
9	MP2A	X	-4.524	-4.524	0	%100
10	MP2A	Z	7.836	7.836	0	%100
11	MP3A	X	-5.477	-5.477	0	%100
12	MP3A	Z	9.486	9.486	0	%100
13	MP3.5A	X	-4.524	-4.524	0	%100
14	MP3.5A	Z	7.836	7.836	0	%100
15	MP4A	X	-4.524	-4.524	0	%100
16	MP4A	Z	7.836	7.836	0	%100
17	MP5A	X	-4.524	-4.524	0	%100
18	MP5A	Z	7.836	7.836	0	%100
19	M18	X	-3.393	-3.393	0	%100
20	M18	Z	5.877	5.877	0	%100
21	M35	X	-9.805	-9.805	0	%100
22	M35	Z	16.983	16.983	0	%100
23	M36A	X	-5.962	-5.962	0	%100
24	M36A	Z	10.326	10.326	0	%100
25	M37A	X	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	0	0	0	%100
27	M45	X	-4.698	-4.698	0	%100
28	M45	Z	8.138	8.138	0	%100
29	MP1B	X	-4.524	-4.524	0	%100
30	MP1B	Z	7.836	7.836	0	%100
31	MP2B	X	-4.524	-4.524	0	%100
32	MP2B	Z	7.836	7.836	0	%100
33	MP3B	X	-5.477	-5.477	0	%100
34	MP3B	Z	9.486	9.486	0	%100
35	MP3.5B	X	-4.524	-4.524	0	%100
36	MP3.5B	Z	7.836	7.836	0	%100
37	MP4B	X	-4.524	-4.524	0	%100
38	MP4B	Z	7.836	7.836	0	%100
39	MP5B	X	-4.524	-4.524	0	%100
40	MP5B	Z	7.836	7.836	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	-8.226	-8.226	0	%100
44	M68	Z	14.248	14.248	0	%100
45	M71	X	-1.49	-1.49	0	%100
46	M71	Z	2.582	2.582	0	%100
47	M72	X	-5.953	-5.953	0	%100
48	M72	Z	10.311	10.311	0	%100
49	M80	X	-4.698	-4.698	0	%100
50	M80	Z	8.138	8.138	0	%100
51	MP1C	X	-4.524	-4.524	0	%100
52	MP1C	Z	7.836	7.836	0	%100
53	MP2C	X	-4.524	-4.524	0	%100
54	MP2C	Z	7.836	7.836	0	%100
55	MP3C	X	-5.477	-5.477	0	%100
56	MP3C	Z	9.486	9.486	0	%100
57	MP3.5C	X	-4.524	-4.524	0	%100
58	MP3.5C	Z	7.836	7.836	0	%100
59	MP4C	X	-4.524	-4.524	0	%100
60	MP4C	Z	7.836	7.836	0	%100
61	MP5C	X	-4.524	-4.524	0	%100
62	MP5C	Z	7.836	7.836	0	%100
63	M87	X	-3.393	-3.393	0	%100
64	M87	Z	5.877	5.877	0	%100
65	M103	X	-9.805	-9.805	0	%100
66	M103	Z	16.983	16.983	0	%100
67	M106	X	-3.393	-3.393	0	%100
68	M106	Z	5.877	5.877	0	%100
69	M107	X	-3.393	-3.393	0	%100
70	M107	Z	5.877	5.877	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-7.745	-7.745	0	%100
2	A1	Z	4.471	4.471	0	%100
3	A2	X	-3.437	-3.437	0	%100
4	A2	Z	1.984	1.984	0	%100
5	A10	X	-8.138	-8.138	0	%100
6	A10	Z	4.698	4.698	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	-7.836	-7.836	0 %100
8	MP1A	Z	4.524	4.524	0 %100
9	MP2A	X	-7.836	-7.836	0 %100
10	MP2A	Z	4.524	4.524	0 %100
11	MP3A	X	-9.486	-9.486	0 %100
12	MP3A	Z	5.477	5.477	0 %100
13	MP3.5A	X	-7.836	-7.836	0 %100
14	MP3.5A	Z	4.524	4.524	0 %100
15	MP4A	X	-7.836	-7.836	0 %100
16	MP4A	Z	4.524	4.524	0 %100
17	MP5A	X	-7.836	-7.836	0 %100
18	MP5A	Z	4.524	4.524	0 %100
19	M18	X	-1.959	-1.959	0 %100
20	M18	Z	1.131	1.131	0 %100
21	M35	X	-15.16	-15.16	0 %100
22	M35	Z	8.752	8.752	0 %100
23	M36A	X	-7.745	-7.745	0 %100
24	M36A	Z	4.471	4.471	0 %100
25	M37A	X	-3.437	-3.437	0 %100
26	M37A	Z	1.984	1.984	0 %100
27	M45	X	-8.138	-8.138	0 %100
28	M45	Z	4.698	4.698	0 %100
29	MP1B	X	-7.836	-7.836	0 %100
30	MP1B	Z	4.524	4.524	0 %100
31	MP2B	X	-7.836	-7.836	0 %100
32	MP2B	Z	4.524	4.524	0 %100
33	MP3B	X	-9.486	-9.486	0 %100
34	MP3B	Z	5.477	5.477	0 %100
35	MP3.5B	X	-7.836	-7.836	0 %100
36	MP3.5B	Z	4.524	4.524	0 %100
37	MP4B	X	-7.836	-7.836	0 %100
38	MP4B	Z	4.524	4.524	0 %100
39	MP5B	X	-7.836	-7.836	0 %100
40	MP5B	Z	4.524	4.524	0 %100
41	M52	X	-1.959	-1.959	0 %100
42	M52	Z	1.131	1.131	0 %100
43	M68	X	-15.16	-15.16	0 %100
44	M68	Z	8.752	8.752	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	0	0	0 %100
47	M72	X	-13.748	-13.748	0 %100
48	M72	Z	7.937	7.937	0 %100
49	M80	X	-8.138	-8.138	0 %100
50	M80	Z	4.698	4.698	0 %100
51	MP1C	X	-7.836	-7.836	0 %100
52	MP1C	Z	4.524	4.524	0 %100
53	MP2C	X	-7.836	-7.836	0 %100
54	MP2C	Z	4.524	4.524	0 %100
55	MP3C	X	-9.486	-9.486	0 %100
56	MP3C	Z	5.477	5.477	0 %100
57	MP3.5C	X	-7.836	-7.836	0 %100
58	MP3.5C	Z	4.524	4.524	0 %100
59	MP4C	X	-7.836	-7.836	0 %100
60	MP4C	Z	4.524	4.524	0 %100
61	MP5C	X	-7.836	-7.836	0 %100
62	MP5C	Z	4.524	4.524	0 %100
63	M87	X	-7.836	-7.836	0 %100



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 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	4.524	4.524	0 %100
65	M103	X	-17.895	-17.895	0 %100
66	M103	Z	10.331	10.331	0 %100
67	M106	X	-7.836	-7.836	0 %100
68	M106	Z	4.524	4.524	0 %100
69	M107	X	-1.959	-1.959	0 %100
70	M107	Z	1.131	1.131	0 %100
71	M108	X	-1.959	-1.959	0 %100
72	M108	Z	1.131	1.131	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-11.924	-11.924	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A10	X	-9.397	-9.397	0 %100
6	A10	Z	0	0	0 %100
7	MP1A	X	-9.049	-9.049	0 %100
8	MP1A	Z	0	0	0 %100
9	MP2A	X	-9.049	-9.049	0 %100
10	MP2A	Z	0	0	0 %100
11	MP3A	X	-10.954	-10.954	0 %100
12	MP3A	Z	0	0	0 %100
13	MP3.5A	X	-9.049	-9.049	0 %100
14	MP3.5A	Z	0	0	0 %100
15	MP4A	X	-9.049	-9.049	0 %100
16	MP4A	Z	0	0	0 %100
17	MP5A	X	-9.049	-9.049	0 %100
18	MP5A	Z	0	0	0 %100
19	M18	X	0	0	0 %100
20	M18	Z	0	0	0 %100
21	M35	X	-16.452	-16.452	0 %100
22	M35	Z	0	0	0 %100
23	M36A	X	-2.981	-2.981	0 %100
24	M36A	Z	0	0	0 %100
25	M37A	X	-11.906	-11.906	0 %100
26	M37A	Z	0	0	0 %100
27	M45	X	-9.397	-9.397	0 %100
28	M45	Z	0	0	0 %100
29	MP1B	X	-9.049	-9.049	0 %100
30	MP1B	Z	0	0	0 %100
31	MP2B	X	-9.049	-9.049	0 %100
32	MP2B	Z	0	0	0 %100
33	MP3B	X	-10.954	-10.954	0 %100
34	MP3B	Z	0	0	0 %100
35	MP3.5B	X	-9.049	-9.049	0 %100
36	MP3.5B	Z	0	0	0 %100
37	MP4B	X	-9.049	-9.049	0 %100
38	MP4B	Z	0	0	0 %100
39	MP5B	X	-9.049	-9.049	0 %100
40	MP5B	Z	0	0	0 %100
41	M52	X	-6.786	-6.786	0 %100
42	M52	Z	0	0	0 %100
43	M68	X	-19.61	-19.61	0 %100
44	M68	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	-2.981	-2.981	0	%100
46	M71	Z	0	0	0	%100
47	M72	X	-11.906	-11.906	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	-9.397	-9.397	0	%100
50	M80	Z	0	0	0	%100
51	MP1C	X	-9.049	-9.049	0	%100
52	MP1C	Z	0	0	0	%100
53	MP2C	X	-9.049	-9.049	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	-10.954	-10.954	0	%100
56	MP3C	Z	0	0	0	%100
57	MP3.5C	X	-9.049	-9.049	0	%100
58	MP3.5C	Z	0	0	0	%100
59	MP4C	X	-9.049	-9.049	0	%100
60	MP4C	Z	0	0	0	%100
61	MP5C	X	-9.049	-9.049	0	%100
62	MP5C	Z	0	0	0	%100
63	M87	X	-6.786	-6.786	0	%100
64	M87	Z	0	0	0	%100
65	M103	X	-19.61	-19.61	0	%100
66	M103	Z	0	0	0	%100
67	M106	X	-6.786	-6.786	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	0	0	0	%100
71	M108	X	-6.786	-6.786	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-7.745	-7.745	0	%100
2	A1	Z	-4.471	-4.471	0	%100
3	A2	X	-3.437	-3.437	0	%100
4	A2	Z	-1.984	-1.984	0	%100
5	A10	X	-8.138	-8.138	0	%100
6	A10	Z	-4.698	-4.698	0	%100
7	MP1A	X	-7.836	-7.836	0	%100
8	MP1A	Z	-4.524	-4.524	0	%100
9	MP2A	X	-7.836	-7.836	0	%100
10	MP2A	Z	-4.524	-4.524	0	%100
11	MP3A	X	-9.486	-9.486	0	%100
12	MP3A	Z	-5.477	-5.477	0	%100
13	MP3.5A	X	-7.836	-7.836	0	%100
14	MP3.5A	Z	-4.524	-4.524	0	%100
15	MP4A	X	-7.836	-7.836	0	%100
16	MP4A	Z	-4.524	-4.524	0	%100
17	MP5A	X	-7.836	-7.836	0	%100
18	MP5A	Z	-4.524	-4.524	0	%100
19	M18	X	-1.959	-1.959	0	%100
20	M18	Z	-1.131	-1.131	0	%100
21	M35	X	-15.16	-15.16	0	%100
22	M35	Z	-8.752	-8.752	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	-13.748	-13.748	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	-7.937	-7.937	0	%100
27	M45	X	-8.138	-8.138	0	%100
28	M45	Z	-4.698	-4.698	0	%100
29	MP1B	X	-7.836	-7.836	0	%100
30	MP1B	Z	-4.524	-4.524	0	%100
31	MP2B	X	-7.836	-7.836	0	%100
32	MP2B	Z	-4.524	-4.524	0	%100
33	MP3B	X	-9.486	-9.486	0	%100
34	MP3B	Z	-5.477	-5.477	0	%100
35	MP3.5B	X	-7.836	-7.836	0	%100
36	MP3.5B	Z	-4.524	-4.524	0	%100
37	MP4B	X	-7.836	-7.836	0	%100
38	MP4B	Z	-4.524	-4.524	0	%100
39	MP5B	X	-7.836	-7.836	0	%100
40	MP5B	Z	-4.524	-4.524	0	%100
41	M52	X	-7.836	-7.836	0	%100
42	M52	Z	-4.524	-4.524	0	%100
43	M68	X	-17.895	-17.895	0	%100
44	M68	Z	-10.331	-10.331	0	%100
45	M71	X	-7.745	-7.745	0	%100
46	M71	Z	-4.471	-4.471	0	%100
47	M72	X	-3.437	-3.437	0	%100
48	M72	Z	-1.984	-1.984	0	%100
49	M80	X	-8.138	-8.138	0	%100
50	M80	Z	-4.698	-4.698	0	%100
51	MP1C	X	-7.836	-7.836	0	%100
52	MP1C	Z	-4.524	-4.524	0	%100
53	MP2C	X	-7.836	-7.836	0	%100
54	MP2C	Z	-4.524	-4.524	0	%100
55	MP3C	X	-9.486	-9.486	0	%100
56	MP3C	Z	-5.477	-5.477	0	%100
57	MP3.5C	X	-7.836	-7.836	0	%100
58	MP3.5C	Z	-4.524	-4.524	0	%100
59	MP4C	X	-7.836	-7.836	0	%100
60	MP4C	Z	-4.524	-4.524	0	%100
61	MP5C	X	-7.836	-7.836	0	%100
62	MP5C	Z	-4.524	-4.524	0	%100
63	M87	X	-1.959	-1.959	0	%100
64	M87	Z	-1.131	-1.131	0	%100
65	M103	X	-15.16	-15.16	0	%100
66	M103	Z	-8.752	-8.752	0	%100
67	M106	X	-1.959	-1.959	0	%100
68	M106	Z	-1.131	-1.131	0	%100
69	M107	X	-1.959	-1.959	0	%100
70	M107	Z	-1.131	-1.131	0	%100
71	M108	X	-7.836	-7.836	0	%100
72	M108	Z	-4.524	-4.524	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-1.49	-1.49	0	%100
2	A1	Z	-2.582	-2.582	0	%100
3	A2	X	-5.953	-5.953	0	%100
4	A2	Z	-10.311	-10.311	0	%100
5	A10	X	-4.698	-4.698	0	%100
6	A10	Z	-8.138	-8.138	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	-4.524	-4.524	0 %100
8	MP1A	Z	-7.836	-7.836	0 %100
9	MP2A	X	-4.524	-4.524	0 %100
10	MP2A	Z	-7.836	-7.836	0 %100
11	MP3A	X	-5.477	-5.477	0 %100
12	MP3A	Z	-9.486	-9.486	0 %100
13	MP3.5A	X	-4.524	-4.524	0 %100
14	MP3.5A	Z	-7.836	-7.836	0 %100
15	MP4A	X	-4.524	-4.524	0 %100
16	MP4A	Z	-7.836	-7.836	0 %100
17	MP5A	X	-4.524	-4.524	0 %100
18	MP5A	Z	-7.836	-7.836	0 %100
19	M18	X	-3.393	-3.393	0 %100
20	M18	Z	-5.877	-5.877	0 %100
21	M35	X	-9.805	-9.805	0 %100
22	M35	Z	-16.983	-16.983	0 %100
23	M36A	X	-1.49	-1.49	0 %100
24	M36A	Z	-2.582	-2.582	0 %100
25	M37A	X	-5.953	-5.953	0 %100
26	M37A	Z	-10.311	-10.311	0 %100
27	M45	X	-4.698	-4.698	0 %100
28	M45	Z	-8.138	-8.138	0 %100
29	MP1B	X	-4.524	-4.524	0 %100
30	MP1B	Z	-7.836	-7.836	0 %100
31	MP2B	X	-4.524	-4.524	0 %100
32	MP2B	Z	-7.836	-7.836	0 %100
33	MP3B	X	-5.477	-5.477	0 %100
34	MP3B	Z	-9.486	-9.486	0 %100
35	MP3.5B	X	-4.524	-4.524	0 %100
36	MP3.5B	Z	-7.836	-7.836	0 %100
37	MP4B	X	-4.524	-4.524	0 %100
38	MP4B	Z	-7.836	-7.836	0 %100
39	MP5B	X	-4.524	-4.524	0 %100
40	MP5B	Z	-7.836	-7.836	0 %100
41	M52	X	-3.393	-3.393	0 %100
42	M52	Z	-5.877	-5.877	0 %100
43	M68	X	-9.805	-9.805	0 %100
44	M68	Z	-16.983	-16.983	0 %100
45	M71	X	-5.962	-5.962	0 %100
46	M71	Z	-10.326	-10.326	0 %100
47	M72	X	0	0	0 %100
48	M72	Z	0	0	0 %100
49	M80	X	-4.698	-4.698	0 %100
50	M80	Z	-8.138	-8.138	0 %100
51	MP1C	X	-4.524	-4.524	0 %100
52	MP1C	Z	-7.836	-7.836	0 %100
53	MP2C	X	-4.524	-4.524	0 %100
54	MP2C	Z	-7.836	-7.836	0 %100
55	MP3C	X	-5.477	-5.477	0 %100
56	MP3C	Z	-9.486	-9.486	0 %100
57	MP3.5C	X	-4.524	-4.524	0 %100
58	MP3.5C	Z	-7.836	-7.836	0 %100
59	MP4C	X	-4.524	-4.524	0 %100
60	MP4C	Z	-7.836	-7.836	0 %100
61	MP5C	X	-4.524	-4.524	0 %100
62	MP5C	Z	-7.836	-7.836	0 %100
63	M87	X	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	0	0	0	%100
65	M103	X	-8.226	-8.226	0	%100
66	M103	Z	-14.248	-14.248	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	-3.393	-3.393	0	%100
70	M107	Z	-5.877	-5.877	0	%100
71	M108	X	-3.393	-3.393	0	%100
72	M108	Z	-5.877	-5.877	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-5.264	-5.264	0	%100
5	A10	X	0	0	0	%100
6	A10	Z	-3.418	-3.418	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-4.012	-4.012	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-4.012	-4.012	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-4.361	-4.361	0	%100
13	MP3.5A	X	0	0	0	%100
14	MP3.5A	Z	-4.012	-4.012	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-4.012	-4.012	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	-4.012	-4.012	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	-4.012	-4.012	0	%100
21	M35	X	0	0	0	%100
22	M35	Z	-5.156	-5.156	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	-2.937	-2.937	0	%100
25	M37A	X	0	0	0	%100
26	M37A	Z	-1.316	-1.316	0	%100
27	M45	X	0	0	0	%100
28	M45	Z	-3.418	-3.418	0	%100
29	MP1B	X	0	0	0	%100
30	MP1B	Z	-4.012	-4.012	0	%100
31	MP2B	X	0	0	0	%100
32	MP2B	Z	-4.012	-4.012	0	%100
33	MP3B	X	0	0	0	%100
34	MP3B	Z	-4.361	-4.361	0	%100
35	MP3.5B	X	0	0	0	%100
36	MP3.5B	Z	-4.012	-4.012	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	-4.012	-4.012	0	%100
39	MP5B	X	0	0	0	%100
40	MP5B	Z	-4.012	-4.012	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	-1.003	-1.003	0	%100
43	M68	X	0	0	0	%100
44	M68	Z	-4.989	-4.989	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
45	M71	X	0	0	0	%100
46	M71	Z	-2.937	-2.937	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	-1.316	-1.316	0	%100
49	M80	X	0	0	0	%100
50	M80	Z	-3.418	-3.418	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	-4.012	-4.012	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	-4.012	-4.012	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	-4.361	-4.361	0	%100
57	MP3.5C	X	0	0	0	%100
58	MP3.5C	Z	-4.012	-4.012	0	%100
59	MP4C	X	0	0	0	%100
60	MP4C	Z	-4.012	-4.012	0	%100
61	MP5C	X	0	0	0	%100
62	MP5C	Z	-4.012	-4.012	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	-1.003	-1.003	0	%100
65	M103	X	0	0	0	%100
66	M103	Z	-4.989	-4.989	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	-.938	-.938	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	-3.751	-3.751	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	-.938	-.938	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.489	.489	0	%100
2	A1	Z	-.848	-.848	0	%100
3	A2	X	1.974	1.974	0	%100
4	A2	Z	-3.419	-3.419	0	%100
5	A10	X	1.709	1.709	0	%100
6	A10	Z	-2.96	-2.96	0	%100
7	MP1A	X	2.006	2.006	0	%100
8	MP1A	Z	-3.474	-3.474	0	%100
9	MP2A	X	2.006	2.006	0	%100
10	MP2A	Z	-3.474	-3.474	0	%100
11	MP3A	X	2.181	2.181	0	%100
12	MP3A	Z	-3.777	-3.777	0	%100
13	MP3.5A	X	2.006	2.006	0	%100
14	MP3.5A	Z	-3.474	-3.474	0	%100
15	MP4A	X	2.006	2.006	0	%100
16	MP4A	Z	-3.474	-3.474	0	%100
17	MP5A	X	2.006	2.006	0	%100
18	MP5A	Z	-3.474	-3.474	0	%100
19	M18	X	1.504	1.504	0	%100
20	M18	Z	-2.606	-2.606	0	%100
21	M35	X	2.55	2.55	0	%100
22	M35	Z	-4.417	-4.417	0	%100
23	M36A	X	1.958	1.958	0	%100
24	M36A	Z	-3.391	-3.391	0	%100
25	M37A	X	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	0	0	0	%100
27	M45	X	1.709	1.709	0	%100
28	M45	Z	-2.96	-2.96	0	%100
29	MP1B	X	2.006	2.006	0	%100
30	MP1B	Z	-3.474	-3.474	0	%100
31	MP2B	X	2.006	2.006	0	%100
32	MP2B	Z	-3.474	-3.474	0	%100
33	MP3B	X	2.181	2.181	0	%100
34	MP3B	Z	-3.777	-3.777	0	%100
35	MP3.5B	X	2.006	2.006	0	%100
36	MP3.5B	Z	-3.474	-3.474	0	%100
37	MP4B	X	2.006	2.006	0	%100
38	MP4B	Z	-3.474	-3.474	0	%100
39	MP5B	X	2.006	2.006	0	%100
40	MP5B	Z	-3.474	-3.474	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	2.466	2.466	0	%100
44	M68	Z	-4.272	-4.272	0	%100
45	M71	X	.489	.489	0	%100
46	M71	Z	-.848	-.848	0	%100
47	M72	X	1.974	1.974	0	%100
48	M72	Z	-3.419	-3.419	0	%100
49	M80	X	1.709	1.709	0	%100
50	M80	Z	-2.96	-2.96	0	%100
51	MP1C	X	2.006	2.006	0	%100
52	MP1C	Z	-3.474	-3.474	0	%100
53	MP2C	X	2.006	2.006	0	%100
54	MP2C	Z	-3.474	-3.474	0	%100
55	MP3C	X	2.181	2.181	0	%100
56	MP3C	Z	-3.777	-3.777	0	%100
57	MP3.5C	X	2.006	2.006	0	%100
58	MP3.5C	Z	-3.474	-3.474	0	%100
59	MP4C	X	2.006	2.006	0	%100
60	MP4C	Z	-3.474	-3.474	0	%100
61	MP5C	X	2.006	2.006	0	%100
62	MP5C	Z	-3.474	-3.474	0	%100
63	M87	X	1.504	1.504	0	%100
64	M87	Z	-2.606	-2.606	0	%100
65	M103	X	2.55	2.55	0	%100
66	M103	Z	-4.417	-4.417	0	%100
67	M106	X	1.406	1.406	0	%100
68	M106	Z	-2.436	-2.436	0	%100
69	M107	X	1.406	1.406	0	%100
70	M107	Z	-2.436	-2.436	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	2.543	2.543	0	%100
2	A1	Z	-1.468	-1.468	0	%100
3	A2	X	1.14	1.14	0	%100
4	A2	Z	-.658	-.658	0	%100
5	A10	X	2.96	2.96	0	%100
6	A10	Z	-1.709	-1.709	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	3.474	3.474	0 %100
8	MP1A	Z	-2.006	-2.006	0 %100
9	MP2A	X	3.474	3.474	0 %100
10	MP2A	Z	-2.006	-2.006	0 %100
11	MP3A	X	3.777	3.777	0 %100
12	MP3A	Z	-2.181	-2.181	0 %100
13	MP3.5A	X	3.474	3.474	0 %100
14	MP3.5A	Z	-2.006	-2.006	0 %100
15	MP4A	X	3.474	3.474	0 %100
16	MP4A	Z	-2.006	-2.006	0 %100
17	MP5A	X	3.474	3.474	0 %100
18	MP5A	Z	-2.006	-2.006	0 %100
19	M18	X	.869	.869	0 %100
20	M18	Z	-.501	-.501	0 %100
21	M35	X	4.32	4.32	0 %100
22	M35	Z	-2.494	-2.494	0 %100
23	M36A	X	2.543	2.543	0 %100
24	M36A	Z	-1.468	-1.468	0 %100
25	M37A	X	1.14	1.14	0 %100
26	M37A	Z	-.658	-.658	0 %100
27	M45	X	2.96	2.96	0 %100
28	M45	Z	-1.709	-1.709	0 %100
29	MP1B	X	3.474	3.474	0 %100
30	MP1B	Z	-2.006	-2.006	0 %100
31	MP2B	X	3.474	3.474	0 %100
32	MP2B	Z	-2.006	-2.006	0 %100
33	MP3B	X	3.777	3.777	0 %100
34	MP3B	Z	-2.181	-2.181	0 %100
35	MP3.5B	X	3.474	3.474	0 %100
36	MP3.5B	Z	-2.006	-2.006	0 %100
37	MP4B	X	3.474	3.474	0 %100
38	MP4B	Z	-2.006	-2.006	0 %100
39	MP5B	X	3.474	3.474	0 %100
40	MP5B	Z	-2.006	-2.006	0 %100
41	M52	X	.869	.869	0 %100
42	M52	Z	-.501	-.501	0 %100
43	M68	X	4.32	4.32	0 %100
44	M68	Z	-2.494	-2.494	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	0	0	0 %100
47	M72	X	4.558	4.558	0 %100
48	M72	Z	-2.632	-2.632	0 %100
49	M80	X	2.96	2.96	0 %100
50	M80	Z	-1.709	-1.709	0 %100
51	MP1C	X	3.474	3.474	0 %100
52	MP1C	Z	-2.006	-2.006	0 %100
53	MP2C	X	3.474	3.474	0 %100
54	MP2C	Z	-2.006	-2.006	0 %100
55	MP3C	X	3.777	3.777	0 %100
56	MP3C	Z	-2.181	-2.181	0 %100
57	MP3.5C	X	3.474	3.474	0 %100
58	MP3.5C	Z	-2.006	-2.006	0 %100
59	MP4C	X	3.474	3.474	0 %100
60	MP4C	Z	-2.006	-2.006	0 %100
61	MP5C	X	3.474	3.474	0 %100
62	MP5C	Z	-2.006	-2.006	0 %100
63	M87	X	3.474	3.474	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	-2.006	-2.006	0	%100
65	M103	X	4.465	4.465	0	%100
66	M103	Z	-2.578	-2.578	0	%100
67	M106	X	3.248	3.248	0	%100
68	M106	Z	-1.875	-1.875	0	%100
69	M107	X	.812	.812	0	%100
70	M107	Z	-.469	-.469	0	%100
71	M108	X	.812	.812	0	%100
72	M108	Z	-.469	-.469	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	3.916	3.916	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A10	X	3.418	3.418	0	%100
6	A10	Z	0	0	0	%100
7	MP1A	X	4.012	4.012	0	%100
8	MP1A	Z	0	0	0	%100
9	MP2A	X	4.012	4.012	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	4.361	4.361	0	%100
12	MP3A	Z	0	0	0	%100
13	MP3.5A	X	4.012	4.012	0	%100
14	MP3.5A	Z	0	0	0	%100
15	MP4A	X	4.012	4.012	0	%100
16	MP4A	Z	0	0	0	%100
17	MP5A	X	4.012	4.012	0	%100
18	MP5A	Z	0	0	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	0	0	0	%100
21	M35	X	4.933	4.933	0	%100
22	M35	Z	0	0	0	%100
23	M36A	X	.979	.979	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	3.948	3.948	0	%100
26	M37A	Z	0	0	0	%100
27	M45	X	3.418	3.418	0	%100
28	M45	Z	0	0	0	%100
29	MP1B	X	4.012	4.012	0	%100
30	MP1B	Z	0	0	0	%100
31	MP2B	X	4.012	4.012	0	%100
32	MP2B	Z	0	0	0	%100
33	MP3B	X	4.361	4.361	0	%100
34	MP3B	Z	0	0	0	%100
35	MP3.5B	X	4.012	4.012	0	%100
36	MP3.5B	Z	0	0	0	%100
37	MP4B	X	4.012	4.012	0	%100
38	MP4B	Z	0	0	0	%100
39	MP5B	X	4.012	4.012	0	%100
40	MP5B	Z	0	0	0	%100
41	M52	X	3.009	3.009	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	5.1	5.1	0	%100
44	M68	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	.979	.979	0	%100
46	M71	Z	0	0	0	%100
47	M72	X	3.948	3.948	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	3.418	3.418	0	%100
50	M80	Z	0	0	0	%100
51	MP1C	X	4.012	4.012	0	%100
52	MP1C	Z	0	0	0	%100
53	MP2C	X	4.012	4.012	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	4.361	4.361	0	%100
56	MP3C	Z	0	0	0	%100
57	MP3.5C	X	4.012	4.012	0	%100
58	MP3.5C	Z	0	0	0	%100
59	MP4C	X	4.012	4.012	0	%100
60	MP4C	Z	0	0	0	%100
61	MP5C	X	4.012	4.012	0	%100
62	MP5C	Z	0	0	0	%100
63	M87	X	3.009	3.009	0	%100
64	M87	Z	0	0	0	%100
65	M103	X	5.1	5.1	0	%100
66	M103	Z	0	0	0	%100
67	M106	X	2.813	2.813	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	0	0	0	%100
71	M108	X	2.813	2.813	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	2.543	2.543	0	%100
2	A1	Z	1.468	1.468	0	%100
3	A2	X	1.14	1.14	0	%100
4	A2	Z	.658	.658	0	%100
5	A10	X	2.96	2.96	0	%100
6	A10	Z	1.709	1.709	0	%100
7	MP1A	X	3.474	3.474	0	%100
8	MP1A	Z	2.006	2.006	0	%100
9	MP2A	X	3.474	3.474	0	%100
10	MP2A	Z	2.006	2.006	0	%100
11	MP3A	X	3.777	3.777	0	%100
12	MP3A	Z	2.181	2.181	0	%100
13	MP3.5A	X	3.474	3.474	0	%100
14	MP3.5A	Z	2.006	2.006	0	%100
15	MP4A	X	3.474	3.474	0	%100
16	MP4A	Z	2.006	2.006	0	%100
17	MP5A	X	3.474	3.474	0	%100
18	MP5A	Z	2.006	2.006	0	%100
19	M18	X	.869	.869	0	%100
20	M18	Z	.501	.501	0	%100
21	M35	X	4.32	4.32	0	%100
22	M35	Z	2.494	2.494	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	4.558	4.558	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	2.632	2.632	0	%100
27	M45	X	2.96	2.96	0	%100
28	M45	Z	1.709	1.709	0	%100
29	MP1B	X	3.474	3.474	0	%100
30	MP1B	Z	2.006	2.006	0	%100
31	MP2B	X	3.474	3.474	0	%100
32	MP2B	Z	2.006	2.006	0	%100
33	MP3B	X	3.777	3.777	0	%100
34	MP3B	Z	2.181	2.181	0	%100
35	MP3.5B	X	3.474	3.474	0	%100
36	MP3.5B	Z	2.006	2.006	0	%100
37	MP4B	X	3.474	3.474	0	%100
38	MP4B	Z	2.006	2.006	0	%100
39	MP5B	X	3.474	3.474	0	%100
40	MP5B	Z	2.006	2.006	0	%100
41	M52	X	3.474	3.474	0	%100
42	M52	Z	2.006	2.006	0	%100
43	M68	X	4.465	4.465	0	%100
44	M68	Z	2.578	2.578	0	%100
45	M71	X	2.543	2.543	0	%100
46	M71	Z	1.468	1.468	0	%100
47	M72	X	1.14	1.14	0	%100
48	M72	Z	.658	.658	0	%100
49	M80	X	2.96	2.96	0	%100
50	M80	Z	1.709	1.709	0	%100
51	MP1C	X	3.474	3.474	0	%100
52	MP1C	Z	2.006	2.006	0	%100
53	MP2C	X	3.474	3.474	0	%100
54	MP2C	Z	2.006	2.006	0	%100
55	MP3C	X	3.777	3.777	0	%100
56	MP3C	Z	2.181	2.181	0	%100
57	MP3.5C	X	3.474	3.474	0	%100
58	MP3.5C	Z	2.006	2.006	0	%100
59	MP4C	X	3.474	3.474	0	%100
60	MP4C	Z	2.006	2.006	0	%100
61	MP5C	X	3.474	3.474	0	%100
62	MP5C	Z	2.006	2.006	0	%100
63	M87	X	.869	.869	0	%100
64	M87	Z	.501	.501	0	%100
65	M103	X	4.32	4.32	0	%100
66	M103	Z	2.494	2.494	0	%100
67	M106	X	.812	.812	0	%100
68	M106	Z	.469	.469	0	%100
69	M107	X	.812	.812	0	%100
70	M107	Z	.469	.469	0	%100
71	M108	X	3.248	3.248	0	%100
72	M108	Z	1.875	1.875	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.489	.489	0	%100
2	A1	Z	.848	.848	0	%100
3	A2	X	1.974	1.974	0	%100
4	A2	Z	3.419	3.419	0	%100
5	A10	X	1.709	1.709	0	%100
6	A10	Z	2.96	2.96	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	2.006	2.006	0 %100
8	MP1A	Z	3.474	3.474	0 %100
9	MP2A	X	2.006	2.006	0 %100
10	MP2A	Z	3.474	3.474	0 %100
11	MP3A	X	2.181	2.181	0 %100
12	MP3A	Z	3.777	3.777	0 %100
13	MP3.5A	X	2.006	2.006	0 %100
14	MP3.5A	Z	3.474	3.474	0 %100
15	MP4A	X	2.006	2.006	0 %100
16	MP4A	Z	3.474	3.474	0 %100
17	MP5A	X	2.006	2.006	0 %100
18	MP5A	Z	3.474	3.474	0 %100
19	M18	X	1.504	1.504	0 %100
20	M18	Z	2.606	2.606	0 %100
21	M35	X	2.55	2.55	0 %100
22	M35	Z	4.417	4.417	0 %100
23	M36A	X	.489	.489	0 %100
24	M36A	Z	.848	.848	0 %100
25	M37A	X	1.974	1.974	0 %100
26	M37A	Z	3.419	3.419	0 %100
27	M45	X	1.709	1.709	0 %100
28	M45	Z	2.96	2.96	0 %100
29	MP1B	X	2.006	2.006	0 %100
30	MP1B	Z	3.474	3.474	0 %100
31	MP2B	X	2.006	2.006	0 %100
32	MP2B	Z	3.474	3.474	0 %100
33	MP3B	X	2.181	2.181	0 %100
34	MP3B	Z	3.777	3.777	0 %100
35	MP3.5B	X	2.006	2.006	0 %100
36	MP3.5B	Z	3.474	3.474	0 %100
37	MP4B	X	2.006	2.006	0 %100
38	MP4B	Z	3.474	3.474	0 %100
39	MP5B	X	2.006	2.006	0 %100
40	MP5B	Z	3.474	3.474	0 %100
41	M52	X	1.504	1.504	0 %100
42	M52	Z	2.606	2.606	0 %100
43	M68	X	2.55	2.55	0 %100
44	M68	Z	4.417	4.417	0 %100
45	M71	X	1.958	1.958	0 %100
46	M71	Z	3.391	3.391	0 %100
47	M72	X	0	0	0 %100
48	M72	Z	0	0	0 %100
49	M80	X	1.709	1.709	0 %100
50	M80	Z	2.96	2.96	0 %100
51	MP1C	X	2.006	2.006	0 %100
52	MP1C	Z	3.474	3.474	0 %100
53	MP2C	X	2.006	2.006	0 %100
54	MP2C	Z	3.474	3.474	0 %100
55	MP3C	X	2.181	2.181	0 %100
56	MP3C	Z	3.777	3.777	0 %100
57	MP3.5C	X	2.006	2.006	0 %100
58	MP3.5C	Z	3.474	3.474	0 %100
59	MP4C	X	2.006	2.006	0 %100
60	MP4C	Z	3.474	3.474	0 %100
61	MP5C	X	2.006	2.006	0 %100
62	MP5C	Z	3.474	3.474	0 %100
63	M87	X	0	0	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	0	0	0	%100
65	M103	X	2.466	2.466	0	%100
66	M103	Z	4.272	4.272	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	1.406	1.406	0	%100
70	M107	Z	2.436	2.436	0	%100
71	M108	X	1.406	1.406	0	%100
72	M108	Z	2.436	2.436	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	5.264	5.264	0	%100
5	A10	X	0	0	0	%100
6	A10	Z	3.418	3.418	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	4.012	4.012	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	4.012	4.012	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	4.361	4.361	0	%100
13	MP3.5A	X	0	0	0	%100
14	MP3.5A	Z	4.012	4.012	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	4.012	4.012	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	4.012	4.012	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	4.012	4.012	0	%100
21	M35	X	0	0	0	%100
22	M35	Z	5.156	5.156	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	2.937	2.937	0	%100
25	M37A	X	0	0	0	%100
26	M37A	Z	1.316	1.316	0	%100
27	M45	X	0	0	0	%100
28	M45	Z	3.418	3.418	0	%100
29	MP1B	X	0	0	0	%100
30	MP1B	Z	4.012	4.012	0	%100
31	MP2B	X	0	0	0	%100
32	MP2B	Z	4.012	4.012	0	%100
33	MP3B	X	0	0	0	%100
34	MP3B	Z	4.361	4.361	0	%100
35	MP3.5B	X	0	0	0	%100
36	MP3.5B	Z	4.012	4.012	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	4.012	4.012	0	%100
39	MP5B	X	0	0	0	%100
40	MP5B	Z	4.012	4.012	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	1.003	1.003	0	%100
43	M68	X	0	0	0	%100
44	M68	Z	4.989	4.989	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
45	M71	X	0	0	0	%100
46	M71	Z	2.937	2.937	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	1.316	1.316	0	%100
49	M80	X	0	0	0	%100
50	M80	Z	3.418	3.418	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	4.012	4.012	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	4.012	4.012	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	4.361	4.361	0	%100
57	MP3.5C	X	0	0	0	%100
58	MP3.5C	Z	4.012	4.012	0	%100
59	MP4C	X	0	0	0	%100
60	MP4C	Z	4.012	4.012	0	%100
61	MP5C	X	0	0	0	%100
62	MP5C	Z	4.012	4.012	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	1.003	1.003	0	%100
65	M103	X	0	0	0	%100
66	M103	Z	4.989	4.989	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	.938	.938	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	3.751	3.751	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	.938	.938	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.489	-.489	0	%100
2	A1	Z	.848	.848	0	%100
3	A2	X	-1.974	-1.974	0	%100
4	A2	Z	3.419	3.419	0	%100
5	A10	X	-1.709	-1.709	0	%100
6	A10	Z	2.96	2.96	0	%100
7	MP1A	X	-2.006	-2.006	0	%100
8	MP1A	Z	3.474	3.474	0	%100
9	MP2A	X	-2.006	-2.006	0	%100
10	MP2A	Z	3.474	3.474	0	%100
11	MP3A	X	-2.181	-2.181	0	%100
12	MP3A	Z	3.777	3.777	0	%100
13	MP3.5A	X	-2.006	-2.006	0	%100
14	MP3.5A	Z	3.474	3.474	0	%100
15	MP4A	X	-2.006	-2.006	0	%100
16	MP4A	Z	3.474	3.474	0	%100
17	MP5A	X	-2.006	-2.006	0	%100
18	MP5A	Z	3.474	3.474	0	%100
19	M18	X	-1.504	-1.504	0	%100
20	M18	Z	2.606	2.606	0	%100
21	M35	X	-2.55	-2.55	0	%100
22	M35	Z	4.417	4.417	0	%100
23	M36A	X	-1.958	-1.958	0	%100
24	M36A	Z	3.391	3.391	0	%100
25	M37A	X	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	0	0	0	%100
27	M45	X	-1.709	-1.709	0	%100
28	M45	Z	2.96	2.96	0	%100
29	MP1B	X	-2.006	-2.006	0	%100
30	MP1B	Z	3.474	3.474	0	%100
31	MP2B	X	-2.006	-2.006	0	%100
32	MP2B	Z	3.474	3.474	0	%100
33	MP3B	X	-2.181	-2.181	0	%100
34	MP3B	Z	3.777	3.777	0	%100
35	MP3.5B	X	-2.006	-2.006	0	%100
36	MP3.5B	Z	3.474	3.474	0	%100
37	MP4B	X	-2.006	-2.006	0	%100
38	MP4B	Z	3.474	3.474	0	%100
39	MP5B	X	-2.006	-2.006	0	%100
40	MP5B	Z	3.474	3.474	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	-2.466	-2.466	0	%100
44	M68	Z	4.272	4.272	0	%100
45	M71	X	-.489	-.489	0	%100
46	M71	Z	.848	.848	0	%100
47	M72	X	-1.974	-1.974	0	%100
48	M72	Z	3.419	3.419	0	%100
49	M80	X	-1.709	-1.709	0	%100
50	M80	Z	2.96	2.96	0	%100
51	MP1C	X	-2.006	-2.006	0	%100
52	MP1C	Z	3.474	3.474	0	%100
53	MP2C	X	-2.006	-2.006	0	%100
54	MP2C	Z	3.474	3.474	0	%100
55	MP3C	X	-2.181	-2.181	0	%100
56	MP3C	Z	3.777	3.777	0	%100
57	MP3.5C	X	-2.006	-2.006	0	%100
58	MP3.5C	Z	3.474	3.474	0	%100
59	MP4C	X	-2.006	-2.006	0	%100
60	MP4C	Z	3.474	3.474	0	%100
61	MP5C	X	-2.006	-2.006	0	%100
62	MP5C	Z	3.474	3.474	0	%100
63	M87	X	-1.504	-1.504	0	%100
64	M87	Z	2.606	2.606	0	%100
65	M103	X	-2.55	-2.55	0	%100
66	M103	Z	4.417	4.417	0	%100
67	M106	X	-1.406	-1.406	0	%100
68	M106	Z	2.436	2.436	0	%100
69	M107	X	-1.406	-1.406	0	%100
70	M107	Z	2.436	2.436	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-2.543	-2.543	0	%100
2	A1	Z	1.468	1.468	0	%100
3	A2	X	-1.14	-1.14	0	%100
4	A2	Z	.658	.658	0	%100
5	A10	X	-2.96	-2.96	0	%100
6	A10	Z	1.709	1.709	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	-3.474	-3.474	0 %100
8	MP1A	Z	2.006	2.006	0 %100
9	MP2A	X	-3.474	-3.474	0 %100
10	MP2A	Z	2.006	2.006	0 %100
11	MP3A	X	-3.777	-3.777	0 %100
12	MP3A	Z	2.181	2.181	0 %100
13	MP3.5A	X	-3.474	-3.474	0 %100
14	MP3.5A	Z	2.006	2.006	0 %100
15	MP4A	X	-3.474	-3.474	0 %100
16	MP4A	Z	2.006	2.006	0 %100
17	MP5A	X	-3.474	-3.474	0 %100
18	MP5A	Z	2.006	2.006	0 %100
19	M18	X	-.869	-.869	0 %100
20	M18	Z	.501	.501	0 %100
21	M35	X	-4.32	-4.32	0 %100
22	M35	Z	2.494	2.494	0 %100
23	M36A	X	-2.543	-2.543	0 %100
24	M36A	Z	1.468	1.468	0 %100
25	M37A	X	-1.14	-1.14	0 %100
26	M37A	Z	.658	.658	0 %100
27	M45	X	-2.96	-2.96	0 %100
28	M45	Z	1.709	1.709	0 %100
29	MP1B	X	-3.474	-3.474	0 %100
30	MP1B	Z	2.006	2.006	0 %100
31	MP2B	X	-3.474	-3.474	0 %100
32	MP2B	Z	2.006	2.006	0 %100
33	MP3B	X	-3.777	-3.777	0 %100
34	MP3B	Z	2.181	2.181	0 %100
35	MP3.5B	X	-3.474	-3.474	0 %100
36	MP3.5B	Z	2.006	2.006	0 %100
37	MP4B	X	-3.474	-3.474	0 %100
38	MP4B	Z	2.006	2.006	0 %100
39	MP5B	X	-3.474	-3.474	0 %100
40	MP5B	Z	2.006	2.006	0 %100
41	M52	X	-.869	-.869	0 %100
42	M52	Z	.501	.501	0 %100
43	M68	X	-4.32	-4.32	0 %100
44	M68	Z	2.494	2.494	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	0	0	0 %100
47	M72	X	-4.558	-4.558	0 %100
48	M72	Z	2.632	2.632	0 %100
49	M80	X	-2.96	-2.96	0 %100
50	M80	Z	1.709	1.709	0 %100
51	MP1C	X	-3.474	-3.474	0 %100
52	MP1C	Z	2.006	2.006	0 %100
53	MP2C	X	-3.474	-3.474	0 %100
54	MP2C	Z	2.006	2.006	0 %100
55	MP3C	X	-3.777	-3.777	0 %100
56	MP3C	Z	2.181	2.181	0 %100
57	MP3.5C	X	-3.474	-3.474	0 %100
58	MP3.5C	Z	2.006	2.006	0 %100
59	MP4C	X	-3.474	-3.474	0 %100
60	MP4C	Z	2.006	2.006	0 %100
61	MP5C	X	-3.474	-3.474	0 %100
62	MP5C	Z	2.006	2.006	0 %100
63	M87	X	-3.474	-3.474	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	2.006	2.006	0 %100
65	M103	X	-4.465	-4.465	0 %100
66	M103	Z	2.578	2.578	0 %100
67	M106	X	-3.248	-3.248	0 %100
68	M106	Z	1.875	1.875	0 %100
69	M107	X	-.812	-.812	0 %100
70	M107	Z	.469	.469	0 %100
71	M108	X	-.812	-.812	0 %100
72	M108	Z	.469	.469	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-3.916	-3.916	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A10	X	-3.418	-3.418	0 %100
6	A10	Z	0	0	0 %100
7	MP1A	X	-4.012	-4.012	0 %100
8	MP1A	Z	0	0	0 %100
9	MP2A	X	-4.012	-4.012	0 %100
10	MP2A	Z	0	0	0 %100
11	MP3A	X	-4.361	-4.361	0 %100
12	MP3A	Z	0	0	0 %100
13	MP3.5A	X	-4.012	-4.012	0 %100
14	MP3.5A	Z	0	0	0 %100
15	MP4A	X	-4.012	-4.012	0 %100
16	MP4A	Z	0	0	0 %100
17	MP5A	X	-4.012	-4.012	0 %100
18	MP5A	Z	0	0	0 %100
19	M18	X	0	0	0 %100
20	M18	Z	0	0	0 %100
21	M35	X	-4.933	-4.933	0 %100
22	M35	Z	0	0	0 %100
23	M36A	X	-.979	-.979	0 %100
24	M36A	Z	0	0	0 %100
25	M37A	X	-3.948	-3.948	0 %100
26	M37A	Z	0	0	0 %100
27	M45	X	-3.418	-3.418	0 %100
28	M45	Z	0	0	0 %100
29	MP1B	X	-4.012	-4.012	0 %100
30	MP1B	Z	0	0	0 %100
31	MP2B	X	-4.012	-4.012	0 %100
32	MP2B	Z	0	0	0 %100
33	MP3B	X	-4.361	-4.361	0 %100
34	MP3B	Z	0	0	0 %100
35	MP3.5B	X	-4.012	-4.012	0 %100
36	MP3.5B	Z	0	0	0 %100
37	MP4B	X	-4.012	-4.012	0 %100
38	MP4B	Z	0	0	0 %100
39	MP5B	X	-4.012	-4.012	0 %100
40	MP5B	Z	0	0	0 %100
41	M52	X	-3.009	-3.009	0 %100
42	M52	Z	0	0	0 %100
43	M68	X	-5.1	-5.1	0 %100
44	M68	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	- .979	- .979	0	%100
46	M71	Z	0	0	0	%100
47	M72	X	-3.948	-3.948	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	-3.418	-3.418	0	%100
50	M80	Z	0	0	0	%100
51	MP1C	X	-4.012	-4.012	0	%100
52	MP1C	Z	0	0	0	%100
53	MP2C	X	-4.012	-4.012	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	-4.361	-4.361	0	%100
56	MP3C	Z	0	0	0	%100
57	MP3.5C	X	-4.012	-4.012	0	%100
58	MP3.5C	Z	0	0	0	%100
59	MP4C	X	-4.012	-4.012	0	%100
60	MP4C	Z	0	0	0	%100
61	MP5C	X	-4.012	-4.012	0	%100
62	MP5C	Z	0	0	0	%100
63	M87	X	-3.009	-3.009	0	%100
64	M87	Z	0	0	0	%100
65	M103	X	-5.1	-5.1	0	%100
66	M103	Z	0	0	0	%100
67	M106	X	-2.813	-2.813	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	0	0	0	%100
71	M108	X	-2.813	-2.813	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-2.543	-2.543	0	%100
2	A1	Z	-1.468	-1.468	0	%100
3	A2	X	-1.14	-1.14	0	%100
4	A2	Z	-.658	-.658	0	%100
5	A10	X	-2.96	-2.96	0	%100
6	A10	Z	-1.709	-1.709	0	%100
7	MP1A	X	-3.474	-3.474	0	%100
8	MP1A	Z	-2.006	-2.006	0	%100
9	MP2A	X	-3.474	-3.474	0	%100
10	MP2A	Z	-2.006	-2.006	0	%100
11	MP3A	X	-3.777	-3.777	0	%100
12	MP3A	Z	-2.181	-2.181	0	%100
13	MP3.5A	X	-3.474	-3.474	0	%100
14	MP3.5A	Z	-2.006	-2.006	0	%100
15	MP4A	X	-3.474	-3.474	0	%100
16	MP4A	Z	-2.006	-2.006	0	%100
17	MP5A	X	-3.474	-3.474	0	%100
18	MP5A	Z	-2.006	-2.006	0	%100
19	M18	X	-.869	-.869	0	%100
20	M18	Z	-.501	-.501	0	%100
21	M35	X	-4.32	-4.32	0	%100
22	M35	Z	-2.494	-2.494	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	-4.558	-4.558	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	-2.632	-2.632	0	%100
27	M45	X	-2.96	-2.96	0	%100
28	M45	Z	-1.709	-1.709	0	%100
29	MP1B	X	-3.474	-3.474	0	%100
30	MP1B	Z	-2.006	-2.006	0	%100
31	MP2B	X	-3.474	-3.474	0	%100
32	MP2B	Z	-2.006	-2.006	0	%100
33	MP3B	X	-3.777	-3.777	0	%100
34	MP3B	Z	-2.181	-2.181	0	%100
35	MP3.5B	X	-3.474	-3.474	0	%100
36	MP3.5B	Z	-2.006	-2.006	0	%100
37	MP4B	X	-3.474	-3.474	0	%100
38	MP4B	Z	-2.006	-2.006	0	%100
39	MP5B	X	-3.474	-3.474	0	%100
40	MP5B	Z	-2.006	-2.006	0	%100
41	M52	X	-3.474	-3.474	0	%100
42	M52	Z	-2.006	-2.006	0	%100
43	M68	X	-4.465	-4.465	0	%100
44	M68	Z	-2.578	-2.578	0	%100
45	M71	X	-2.543	-2.543	0	%100
46	M71	Z	-1.468	-1.468	0	%100
47	M72	X	-1.14	-1.14	0	%100
48	M72	Z	-.658	-.658	0	%100
49	M80	X	-2.96	-2.96	0	%100
50	M80	Z	-1.709	-1.709	0	%100
51	MP1C	X	-3.474	-3.474	0	%100
52	MP1C	Z	-2.006	-2.006	0	%100
53	MP2C	X	-3.474	-3.474	0	%100
54	MP2C	Z	-2.006	-2.006	0	%100
55	MP3C	X	-3.777	-3.777	0	%100
56	MP3C	Z	-2.181	-2.181	0	%100
57	MP3.5C	X	-3.474	-3.474	0	%100
58	MP3.5C	Z	-2.006	-2.006	0	%100
59	MP4C	X	-3.474	-3.474	0	%100
60	MP4C	Z	-2.006	-2.006	0	%100
61	MP5C	X	-3.474	-3.474	0	%100
62	MP5C	Z	-2.006	-2.006	0	%100
63	M87	X	-.869	-.869	0	%100
64	M87	Z	-.501	-.501	0	%100
65	M103	X	-4.32	-4.32	0	%100
66	M103	Z	-2.494	-2.494	0	%100
67	M106	X	-.812	-.812	0	%100
68	M106	Z	-.469	-.469	0	%100
69	M107	X	-.812	-.812	0	%100
70	M107	Z	-.469	-.469	0	%100
71	M108	X	-3.248	-3.248	0	%100
72	M108	Z	-1.875	-1.875	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.489	-.489	0	%100
2	A1	Z	-.848	-.848	0	%100
3	A2	X	-1.974	-1.974	0	%100
4	A2	Z	-3.419	-3.419	0	%100
5	A10	X	-1.709	-1.709	0	%100
6	A10	Z	-2.96	-2.96	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	-2.006	-2.006	0	%100
8	MP1A	Z	-3.474	-3.474	0	%100
9	MP2A	X	-2.006	-2.006	0	%100
10	MP2A	Z	-3.474	-3.474	0	%100
11	MP3A	X	-2.181	-2.181	0	%100
12	MP3A	Z	-3.777	-3.777	0	%100
13	MP3.5A	X	-2.006	-2.006	0	%100
14	MP3.5A	Z	-3.474	-3.474	0	%100
15	MP4A	X	-2.006	-2.006	0	%100
16	MP4A	Z	-3.474	-3.474	0	%100
17	MP5A	X	-2.006	-2.006	0	%100
18	MP5A	Z	-3.474	-3.474	0	%100
19	M18	X	-1.504	-1.504	0	%100
20	M18	Z	-2.606	-2.606	0	%100
21	M35	X	-2.55	-2.55	0	%100
22	M35	Z	-4.417	-4.417	0	%100
23	M36A	X	-.489	-.489	0	%100
24	M36A	Z	-.848	-.848	0	%100
25	M37A	X	-1.974	-1.974	0	%100
26	M37A	Z	-3.419	-3.419	0	%100
27	M45	X	-1.709	-1.709	0	%100
28	M45	Z	-2.96	-2.96	0	%100
29	MP1B	X	-2.006	-2.006	0	%100
30	MP1B	Z	-3.474	-3.474	0	%100
31	MP2B	X	-2.006	-2.006	0	%100
32	MP2B	Z	-3.474	-3.474	0	%100
33	MP3B	X	-2.181	-2.181	0	%100
34	MP3B	Z	-3.777	-3.777	0	%100
35	MP3.5B	X	-2.006	-2.006	0	%100
36	MP3.5B	Z	-3.474	-3.474	0	%100
37	MP4B	X	-2.006	-2.006	0	%100
38	MP4B	Z	-3.474	-3.474	0	%100
39	MP5B	X	-2.006	-2.006	0	%100
40	MP5B	Z	-3.474	-3.474	0	%100
41	M52	X	-1.504	-1.504	0	%100
42	M52	Z	-2.606	-2.606	0	%100
43	M68	X	-2.55	-2.55	0	%100
44	M68	Z	-4.417	-4.417	0	%100
45	M71	X	-1.958	-1.958	0	%100
46	M71	Z	-3.391	-3.391	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	-1.709	-1.709	0	%100
50	M80	Z	-2.96	-2.96	0	%100
51	MP1C	X	-2.006	-2.006	0	%100
52	MP1C	Z	-3.474	-3.474	0	%100
53	MP2C	X	-2.006	-2.006	0	%100
54	MP2C	Z	-3.474	-3.474	0	%100
55	MP3C	X	-2.181	-2.181	0	%100
56	MP3C	Z	-3.777	-3.777	0	%100
57	MP3.5C	X	-2.006	-2.006	0	%100
58	MP3.5C	Z	-3.474	-3.474	0	%100
59	MP4C	X	-2.006	-2.006	0	%100
60	MP4C	Z	-3.474	-3.474	0	%100
61	MP5C	X	-2.006	-2.006	0	%100
62	MP5C	Z	-3.474	-3.474	0	%100
63	M87	X	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	0	0	0	%100
65	M103	X	-2.466	-2.466	0	%100
66	M103	Z	-4.272	-4.272	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	-1.406	-1.406	0	%100
70	M107	Z	-2.436	-2.436	0	%100
71	M108	X	-1.406	-1.406	0	%100
72	M108	Z	-2.436	-2.436	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-1.048	-1.048	0	%100
5	A10	X	0	0	0	%100
6	A10	Z	-.62	-.62	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-.597	-.597	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-.597	-.597	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-.723	-.723	0	%100
13	MP3.5A	X	0	0	0	%100
14	MP3.5A	Z	-.597	-.597	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-.597	-.597	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	-.597	-.597	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	-.597	-.597	0	%100
21	M35	X	0	0	0	%100
22	M35	Z	-1.364	-1.364	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	-.59	-.59	0	%100
25	M37A	X	0	0	0	%100
26	M37A	Z	-.262	-.262	0	%100
27	M45	X	0	0	0	%100
28	M45	Z	-.62	-.62	0	%100
29	MP1B	X	0	0	0	%100
30	MP1B	Z	-.597	-.597	0	%100
31	MP2B	X	0	0	0	%100
32	MP2B	Z	-.597	-.597	0	%100
33	MP3B	X	0	0	0	%100
34	MP3B	Z	-.723	-.723	0	%100
35	MP3.5B	X	0	0	0	%100
36	MP3.5B	Z	-.597	-.597	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	-.597	-.597	0	%100
39	MP5B	X	0	0	0	%100
40	MP5B	Z	-.597	-.597	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	-.149	-.149	0	%100
43	M68	X	0	0	0	%100
44	M68	Z	-1.155	-1.155	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	0	0	0	%100
46	M71	Z	-.59	-.59	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	-.262	-.262	0	%100
49	M80	X	0	0	0	%100
50	M80	Z	-.62	-.62	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	-.597	-.597	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	-.597	-.597	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	-.723	-.723	0	%100
57	MP3.5C	X	0	0	0	%100
58	MP3.5C	Z	-.597	-.597	0	%100
59	MP4C	X	0	0	0	%100
60	MP4C	Z	-.597	-.597	0	%100
61	MP5C	X	0	0	0	%100
62	MP5C	Z	-.597	-.597	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	-.149	-.149	0	%100
65	M103	X	0	0	0	%100
66	M103	Z	-1.155	-1.155	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	-.149	-.149	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	-.597	-.597	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	-.149	-.149	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.098	.098	0	%100
2	A1	Z	-.17	-.17	0	%100
3	A2	X	.393	.393	0	%100
4	A2	Z	-.681	-.681	0	%100
5	A10	X	.31	.31	0	%100
6	A10	Z	-.537	-.537	0	%100
7	MP1A	X	.299	.299	0	%100
8	MP1A	Z	-.517	-.517	0	%100
9	MP2A	X	.299	.299	0	%100
10	MP2A	Z	-.517	-.517	0	%100
11	MP3A	X	.362	.362	0	%100
12	MP3A	Z	-.626	-.626	0	%100
13	MP3.5A	X	.299	.299	0	%100
14	MP3.5A	Z	-.517	-.517	0	%100
15	MP4A	X	.299	.299	0	%100
16	MP4A	Z	-.517	-.517	0	%100
17	MP5A	X	.299	.299	0	%100
18	MP5A	Z	-.517	-.517	0	%100
19	M18	X	.224	.224	0	%100
20	M18	Z	-.388	-.388	0	%100
21	M35	X	.647	.647	0	%100
22	M35	Z	-1.121	-1.121	0	%100
23	M36A	X	.394	.394	0	%100
24	M36A	Z	-.682	-.682	0	%100
25	M37A	X	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	0	0	0	%100
27	M45	X	.31	.31	0	%100
28	M45	Z	-.537	-.537	0	%100
29	MP1B	X	.299	.299	0	%100
30	MP1B	Z	-.517	-.517	0	%100
31	MP2B	X	.299	.299	0	%100
32	MP2B	Z	-.517	-.517	0	%100
33	MP3B	X	.362	.362	0	%100
34	MP3B	Z	-.626	-.626	0	%100
35	MP3.5B	X	.299	.299	0	%100
36	MP3.5B	Z	-.517	-.517	0	%100
37	MP4B	X	.299	.299	0	%100
38	MP4B	Z	-.517	-.517	0	%100
39	MP5B	X	.299	.299	0	%100
40	MP5B	Z	-.517	-.517	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	.543	.543	0	%100
44	M68	Z	-.94	-.94	0	%100
45	M71	X	.098	.098	0	%100
46	M71	Z	-.17	-.17	0	%100
47	M72	X	.393	.393	0	%100
48	M72	Z	-.681	-.681	0	%100
49	M80	X	.31	.31	0	%100
50	M80	Z	-.537	-.537	0	%100
51	MP1C	X	.299	.299	0	%100
52	MP1C	Z	-.517	-.517	0	%100
53	MP2C	X	.299	.299	0	%100
54	MP2C	Z	-.517	-.517	0	%100
55	MP3C	X	.362	.362	0	%100
56	MP3C	Z	-.626	-.626	0	%100
57	MP3.5C	X	.299	.299	0	%100
58	MP3.5C	Z	-.517	-.517	0	%100
59	MP4C	X	.299	.299	0	%100
60	MP4C	Z	-.517	-.517	0	%100
61	MP5C	X	.299	.299	0	%100
62	MP5C	Z	-.517	-.517	0	%100
63	M87	X	.224	.224	0	%100
64	M87	Z	-.388	-.388	0	%100
65	M103	X	.647	.647	0	%100
66	M103	Z	-1.121	-1.121	0	%100
67	M106	X	.224	.224	0	%100
68	M106	Z	-.388	-.388	0	%100
69	M107	X	.224	.224	0	%100
70	M107	Z	-.388	-.388	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.511	.511	0	%100
2	A1	Z	-.295	-.295	0	%100
3	A2	X	.227	.227	0	%100
4	A2	Z	-.131	-.131	0	%100
5	A10	X	.537	.537	0	%100
6	A10	Z	-.31	-.31	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	.517	.517	0 %100
8	MP1A	Z	-.299	-.299	0 %100
9	MP2A	X	.517	.517	0 %100
10	MP2A	Z	-.299	-.299	0 %100
11	MP3A	X	.626	.626	0 %100
12	MP3A	Z	-.362	-.362	0 %100
13	MP3.5A	X	.517	.517	0 %100
14	MP3.5A	Z	-.299	-.299	0 %100
15	MP4A	X	.517	.517	0 %100
16	MP4A	Z	-.299	-.299	0 %100
17	MP5A	X	.517	.517	0 %100
18	MP5A	Z	-.299	-.299	0 %100
19	M18	X	.129	.129	0 %100
20	M18	Z	-.075	-.075	0 %100
21	M35	X	1.001	1.001	0 %100
22	M35	Z	-.578	-.578	0 %100
23	M36A	X	.511	.511	0 %100
24	M36A	Z	-.295	-.295	0 %100
25	M37A	X	.227	.227	0 %100
26	M37A	Z	-.131	-.131	0 %100
27	M45	X	.537	.537	0 %100
28	M45	Z	-.31	-.31	0 %100
29	MP1B	X	.517	.517	0 %100
30	MP1B	Z	-.299	-.299	0 %100
31	MP2B	X	.517	.517	0 %100
32	MP2B	Z	-.299	-.299	0 %100
33	MP3B	X	.626	.626	0 %100
34	MP3B	Z	-.362	-.362	0 %100
35	MP3.5B	X	.517	.517	0 %100
36	MP3.5B	Z	-.299	-.299	0 %100
37	MP4B	X	.517	.517	0 %100
38	MP4B	Z	-.299	-.299	0 %100
39	MP5B	X	.517	.517	0 %100
40	MP5B	Z	-.299	-.299	0 %100
41	M52	X	.129	.129	0 %100
42	M52	Z	-.075	-.075	0 %100
43	M68	X	1.001	1.001	0 %100
44	M68	Z	-.578	-.578	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	0	0	0 %100
47	M72	X	.907	.907	0 %100
48	M72	Z	-.524	-.524	0 %100
49	M80	X	.537	.537	0 %100
50	M80	Z	-.31	-.31	0 %100
51	MP1C	X	.517	.517	0 %100
52	MP1C	Z	-.299	-.299	0 %100
53	MP2C	X	.517	.517	0 %100
54	MP2C	Z	-.299	-.299	0 %100
55	MP3C	X	.626	.626	0 %100
56	MP3C	Z	-.362	-.362	0 %100
57	MP3.5C	X	.517	.517	0 %100
58	MP3.5C	Z	-.299	-.299	0 %100
59	MP4C	X	.517	.517	0 %100
60	MP4C	Z	-.299	-.299	0 %100
61	MP5C	X	.517	.517	0 %100
62	MP5C	Z	-.299	-.299	0 %100
63	M87	X	.517	.517	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	-.299	-.299	0 %100
65	M103	X	1.181	1.181	0 %100
66	M103	Z	-.682	-.682	0 %100
67	M106	X	.517	.517	0 %100
68	M106	Z	-.299	-.299	0 %100
69	M107	X	.129	.129	0 %100
70	M107	Z	-.075	-.075	0 %100
71	M108	X	.129	.129	0 %100
72	M108	Z	-.075	-.075	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.787	.787	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A10	X	.62	.62	0 %100
6	A10	Z	0	0	0 %100
7	MP1A	X	.597	.597	0 %100
8	MP1A	Z	0	0	0 %100
9	MP2A	X	.597	.597	0 %100
10	MP2A	Z	0	0	0 %100
11	MP3A	X	.723	.723	0 %100
12	MP3A	Z	0	0	0 %100
13	MP3.5A	X	.597	.597	0 %100
14	MP3.5A	Z	0	0	0 %100
15	MP4A	X	.597	.597	0 %100
16	MP4A	Z	0	0	0 %100
17	MP5A	X	.597	.597	0 %100
18	MP5A	Z	0	0	0 %100
19	M18	X	0	0	0 %100
20	M18	Z	0	0	0 %100
21	M35	X	1.086	1.086	0 %100
22	M35	Z	0	0	0 %100
23	M36A	X	.197	.197	0 %100
24	M36A	Z	0	0	0 %100
25	M37A	X	.786	.786	0 %100
26	M37A	Z	0	0	0 %100
27	M45	X	.62	.62	0 %100
28	M45	Z	0	0	0 %100
29	MP1B	X	.597	.597	0 %100
30	MP1B	Z	0	0	0 %100
31	MP2B	X	.597	.597	0 %100
32	MP2B	Z	0	0	0 %100
33	MP3B	X	.723	.723	0 %100
34	MP3B	Z	0	0	0 %100
35	MP3.5B	X	.597	.597	0 %100
36	MP3.5B	Z	0	0	0 %100
37	MP4B	X	.597	.597	0 %100
38	MP4B	Z	0	0	0 %100
39	MP5B	X	.597	.597	0 %100
40	MP5B	Z	0	0	0 %100
41	M52	X	.448	.448	0 %100
42	M52	Z	0	0	0 %100
43	M68	X	1.294	1.294	0 %100
44	M68	Z	0	0	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	.197	.197	0	%100
46	M71	Z	0	0	0	%100
47	M72	X	.786	.786	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	.62	.62	0	%100
50	M80	Z	0	0	0	%100
51	MP1C	X	.597	.597	0	%100
52	MP1C	Z	0	0	0	%100
53	MP2C	X	.597	.597	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	.723	.723	0	%100
56	MP3C	Z	0	0	0	%100
57	MP3.5C	X	.597	.597	0	%100
58	MP3.5C	Z	0	0	0	%100
59	MP4C	X	.597	.597	0	%100
60	MP4C	Z	0	0	0	%100
61	MP5C	X	.597	.597	0	%100
62	MP5C	Z	0	0	0	%100
63	M87	X	.448	.448	0	%100
64	M87	Z	0	0	0	%100
65	M103	X	1.294	1.294	0	%100
66	M103	Z	0	0	0	%100
67	M106	X	.448	.448	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	0	0	0	%100
71	M108	X	.448	.448	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.511	.511	0	%100
2	A1	Z	.295	.295	0	%100
3	A2	X	.227	.227	0	%100
4	A2	Z	.131	.131	0	%100
5	A10	X	.537	.537	0	%100
6	A10	Z	.31	.31	0	%100
7	MP1A	X	.517	.517	0	%100
8	MP1A	Z	.299	.299	0	%100
9	MP2A	X	.517	.517	0	%100
10	MP2A	Z	.299	.299	0	%100
11	MP3A	X	.626	.626	0	%100
12	MP3A	Z	.362	.362	0	%100
13	MP3.5A	X	.517	.517	0	%100
14	MP3.5A	Z	.299	.299	0	%100
15	MP4A	X	.517	.517	0	%100
16	MP4A	Z	.299	.299	0	%100
17	MP5A	X	.517	.517	0	%100
18	MP5A	Z	.299	.299	0	%100
19	M18	X	.129	.129	0	%100
20	M18	Z	.075	.075	0	%100
21	M35	X	1.001	1.001	0	%100
22	M35	Z	.578	.578	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	.907	.907	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	.524	.524	0	%100
27	M45	X	.537	.537	0	%100
28	M45	Z	.31	.31	0	%100
29	MP1B	X	.517	.517	0	%100
30	MP1B	Z	.299	.299	0	%100
31	MP2B	X	.517	.517	0	%100
32	MP2B	Z	.299	.299	0	%100
33	MP3B	X	.626	.626	0	%100
34	MP3B	Z	.362	.362	0	%100
35	MP3.5B	X	.517	.517	0	%100
36	MP3.5B	Z	.299	.299	0	%100
37	MP4B	X	.517	.517	0	%100
38	MP4B	Z	.299	.299	0	%100
39	MP5B	X	.517	.517	0	%100
40	MP5B	Z	.299	.299	0	%100
41	M52	X	.517	.517	0	%100
42	M52	Z	.299	.299	0	%100
43	M68	X	1.181	1.181	0	%100
44	M68	Z	.682	.682	0	%100
45	M71	X	.511	.511	0	%100
46	M71	Z	.295	.295	0	%100
47	M72	X	.227	.227	0	%100
48	M72	Z	.131	.131	0	%100
49	M80	X	.537	.537	0	%100
50	M80	Z	.31	.31	0	%100
51	MP1C	X	.517	.517	0	%100
52	MP1C	Z	.299	.299	0	%100
53	MP2C	X	.517	.517	0	%100
54	MP2C	Z	.299	.299	0	%100
55	MP3C	X	.626	.626	0	%100
56	MP3C	Z	.362	.362	0	%100
57	MP3.5C	X	.517	.517	0	%100
58	MP3.5C	Z	.299	.299	0	%100
59	MP4C	X	.517	.517	0	%100
60	MP4C	Z	.299	.299	0	%100
61	MP5C	X	.517	.517	0	%100
62	MP5C	Z	.299	.299	0	%100
63	M87	X	.129	.129	0	%100
64	M87	Z	.075	.075	0	%100
65	M103	X	1.001	1.001	0	%100
66	M103	Z	.578	.578	0	%100
67	M106	X	.129	.129	0	%100
68	M106	Z	.075	.075	0	%100
69	M107	X	.129	.129	0	%100
70	M107	Z	.075	.075	0	%100
71	M108	X	.517	.517	0	%100
72	M108	Z	.299	.299	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.098	.098	0	%100
2	A1	Z	.17	.17	0	%100
3	A2	X	.393	.393	0	%100
4	A2	Z	.681	.681	0	%100
5	A10	X	.31	.31	0	%100
6	A10	Z	.537	.537	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	.299	.299	0 %100
8	MP1A	Z	.517	.517	0 %100
9	MP2A	X	.299	.299	0 %100
10	MP2A	Z	.517	.517	0 %100
11	MP3A	X	.362	.362	0 %100
12	MP3A	Z	.626	.626	0 %100
13	MP3.5A	X	.299	.299	0 %100
14	MP3.5A	Z	.517	.517	0 %100
15	MP4A	X	.299	.299	0 %100
16	MP4A	Z	.517	.517	0 %100
17	MP5A	X	.299	.299	0 %100
18	MP5A	Z	.517	.517	0 %100
19	M18	X	.224	.224	0 %100
20	M18	Z	.388	.388	0 %100
21	M35	X	.647	.647	0 %100
22	M35	Z	1.121	1.121	0 %100
23	M36A	X	.098	.098	0 %100
24	M36A	Z	.17	.17	0 %100
25	M37A	X	.393	.393	0 %100
26	M37A	Z	.681	.681	0 %100
27	M45	X	.31	.31	0 %100
28	M45	Z	.537	.537	0 %100
29	MP1B	X	.299	.299	0 %100
30	MP1B	Z	.517	.517	0 %100
31	MP2B	X	.299	.299	0 %100
32	MP2B	Z	.517	.517	0 %100
33	MP3B	X	.362	.362	0 %100
34	MP3B	Z	.626	.626	0 %100
35	MP3.5B	X	.299	.299	0 %100
36	MP3.5B	Z	.517	.517	0 %100
37	MP4B	X	.299	.299	0 %100
38	MP4B	Z	.517	.517	0 %100
39	MP5B	X	.299	.299	0 %100
40	MP5B	Z	.517	.517	0 %100
41	M52	X	.224	.224	0 %100
42	M52	Z	.388	.388	0 %100
43	M68	X	.647	.647	0 %100
44	M68	Z	1.121	1.121	0 %100
45	M71	X	.394	.394	0 %100
46	M71	Z	.682	.682	0 %100
47	M72	X	0	0	0 %100
48	M72	Z	0	0	0 %100
49	M80	X	.31	.31	0 %100
50	M80	Z	.537	.537	0 %100
51	MP1C	X	.299	.299	0 %100
52	MP1C	Z	.517	.517	0 %100
53	MP2C	X	.299	.299	0 %100
54	MP2C	Z	.517	.517	0 %100
55	MP3C	X	.362	.362	0 %100
56	MP3C	Z	.626	.626	0 %100
57	MP3.5C	X	.299	.299	0 %100
58	MP3.5C	Z	.517	.517	0 %100
59	MP4C	X	.299	.299	0 %100
60	MP4C	Z	.517	.517	0 %100
61	MP5C	X	.299	.299	0 %100
62	MP5C	Z	.517	.517	0 %100
63	M87	X	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	0	0	0	%100
65	M103	X	.543	.543	0	%100
66	M103	Z	.94	.94	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	.224	.224	0	%100
70	M107	Z	.388	.388	0	%100
71	M108	X	.224	.224	0	%100
72	M108	Z	.388	.388	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	1.048	1.048	0	%100
5	A10	X	0	0	0	%100
6	A10	Z	.62	.62	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	.597	.597	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.597	.597	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	.723	.723	0	%100
13	MP3.5A	X	0	0	0	%100
14	MP3.5A	Z	.597	.597	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	.597	.597	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	.597	.597	0	%100
19	M18	X	0	0	0	%100
20	M18	Z	.597	.597	0	%100
21	M35	X	0	0	0	%100
22	M35	Z	1.364	1.364	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	.59	.59	0	%100
25	M37A	X	0	0	0	%100
26	M37A	Z	.262	.262	0	%100
27	M45	X	0	0	0	%100
28	M45	Z	.62	.62	0	%100
29	MP1B	X	0	0	0	%100
30	MP1B	Z	.597	.597	0	%100
31	MP2B	X	0	0	0	%100
32	MP2B	Z	.597	.597	0	%100
33	MP3B	X	0	0	0	%100
34	MP3B	Z	.723	.723	0	%100
35	MP3.5B	X	0	0	0	%100
36	MP3.5B	Z	.597	.597	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	.597	.597	0	%100
39	MP5B	X	0	0	0	%100
40	MP5B	Z	.597	.597	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	.149	.149	0	%100
43	M68	X	0	0	0	%100
44	M68	Z	1.155	1.155	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
45	M71	X	0	0	0	%100
46	M71	Z	.59	.59	0	%100
47	M72	X	0	0	0	%100
48	M72	Z	.262	.262	0	%100
49	M80	X	0	0	0	%100
50	M80	Z	.62	.62	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	.597	.597	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	.597	.597	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	.723	.723	0	%100
57	MP3.5C	X	0	0	0	%100
58	MP3.5C	Z	.597	.597	0	%100
59	MP4C	X	0	0	0	%100
60	MP4C	Z	.597	.597	0	%100
61	MP5C	X	0	0	0	%100
62	MP5C	Z	.597	.597	0	%100
63	M87	X	0	0	0	%100
64	M87	Z	.149	.149	0	%100
65	M103	X	0	0	0	%100
66	M103	Z	1.155	1.155	0	%100
67	M106	X	0	0	0	%100
68	M106	Z	.149	.149	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	.597	.597	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	.149	.149	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.098	-.098	0	%100
2	A1	Z	.17	.17	0	%100
3	A2	X	-.393	-.393	0	%100
4	A2	Z	.681	.681	0	%100
5	A10	X	-.31	-.31	0	%100
6	A10	Z	.537	.537	0	%100
7	MP1A	X	-.299	-.299	0	%100
8	MP1A	Z	.517	.517	0	%100
9	MP2A	X	-.299	-.299	0	%100
10	MP2A	Z	.517	.517	0	%100
11	MP3A	X	-.362	-.362	0	%100
12	MP3A	Z	.626	.626	0	%100
13	MP3.5A	X	-.299	-.299	0	%100
14	MP3.5A	Z	.517	.517	0	%100
15	MP4A	X	-.299	-.299	0	%100
16	MP4A	Z	.517	.517	0	%100
17	MP5A	X	-.299	-.299	0	%100
18	MP5A	Z	.517	.517	0	%100
19	M18	X	-.224	-.224	0	%100
20	M18	Z	.388	.388	0	%100
21	M35	X	-.647	-.647	0	%100
22	M35	Z	1.121	1.121	0	%100
23	M36A	X	-.394	-.394	0	%100
24	M36A	Z	.682	.682	0	%100
25	M37A	X	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	0	0	0	%100
27	M45	X	-.31	-.31	0	%100
28	M45	Z	.537	.537	0	%100
29	MP1B	X	-.299	-.299	0	%100
30	MP1B	Z	.517	.517	0	%100
31	MP2B	X	-.299	-.299	0	%100
32	MP2B	Z	.517	.517	0	%100
33	MP3B	X	-.362	-.362	0	%100
34	MP3B	Z	.626	.626	0	%100
35	MP3.5B	X	-.299	-.299	0	%100
36	MP3.5B	Z	.517	.517	0	%100
37	MP4B	X	-.299	-.299	0	%100
38	MP4B	Z	.517	.517	0	%100
39	MP5B	X	-.299	-.299	0	%100
40	MP5B	Z	.517	.517	0	%100
41	M52	X	0	0	0	%100
42	M52	Z	0	0	0	%100
43	M68	X	-.543	-.543	0	%100
44	M68	Z	.94	.94	0	%100
45	M71	X	-.098	-.098	0	%100
46	M71	Z	.17	.17	0	%100
47	M72	X	-.393	-.393	0	%100
48	M72	Z	.681	.681	0	%100
49	M80	X	-.31	-.31	0	%100
50	M80	Z	.537	.537	0	%100
51	MP1C	X	-.299	-.299	0	%100
52	MP1C	Z	.517	.517	0	%100
53	MP2C	X	-.299	-.299	0	%100
54	MP2C	Z	.517	.517	0	%100
55	MP3C	X	-.362	-.362	0	%100
56	MP3C	Z	.626	.626	0	%100
57	MP3.5C	X	-.299	-.299	0	%100
58	MP3.5C	Z	.517	.517	0	%100
59	MP4C	X	-.299	-.299	0	%100
60	MP4C	Z	.517	.517	0	%100
61	MP5C	X	-.299	-.299	0	%100
62	MP5C	Z	.517	.517	0	%100
63	M87	X	-.224	-.224	0	%100
64	M87	Z	.388	.388	0	%100
65	M103	X	-.647	-.647	0	%100
66	M103	Z	1.121	1.121	0	%100
67	M106	X	-.224	-.224	0	%100
68	M106	Z	.388	.388	0	%100
69	M107	X	-.224	-.224	0	%100
70	M107	Z	.388	.388	0	%100
71	M108	X	0	0	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.511	-.511	0	%100
2	A1	Z	.295	.295	0	%100
3	A2	X	-.227	-.227	0	%100
4	A2	Z	.131	.131	0	%100
5	A10	X	-.537	-.537	0	%100
6	A10	Z	.31	.31	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	-.517	-.517	0 %100
8	MP1A	Z	.299	.299	0 %100
9	MP2A	X	-.517	-.517	0 %100
10	MP2A	Z	.299	.299	0 %100
11	MP3A	X	-.626	-.626	0 %100
12	MP3A	Z	.362	.362	0 %100
13	MP3.5A	X	-.517	-.517	0 %100
14	MP3.5A	Z	.299	.299	0 %100
15	MP4A	X	-.517	-.517	0 %100
16	MP4A	Z	.299	.299	0 %100
17	MP5A	X	-.517	-.517	0 %100
18	MP5A	Z	.299	.299	0 %100
19	M18	X	-.129	-.129	0 %100
20	M18	Z	.075	.075	0 %100
21	M35	X	-1.001	-1.001	0 %100
22	M35	Z	.578	.578	0 %100
23	M36A	X	-.511	-.511	0 %100
24	M36A	Z	.295	.295	0 %100
25	M37A	X	-.227	-.227	0 %100
26	M37A	Z	.131	.131	0 %100
27	M45	X	-.537	-.537	0 %100
28	M45	Z	.31	.31	0 %100
29	MP1B	X	-.517	-.517	0 %100
30	MP1B	Z	.299	.299	0 %100
31	MP2B	X	-.517	-.517	0 %100
32	MP2B	Z	.299	.299	0 %100
33	MP3B	X	-.626	-.626	0 %100
34	MP3B	Z	.362	.362	0 %100
35	MP3.5B	X	-.517	-.517	0 %100
36	MP3.5B	Z	.299	.299	0 %100
37	MP4B	X	-.517	-.517	0 %100
38	MP4B	Z	.299	.299	0 %100
39	MP5B	X	-.517	-.517	0 %100
40	MP5B	Z	.299	.299	0 %100
41	M52	X	-.129	-.129	0 %100
42	M52	Z	.075	.075	0 %100
43	M68	X	-1.001	-1.001	0 %100
44	M68	Z	.578	.578	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	0	0	0 %100
47	M72	X	-.907	-.907	0 %100
48	M72	Z	.524	.524	0 %100
49	M80	X	-.537	-.537	0 %100
50	M80	Z	.31	.31	0 %100
51	MP1C	X	-.517	-.517	0 %100
52	MP1C	Z	.299	.299	0 %100
53	MP2C	X	-.517	-.517	0 %100
54	MP2C	Z	.299	.299	0 %100
55	MP3C	X	-.626	-.626	0 %100
56	MP3C	Z	.362	.362	0 %100
57	MP3.5C	X	-.517	-.517	0 %100
58	MP3.5C	Z	.299	.299	0 %100
59	MP4C	X	-.517	-.517	0 %100
60	MP4C	Z	.299	.299	0 %100
61	MP5C	X	-.517	-.517	0 %100
62	MP5C	Z	.299	.299	0 %100
63	M87	X	-.517	-.517	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	.299	.299	0 %100
65	M103	X	-1.181	-1.181	0 %100
66	M103	Z	.682	.682	0 %100
67	M106	X	-.517	-.517	0 %100
68	M106	Z	.299	.299	0 %100
69	M107	X	-.129	-.129	0 %100
70	M107	Z	.075	.075	0 %100
71	M108	X	-.129	-.129	0 %100
72	M108	Z	.075	.075	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.787	-.787	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A10	X	-.62	-.62	0 %100
6	A10	Z	0	0	0 %100
7	MP1A	X	-.597	-.597	0 %100
8	MP1A	Z	0	0	0 %100
9	MP2A	X	-.597	-.597	0 %100
10	MP2A	Z	0	0	0 %100
11	MP3A	X	-.723	-.723	0 %100
12	MP3A	Z	0	0	0 %100
13	MP3.5A	X	-.597	-.597	0 %100
14	MP3.5A	Z	0	0	0 %100
15	MP4A	X	-.597	-.597	0 %100
16	MP4A	Z	0	0	0 %100
17	MP5A	X	-.597	-.597	0 %100
18	MP5A	Z	0	0	0 %100
19	M18	X	0	0	0 %100
20	M18	Z	0	0	0 %100
21	M35	X	-1.086	-1.086	0 %100
22	M35	Z	0	0	0 %100
23	M36A	X	-.197	-.197	0 %100
24	M36A	Z	0	0	0 %100
25	M37A	X	-.786	-.786	0 %100
26	M37A	Z	0	0	0 %100
27	M45	X	-.62	-.62	0 %100
28	M45	Z	0	0	0 %100
29	MP1B	X	-.597	-.597	0 %100
30	MP1B	Z	0	0	0 %100
31	MP2B	X	-.597	-.597	0 %100
32	MP2B	Z	0	0	0 %100
33	MP3B	X	-.723	-.723	0 %100
34	MP3B	Z	0	0	0 %100
35	MP3.5B	X	-.597	-.597	0 %100
36	MP3.5B	Z	0	0	0 %100
37	MP4B	X	-.597	-.597	0 %100
38	MP4B	Z	0	0	0 %100
39	MP5B	X	-.597	-.597	0 %100
40	MP5B	Z	0	0	0 %100
41	M52	X	-.448	-.448	0 %100
42	M52	Z	0	0	0 %100
43	M68	X	-1.294	-1.294	0 %100
44	M68	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	M71	X	-197	-197	0	%100
46	M71	Z	0	0	0	%100
47	M72	X	-786	-786	0	%100
48	M72	Z	0	0	0	%100
49	M80	X	-.62	-.62	0	%100
50	M80	Z	0	0	0	%100
51	MP1C	X	-.597	-.597	0	%100
52	MP1C	Z	0	0	0	%100
53	MP2C	X	-.597	-.597	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	-.723	-.723	0	%100
56	MP3C	Z	0	0	0	%100
57	MP3.5C	X	-.597	-.597	0	%100
58	MP3.5C	Z	0	0	0	%100
59	MP4C	X	-.597	-.597	0	%100
60	MP4C	Z	0	0	0	%100
61	MP5C	X	-.597	-.597	0	%100
62	MP5C	Z	0	0	0	%100
63	M87	X	-.448	-.448	0	%100
64	M87	Z	0	0	0	%100
65	M103	X	-1.294	-1.294	0	%100
66	M103	Z	0	0	0	%100
67	M106	X	-.448	-.448	0	%100
68	M106	Z	0	0	0	%100
69	M107	X	0	0	0	%100
70	M107	Z	0	0	0	%100
71	M108	X	-.448	-.448	0	%100
72	M108	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.511	-.511	0	%100
2	A1	Z	-.295	-.295	0	%100
3	A2	X	-.227	-.227	0	%100
4	A2	Z	-.131	-.131	0	%100
5	A10	X	-.537	-.537	0	%100
6	A10	Z	-.31	-.31	0	%100
7	MP1A	X	-.517	-.517	0	%100
8	MP1A	Z	-.299	-.299	0	%100
9	MP2A	X	-.517	-.517	0	%100
10	MP2A	Z	-.299	-.299	0	%100
11	MP3A	X	-.626	-.626	0	%100
12	MP3A	Z	-.362	-.362	0	%100
13	MP3.5A	X	-.517	-.517	0	%100
14	MP3.5A	Z	-.299	-.299	0	%100
15	MP4A	X	-.517	-.517	0	%100
16	MP4A	Z	-.299	-.299	0	%100
17	MP5A	X	-.517	-.517	0	%100
18	MP5A	Z	-.299	-.299	0	%100
19	M18	X	-.129	-.129	0	%100
20	M18	Z	-.075	-.075	0	%100
21	M35	X	-1.001	-1.001	0	%100
22	M35	Z	-.578	-.578	0	%100
23	M36A	X	0	0	0	%100
24	M36A	Z	0	0	0	%100
25	M37A	X	-.907	-.907	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
26	M37A	Z	-524	-524	0	%100
27	M45	X	-537	-537	0	%100
28	M45	Z	-31	-31	0	%100
29	MP1B	X	-517	-517	0	%100
30	MP1B	Z	-299	-299	0	%100
31	MP2B	X	-517	-517	0	%100
32	MP2B	Z	-299	-299	0	%100
33	MP3B	X	-626	-626	0	%100
34	MP3B	Z	-362	-362	0	%100
35	MP3.5B	X	-517	-517	0	%100
36	MP3.5B	Z	-299	-299	0	%100
37	MP4B	X	-517	-517	0	%100
38	MP4B	Z	-299	-299	0	%100
39	MP5B	X	-517	-517	0	%100
40	MP5B	Z	-299	-299	0	%100
41	M52	X	-517	-517	0	%100
42	M52	Z	-299	-299	0	%100
43	M68	X	-1.181	-1.181	0	%100
44	M68	Z	-682	-682	0	%100
45	M71	X	-511	-511	0	%100
46	M71	Z	-295	-295	0	%100
47	M72	X	-227	-227	0	%100
48	M72	Z	-131	-131	0	%100
49	M80	X	-537	-537	0	%100
50	M80	Z	-31	-31	0	%100
51	MP1C	X	-517	-517	0	%100
52	MP1C	Z	-299	-299	0	%100
53	MP2C	X	-517	-517	0	%100
54	MP2C	Z	-299	-299	0	%100
55	MP3C	X	-626	-626	0	%100
56	MP3C	Z	-362	-362	0	%100
57	MP3.5C	X	-517	-517	0	%100
58	MP3.5C	Z	-299	-299	0	%100
59	MP4C	X	-517	-517	0	%100
60	MP4C	Z	-299	-299	0	%100
61	MP5C	X	-517	-517	0	%100
62	MP5C	Z	-299	-299	0	%100
63	M87	X	-129	-129	0	%100
64	M87	Z	-075	-075	0	%100
65	M103	X	-1.001	-1.001	0	%100
66	M103	Z	-578	-578	0	%100
67	M106	X	-129	-129	0	%100
68	M106	Z	-075	-075	0	%100
69	M107	X	-129	-129	0	%100
70	M107	Z	-075	-075	0	%100
71	M108	X	-517	-517	0	%100
72	M108	Z	-299	-299	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-098	-098	0	%100
2	A1	Z	-17	-17	0	%100
3	A2	X	-393	-393	0	%100
4	A2	Z	-681	-681	0	%100
5	A10	X	-31	-31	0	%100
6	A10	Z	-537	-537	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	MP1A	X	-299	-299	0 %100
8	MP1A	Z	-517	-517	0 %100
9	MP2A	X	-299	-299	0 %100
10	MP2A	Z	-517	-517	0 %100
11	MP3A	X	-362	-362	0 %100
12	MP3A	Z	-626	-626	0 %100
13	MP3.5A	X	-299	-299	0 %100
14	MP3.5A	Z	-517	-517	0 %100
15	MP4A	X	-299	-299	0 %100
16	MP4A	Z	-517	-517	0 %100
17	MP5A	X	-299	-299	0 %100
18	MP5A	Z	-517	-517	0 %100
19	M18	X	-224	-224	0 %100
20	M18	Z	-388	-388	0 %100
21	M35	X	-647	-647	0 %100
22	M35	Z	-1.121	-1.121	0 %100
23	M36A	X	-098	-098	0 %100
24	M36A	Z	-17	-17	0 %100
25	M37A	X	-393	-393	0 %100
26	M37A	Z	-681	-681	0 %100
27	M45	X	-31	-31	0 %100
28	M45	Z	-537	-537	0 %100
29	MP1B	X	-299	-299	0 %100
30	MP1B	Z	-517	-517	0 %100
31	MP2B	X	-299	-299	0 %100
32	MP2B	Z	-517	-517	0 %100
33	MP3B	X	-362	-362	0 %100
34	MP3B	Z	-626	-626	0 %100
35	MP3.5B	X	-299	-299	0 %100
36	MP3.5B	Z	-517	-517	0 %100
37	MP4B	X	-299	-299	0 %100
38	MP4B	Z	-517	-517	0 %100
39	MP5B	X	-299	-299	0 %100
40	MP5B	Z	-517	-517	0 %100
41	M52	X	-224	-224	0 %100
42	M52	Z	-388	-388	0 %100
43	M68	X	-647	-647	0 %100
44	M68	Z	-1.121	-1.121	0 %100
45	M71	X	-394	-394	0 %100
46	M71	Z	-682	-682	0 %100
47	M72	X	0	0	0 %100
48	M72	Z	0	0	0 %100
49	M80	X	-31	-31	0 %100
50	M80	Z	-537	-537	0 %100
51	MP1C	X	-299	-299	0 %100
52	MP1C	Z	-517	-517	0 %100
53	MP2C	X	-299	-299	0 %100
54	MP2C	Z	-517	-517	0 %100
55	MP3C	X	-362	-362	0 %100
56	MP3C	Z	-626	-626	0 %100
57	MP3.5C	X	-299	-299	0 %100
58	MP3.5C	Z	-517	-517	0 %100
59	MP4C	X	-299	-299	0 %100
60	MP4C	Z	-517	-517	0 %100
61	MP5C	X	-299	-299	0 %100
62	MP5C	Z	-517	-517	0 %100
63	M87	X	0	0	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.%]	End Location[ft.%]
64	M87	Z	0	0	%100
65	M103	X	-.543	0	%100
66	M103	Z	-.94	0	%100
67	M106	X	0	0	%100
68	M106	Z	0	0	%100
69	M107	X	-.224	0	%100
70	M107	Z	-.388	0	%100
71	M108	X	-.224	0	%100
72	M108	Z	-.388	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	A1	m...1351.461	10	1234.455	1	2256.286	1	1.436	7	4.278	10	1.908	4
2		min-1364.7...	4	-1796.428	7	-3547.061	7	-1.029	1	-4.384	4	-2.42	10
3	N67	m...32.892	10	4371.719	19	2723.712	19	0	51	.001	50	0	50
4		min -32.62	4	-365.797	1	-200.174	1	0	1	-.002	49	-.001	49
5	N69A	m...1945.044	11	1170.853	6	1553.807	12	.644	3	2.18	12	1.351	12
6		min-1364.71	5	-1295.442	12	-1223.866	6	-.756	9	-2.256	6	-1.326	6
7	N132	m...321.229	6	1952.572	23	174.68	5	0	6	0	12	0	6
8		min-1032.2...	23	-603.742	6	-596.075	23	0	12	0	6	0	12
9	N137	m...1388.375	9	1194.478	9	1511.459	2	.679	11	2.2	8	1.302	8
10		min-1929.9...	3	-1269.639	3	-1219.307	8	-.723	5	-2.019	2	-1.321	2
11	N200	m...1014.62	15	1920.379	15	182.769	9	0	8	0	8	0	2
12		min-322.756	8	-628.086	9	-585.771	15	0	2	0	2	0	8
13	Totals:	m...3334.695	10	5632.587	16	3731.158	1						
14		min-3334.6...	4	2006.09	10	-3731.175	7						

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

Member	Shape	Code Che...	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn
1	MP3A	PIPE 2.5	.321	6	.074	6		11	3003...	50715	3.596	3.596	H1...
2	A1	HSS4X4X4	.313	0	.212	0	z	10	1343...	1395...	16.1...	16.1...	H1...
3	MP4A	PIPE 2.0	.304	6	.086	6		6	1491...	32130	1.872	1.872	H1...
4	MP3.5A	PIPE 2.0	.299	6	.084	6		4	1491...	32130	1.872	1.872	H1...
5	MP3.5C	PIPE 2.0	.290	6	.075	6		9	1491...	32130	1.872	1.872	H1...
6	MP3B	PIPE 2.5	.287	6	.064	6		4	3003...	50715	3.596	3.596	H1...
7	MP4C	PIPE 2.0	.275	6	.025	6		8	1491...	32130	1.872	1.872	H1...
8	MP5A	PIPE 2.0	.272	6	.118	3		10	1491...	32130	1.872	1.872	H1...
9	MP3C	PIPE 2.5	.268	6	.050	6		10	3003...	50715	3.596	3.596	H1...
10	MP1A	PIPE 2.0	.265	6	.118	3		10	1491...	32130	1.872	1.872	H1...
11	MP3.5B	PIPE 2.0	.262	6	.038	6		9	1491...	32130	1.872	1.872	H1...
12	MP2A	PIPE 2.0	.261	6	.053	6		1	1491...	32130	1.872	1.872	H1...
13	A2	HSS4X4X4	.258	6	.155	6	z	6	7636...	1395...	16.1...	16.1...	H1...
14	M18	PIPE 2.0	.256	6.75	.121	2.25		6	6830...	32130	1.872	1.872	H1...
15	M36A	HSS4X4X4	.240	2.5	.102	2.5	y	7	1343...	1395...	16.1...	16.1...	H1...
16	MP2B	PIPE 2.0	.237	6	.018	6		5	1491...	32130	1.872	1.872	H1...
17	M71	HSS4X4X4	.228	2.5	.100	2.5	y	2	1343...	1395...	16.1...	16.1...	H1...
18	M52	PIPE 2.0	.194	6.75	.058	6.75		10	6830...	32130	1.872	1.872	H1...
19	MP5C	PIPE 2.0	.191	6	.027	6		9	1491...	32130	1.872	1.872	H1...



Company : GPD
 Designer : enieto
 Job Number : Project No. 10090849
 Model Name : 468920-VZW_MT_LOT_SectorA_H

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

Member	Shape	Code Che...	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn
20	MP4B	PIPE 2.0	.188	6	.022	6		6	1491...	32130	1.872	1.872	H1-...
21	M37A	HSS4X4X4	.176	6	.140	6	z	5	7636...	1395...	16.1...	16.1...	H1-...
22	M87	PIPE 2.0	.175	6.75	.084	5.25		9	6830...	32130	1.872	1.872	H1-...
23	MP1B	PIPE 2.0	.174	6	.021	6		5	1491...	32130	1.872	1.872	H1-...
24	MP2C	PIPE 2.0	.167	6	.017	6		8	1491...	32130	1.872	1.872	H1-...
25	M72	HSS4X4X4	.166	6	.115	6.125	z	8	7636...	1395...	16.1...	16.1...	H1-...
26	MP5B	PIPE 2.0	.134	6	.020	6		7	1491...	32130	1.872	1.872	H1-...
27	MP1C	PIPE 2.0	.124	6	.017	6		7	1491...	32130	1.872	1.872	H1-...
28	M35	LL3x3x3x3	.107	4.205	.007	4.205	y	49	4791...	70632	5.543	3.751	1 H1-...
29	M68	LL3x3x3x3	.048	4.205	.004	0	y	11	4791...	70632	5.543	3.751	1 H1-...
30	M103	LL3x3x3x3	.047	4.205	.004	4.205	y	3	4791...	70632	5.543	3.751	1 H1-...
31	M108	PIPE 2.0	.041	2.666	.075	0		12	2284...	32130	1.872	1.872	H1-...
32	M106	PIPE 2.0	.040	2.666	.090	0		8	2284...	32130	1.872	1.872	H1-...
33	M107	PIPE 2.0	.035	2.666	.052	5.333		4	2284...	32130	1.872	1.872	H1-...
34	A10	PIPE 4.0	.000	.75	.000	.75		10	9257...	93240	10.6...	10.6...	H1-...
35	M45	PIPE 4.0	.000	.75	.000	.75		7	9257...	93240	10.6...	10.6...	H1-...
36	M80	PIPE 4.0	.000	.75	.000	.75		1	9257...	93240	10.6...	10.6...	H1-...



TIA-222-H CONNECTION CHECK
Mount to Tower Connection - Typ. All Sectors
2021740.468920.02

Bolt Information		
Bolt Diameter (d)	0.5	in
Net Tensile Area (A _n)	0.142	in ²
# of Bolts Total (n)	4	
Bolt Distance Up-Down	10	in
Bolt Distance Left-Right	3	in
Bolt Grade	A325N	
Bolt Tensile Strength (F _{ub})	120	ksi

Flange Information		
Height (h)	12	in
Width (w)	6	in
Thickness (t)	0.5	in
Steel Grade	A36	
Plate Yield Strength (F _y)	36	ksi
Support Arm Height	4	in
Support Arm Width	4	in

RISA 3D Reactions		
Moment (M)	1.44	k-ft
Axial (T)	3.55	kips
Shear (V)	1.80	kips

Bolt Capacity		
Nominal Tensile Strength (R _{nt})	17.028	kips
Nominal Shear Strength (R _{nv})	11.78	kips
Bolt Tensile Force (T _{ub})	8.93	kips
Bolt Shear Force (V _{ub})	0.349	kips
T _{ub} /φR _{nt}	0.69934	
V _{ub} /φR _{nv}	0.03947	
(V _{ub} /φR _{nv}) ² +(T _{ub} /φR _{nt}) ²	0.49064	
Bolt Capacity =	69.9%	OK

Plate Capacity		
Bolt Circle (D _{bc})	10.440	in
Effective Width (B _{eff})	6.00	in
Flexural Moment (M _u)	10.49	k-in
Flexural Strength (φM _n)	12.15	k-in
Plate Capacity=	86.3%	OK

Weld Capacity		
Fillet (leg) =	0.250	in
Throat (eff) =	0.18	in
F _{exx} =	70.00	ksi
φ =	0.75	
φR _n =	5.57	kips/in
Weld Capacity=	58.9%	OK



TIA-222-H CONNECTION CHECK
Mod Kickers to Tower Connection - Typ. All Sectors
2021740.468920.02

Bolt Information		
Bolt Diameter (d)	0.625	in
Net Tensile Area (A _n)	0.226	in ²
# of Bolts Total (n)	4	
Bolt Distance Up-Down	6	in
Bolt Distance Left-Right	6	in
Bolt Grade	A325N	
Bolt Tensile Strength (F _{ub})	120	ksi

RISA 3D Reactions		
Moment (M)	0.00	k-ft
Axial (T)	-2.72	kips
Shear (V)	4.37	kips

Bolt Capacity		
Nominal Tensile Strength (R _{nt})	27.120	kips
Nominal Shear Strength (R _{nv})	18.41	kips
Bolt Tensile Force (T _{ub})	-0.68	kips
Bolt Shear Force (V _{ub})	1.093	kips
$T_{ub}/\phi R_{nt}$	-0.03348	
$V_{ub}/\phi R_{nv}$	0.07916	
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.00739	
Bolt Capacity =	7.9%	OK

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide TES 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact TES 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.vzwsmart.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 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 modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - 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
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
 - 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.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by TES.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the TES certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the TES Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials


















The material utilized was an "equivalent" and included as part of the contractor submission is the TES certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

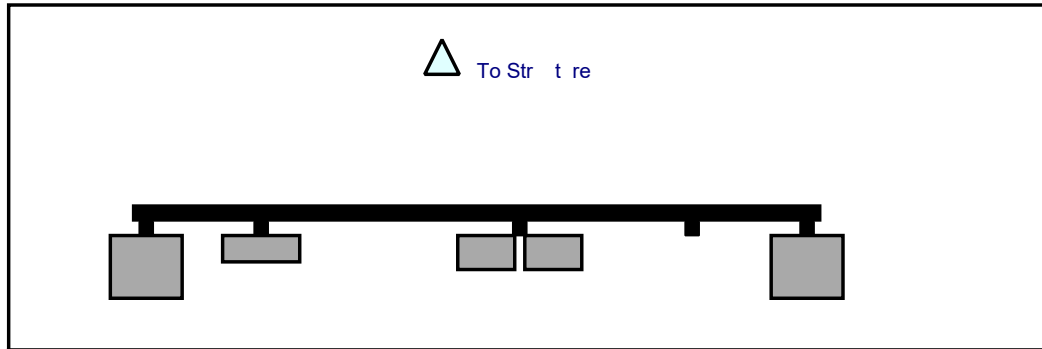
Name _____

Signature _____

Schedule A – Photo & Document File Structure

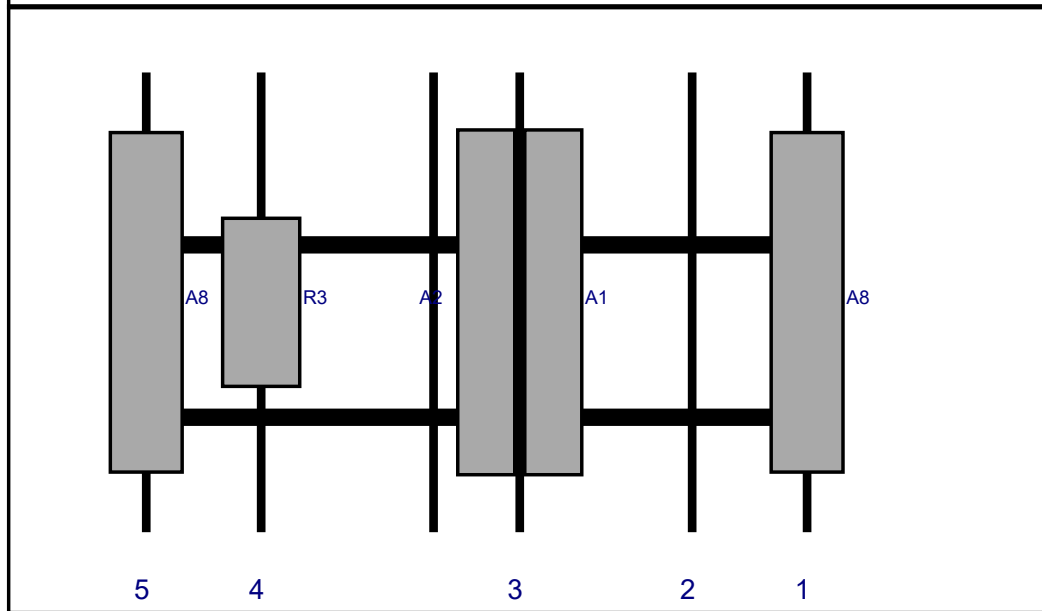
-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present
-  Certifications – Submission of this document including certifications
-  Specific Required Additional Photos

Plan View



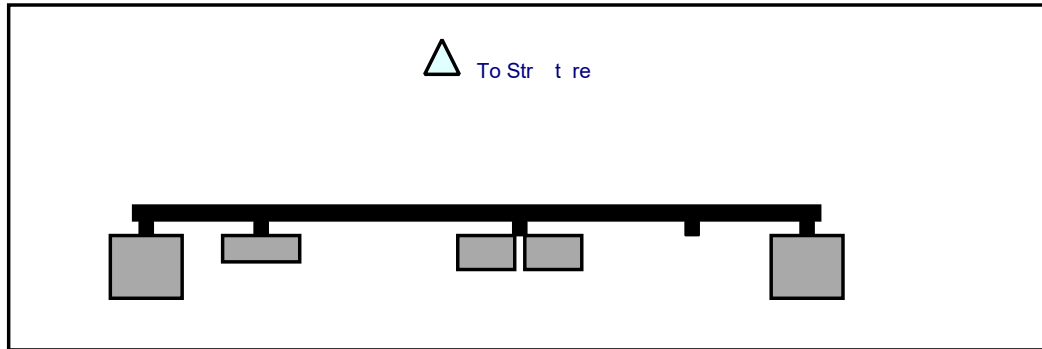
Front View

Looking at Structure



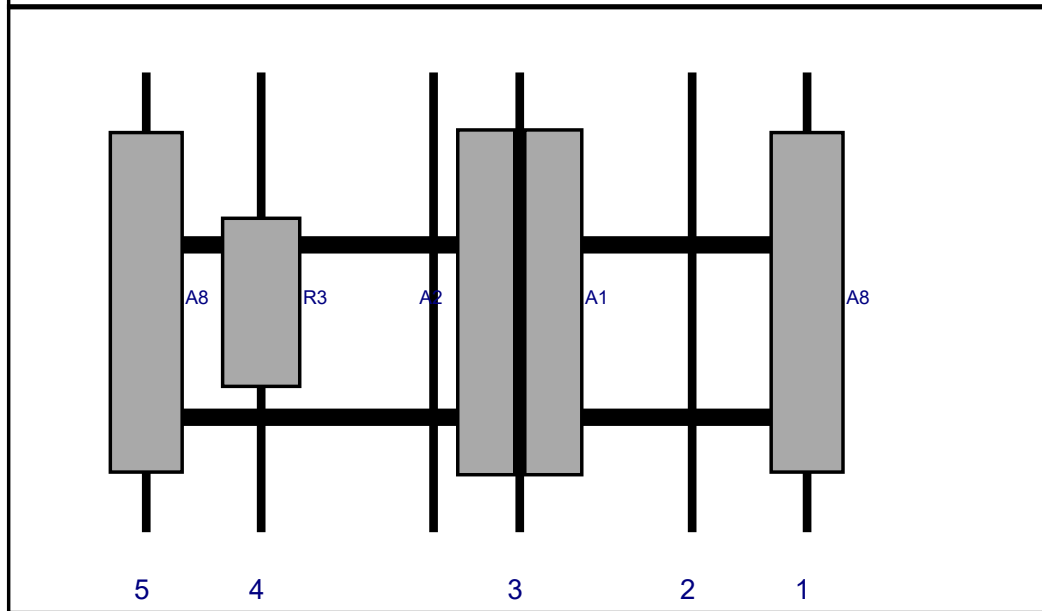
Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A8	LPA-80063/6CF_5	70.9	15	141	1		Front	48	0	Ret i ed	
A1	NHH-65B-R2B	72	11.9	81	3		Front	48	7	Added	
A2	NHHSS-65B-R2BT2	72	11.9	81	3		Front	48	-7	Added	
R3	MT6407-77A	35.1	16.1	27	4		Front	48	0	Added	
A8	LPA-80063/6CF_5	70.9	15	3	5		Front	48	0	Ret i ed	

Plan View



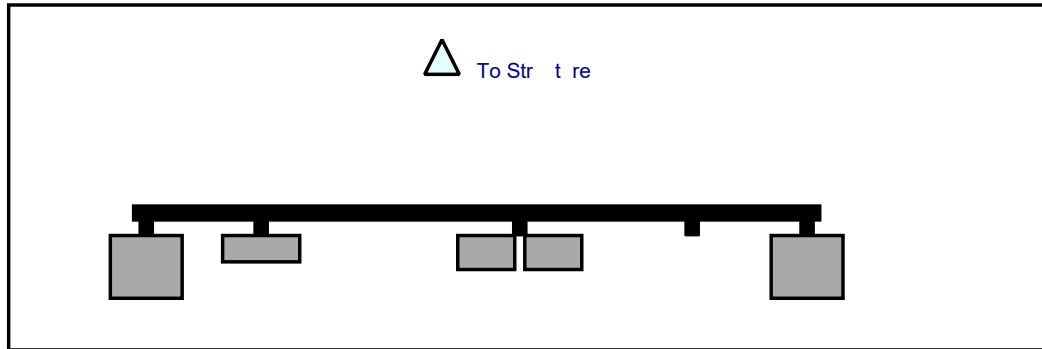
Front View

Lo o i g t Str t re



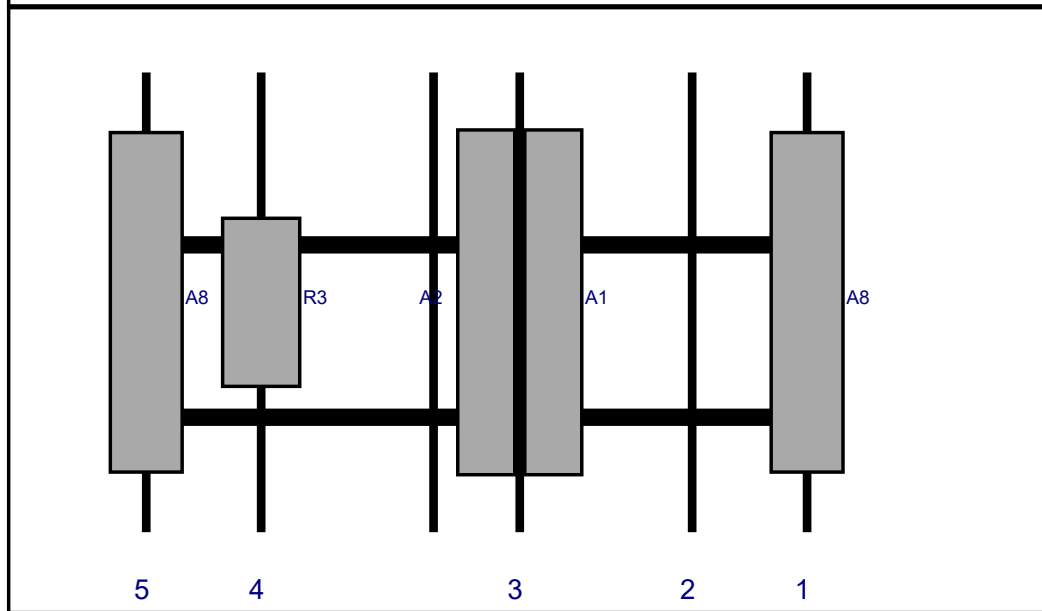
Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A8	LPA-80063/6CF_5	70.9	15	141	1		Fro t	48	0	Ret i ed	
A1	NHH-65B-R2B	72	11.9	81	3		Fro t	48	7	Added	
A2	NHHSS-65B-R2BT2	72	11.9	81	3		Fro t	48	-7	Added	
R3	MT6407-77A	35.1	16.1	27	4		Fro t	48	0	Added	
A8	LPA-80063/6CF_5	70.9	15	3	5		Fro t	48	0	Ret i ed	

Plan View



Front View

Lo o i g t Str t re



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A8	LPA-80063/6CF_5	70.9	15	141	1		Fro t	48	0	Ret i ed	
A1	NHH-65B-R2B	72	11.9	81	3		Fro t	48	7	Added	
A2	NHHSS-65B-R2BT2	72	11.9	81	3		Fro t	48	-7	Added	
R3	MT6407-77A	35.1	16.1	27	4		Fro t	48	0	Added	
A8	LPA-80063/6CF_5	70.9	15	3	5		Fro t	48	0	Ret i ed	

Subject TIA-222-H Usage

Site Information Site ID: 468920-VZW / BLOOMFIELD BLUE HILLS CT
Site Name: BLOOMFIELD BLUE HILLS CT
Carrier Name: Verizon Wireless
Address: 811 Blue Hills Ave, Bloomfield, Connecticut 06002
Hartford County
Latitude: 41.809683°
Longitude: -72.696597°

Structure Information Tower Type: 110-Ft Monopole
Mount Type: 12.00-Ft T-Arm

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 2018 Connecticut State Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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 maps 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 methods, seismic analysis, 30-degree increment wind directions 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,

GPD Group



Christopher J. Scheks, P.E.
Connecticut #: 0030026

Site Name: **BLOOMFIELD BLUE HILLS 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	689	2756	107	0.0087	0.5007	1.73%
VZW CDMA	869	2	400	800	107	0.0025	0.5793	0.43%
VZW Cellular	869	4	699	2796	107	0.0088	0.5793	1.52%
VZW PCS	1980	4	1500	6000	107	0.0188	1.0000	1.88%
VZW AWS	2125	4	1462	5848	107	0.0184	1.0000	1.84%
VZW CBAND	3730	4	6531	26124	107	0.0821	1.0000	8.21%
VZW CBRS	3625	4	12	48	107	0.0002	1.0000	0.02%

Total Percentage of Maximum Permissible Exposure 15.62%

*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

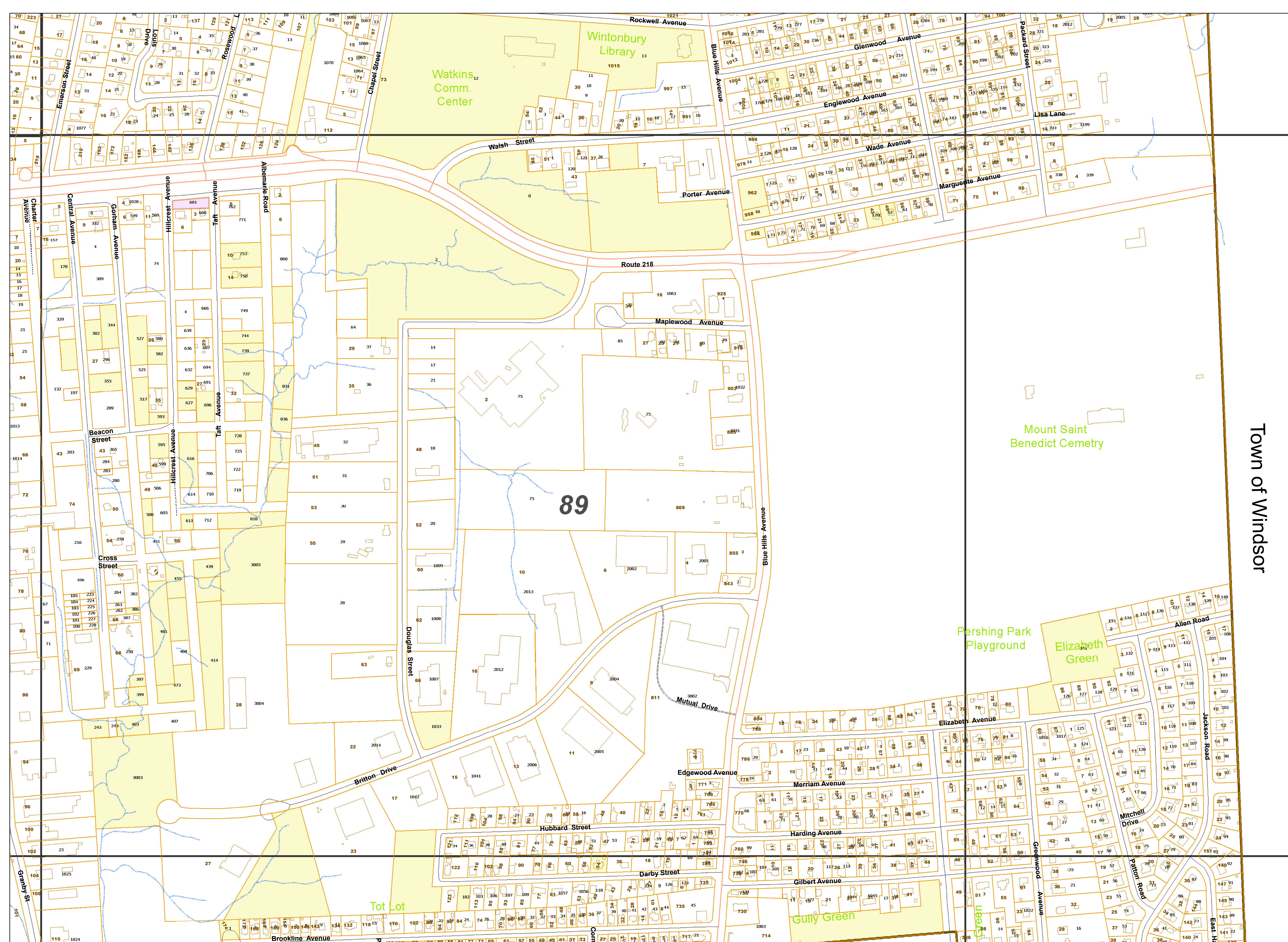
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

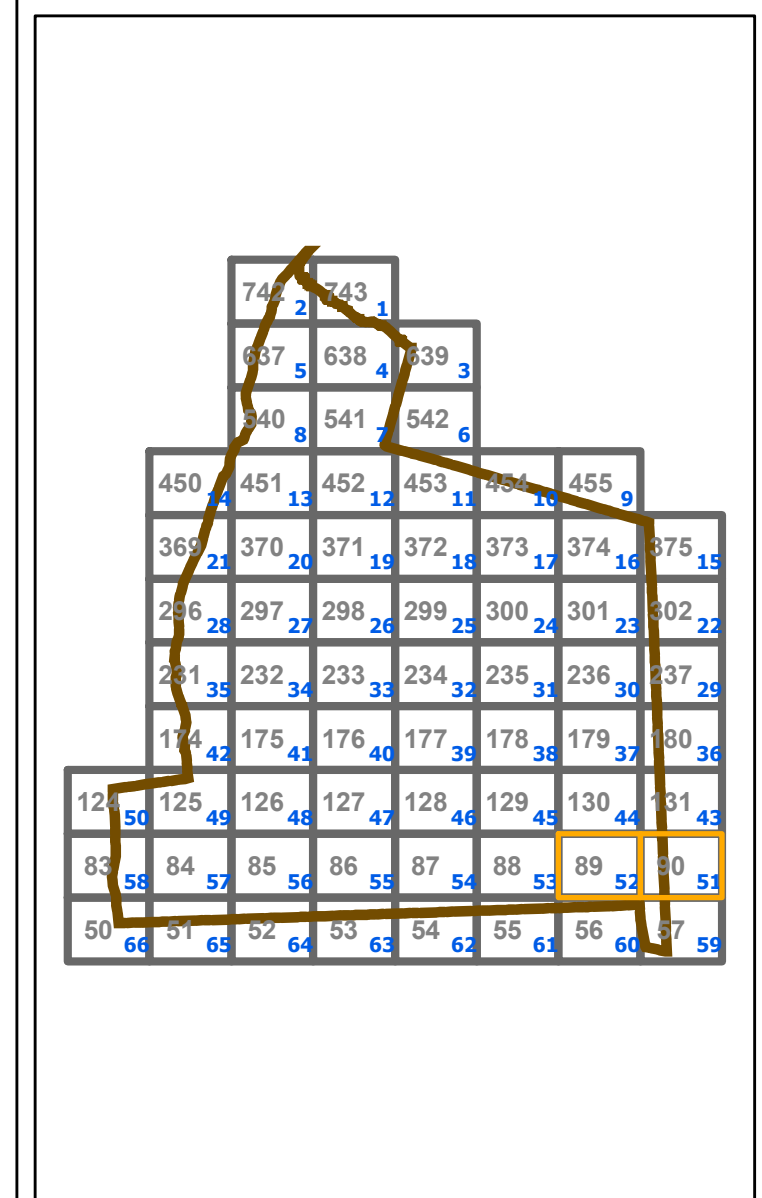
mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



- CL&P
- Town of Bloomfield
- State of Connecticut



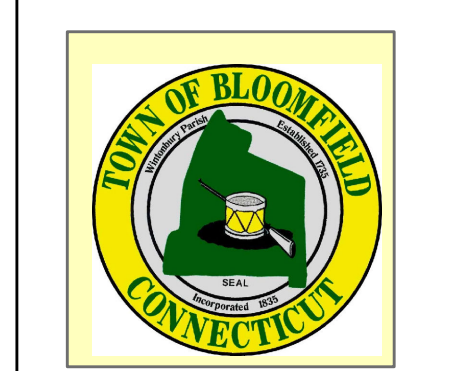
House Nos. in **Brown**
 Lot Nos. in **Black**

- State Route
- Town Road (Paved)
- Town Road (Unpaved)
- Private Road

This map is for planning purposes only.
 The Town of Bloomfield makes no claims,
 representations or warranties, expressed or implied,
 concerning its validity, reliability or accuracy.

Data Sources: MDC, CRCOG
 Imagery - CRCOG 2009

Scale 1:2400
 (1 Inch = 200 Feet)



Town of Windsor



Town of Bloomfield, CT

Property Listing Report

Map Block Lot

89-2-3002CELL

Building # 1

PID 101563

Account

89230C

Property Information

Property Location	811 BLUE HILLS AVE
Owner	VERIZON WIRELESS
Co-Owner	
Mailing Address	PO BOX 2549 ADDISON TX 75001
Land Use	230 Com Cell Site
Land Class	C
Zoning Code	
Census Tract	

Site Index	
Acreage	0
Utilities	
Lot Setting/Desc	
Fire District	B
Book / Page	0/0

Primary Construction Details

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

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

(*Industrial / Commercial Details)

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

Photo



Sketch



GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
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.
27. CONTRACTOR SHALL NOTIFY VERIZON 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.
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.
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.
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 REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
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.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON 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.
33. VERIZON 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 OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON 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
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - 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.
 - 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.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

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.



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A.T. ENGINEERING SERVICE, PLLC
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 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JW	10/26/21

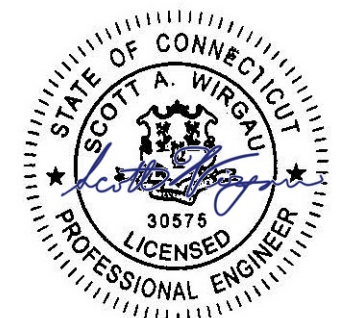
ATC SITE NUMBER:
411187

ATC SITE NAME:
HARTFORD NORTH 2 CT

VERIZON SITE NAME:
BLOOMFIELD BLUE HILLS CT

SITE ADDRESS:
 811 BLUE HILLS AVENUE
 BLOOMFIELD, CT 06002

SEAL:



DATE DRAWN:	10/26/21
ATC JOB NO:	13713882_D1
CUSTOMER ID:	BLOOMFIELD BLUE HILLS CT
CUSTOMER #:	468920

GENERAL NOTES

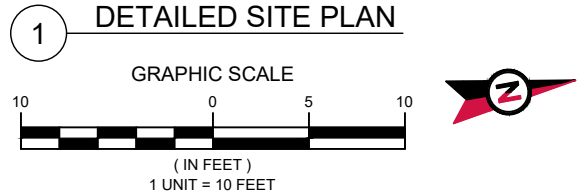
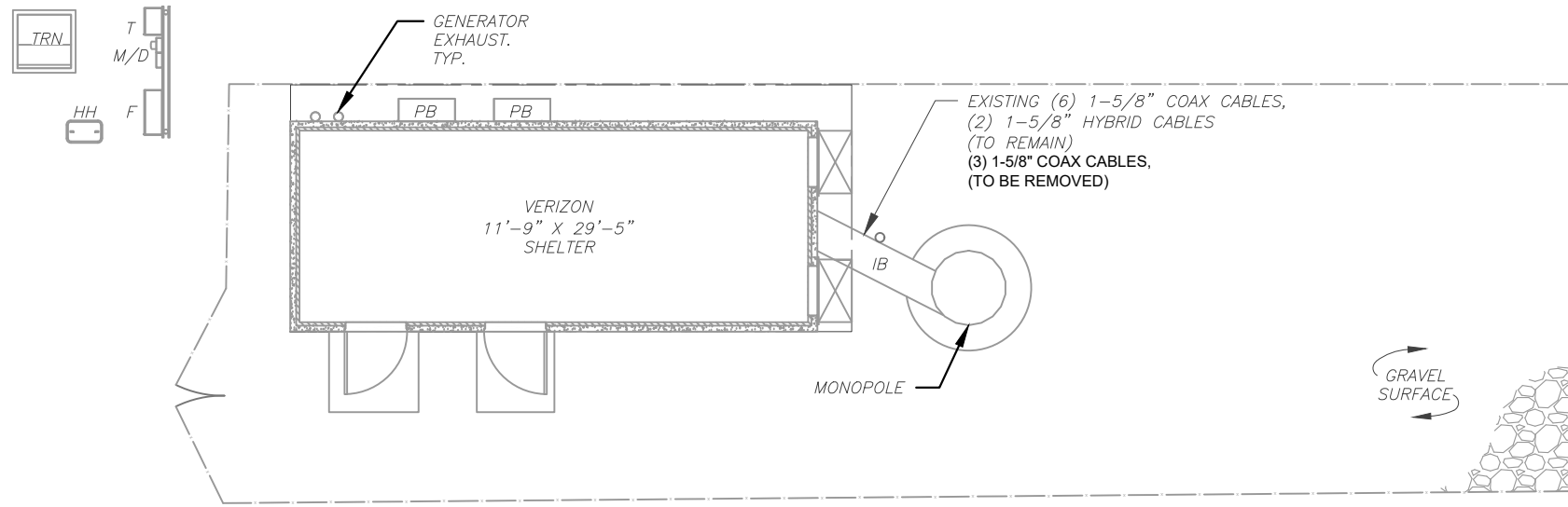
SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

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



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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JW	10/26/21

ATC SITE NUMBER:
411187

ATC SITE NAME:
HARTFORD NORTH 2 CT

VERIZON SITE NAME:
BLOOMFIELD BLUE HILLS CT

SITE ADDRESS:
811 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

SEAL:

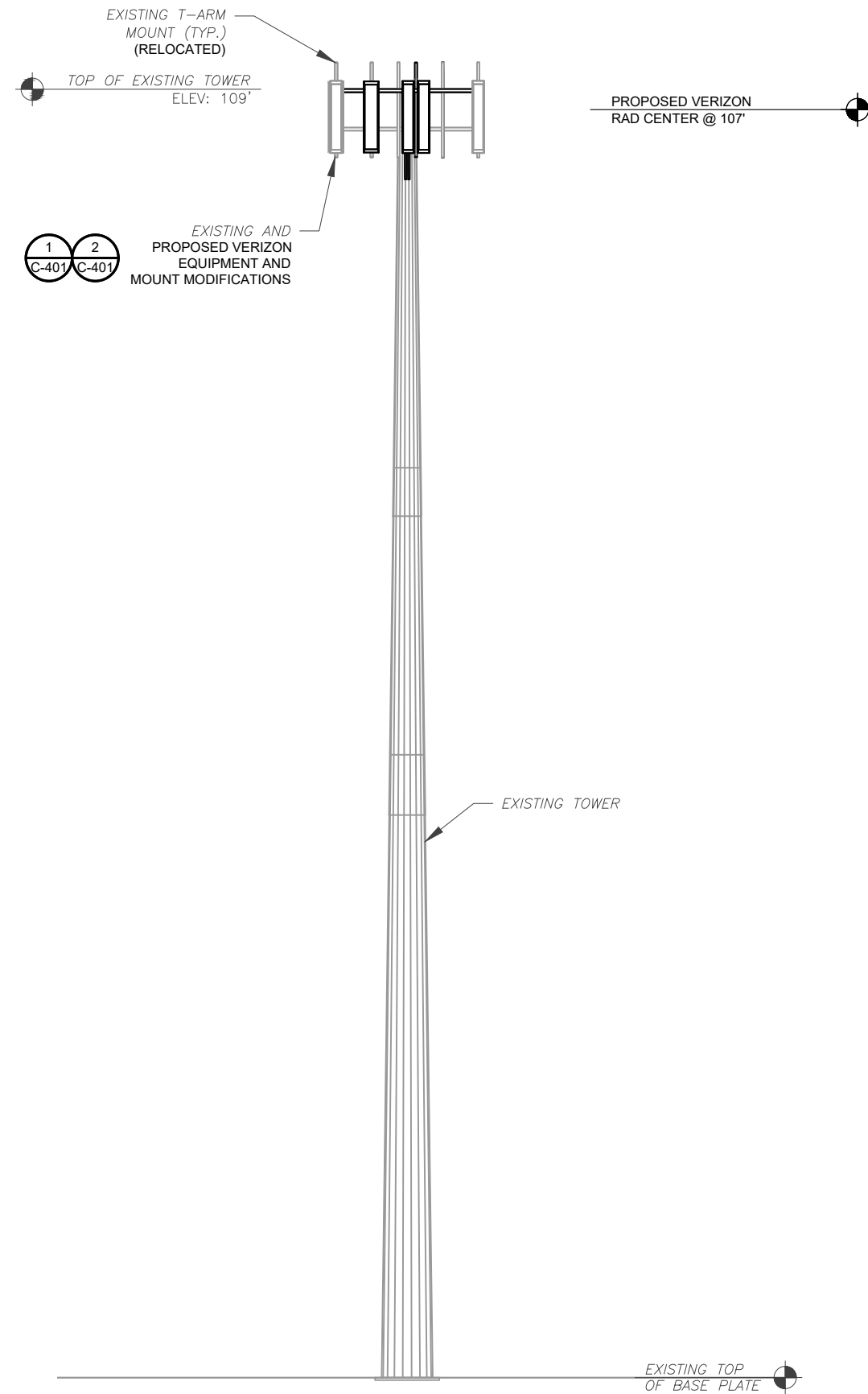


DATE DRAWN:	10/26/21
ATC JOB NO:	13713882_D1
CUSTOMER ID:	BLOOMFIELD BLUE HILLS CT
CUSTOMER #:	468920

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY GPD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION, DATED 8/9/2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

TOWER NOTE:

- 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.
- 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.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

1 TOWER ELEVATION
SCALE: N.T.S.



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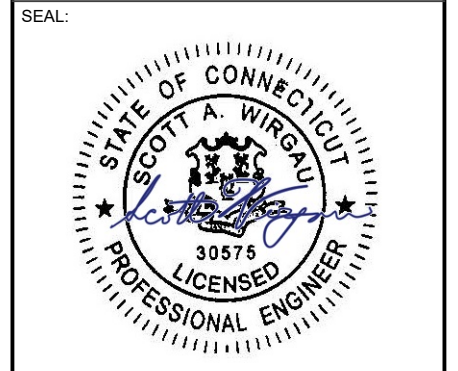
REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JW	10/26/21

ATC SITE NUMBER:
411187

ATC SITE NAME:
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VERIZON SITE NAME:
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SITE ADDRESS:
811 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002



DATE DRAWN:	10/26/21
ATC JOB NO:	13713882_D1
CUSTOMER ID:	BLOOMFIELD BLUE HILLS CT
CUSTOMER #:	468920

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JW	10/26/21

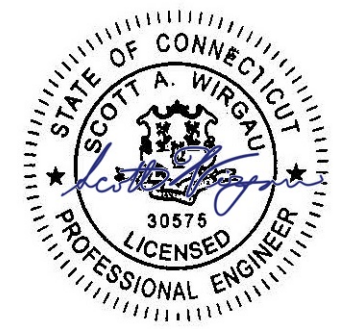
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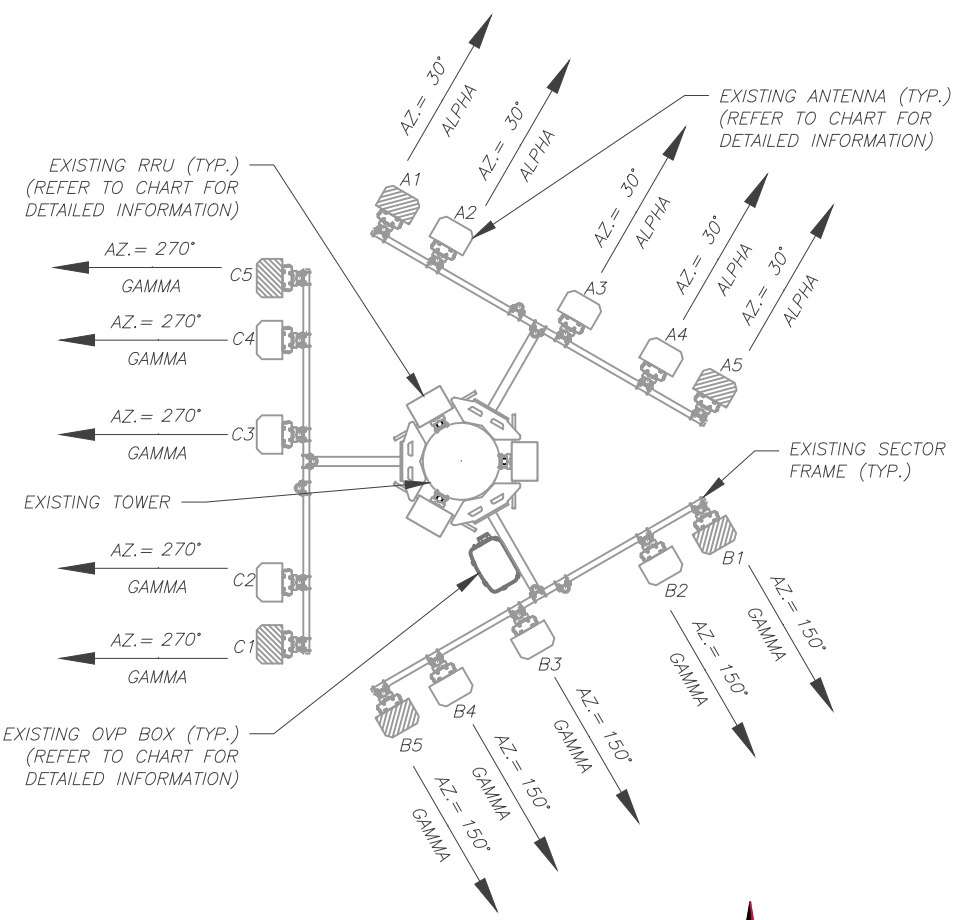
DATE DRAWN:	10/26/21
ATC JOB NO:	13713882_D1
CUSTOMER ID:	BLOOMFIELD BLUE HILLS CT
CUSTOMER #:	468920

ANTENNA INFORMATION & SCHEDULE

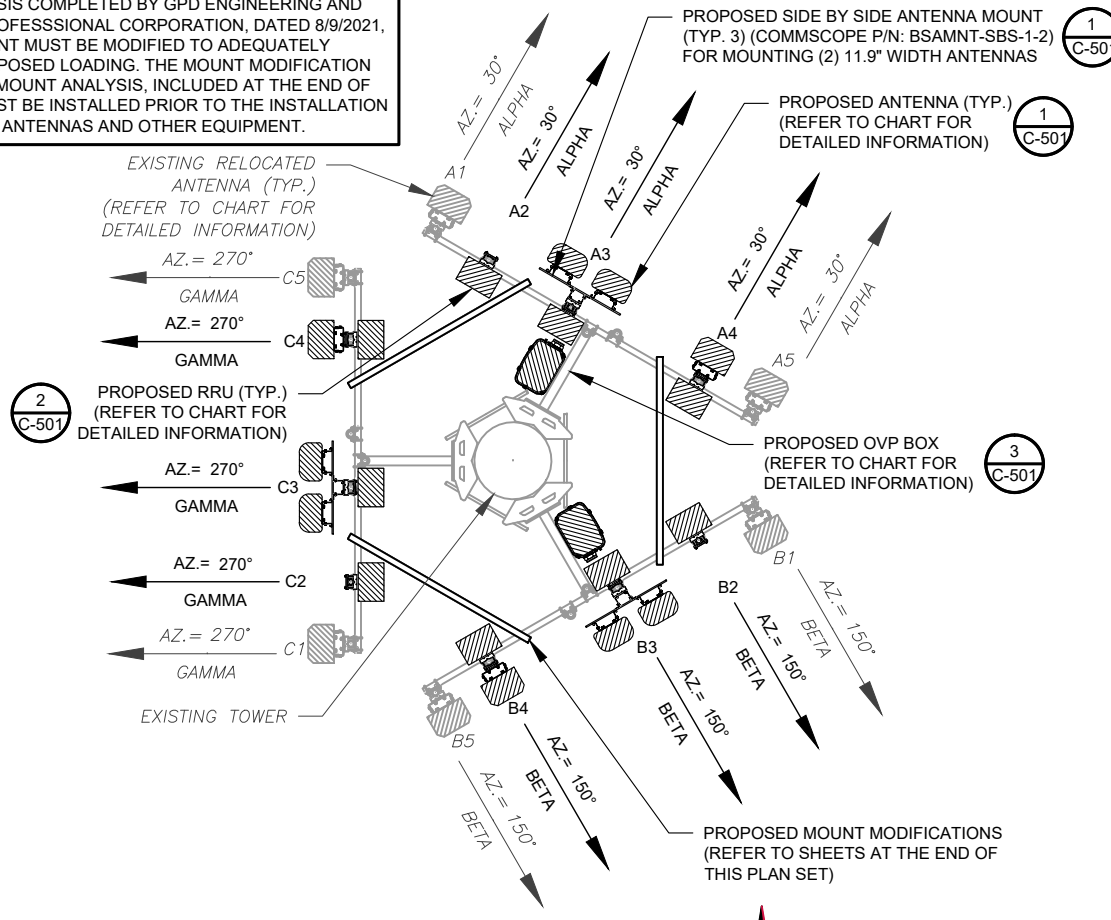
SHEET NUMBER:
C-401

REVISION:
0

PER MOUNT ANALYSIS COMPLETED BY GPD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION, DATED 8/9/2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



1 EXISTING ANTENNA PLAN
SCALE: N.T.S.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE										
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY			
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH-ELEC TILT (DEG)	STATUS	ADDL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA		30		A1	LPA-80063/6CF_5	CDMA 850	0-0	RMN	UHBA B13	RMV
				A2	SBNHH-1D65B	LTE 700/AWS	0-0	RMV	NOKIA	RMV
				A3	LNx-6514DS-A1M		0-0	RMV	-	-
				A4	SBNHH-1D65B	LTE 700/AWS	0-0	RMV	-	-
				A5	LPA-80063/6CF_5	CDMA 850	0-0	RMN	-	-
BETA	107.0	150		B1	LPA-80063/6CF_5	CDMA 850	0-0	RMN	UHBA B13	RMV
				B2	SBNHH-1D65B	LTE 700/AWS	0-0	RMV	NOKIA	RMV
				B3	LNx-6514DS-A1M		0-0	RMV	-	-
				B4	SBNHH-1D65B	LTE 700/AWS	0-0	RMV	-	-
				B5	LPA-80063/6CF_5	CDMA 850	0-0	RMN	-	-
GAMMA		270		C1	LPA-80063/6CF_5	CDMA 850	0-0	RMN	UHBA B13	RMV
				C2	SBNHH-1D65B	LTE 700/AWS	0-0	RMV	NOKIA	RMV
				C3	LNx-6514DS-A1M		0-0	RMV	-	-
				C4	SBNHH-1D65B	LTE 700/AWS	0-0	RMV	-	-
				C5	LPA-80063/6CF_5	CDMA 850	0-0	RMN	-	-

EXISTING FIBER DIST/SQUID			EXISTING CABLING SUMMARY		
QTY	MODEL NUMBER	STATUS	QTY	LINE SIZE	STATUS
-	-	RMN	6	15/8" Coax	RMN
-	-	RMV	2	15/8" Hybriflex	RMV
1	DB-T1-6Z-8AB-OZ	RMV	3	15/8" Coax	RMV

NOTES

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
 RMN: TO REMAIN
 REL: TO BE RELOCATED
 ADD: TO BE ADDED

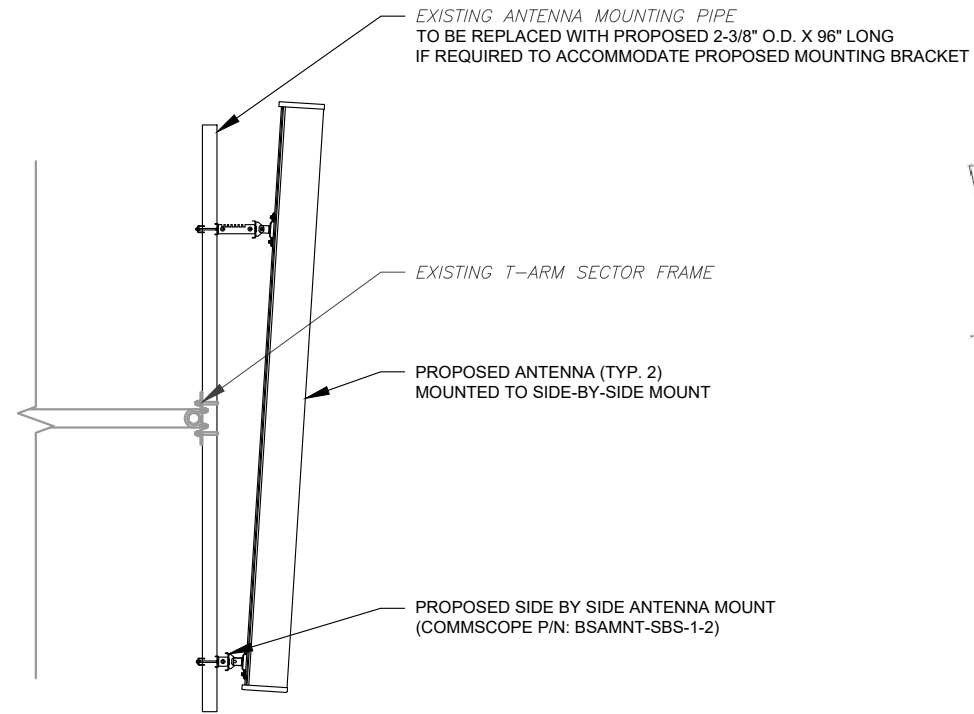
CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

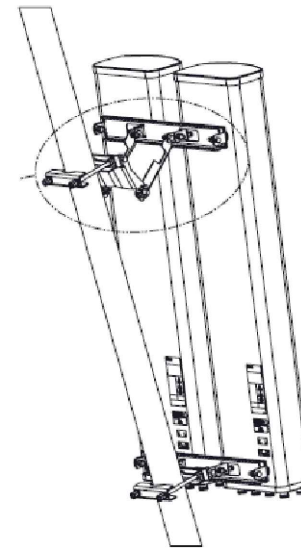
FINAL ANTENNA SCHEDULE										
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY			
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH-ELEC TILT (DEG)	STATUS	ADDL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA		30		A1	LPA-80063/6CF_5	850 CDMA	0-0	RMN	-	-
				A3	NHH-65B-R2B	700/1900 LTE & 850 5G	0-0	ADD	RF4439d-25A	ADD
				A3	NHHSS-65B-R2BTD	700/AWS/CBRS LTE & 850 5G	0-0	ADD	RF4440d-13A	ADD
				A4	MT6407-77A	CBRS 5G	0-0	ADD	RT4401-48A	ADD
				A5	LPA-80063/6CF_5	850 CDMA	0-0	RMN	-	-
BETA	107.0	150		B1	LPA-80063/6CF_5	850 CDMA	0-0	RMN	-	-
				B3	NHH-65B-R2B	700/1900 LTE & 850 5G	0-0	ADD	RF4439d-25A	ADD
				B3	NHHSS-65B-R2BTD	700/AWS/CBRS LTE & 850 5G	0-0	ADD	RF4440d-13A	ADD
				B4	MT6407-77A	CBRS 5G	0-0	ADD	RT4401-48A	ADD
				B5	LPA-80063/6CF_5	850 CDMA	0-0	RMN	-	-
GAMMA		270		C1	LPA-80063/6CF_5	850 CDMA	0-0	RMN	-	-
				C2	NHH-65B-R2B	700/1900 LTE & 850 5G	0-0	ADD	RF4439d-25A	ADD
				C3	NHHSS-65B-R2BTD	700/AWS/CBRS LTE & 850 5G	0-0	ADD	RF4440d-13A	ADD
				C4	MT6407-77A	CBRS 5G	0-0	ADD	RT4401-48A	ADD
				C5	LPA-80063/6CF_5	850 CDMA	0-0	RMN	-	-

FINAL FIBER DIST/SQUID			FINAL CABLING SUMMARY		
QTY	MODEL NUMBER	STATUS	QTY	LINE SIZE	STATUS
-	-	-	6	15/8" Coax	RMN
2	RRFDC-3315-PF-48	ADD	-	-	ADD

3 EQUIPMENT SCHEDULES



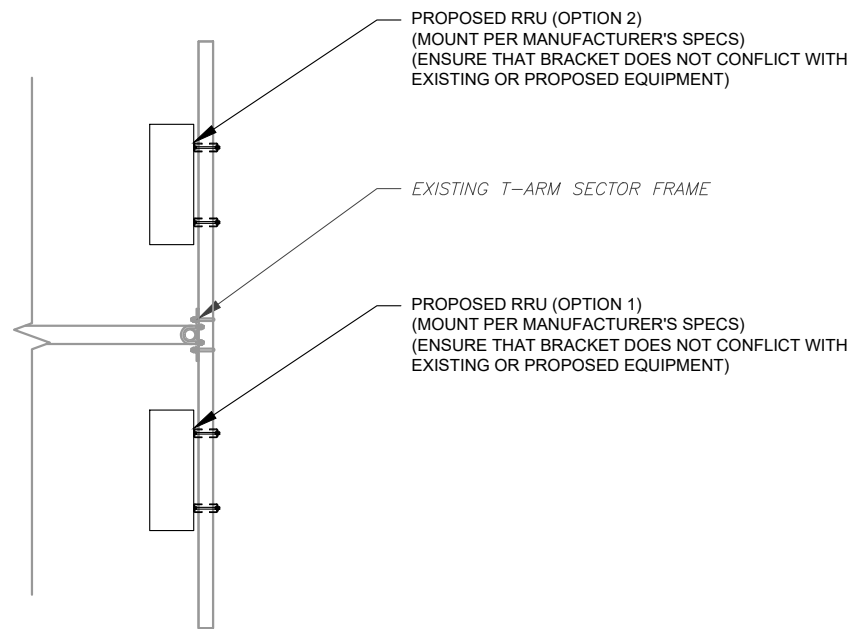
PROFILE VIEW



ISOMETRIC VIEW (BY MANUFACTURER)

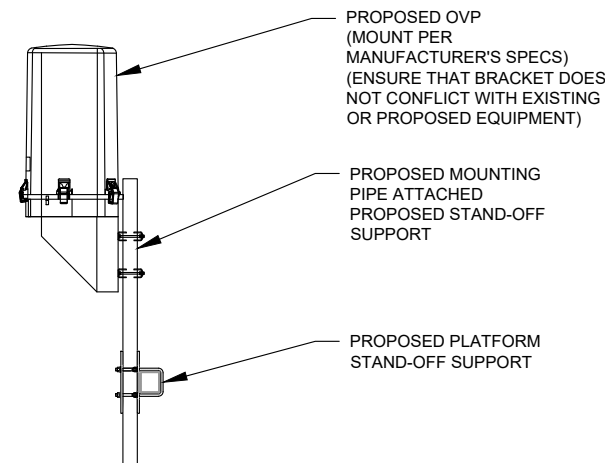
1 PROPOSED SIDE-BY-SIDE MOUNT

SCALE: NOT TO SCALE



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



3 PROPOSED OVP MOUNTING

SCALE: N.T.S.



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
COA: PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JW	10/26/21

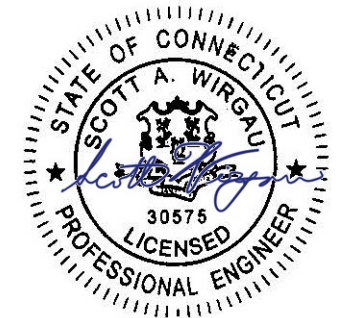
ATC SITE NUMBER:
411187

ATC SITE NAME:
HARTFORD NORTH 2 CT

VERIZON SITE NAME:
BLOOMFIELD BLUE HILLS CT

SITE ADDRESS:
811 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

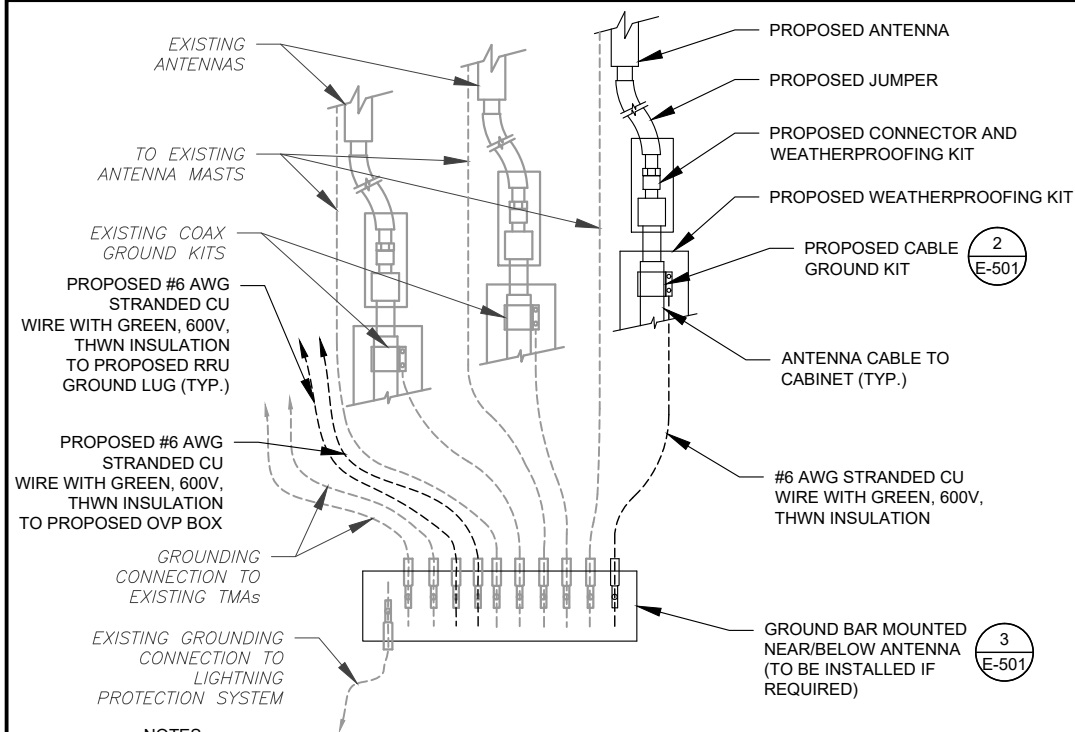
SEAL:



DATE DRAWN:	10/26/21
ATC JOB NO:	13713882_D1
CUSTOMER ID:	BLOOMFIELD BLUE HILLS CT
CUSTOMER #:	468920

**CONSTRUCTION
DETAILS**

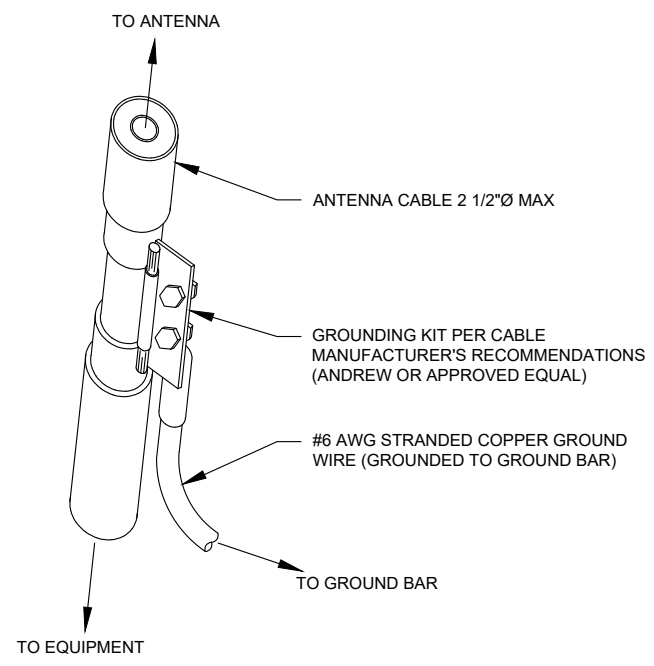
SHEET NUMBER:	REVISION:
C-501	0



NOTES:

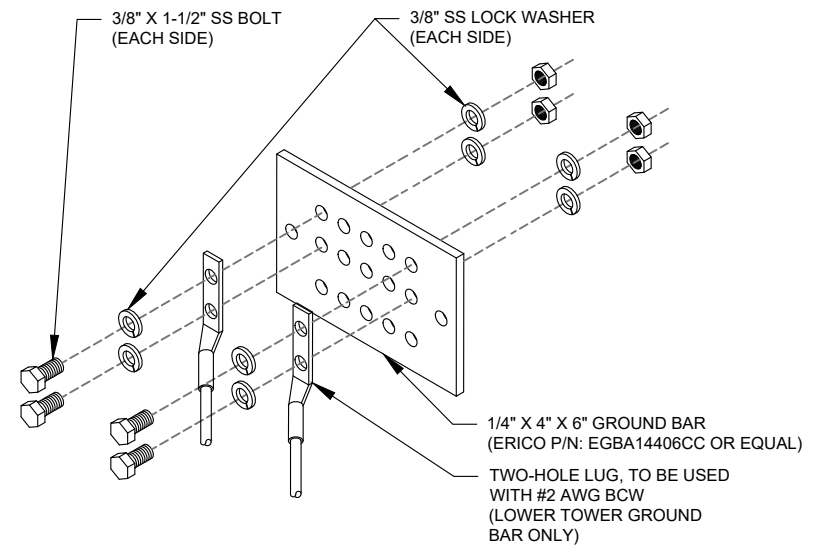
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON 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.

AMERICAN TOWER®
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 3500 REGENCY PARKWAY
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JW	10/26/21

ATC SITE NUMBER:
411187

ATC SITE NAME:
HARTFORD NORTH 2 CT

VERIZON SITE NAME:
BLOOMFIELD BLUE HILLS CT

SITE ADDRESS:
811 BLUE HILLS AVENUE
BLOOMFIELD, CT 06002

SEAL:

DATE DRAWN: 10/26/21
 ATC JOB NO: 13713882_D1
 CUSTOMER ID: BLOOMFIELD BLUE HILLS CT
 CUSTOMER #: 468920

GROUNDING DETAILS

SHEET NUMBER: **E-501** REVISION: **0**

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BLOOMFIELD BLUE HILLS CT

SITE #: 468920

SMART TOOL PROJECT #: 10090849



MOUNT INFORMATION:	
MOUNT TYPE:	12'-0" T-ARM
SITE LOCATION:	LAT.: 41.809683° LONG.: -72.696597° STREET ADDRESS: 811 BLUE HILLS AVE CITY, STATE ZIP: BLOOMFIELD, CT 06002 COUNTY: HARTFORD
TOWER OWNER:	ATC
TOWER SITE NUMBER:	411187

CODE COMPLIANCE:	
GOVERNING CODES:	TIA-222-H
WIND SPEEDS:	117 MPH 3-SECOND GUST 50 MPH 3-SECOND GUST (W/ ICE)
ICE THICKNESS:	1.5"
RISK CATEGORY:	II
EXPOSURE CATEGORY:	C
TOPO CATEGORY:	1
SEISMIC CRITERIA:	
SITE CLASS:	D
RESPONSE COEFFICIENT (R):	2
1-SECOND SPECTRAL RESPONSE ACCELERATION (S ₁):	0.055
SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S ₀):	0.184

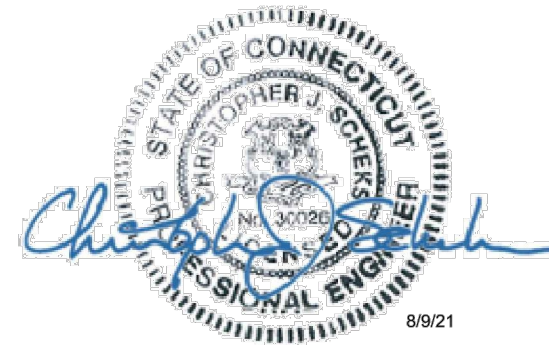
PROJECT CONTACTS:
MASER CONSULTING CONTACT: PETER ALBANO PETER.ALBANO@COLLIERSENGINEERING.COM (856) 371-9457 PROJECT #: 21781043
ENGINEER CONTACT: GPD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 (330)572-2100 FOR QUESTIONS PLEASE EMAIL: GPDMODS@GPDGROUP.COM

SHEET INDEX:
T-01: TITLE SHEET
N-01: PROJECT NOTES & INSPECTION CHECKLIST
S-01: BILL OF MATERIALS
S-02: CLIMBING FACILITY DETAIL
S-03: MODIFICATION SCHEDULE & DETAILS
S-04 - S-08: DETAILS/PARTS
S-09: MOUNT GEOMETRY VERIFICATION
P-01: MOUNT PHOTOS

CONTRACTOR PMI REQUIREMENTS:	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10090849
VZW LOCATION CODE (PSLC):	468920
FUZE ID:	16502013

REFERENCED DOCUMENTS:	
PASSING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #:	10090849
GPD PROJECT #:	2021740.468920.02
ANALYSIS DATE:	8/9/2021

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.



GPD Engineering and Architecture
Professional Corporation
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2102

DESIGN DRAWINGS
PREPARED FOR:
verizon
BLOOMFIELD BLUE HILLS CT
SITE #: 468920
SMART TOOL PROJECT #: 10090849

REV	DATE	DESCRIPTION
0	8/9/21	INITIAL RELEASE

BLOOMFIELD BLUE HILLS CT
811 BLUE HILLS AVE
BLOOMFIELD, CT 06002

TITLE SHEET

ISSUED FOR:	
PERMIT	8/9/2021
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
EAN	EAN
PROJECT MANAGER	APPROVED BY
DP	CJS

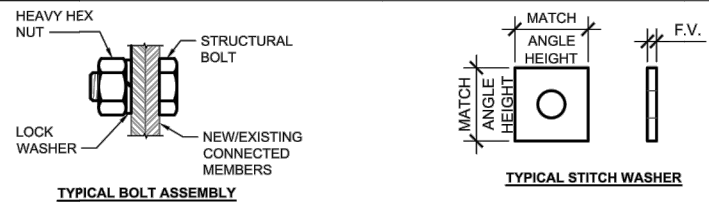
JOB NO.
2021740.468920.02

T-01

REQUIRED	REPORT ITEM	BRIEF DESCRIPTION
PRE-CONSTRUCTION		
X	PACKING SLIPS	ANY RECEIPT OF PURCHASE FOR THE MODIFICATION MATERIAL IS ACCEPTABLE.
X	CERTIFICATE OF CONFORMANCE	ALL PRE-ENGINEERED KITS, PARTS, AND/OR ASSEMBLIES PURCHASED FROM REPUTABLE SUPPLIERS SHALL HAVE A SITE SPECIFIC CERTIFICATE OF CONFORMANCE PROVIDED TO CONFIRM ACCEPTABILITY.
X	MATERIAL TEST REPORT (CUSTOM ORDERED OR FABRICATED HARDWARE ONLY)	ALL HARDWARE NOT SPECIFICALLY PROVIDED AS A PRE-ENGINEERED KIT, PART, AND/OR ASSEMBLY SHALL REQUIRE MTR'S TO VERIFY ACCEPTABILITY.
X	EXISTING MOUNT(S)	PHOTOS OF ALL SECTORS (WHERE APPLICABLE) PRIOR TO MODIFICATIONS.
X	HARDWARE PRIOR TO INSTALLATION	PHOTOS OF ALL HARDWARE BEFORE BEING INSTALLED ON THE MOUNT(S).
X	NDT - ALL FULL PENETRATION OR WELDS > 5/16"	
X	FABRICATOR CERTIFIED WELD INSPECTION	AWS STAMPED REPORT REQUIRED. WELDING REQUIREMENTS NOT APPLICABLE FOR PRE-ENGINEERED KITS, PARTS OR ASSEMBLIES FROM REPUTABLE SUPPLIERS.
X	WELDER'S CERTIFICATIONS	

POST-CONSTRUCTION		
X	ON SITE COLD GALVANIZING VERIFICATION (IF APPLICABLE. SEE STRUCTURAL STEEL NOTE #2)	ANY DAMAGE TO THE TOWER SHALL BE REPAIRED IN ACCORDANCE WITH STRUCTURAL STEEL NOTE #2.
X	GC AS-BUILT DRAWINGS	ALL DEVIATIONS TO THE DRAWINGS THAT WERE FOUND MUST BE CLEARLY MARKED AND APPROVED BY THE EOR.
X	MEMBER SIZES	NEW MEMBERS SHALL BE VERIFIED WITH A TAPE MEASURE, CALIPERS, THICKNESS GAUGE, OR OTHER STANDARD INDUSTRY EQUIPMENT.
X	CONNECTION HARDWARE	BOLT SIZE (VIA CALIPERS), FIT-UP, LOCKING MECHANISMS, AND TIGHTNESS SHALL ALL BE VERIFIED AND DOCUMENTED.
X	CRITICAL DIMENSIONS	ALL DIMENSIONS SPECIFICALLY CALLED OUT IN THE DRAWING PACKAGE SHALL BE VERIFIED WITH A TAPE MEASURE. THIS INCLUDES MEMBER LENGTHS, HORIZONTAL AND/OR VERTICAL OFFSETS, SPACING REQUIREMENTS, ETC.
X	FINAL INSTALLED CONFIGURATION	THE COMPLETE MODIFIED CONDITION SHALL BE INSPECTED TO ENSURE FULL CONFORMANCE WITH THE DESIGN DRAWINGS.

BOLTING DETAILS

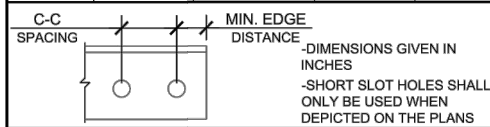


BOLT SCHEDULE				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	C-C SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/8	1-1/8x1-5/16	1-3/4	3

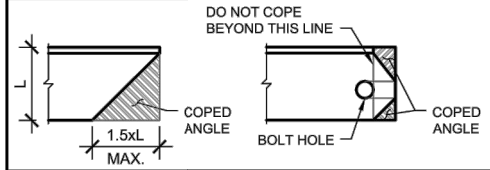
WORKABLE GAGES						
LEG	4	3-1/2	3	2-1/2	2	1-3/4
G	2-1/2	2	1-3/4	1-3/8	1-1/8	1

Diagram showing a gage with dimensions: 1/4" and 1/8".

NOTES:
 1. DIMENSIONS GIVEN IN INCHES
 2. -MATCH EXISTING WHEN APPLICABLE



ALLOWABLE ANGLE COPE



NOTES:
 1. ALL DIMENSIONS REPRESENTED IN THESE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
 2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
 3. AS AN ALTERNATIVE TO USING A LOCK WASHER PAL-NUTS CAN BE INSTALLED ABOVE THE HEX NUT. ALL BOLTS MUST HAVE LOCKING DEVICES INSTALLED AS PART OF THE ASSEMBLY.
 4. ADDITIONAL HARDENED FLAT WASHERS MAY BE REQUIRED IN CASES WHERE OVERSIZED OR SLOTTED HOLES ARE PRESENT. EXISTING CONDITIONS SHALL BE APPROVED BY THE EOR.

GENERAL NOTES

- THIS DESIGN IS IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222, AWS, ANSI TIA-322, AND AISC. MATERIALS, FABRICATION, INSTALLATION, AND ALL OTHER SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
- THIS DESIGN ASSUMES THE TOWER AND MOUNTS HAVE BEEN WELL MAINTAINED, ARE IN GOOD CONDITION, AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBERS, LOOSE BOLTS, CRACKED WELDS AND OTHER MEMBER DEFECTS HAVE NOT BEEN CONSIDERED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED TO BE LEVEL. THIS DESIGN IS BEING PROVIDED WITHOUT THE BENEFIT OF A CONDITION ASSESSMENT BY GPD.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING; ANY PROBLEMS WITH ACCESS, INTERFERENCE, ETC. SHALL BE RESOLVED PRIOR TO MOBILIZATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND NOTE ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS OR THAT INTERFERE WITH THE CONTINUOUS INSTALLATION OF THE MODIFICATIONS. CONTRACTOR SHALL NOTE ALL ATTACHMENT POINTS, ANTENNAS, MOUNTS, COAX, LIGHTING CLIMBING SUPPORTS, STEP BOLTS, PORT HOLES, AND ANY OTHER APPURTENANCES IN THE REGION OF THE MODIFICATIONS. GPD SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF ANY DEVIATION PRIOR TO ORDERING MATERIAL.
- ALL MATERIAL SPECIFIED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZES AND/OR STRENGTHS MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR DETERMINING IF SUBSTITUTE IS SUITABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MODIFICATION INSPECTOR AT THE TIME OF AWARD TO COORDINATE AN INSPECTION SCHEDULE AND ENSURE PROPER DOCUMENTATION IS RETAINED THROUGHOUT THE PROJECT. REFER TO THE MODIFICATION INSPECTION TABLES ON THIS SHEET.
- INSTALLATION OF THE PROPOSED LOADING IS BY OTHERS AND IS BEYOND THE SCOPE OF THESE DRAWINGS.
- ALL CONTRACTORS AND LOWER TIER CONTRACTORS MUST ACKNOWLEDGE IN WRITING TO TOWER OWNER AND GPD THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW TOWER OWNER STANDARDS OF PRACTICE, CONSTRUCTION GUIDELINES, ALL SITE AND TOWER SAFETY PROCEDURES, ALL PRODUCT LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, AND PROPOSED MODIFICATIONS DESCRIBED. RECEIPT OF ACKNOWLEDGMENT MUST OCCUR PRIOR TO BEGINNING CONSTRUCTION OR CLIMBING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THIS DOCUMENTATION FOR TOWER OWNER AND GPD ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM LOWER TIER SUBCONTRACTORS (ON SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO TOWER OWNER AND GPD.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE TOWER OWNER AND ENGINEER.
- THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THEIR WORK FORCE, THE WORK AREA, ADJACENT AREA, AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. THE CONTRACTOR SHALL REVIEW AND ABIDE BY ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES. ALL TOWER WORKERS SHALL UTILIZE APPROPRIATE FALL PROTECTION AND SAFETY EQUIPMENT THAT IS UP-TO-DATE AND INSPECTED PER OSHA AND INDUSTRY GUIDELINES. ALL WORKERS SHALL BE TRAINED AND MONITORED TO ENSURE SAFE WORKING PRACTICES ARE MAINTAINED.
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING ALL COAX, T-BRACKETS, ANTENNA MOUNTS, AND ANY OTHER APPURTENANCE THAT MAY INTERFERE WITH THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACED AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATIONS TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOMIZATIONS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE ENGINEER PRIOR TO REMOVING SUCH ATTACHMENTS. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE TOWER OWNER IN WRITING.
- CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURAL INTEGRITY OF THIS DESIGN EXTENDS TO THE COMPLETE CONDITION ONLY. THE CONTRACTOR MUST BE COGNIZANT THAT THE REMOVAL OF ANY STRUCTURAL COMPONENT HAS THE POTENTIAL TO CAUSE THE PARTIAL OR COMPLETE COLLAPSE OF THE STRUCTURE. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO ENSURE THE STRUCTURAL INTEGRITY, INCLUDING, BUT NOT LIMITED TO, ENGINEERING ASSESSMENT OF CONSTRUCTION STRESSES WITH INSTALLATION MAXIMUM WIND SPEED AND/OR TEMPORARY BRACING AND SHORING.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 10-MPH). ALL TEMPORARY BRACING AND TEMPORARY SUPPORTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY IF THIS STRUCTURE IS AN FM TOWER AND TAKE NECESSARY ACTIONS TO PROVIDE SAFE WORKING CONDITIONS INCLUDING, BUT NOT LIMITED TO HAVING FM SIGNAL TURNED OFF. CONTRACTOR SHALL HAVE PROPER RADMAN FOR NOTIFICATION OF EXCESSIVE RF EXPOSURE FOR ALL INDIVIDUALS WORKING ON SITE IF FM ANTENNAS ARE PRESENT.
- ALL MANUFACTURERS HARDWARE AND ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. DEVIATION FROM THE INSTRUCTIONS IS UNACCEPTABLE AND REQUIRES WRITTEN APPROVAL FROM ENGINEER.
- DO NOT SCALE DRAWINGS.
- THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL ASSOCIATED HARDWARE SHALL NOT BE IMPEDED OR MODIFIED WITHOUT THE WRITTEN CONSENT OF GPD.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.

STRUCTURAL STEEL NOTES

- ALL NEW STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOT-DIPPED GALVANIZING IS NOT PERMITTED MAGNI 565 COATING (OR ENGINEER APPROVED EQUIVALENT) SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL EXPOSED STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, DAMAGED MEMBERS, FIELD WELDS, FIELD CUT MEMBERS, FIELD DRILLED HOLES, AND SHAFT INTERIORS (WHERE APPLICABLE), SHALL BE SOLVENT CLEANED AND HAVE TWO (2) COATS OF BRUSHED ON ZRC ZINC RICH COLD GALVANIZING PAINT APPLIED AND SHALL BE PAINTED TO MATCH THE TOWER FINISH (WHERE APPLICABLE). PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE MODIFICATION INSPECTOR.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE LISTED REQUIREMENTS U.N.O. IN THESE DRAWINGS:
 - STEEL ANGLE: ASTM A36 (Fy=36 KSI)
 - PIPE (ROUND): ASTM A53 GRADE B (Fy=35 KSI)
 - BOLTS: ASTM A325 TYPE 1
 - THREADED RODS: ASTM A307 GRADE A
 - U-BOLTS: ASTM A307 GRADE A
 - NUTS: ASTM A563 GRADE DH
 - WASHERS (AS REQUIRED): ASTM F436 TYPE 1
 - LOCKING DEVICES: PAL-NUT OR SPLIT WASHER
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222 REQUIREMENTS.
- ALL BOLTS, INCLUDING U-BOLTS, SHALL BE TIGHTENED IN ACCORDANCE WITH AISC "SNUG TIGHT" REQUIREMENTS, U.N.O.
- ALL U-BOLTS SPECIFIED SHALL MEET THE REQUIREMENTS OF ASME B18.31.5-2011 BENT BOLTS.
- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORK LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
- WELDING OF ANY KIND IS NOT PERMITTED ON SITE UNLESS SPECIFIED WITHIN THESE DRAWINGS. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING OR OPEN FLAME IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- FOR ALL SHOP WELDING, USE E70XX ELECTRODES FOR SMAW PROCESS AND E7XT-XX ELECTRODES FOR FCAW PROCESS, UNO.

MODIFICATION INSPECTION NOTES

GENERAL

- THE MI IS AN ON-SITE AND HANDS-ON INSPECTION OF THE MODIFICATIONS INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS AND INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI IS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION DRAWINGS; IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS; AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
- NO DOCUMENT, CODE, OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE. ACCORDINGLY, THE CHECKLIST IS INTENDED TO SERVE AS A SOURCE OF GUIDING PRINCIPLES IN ESTABLISHING GUIDELINES FOR THE MODIFICATION INSPECTION.
- THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE DESIGN. THE MI INSPECTOR SHALL INSPECT AND NOTE CONFORMANCE/NON-CONFORMANCE AND PROVIDE TO THE TOWER/STRUCTURE OWNER AND EOR FOR EVALUATION.
- TO ENSURE THAT THE REQUIREMENTS OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. CONTACT LISTED ON THE TITLE SHEET SHALL BE CONTACTED IF SPECIFIC INSPECTOR CONTACT INFORMATION IS NOT KNOWN.

FAILING INSPECTION REQUIREMENTS

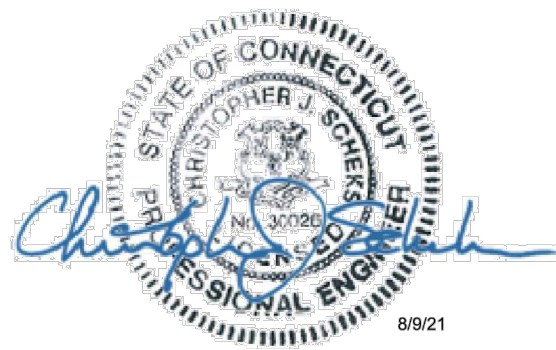
- IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ("FAILED MODIFICATION INSPECTION") THE GC SHALL WORK WITH THE MI INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL MODIFICATION DRAWINGS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION.
 - OR, WITH TOWER OWNER APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

SERVICE LEVEL COMMITMENT

- THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:
 - THE GC SHALL PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY TO THE MI TO BE CONDUCTED.
 - THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY MINOR DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

REQUIRED PHOTOS

- BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:
 - PRE-CONSTRUCTION GENERAL SITE CONDITION
 - PHOTOGRAPHS DURING THE MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DETAILS OF THE MODIFICATIONS.
- PHOTOS OF ELEVATED MODIFICATION TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



8/9/21



REV.	DATE	DESCRIPTION
0	8/9/21	INITIAL RELEASE

BLOOMFIELD BLUE HILLS CT
 811 BLUE HILLS AVE
 BLOOMFIELD, CT 06002

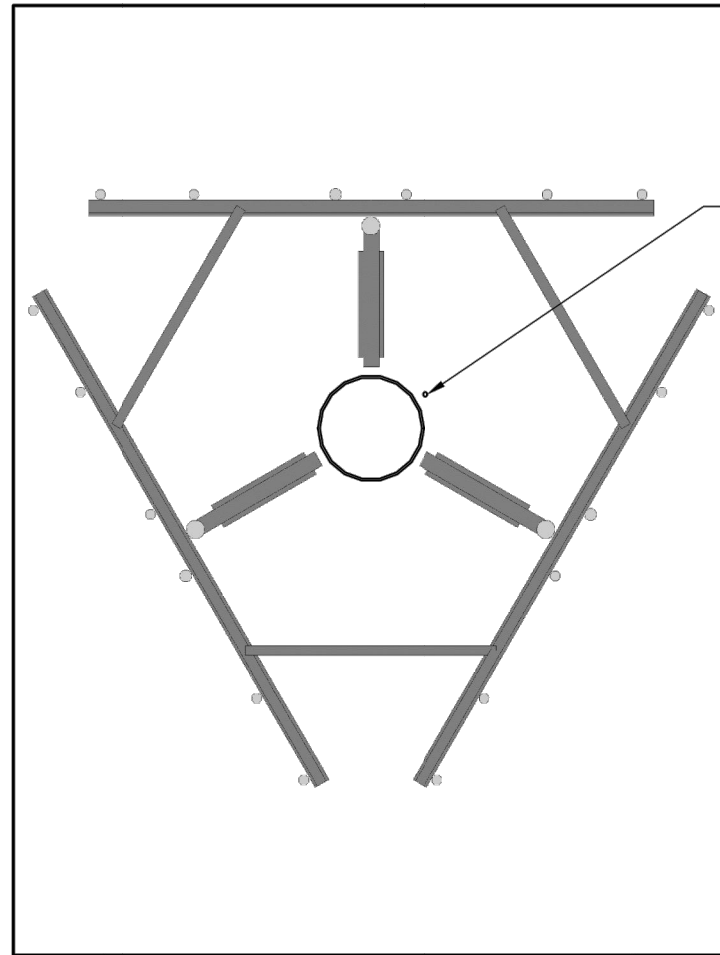
PROJECT NOTES
 & INSPECTION CHECKLIST

ISSUED FOR:	
PERMIT	8/9/2021
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
EAN	EAN
PROJECT MANAGER	APPROVED BY
DP	CJS

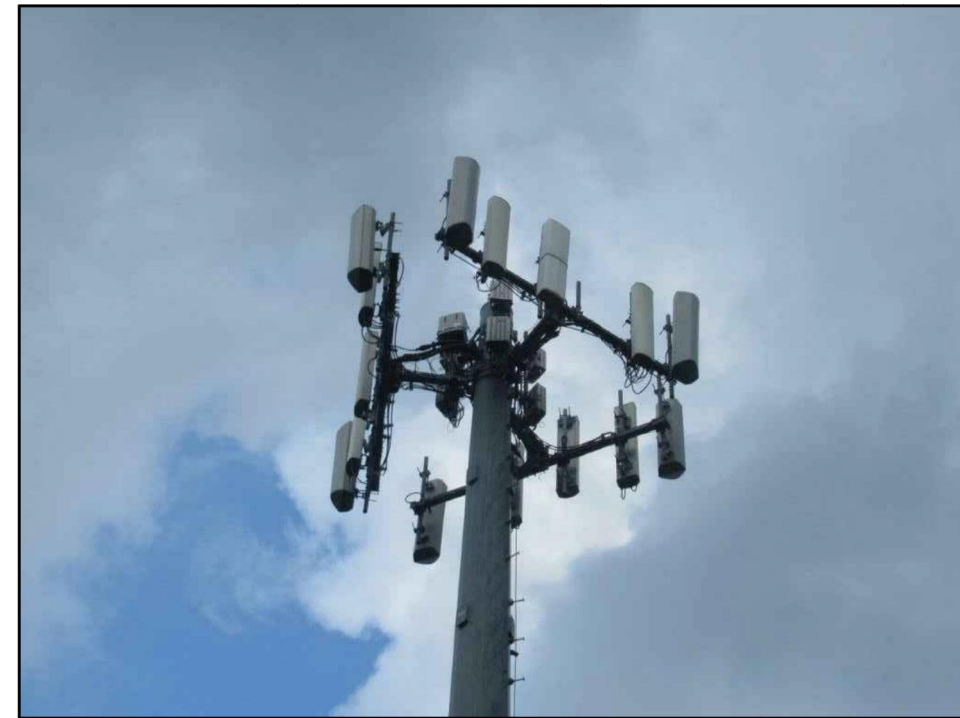
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CLIMBING FACILITY (F.V.
LOCATION, SEE NOTE #3 ON THIS
SHEET FOR MORE INFORMATION)

CLIMBING FACILITY LOCATION



CLIMBING FACILITY PHOTO

NOTES:

1. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

REV	DATE	DESCRIPTION
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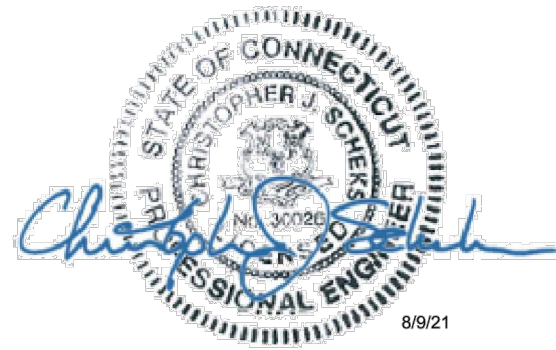
BLOOMFIELD BLUE HILLS CT
811 BLUE HILLS AVE
BLOOMFIELD, CT 06002

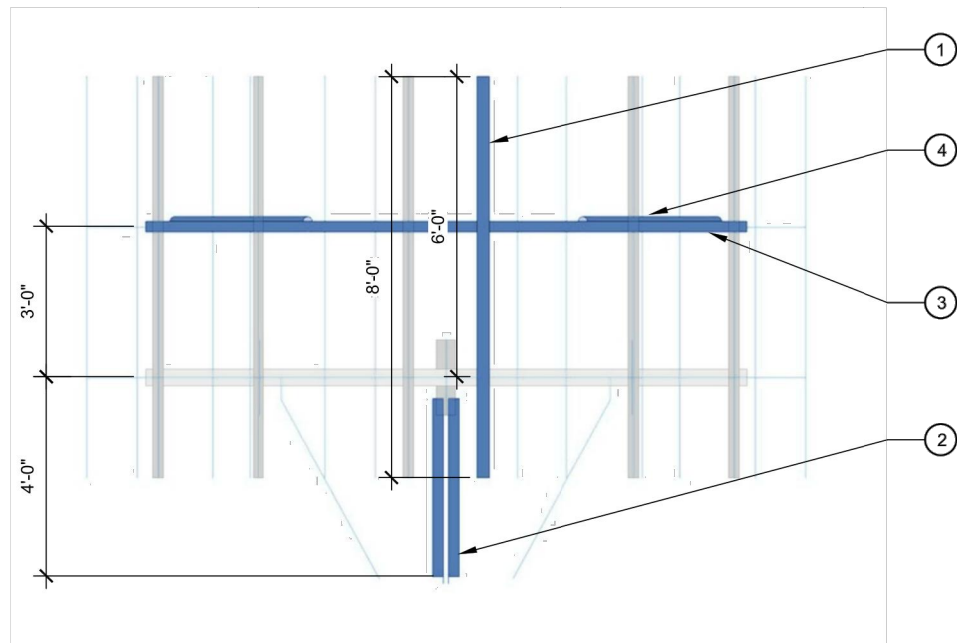
CLIMBING FACILITY DETAIL

ISSUED FOR:	
PERMIT	8/9/2021
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
EAN	EAN
PROJECT MANAGER	APPROVED BY
DP	CJS

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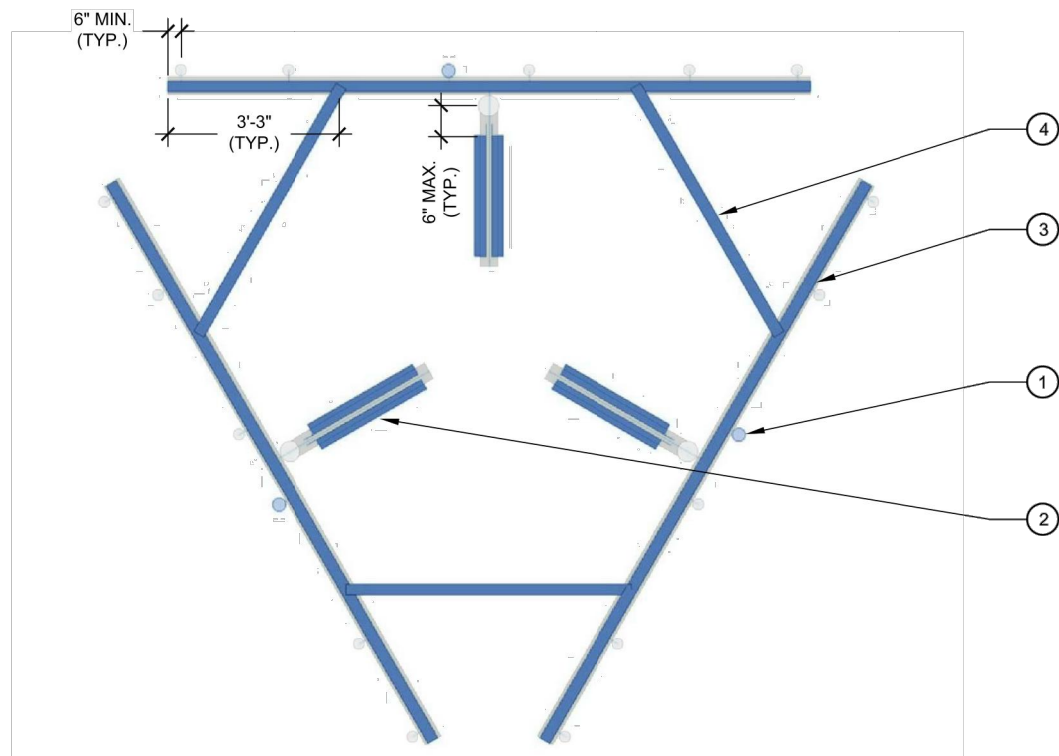


1 ELEVATION VIEW

S-03

NOTE:

1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR DETAIL CLARITY.
2. ALL FIELD CUT ANGLES AND DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COLD GALVANIZING PAINT.



2 PLAN VIEW

S-03

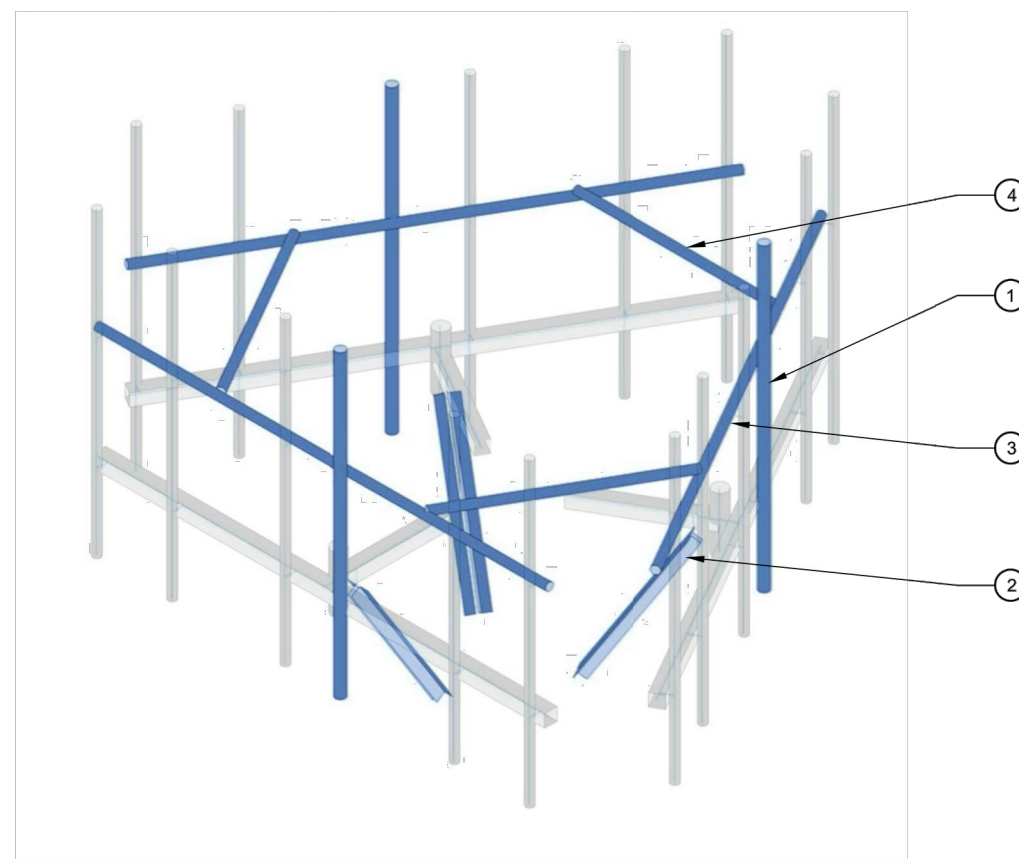
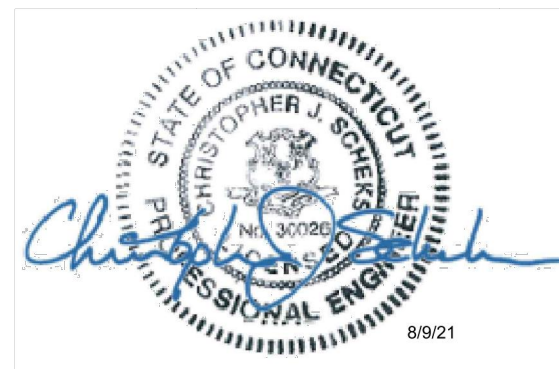
NOTE:

1. ALL FIELD CUT ANGLES AND DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COLD GALVANIZING PAINT.

MOUNT MODIFICATION SCHEDULE				
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	105'-0"±	3	REPLACEMENT MOUNT PIPE (P2.5 STD)	REPLACE EXISTING MOUNT PIPE WITH NEW LARGER DIAMETER MOUNT PIPE. CONNECT NEW MOUNT PIPE TO EXISTING FACE HORIZONTAL USING NEW CROSSOVER PLATE ASSEMBLIES (SITE PRO 1 P/N: SQCX4-K).
2		1	PROPOSED KICKER STYLE REINFORCEMENT KIT (PART #: VZSMART-PLK5)	INSTALL A NEW KICKER STYLE REINFORCEMENT KIT (VERIZON P/N: VZSMART-PLK5) CONNECTED TO TOWER SHAFT AND MOUNT STANDOFF. FIELD TRIM REINFORCEMENT ANGLES TO REQUIRED LENGTH AND DRILL NEW STANDARD SIZE HOLES FOR CONNECTION BOLTS. CONNECT NEW KICKER STYLE REINFORCEMENT KIT TO TOWER SHAFT USING NEW COLLAR MOUNT ASSEMBLY (VERIZON P/N: VZSMART-PLK7).
3		3	PROPOSED FACE HORIZONTAL (P2 STD)	INSTALL A NEW FACE HORIZONTAL CONNECTED TO MOUNT PIPES (F.V. REQUIRED LENGTH BEFORE ORDERING). CONNECT NEW FACE HORIZONTAL TO MOUNT PIPES USING NEW CROSSOVER PLATE ASSEMBLIES (VERIZON P/N: VZSMART-MSK1).
4		3	PROPOSED STABILIZER HORIZONTAL (P2 STD)	INSTALL A NEW STABILIZER HORIZONTAL CONNECTED TO NEW FACE HORIZONTALS (F.V. REQUIRED LENGTH BEFORE ORDERING). CONNECT NEW STABILIZER HORIZONTAL TO MOUNT PIPES USING NEW CROSSOVER ASSEMBLIES (SITE PRO 1 P/N: PUCK).

NOTES:

1. ANY SUBSTITUTION OF PARTS SPECIFIED IN THIS DESIGN PACKAGE SHALL REQUIRE ENGINEER APPROVAL PRIOR TO FABRICATION.
2. ALL MATERIAL REMOVED FROM MOUNT SHALL BE DISPOSED OF BY CONTRACTOR OFF SITE.
3. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.



3 ISOMETRIC VIEW

S-03

NOTE:

1. ALL FIELD CUT ANGLES AND DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COLD GALVANIZING PAINT.

GPD Engineering and Architecture
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DESIGN DRAWINGS PREPARED FOR:

verizon

BLOOMFIELD BLUE HILLS CT
SITE # 468920
SMART TOOL PROJECT #: 1008949

REV.	DATE	DESCRIPTION
0	8/9/21	INITIAL RELEASE

BLOOMFIELD BLUE HILLS CT
811 BLUE HILLS AVE
BLOOMFIELD, CT 06002

MODIFICATION SCHEDULE & DETAILS

ISSUED FOR:	
PERMIT	8/9/2021
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
EAN	EAN
PROJECT MANAGER	APPROVED BY
DP	CJS

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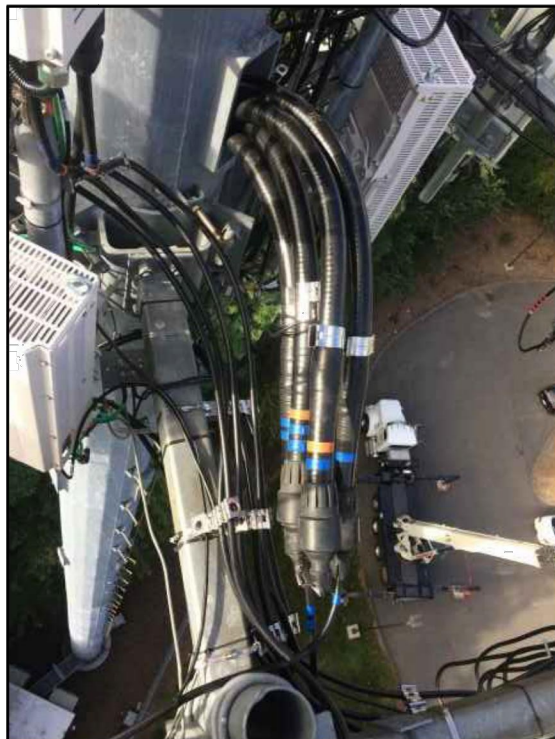
S-03



MOUNT PHOTO



MOUNT PHOTO



MOUNT PHOTO



MOUNT PHOTO

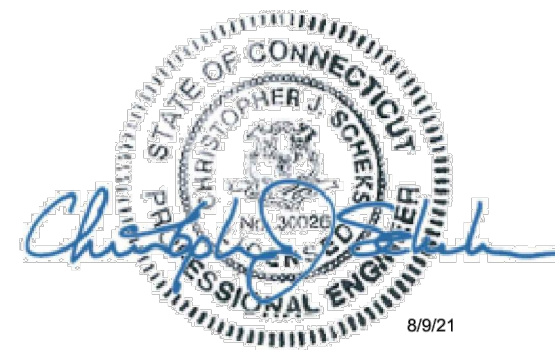
REV	DATE	DESCRIPTION
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MOUNT PHOTOS

ISSUED FOR:	
PERMIT	8/9/2021
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
EAN	EAN
PROJECT MANAGER	APPROVED BY
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8/9/21

P-01