

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

October 26, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
131 Gifford Lane (a/k/a 141 Gifford Lane), Bozrah, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Bozrah (“Town”) in February of 1999. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in December of 2000 (TS-VER-013-001117). A copy of the Town’s approval and the Council’s TS-VER-013-001117 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) SBNHH-1D65B antennas on Cellco’s existing modified antenna mounting structure. Cellco also intends to replace six (6) remote radio heads (“RRHs”) with six (6) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and specifications for the new antennas and RRHs are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 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 Bozrah’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
October 26, 2021
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The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna mounting structure.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, 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 installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative power density table for Cellco's modified facility are included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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

Melanie A. Bachman, Esq.
October 26, 2021
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Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Glenn Pianka, First Selectman for the Town of Bozrah
Katie DeCarli, Wetlands and Zoning Agent
NGA Capital LLC, the Property Owner
Alex Tyurin

ATTACHMENT 1

**TOWN OF BOZRAH
PLANNING & ZONING COMMISSION
TOWN HALL, 1 RIVER ROAD
BOZRAH, CONNECTICUT 06334**

Notice of Decision

At their regular meeting of February 11, 1999 the Bozrah Planning & Zoning Commission rendered the following decisions:

Fargo Family Partnership, Stockhouse Road. Subdivision creating two building lots on Stockhouse Road which is zoned for Industrial use. **ACTION - Approved.**

SBA Inc., Boca Raton, Florida. Application for a special permit to construct a 196' telecommunications tower at 131 Gifford Lane on property owned by John and Betty Orr. **ACTION - Approved with conditions.**

Town of Bozrah. Proposal to extend a 16" water main northeasterly along Stockhouse Road. This application is submitted in accordance with Section 8-24 of the Connecticut General Statutes as a municipal improvement. **ACTION - The Commission approved the plan and strongly supports the proposal to extend this water main along Stockhouse Road.**

Seymour Adelman, Chairman
Stephen Seder, Vice-Chairman
Planning & Zoning Commission

PLEASE PUBLISH THE "BULLETIN" "ONCE AS SOON AS POSSIBLE"

cc:: First Selectman
Applicant by "Certified Mail"
Bulletin Board
Town Clerk
File

Post-It® Fax Note	7671	Date	2/12/99	# of pages	1
To	R. Barber, First Selectman	From	R. Seder		
Co./Dept	Town of Bozrah	Co.	SCCOG		
Phone #		Phone #	889-2324		
Fax #	887-5449	Fax #	889-1222		

TRANSMISSION VERIFICATION REPORT

TIME : 02/12/1999 10:09
NAME : SCCOG
FAX : 860-889-1222
TEL : 860-889-2324

DATE, TIME	02/12 10:09
FAX NO./NAME	BULLETIN
DURATION	00:00:37
PAGE(S)	01
RESULT	OK
MODE	STANDARD
	ECM

TOWN OF BOZRAH
BOZRAH, CONNECTICUT

DRIVEWAY PERMIT

ISSUED TO SBA, Inc. DATE _____

ADDRESS 125 Shaw Street, New London CT 06320

FOR: driveway/access road to telecommunications site at 131 Gifford Lane

YOUR REQUEST TO CONSTRUCT A DRIVEWAY ON LOT NO. 119

MAP NO. 7 TO: Gifford Lane

WHICH IS TOWN PROPERTY, IS GRANTED SUBJECT TO THE FOLLOWING PROVISIONS:

1. THE DRIVEWAY SHALL BE CONSTRUCTED IN SUCH A MANNER THAT IT DOES NOT INTERFERE WITH THE EXISTING DRAINAGE, THE MOVEMENT OF TRAFFIC, OR THE REMOVAL OF SNOW FROM _____
2. THE DRIVEWAY SHALL BE CONSTRUCTED IN SUCH A MANNER THAT IT DOES NOT PERMIT THE RUNOFF OF WATER FROM _____ TO ENTER INTO THE PROPERTY OF THE OWNER THEREBY CREATING A NUISANCE TO THE TOWN AND THE OWNER.
3. THE OWNER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLAIMS OF DAMAGE RESULTING FROM THE CONSTRUCTION OF THE DRIVEWAY.
4. THE DRIVEWAY SHALL BE STABILIZED FOR A SUFFICIENT DISTANCE IN FROM TOWN PROPERTY TO PREVENT EROSION ON TO TOWN PROPERTY AND SHALL BE DESIGNED IN A MANNER TO CONFINE THE SURFACE WATER TO THE GUTTER AREAS AND PERMIT FREE FLOWAGE OF THE WATER IN THE WATERWAYS.
5. IF THE DRIVEWAY IS TO BE HARDTOPPED AT A LATER DATE ALLOWANCES MUST BE MADE FOR THE ADDITIONAL CHANGE OF GRADE WHERE THE DRIVEWAY CONNECTS WITH EXISTING WATERWAYS OR TRAVELLED PORTION OF THE TOWN ROAD.
6. THE DISTURBED AREAS WITHIN THE TOWN'S RIGHT-OF-WAY SHALL BE REPAIRED BY THE OWNER OR THE CONTRACTOR
7. WHERE EXISTING EXCAVATIONS OR FILLS WITHIN THE TOWN'S RIGHT-OF-WAY ENDANGER THE LIFE OF EXISTING TREES OR OTHER GROWTHS OR STONES EXIST AS OBSTACLES TO THE ACCESS OR EGRESS TO PROPERTY, SUCH OBSTACLES, TREES, OR GROWTHS, SHALL BE REMOVED AT THE OWNER'S EXPENSE.



APPLICANT

FIRST SELECTMAN

ITEM NO. 3 - TOWN MEETING - JUNE 2, 1987

RESOLVED: THAT EFFECTIVE JULY 1, 1987 ALL NEW DRIVEWAYS AND PARKING LOTS THAT ABUT TOWN OWNED ROADS SHALL BE PAVED. DRIVEWAYS SHALL BE PAVED A DISTANCE OF 15 FEET ALONG THE ROAD WITH CLASS 2 BITUMINOUS CONCRETE, 2 INCHES THICK. THE LENGTH OF THE PAVED DRIVEWAY WILL BE 15 FEET FROM THE EDGE OF THE TOWN ROAD. AFTER THE FIRST 5 FEET OF LENGTH THE PAVED AREA WILL NECK DOWN TO 10 FEET WIDE X 2 INCHES THICK FOR THE FINAL 10 FEET OF LENGTH. PARKING LOTS THAT ABUT ON TOWN OWNED ROADS WILL BE PAVED WITH CLASS 2 BITUMINOUS CONCRETE, 2 INCHES THICK X 15 FEET DEEP. THE WIDTH ALONG THE ROAD WILL BE DETERMINED BY THE AREA GRADED FOR VEHICLE USE.



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

December 19, 2000

Sandy M. Carter
Verizon Wireless
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492

RE: **TS-VER-013-001117** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 131 Gifford Lane, Bozrah, Connecticut.

Dear Ms. Carter:

At a public meeting held December 14, 2000, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated November 16, 2000.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/FOC/laf

c: Honorable Keith J. Robbins, First Selectman, Town of Bozrah
Ester McNany, SBA, Inc.
Julie M. Cashin, Esq., Hurwitz & Sagarin, LLC
J. Brendan Sharkey, VoiceStream Wireless Corporation

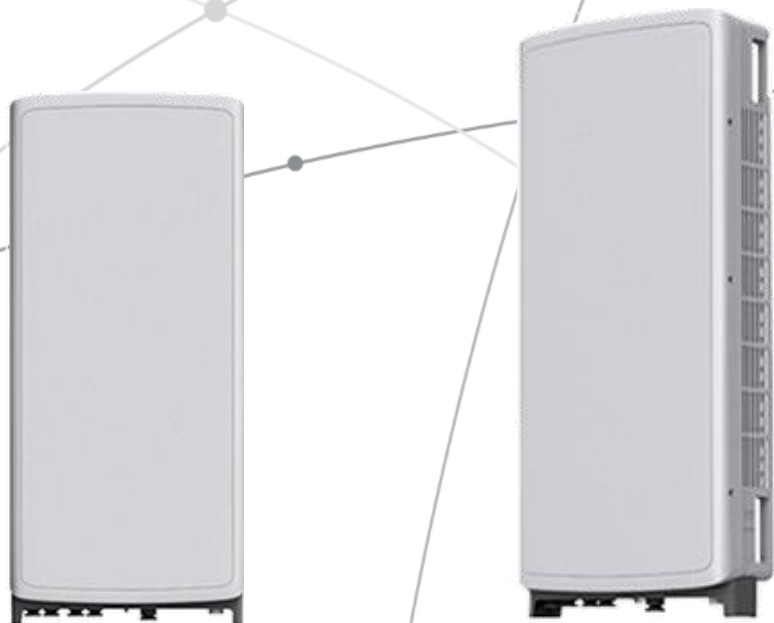
ATTACHMENT 2

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



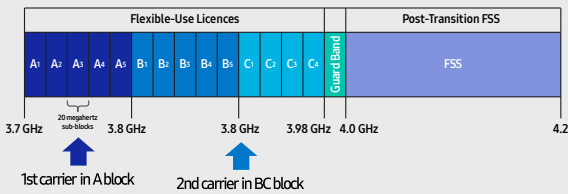
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

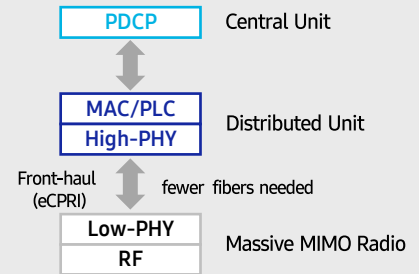
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

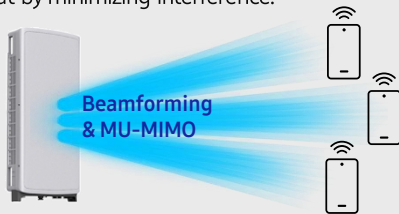


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

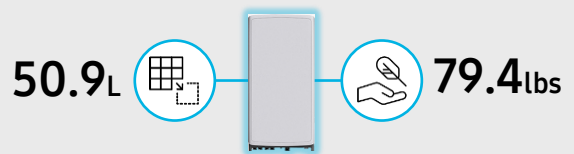
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

SBNHH-1D65B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

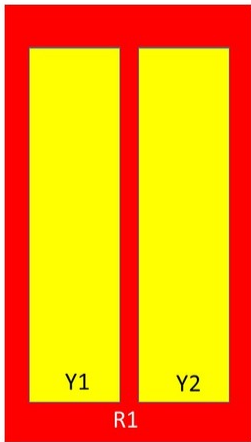
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (1) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

SBNHH-1D65B

Dimensions

Width	301 mm 11.85 in
Depth	180 mm 7.087 in
Length	1851 mm 72.874 in
Net Weight, without mounting kit	18.4 kg 40.565 lb

Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	ARxxxxxxxxxxxxxxxxxx.1
Y1	1695-2360	3-4	2	ARxxxxxxxxxxxxxxxxxx.2
Y2	1695-2360	5-6		

Left Bottom Right

(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.9	14.7	17.7	18.2	18.6	18.6
Beamwidth, Horizontal, degrees	68	65.5	69	66.2	63	58
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5	4.5
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	14	13	15	15	15	13
Front-to-Back Ratio at 180°,	27	29	28	28	28	27

SBNHH-1D65B

dB

Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	250

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.3	17.4	17.9	18.2	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.8	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 14.6 7° 14.6 14° 14.2	0° 14.5 7° 14.4 14° 13.6	0° 17.4 3° 17.5 7° 17.4	0° 17.8 3° 17.9 7° 17.9	0° 18.1 3° 18.3 7° 18.2	0° 18.2 3° 18.4 7° 18.4
Beamwidth, Horizontal Tolerance, degrees	±2.2	±3.4	±2	±4.6	±5.7	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±1	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	14	16	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	24.5	25.6	27	26	26	25.6
CPR at Boresight, dB	22	23	21	20	20	22
CPR at Sector, dB	13	11	16	12	11	4

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.27 m ² 2.906 ft ²
Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Wind Loading at Velocity, frontal	283.0 N @ 150 km/h 63.8 lbf @ 150 km/h
Wind Loading at Velocity, lateral	234.0 N @ 150 km/h 52.6 lbf @ 150 km/h
Wind Loading at Velocity, maximum	122.5 lbf @ 150 km/h 545.0 N @ 150 km/h
Wind Loading at Velocity, rear	287.0 N @ 150 km/h 64.5 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

SBNHH-1D65B

Width, packed	390 mm 15.354 in
Depth, packed	296 mm 11.654 in
Length, packed	2025 mm 79.724 in
Weight, gross	31 kg 68.343 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015



Classification

Designed, manufactured and/or distributed under this quality management system

Included Products

- BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

ATTACHMENT 3

	General	Power	Density					
Site Name: Bozrah E								
Tower Height: Verizon @ 160.1ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total
*T-Mobile	2	592	191	600	0.0124	0.4000	0.31%	
*T-Mobile	2	649	191	700	0.0136	0.4667	0.29%	
*T-Mobile	4	1102	191	1900	0.0463	1.0000	0.46%	
*T-Mobile	2	2204	191	1900	0.0463	1.0000	0.46%	
*T-Mobile	2	2589	191	2100	0.0544	1.0000	0.54%	
*Omnipoint	2	386	195	1930	0.0078	1.0000	0.08%	
*Sprint	1	377	175.5	850	0.0047	0.5667	0.08%	
*Sprint	2	942	175.5	850	0.0236	0.5667	0.42%	
*Sprint	5	512	175.5	1900	0.0320	1.0000	0.32%	
*Sprint	2	1280	175.5	1900	0.0320	1.0000	0.32%	
*Sprint	8	778	175.5	2500	0.0779	1.0000	0.78%	
*AT&T	1	284	182	850	0.0033	0.5667	0.06%	
*AT&T	1	1000	182	850	0.0116	0.5667	0.20%	
*AT&T	1	2951	182	700	0.0343	0.4667	0.73%	
*AT&T	1	1475	182	700	0.0171	0.4667	0.37%	
*AT&T	2	3664	182	1900	0.0851	1.0000	0.85%	
*AT&T	1	1000	182	850	0.0116	0.5667	0.20%	
VZW 700	4	690	160.1	751	0.0039	0.5007	0.77%	
VZW CDMA	2	471	160.1	877.26	0.0013	0.5840	0.23%	
VZW Cellular	4	369	160.1	874	0.0021	0.5827	0.36%	
VZW PCS	4	1467	160.1	1975	0.0082	1.0000	0.82%	
VZW AWS	4	1656	160.1	2120	0.0093	1.0000	0.93%	
VZW CBAND	4	6531	160.1	3730.08	0.0367	1.0000	3.67%	
								13.27%
* Source: Siting Council								

ATTACHMENT 4



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 193 ft PIROD Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT01105-S

Customer Site Name: Bozrah

Carrier Name: Verizon (App#: 169855, V1)

Carrier Site ID / Name: 467314 / Bozrah_East_CT

Site Location: 131 Gifford Lane

Bozrah, Connecticut

New London County

Latitude: 41.552517

Longitude: -72.150708

Exp.10/31/2021



Analysis Result:

Max Structural Usage: 89.5% [Pass]

Max Foundation Usage: 73.0% [Pass]

Additional Usage Caused by Mount Modification:

09/28/2021

Report Prepared By: Younus Alkarawi



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 193 ft PIROD Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT01105-S

Customer Site Name: Bozrah

Carrier Name: Verizon (App#: 169855, V1)

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Site Location: 131 Gifford Lane

Bozrah, Connecticut

New London County

Latitude: 41.552517

Longitude: -72.150708

Analysis Result:

Max Structural Usage: 89.5% [Pass]

Max Foundation Usage: 73.0% [Pass]

Additional Usage Caused by Mount Modification:

Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 193 ft PIROD Self Supporting Tower to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	PIROD Inc, dwg# 105243-b, date: 04/07/1999
Foundation Drawing	PIROD Inc, dwg# 204669-B, date: 04/07/1999
Geotechnical Report	JGI, Project# C98492G, Date: 12/4/1998
Modification Drawings	
Mount Analysis	Verizon MA by Maser Consulting Project #: 20777639, Dated 07/01/2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA- In accordance with this standard, the structure was analyzed using **TESTowers**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 136.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 105.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			EMS - EMS RR90-17-02DP - Panel	Modified Low Profile Platform with and (1) HRK12-U	(3) 1.9" Fiber	T-Mobile
			Panel			
			CommScope SDX1926Q-43 Diplexers			
			Ericsson Radio			
			Ericsson 4424 B25			
			Ericsson 4415 B66A			
7			Powerwave 7770	(3) Sector Frame (Commscope MTC3615)	(12) 1 5/8" Coax (2) 5/8" Fiber	
8			Cci HPA-65R-BUU-H8			
9			Cci DMP65R-BU8DA			
10			Powerwave LGP21401 TMA			
11			Powerwave LGP21902 Diplexer			
12			Ericsson 4449 B5/B12			
13			Ericsson RRUS 12			
14			Ericsson RRUS 11			
5			Ericsson RRUS 32			
6			Ericsson RRUS A2			
7			Raycap DC6-48-60-18-8F			
8			Raycap DC6-48-60-0-8C-EV			
9		3	RFS APXVTM14-C-I20 Antennas - Panel			
20			Commscope NNVV-65B-R4 Antenna			
21			ALU 1900 MHz RRH			
22			ALU 800 MHz RRH			
23			ALU TD-RRH 8X20-25			
			Commscope HBXX-6517DS-A2M - Panel	(3) Sector Frame w/ Handrails	Hybrid	Verizon
		3	Commscope LNX-6514DS-A1M - Panel			
			Amphenol QUAD656C0000x - Panel			
			Alcatel Lucent RRH2x60-AWS –			
			Alcatel Lucent RRH2x60-1900 –			
			Alcatel Lucent RRH2x60-700 –			
			–			
			Lucent KS24019-L112A GPS	Direct Mount	(1) GPS Line	
31			Andrew PC1N0F-0190B-002ME911 Omnis	Direct mount		T-Mobile

Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
24		3	Commscope LNX-6514DS-A1M - Panel	(3) Modified Sector Frame w/ Handrails W/ (3) Site Pro 1 SFS-V (V-Style Reinforcement Kit), (12) Site Pro 1 Puck (Crossover Plate Assembly), (6) Site Pro 1 SCX7-U (Crossover Plate Assembly), (3) 4'-0" (F.V.) P2 STD Pipe & (3) 8'-0" P2.5 STD Pipe	Hybrid	Verizon
5			Andrew SBNHH-1D65B - Panel			
6			Samsung MT6407-77A - Panel			
7			Samsung B2/B66A RRH-BR049			
8			Samsung B5/B13 RRH-BR04C			
9			Raycap DB-B1-6C-12AB-0Z - OVP			
30			Alcatel Lucent KS24019-L112A-GPS	Direct Mount	(1) GPS Line	

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

Tower Component	Legs	Diagonals	Horizontals
Max. Usage:			
Pass/Fail	Pass	Pass	Pass

Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Analysis Reactions			

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.2321 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

This analysis was performed based on the information supplied to **Tower Engineering Solutions,** Verification of the information provided was not included in the Scope of Work for . The accuracy of the analysis is dependent on the accuracy of the information provided.

The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of . In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Structure: CT01105-S-SBA

Site Name: Bozrah
Type: Self Support
Height: 193.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: Triangle
Base Width: 22.00
Top Width: 5.00

Code: EIA/TIA-222-G
Basic WS: 105.00
Basic Ice WS: 50.00
Operational WS: 60.00

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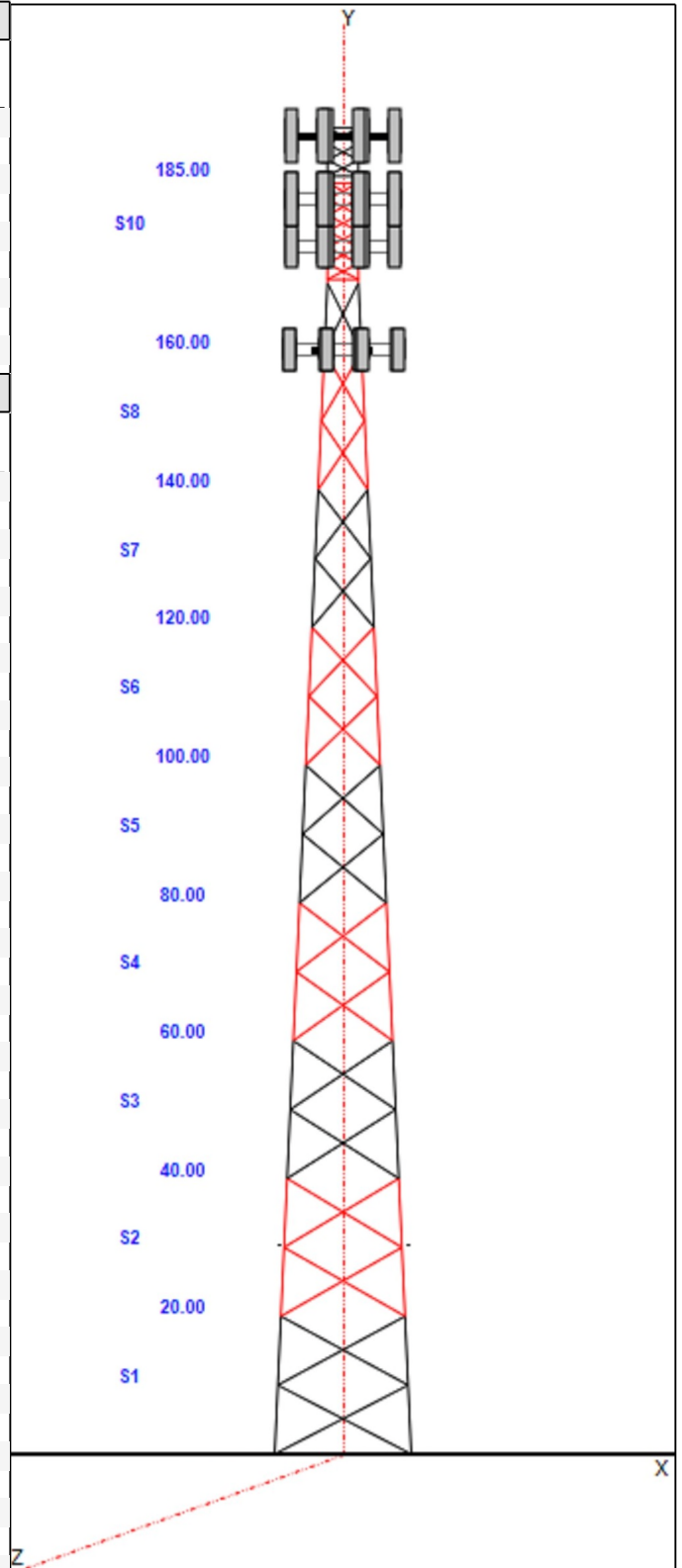


Section Properties

Sect	Leg Members	Diagonal Members	Horizontal Members
1	18B 18"BD 2.5"	DAE 3.5X3.5X0.3125	
2-3	12B 12"BD 2.25"	SAE 3.5X3.5X0.3125	
4	12B 12"BD 2"	SAE 3.5X3.5X0.3125	
5	12B 12"BD 2"	SAE 3X3X0.3125	SAE
6	12B 12"BD 1.75"	SAE 3X3X0.3125	
7	12B 12"BD 1.5"	SAE 3X3X0.1875	SAE
8	12B 12"BD 1.5"	SAE 3X3X0.1875	
9	12B 12"BD 1.25"	SAE 2.5X2.5X0.1875	SAE
10-11	SOL 2" SOLID	SOL 1" SOLID	SOL 1 1/4" SOLID

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
191.00	191.00	1	Low Profile Platform
191.00	191.00	1	PRK-1245 (kicker kit)
191.00	191.00	1	TAP-472
191.00	191.00	1	HRA12
191.00	191.00	3	Commscope SDX1926Q-43
191.00	191.00	3	Ericsson 4449 B71 + B85
191.00	191.00	3	Ericsson 4424 B25
191.00	191.00	3	Ericsson 4415 B66A
191.00	191.00	6	RR90-17-02DP
191.00	191.00	3	APXVAALL24_43-U-NA20
182.00	182.00	3	Sector Frame w/ Handrails
182.00	182.00	3	CCI HPA-65R-BUU-H8 Antennas
182.00	182.00	3	Powerwave 7770 Antennas
182.00	182.00	6	Powerwave LGP21401 TMAs
182.00	182.00	3	Ericsson RRUS 11
182.00	182.00	3	Ericsson RRUS 12
182.00	182.00	3	Ericsson RRUS A2
182.00	182.00	3	Ericsson RRUS 32
182.00	182.00	6	Powerwave LGP21903
182.00	182.00	1	Raycap DC6-48-60-18-8F
182.00	182.00	3	DMP65R-BU8DA
182.00	182.00	3	4449 B5/B12
182.00	182.00	1	DC6-48-60-0-8C-EV
175.00	175.00	3	RFS APXVTM14-C-I20 Antennas
175.00	175.00	3	Commscope NNVV-65B-R4 Antenna
175.00	175.00	3	ALU 1900 MHz RRH
175.00	175.00	6	ALU 800 MHz RRH
175.00	175.00	3	ALU TD-RRH 8X20-25
175.00	175.00	3	Sector Frame w/ Handrails
175.00	175.00	1	(3) SFS-H-L (V-Braces)
160.00	160.00	3	Sector Frame w/ Handrails
160.00	160.10	3	B2/B66A RRH-BR049 (RFV01U-D1A)
160.00	160.10	3	B5/B13 RRH-BR04C (RFV01U-D2A)
160.00	160.10	3	Raycap DB-B1-6C-12AB-0Z-OVP
160.00	160.10	3	Commscope LNX-6514DS-A1M
160.00	160.10	6	Andrew SBNHH-1D65B
160.00	160.10	3	Samsung MT6407-77A
160.00	160.10	1	(3) SFS-V (V-Braces)
160.00	160.00	3	8'-0" P2.5 STD Pipe
100.00	100.00	1	Direct Mount



Structure: CT01105-S-SBA

Site Name: Bozrah	Code: EIA/TIA-222-G	9/28/2021
Type: Self Support	Base Shape: Triangle	Basic WS: 105.00
Height: 193.00 (ft)	Base Width: 22.00	Basic Ice WS: 50.00
Base Elev: 0.00 (ft)	Top Width: 5.00	Operational WS: 60.00



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100.00	100.00	1	Lucent KS24019-L112A GPS
30.00	30.00	2	Andrew PC1N0F-0190B-002M
30.00	30.00	1	Direct Mount

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	191.00	8	1 5/8" Coax
0.00	191.00	3	1.9" Fiber
0.00	191.00	1	W/G Ladder
0.00	182.00	12	1 5/8" Coax
0.00	182.00	4	3/4" DC
0.00	182.00	3	3/8" RET
0.00	182.00	2	5/8" Fiber
0.00	182.00	1	W/G Ladder
0.00	175.00	4	1 1/4" Coax
0.00	160.00	12	1 5/8" Coax
0.00	160.00	3	1 5/8" Hybrid
0.00	100.00	1	GPS Line
0.00	100.00	1	W/G Ladder
0.00	30.00	2	1/2" Coax

Base Reactions

Leg	Overturning
Max Uplift: -372.64 (kips)	Moment: 7662.15 (ft-kips)
Max Down: 426.80 (kips)	Total Down: 73.93 (kips)
Max Shear: 45.01 (kips)	Total Shear: 66.49 (kips)

Structure: CT01105-S-SBA

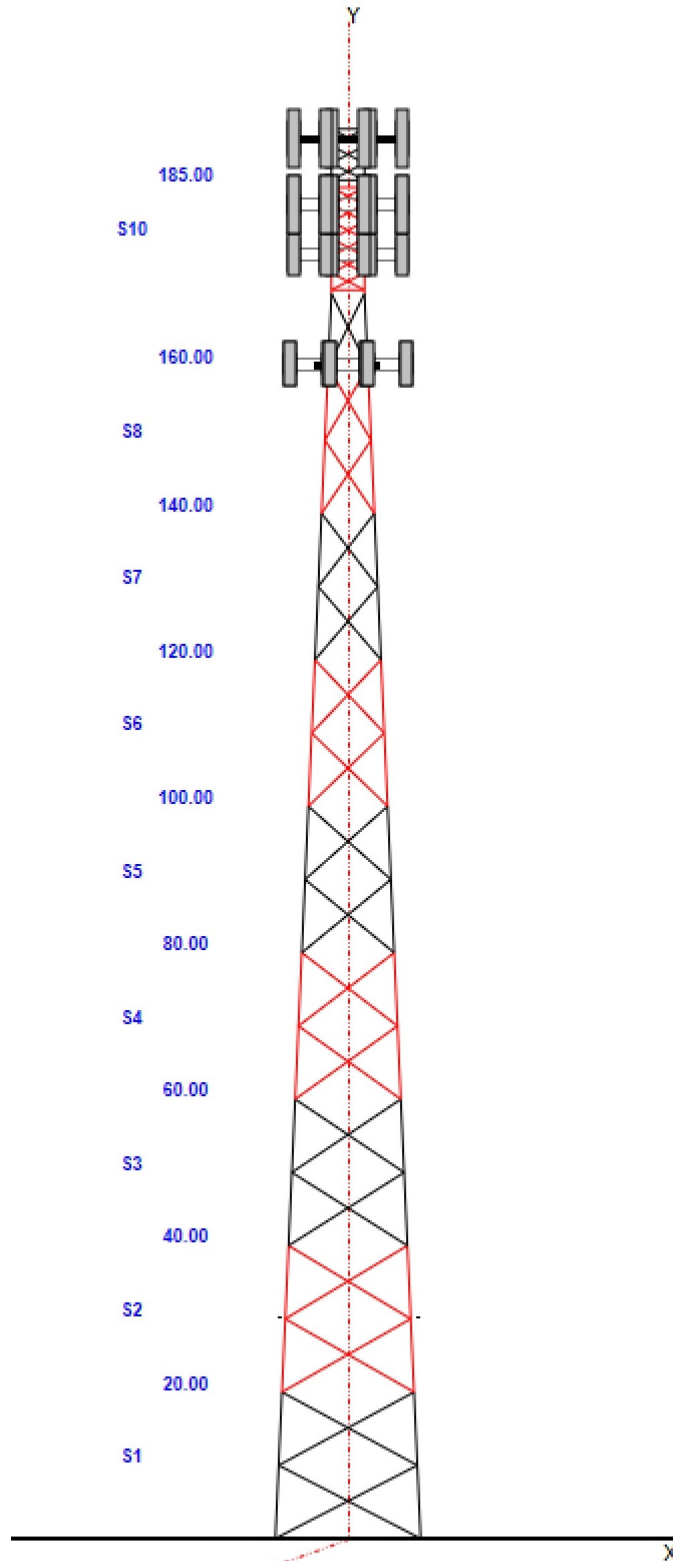
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Type: Self Support
Height: 193.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: Triangle
Base Width: 22.00
Top Width: 5.00

Code: EIA/TIA-222-G
Basic WS: 105.00
Basic Ice WS: 50.00
Operational WS: 60.00

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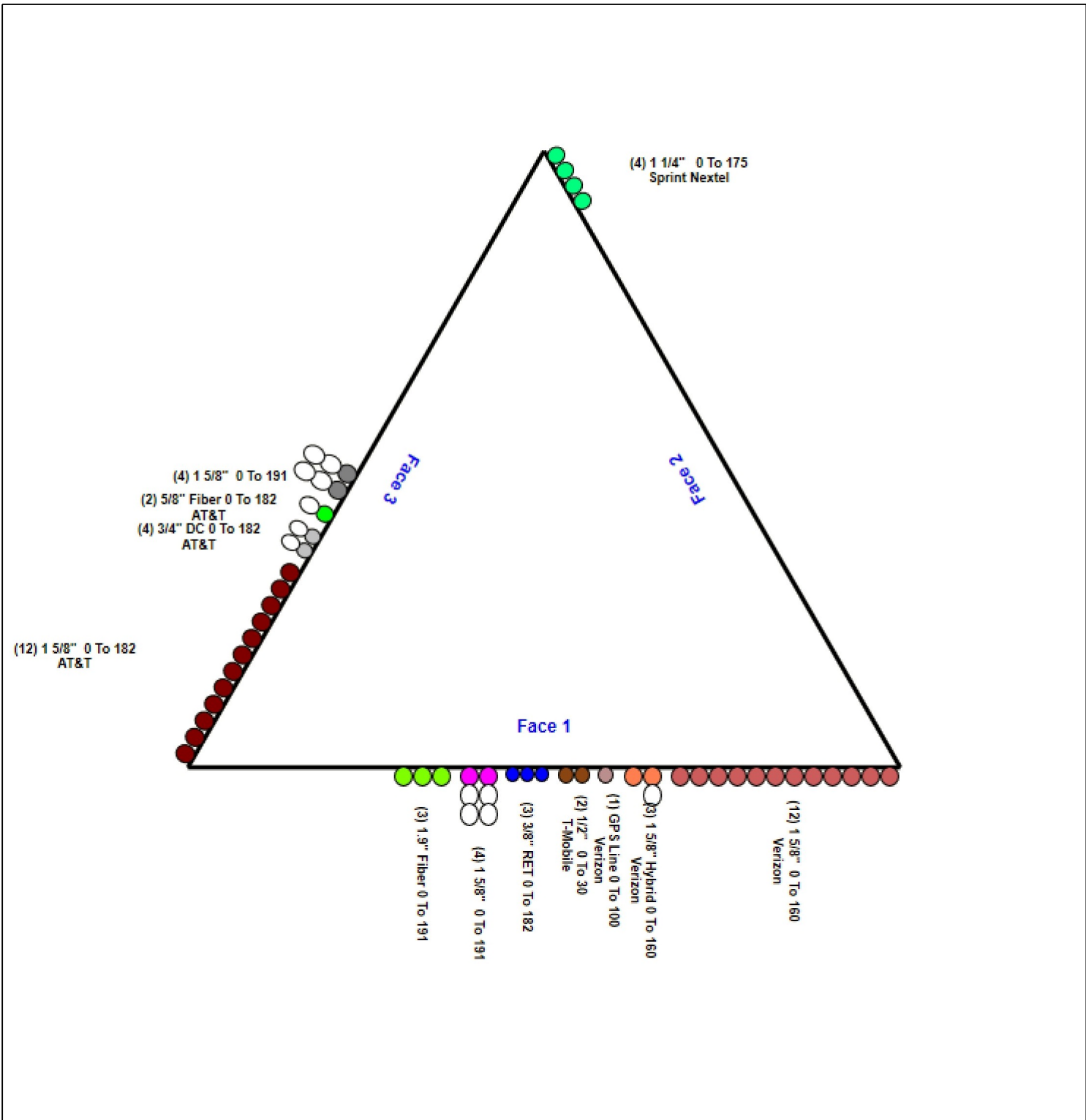
Structure: CT01105-S-SBA - Coax Line Placement

Type: Self Support
Site Name: Bozrah
Height: 193.00 (ft)

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Loading Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
191.00	Low Profile Platform	1	1500.0	22.000	2839.51	40.075	0.000	0.000	0.000	1.00	1.00	0.000
191.00	PRK-1245 (kicker kit)	1	464.91	9.500	797.05	19.680	0.000	0.000	0.000	1.00	1.00	0.000
191.00	TAP-472	1	240.00	6.400	582.92	13.258	0.000	0.000	0.000	1.00	1.00	0.000
191.00	HRA12	1	415.06	9.850	830.19	22.516	0.000	0.000	0.000	1.00	1.00	0.000
191.00	Commscope SDX1926Q-43	3	5.00	0.700	22.13	1.360	12.000	6.000	3.000	0.75	1.00	0.000
191.00	Ericsson 4449 B71 + B85	3	70.00	1.650	140.26	2.202	15.000	13.200	9.300	0.75	0.67	0.000
191.00	Ericsson 4424 B25	3	88.00	2.050	176.88	2.661	17.100	14.400	11.300	0.75	0.67	0.000
191.00	Ericsson 4415 B66A	3	49.60	1.640	108.46	2.202	15.000	13.200	6.200	0.75	0.67	0.000
191.00	RR90-17-02DP	6	13.50	4.360	115.20	5.371	56.000	8.000	2.800	0.75	0.68	0.000
191.00	APXVAALL24_43-U-NA20	3	128.00	20.240	556.98	22.186	95.900	24.000	7.800	0.75	0.70	0.000
182.00	Sector Frame w/ Handrails	3	550.00	21.500	1252.84	41.343	0.000	0.000	0.000	0.75	0.75	0.000
182.00	CCI HPA-65R-BUU-H8 Antennas	3	68.00	12.980	364.82	14.624	92.400	14.800	7.400	0.80	0.79	0.000
182.00	Powerwave 7770 Antennas	3	16.00	1.730	72.03	2.339	28.000	7.000	4.000	0.80	0.79	0.000
182.00	Powerwave LGP21401 TMAs	6	14.10	1.290	39.53	2.140	14.400	9.200	2.600	0.80	0.50	0.000
182.00	Ericsson RRUS 11	3	51.00	2.520	124.50	3.164	17.000	17.800	7.200	0.80	0.67	0.000
182.00	Ericsson RRUS 12	3	60.00	2.700	135.57	3.795	18.200	17.800	8.000	0.80	0.67	0.000
182.00	Ericsson RRUS A2	3	21.20	1.860	57.92	2.850	12.800	15.000	3.400	0.80	0.67	0.000
182.00	Ericsson RRUS 32	3	77.00	1.650	126.59	2.240	20.900	9.500	3.300	0.80	0.67	0.000
182.00	Powerwave LGP21903	6	5.50	0.270	14.07	0.674	4.400	6.300	3.000	0.80	0.50	0.000
182.00	Raycap DC6-48-60-18-8F	1	31.80	0.920	94.67	1.365	24.000	11.000	11.000	0.80	1.00	0.000
182.00	DMP65R-BU8DA	3	39.00	12.850	393.79	38.448	96.000	20.500	8.500	0.80	0.50	0.000
182.00	4449 B5/B12	3	71.00	1.970	125.29	2.527	17.900	13.200	9.400	0.80	0.67	0.000
182.00	DC6-48-60-0-8C-EV	1	16.00	4.780	141.83	5.679	31.400	18.300	10.200	0.80	0.50	0.000
175.00	RFS APXVTM14-C-I20 Antennas	3	56.00	6.340	219.69	7.473	56.300	12.600	6.300	0.80	0.79	0.000
175.00	Commscope NNVV-65B-R4 Antenna	3	77.40	12.270	367.81	13.751	72.000	19.600	7.800	0.80	0.74	0.000
175.00	ALU 1900 MHz RRH	3	44.00	3.800	155.02	5.214	23.000	13.000	17.000	0.80	0.67	0.000
175.00	ALU 800 MHz RRH	6	53.00	2.490	128.22	3.653	19.700	13.000	10.800	0.80	0.67	0.000
175.00	ALU TD-RRH 8X20-25	3	70.00	4.050	182.74	4.878	26.100	18.600	6.700	0.80	0.67	0.000
175.00	Sector Frame w/ Handrails	3	550.00	21.500	1252.84	41.343	0.000	0.000	0.000	0.75	0.75	0.000
175.00	(3) SFS-H-L (V-Braces)	1	230.00	6.700	556.57	13.835	0.000	0.000	0.000	0.75	0.75	0.000
160.00	Sector Frame w/ Handrails	3	550.00	21.500	1241.11	41.011	0.000	0.000	0.000	0.75	0.75	0.000
160.00	B2/B66A RRH-BR049	3	84.40	1.870	160.96	2.443	15.000	15.000	10.000	0.80	0.67	0.100
160.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	70.30	1.870	139.66	2.443	15.000	15.000	8.100	0.80	0.67	0.100
160.00	Raycap DB-B1-6C-12AB-0Z-OVP	3	26.90	4.100	176.00	4.901	25.700	15.730	10.250	0.80	0.67	0.100
160.00	Commscope LNX-6514DS-A1M	3	38.40	8.170	214.68	10.993	72.700	11.900	7.100	0.80	0.83	0.100
160.00	Andrew SBNHH-1D65B	6	40.00	8.160	243.13	9.460	72.600	11.900	7.100	0.80	0.83	0.100
160.00	Samsung MT6407-77A	3	79.40	4.690	198.94	5.637	35.100	16.100	5.500	0.80	0.70	0.100
160.00	(3) SFS-V (V-Braces)	1	197.00	10.000	472.05	20.471	0.000	0.000	0.000	0.75	1.00	0.100
160.00	8'-0" P2.5 STD Pipe	3	12.00	3.075	23.73	6.939	0.000	0.000	0.000	0.75	1.00	0.000
100.00	Direct Mount	1	87.00	4.310	213.96	9.428	0.000	0.000	0.000	1.00	1.00	0.000
100.00	Lucent KS24019-L112A GPS	1	0.50	0.120	6.82	0.315	6.000	3.600	3.600	1.00	1.00	0.000
30.00	Andrew PC1N0F-0190B-002M	2	0.40	0.030	2.15	0.123	3.900	1.600	1.600	1.00	1.00	0.000
30.00	Direct Mount	1	87.00	4.310	200.75	8.895	0.000	0.000	0.000	1.00	1.00	0.000
Totals:		121	12,884.47		33,955.16					Number of Appurtenances :		43

Loading Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	191.00	1 5/8" Coax	8	1.98	1.04	33.30	1,3	Block		N	1.00	1.00	
0.00	191.00	1.9" Fiber	3	1.90	1.04	100.00	1	Individual NR		N	1.00	1.00	
0.00	191.00	W/G Ladder	1	3.00	6.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	182.00	1 5/8" Coax	12	1.98	1.04	100.00	3	Individual NR		N	1.00	1.00	
0.00	182.00	3/4" DC	4	0.75	0.40	50.00	3	Block		N	1.00	1.00	
0.00	182.00	3/8" RET	3	0.38	0.06	100.00	1	Individual NR		N	1.00	1.00	
0.00	182.00	5/8" Fiber	2	1.11	0.52	50.00	3	Block		N	1.00	1.00	
0.00	182.00	W/G Ladder	1	3.00	6.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	175.00	1 1/4" Coax	4	1.55	0.66	100.00	2	Individual NR		N	1.00	1.00	
0.00	160.00	1 5/8" Coax	12	1.98	1.04	100.00	1	Individual NR		N	1.00	1.00	
0.00	160.00	1 5/8" Hybrid	3	2.00	1.10	50.00	1	Block		N	1.00	1.00	
0.00	100.00	GPS Line	1	0.96	0.40	100.00	1	Individual NR		N	1.00	1.00	
0.00	100.00	W/G Ladder	1	3.00	6.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	30.00	1/2" Coax	2	0.65	0.16	100.00	1	Individual NR		N	1.00	1.00	

Section Forces

Structure: CT01105-S-SBA
Site Name: Bozrah
Height: 193.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 1.2D + 1.6W Normal Wind

1.2D + 1.6W 105 mph Wind at Normal To Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat	Round								Linear	Linear					
1	10.0	16.79	26.376	26.21	0.00	0.12	2.88	1.00	1.00	0.00	37.84	149.76	0.00	12,212.	0.0	2488.69	2689.07	5,177.76
2	30.0	16.81	24.346	23.64	0.00	0.12	2.88	1.00	1.00	0.00	35.36	148.68	0.00	7,722.3	0.0	2324.19	2673.51	4,997.70
3	50.0	19.45	22.326	23.64	0.00	0.13	2.84	1.00	1.00	0.00	32.95	147.59	0.00	7,537.3	0.0	2478.56	3072.99	5,551.55
4	70.0	21.41	20.384	22.04	0.00	0.14	2.82	1.00	1.00	0.00	30.47	147.59	0.00	6,712.5	0.0	2503.61	3383.08	5,886.69
5	90.0	23.01	15.857	22.04	0.00	0.14	2.81	1.00	1.00	0.00	25.76	147.59	0.00	6,284.1	0.0	2263.75	3634.93	5,898.69
6	110.0	24.36	14.383	18.83	0.00	0.14	2.79	1.00	1.00	0.00	23.49	140.99	0.00	5,224.1	0.0	2171.62	3612.46	5,784.09
7	130.0	25.55	13.022	17.23	0.00	0.16	2.73	1.00	1.00	0.00	21.68	140.99	0.00	4,182.5	0.0	2059.88	3789.07	5,848.95
8	150.0	26.62	11.787	17.23	0.00	0.20	2.61	1.00	1.00	0.00	20.58	140.99	0.00	4,116.0	0.0	1945.67	3947.20	5,892.87
9	165.0	27.35	4.586	7.81	0.00	0.21	2.56	1.00	1.00	0.00	8.73	45.70	0.00	1,578.3	0.0	832.11	1363.79	2,195.90
10	177.5	27.93	0.000	11.36	0.00	0.15	2.78	1.00	1.00	0.00	6.56	55.38	0.00	2,001.2	0.0	693.43	1713.16	2,406.60
11	189.0	28.44	0.000	6.35	0.00	0.15	2.76	1.00	1.00	0.00	3.67	8.32	0.00	902.3	0.0	391.80	287.16	678.95
														58,473.6	0.0	50,319.74		

Load Case: 1.2D + 1.6W 60° Wind

1.2D + 1.6W 105 mph Wind at 60° From Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat	Round								Linear	Linear					
1	10.0	16.79	26.376	26.21	0.00	0.12	2.88	0.80	1.00	0.00	32.57	149.76	0.00	12,212.	0.0	2141.77	2689.07	4,830.84
2	30.0	16.81	24.346	23.64	0.00	0.12	2.88	0.80	1.00	0.00	30.49	148.68	0.00	7,722.3	0.0	2004.16	2673.51	4,677.67
3	50.0	19.45	22.326	23.64	0.00	0.13	2.84	0.80	1.00	0.00	28.48	147.59	0.00	7,537.3	0.0	2142.67	3072.99	5,215.66
4	70.0	21.41	20.384	22.04	0.00	0.14	2.82	0.80	1.00	0.00	26.39	147.59	0.00	6,712.5	0.0	2168.58	3383.08	5,551.66
5	90.0	23.01	15.857	22.04	0.00	0.14	2.81	0.80	1.00	0.00	22.58	147.59	0.00	6,284.1	0.0	1985.02	3634.93	5,619.95
6	110.0	24.36	14.383	18.83	0.00	0.14	2.79	0.80	1.00	0.00	20.61	140.99	0.00	5,224.1	0.0	1905.64	3612.46	5,518.10
7	130.0	25.55	13.022	17.23	0.00	0.16	2.73	0.80	1.00	0.00	19.08	140.99	0.00	4,182.5	0.0	1812.47	3789.07	5,601.53
8	150.0	26.62	11.787	17.23	0.00	0.20	2.61	0.80	1.00	0.00	18.22	140.99	0.00	4,116.0	0.0	1722.76	3947.20	5,669.96
9	165.0	27.35	4.586	7.81	0.00	0.21	2.56	0.80	1.00	0.00	7.82	45.70	0.00	1,578.3	0.0	744.71	1363.79	2,108.50
10	177.5	27.93	0.000	11.36	0.00	0.15	2.78	0.80	1.00	0.00	6.56	55.38	0.00	2,001.2	0.0	693.43	1713.16	2,406.60
11	189.0	28.44	0.000	6.35	0.00	0.15	2.76	0.80	1.00	0.00	3.67	8.32	0.00	902.3	0.0	391.80	287.16	678.95
														58,473.6	0.0	47,879.42		

Section Forces

Structure: CT01105-S-SBA
Site Name: Bozrah
Height: 193.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 1.2D + 1.6W 90° Wind

1.2D + 1.6W 105 mph Wind at 90° From Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
		Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)						
1	10.0	16.79	26.376	26.21	0.00	0.12	2.88	0.85	1.00	0.00	33.89	149.76	0.00	12,212.	0.0	2228.50	2689.07	4,917.57
2	30.0	16.81	24.346	23.64	0.00	0.12	2.88	0.85	1.00	0.00	31.71	148.68	0.00	7,722.3	0.0	2084.17	2673.51	4,757.68
3	50.0	19.45	22.326	23.64	0.00	0.13	2.84	0.85	1.00	0.00	29.60	147.59	0.00	7,537.3	0.0	2226.64	3072.99	5,299.63
4	70.0	21.41	20.384	22.04	0.00	0.14	2.82	0.85	1.00	0.00	27.41	147.59	0.00	6,712.5	0.0	2252.33	3383.08	5,635.41
5	90.0	23.01	15.857	22.04	0.00	0.14	2.81	0.85	1.00	0.00	23.38	147.59	0.00	6,284.1	0.0	2054.70	3634.93	5,689.63
6	110.0	24.36	14.383	18.83	0.00	0.14	2.79	0.85	1.00	0.00	21.33	140.99	0.00	5,224.1	0.0	1972.13	3612.46	5,584.60
7	130.0	25.55	13.022	17.23	0.00	0.16	2.73	0.85	1.00	0.00	19.73	140.99	0.00	4,182.5	0.0	1874.32	3789.07	5,663.39
8	150.0	26.62	11.787	17.23	0.00	0.20	2.61	0.85	1.00	0.00	18.81	140.99	0.00	4,116.0	0.0	1778.49	3947.20	5,725.69
9	165.0	27.35	4.586	7.81	0.00	0.21	2.56	0.85	1.00	0.00	8.04	45.70	0.00	1,578.3	0.0	766.56	1363.79	2,130.35
10	177.5	27.93	0.000	11.36	0.00	0.15	2.78	0.85	1.00	0.00	6.56	55.38	0.00	2,001.2	0.0	693.43	1713.16	2,406.60
11	189.0	28.44	0.000	6.35	0.00	0.15	2.76	0.85	1.00	0.00	3.67	8.32	0.00	902.3	0.0	391.80	287.16	678.95
													58,473.6	0.0			48,489.50	

Load Case: 0.9D + 1.6W Normal Wind

0.9D + 1.6W 105 mph Wind at Normal To Face

Wind Load Factor: 1.60
Dead Load Factor: 0.90
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
		Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)						
1	10.0	16.79	26.376	26.21	0.00	0.12	2.88	1.00	1.00	0.00	37.84	149.76	0.00	9,159.7	0.0	2488.69	2689.07	5,177.76
2	30.0	16.81	24.346	23.64	0.00	0.12	2.88	1.00	1.00	0.00	35.36	148.68	0.00	5,791.7	0.0	2324.19	2673.51	4,997.70
3	50.0	19.45	22.326	23.64	0.00	0.13	2.84	1.00	1.00	0.00	32.95	147.59	0.00	5,653.0	0.0	2478.56	3072.99	5,551.55
4	70.0	21.41	20.384	22.04	0.00	0.14	2.82	1.00	1.00	0.00	30.47	147.59	0.00	5,034.4	0.0	2503.61	3383.08	5,886.69
5	90.0	23.01	15.857	22.04	0.00	0.14	2.81	1.00	1.00	0.00	25.76	147.59	0.00	4,713.1	0.0	2263.75	3634.93	5,898.69
6	110.0	24.36	14.383	18.83	0.00	0.14	2.79	1.00	1.00	0.00	23.49	140.99	0.00	3,918.1	0.0	2171.62	3612.46	5,784.09
7	130.0	25.55	13.022	17.23	0.00	0.16	2.73	1.00	1.00	0.00	21.68	140.99	0.00	3,136.9	0.0	2059.88	3789.07	5,848.95
8	150.0	26.62	11.787	17.23	0.00	0.20	2.61	1.00	1.00	0.00	20.58	140.99	0.00	3,087.0	0.0	1945.67	3947.20	5,892.87
9	165.0	27.35	4.586	7.81	0.00	0.21	2.56	1.00	1.00	0.00	8.73	45.70	0.00	1,183.7	0.0	832.11	1363.79	2,195.90
10	177.5	27.93	0.000	11.36	0.00	0.15	2.78	1.00	1.00	0.00	6.56	55.38	0.00	1,500.9	0.0	693.43	1713.16	2,406.60
11	189.0	28.44	0.000	6.35	0.00	0.15	2.76	1.00	1.00	0.00	3.67	8.32	0.00	676.8	0.0	391.80	287.16	678.95
													43,855.2	0.0			50,319.74	

Section Forces

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.6W 60° Wind	0.9D + 1.6W 105 mph Wind at 60° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	16.79	26.376	26.21	0.00	0.12	2.88	0.80	1.00	0.00	32.57	149.76	0.00	9,159.7	0.0	2141.77	2689.07	4,830.84
2	30.0	16.81	24.346	23.64	0.00	0.12	2.88	0.80	1.00	0.00	30.49	148.68	0.00	5,791.7	0.0	2004.16	2673.51	4,677.67
3	50.0	19.45	22.326	23.64	0.00	0.13	2.84	0.80	1.00	0.00	28.48	147.59	0.00	5,653.0	0.0	2142.67	3072.99	5,215.66
4	70.0	21.41	20.384	22.04	0.00	0.14	2.82	0.80	1.00	0.00	26.39	147.59	0.00	5,034.4	0.0	2168.58	3383.08	5,551.66
5	90.0	23.01	15.857	22.04	0.00	0.14	2.81	0.80	1.00	0.00	22.58	147.59	0.00	4,713.1	0.0	1985.02	3634.93	5,619.95
6	110.0	24.36	14.383	18.83	0.00	0.14	2.79	0.80	1.00	0.00	20.61	140.99	0.00	3,918.1	0.0	1905.64	3612.46	5,518.10
7	130.0	25.55	13.022	17.23	0.00	0.16	2.73	0.80	1.00	0.00	19.08	140.99	0.00	3,136.9	0.0	1812.47	3789.07	5,601.53
8	150.0	26.62	11.787	17.23	0.00	0.20	2.61	0.80	1.00	0.00	18.22	140.99	0.00	3,087.0	0.0	1722.76	3947.20	5,669.96
9	165.0	27.35	4.586	7.81	0.00	0.21	2.56	0.80	1.00	0.00	7.82	45.70	0.00	1,183.7	0.0	744.71	1363.79	2,108.50
10	177.5	27.93	0.000	11.36	0.00	0.15	2.78	0.80	1.00	0.00	6.56	55.38	0.00	1,500.9	0.0	693.43	1713.16	2,406.60
11	189.0	28.44	0.000	6.35	0.00	0.15	2.76	0.80	1.00	0.00	3.67	8.32	0.00	676.8	0.0	391.80	287.16	678.95
														43,855.2	0.0			47,879.42

Load Case: 0.9D + 1.6W 90° Wind	0.9D + 1.6W 105 mph Wind at 90° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	16.79	26.376	26.21	0.00	0.12	2.88	0.85	1.00	0.00	33.89	149.76	0.00	9,159.7	0.0	2228.50	2689.07	4,917.57
2	30.0	16.81	24.346	23.64	0.00	0.12	2.88	0.85	1.00	0.00	31.71	148.68	0.00	5,791.7	0.0	2084.17	2673.51	4,757.68
3	50.0	19.45	22.326	23.64	0.00	0.13	2.84	0.85	1.00	0.00	29.60	147.59	0.00	5,653.0	0.0	2226.64	3072.99	5,299.63
4	70.0	21.41	20.384	22.04	0.00	0.14	2.82	0.85	1.00	0.00	27.41	147.59	0.00	5,034.4	0.0	2252.33	3383.08	5,635.41
5	90.0	23.01	15.857	22.04	0.00	0.14	2.81	0.85	1.00	0.00	23.38	147.59	0.00	4,713.1	0.0	2054.70	3634.93	5,689.63
6	110.0	24.36	14.383	18.83	0.00	0.14	2.79	0.85	1.00	0.00	21.33	140.99	0.00	3,918.1	0.0	1972.13	3612.46	5,584.60
7	130.0	25.55	13.022	17.23	0.00	0.16	2.73	0.85	1.00	0.00	19.73	140.99	0.00	3,136.9	0.0	1874.32	3789.07	5,663.39
8	150.0	26.62	11.787	17.23	0.00	0.20	2.61	0.85	1.00	0.00	18.81	140.99	0.00	3,087.0	0.0	1778.49	3947.20	5,725.69
9	165.0	27.35	4.586	7.81	0.00	0.21	2.56	0.85	1.00	0.00	8.04	45.70	0.00	1,183.7	0.0	766.56	1363.79	2,130.35
10	177.5	27.93	0.000	11.36	0.00	0.15	2.78	0.85	1.00	0.00	6.56	55.38	0.00	1,500.9	0.0	693.43	1713.16	2,406.60
11	189.0	28.44	0.000	6.35	0.00	0.15	2.76	0.85	1.00	0.00	3.67	8.32	0.00	676.8	0.0	391.80	287.16	678.95
														43,855.2	0.0			48,489.50

Section Forces

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 10



Load Case: 1.2D + 1.0Di + 1.0Wi Normal Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	3.81	26.376	55.74	29.53	0.19	2.64	1.00	1.00	1.33	58.29	178.32	164.1	21,822.	9609.8	497.61	1090.30	1,587.91
2	30.0	3.81	24.346	54.83	31.19	0.20	2.60	1.00	1.00	1.49	55.84	180.84	178.2	16,828.	9106.2	469.88	1131.37	1,601.25
3	50.0	4.41	22.326	54.64	31.01	0.22	2.54	1.00	1.00	1.56	53.88	181.58	182.4	16,978.	9441.0	513.94	1306.59	1,820.53
4	70.0	4.86	20.384	52.28	30.24	0.23	2.50	1.00	1.00	1.62	50.72	182.83	188.6	16,310.	9597.4	523.27	1447.71	1,970.99
5	90.0	5.22	15.857	51.25	29.21	0.24	2.46	1.00	1.00	1.66	45.75	183.79	193.4	15,740.	9456.3	498.93	1559.05	2,057.98
6	110.0	5.52	14.383	46.91	28.07	0.26	2.41	1.00	1.00	1.69	41.95	172.33	191.7	14,334.	9110.0	473.87	1550.90	2,024.77
7	130.0	5.79	13.022	44.16	26.93	0.29	2.31	1.00	1.00	1.72	39.39	172.90	194.9	13,268.	9086.3	448.44	1585.10	2,010.02
8	150.0	6.04	11.787	43.10	25.87	0.36	2.16	1.00	1.00	1.75	38.43	173.40	197.7	13,227.	9111.1	425.66	1553.47	1,979.12
9	165.0	6.20	4.586	20.40	12.59	0.40	2.06	1.00	1.00	1.76	17.60	59.96	64.60	4,905.6	3327.3	190.81	514.37	705.18
10	177.5	6.33	0.000	42.78	31.42	0.52	1.87	1.00	1.00	1.77	29.96	74.40	72.47	6,494.5	4493.2	302.12	503.19	805.31
11	189.0	6.45	0.000	23.94	17.59	0.55	1.85	1.00	1.00	1.79	17.13	11.89	5.36	2,255.4	1353.1	173.28	62.11	235.39
														142,165.5	83691.9			

Load Case: 1.2D + 1.0Di + 1.0Wi 60° Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	3.81	26.376	55.74	29.53	0.19	2.64	0.80	1.00	1.33	53.01	178.32	164.1	21,822.	9609.8	452.57	1090.30	1,542.87
2	30.0	3.81	24.346	54.83	31.19	0.20	2.60	0.80	1.00	1.49	50.97	180.84	178.2	16,828.	9106.2	428.91	1131.37	1,560.28
3	50.0	4.41	22.326	54.64	31.01	0.22	2.54	0.80	1.00	1.56	49.41	181.58	182.4	16,978.	9441.0	471.35	1306.59	1,777.94
4	70.0	4.86	20.384	52.28	30.24	0.23	2.50	0.80	1.00	1.62	46.64	182.83	188.6	16,310.	9597.4	481.21	1447.71	1,928.93
5	90.0	5.22	15.857	51.25	29.21	0.24	2.46	0.80	1.00	1.66	42.58	183.79	193.4	15,740.	9456.3	464.34	1559.05	2,023.39
6	110.0	5.52	14.383	46.91	28.07	0.26	2.41	0.80	1.00	1.69	39.07	172.33	191.7	14,334.	9110.0	441.37	1550.90	1,992.28
7	130.0	5.79	13.022	44.16	26.93	0.29	2.31	0.80	1.00	1.72	36.79	172.90	194.9	13,268.	9086.3	418.79	1585.10	2,003.89
8	150.0	6.04	11.787	43.10	25.87	0.36	2.16	0.80	1.00	1.75	36.07	173.40	197.7	13,227.	9111.1	399.54	1553.47	1,953.01
9	165.0	6.20	4.586	20.40	12.59	0.40	2.06	0.80	1.00	1.76	16.68	59.96	64.60	4,905.6	3327.3	180.87	514.37	695.23
10	177.5	6.33	0.000	42.78	31.42	0.52	1.87	0.80	1.00	1.77	29.96	74.40	72.47	6,494.5	4493.2	302.12	503.19	805.31
11	189.0	6.45	0.000	23.94	17.59	0.55	1.85	0.80	1.00	1.79	17.13	11.89	5.36	2,255.4	1353.1	173.28	62.11	235.39
														142,165.5	83691.9			

Section Forces

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 90° Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)						
1	10.0	3.81	26.376	55.74	29.53	0.19	2.64	0.85	1.00	1.33	54.33	178.32	164.1	21,822.	9609.8	463.83	1090.30	1,554.13	
2	30.0	3.81	24.346	54.83	31.19	0.20	2.60	0.85	1.00	1.49	52.19	180.84	178.2	16,828.	9106.2	439.15	1131.37	1,570.53	
3	50.0	4.41	22.326	54.64	31.01	0.22	2.54	0.85	1.00	1.56	50.53	181.58	182.4	16,978.	9441.0	482.00	1306.59	1,788.59	
4	70.0	4.86	20.384	52.28	30.24	0.23	2.50	0.85	1.00	1.62	47.66	182.83	188.6	16,310.	9597.4	491.73	1447.71	1,939.44	
5	90.0	5.22	15.857	51.25	29.21	0.24	2.46	0.85	1.00	1.66	43.37	183.79	193.4	15,740.	9456.3	472.99	1559.05	2,032.04	
6	110.0	5.52	14.383	46.91	28.07	0.26	2.41	0.85	1.00	1.69	39.79	172.33	191.7	14,334.	9110.0	449.50	1550.90	2,000.40	
7	130.0	5.79	13.022	44.16	26.93	0.29	2.31	0.85	1.00	1.72	37.44	172.90	194.9	13,268.	9086.3	426.20	1585.10	2,011.31	
8	150.0	6.04	11.787	43.10	25.87	0.36	2.16	0.85	1.00	1.75	36.66	173.40	197.7	13,227.	9111.1	406.07	1553.47	1,959.54	
9	165.0	6.20	4.586	20.40	12.59	0.40	2.06	0.85	1.00	1.76	16.91	59.96	64.60	4,905.6	3327.3	183.35	514.37	697.72	
10	177.5	6.33	0.000	42.78	31.42	0.52	1.87	0.85	1.00	1.77	29.96	74.40	72.47	6,494.5	4493.2	302.12	503.19	805.31	
11	189.0	6.45	0.000	23.94	17.59	0.55	1.85	0.85	1.00	1.79	17.13	11.89	5.36	2,255.4	1353.1	173.28	62.11	235.39	
														142,165.5	83691.9				16,594.39

Load Case: 1.0D + 1.0W Normal Wind	1.0D + 1.0W 60 mph Wind at Normal To Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.00	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)						
1	10.0	5.48	26.376	26.21	0.00	0.12	2.88	1.00	1.00	0.00	41.08	149.76	0.00	10,177.	0.0	551.35	548.79	1,100.14	
2	30.0	5.49	24.346	23.64	0.00	0.12	2.88	1.00	1.00	0.00	37.71	148.68	0.00	6,435.3	0.0	505.82	545.61	1,051.43	
3	50.0	6.35	22.326	23.64	0.00	0.13	2.84	1.00	1.00	0.00	35.70	147.59	0.00	6,281.1	0.0	548.09	627.14	1,175.23	
4	70.0	6.99	20.384	22.04	0.00	0.14	2.82	1.00	1.00	0.00	32.86	147.59	0.00	5,593.8	0.0	551.16	690.42	1,241.59	
5	90.0	7.51	15.857	22.04	0.00	0.14	2.81	1.00	1.00	0.00	28.31	147.59	0.00	5,236.8	0.0	507.79	741.82	1,249.61	
6	110.0	7.96	14.383	18.83	0.00	0.14	2.79	1.00	1.00	0.00	25.06	140.99	0.00	4,353.4	0.0	472.91	737.24	1,210.15	
7	130.0	8.34	13.022	17.23	0.00	0.16	2.73	1.00	1.00	0.00	22.82	140.99	0.00	3,485.4	0.0	442.42	773.28	1,215.70	
8	150.0	8.69	11.787	17.23	0.00	0.20	2.61	1.00	1.00	0.00	21.67	140.99	0.00	3,430.0	0.0	418.19	805.55	1,223.74	
9	165.0	8.93	4.586	7.81	0.00	0.21	2.56	1.00	1.00	0.00	9.09	45.70	0.00	1,315.2	0.0	176.75	278.32	455.08	
10	177.5	9.12	0.000	11.36	0.00	0.15	2.78	1.00	1.00	0.00	6.56	55.38	0.00	1,667.7	0.0	141.52	349.62	491.14	
11	189.0	9.29	0.000	6.35	0.00	0.15	2.76	1.00	1.00	0.00	3.67	8.32	0.00	752.0	0.0	79.96	58.60	138.56	
														48,728.0	0.0				10,552.38

Section Forces

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 12



Load Case: 1.0D + 1.0W 60° Wind	1.0D + 1.0W 60 mph Wind at 60° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.00	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

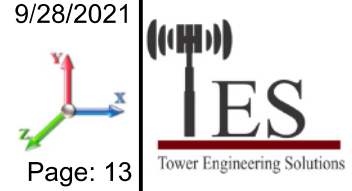
Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	5.48	26.376	26.21	0.00	0.12	2.88	0.80	1.00	0.00	35.81	149.76	0.00	10,177.	0.0	480.55	548.79	1,029.34
2	30.0	5.49	24.346	23.64	0.00	0.12	2.88	0.80	1.00	0.00	32.84	148.68	0.00	6,435.3	0.0	440.50	545.61	986.12
3	50.0	6.35	22.326	23.64	0.00	0.13	2.84	0.80	1.00	0.00	31.24	147.59	0.00	6,281.1	0.0	479.54	627.14	1,106.68
4	70.0	6.99	20.384	22.04	0.00	0.14	2.82	0.80	1.00	0.00	28.79	147.59	0.00	5,593.8	0.0	482.79	690.42	1,173.21
5	90.0	7.51	15.857	22.04	0.00	0.14	2.81	0.80	1.00	0.00	25.14	147.59	0.00	5,236.8	0.0	450.91	741.82	1,192.73
6	110.0	7.96	14.383	18.83	0.00	0.14	2.79	0.80	1.00	0.00	22.18	140.99	0.00	4,353.4	0.0	418.63	737.24	1,155.87
7	130.0	8.34	13.022	17.23	0.00	0.16	2.73	0.80	1.00	0.00	20.22	140.99	0.00	3,485.4	0.0	391.93	773.28	1,165.21
8	150.0	8.69	11.787	17.23	0.00	0.20	2.61	0.80	1.00	0.00	19.31	140.99	0.00	3,430.0	0.0	372.70	805.55	1,178.25
9	165.0	8.93	4.586	7.81	0.00	0.21	2.56	0.80	1.00	0.00	8.17	45.70	0.00	1,315.2	0.0	158.92	278.32	437.24
10	177.5	9.12	0.000	11.36	0.00	0.15	2.78	0.80	1.00	0.00	6.56	55.38	0.00	1,667.7	0.0	141.52	349.62	491.14
11	189.0	9.29	0.000	6.35	0.00	0.15	2.76	0.80	1.00	0.00	3.67	8.32	0.00	752.0	0.0	79.96	58.60	138.56
														48,728.0	0.0			10,054.36

Load Case: 1.0D + 1.0W 90° Wind	1.0D + 1.0W 60 mph Wind at 90° From Face
Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.00	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	5.48	26.376	26.21	0.00	0.12	2.88	0.85	1.00	0.00	37.12	149.76	0.00	10,177.	0.0	498.25	548.79	1,047.04
2	30.0	5.49	24.346	23.64	0.00	0.12	2.88	0.85	1.00	0.00	34.06	148.68	0.00	6,435.3	0.0	456.83	545.61	1,002.45
3	50.0	6.35	22.326	23.64	0.00	0.13	2.84	0.85	1.00	0.00	32.35	147.59	0.00	6,281.1	0.0	496.68	627.14	1,123.82
4	70.0	6.99	20.384	22.04	0.00	0.14	2.82	0.85	1.00	0.00	29.81	147.59	0.00	5,593.8	0.0	499.88	690.42	1,190.30
5	90.0	7.51	15.857	22.04	0.00	0.14	2.81	0.85	1.00	0.00	25.93	147.59	0.00	5,236.8	0.0	465.13	741.82	1,206.95
6	110.0	7.96	14.383	18.83	0.00	0.14	2.79	0.85	1.00	0.00	22.90	140.99	0.00	4,353.4	0.0	432.20	737.24	1,169.44
7	130.0	8.34	13.022	17.23	0.00	0.16	2.73	0.85	1.00	0.00	20.87	140.99	0.00	3,485.4	0.0	404.55	773.28	1,177.83
8	150.0	8.69	11.787	17.23	0.00	0.20	2.61	0.85	1.00	0.00	19.90	140.99	0.00	3,430.0	0.0	384.07	805.55	1,189.62
9	165.0	8.93	4.586	7.81	0.00	0.21	2.56	0.85	1.00	0.00	8.40	45.70	0.00	1,315.2	0.0	163.38	278.32	441.70
10	177.5	9.12	0.000	11.36	0.00	0.15	2.78	0.85	1.00	0.00	6.56	55.38	0.00	1,667.7	0.0	141.52	349.62	491.14
11	189.0	9.29	0.000	6.35	0.00	0.15	2.76	0.85	1.00	0.00	3.67	8.32	0.00	752.0	0.0	79.96	58.60	138.56
														48,728.0	0.0			10,178.86

Force/Stress Compression Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 13



LEG MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls	
							X	Y	Z					
1	20	18B - 18"BD 2.5"	-416.29	1.2D + 1.6W	Normal Wind	10.02	100	100	100	16.30	50.00	649.66	64.1	Member X
2	40	12B - 12"BD 2.25"	-382.17	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.38	50.00	514.03	74.3	Member X
3	60	12B - 12"BD 2.25"	-343.29	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.38	50.00	514.03	66.8	Member X
4	80	12B - 12"BD 2"	-302.52	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.41	50.00	405.83	74.5	Member X
5	100	12B - 12"BD 2"	-260.51	1.2D + 1.6W	Normal Wind	10.02	100	100	100	24.41	50.00	405.83	64.2	Member X
6	120	12B - 12"BD 1.75"	-216.63	1.2D + 1.6W	Normal Wind	10.02	100	100	100	25.99	50.00	308.82	70.1	Member X
7	140	12B - 12"BD 1.5"	-170.47	1.2D + 1.6W	Normal Wind	10.02	100	100	100	30.32	50.00	222.99	76.4	Member X
8	160	12B - 12"BD 1.5"	-118.74	1.2D + 1.6W	Normal Wind	10.02	100	100	100	30.32	50.00	222.99	53.2	Member X
9	170	12B - 12"BD 1.25"	-56.26	1.2D + 1.6W	Normal Wind	10.02	100	100	100	36.38	50.00	150.33	37.4	Member X
10	185	SOL - 2" SOLID	-41.78	1.2D + 1.6W	Normal Wind	2.33	100	100	100	56.00	50.00	112.40	37.2	Member X
11	193	SOL - 2" SOLID	-7.40	1.2D + 1.6W	Normal Wind	0.50	100	100	100	12.00	50.00	139.89	5.3	Member X

Splices

Sect	Top Elev	Load Case	Top Splice				Load Case	Bottom Splice					
			Force (kips)	Cap (kips)	Use %	Bolt Type		Num Bolts	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	1.2D + 1.6W Normal Wind	391.48	0.00	0.0		1.2D + 1.6W Normal Wind	427.29	0.00				
2	40	1.2D + 1.6W Normal Wind	353.46	0.00	0.0		1.2D + 1.6W Normal Wind	391.48	0.00		1/4	A325	6
3	60	1.2D + 1.6W Normal Wind	313.29	0.00	0.0		1.2D + 1.6W Normal Wind	353.46	0.00		1/4	A325	6
4	80	1.2D + 1.6W Normal Wind	271.58	0.00	0.0		1.2D + 1.6W Normal Wind	313.29	0.00		1/4	A325	6
5	100	1.2D + 1.6W Normal Wind	228.60	0.00	0.0		1.2D + 1.6W Normal Wind	271.58	0.00		1/4	A325	6
6	120	1.2D + 1.6W Normal Wind	183.22	0.00	0.0		1.2D + 1.6W Normal Wind	228.60	0.00		1	A325	6
7	140	1.2D + 1.6W Normal Wind	133.48	0.00	0.0		1.2D + 1.6W Normal Wind	183.22	0.00		1	A325	6
8	160	1.2D + 1.6W Normal Wind	74.43	0.00	0.0		1.2D + 1.6W Normal Wind	133.48	0.00		1	A325	6
9	170	1.2D + 1.6W Normal Wind	46.40	0.00	0.0		1.2D + 1.6W Normal Wind	74.43	0.00		1	A325	6
10	185	1.2D + 1.6W Normal Wind	7.48	0.00	0.0		1.2D + 1.6W Normal Wind	46.40	0.00		1	A325	6
11	193	1.2D + 1.0E	0.36	0.00	0.0		1.2D + 1.6W Normal Wind	7.48	0.00		5/8	A325	4

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Bear		Use %	Controls
							X	Y	Z					Cap (kips)	Cap (kips)		
1	20									0.00	0	0					
2	40									0.00	0	0					
3	60									0.00	0	0					
4	80									0.00	0	0					
5	100									0.00	0	0					
6	120									0.00	0	0					
7	140									0.00	0	0					
8	160									0.00	0	0					
9	170									0.00	0	0					
10	185	SOL - 1 1/4" SOLID	-0.86	1.2D + 1.6W	60° Wind	5.00	100	100	100	134.40	50.00	15.35	0	0		6	Member X
11	193	SOL - 1 1/4" SOLID	-0.96	1.2D + 1.6W	Normal Wind	5.00	100	100	100	134.40	50.00	15.35	0	0		6	Member X

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Bear		Use %	Controls	
							X	Y	Z					Cap (kips)	Cap (kips)			
1	20	DAE - 3.5X3.5X0.3125	-11.7	1.2D + 1.6W	Normal Wind	23.71	50	50	25	134.95	36.00	51.85	4	2	127.24	278.	23	Member Y
2	40	SAE - 3.5X3.5X0.3125	-10.5	1.2D + 1.6W	90° Wind	21.92	50	50	50	190.58	36.00	13.00	1	1	43.49	37.5	81	Member Z
3	60	SAE - 3.5X3.5X0.3125	-10.6	1.2D + 1.6W	90° Wind	20.16	50	50	50	175.28	36.00	15.37	4	2	127.24	139.	69	Member Z

Force/Stress Compression Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap		Bear Cap (kips)	Use %	Controls
						X	Y	Z					(kips)	(kips)			
4	80	SAE - 3.5X3.5X0.3125	-10.2	1.2D + 1.6W 90° Wind	18.45	50	50	50	160.42	36.00	18.35	1	1	43.49	37.5	56	Member Z
5	100	SAE - 3X3X0.3125	-9.70	1.2D + 1.6W 90° Wind	16.80	50	50	50	171.17	36.00	13.73	1	1	43.49	33.1	71	Member Z
6	120	SAE - 3X3X0.3125	-9.37	1.2D + 1.6W 90° Wind	15.24	50	50	50	155.27	36.00	16.68	1	1	31.81	29.9	56	Member Z
7	140	SAE - 3X3X0.1875	-9.29	1.2D + 1.6W 90° Wind	13.80	50	50	50	138.89	36.00	12.77	1	1	31.81	17.9	73	Member Z
8	160	SAE - 3X3X0.1875	-10.0	1.2D + 1.6W 90° Wind	12.50	50	50	50	125.87	36.00	15.34	1	1	31.81	17.9	65	Member Z
9	170	SAE - 2.5X2.5X0.1875	-9.52	1.2D + 1.6W Normal Wind	11.42	50	50	50	138.38	36.00	10.64	1	1	31.81	17.9	89	Member Z
10	185	SOL - 1" SOLID	-5.76	1.2D + 1.6W 90° Wind	5.52	50	50	50	132.42	50.00	10.12	0	0			57	Member X
11	193	SOL - 1" SOLID	-2.20	1.2D + 1.6W 90° Wind	5.52	50	50	50	119.18	50.00	12.49	0	0			18	Member X

Force/Stress Tension Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	18B - 18"BD 2.5"	365.48	0.9D + 1.6W 60° Wind	50	662.40	55.2	Member
2	40	12B - 12"BD 2.25"	337.39	0.9D + 1.6W 60° Wind	50	536.85	62.8	Member
3	60	12B - 12"BD 2.25"	304.64	0.9D + 1.6W 60° Wind	50	536.85	56.7	Member
4	80	12B - 12"BD 2"	269.91	0.9D + 1.6W 60° Wind	50	423.90	63.7	Member
5	100	12B - 12"BD 2"	233.28	0.9D + 1.6W 60° Wind	50	423.90	55.0	Member
6	120	12B - 12"BD 1.75"	194.54	0.9D + 1.6W 60° Wind	50	324.45	60.0	Member
7	140	12B - 12"BD 1.5"	152.77	0.9D + 1.6W 60° Wind	50	238.50	64.1	Member
8	160	12B - 12"BD 1.5"	104.48	0.9D + 1.6W 60° Wind	50	238.50	43.8	Member
9	170	12B - 12"BD 1.25"	47.93	0.9D + 1.6W 60° Wind	50	165.60	28.9	Member
10	185	SOL - 2" SOLID	37.56	0.9D + 1.6W 60° Wind	50	141.37	26.6	Member
11	193	SOL - 2" SOLID	4.32	0.9D + 1.6W 60° Wind	50	141.37	3.1	Member

Splices

Sect	Top Elev	Top Splice					Bottom Splice						
		Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	0.9D + 1.6W 60° Wind	343.60	0.00	0.0		0.9D + 1.6W 60° Wind	375.3	0.00				
2	40	0.9D + 1.6W 60° Wind	311.88	0.00	0.0		0.9D + 1.6W 60° Wind	343.6	457.92	75.0	1 1/4	A325	6
3	60	0.9D + 1.6W 60° Wind	277.75	0.00	0.0		0.9D + 1.6W 60° Wind	311.8	457.92	68.1	1 1/4	A325	6
4	80	0.9D + 1.6W 60° Wind	241.68	0.00	0.0		0.9D + 1.6W 60° Wind	277.7	457.92	60.7	1 1/4	A325	6
5	100	0.9D + 1.6W 60° Wind	203.85	0.00	0.0		0.9D + 1.6W 60° Wind	241.6	457.92	52.8	1 1/4	A325	6
6	120	0.9D + 1.6W 60° Wind	163.15	0.00	0.0		0.9D + 1.6W 60° Wind	203.8	318.06	64.1	1	A325	6
7	140	0.9D + 1.6W 60° Wind	117.26	0.00	0.0		0.9D + 1.6W 60° Wind	163.1	318.06	51.3	1	A325	6
8	160	0.9D + 1.6W 60° Wind	61.51	0.00	0.0		0.9D + 1.6W 60° Wind	117.2	318.06	36.9	1	A325	6
9	170	0.9D + 1.6W 60° Wind	36.95	0.00	0.0		0.9D + 1.6W 60° Wind	61.51	318.06	19.3	1	A325	6
10	185	0.9D + 1.6W 60° Wind	4.26	0.00	0.0		0.9D + 1.6W 60° Wind	36.95	318.06	11.6	1	A325	6
11	193		0.00	0.00	0.0		0.9D + 1.6W 60° Wind	4.26	82.80	5.1	5/8	A325	4

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			36	0.00	0	0					
2	40	-			36	0.00	0	0					
3	60	-			36	0.00	0	0					
4	80	-			36	0.00	0	0					
5	100	SAE -			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	SAE -			36	0.00	0	0					
8	160	-			36	0.00	0	0					
9	170	SAE -			36	0.00	0	0					
10	185	SOL - 1 1/4" SOLID	0.87	1.2D + 1.6W Normal Wi	50	55.22	0	0				1.6	Member
11	193	SOL - 1 1/4" SOLID	0.96	1.2D + 1.6W 60° Wind	50	55.22	0	0				1.7	Member

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	DAE - 3.5X3.5X0.3125	11.73	0.9D + 1.0E	36	113.43	4	2	127.24	278.40	134.33	10.3	Member
2	40	SAE - 3.5X3.5X0.3125	10.63	0.9D + 1.6W 90° Wind	36	54.17	1	1	43.49	37.52	23.70	44.9	Blck Shear
3	60	SAE - 3.5X3.5X0.3125	10.32	0.9D + 1.6W 90° Wind	36	45.25	4	2	127.24	139.20	67.17	22.8	Member
4	80	SAE - 3.5X3.5X0.3125	9.88	0.9D + 1.6W 90° Wind	36	54.17	1	1	43.49	37.52	23.70	41.7	Blck Shear

Force/Stress Tension Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
5	100	SAE - 3X3X0.3125	9.33	0.9D + 1.6W 90° Wind	36	44.05	1	1	43.49	33.17	19.04	49.0	Blck Shear
6	120	SAE - 3X3X0.3125	8.96	0.9D + 1.6W 90° Wind	36	46.60	1	1	31.81	29.91	19.47	46.0	Blck Shear
7	140	SAE - 3X3X0.1875	9.21	1.2D + 1.6W 90° Wind	36	28.68	1	1	31.81	17.94	11.68	78.9	Blck Shear
8	160	SAE - 3X3X0.1875	10.31	1.2D + 1.6W 90° Wind	36	28.68	1	1	31.81	17.94	11.68	88.3	Blck Shear
9	170	SAE - 2.5X2.5X0.1875	8.76	0.9D + 1.6W 60° Wind	36	22.55	1	1	31.81	17.94	10.66	82.2	Blck Shear
10	185	SOL - 1" SOLID	5.71	1.2D + 1.6W 90° Wind	50	35.34	0	0				16.2	Member
11	193	SOL - 1" SOLID	2.19	1.2D + 1.6W 90° Wind	50	35.34	0	0				6.2	Member

Seismic Section Forces

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E

Dead Load Factor	1.20	Sds 0.181	Ss 0.1700	Fa 1.6000	Ke 0.0000
Seismic Load Factor	1.00	Sd1 0.097	S1 0.0610	Fv 2.4000	Kg 0.0000
Seismic Importance Factor	1.00	SA 0.138	R 3.0000	Vs 3.4049	f1 1.4148

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	10177.	0.01	0.04	0.03	37.77
2	30.00	6523.0	0.05	0.07	0.04	48.66
3	50.00	6281.0	0.13	0.07	0.03	69.41
4	70.00	5593.7	0.25	0.06	0.02	87.43
5	90.00	5324.2	0.41	0.01	0.01	106.38
6	110.00	4353.4	0.61	-0.06	0.02	101.63
7	130.00	3485.4	0.86	-0.12	0.07	98.54
8	150.00	6451.1	1.14	-0.04	0.21	270.94
9	165.00	1315.2	1.38	0.25	0.41	83.87
10	177.50	7632.8	1.60	0.77	0.67	702.93
11	189.00	4474.7	1.81	1.60	1.00	570.04

Load Case: 0.9D + 1.0E

Dead Load Factor	0.90	Sds 0.181	Ss 0.1700	Fa 1.6000	Ke 0.0000
Seismic Load Factor	1.00	Sd1 0.097	S1 0.0610	Fv 2.4000	Kg 0.0000
Seismic Importance Factor	1.00	SA 0.138	R 3.0000	Vs 3.4049	f1 1.4148

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	10177.	0.01	0.04	0.03	37.77
2	30.00	6523.0	0.05	0.07	0.04	48.66
3	50.00	6281.0	0.13	0.07	0.03	69.41
4	70.00	5593.7	0.25	0.06	0.02	87.43
5	90.00	5324.2	0.41	0.01	0.01	106.38
6	110.00	4353.4	0.61	-0.06	0.02	101.63
7	130.00	3485.4	0.86	-0.12	0.07	98.54
8	150.00	6451.1	1.14	-0.04	0.21	270.94
9	165.00	1315.2	1.38	0.25	0.41	83.87
10	177.50	7632.8	1.60	0.77	0.67	702.93
11	189.00	4474.7	1.81	1.60	1.00	570.04

Support Forces Summary

Structure: CT01105-S-SBA

Code: EIA/TIA-222-G

9/28/2021

Site Name: Bozrah

Exposure: B



Height: 193.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 0.85

Topography: 1

Struct Class: II

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Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal Wind	1	0.00	426.80	-45.01	
	1a	16.25	-176.43	-10.74	
	1b	-16.25	-176.43	-10.74	
1.2D + 1.6W 60° Wind	1	-0.92	220.56	-22.86	
	1a	-20.26	220.54	10.64	
	1b	-34.29	-367.17	-19.80	
1.2D + 1.6W 90° Wind	1	-1.16	24.66	-2.10	
	1a	-33.47	366.18	18.71	
	1b	-30.03	-316.90	-16.61	
0.9D + 1.6W Normal Wind	1	0.00	419.94	-44.45	
	1a	16.70	-182.25	-11.02	
	1b	-16.70	-182.25	-11.02	
0.9D + 1.6W 60° Wind	1	-0.93	214.06	-22.32	
	1a	-19.80	214.04	10.35	
	1b	-34.74	-372.64	-20.06	
0.9D + 1.6W 90° Wind	1	-1.18	18.49	-1.57	
	1a	-33.00	359.42	18.43	
	1b	-30.48	-322.47	-16.86	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	178.76	-6.02	
	1a	11.68	-2.25	-7.23	
	1b	-11.68	-2.25	-7.23	
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.39	117.87	0.64	
	1a	0.36	117.87	-0.66	
	1b	-17.46	-61.48	-10.08	
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-0.46	58.09	7.14	
	1a	-3.71	161.91	1.88	
	1b	-16.10	-45.74	-9.02	
1.2D + 1.0E	1	0.00	42.16	22.54	
	1a	21.55	15.89	-12.34	
	1b	-21.55	15.89	-12.34	
0.9D + 1.0E	1	0.00	35.97	23.08	
	1a	22.01	9.74	-12.61	
	1b	-22.01	9.74	-12.61	
1.0D + 1.0W Normal Wind	1	0.00	103.65	-10.71	
	1a	2.21	-21.02	-1.57	
	1b	-2.21	-21.02	-1.57	
1.0D + 1.0W 60° Wind	1	-0.22	61.03	-6.10	
	1a	-5.39	61.02	2.86	
	1b	-5.95	-60.44	-3.44	
1.0D + 1.0W 90° Wind	1	-0.26	20.54	-1.78	
	1a	-8.14	91.14	4.55	
	1b	-5.07	-50.07	-2.78	

Max Reactions

Leg

Overturning

Max Uplift: -372.64 (kips)

Max Down: 426.80 (kips)

Max Shear: 45.01 (kips)

Moment: 7662.15 (ft-kips)

Total Down: 73.93 (kips)

Total Shear: 66.49 (kips)

Analysis Summary

Structure: CT01105-S-SBA	Code: EIA/TIA-222-G	9/28/2021
Site Name: Bozrah	Exposure: B	
Height: 193.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 20



Max Reactions

	Leg	Overturning
Max Uplift:	-372.64 (kips)	Moment: 7662.15 (ft-kips)
Max Down:	426.80 (kips)	Total Down: 73.93 (kips)
Max Shear:	45.01 (kips)	Total Shear: 66.49 (kips)

Anchor Bolts

Bolt Size (in.): 2.00	Number Bolts: 6
Yield Strength (Ksi): 105.00	Tensile Strength (Ksi): 150.00
Detail Type: A	

Interaction Ratio: 0.23

Max Usages

Max Leg: 76.4% (1.2D + 1.6W Normal Wind - Sect 7)
 Max Diag: 89.5% (1.2D + 1.6W Normal Wind - Sect 9)
 Max Horiz: 6.2% (1.2D + 1.6W Normal Wind - Sect 11)

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.0E - Normal To Face	30.00	0.0052	-0.0002	0.0131
	100.00	0.0235	0.0008	0.0288
	160.00	0.0718	0.0016	0.0671
	175.17	0.0918	0.0015	0.0798
	182.17	0.1016	0.0012	0.0745
	190.17	0.1135	0.0010	0.0814
0.9D + 1.6W 105 mph Wind at 60° From Face	30.00	0.0421	0.0068	0.1578
	100.00	0.4680	0.0218	0.5598
	160.00	1.3482	0.0389	1.1132
	175.17	1.6609	0.0396	1.2409
	182.17	1.8120	0.0395	1.1889
	190.17	1.9898	0.0395	1.2508
0.9D + 1.6W 105 mph Wind at 90° From Face	30.00	0.0418	-0.0077	0.1589
	100.00	0.4694	-0.0237	0.5616
	160.00	1.3525	-0.0406	1.1189
	175.17	1.6669	-0.0411	1.2420
	182.17	1.8182	-0.0410	1.1924
	190.17	1.9965	-0.0410	1.2528
0.9D + 1.6W 105 mph Wind at Normal To Face	30.00	0.0435	0.0069	0.1623
	100.00	0.4782	0.0217	0.5708
	160.00	1.3716	0.0381	1.1278
	175.17	1.6881	0.0380	1.2533
	182.17	1.8405	0.0380	1.2022
	190.17	2.0204	0.0379	1.2632

1.0D + 1.0W 60 mph Wind at 60° From Face	30.00	0.0086	0.0014	0.0327
	100.00	0.0965	0.0045	0.1153
	160.00	0.2773	0.0079	0.2287
	175.17	0.3418	0.0075	0.2552
	182.17	0.3728	0.0068	0.2440
	190.17	0.4093	0.0064	0.2570

1.0D + 1.0W 60 mph Wind at 90° From Face	30.00	0.0088	-0.0016	0.0330
	100.00	0.0972	-0.0049	0.1160
	160.00	0.2793	-0.0083	0.2301
	175.17	0.3435	-0.0080	0.2557
	182.17	0.3745	-0.0075	0.2451
	190.17	0.4112	-0.0072	0.2577

1.0D + 1.0W 60 mph Wind at Normal To Face	30.00	0.0092	0.0014	0.0337
	100.00	0.0991	0.0045	0.1179
	160.00	0.2835	0.0078	0.2321
	175.17	0.3480	0.0074	0.2573
	182.17	0.3794	0.0070	0.2474
	190.17	0.4164	0.0066	0.2598

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	30.00	0.0146	0.0021	0.0522
	100.00	0.1421	0.0066	0.1663
	160.00	0.3967	0.0113	0.3179
	175.17	0.4864	0.0112	0.3524
	182.17	0.5291	0.0108	0.3373
	190.17	0.5793	0.0106	0.3537

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	30.00	0.0143	-0.0024	0.0519
	100.00	0.1420	-0.0074	0.1671
	160.00	0.3982	-0.0124	0.3189
	175.17	0.4872	-0.0123	0.3522
	182.17	0.5299	-0.0121	0.3381
	190.17	0.5801	-0.0119	0.3538


1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	30.00	0.0134	0.0022	0.0510
	100.00	0.1420	0.0066	0.1681
	160.00	0.4004	0.0111	0.3192
	175.17	0.4891	0.0110	0.3519
	182.17	0.5319	0.0108	0.3392
	190.17	0.5823	0.0106	0.3542

1.2D + 1.0E - Normal To Face	30.00	0.0052	0.0002	0.0131
	100.00	0.0235	0.0008	0.0289
	160.00	0.0719	0.0016	0.0674
	175.17	0.0921	0.0015	0.0801
	182.17	0.1019	0.0012	0.0748
	190.17	0.1139	0.0010	0.0817

1.2D + 1.6W 105 mph Wind at 60° From Face	30.00	0.0421	0.0068	0.1580
	100.00	0.4689	0.0219	0.5612
	160.00	1.3518	0.0390	1.1171
	175.17	1.6658	0.0397	1.2457
	182.17	1.8174	0.0396	1.1932
	190.17	1.9960	0.0396	1.2556

1.2D + 1.6W 105 mph Wind at 90° From Face	30.00	0.0419	-0.0077	0.1592
	100.00	0.4704	-0.0237	0.5631
	160.00	1.3561	-0.0407	1.1228
	175.17	1.6718	-0.0412	1.2468
	182.17	1.8237	-0.0411	1.1967
	190.17	2.0026	-0.0411	1.2576

1.2D + 1.6W 105 mph Wind at Normal To Face	30.00	0.0436	0.0069	0.1625
	100.00	0.4792	0.0217	0.5723
	160.00	1.3755	0.0381	1.1317
	175.17	1.6930	0.0381	1.2578
	182.17	1.8460	0.0381	1.2066
	190.17	2.0266	0.0380	1.2679

	Mat Foundation Design for Self Supporting Tower			Date
				9/28/2021
	Customer Name:	SBA Communications Corp	EIA/TIA Standard:	EIA-222-G
	Site Name:		Structure Height (Ft.):	193
	Site Number:	CT01105-S-SBA	Engineer Name:	T. Alajaj
Engr. Number:	116487	Engineer Login ID:		

Foundation Info Obtained from:

Analysis or Design?

Number of Tower Legs:

Base Reactions (Factored):

(1). Individual Leg:

Axial Load (Kips):	426.8	Uplift Force (Kips):	372.6
Shear Force (Kips):	45.0		

(2). Tower Base:

Total Vertical Load (Kips):	73.9	Total Shear Force (Kips):	66.5
Moment (Kips-ft):	7662.1		

Foundation Geometries:

Leg distance (Center-to-Center ft.):	22.0	Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	Round 3.0	Pier Height A. G. (ft.):	0.00
Tower center to mat center (ft):	3.17	Depth of Base BG (ft.):	5.0
Length of Pad (ft.):	32.5	Width of Pad (ft.):	32.5
Thickness of Pad (ft):	4.99		

Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi):	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	12	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

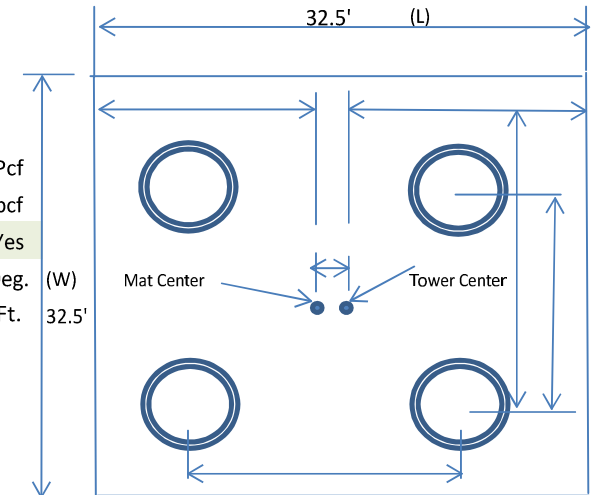
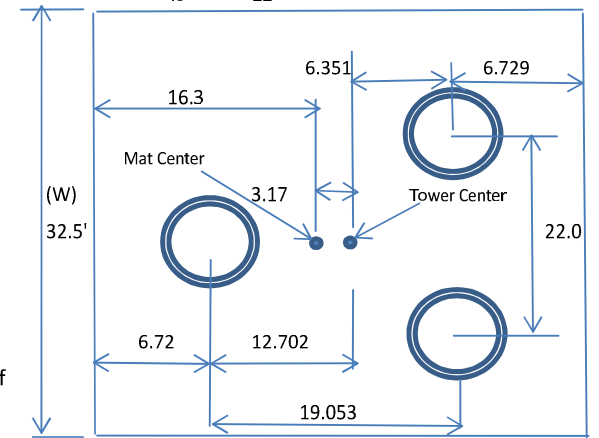
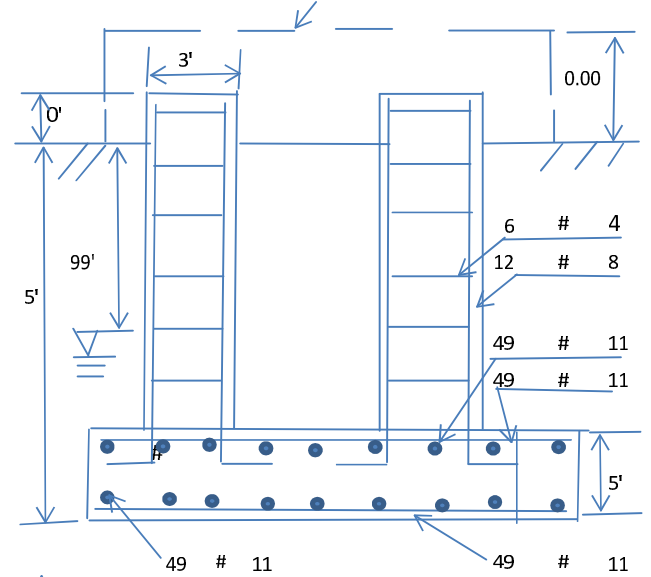
Qty. of Rebar in Pad (L):	49	Qty. of Rebar in Pad (W):	49
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Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	49	Qty. of Rebar in Pad (W):	49
---------------------------	----	---------------------------	----

Soil Design Parameters:

Soil Unit Weight (pcf):	100.0	Soil Buoyant Weight:	50.0	Pcf
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	40000	Consider ties in concrete shear strength:	Yes	
Consider Soil Lateral Resistance ?	Yes	Enter soil C (psf) or Phi (deg.):	30.0	Deg. (W)
		Depth to ignor lateral resistance	1.0	Ft. 32.5'



Apply 1.35 for e/w per G/H:

Foundation Analysis and Design: Uplift Strength Reduction Factor:

Total Dry Soil Volume (cu. Ft.): 10.35
 Total Buoyant Soil Volume (cu. Ft.):
 Total Effective Soil Weight (Kips):
 Total Dry Concrete Volume (cu. Ft.): 5271.01
 Total Buoyant Concrete Volume (cu. Ft.):
 Total Effective Concrete Weight (Kips): 790.65

Compression Strength Reduction Factor:

Total Dry Soil Weight (Kips):
 Total Buoyant Soil Weight (Kips):
 Weight from the Concrete Block at Top (K):
 Total Dry Concrete Weight (Kips):
 Total Buoyant Concrete Weight (Kips):
 Total Vertical Load on Base (Kips):

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):
 Allowable Foundation Overturning Resistance (kips-ft.):
 Factor of Safety Against Overturning (O. R. Moment/Design Moment):

< Allowable Factored Soil Bearing (psf): 30000
 Design Factored Momont (kips-ft):

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):
 Strength reduction factor (Axial compression):

Strength reduction factor (Shear):
 Wind Load Factor on Concrete Design:

ad
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):
 Calculated Moment Capacity (Mn,Kips-Ft):
 Calculated Shear Capacity (Kips):
 Calculated Tension Capacity (Tn, Kips):
 Calculated Compression Capacity (Pn, Kips):
 Moment & Tension Strength Combination:
 Pier Reinforcement Ratio:

Tie / Stirrup Area (sq. in./each):
 > Design Factored Moment (Mu, Kips-Ft)
 > Design Factored Shear (Kips):
 > Design Factored Tension (Tu Kips):
 > Design Factored Axial Load (Pu Kips):
 OK! Check Tie Spacing (Design/Req'd):
 Reinforcement Ratio is satisfied per ACI

(2).Concrete Pad:

One-Way Design Shear Capacity (L or W Direction, Kips):
 One-Way Design Shear Capacity (Diagonal Dir., Kips):
 Lower Steel Pad Reinforcement Ratio (L or W-Direct.):
 Lower Steel Pad Moment Capacity (L or W-Dir. Kips-ft):
 Lower Steel Pad Moment Capacity (Dia. Direction,K-ft):
 Upper Steel Pad Reinforcement Ratio (L or W -Direction):
 Upper Steel Pad Moment Capacity (L or W-Dir., Kips-ft):
 Upper Steel Pad Moment Capacity (Dia. Direction, K-ft):
 Punching Failure Capacity (Kips):

One-Way Factored Shear (L/W-Dir Kips)
 One-Way Factored Shear (Dia. Dir, Kips)
 Lower Steel Reinf. Ratio (Dia. Dir.):
 Moment at Bottom (L-Direct. K-Ft):
 Moment at Bottom (Dia. Dir. K-Ft):
 Upper Steel Reinf. Ratio (Dia. Dir.):
 Moment at the top (L-Dir Kips-Ft):
 Moment at the top (Dia. Dir., K-Ft):
 Punch. Failure Factored Shear (K):



GPD Engineering And Architecture Professional Corporation
 520 South Main Street, Suite 2531
 Akron, OH 44311

Maser Consulting Contact:
 Peter.albano@colliersengineering.com
 (856)371-9457

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10081643
 GPD Project #: 2021740.467314.02
 Maser Consulting Project #: 20777639

July 1, 2021

Site Information

Site ID: 467314-VZW / Bozrah East
 Site Name: Bozrah East CT
 Carrier Name: Verizon Wireless
 Address: 131 GIFFORD LANE
 BOZRAH, Connecticut 6334, New London County
 Latitude: 41.552222°
 Longitude: -72.151111°

Structure Information

Tower Type: 190-Ft Self Support
 Mount Type: 12.00-Ft T-Frame

FUZE ID # 16244580

Analysis Results

T-Frame: 96.2% 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 #: 30026



7/1/2021

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: 323458, dated 1/04/2021
Mount Mapping	Hudson Design Group, LLC Site ID: 467314, dated 2/25/2021
Previous Mount Analysis Report	GPD Project #: 2021740.467314.01, dated 6/22/2021
Proposed Mount Modification Design	GPD Project #: 2021740.467314.02 Rev. 0, dated 7/1/2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 123 mph
	Ice Wind Speed (3-sec. Gust): 50 mph
Desi	gn Ice Thickness: 1.00 in
	Risk Category: II
	Exposure Category: B
Topo	graphic Category: 1
Topo	graphic Feature Considered: N/A
Topo	graphic Method: N/A
	Ground Elevation Factor, K_e : 0.984
Seismic Parameters:	S_s : 0.197
S	1: 0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph
	Maintenance Live Load, L_v : 250 lbs.
	Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17.0.2)

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
160.1	160.1	3	Andrew	LNx-6514DS-VTM	Retained
		2	Raycap	RVZDC-6627-PF-48*	
		6	Andrew	SBNHH-1D65B	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

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

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to GPD and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation and field observations. 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 GPD, 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 ASTM A307, SAE J429 Gr 5
 - 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 Pipe	47.1 %	Pass
Standoff Vertical	7.9 %	Pass
Standoff Diagonal	8.2 %	Pass
Rear Standoff Pipe	25.3 %	Pass
Rear Face Standoff	29.6 %	Pass
Tower Connection	22.5 %	Pass
Face Horizontal	70.1 %	Pass
Face Vertical	13.3 %	Pass
Face Vertical End	48.2 %	Pass
Face Diagonal	96.2 %	Pass
Tie Back	11.7 %	Pass
Mount Pipe	17.0 %	Pass
Proposed Mount Pipe	13.3 %	Pass
Reinforcement Angle	6.4 %	Pass
Reinforcement Tieback	1.4 %	Pass
Mount Connection	10.7 %	Pass

Structure Rating – (Controlling Utilization of all Components)	96.2%
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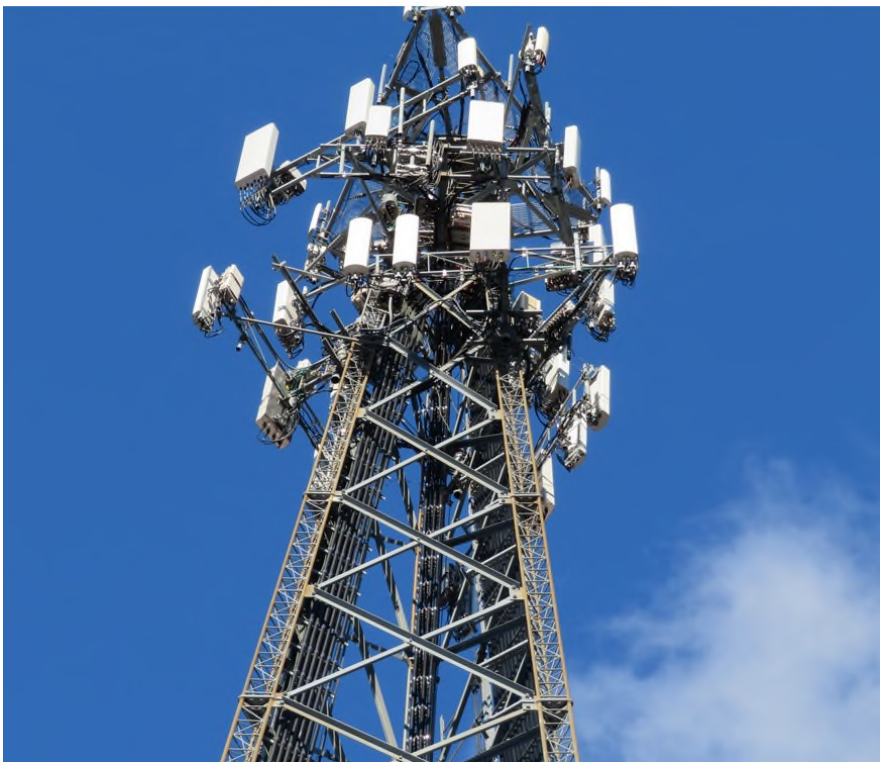
Recommendation:

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



Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector		Sector B																				
Sector A:	Deg	Leg A:	Deg	Ant																				
Sector B:	Deg	Leg B:	Deg	Ant _{1b}																				
Sector C:	Deg	Leg C:	Deg	Ant _{1c}																				
Sector D:	Deg	Leg D:	Deg	Ant																				
Climbing Facility Information				Ant _{2b}																				
Location:	Deg	Sector C		Ant _{2c}																				
Climbing Facility	Corrosion Type:	Good condition.		Ant _{3b}																				
	Access:	Climbing path was unobstructed.		Ant _{3c}																				
	Condition:	Good condition.		Ant																				
				Ant _{4b}																				
				Ant _{4c}																				
				Ant																				
				Ant _{5b}																				
				Ant _{5c}																				
				Ant on Standoff																				
				Ant on Standoff																				
				Ant on Tower																				
				Ant on Tower																				
								Sector C																
				Ant																				
				Ant _{1b}																				
				Ant _{1c}																				
				Ant																				
				Ant _{2b}																				
				Ant _{2c}																				
				Ant																				
				Ant _{3b}																				
				Ant _{3c}																				
				Ant																				
				Ant _{4b}																				
				Ant _{4c}																				
				Ant																				
				Ant _{5b}																				
				Ant _{5c}																				
				Ant on Standoff																				
				Ant on Standoff																				
				Ant on Tower																				
				Ant on Tower																				
				Sector D																				
				Ant																				
				Ant _{1b}																				
				Ant _{1c}																				
				Ant																				
				Ant _{2b}																				
				Ant _{2c}																				
				Ant																				
				Ant _{3b}																				
				Ant _{3c}																				
				Ant																				
				Ant _{4b}																				
				Ant _{4c}																				
				Ant																				
				Ant _{5b}																				
				Ant _{5c}																				
				Ant on Standoff																				
				Ant on Standoff																				
				Ant on Tower																				
				Ant on Tower																				

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

Mapping Notes

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

Standard Conditions

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

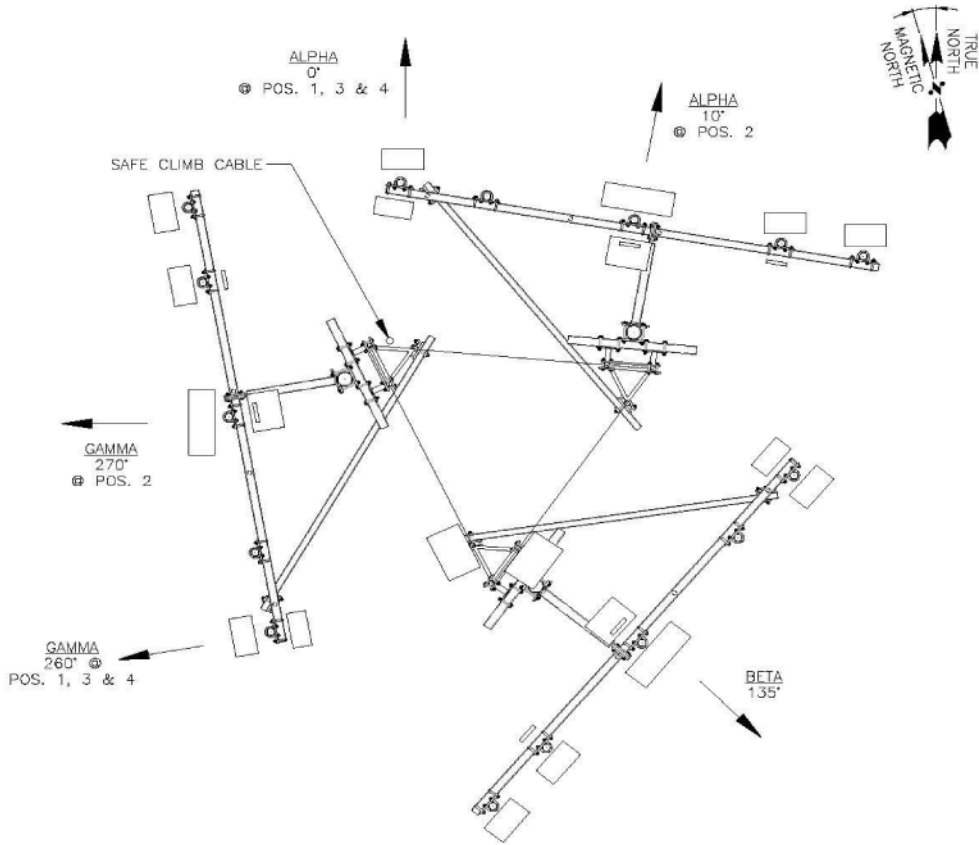


Antenna Mount Mapping Form (PATENT PENDING)

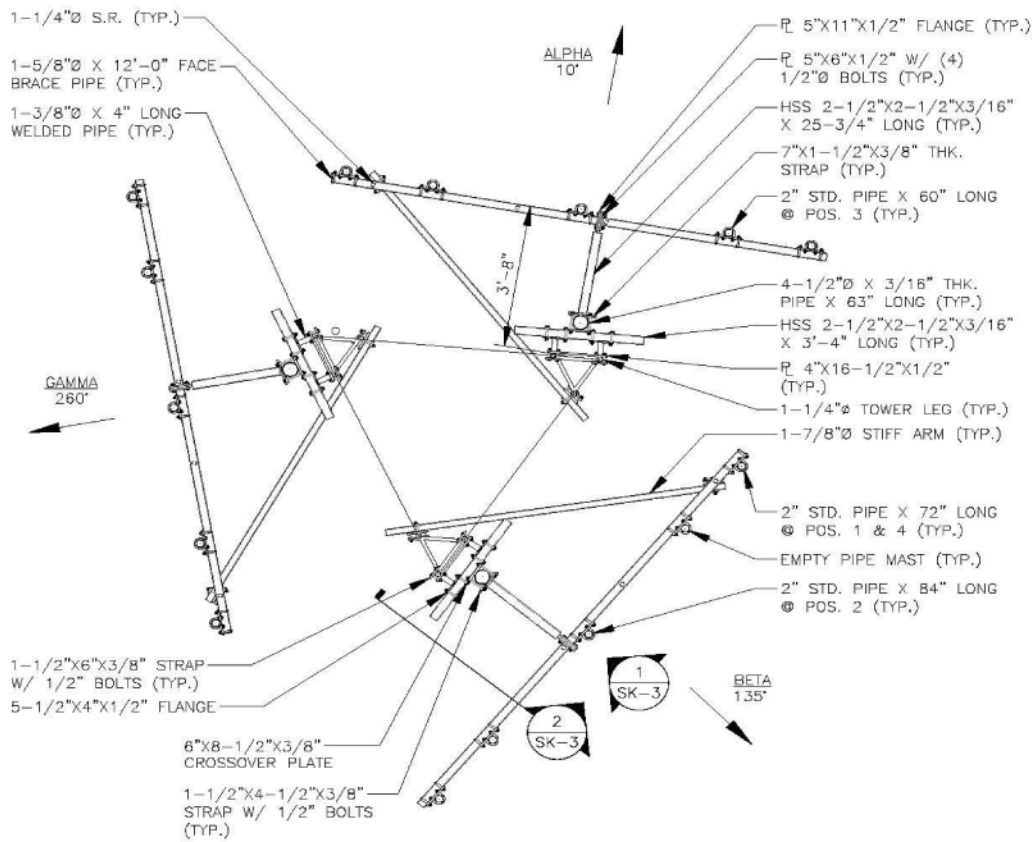
Tower Owner:	SBA TOWERS	Mapping Date:	2.25.2021
Site Name:	BOZRAH EAST CT	Tower Type:	Self Support
Site Number or ID:	467314	Tower Height (Ft.):	190
Mapping Contractor:	HUDSON DESIGN GROUP, LLC	Mount Elevation (Ft.):	160.5

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

Please Insert Sketches of the Antenna Mount



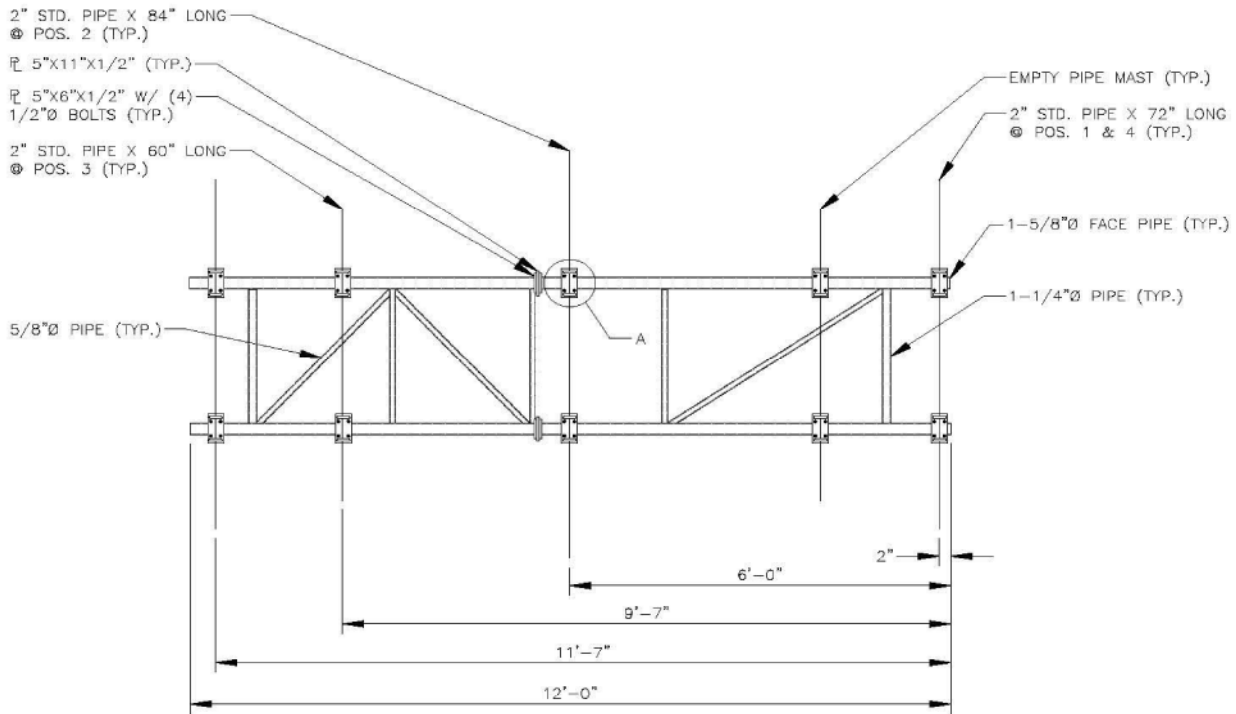
ANTENNA PLAN 1
 SCALE: N.T.S. SK-1



MOUNT PLAN
SCALE: N.T.S.



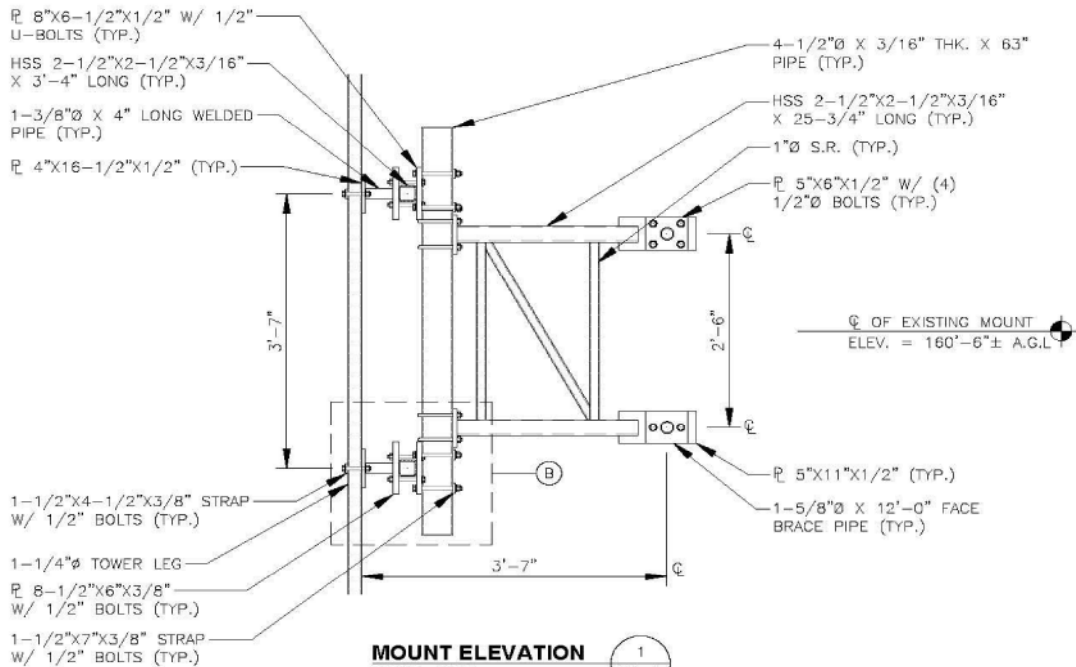
Please Insert Sketches of the Antenna Mount, cont'd



FRONT ELEVATION

SCALE: N.T.S.

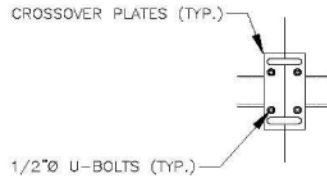
1
SK-3



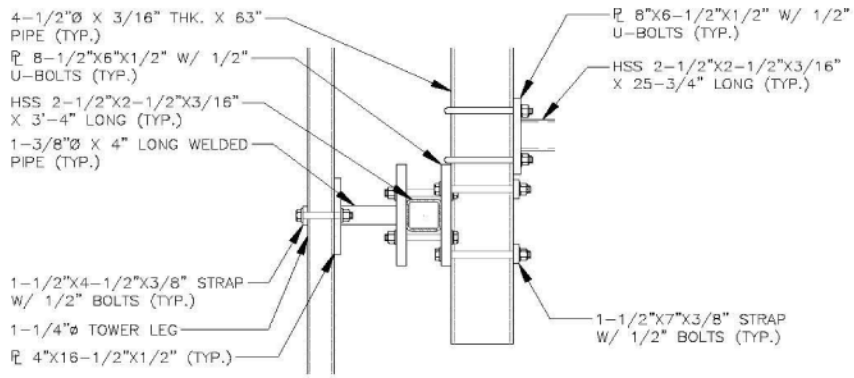
MOUNT ELEVATION

SCALE: N.T.S.

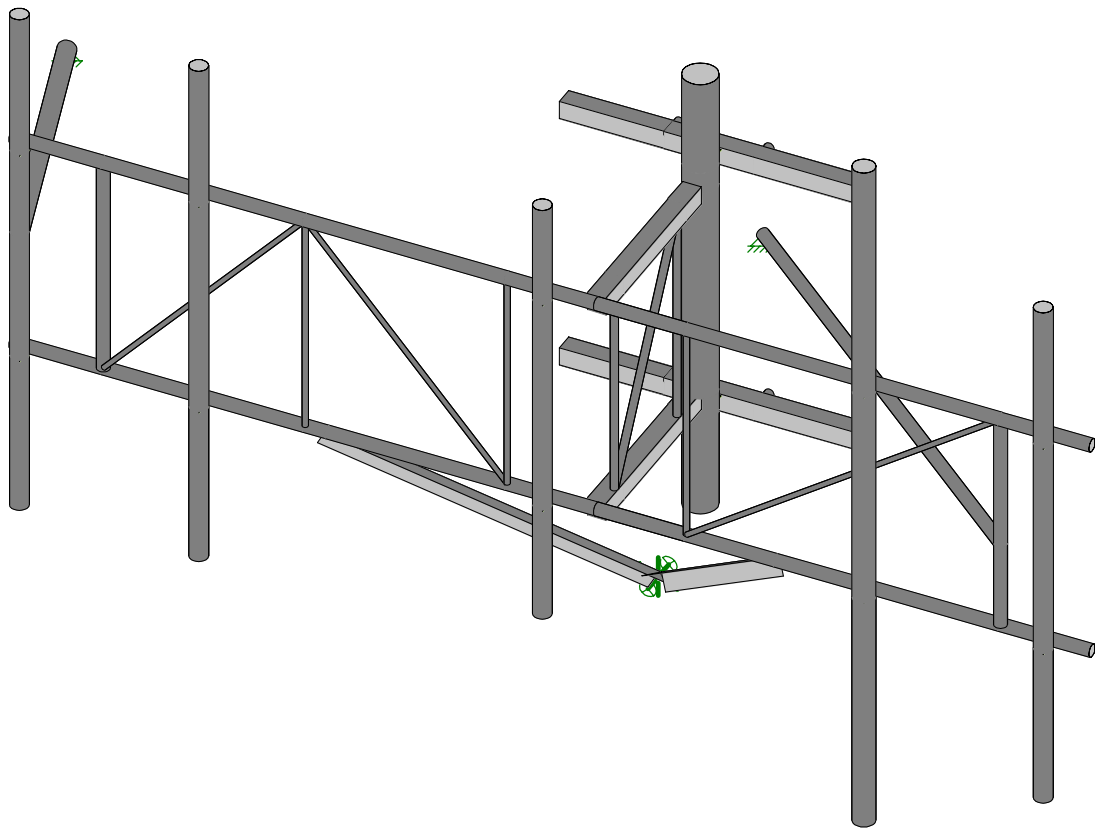
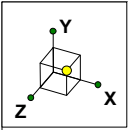
1
SK-4

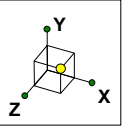


DETAIL A

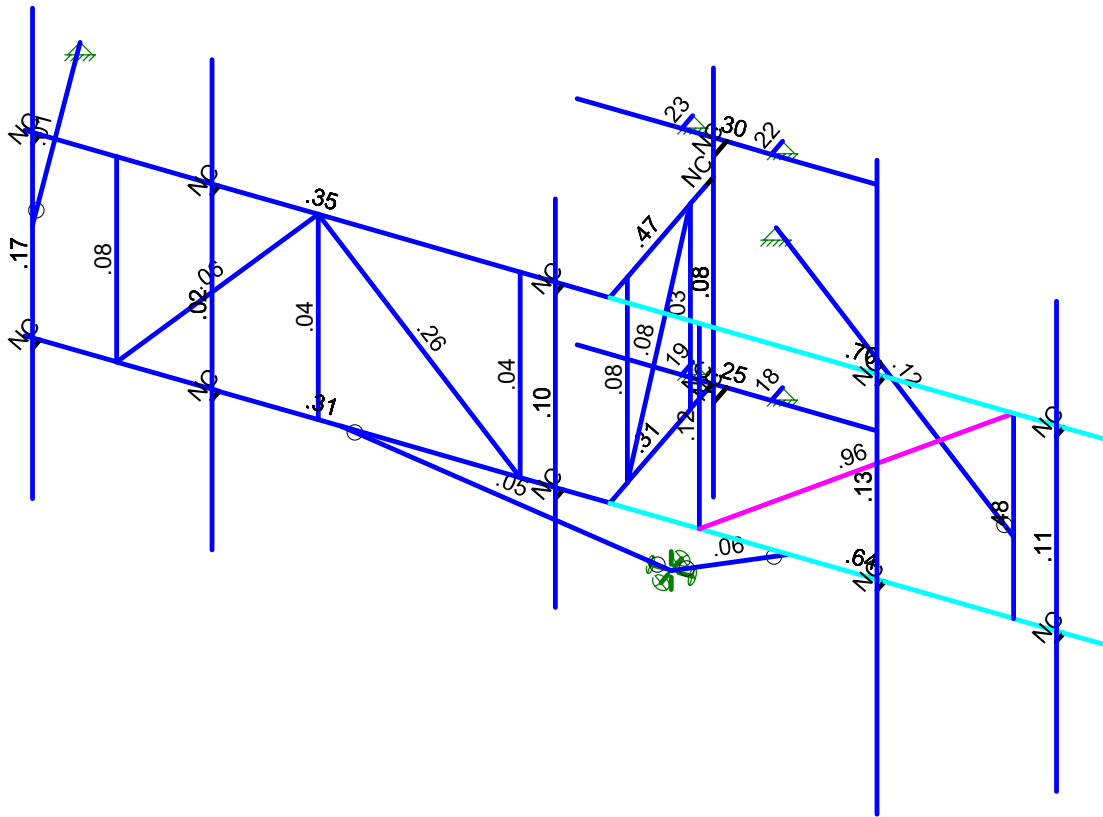


DETAIL B

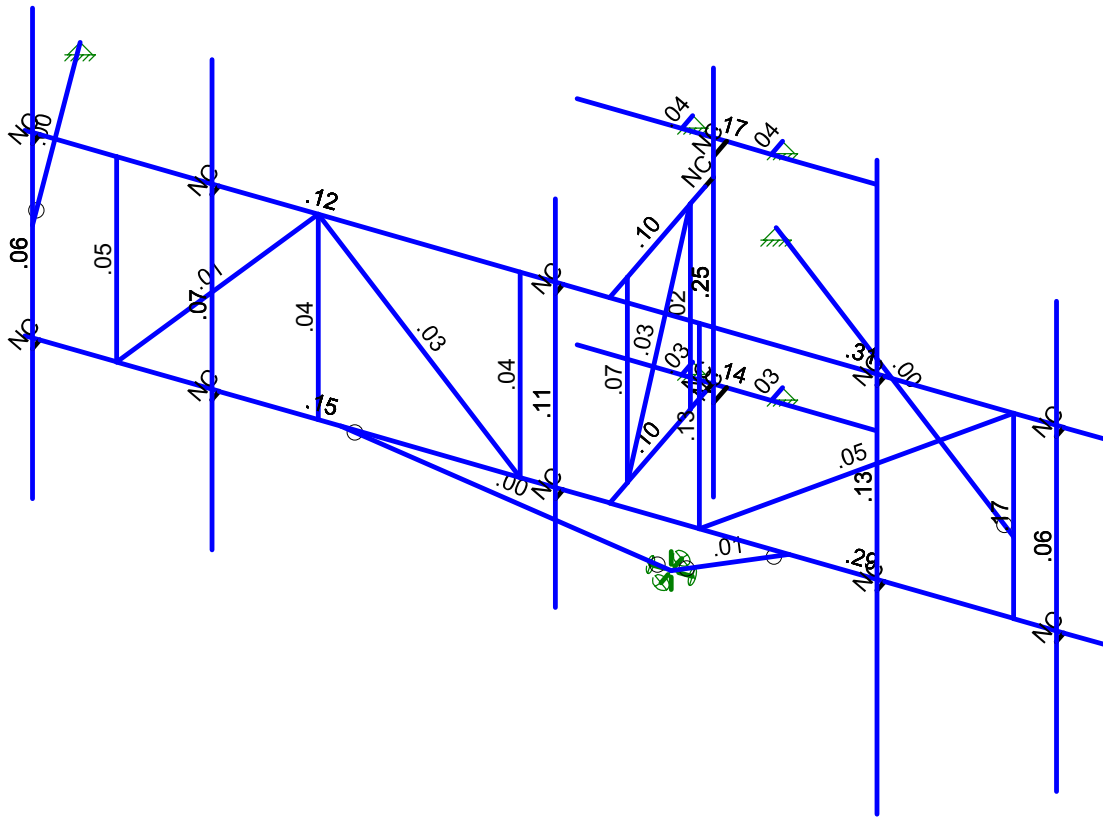
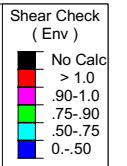
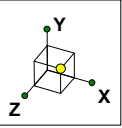




Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
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. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

July 1, 2021
 4:59 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					36			
2	Antenna Di	None					36			
3	Antenna Wo (0 Deg)	None					36			
4	Antenna Wo (30 Deg)	None					36			
5	Antenna Wo (60 Deg)	None					36			
6	Antenna Wo (90 Deg)	None					36			
7	Antenna Wo (120 Deg)	None					36			
8	Antenna Wo (150 Deg)	None					36			
9	Antenna Wo (180 Deg)	None					36			
10	Antenna Wo (210 Deg)	None					36			
11	Antenna Wo (240 Deg)	None					36			
12	Antenna Wo (270 Deg)	None					36			
13	Antenna Wo (300 Deg)	None					36			
14	Antenna Wo (330 Deg)	None					36			
15	Antenna Wi (0 Deg)	None					36			
16	Antenna Wi (30 Deg)	None					36			
17	Antenna Wi (60 Deg)	None					36			
18	Antenna Wi (90 Deg)	None					36			
19	Antenna Wi (120 Deg)	None					36			
20	Antenna Wi (150 Deg)	None					36			
21	Antenna Wi (180 Deg)	None					36			
22	Antenna Wi (210 Deg)	None					36			
23	Antenna Wi (240 Deg)	None					36			
24	Antenna Wi (270 Deg)	None					36			
25	Antenna Wi (300 Deg)	None					36			
26	Antenna Wi (330 Deg)	None					36			
27	Antenna Wm (0 Deg)	None					36			
28	Antenna Wm (30 Deg)	None					36			
29	Antenna Wm (60 Deg)	None					36			
30	Antenna Wm (90 Deg)	None					36			
31	Antenna Wm (120 Deg)	None					36			
32	Antenna Wm (150 Deg)	None					36			
33	Antenna Wm (180 Deg)	None					36			
34	Antenna Wm (210 Deg)	None					36			
35	Antenna Wm (240 Deg)	None					36			
36	Antenna Wm (270 Deg)	None					36			
37	Antenna Wm (300 Deg)	None					36			
38	Antenna Wm (330 Deg)	None					36			
39	Structure D	None		-1						
40	Structure Di	None						33		
41	Structure Wo (0 Deg)	None						66		
42	Structure Wo (30 Deg)	None						66		
43	Structure Wo (60 Deg)	None						66		
44	Structure Wo (90 Deg)	None						66		
45	Structure Wo (120 Deg)	None						66		
46	Structure Wo (150 Deg)	None						66		
47	Structure Wo (180 Deg)	None						66		
48	Structure Wo (210 Deg)	None						66		
49	Structure Wo (240 Deg)	None						66		
50	Structure Wo (270 Deg)	None						66		
51	Structure Wo (300 Deg)	None						66		
52	Structure Wo (330 Deg)	None						66		
53	Structure Wi (0 Deg)	None						66		
54	Structure Wi (30 Deg)	None						66		
55	Structure Wi (60 Deg)	None						66		
56	Structure Wi (90 Deg)	None						66		



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	N11	2.619256	0	2.029929	0
2	N13	2.619256	0	-0.114955	0
3	N14	2.619256	0	1.635045	0
4	N15	2.619256	0	0.218378	0
5	N31	2.619256	-2.513333	2.029929	0
6	N32	2.619256	-2.513333	-0.489955	0
7	N33	2.619256	-2.513333	-0.114955	0
8	N34	2.619256	-2.513333	1.635045	0
9	N35	2.619256	-2.513333	0.218378	0
10	N53	2.619256	0	-0.302455	0
11	N54	2.619256	1.333333	-0.302455	0
12	N55	2.619256	-3.916667	-0.302455	0
13	N56	2.619256	-2.513333	-0.302455	0
14	N28	2.619256	.25	-0.302455	0
15	N29	2.619256	-2.763333	-0.302455	0
16	N30	2.619256	.25	-0.594122	0



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-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	N31A	2.619256	-2.763333	-0.594122	0	
18	N32A	0.952589	.25	-0.594122	0	
19	N33A	0.952589	-2.763333	-0.594122	0	
20	N34A	4.285923	.25	-0.594122	0	
21	N35A	4.285923	-2.763333	-0.594122	0	
22	N36A	2.119256	.25	-0.594122	0	
23	N37A	2.119256	-2.763333	-0.594122	0	
24	N38A	3.119256	.25	-0.594122	0	
25	N39A	3.119256	-2.763333	-0.594122	0	
26	N40A	2.119256	.25	-0.844122	0	
27	N41	2.119256	-2.763333	-0.844122	0	
28	N42	3.119256	.25	-0.844122	0	
29	N43	3.119256	-2.763333	-0.844122	0	
30	N45	-3.901577	0	2.029929	0	
31	N46	1.619256	0	2.029929	0	
32	N47	-0.630744	0	2.029929	0	
33	N48	-2.880744	0	2.029929	0	
34	N50	-3.901577	-2.513333	2.029929	0	
35	N51	1.619256	-2.513333	2.029929	0	
36	N52	-0.630744	-2.513333	2.029929	0	
37	N53A	-2.880744	-2.513333	2.029929	0	
38	N55A	8.142048	0	2.029929	0	
39	N56A	7.121214	0	2.029929	0	
40	N57	3.619255	0	2.029929	0	
41	N59	8.142048	-2.513333	2.029929	0	
42	N60	7.121214	-2.513333	2.029929	0	
43	N61	3.619255	-2.513333	2.029929	0	
44	N46A	7.121214	-1.513333	2.029929	0	
45	N45A	2.619256	-1.513333	-1.710145	0	
46	N46B	7.681756	0	2.029929	0	
47	N47A	7.681756	-2.513333	2.029929	0	
48	N48A	7.681756	0	2.198054	0	
49	N49	7.681756	-2.513333	2.198054	0	
50	N50A	5.681756	0	2.029929	0	
51	N51A	5.681756	-2.513333	2.029929	0	
52	N52A	5.681756	0	2.198054	0	
53	N53B	5.681756	-2.513333	2.198054	0	
54	N54A	2.098423	0	2.029929	0	
55	N55B	2.098423	-2.513333	2.029929	0	
56	N56B	2.098423	0	2.198054	0	
57	N57A	2.098423	-2.513333	2.198054	0	
58	N58	-3.734911	0	2.029929	0	
59	N59A	-3.734911	-2.513333	2.029929	0	
60	N60A	-3.734911	0	2.198054	0	
61	N61A	-3.734911	-2.513333	2.198054	0	
62	N62	7.681756	1.653333	2.198054	0	
63	N63	-3.734911	1.653333	2.198054	0	
64	N64	7.681756	-4.346667	2.198054	0	
65	N65	-3.734911	-4.346667	2.198054	0	
66	N68	2.098423	1.153333	2.198054	0	
67	N69	2.098423	-3.846667	2.198054	0	
68	N68A	5.681756	2.75	2.198054	0	
69	N69A	5.681756	-5.25	2.198054	0	
70	N70	-1.734911	0	2.029929	0	
71	N71	-1.734911	-2.513333	2.029929	0	
72	N72	-1.734911	0	2.198054	0	
73	N73	-1.734911	-2.513333	2.198054	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N74	-1.734911	1.653333	2.198054	0	
75	N75	-1.734911	-4.346667	2.198054	0	
76	N76	2.119256	-5.013333	-0.364955	0	
77	N77	-0.380744	-2.513333	2.029929	0	
78	N78	4.619256	-2.513333	2.029929	0	
79	N79	-4.710744	-1.	-0.844122	0	
80	N81	-3.734911	-1	2.198054	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Desig..	A [in2]	Iy [i...]	Izz [i...]	J [in4]
1	Rear Standoff Pipe	PIPE 4.0	None	None	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
2	Standoff Pipe	HSS2.5X2.5X3	None	None	A500 Gr.B Rect	Typical	1.54	1.35	1.35	2.25
3	Standoff Vertical	SR 1	None	None	A36 Gr.36	Typical	.785	.049	.049	.098
4	Standoff Diagonal	SR 1	None	None	A36 Gr.36	Typical	.785	.049	.049	.098
5	Face Horizontal	PIPE 1.25	None	None	A53 Gr.B	Typical	.625	.184	.184	.368
6	Mount Pipe	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Tie Back	PIPE 1.25	None	None	A53 Gr.B	Typical	.625	.184	.184	.368
8	Face Vertical	SR 0.75	None	None	A36 Gr.36	Typical	.442	.016	.016	.031
9	Face Diagonal	SR 0.625	None	None	A36 Gr.36	Typical	.307	.007	.007	.015
10	Face Vertical End	PIPE 1.25	None	None	A53 Gr.B	Typical	.625	.184	.184	.368
11	Rear Face Standoff	HSS2.5X2.5X3	None	None	A500 Gr.B Rect	Typical	1.54	1.35	1.35	2.25
12	Tower Connection	SR 1.25	None	None	A36 Gr.36	Typical	1.227	.12	.12	.24
13	Proposed Mount Pipe	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
14	Reinforcement Angle	L2.5x2.5x3	None	None	A36 Gr.36	Typical	.901	.535	.535	.011
15	Reinforcement Tieback	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M6	N11	N13			Standoff Pipe	None	None	A500 Gr...	Typical
2	M12	N31	N33			Standoff Pipe	None	None	A500 Gr...	Typical
3	M18	N14	N34			Standoff Vertical	None	None	A36 Gr.36	Typical
4	M19	N15	N35			Standoff Vertical	None	None	A36 Gr.36	Typical
5	M20	N15	N34			Standoff Diagonal	None	None	A36 Gr.36	Typical
6	M30	N54	N55			Rear Standoff Pipe	None	None	A53 Gr.B	Typical
7	M31	N13	N53			RIGID	None	None	RIGID	Typical
8	M32	N33	N56			RIGID	None	None	RIGID	Typical
9	M19A	N29	N31A			RIGID	None	None	RIGID	Typical
10	M20A	N28	N30			RIGID	None	None	RIGID	Typical
11	M21	N34A	N32A			Rear Face Standoff	None	None	A500 Gr...	Typical
12	M22	N35A	N33A			Rear Face Standoff	None	None	A500 Gr...	Typical
13	M23	N37A	N41			Tower Connection	None	None	A36 Gr.36	Typical
14	M24	N39A	N43			Tower Connection	None	None	A36 Gr.36	Typical



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

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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...
15	M25A	N36A	N40A			Tower Connection	None	None	A36 Gr.36	Typical
16	M26A	N38A	N42			Tower Connection	None	None	A36 Gr.36	Typical
17	M29	N11	N45			Face Horizontal	None	None	A53 Gr.B	Typical
18	M30A	N31	N50			Face Horizontal	None	None	A53 Gr.B	Typical
19	M31A	N46	N51			Face Vertical	None	None	A36 Gr.36	Typical
20	M32A	N47	N52			Face Vertical	None	None	A36 Gr.36	Typical
21	M33	N48	N53A			Face Vertical End	None	None	A53 Gr.B	Typical
22	M34	N51	N47			Face Diagonal	None	None	A36 Gr.36	Typical
23	M35	N47	N53A			Face Diagonal	None	None	A36 Gr.36	Typical
24	M34A	N57	N61			Face Vertical	None	None	A36 Gr.36	Typical
25	M35A	N56A	N60			Face Vertical End	None	None	A53 Gr.B	Typical
26	M36	N56A	N61			Face Diagonal	None	None	A36 Gr.36	Typical
27	M37	N55A	N11			Face Horizontal	None	None	A53 Gr.B	Typical
28	M38	N59	N31			Face Horizontal	None	None	A53 Gr.B	Typical
29	M29A	N46A	N45A			Tie Back	None	None	A53 Gr.B	Typical
30	M30B	N46B	N48A			RIGID	None	None	RIGID	Typical
31	M31B	N47A	N49			RIGID	None	None	RIGID	Typical
32	M32B	N50A	N52A			RIGID	None	None	RIGID	Typical
33	M33A	N51A	N53B			RIGID	None	None	RIGID	Typical
34	M34B	N54A	N56B			RIGID	None	None	RIGID	Typical
35	M35B	N55B	N57A			RIGID	None	None	RIGID	Typical
36	M36A	N58	N60A			RIGID	None	None	RIGID	Typical
37	M37A	N59A	N61A			RIGID	None	None	RIGID	Typical
38	MP1A	N62	N64			Mount Pipe	None	None	A53 Gr.B	Typical
39	MP5A	N63	N65			Mount Pipe	None	None	A53 Gr.B	Typical
40	MP3A	N68	N69			Mount Pipe	None	None	A53 Gr.B	Typical
41	MP2A	N68A	N69A			Proposed Mount Pipe	None	None	A53 Gr.B	Typical
42	M42	N70	N72			RIGID	None	None	RIGID	Typical
43	M43	N71	N73			RIGID	None	None	RIGID	Typical
44	MP4A	N74	N75			Mount Pipe	None	None	A53 Gr.B	Typical
45	M45	N78	N76		180	Reinforcement Angle	None	None	A36 Gr.36	Typical
46	M46	N76	N77		180	Reinforcement Angle	None	None	A36 Gr.36	Typical
47	M47	N81	N79		180	Reinforcement Tieback	None	None	A53 Gr.B	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	M6						Yes	** NA **		None
2	M12						Yes	** NA **		None
3	M18						Yes	** NA **		None
4	M19						Yes	** NA **		None
5	M20						Yes	** NA **		None
6	M30						Yes	** NA **		None
7	M31						Yes	** NA **		None
8	M32						Yes	** NA **		None
9	M19A						Yes	** NA **		None
10	M20A						Yes	** NA **		None
11	M21						Yes	** NA **		None
12	M22						Yes	** NA **		None
13	M23						Yes	** NA **		None
14	M24						Yes	** NA **		None
15	M25A						Yes	** NA **		None
16	M26A						Yes	** NA **		None
17	M29						Yes	** NA **		None
18	M30A						Yes	** NA **		None
19	M31A						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...
20	M32A						Yes	** NA **			None
21	M33						Yes	** NA **			None
22	M34						Yes	** NA **			None
23	M35						Yes	** NA **			None
24	M34A						Yes	** NA **			None
25	M35A						Yes	** NA **			None
26	M36						Yes	** NA **			None
27	M37						Yes	** NA **			None
28	M38						Yes	** NA **			None
29	M29A	BenPIN					Yes	** NA **			None
30	M30B						Yes	** NA **			None
31	M31B						Yes	** NA **			None
32	M32B						Yes	** NA **			None
33	M33A						Yes	** NA **			None
34	M34B						Yes	** NA **			None
35	M35B						Yes	** NA **			None
36	M36A						Yes	** NA **			None
37	M37A						Yes	** NA **			None
38	MP1A						Yes	** NA **			None
39	MP5A						Yes	** NA **			None
40	MP3A						Yes	** NA **			None
41	MP2A						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	MP4A						Yes	** NA **			None
45	M45	BenPIN	BenPIN				Yes	** NA **			None
46	M46	BenPIN	BenPIN				Yes	** NA **			None
47	M47	BenPIN					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	Y	-16.55	1
2	MP5A	My	-.011	1
3	MP5A	Mz	0	1
4	MP5A	Y	-16.55	5.5
5	MP5A	My	-.011	5.5
6	MP5A	Mz	0	5.5
7	MP2A	Y	-20	1.5
8	MP2A	My	-.013	1.5
9	MP2A	Mz	-.013	1.5
10	MP2A	Y	-20	5.5
11	MP2A	My	-.013	5.5
12	MP2A	Mz	-.013	5.5
13	MP2A	Y	-20	1.5
14	MP2A	My	-.013	1.5
15	MP2A	Mz	.013	1.5
16	MP2A	Y	-20	5.5
17	MP2A	My	-.013	5.5
18	MP2A	Mz	.013	5.5
19	MP3A	Y	-43.55	1.5
20	MP3A	My	-.029	1.5
21	MP3A	Mz	0	1.5
22	MP3A	Y	-43.55	4.45
23	MP3A	My	-.029	4.45
24	MP3A	Mz	0	4.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
25	MP1A	Y	-42.2	.83
26	MP1A	My	.042	.83
27	MP1A	Mz	0	.83
28	MP1A	Y	-42.2	.83
29	MP1A	My	.042	.83
30	MP1A	Mz	0	.83
31	MP1A	Y	-35.15	3
32	MP1A	My	.035	3
33	MP1A	Mz	0	3
34	MP1A	Y	-35.15	3
35	MP1A	My	.035	3
36	MP1A	Mz	0	3

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	Y	-61.587	1
2	MP5A	My	-.041	1
3	MP5A	Mz	0	1
4	MP5A	Y	-61.587	5.5
5	MP5A	My	-.041	5.5
6	MP5A	Mz	0	5.5
7	MP2A	Y	-62.061	1.5
8	MP2A	My	-.041	1.5
9	MP2A	Mz	-.041	1.5
10	MP2A	Y	-62.061	5.5
11	MP2A	My	-.041	5.5
12	MP2A	Mz	-.041	5.5
13	MP2A	Y	-62.061	1.5
14	MP2A	My	-.041	1.5
15	MP2A	Mz	.041	1.5
16	MP2A	Y	-62.061	5.5
17	MP2A	My	-.041	5.5
18	MP2A	Mz	.041	5.5
19	MP3A	Y	-36.202	1.5
20	MP3A	My	-.024	1.5
21	MP3A	Mz	0	1.5
22	MP3A	Y	-36.202	4.45
23	MP3A	My	-.024	4.45
24	MP3A	Mz	0	4.45
25	MP1A	Y	-22.826	.83
26	MP1A	My	.023	.83
27	MP1A	Mz	0	.83
28	MP1A	Y	-22.826	.83
29	MP1A	My	.023	.83
30	MP1A	Mz	0	.83
31	MP1A	Y	-20.53	3
32	MP1A	My	.021	3
33	MP1A	Mz	0	3
34	MP1A	Y	-20.53	3
35	MP1A	My	.021	3
36	MP1A	Mz	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	0	1
2	MP5A	Z	-148.965	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP5A	Mx	0	1
4	MP5A	X	0	5.5
5	MP5A	Z	-148.965	5.5
6	MP5A	Mx	0	5.5
7	MP2A	X	0	1.5
8	MP2A	Z	-150.254	1.5
9	MP2A	Mx	.1	1.5
10	MP2A	X	0	5.5
11	MP2A	Z	-150.254	5.5
12	MP2A	Mx	.1	5.5
13	MP2A	X	0	1.5
14	MP2A	Z	-150.254	1.5
15	MP2A	Mx	-.1	1.5
16	MP2A	X	0	5.5
17	MP2A	Z	-150.254	5.5
18	MP2A	Mx	-.1	5.5
19	MP3A	X	0	1.5
20	MP3A	Z	-86.543	1.5
21	MP3A	Mx	0	1.5
22	MP3A	X	0	4.45
23	MP3A	Z	-86.543	4.45
24	MP3A	Mx	0	4.45
25	MP1A	X	0	.83
26	MP1A	Z	-34.433	.83
27	MP1A	Mx	0	.83
28	MP1A	X	0	.83
29	MP1A	Z	-34.433	.83
30	MP1A	Mx	0	.83
31	MP1A	X	0	3
32	MP1A	Z	-34.433	3
33	MP1A	Mx	0	3
34	MP1A	X	0	3
35	MP1A	Z	-34.433	3
36	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	X	68.157	1
2	MP5A	Z	-118.051	1
3	MP5A	Mx	-.045	1
4	MP5A	X	68.157	5.5
5	MP5A	Z	-118.051	5.5
6	MP5A	Mx	-.045	5.5
7	MP2A	X	68.766	1.5
8	MP2A	Z	-119.106	1.5
9	MP2A	Mx	.034	1.5
10	MP2A	X	68.766	5.5
11	MP2A	Z	-119.106	5.5
12	MP2A	Mx	.034	5.5
13	MP2A	X	68.766	1.5
14	MP2A	Z	-119.106	1.5
15	MP2A	Mx	-.125	1.5
16	MP2A	X	68.766	5.5
17	MP2A	Z	-119.106	5.5
18	MP2A	Mx	-.125	5.5
19	MP3A	X	36.689	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
20	MP3A	Z	-63.547	1.5
21	MP3A	Mx	-.024	1.5
22	MP3A	X	36.689	4.45
23	MP3A	Z	-63.547	4.45
24	MP3A	Mx	-.024	4.45
25	MP1A	X	15.79	.83
26	MP1A	Z	-27.348	.83
27	MP1A	Mx	.016	.83
28	MP1A	X	15.79	.83
29	MP1A	Z	-27.348	.83
30	MP1A	Mx	.016	.83
31	MP1A	X	15.243	3
32	MP1A	Z	-26.402	3
33	MP1A	Mx	.015	3
34	MP1A	X	15.243	3
35	MP1A	Z	-26.402	3
36	MP1A	Mx	.015	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	96.138	1
2	MP5A	Z	-55.505	1
3	MP5A	Mx	-.064	1
4	MP5A	X	96.138	5.5
5	MP5A	Z	-55.505	5.5
6	MP5A	Mx	-.064	5.5
7	MP2A	X	97.07	1.5
8	MP2A	Z	-56.043	1.5
9	MP2A	Mx	-.027	1.5
10	MP2A	X	97.07	5.5
11	MP2A	Z	-56.043	5.5
12	MP2A	Mx	-.027	5.5
13	MP2A	X	97.07	1.5
14	MP2A	Z	-56.043	1.5
15	MP2A	Mx	-.102	1.5
16	MP2A	X	97.07	5.5
17	MP2A	Z	-56.043	5.5
18	MP2A	Mx	-.102	5.5
19	MP3A	X	40.744	1.5
20	MP3A	Z	-23.524	1.5
21	MP3A	Mx	-.027	1.5
22	MP3A	X	40.744	4.45
23	MP3A	Z	-23.524	4.45
24	MP3A	Mx	-.027	4.45
25	MP1A	X	22.405	.83
26	MP1A	Z	-12.935	.83
27	MP1A	Mx	.022	.83
28	MP1A	X	22.405	.83
29	MP1A	Z	-12.935	.83
30	MP1A	Mx	.022	.83
31	MP1A	X	19.564	3
32	MP1A	Z	-11.296	3
33	MP1A	Mx	.02	3
34	MP1A	X	19.564	3
35	MP1A	Z	-11.296	3
36	MP1A	Mx	.02	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	98.359	1
2	MP5A	Z	0	1
3	MP5A	Mx	-.066	1
4	MP5A	X	98.359	5.5
5	MP5A	Z	0	5.5
6	MP5A	Mx	-.066	5.5
7	MP2A	X	99.364	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.066	1.5
10	MP2A	X	99.364	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	-.066	5.5
13	MP2A	X	99.364	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	-.066	1.5
16	MP2A	X	99.364	5.5
17	MP2A	Z	0	5.5
18	MP2A	Mx	-.066	5.5
19	MP3A	X	33.882	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-.023	1.5
22	MP3A	X	33.882	4.45
23	MP3A	Z	0	4.45
24	MP3A	Mx	-.023	4.45
25	MP1A	X	23.017	.83
26	MP1A	Z	0	.83
27	MP1A	Mx	.023	.83
28	MP1A	X	23.017	.83
29	MP1A	Z	0	.83
30	MP1A	Mx	.023	.83
31	MP1A	X	18.644	3
32	MP1A	Z	0	3
33	MP1A	Mx	.019	3
34	MP1A	X	18.644	3
35	MP1A	Z	0	3
36	MP1A	Mx	.019	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	96.138	1
2	MP5A	Z	55.505	1
3	MP5A	Mx	-.064	1
4	MP5A	X	96.138	5.5
5	MP5A	Z	55.505	5.5
6	MP5A	Mx	-.064	5.5
7	MP2A	X	97.07	1.5
8	MP2A	Z	56.043	1.5
9	MP2A	Mx	-.102	1.5
10	MP2A	X	97.07	5.5
11	MP2A	Z	56.043	5.5
12	MP2A	Mx	-.102	5.5
13	MP2A	X	97.07	1.5
14	MP2A	Z	56.043	1.5
15	MP2A	Mx	-.027	1.5
16	MP2A	X	97.07	5.5
17	MP2A	Z	56.043	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP2A	Mx	-.027	5.5
19	MP3A	X	40.744	1.5
20	MP3A	Z	23.524	1.5
21	MP3A	Mx	-.027	1.5
22	MP3A	X	40.744	4.45
23	MP3A	Z	23.524	4.45
24	MP3A	Mx	-.027	4.45
25	MP1A	X	22.405	.83
26	MP1A	Z	12.935	.83
27	MP1A	Mx	.022	.83
28	MP1A	X	22.405	.83
29	MP1A	Z	12.935	.83
30	MP1A	Mx	.022	.83
31	MP1A	X	19.564	3
32	MP1A	Z	11.296	3
33	MP1A	Mx	.02	3
34	MP1A	X	19.564	3
35	MP1A	Z	11.296	3
36	MP1A	Mx	.02	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	X	68.157	1
2	MP5A	Z	118.051	1
3	MP5A	Mx	-.045	1
4	MP5A	X	68.157	5.5
5	MP5A	Z	118.051	5.5
6	MP5A	Mx	-.045	5.5
7	MP2A	X	68.766	1.5
8	MP2A	Z	119.106	1.5
9	MP2A	Mx	-.125	1.5
10	MP2A	X	68.766	5.5
11	MP2A	Z	119.106	5.5
12	MP2A	Mx	-.125	5.5
13	MP2A	X	68.766	1.5
14	MP2A	Z	119.106	1.5
15	MP2A	Mx	.034	1.5
16	MP2A	X	68.766	5.5
17	MP2A	Z	119.106	5.5
18	MP2A	Mx	.034	5.5
19	MP3A	X	36.689	1.5
20	MP3A	Z	63.547	1.5
21	MP3A	Mx	-.024	1.5
22	MP3A	X	36.689	4.45
23	MP3A	Z	63.547	4.45
24	MP3A	Mx	-.024	4.45
25	MP1A	X	15.79	.83
26	MP1A	Z	27.348	.83
27	MP1A	Mx	.016	.83
28	MP1A	X	15.79	.83
29	MP1A	Z	27.348	.83
30	MP1A	Mx	.016	.83
31	MP1A	X	15.243	3
32	MP1A	Z	26.402	3
33	MP1A	Mx	.015	3
34	MP1A	X	15.243	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
35	MP1A	Z	26.402	3
36	MP1A	Mx	.015	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	0	1
2	MP5A	Z	148.965	1
3	MP5A	Mx	0	1
4	MP5A	X	0	5.5
5	MP5A	Z	148.965	5.5
6	MP5A	Mx	0	5.5
7	MP2A	X	0	1.5
8	MP2A	Z	150.254	1.5
9	MP2A	Mx	-.1	1.5
10	MP2A	X	0	5.5
11	MP2A	Z	150.254	5.5
12	MP2A	Mx	-.1	5.5
13	MP2A	X	0	1.5
14	MP2A	Z	150.254	1.5
15	MP2A	Mx	.1	1.5
16	MP2A	X	0	5.5
17	MP2A	Z	150.254	5.5
18	MP2A	Mx	.1	5.5
19	MP3A	X	0	1.5
20	MP3A	Z	86.543	1.5
21	MP3A	Mx	0	1.5
22	MP3A	X	0	4.45
23	MP3A	Z	86.543	4.45
24	MP3A	Mx	0	4.45
25	MP1A	X	0	.83
26	MP1A	Z	34.433	.83
27	MP1A	Mx	0	.83
28	MP1A	X	0	.83
29	MP1A	Z	34.433	.83
30	MP1A	Mx	0	.83
31	MP1A	X	0	3
32	MP1A	Z	34.433	3
33	MP1A	Mx	0	3
34	MP1A	X	0	3
35	MP1A	Z	34.433	3
36	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-68.157	1
2	MP5A	Z	118.051	1
3	MP5A	Mx	.045	1
4	MP5A	X	-68.157	5.5
5	MP5A	Z	118.051	5.5
6	MP5A	Mx	.045	5.5
7	MP2A	X	-68.766	1.5
8	MP2A	Z	119.106	1.5
9	MP2A	Mx	-.034	1.5
10	MP2A	X	-68.766	5.5
11	MP2A	Z	119.106	5.5
12	MP2A	Mx	-.034	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
13	MP2A	X	-68.766	1.5
14	MP2A	Z	119.106	1.5
15	MP2A	Mx	.125	1.5
16	MP2A	X	-68.766	5.5
17	MP2A	Z	119.106	5.5
18	MP2A	Mx	.125	5.5
19	MP3A	X	-36.689	1.5
20	MP3A	Z	63.547	1.5
21	MP3A	Mx	.024	1.5
22	MP3A	X	-36.689	4.45
23	MP3A	Z	63.547	4.45
24	MP3A	Mx	.024	4.45
25	MP1A	X	-15.79	.83
26	MP1A	Z	27.348	.83
27	MP1A	Mx	-.016	.83
28	MP1A	X	-15.79	.83
29	MP1A	Z	27.348	.83
30	MP1A	Mx	-.016	.83
31	MP1A	X	-15.243	3
32	MP1A	Z	26.402	3
33	MP1A	Mx	-.015	3
34	MP1A	X	-15.243	3
35	MP1A	Z	26.402	3
36	MP1A	Mx	-.015	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-96.138	1
2	MP5A	Z	55.505	1
3	MP5A	Mx	.064	1
4	MP5A	X	-96.138	5.5
5	MP5A	Z	55.505	5.5
6	MP5A	Mx	.064	5.5
7	MP2A	X	-97.07	1.5
8	MP2A	Z	56.043	1.5
9	MP2A	Mx	.027	1.5
10	MP2A	X	-97.07	5.5
11	MP2A	Z	56.043	5.5
12	MP2A	Mx	.027	5.5
13	MP2A	X	-97.07	1.5
14	MP2A	Z	56.043	1.5
15	MP2A	Mx	.102	1.5
16	MP2A	X	-97.07	5.5
17	MP2A	Z	56.043	5.5
18	MP2A	Mx	.102	5.5
19	MP3A	X	-40.744	1.5
20	MP3A	Z	23.524	1.5
21	MP3A	Mx	.027	1.5
22	MP3A	X	-40.744	4.45
23	MP3A	Z	23.524	4.45
24	MP3A	Mx	.027	4.45
25	MP1A	X	-22.405	.83
26	MP1A	Z	12.935	.83
27	MP1A	Mx	-.022	.83
28	MP1A	X	-22.405	.83
29	MP1A	Z	12.935	.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
30	MP1A	Mx	-.022	.83
31	MP1A	X	-19.564	3
32	MP1A	Z	11.296	3
33	MP1A	Mx	-.02	3
34	MP1A	X	-19.564	3
35	MP1A	Z	11.296	3
36	MP1A	Mx	-.02	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP5A	X	-98.359	1
2	MP5A	Z	0	1
3	MP5A	Mx	.066	1
4	MP5A	X	-98.359	5.5
5	MP5A	Z	0	5.5
6	MP5A	Mx	.066	5.5
7	MP2A	X	-99.364	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.066	1.5
10	MP2A	X	-99.364	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	.066	5.5
13	MP2A	X	-99.364	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	.066	1.5
16	MP2A	X	-99.364	5.5
17	MP2A	Z	0	5.5
18	MP2A	Mx	.066	5.5
19	MP3A	X	-33.882	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	.023	1.5
22	MP3A	X	-33.882	4.45
23	MP3A	Z	0	4.45
24	MP3A	Mx	.023	4.45
25	MP1A	X	-23.017	.83
26	MP1A	Z	0	.83
27	MP1A	Mx	-.023	.83
28	MP1A	X	-23.017	.83
29	MP1A	Z	0	.83
30	MP1A	Mx	-.023	.83
31	MP1A	X	-18.644	3
32	MP1A	Z	0	3
33	MP1A	Mx	-.019	3
34	MP1A	X	-18.644	3
35	MP1A	Z	0	3
36	MP1A	Mx	-.019	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP5A	X	-96.138	1
2	MP5A	Z	-55.505	1
3	MP5A	Mx	.064	1
4	MP5A	X	-96.138	5.5
5	MP5A	Z	-55.505	5.5
6	MP5A	Mx	.064	5.5
7	MP2A	X	-97.07	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
8	MP2A	Z	-56.043	1.5
9	MP2A	Mx	.102	1.5
10	MP2A	X	-97.07	5.5
11	MP2A	Z	-56.043	5.5
12	MP2A	Mx	.102	5.5
13	MP2A	X	-97.07	1.5
14	MP2A	Z	-56.043	1.5
15	MP2A	Mx	.027	1.5
16	MP2A	X	-97.07	5.5
17	MP2A	Z	-56.043	5.5
18	MP2A	Mx	.027	5.5
19	MP3A	X	-40.744	1.5
20	MP3A	Z	-23.524	1.5
21	MP3A	Mx	.027	1.5
22	MP3A	X	-40.744	4.45
23	MP3A	Z	-23.524	4.45
24	MP3A	Mx	.027	4.45
25	MP1A	X	-22.405	.83
26	MP1A	Z	-12.935	.83
27	MP1A	Mx	-.022	.83
28	MP1A	X	-22.405	.83
29	MP1A	Z	-12.935	.83
30	MP1A	Mx	-.022	.83
31	MP1A	X	-19.564	3
32	MP1A	Z	-11.296	3
33	MP1A	Mx	-.02	3
34	MP1A	X	-19.564	3
35	MP1A	Z	-11.296	3
36	MP1A	Mx	-.02	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	X	-68.157	1
2	MP5A	Z	-118.051	1
3	MP5A	Mx	.045	1
4	MP5A	X	-68.157	5.5
5	MP5A	Z	-118.051	5.5
6	MP5A	Mx	.045	5.5
7	MP2A	X	-68.766	1.5
8	MP2A	Z	-119.106	1.5
9	MP2A	Mx	.125	1.5
10	MP2A	X	-68.766	5.5
11	MP2A	Z	-119.106	5.5
12	MP2A	Mx	.125	5.5
13	MP2A	X	-68.766	1.5
14	MP2A	Z	-119.106	1.5
15	MP2A	Mx	-.034	1.5
16	MP2A	X	-68.766	5.5
17	MP2A	Z	-119.106	5.5
18	MP2A	Mx	-.034	5.5
19	MP3A	X	-36.689	1.5
20	MP3A	Z	-63.547	1.5
21	MP3A	Mx	.024	1.5
22	MP3A	X	-36.689	4.45
23	MP3A	Z	-63.547	4.45
24	MP3A	Mx	.024	4.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
25	MP1A	X	-15.79	.83
26	MP1A	Z	-27.348	.83
27	MP1A	Mx	-.016	.83
28	MP1A	X	-15.79	.83
29	MP1A	Z	-27.348	.83
30	MP1A	Mx	-.016	.83
31	MP1A	X	-15.243	3
32	MP1A	Z	-26.402	3
33	MP1A	Mx	-.015	3
34	MP1A	X	-15.243	3
35	MP1A	Z	-26.402	3
36	MP1A	Mx	-.015	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	0	1
2	MP5A	Z	-27.159	1
3	MP5A	Mx	0	1
4	MP5A	X	0	5.5
5	MP5A	Z	-27.159	5.5
6	MP5A	Mx	0	5.5
7	MP2A	X	0	1.5
8	MP2A	Z	-27.419	1.5
9	MP2A	Mx	.018	1.5
10	MP2A	X	0	5.5
11	MP2A	Z	-27.419	5.5
12	MP2A	Mx	.018	5.5
13	MP2A	X	0	1.5
14	MP2A	Z	-27.419	1.5
15	MP2A	Mx	-.018	1.5
16	MP2A	X	0	5.5
17	MP2A	Z	-27.419	5.5
18	MP2A	Mx	-.018	5.5
19	MP3A	X	0	1.5
20	MP3A	Z	-16.184	1.5
21	MP3A	Mx	0	1.5
22	MP3A	X	0	4.45
23	MP3A	Z	-16.184	4.45
24	MP3A	Mx	0	4.45
25	MP1A	X	0	.83
26	MP1A	Z	-6.826	.83
27	MP1A	Mx	0	.83
28	MP1A	X	0	.83
29	MP1A	Z	-6.826	.83
30	MP1A	Mx	0	.83
31	MP1A	X	0	3
32	MP1A	Z	-6.826	3
33	MP1A	Mx	0	3
34	MP1A	X	0	3
35	MP1A	Z	-6.826	3
36	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	12.527	1
2	MP5A	Z	-21.698	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
3	MP5A	Mx	-.008	1
4	MP5A	X	12.527	5.5
5	MP5A	Z	-21.698	5.5
6	MP5A	Mx	-.008	5.5
7	MP2A	X	12.647	1.5
8	MP2A	Z	-21.906	1.5
9	MP2A	Mx	.006	1.5
10	MP2A	X	12.647	5.5
11	MP2A	Z	-21.906	5.5
12	MP2A	Mx	.006	5.5
13	MP2A	X	12.647	1.5
14	MP2A	Z	-21.906	1.5
15	MP2A	Mx	-.023	1.5
16	MP2A	X	12.647	5.5
17	MP2A	Z	-21.906	5.5
18	MP2A	Mx	-.023	5.5
19	MP3A	X	6.932	1.5
20	MP3A	Z	-12.006	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	6.932	4.45
23	MP3A	Z	-12.006	4.45
24	MP3A	Mx	-.005	4.45
25	MP1A	X	3.153	.83
26	MP1A	Z	-5.462	.83
27	MP1A	Mx	.003	.83
28	MP1A	X	3.153	.83
29	MP1A	Z	-5.462	.83
30	MP1A	Mx	.003	.83
31	MP1A	X	3.055	3
32	MP1A	Z	-5.291	3
33	MP1A	Mx	.003	3
34	MP1A	X	3.055	3
35	MP1A	Z	-5.291	3
36	MP1A	Mx	.003	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	18.052	1
2	MP5A	Z	-10.422	1
3	MP5A	Mx	-.012	1
4	MP5A	X	18.052	5.5
5	MP5A	Z	-10.422	5.5
6	MP5A	Mx	-.012	5.5
7	MP2A	X	18.226	1.5
8	MP2A	Z	-10.523	1.5
9	MP2A	Mx	-.005	1.5
10	MP2A	X	18.226	5.5
11	MP2A	Z	-10.523	5.5
12	MP2A	Mx	-.005	5.5
13	MP2A	X	18.226	1.5
14	MP2A	Z	-10.523	1.5
15	MP2A	Mx	-.019	1.5
16	MP2A	X	18.226	5.5
17	MP2A	Z	-10.523	5.5
18	MP2A	Mx	-.019	5.5
19	MP3A	X	7.987	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
20	MP3A	Z	-4.611	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	7.987	4.45
23	MP3A	Z	-4.611	4.45
24	MP3A	Mx	-.005	4.45
25	MP1A	X	4.563	.83
26	MP1A	Z	-2.635	.83
27	MP1A	Mx	.005	.83
28	MP1A	X	4.563	.83
29	MP1A	Z	-2.635	.83
30	MP1A	Mx	.005	.83
31	MP1A	X	4.051	3
32	MP1A	Z	-2.339	3
33	MP1A	Mx	.004	3
34	MP1A	X	4.051	3
35	MP1A	Z	-2.339	3
36	MP1A	Mx	.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	18.74	1
2	MP5A	Z	0	1
3	MP5A	Mx	-.012	1
4	MP5A	X	18.74	5.5
5	MP5A	Z	0	5.5
6	MP5A	Mx	-.012	5.5
7	MP2A	X	18.921	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.013	1.5
10	MP2A	X	18.921	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	-.013	5.5
13	MP2A	X	18.921	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	-.013	1.5
16	MP2A	X	18.921	5.5
17	MP2A	Z	0	5.5
18	MP2A	Mx	-.013	5.5
19	MP3A	X	6.902	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	6.902	4.45
23	MP3A	Z	0	4.45
24	MP3A	Mx	-.005	4.45
25	MP1A	X	4.751	.83
26	MP1A	Z	0	.83
27	MP1A	Mx	.005	.83
28	MP1A	X	4.751	.83
29	MP1A	Z	0	.83
30	MP1A	Mx	.005	.83
31	MP1A	X	3.962	3
32	MP1A	Z	0	3
33	MP1A	Mx	.004	3
34	MP1A	X	3.962	3
35	MP1A	Z	0	3
36	MP1A	Mx	.004	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	18.052	1
2	MP5A	Z	10.422	1
3	MP5A	Mx	-.012	1
4	MP5A	X	18.052	5.5
5	MP5A	Z	10.422	5.5
6	MP5A	Mx	-.012	5.5
7	MP2A	X	18.226	1.5
8	MP2A	Z	10.523	1.5
9	MP2A	Mx	-.019	1.5
10	MP2A	X	18.226	5.5
11	MP2A	Z	10.523	5.5
12	MP2A	Mx	-.019	5.5
13	MP2A	X	18.226	1.5
14	MP2A	Z	10.523	1.5
15	MP2A	Mx	-.005	1.5
16	MP2A	X	18.226	5.5
17	MP2A	Z	10.523	5.5
18	MP2A	Mx	-.005	5.5
19	MP3A	X	7.987	1.5
20	MP3A	Z	4.611	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	7.987	4.45
23	MP3A	Z	4.611	4.45
24	MP3A	Mx	-.005	4.45
25	MP1A	X	4.563	.83
26	MP1A	Z	2.635	.83
27	MP1A	Mx	.005	.83
28	MP1A	X	4.563	.83
29	MP1A	Z	2.635	.83
30	MP1A	Mx	.005	.83
31	MP1A	X	4.051	3
32	MP1A	Z	2.339	3
33	MP1A	Mx	.004	3
34	MP1A	X	4.051	3
35	MP1A	Z	2.339	3
36	MP1A	Mx	.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	12.527	1
2	MP5A	Z	21.698	1
3	MP5A	Mx	-.008	1
4	MP5A	X	12.527	5.5
5	MP5A	Z	21.698	5.5
6	MP5A	Mx	-.008	5.5
7	MP2A	X	12.647	1.5
8	MP2A	Z	21.906	1.5
9	MP2A	Mx	-.023	1.5
10	MP2A	X	12.647	5.5
11	MP2A	Z	21.906	5.5
12	MP2A	Mx	-.023	5.5
13	MP2A	X	12.647	1.5
14	MP2A	Z	21.906	1.5
15	MP2A	Mx	.006	1.5
16	MP2A	X	12.647	5.5
17	MP2A	Z	21.906	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
18	MP2A	Mx	.006	5.5
19	MP3A	X	6.932	1.5
20	MP3A	Z	12.006	1.5
21	MP3A	Mx	-.005	1.5
22	MP3A	X	6.932	4.45
23	MP3A	Z	12.006	4.45
24	MP3A	Mx	-.005	4.45
25	MP1A	X	3.153	.83
26	MP1A	Z	5.462	.83
27	MP1A	Mx	.003	.83
28	MP1A	X	3.153	.83
29	MP1A	Z	5.462	.83
30	MP1A	Mx	.003	.83
31	MP1A	X	3.055	3
32	MP1A	Z	5.291	3
33	MP1A	Mx	.003	3
34	MP1A	X	3.055	3
35	MP1A	Z	5.291	3
36	MP1A	Mx	.003	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	0	1
2	MP5A	Z	27.159	1
3	MP5A	Mx	0	1
4	MP5A	X	0	5.5
5	MP5A	Z	27.159	5.5
6	MP5A	Mx	0	5.5
7	MP2A	X	0	1.5
8	MP2A	Z	27.419	1.5
9	MP2A	Mx	-.018	1.5
10	MP2A	X	0	5.5
11	MP2A	Z	27.419	5.5
12	MP2A	Mx	-.018	5.5
13	MP2A	X	0	1.5
14	MP2A	Z	27.419	1.5
15	MP2A	Mx	.018	1.5
16	MP2A	X	0	5.5
17	MP2A	Z	27.419	5.5
18	MP2A	Mx	.018	5.5
19	MP3A	X	0	1.5
20	MP3A	Z	16.184	1.5
21	MP3A	Mx	0	1.5
22	MP3A	X	0	4.45
23	MP3A	Z	16.184	4.45
24	MP3A	Mx	0	4.45
25	MP1A	X	0	.83
26	MP1A	Z	6.826	.83
27	MP1A	Mx	0	.83
28	MP1A	X	0	.83
29	MP1A	Z	6.826	.83
30	MP1A	Mx	0	.83
31	MP1A	X	0	3
32	MP1A	Z	6.826	3
33	MP1A	Mx	0	3
34	MP1A	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
35	MP1A	Z	6.826	3
36	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-12.527	1
2	MP5A	Z	21.698	1
3	MP5A	Mx	.008	1
4	MP5A	X	-12.527	5.5
5	MP5A	Z	21.698	5.5
6	MP5A	Mx	.008	5.5
7	MP2A	X	-12.647	1.5
8	MP2A	Z	21.906	1.5
9	MP2A	Mx	-.006	1.5
10	MP2A	X	-12.647	5.5
11	MP2A	Z	21.906	5.5
12	MP2A	Mx	-.006	5.5
13	MP2A	X	-12.647	1.5
14	MP2A	Z	21.906	1.5
15	MP2A	Mx	.023	1.5
16	MP2A	X	-12.647	5.5
17	MP2A	Z	21.906	5.5
18	MP2A	Mx	.023	5.5
19	MP3A	X	-6.932	1.5
20	MP3A	Z	12.006	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	-6.932	4.45
23	MP3A	Z	12.006	4.45
24	MP3A	Mx	.005	4.45
25	MP1A	X	-3.153	.83
26	MP1A	Z	5.462	.83
27	MP1A	Mx	-.003	.83
28	MP1A	X	-3.153	.83
29	MP1A	Z	5.462	.83
30	MP1A	Mx	-.003	.83
31	MP1A	X	-3.055	3
32	MP1A	Z	5.291	3
33	MP1A	Mx	-.003	3
34	MP1A	X	-3.055	3
35	MP1A	Z	5.291	3
36	MP1A	Mx	-.003	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-18.052	1
2	MP5A	Z	10.422	1
3	MP5A	Mx	.012	1
4	MP5A	X	-18.052	5.5
5	MP5A	Z	10.422	5.5
6	MP5A	Mx	.012	5.5
7	MP2A	X	-18.226	1.5
8	MP2A	Z	10.523	1.5
9	MP2A	Mx	.005	1.5
10	MP2A	X	-18.226	5.5
11	MP2A	Z	10.523	5.5
12	MP2A	Mx	.005	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP2A	X	-18.226	1.5
14	MP2A	Z	10.523	1.5
15	MP2A	Mx	.019	1.5
16	MP2A	X	-18.226	5.5
17	MP2A	Z	10.523	5.5
18	MP2A	Mx	.019	5.5
19	MP3A	X	-7.987	1.5
20	MP3A	Z	4.611	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	-7.987	4.45
23	MP3A	Z	4.611	4.45
24	MP3A	Mx	.005	4.45
25	MP1A	X	-4.563	.83
26	MP1A	Z	2.635	.83
27	MP1A	Mx	-.005	.83
28	MP1A	X	-4.563	.83
29	MP1A	Z	2.635	.83
30	MP1A	Mx	-.005	.83
31	MP1A	X	-4.051	3
32	MP1A	Z	2.339	3
33	MP1A	Mx	-.004	3
34	MP1A	X	-4.051	3
35	MP1A	Z	2.339	3
36	MP1A	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	X	-18.74	1
2	MP5A	Z	0	1
3	MP5A	Mx	.012	1
4	MP5A	X	-18.74	5.5
5	MP5A	Z	0	5.5
6	MP5A	Mx	.012	5.5
7	MP2A	X	-18.921	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.013	1.5
10	MP2A	X	-18.921	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	.013	5.5
13	MP2A	X	-18.921	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	.013	1.5
16	MP2A	X	-18.921	5.5
17	MP2A	Z	0	5.5
18	MP2A	Mx	.013	5.5
19	MP3A	X	-6.902	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	-6.902	4.45
23	MP3A	Z	0	4.45
24	MP3A	Mx	.005	4.45
25	MP1A	X	-4.751	.83
26	MP1A	Z	0	.83
27	MP1A	Mx	-.005	.83
28	MP1A	X	-4.751	.83
29	MP1A	Z	0	.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
30	MP1A	Mx	-.005	.83
31	MP1A	X	-3.962	3
32	MP1A	Z	0	3
33	MP1A	Mx	-.004	3
34	MP1A	X	-3.962	3
35	MP1A	Z	0	3
36	MP1A	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP5A	X	-18.052	1
2	MP5A	Z	-10.422	1
3	MP5A	Mx	.012	1
4	MP5A	X	-18.052	5.5
5	MP5A	Z	-10.422	5.5
6	MP5A	Mx	.012	5.5
7	MP2A	X	-18.226	1.5
8	MP2A	Z	-10.523	1.5
9	MP2A	Mx	.019	1.5
10	MP2A	X	-18.226	5.5
11	MP2A	Z	-10.523	5.5
12	MP2A	Mx	.019	5.5
13	MP2A	X	-18.226	1.5
14	MP2A	Z	-10.523	1.5
15	MP2A	Mx	.005	1.5
16	MP2A	X	-18.226	5.5
17	MP2A	Z	-10.523	5.5
18	MP2A	Mx	.005	5.5
19	MP3A	X	-7.987	1.5
20	MP3A	Z	-4.611	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	-7.987	4.45
23	MP3A	Z	-4.611	4.45
24	MP3A	Mx	.005	4.45
25	MP1A	X	-4.563	.83
26	MP1A	Z	-2.635	.83
27	MP1A	Mx	-.005	.83
28	MP1A	X	-4.563	.83
29	MP1A	Z	-2.635	.83
30	MP1A	Mx	-.005	.83
31	MP1A	X	-4.051	3
32	MP1A	Z	-2.339	3
33	MP1A	Mx	-.004	3
34	MP1A	X	-4.051	3
35	MP1A	Z	-2.339	3
36	MP1A	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP5A	X	-12.527	1
2	MP5A	Z	-21.698	1
3	MP5A	Mx	.008	1
4	MP5A	X	-12.527	5.5
5	MP5A	Z	-21.698	5.5
6	MP5A	Mx	.008	5.5
7	MP2A	X	-12.647	1.5



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 Model Name : 467314-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
8	MP2A	Z	-21.906	1.5
9	MP2A	Mx	.023	1.5
10	MP2A	X	-12.647	5.5
11	MP2A	Z	-21.906	5.5
12	MP2A	Mx	.023	5.5
13	MP2A	X	-12.647	1.5
14	MP2A	Z	-21.906	1.5
15	MP2A	Mx	-.006	1.5
16	MP2A	X	-12.647	5.5
17	MP2A	Z	-21.906	5.5
18	MP2A	Mx	-.006	5.5
19	MP3A	X	-6.932	1.5
20	MP3A	Z	-12.006	1.5
21	MP3A	Mx	.005	1.5
22	MP3A	X	-6.932	4.45
23	MP3A	Z	-12.006	4.45
24	MP3A	Mx	.005	4.45
25	MP1A	X	-3.153	.83
26	MP1A	Z	-5.462	.83
27	MP1A	Mx	-.003	.83
28	MP1A	X	-3.153	.83
29	MP1A	Z	-5.462	.83
30	MP1A	Mx	-.003	.83
31	MP1A	X	-3.055	3
32	MP1A	Z	-5.291	3
33	MP1A	Mx	-.003	3
34	MP1A	X	-3.055	3
35	MP1A	Z	-5.291	3
36	MP1A	Mx	-.003	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	0	1
2	MP5A	Z	-8.862	1
3	MP5A	Mx	0	1
4	MP5A	X	0	5.5
5	MP5A	Z	-8.862	5.5
6	MP5A	Mx	0	5.5
7	MP2A	X	0	1.5
8	MP2A	Z	-8.938	1.5
9	MP2A	Mx	.006	1.5
10	MP2A	X	0	5.5
11	MP2A	Z	-8.938	5.5
12	MP2A	Mx	.006	5.5
13	MP2A	X	0	1.5
14	MP2A	Z	-8.938	1.5
15	MP2A	Mx	-.006	1.5
16	MP2A	X	0	5.5
17	MP2A	Z	-8.938	5.5
18	MP2A	Mx	-.006	5.5
19	MP3A	X	0	1.5
20	MP3A	Z	-5.148	1.5
21	MP3A	Mx	0	1.5
22	MP3A	X	0	4.45
23	MP3A	Z	-5.148	4.45
24	MP3A	Mx	0	4.45



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
25	MP1A	X	0	.83
26	MP1A	Z	-2.048	.83
27	MP1A	Mx	0	.83
28	MP1A	X	0	.83
29	MP1A	Z	-2.048	.83
30	MP1A	Mx	0	.83
31	MP1A	X	0	3
32	MP1A	Z	-2.048	3
33	MP1A	Mx	0	3
34	MP1A	X	0	3
35	MP1A	Z	-2.048	3
36	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	4.055	1
2	MP5A	Z	-7.023	1
3	MP5A	Mx	-.003	1
4	MP5A	X	4.055	5.5
5	MP5A	Z	-7.023	5.5
6	MP5A	Mx	-.003	5.5
7	MP2A	X	4.091	1.5
8	MP2A	Z	-7.085	1.5
9	MP2A	Mx	.002	1.5
10	MP2A	X	4.091	5.5
11	MP2A	Z	-7.085	5.5
12	MP2A	Mx	.002	5.5
13	MP2A	X	4.091	1.5
14	MP2A	Z	-7.085	1.5
15	MP2A	Mx	-.007	1.5
16	MP2A	X	4.091	5.5
17	MP2A	Z	-7.085	5.5
18	MP2A	Mx	-.007	5.5
19	MP3A	X	2.183	1.5
20	MP3A	Z	-3.78	1.5
21	MP3A	Mx	-.001	1.5
22	MP3A	X	2.183	4.45
23	MP3A	Z	-3.78	4.45
24	MP3A	Mx	-.001	4.45
25	MP1A	X	.939	.83
26	MP1A	Z	-1.627	.83
27	MP1A	Mx	.000939	.83
28	MP1A	X	.939	.83
29	MP1A	Z	-1.627	.83
30	MP1A	Mx	.000939	.83
31	MP1A	X	.907	3
32	MP1A	Z	-1.571	3
33	MP1A	Mx	.000907	3
34	MP1A	X	.907	3
35	MP1A	Z	-1.571	3
36	MP1A	Mx	.000907	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	5.719	1
2	MP5A	Z	-3.302	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP5A	Mx	-.004	1
4	MP5A	X	5.719	5.5
5	MP5A	Z	-3.302	5.5
6	MP5A	Mx	-.004	5.5
7	MP2A	X	5.775	1.5
8	MP2A	Z	-3.334	1.5
9	MP2A	Mx	-.002	1.5
10	MP2A	X	5.775	5.5
11	MP2A	Z	-3.334	5.5
12	MP2A	Mx	-.002	5.5
13	MP2A	X	5.775	1.5
14	MP2A	Z	-3.334	1.5
15	MP2A	Mx	-.006	1.5
16	MP2A	X	5.775	5.5
17	MP2A	Z	-3.334	5.5
18	MP2A	Mx	-.006	5.5
19	MP3A	X	2.424	1.5
20	MP3A	Z	-1.399	1.5
21	MP3A	Mx	-.002	1.5
22	MP3A	X	2.424	4.45
23	MP3A	Z	-1.399	4.45
24	MP3A	Mx	-.002	4.45
25	MP1A	X	1.333	.83
26	MP1A	Z	-.77	.83
27	MP1A	Mx	.001	.83
28	MP1A	X	1.333	.83
29	MP1A	Z	-.77	.83
30	MP1A	Mx	.001	.83
31	MP1A	X	1.164	3
32	MP1A	Z	-.672	3
33	MP1A	Mx	.001	3
34	MP1A	X	1.164	3
35	MP1A	Z	-.672	3
36	MP1A	Mx	.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	X	5.851	1
2	MP5A	Z	0	1
3	MP5A	Mx	-.004	1
4	MP5A	X	5.851	5.5
5	MP5A	Z	0	5.5
6	MP5A	Mx	-.004	5.5
7	MP2A	X	5.911	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.004	1.5
10	MP2A	X	5.911	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	-.004	5.5
13	MP2A	X	5.911	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	-.004	1.5
16	MP2A	X	5.911	5.5
17	MP2A	Z	0	5.5
18	MP2A	Mx	-.004	5.5
19	MP3A	X	2.016	1.5



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
20	MP3A	Z	0	1.5
21	MP3A	Mx	-.001	1.5
22	MP3A	X	2.016	4.45
23	MP3A	Z	0	4.45
24	MP3A	Mx	-.001	4.45
25	MP1A	X	1.369	.83
26	MP1A	Z	0	.83
27	MP1A	Mx	.001	.83
28	MP1A	X	1.369	.83
29	MP1A	Z	0	.83
30	MP1A	Mx	.001	.83
31	MP1A	X	1.109	3
32	MP1A	Z	0	3
33	MP1A	Mx	.001	3
34	MP1A	X	1.109	3
35	MP1A	Z	0	3
36	MP1A	Mx	.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP5A	X	5.719	1
2	MP5A	Z	3.302	1
3	MP5A	Mx	-.004	1
4	MP5A	X	5.719	5.5
5	MP5A	Z	3.302	5.5
6	MP5A	Mx	-.004	5.5
7	MP2A	X	5.775	1.5
8	MP2A	Z	3.334	1.5
9	MP2A	Mx	-.006	1.5
10	MP2A	X	5.775	5.5
11	MP2A	Z	3.334	5.5
12	MP2A	Mx	-.006	5.5
13	MP2A	X	5.775	1.5
14	MP2A	Z	3.334	1.5
15	MP2A	Mx	-.002	1.5
16	MP2A	X	5.775	5.5
17	MP2A	Z	3.334	5.5
18	MP2A	Mx	-.002	5.5
19	MP3A	X	2.424	1.5
20	MP3A	Z	1.399	1.5
21	MP3A	Mx	-.002	1.5
22	MP3A	X	2.424	4.45
23	MP3A	Z	1.399	4.45
24	MP3A	Mx	-.002	4.45
25	MP1A	X	1.333	.83
26	MP1A	Z	.77	.83
27	MP1A	Mx	.001	.83
28	MP1A	X	1.333	.83
29	MP1A	Z	.77	.83
30	MP1A	Mx	.001	.83
31	MP1A	X	1.164	3
32	MP1A	Z	.672	3
33	MP1A	Mx	.001	3
34	MP1A	X	1.164	3
35	MP1A	Z	.672	3
36	MP1A	Mx	.001	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	4.055	1
2	MP5A	Z	7.023	1
3	MP5A	Mx	-.003	1
4	MP5A	X	4.055	5.5
5	MP5A	Z	7.023	5.5
6	MP5A	Mx	-.003	5.5
7	MP2A	X	4.091	1.5
8	MP2A	Z	7.085	1.5
9	MP2A	Mx	-.007	1.5
10	MP2A	X	4.091	5.5
11	MP2A	Z	7.085	5.5
12	MP2A	Mx	-.007	5.5
13	MP2A	X	4.091	1.5
14	MP2A	Z	7.085	1.5
15	MP2A	Mx	.002	1.5
16	MP2A	X	4.091	5.5
17	MP2A	Z	7.085	5.5
18	MP2A	Mx	.002	5.5
19	MP3A	X	2.183	1.5
20	MP3A	Z	3.78	1.5
21	MP3A	Mx	-.001	1.5
22	MP3A	X	2.183	4.45
23	MP3A	Z	3.78	4.45
24	MP3A	Mx	-.001	4.45
25	MP1A	X	.939	.83
26	MP1A	Z	1.627	.83
27	MP1A	Mx	.000939	.83
28	MP1A	X	.939	.83
29	MP1A	Z	1.627	.83
30	MP1A	Mx	.000939	.83
31	MP1A	X	.907	3
32	MP1A	Z	1.571	3
33	MP1A	Mx	.000907	3
34	MP1A	X	.907	3
35	MP1A	Z	1.571	3
36	MP1A	Mx	.000907	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	0	1
2	MP5A	Z	8.862	1
3	MP5A	Mx	0	1
4	MP5A	X	0	5.5
5	MP5A	Z	8.862	5.5
6	MP5A	Mx	0	5.5
7	MP2A	X	0	1.5
8	MP2A	Z	8.938	1.5
9	MP2A	Mx	-.006	1.5
10	MP2A	X	0	5.5
11	MP2A	Z	8.938	5.5
12	MP2A	Mx	-.006	5.5
13	MP2A	X	0	1.5
14	MP2A	Z	8.938	1.5
15	MP2A	Mx	.006	1.5
16	MP2A	X	0	5.5
17	MP2A	Z	8.938	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
18	MP2A	Mx	.006	5.5
19	MP3A	X	0	1.5
20	MP3A	Z	5.148	1.5
21	MP3A	Mx	0	1.5
22	MP3A	X	0	4.45
23	MP3A	Z	5.148	4.45
24	MP3A	Mx	0	4.45
25	MP1A	X	0	.83
26	MP1A	Z	2.048	.83
27	MP1A	Mx	0	.83
28	MP1A	X	0	.83
29	MP1A	Z	2.048	.83
30	MP1A	Mx	0	.83
31	MP1A	X	0	3
32	MP1A	Z	2.048	3
33	MP1A	Mx	0	3
34	MP1A	X	0	3
35	MP1A	Z	2.048	3
36	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP5A	X	-4.055	1
2	MP5A	Z	7.023	1
3	MP5A	Mx	.003	1
4	MP5A	X	-4.055	5.5
5	MP5A	Z	7.023	5.5
6	MP5A	Mx	.003	5.5
7	MP2A	X	-4.091	1.5
8	MP2A	Z	7.085	1.5
9	MP2A	Mx	-.002	1.5
10	MP2A	X	-4.091	5.5
11	MP2A	Z	7.085	5.5
12	MP2A	Mx	-.002	5.5
13	MP2A	X	-4.091	1.5
14	MP2A	Z	7.085	1.5
15	MP2A	Mx	.007	1.5
16	MP2A	X	-4.091	5.5
17	MP2A	Z	7.085	5.5
18	MP2A	Mx	.007	5.5
19	MP3A	X	-2.183	1.5
20	MP3A	Z	3.78	1.5
21	MP3A	Mx	.001	1.5
22	MP3A	X	-2.183	4.45
23	MP3A	Z	3.78	4.45
24	MP3A	Mx	.001	4.45
25	MP1A	X	-.939	.83
26	MP1A	Z	1.627	.83
27	MP1A	Mx	-.000939	.83
28	MP1A	X	-.939	.83
29	MP1A	Z	1.627	.83
30	MP1A	Mx	-.000939	.83
31	MP1A	X	-.907	3
32	MP1A	Z	1.571	3
33	MP1A	Mx	-.000907	3
34	MP1A	X	-.907	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
35	MP1A	Z	1.571	3
36	MP1A	Mx	-0.00907	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-5.719	1
2	MP5A	Z	3.302	1
3	MP5A	Mx	.004	1
4	MP5A	X	-5.719	5.5
5	MP5A	Z	3.302	5.5
6	MP5A	Mx	.004	5.5
7	MP2A	X	-5.775	1.5
8	MP2A	Z	3.334	1.5
9	MP2A	Mx	.002	1.5
10	MP2A	X	-5.775	5.5
11	MP2A	Z	3.334	5.5
12	MP2A	Mx	.002	5.5
13	MP2A	X	-5.775	1.5
14	MP2A	Z	3.334	1.5
15	MP2A	Mx	.006	1.5
16	MP2A	X	-5.775	5.5
17	MP2A	Z	3.334	5.5
18	MP2A	Mx	.006	5.5
19	MP3A	X	-2.424	1.5
20	MP3A	Z	1.399	1.5
21	MP3A	Mx	.002	1.5
22	MP3A	X	-2.424	4.45
23	MP3A	Z	1.399	4.45
24	MP3A	Mx	.002	4.45
25	MP1A	X	-1.333	.83
26	MP1A	Z	.77	.83
27	MP1A	Mx	-.001	.83
28	MP1A	X	-1.333	.83
29	MP1A	Z	.77	.83
30	MP1A	Mx	-.001	.83
31	MP1A	X	-1.164	3
32	MP1A	Z	.672	3
33	MP1A	Mx	-.001	3
34	MP1A	X	-1.164	3
35	MP1A	Z	.672	3
36	MP1A	Mx	-.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP5A	X	-5.851	1
2	MP5A	Z	0	1
3	MP5A	Mx	.004	1
4	MP5A	X	-5.851	5.5
5	MP5A	Z	0	5.5
6	MP5A	Mx	.004	5.5
7	MP2A	X	-5.911	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.004	1.5
10	MP2A	X	-5.911	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	.004	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP2A	X	-5.911	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	.004	1.5
16	MP2A	X	-5.911	5.5
17	MP2A	Z	0	5.5
18	MP2A	Mx	.004	5.5
19	MP3A	X	-2.016	1.5
20	MP3A	Z	0	1.5
21	MP3A	Mx	.001	1.5
22	MP3A	X	-2.016	4.45
23	MP3A	Z	0	4.45
24	MP3A	Mx	.001	4.45
25	MP1A	X	-1.369	.83
26	MP1A	Z	0	.83
27	MP1A	Mx	-.001	.83
28	MP1A	X	-1.369	.83
29	MP1A	Z	0	.83
30	MP1A	Mx	-.001	.83
31	MP1A	X	-1.109	3
32	MP1A	Z	0	3
33	MP1A	Mx	-.001	3
34	MP1A	X	-1.109	3
35	MP1A	Z	0	3
36	MP1A	Mx	-.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP5A	X	-5.719	1
2	MP5A	Z	-3.302	1
3	MP5A	Mx	.004	1
4	MP5A	X	-5.719	5.5
5	MP5A	Z	-3.302	5.5
6	MP5A	Mx	.004	5.5
7	MP2A	X	-5.775	1.5
8	MP2A	Z	-3.334	1.5
9	MP2A	Mx	.006	1.5
10	MP2A	X	-5.775	5.5
11	MP2A	Z	-3.334	5.5
12	MP2A	Mx	.006	5.5
13	MP2A	X	-5.775	1.5
14	MP2A	Z	-3.334	1.5
15	MP2A	Mx	.002	1.5
16	MP2A	X	-5.775	5.5
17	MP2A	Z	-3.334	5.5
18	MP2A	Mx	.002	5.5
19	MP3A	X	-2.424	1.5
20	MP3A	Z	-1.399	1.5
21	MP3A	Mx	.002	1.5
22	MP3A	X	-2.424	4.45
23	MP3A	Z	-1.399	4.45
24	MP3A	Mx	.002	4.45
25	MP1A	X	-1.333	.83
26	MP1A	Z	-.77	.83
27	MP1A	Mx	-.001	.83
28	MP1A	X	-1.333	.83
29	MP1A	Z	-.77	.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
30	MP1A	Mx	-.001	.83
31	MP1A	X	-1.164	3
32	MP1A	Z	-.672	3
33	MP1A	Mx	-.001	3
34	MP1A	X	-1.164	3
35	MP1A	Z	-.672	3
36	MP1A	Mx	-.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP5A	X	-4.055	1
2	MP5A	Z	-7.023	1
3	MP5A	Mx	.003	1
4	MP5A	X	-4.055	5.5
5	MP5A	Z	-7.023	5.5
6	MP5A	Mx	.003	5.5
7	MP2A	X	-4.091	1.5
8	MP2A	Z	-7.085	1.5
9	MP2A	Mx	.007	1.5
10	MP2A	X	-4.091	5.5
11	MP2A	Z	-7.085	5.5
12	MP2A	Mx	.007	5.5
13	MP2A	X	-4.091	1.5
14	MP2A	Z	-7.085	1.5
15	MP2A	Mx	-.002	1.5
16	MP2A	X	-4.091	5.5
17	MP2A	Z	-7.085	5.5
18	MP2A	Mx	-.002	5.5
19	MP3A	X	-2.183	1.5
20	MP3A	Z	-3.78	1.5
21	MP3A	Mx	.001	1.5
22	MP3A	X	-2.183	4.45
23	MP3A	Z	-3.78	4.45
24	MP3A	Mx	.001	4.45
25	MP1A	X	-.939	.83
26	MP1A	Z	-1.627	.83
27	MP1A	Mx	-.000939	.83
28	MP1A	X	-.939	.83
29	MP1A	Z	-1.627	.83
30	MP1A	Mx	-.000939	.83
31	MP1A	X	-.907	3
32	MP1A	Z	-1.571	3
33	MP1A	Mx	-.000907	3
34	MP1A	X	-.907	3
35	MP1A	Z	-1.571	3
36	MP1A	Mx	-.000907	3

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	M30A	Y	-500	%8

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	M38	Y	-500	%45



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Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M38	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M30A	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	M6	Y	-6.734	-6.734	0	%100
2	M12	Y	-6.734	-6.734	0	%100
3	M18	Y	-3.106	-3.106	0	%100
4	M19	Y	-3.106	-3.106	0	%100
5	M20	Y	-3.106	-3.106	0	%100
6	M30	Y	-8.114	-8.114	0	%100
7	M21	Y	-6.734	-6.734	0	%100
8	M22	Y	-6.734	-6.734	0	%100
9	M23	Y	-3.464	-3.464	0	%100
10	M24	Y	-3.464	-3.464	0	%100
11	M25A	Y	-3.464	-3.464	0	%100
12	M26A	Y	-3.464	-3.464	0	%100
13	M29	Y	-4.051	-4.051	0	%100
14	M30A	Y	-4.051	-4.051	0	%100
15	M31A	Y	-2.749	-2.749	0	%100
16	M32A	Y	-2.749	-2.749	0	%100
17	M33	Y	-4.051	-4.051	0	%100
18	M34	Y	-2.57	-2.57	0	%100
19	M35	Y	-2.57	-2.57	0	%100
20	M34A	Y	-2.749	-2.749	0	%100
21	M35A	Y	-4.051	-4.051	0	%100
22	M36	Y	-2.57	-2.57	0	%100
23	M37	Y	-4.051	-4.051	0	%100
24	M38	Y	-4.051	-4.051	0	%100
25	M29A	Y	-4.051	-4.051	0	%100
26	MP1A	Y	-5.074	-5.074	0	%100
27	MP5A	Y	-5.074	-5.074	0	%100
28	MP3A	Y	-5.074	-5.074	0	%100
29	MP2A	Y	-5.789	-5.789	0	%100
30	MP4A	Y	-5.074	-5.074	0	%100
31	M45	Y	-6.734	-6.734	0	%100
32	M46	Y	-6.734	-6.734	0	%100
33	M47	Y	-5.074	-5.074	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	M6	X	0	0	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	0	0	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	0	0	0	%100
6	M18	Z	-3.683	-3.683	0	%100
7	M19	X	0	0	0	%100
8	M19	Z	-3.683	-3.683	0	%100
9	M20	X	0	0	0	%100
10	M20	Z	-2.795	-2.795	0	%100



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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,%]	
11	M30	X	0	0	%100	
12	M30	Z	-11.329	-11.329	0	%100
13	M21	X	0	0	0	%100
14	M21	Z	-8.248	-8.248	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-8.248	-8.248	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M25A	X	0	0	0	%100
22	M25A	Z	0	0	0	%100
23	M26A	X	0	0	0	%100
24	M26A	Z	0	0	0	%100
25	M29	X	0	0	0	%100
26	M29	Z	-6.113	-6.113	0	%100
27	M30A	X	0	0	0	%100
28	M30A	Z	-6.113	-6.113	0	%100
29	M31A	X	0	0	0	%100
30	M31A	Z	-2.762	-2.762	0	%100
31	M32A	X	0	0	0	%100
32	M32A	Z	-2.762	-2.762	0	%100
33	M33	X	0	0	0	%100
34	M33	Z	-5.34	-5.34	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-2.302	-2.302	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-2.302	-2.302	0	%100
39	M34A	X	0	0	0	%100
40	M34A	Z	-2.762	-2.762	0	%100
41	M35A	X	0	0	0	%100
42	M35A	Z	-5.34	-5.34	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	-2.302	-2.302	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	-6.113	-6.113	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	-6.113	-6.113	0	%100
49	M29A	X	0	0	0	%100
50	M29A	Z	-3.617	-3.617	0	%100
51	MP1A	X	0	0	0	%100
52	MP1A	Z	-8.746	-8.746	0	%100
53	MP5A	X	0	0	0	%100
54	MP5A	Z	-8.746	-8.746	0	%100
55	MP3A	X	0	0	0	%100
56	MP3A	Z	-8.746	-8.746	0	%100
57	MP2A	X	0	0	0	%100
58	MP2A	Z	-10.588	-10.588	0	%100
59	MP4A	X	0	0	0	%100
60	MP4A	Z	-8.746	-8.746	0	%100
61	M45	X	0	0	0	%100
62	M45	Z	-9.729	-9.729	0	%100
63	M46	X	0	0	0	%100
64	M46	Z	-9.729	-9.729	0	%100
65	M47	X	0	0	0	%100
66	M47	Z	-.682	-.682	0	%100



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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	M6	X	.925	.925	0 %100
2	M6	Z	-1.601	-1.601	0 %100
3	M12	X	.925	.925	0 %100
4	M12	Z	-1.601	-1.601	0 %100
5	M18	X	1.841	1.841	0 %100
6	M18	Z	-3.189	-3.189	0 %100
7	M19	X	1.841	1.841	0 %100
8	M19	Z	-3.189	-3.189	0 %100
9	M20	X	1.508	1.508	0 %100
10	M20	Z	-2.613	-2.613	0 %100
11	M30	X	5.664	5.664	0 %100
12	M30	Z	-9.811	-9.811	0 %100
13	M21	X	3.093	3.093	0 %100
14	M21	Z	-5.357	-5.357	0 %100
15	M22	X	3.093	3.093	0 %100
16	M22	Z	-5.357	-5.357	0 %100
17	M23	X	.336	.336	0 %100
18	M23	Z	-.581	-.581	0 %100
19	M24	X	.336	.336	0 %100
20	M24	Z	-.581	-.581	0 %100
21	M25A	X	.336	.336	0 %100
22	M25A	Z	-.581	-.581	0 %100
23	M26A	X	.336	.336	0 %100
24	M26A	Z	-.581	-.581	0 %100
25	M29	X	2.292	2.292	0 %100
26	M29	Z	-3.971	-3.971	0 %100
27	M30A	X	2.292	2.292	0 %100
28	M30A	Z	-3.971	-3.971	0 %100
29	M31A	X	1.381	1.381	0 %100
30	M31A	Z	-2.392	-2.392	0 %100
31	M32A	X	1.381	1.381	0 %100
32	M32A	Z	-2.392	-2.392	0 %100
33	M33	X	2.67	2.67	0 %100
34	M33	Z	-4.625	-4.625	0 %100
35	M34	X	1.023	1.023	0 %100
36	M34	Z	-1.772	-1.772	0 %100
37	M35	X	1.023	1.023	0 %100
38	M35	Z	-1.772	-1.772	0 %100
39	M34A	X	1.381	1.381	0 %100
40	M34A	Z	-2.392	-2.392	0 %100
41	M35A	X	2.67	2.67	0 %100
42	M35A	Z	-4.625	-4.625	0 %100
43	M36	X	.961	.961	0 %100
44	M36	Z	-1.664	-1.664	0 %100
45	M37	X	2.292	2.292	0 %100
46	M37	Z	-3.971	-3.971	0 %100
47	M38	X	2.292	2.292	0 %100
48	M38	Z	-3.971	-3.971	0 %100
49	M29A	X	2.97	2.97	0 %100
50	M29A	Z	-5.143	-5.143	0 %100
51	MP1A	X	4.373	4.373	0 %100
52	MP1A	Z	-7.575	-7.575	0 %100
53	MP5A	X	4.373	4.373	0 %100
54	MP5A	Z	-7.575	-7.575	0 %100
55	MP3A	X	4.373	4.373	0 %100
56	MP3A	Z	-7.575	-7.575	0 %100
57	MP2A	X	5.294	5.294	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.%]
58	MP2A	Z	-9.169	-9.169	0	%100
59	MP4A	X	4.373	4.373	0	%100
60	MP4A	Z	-7.575	-7.575	0	%100
61	M45	X	6.832	6.832	0	%100
62	M45	Z	-11.834	-11.834	0	%100
63	M46	X	2.797	2.797	0	%100
64	M46	Z	-4.844	-4.844	0	%100
65	M47	X	2.005	2.005	0	%100
66	M47	Z	-3.473	-3.473	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	M6	X	4.804	4.804	0	%100
2	M6	Z	-2.774	-2.774	0	%100
3	M12	X	4.804	4.804	0	%100
4	M12	Z	-2.774	-2.774	0	%100
5	M18	X	3.189	3.189	0	%100
6	M18	Z	-1.841	-1.841	0	%100
7	M19	X	3.189	3.189	0	%100
8	M19	Z	-1.841	-1.841	0	%100
9	M20	X	2.997	2.997	0	%100
10	M20	Z	-1.73	-1.73	0	%100
11	M30	X	9.811	9.811	0	%100
12	M30	Z	-5.664	-5.664	0	%100
13	M21	X	1.786	1.786	0	%100
14	M21	Z	-1.031	-1.031	0	%100
15	M22	X	1.786	1.786	0	%100
16	M22	Z	-1.031	-1.031	0	%100
17	M23	X	1.744	1.744	0	%100
18	M23	Z	-1.007	-1.007	0	%100
19	M24	X	1.744	1.744	0	%100
20	M24	Z	-1.007	-1.007	0	%100
21	M25A	X	1.744	1.744	0	%100
22	M25A	Z	-1.007	-1.007	0	%100
23	M26A	X	1.744	1.744	0	%100
24	M26A	Z	-1.007	-1.007	0	%100
25	M29	X	1.324	1.324	0	%100
26	M29	Z	-.764	-.764	0	%100
27	M30A	X	1.324	1.324	0	%100
28	M30A	Z	-.764	-.764	0	%100
29	M31A	X	2.392	2.392	0	%100
30	M31A	Z	-1.381	-1.381	0	%100
31	M32A	X	2.392	2.392	0	%100
32	M32A	Z	-1.381	-1.381	0	%100
33	M33	X	4.625	4.625	0	%100
34	M33	Z	-2.67	-2.67	0	%100
35	M34	X	1.328	1.328	0	%100
36	M34	Z	-.767	-.767	0	%100
37	M35	X	1.328	1.328	0	%100
38	M35	Z	-.767	-.767	0	%100
39	M34A	X	2.392	2.392	0	%100
40	M34A	Z	-1.381	-1.381	0	%100
41	M35A	X	4.625	4.625	0	%100
42	M35A	Z	-2.67	-2.67	0	%100
43	M36	X	1.007	1.007	0	%100
44	M36	Z	-.581	-.581	0	%100



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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,%]
45	M37	X	1.324	1.324	0 %100
46	M37	Z	-0.764	-0.764	0 %100
47	M38	X	1.324	1.324	0 %100
48	M38	Z	-0.764	-0.764	0 %100
49	M29A	X	4.658	4.658	0 %100
50	M29A	Z	-2.689	-2.689	0 %100
51	MP1A	X	7.575	7.575	0 %100
52	MP1A	Z	-4.373	-4.373	0 %100
53	MP5A	X	7.575	7.575	0 %100
54	MP5A	Z	-4.373	-4.373	0 %100
55	MP3A	X	7.575	7.575	0 %100
56	MP3A	Z	-4.373	-4.373	0 %100
57	MP2A	X	9.169	9.169	0 %100
58	MP2A	Z	-5.294	-5.294	0 %100
59	MP4A	X	7.575	7.575	0 %100
60	MP4A	Z	-4.373	-4.373	0 %100
61	M45	X	11.66	11.66	0 %100
62	M45	Z	-6.732	-6.732	0 %100
63	M46	X	4.67	4.67	0 %100
64	M46	Z	-2.697	-2.697	0 %100
65	M47	X	6.049	6.049	0 %100
66	M47	Z	-3.492	-3.492	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	M6	X	7.397	7.397	0 %100
2	M6	Z	0	0	0 %100
3	M12	X	7.397	7.397	0 %100
4	M12	Z	0	0	0 %100
5	M18	X	3.683	3.683	0 %100
6	M18	Z	0	0	0 %100
7	M19	X	3.683	3.683	0 %100
8	M19	Z	0	0	0 %100
9	M20	X	3.683	3.683	0 %100
10	M20	Z	0	0	0 %100
11	M30	X	11.329	11.329	0 %100
12	M30	Z	0	0	0 %100
13	M21	X	0	0	0 %100
14	M21	Z	0	0	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	0	0	0 %100
17	M23	X	2.685	2.685	0 %100
18	M23	Z	0	0	0 %100
19	M24	X	2.685	2.685	0 %100
20	M24	Z	0	0	0 %100
21	M25A	X	2.685	2.685	0 %100
22	M25A	Z	0	0	0 %100
23	M26A	X	2.685	2.685	0 %100
24	M26A	Z	0	0	0 %100
25	M29	X	0	0	0 %100
26	M29	Z	0	0	0 %100
27	M30A	X	0	0	0 %100
28	M30A	Z	0	0	0 %100
29	M31A	X	2.762	2.762	0 %100
30	M31A	Z	0	0	0 %100
31	M32A	X	2.762	2.762	0 %100



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,%]
32	M32A	Z	0	0	0	%100
33	M33	X	5.34	5.34	0	%100
34	M33	Z	0	0	0	%100
35	M34	X	1.278	1.278	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	1.278	1.278	0	%100
38	M35	Z	0	0	0	%100
39	M34A	X	2.762	2.762	0	%100
40	M34A	Z	0	0	0	%100
41	M35A	X	5.34	5.34	0	%100
42	M35A	Z	0	0	0	%100
43	M36	X	.783	.783	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	0	0	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	0	0	0	%100
49	M29A	X	2.496	2.496	0	%100
50	M29A	Z	0	0	0	%100
51	MP1A	X	8.746	8.746	0	%100
52	MP1A	Z	0	0	0	%100
53	MP5A	X	8.746	8.746	0	%100
54	MP5A	Z	0	0	0	%100
55	MP3A	X	8.746	8.746	0	%100
56	MP3A	Z	0	0	0	%100
57	MP2A	X	10.588	10.588	0	%100
58	MP2A	Z	0	0	0	%100
59	MP4A	X	8.746	8.746	0	%100
60	MP4A	Z	0	0	0	%100
61	M45	X	9.329	9.329	0	%100
62	M45	Z	0	0	0	%100
63	M46	X	9.329	9.329	0	%100
64	M46	Z	0	0	0	%100
65	M47	X	6.63	6.63	0	%100
66	M47	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	M6	X	4.804	4.804	0	%100
2	M6	Z	2.774	2.774	0	%100
3	M12	X	4.804	4.804	0	%100
4	M12	Z	2.774	2.774	0	%100
5	M18	X	3.189	3.189	0	%100
6	M18	Z	1.841	1.841	0	%100
7	M19	X	3.189	3.189	0	%100
8	M19	Z	1.841	1.841	0	%100
9	M20	X	2.997	2.997	0	%100
10	M20	Z	1.73	1.73	0	%100
11	M30	X	9.811	9.811	0	%100
12	M30	Z	5.664	5.664	0	%100
13	M21	X	1.786	1.786	0	%100
14	M21	Z	1.031	1.031	0	%100
15	M22	X	1.786	1.786	0	%100
16	M22	Z	1.031	1.031	0	%100
17	M23	X	1.744	1.744	0	%100
18	M23	Z	1.007	1.007	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-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.%]
19	M24	X	1.744	1.744	0	%100
20	M24	Z	1.007	1.007	0	%100
21	M25A	X	1.744	1.744	0	%100
22	M25A	Z	1.007	1.007	0	%100
23	M26A	X	1.744	1.744	0	%100
24	M26A	Z	1.007	1.007	0	%100
25	M29	X	1.324	1.324	0	%100
26	M29	Z	.764	.764	0	%100
27	M30A	X	1.324	1.324	0	%100
28	M30A	Z	.764	.764	0	%100
29	M31A	X	2.392	2.392	0	%100
30	M31A	Z	1.381	1.381	0	%100
31	M32A	X	2.392	2.392	0	%100
32	M32A	Z	1.381	1.381	0	%100
33	M33	X	4.625	4.625	0	%100
34	M33	Z	2.67	2.67	0	%100
35	M34	X	1.328	1.328	0	%100
36	M34	Z	.767	.767	0	%100
37	M35	X	1.328	1.328	0	%100
38	M35	Z	.767	.767	0	%100
39	M34A	X	2.392	2.392	0	%100
40	M34A	Z	1.381	1.381	0	%100
41	M35A	X	4.625	4.625	0	%100
42	M35A	Z	2.67	2.67	0	%100
43	M36	X	1.007	1.007	0	%100
44	M36	Z	.581	.581	0	%100
45	M37	X	1.324	1.324	0	%100
46	M37	Z	.764	.764	0	%100
47	M38	X	1.324	1.324	0	%100
48	M38	Z	.764	.764	0	%100
49	M29A	X	.151	.151	0	%100
50	M29A	Z	.087	.087	0	%100
51	MP1A	X	7.575	7.575	0	%100
52	MP1A	Z	4.373	4.373	0	%100
53	MP5A	X	7.575	7.575	0	%100
54	MP5A	Z	4.373	4.373	0	%100
55	MP3A	X	7.575	7.575	0	%100
56	MP3A	Z	4.373	4.373	0	%100
57	MP2A	X	9.169	9.169	0	%100
58	MP2A	Z	5.294	5.294	0	%100
59	MP4A	X	7.575	7.575	0	%100
60	MP4A	Z	4.373	4.373	0	%100
61	M45	X	4.67	4.67	0	%100
62	M45	Z	2.697	2.697	0	%100
63	M46	X	11.66	11.66	0	%100
64	M46	Z	6.732	6.732	0	%100
65	M47	X	2.859	2.859	0	%100
66	M47	Z	1.651	1.651	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	M6	X	.925	.925	0	%100
2	M6	Z	1.601	1.601	0	%100
3	M12	X	.925	.925	0	%100
4	M12	Z	1.601	1.601	0	%100
5	M18	X	1.841	1.841	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

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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,%]
6	M18	Z	3.189	3.189	0 %100
7	M19	X	1.841	1.841	0 %100
8	M19	Z	3.189	3.189	0 %100
9	M20	X	1.508	1.508	0 %100
10	M20	Z	2.613	2.613	0 %100
11	M30	X	5.664	5.664	0 %100
12	M30	Z	9.811	9.811	0 %100
13	M21	X	3.093	3.093	0 %100
14	M21	Z	5.357	5.357	0 %100
15	M22	X	3.093	3.093	0 %100
16	M22	Z	5.357	5.357	0 %100
17	M23	X	.336	.336	0 %100
18	M23	Z	.581	.581	0 %100
19	M24	X	.336	.336	0 %100
20	M24	Z	.581	.581	0 %100
21	M25A	X	.336	.336	0 %100
22	M25A	Z	.581	.581	0 %100
23	M26A	X	.336	.336	0 %100
24	M26A	Z	.581	.581	0 %100
25	M29	X	2.292	2.292	0 %100
26	M29	Z	3.971	3.971	0 %100
27	M30A	X	2.292	2.292	0 %100
28	M30A	Z	3.971	3.971	0 %100
29	M31A	X	1.381	1.381	0 %100
30	M31A	Z	2.392	2.392	0 %100
31	M32A	X	1.381	1.381	0 %100
32	M32A	Z	2.392	2.392	0 %100
33	M33	X	2.67	2.67	0 %100
34	M33	Z	4.625	4.625	0 %100
35	M34	X	1.023	1.023	0 %100
36	M34	Z	1.772	1.772	0 %100
37	M35	X	1.023	1.023	0 %100
38	M35	Z	1.772	1.772	0 %100
39	M34A	X	1.381	1.381	0 %100
40	M34A	Z	2.392	2.392	0 %100
41	M35A	X	2.67	2.67	0 %100
42	M35A	Z	4.625	4.625	0 %100
43	M36	X	.961	.961	0 %100
44	M36	Z	1.664	1.664	0 %100
45	M37	X	2.292	2.292	0 %100
46	M37	Z	3.971	3.971	0 %100
47	M38	X	2.292	2.292	0 %100
48	M38	Z	3.971	3.971	0 %100
49	M29A	X	.367	.367	0 %100
50	M29A	Z	.636	.636	0 %100
51	MP1A	X	4.373	4.373	0 %100
52	MP1A	Z	7.575	7.575	0 %100
53	MP5A	X	4.373	4.373	0 %100
54	MP5A	Z	7.575	7.575	0 %100
55	MP3A	X	4.373	4.373	0 %100
56	MP3A	Z	7.575	7.575	0 %100
57	MP2A	X	5.294	5.294	0 %100
58	MP2A	Z	9.169	9.169	0 %100
59	MP4A	X	4.373	4.373	0 %100
60	MP4A	Z	7.575	7.575	0 %100
61	M45	X	2.797	2.797	0 %100
62	M45	Z	4.844	4.844	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

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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.%]
63	M46	X	6.832	6.832	0	%100
64	M46	Z	11.834	11.834	0	%100
65	M47	X	.164	.164	0	%100
66	M47	Z	.283	.283	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	M6	X	0	0	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	0	0	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	0	0	0	%100
6	M18	Z	3.683	3.683	0	%100
7	M19	X	0	0	0	%100
8	M19	Z	3.683	3.683	0	%100
9	M20	X	0	0	0	%100
10	M20	Z	2.795	2.795	0	%100
11	M30	X	0	0	0	%100
12	M30	Z	11.329	11.329	0	%100
13	M21	X	0	0	0	%100
14	M21	Z	8.248	8.248	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	8.248	8.248	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M25A	X	0	0	0	%100
22	M25A	Z	0	0	0	%100
23	M26A	X	0	0	0	%100
24	M26A	Z	0	0	0	%100
25	M29	X	0	0	0	%100
26	M29	Z	6.113	6.113	0	%100
27	M30A	X	0	0	0	%100
28	M30A	Z	6.113	6.113	0	%100
29	M31A	X	0	0	0	%100
30	M31A	Z	2.762	2.762	0	%100
31	M32A	X	0	0	0	%100
32	M32A	Z	2.762	2.762	0	%100
33	M33	X	0	0	0	%100
34	M33	Z	5.34	5.34	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	2.302	2.302	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	2.302	2.302	0	%100
39	M34A	X	0	0	0	%100
40	M34A	Z	2.762	2.762	0	%100
41	M35A	X	0	0	0	%100
42	M35A	Z	5.34	5.34	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	2.302	2.302	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	6.113	6.113	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	6.113	6.113	0	%100
49	M29A	X	0	0	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,%]
50	M29A	Z	3.617	3.617	0 %100
51	MP1A	X	0	0	0 %100
52	MP1A	Z	8.746	8.746	0 %100
53	MP5A	X	0	0	0 %100
54	MP5A	Z	8.746	8.746	0 %100
55	MP3A	X	0	0	0 %100
56	MP3A	Z	8.746	8.746	0 %100
57	MP2A	X	0	0	0 %100
58	MP2A	Z	10.588	10.588	0 %100
59	MP4A	X	0	0	0 %100
60	MP4A	Z	8.746	8.746	0 %100
61	M45	X	0	0	0 %100
62	M45	Z	9.729	9.729	0 %100
63	M46	X	0	0	0 %100
64	M46	Z	9.729	9.729	0 %100
65	M47	X	0	0	0 %100
66	M47	Z	.682	.682	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	M6	X	-.925	-.925	0 %100
2	M6	Z	1.601	1.601	0 %100
3	M12	X	-.925	-.925	0 %100
4	M12	Z	1.601	1.601	0 %100
5	M18	X	-1.841	-1.841	0 %100
6	M18	Z	3.189	3.189	0 %100
7	M19	X	-1.841	-1.841	0 %100
8	M19	Z	3.189	3.189	0 %100
9	M20	X	-1.508	-1.508	0 %100
10	M20	Z	2.613	2.613	0 %100
11	M30	X	-5.664	-5.664	0 %100
12	M30	Z	9.811	9.811	0 %100
13	M21	X	-3.093	-3.093	0 %100
14	M21	Z	5.357	5.357	0 %100
15	M22	X	-3.093	-3.093	0 %100
16	M22	Z	5.357	5.357	0 %100
17	M23	X	-.336	-.336	0 %100
18	M23	Z	.581	.581	0 %100
19	M24	X	-.336	-.336	0 %100
20	M24	Z	.581	.581	0 %100
21	M25A	X	-.336	-.336	0 %100
22	M25A	Z	.581	.581	0 %100
23	M26A	X	-.336	-.336	0 %100
24	M26A	Z	.581	.581	0 %100
25	M29	X	-2.292	-2.292	0 %100
26	M29	Z	3.971	3.971	0 %100
27	M30A	X	-2.292	-2.292	0 %100
28	M30A	Z	3.971	3.971	0 %100
29	M31A	X	-1.381	-1.381	0 %100
30	M31A	Z	2.392	2.392	0 %100
31	M32A	X	-1.381	-1.381	0 %100
32	M32A	Z	2.392	2.392	0 %100
33	M33	X	-2.67	-2.67	0 %100
34	M33	Z	4.625	4.625	0 %100
35	M34	X	-1.023	-1.023	0 %100
36	M34	Z	1.772	1.772	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-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,%]
37	M35	X	-1.023	-1.023	0 %100
38	M35	Z	1.772	1.772	0 %100
39	M34A	X	-1.381	-1.381	0 %100
40	M34A	Z	2.392	2.392	0 %100
41	M35A	X	-2.67	-2.67	0 %100
42	M35A	Z	4.625	4.625	0 %100
43	M36	X	-.961	-.961	0 %100
44	M36	Z	1.664	1.664	0 %100
45	M37	X	-2.292	-2.292	0 %100
46	M37	Z	3.971	3.971	0 %100
47	M38	X	-2.292	-2.292	0 %100
48	M38	Z	3.971	3.971	0 %100
49	M29A	X	-2.97	-2.97	0 %100
50	M29A	Z	5.143	5.143	0 %100
51	MP1A	X	-4.373	-4.373	0 %100
52	MP1A	Z	7.575	7.575	0 %100
53	MP5A	X	-4.373	-4.373	0 %100
54	MP5A	Z	7.575	7.575	0 %100
55	MP3A	X	-4.373	-4.373	0 %100
56	MP3A	Z	7.575	7.575	0 %100
57	MP2A	X	-5.294	-5.294	0 %100
58	MP2A	Z	9.169	9.169	0 %100
59	MP4A	X	-4.373	-4.373	0 %100
60	MP4A	Z	7.575	7.575	0 %100
61	M45	X	-6.832	-6.832	0 %100
62	M45	Z	11.834	11.834	0 %100
63	M46	X	-2.797	-2.797	0 %100
64	M46	Z	4.844	4.844	0 %100
65	M47	X	-2.005	-2.005	0 %100
66	M47	Z	3.473	3.473	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	M6	X	-4.804	-4.804	0 %100
2	M6	Z	2.774	2.774	0 %100
3	M12	X	-4.804	-4.804	0 %100
4	M12	Z	2.774	2.774	0 %100
5	M18	X	-3.189	-3.189	0 %100
6	M18	Z	1.841	1.841	0 %100
7	M19	X	-3.189	-3.189	0 %100
8	M19	Z	1.841	1.841	0 %100
9	M20	X	-2.997	-2.997	0 %100
10	M20	Z	1.73	1.73	0 %100
11	M30	X	-9.811	-9.811	0 %100
12	M30	Z	5.664	5.664	0 %100
13	M21	X	-1.786	-1.786	0 %100
14	M21	Z	1.031	1.031	0 %100
15	M22	X	-1.786	-1.786	0 %100
16	M22	Z	1.031	1.031	0 %100
17	M23	X	-1.744	-1.744	0 %100
18	M23	Z	1.007	1.007	0 %100
19	M24	X	-1.744	-1.744	0 %100
20	M24	Z	1.007	1.007	0 %100
21	M25A	X	-1.744	-1.744	0 %100
22	M25A	Z	1.007	1.007	0 %100
23	M26A	X	-1.744	-1.744	0 %100



Company : GPD
 Designer : enieto
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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.%]
24	M26A	Z	1.007	1.007	0	%100
25	M29	X	-1.324	-1.324	0	%100
26	M29	Z	.764	.764	0	%100
27	M30A	X	-1.324	-1.324	0	%100
28	M30A	Z	.764	.764	0	%100
29	M31A	X	-2.392	-2.392	0	%100
30	M31A	Z	1.381	1.381	0	%100
31	M32A	X	-2.392	-2.392	0	%100
32	M32A	Z	1.381	1.381	0	%100
33	M33	X	-4.625	-4.625	0	%100
34	M33	Z	2.67	2.67	0	%100
35	M34	X	-1.328	-1.328	0	%100
36	M34	Z	.767	.767	0	%100
37	M35	X	-1.328	-1.328	0	%100
38	M35	Z	.767	.767	0	%100
39	M34A	X	-2.392	-2.392	0	%100
40	M34A	Z	1.381	1.381	0	%100
41	M35A	X	-4.625	-4.625	0	%100
42	M35A	Z	2.67	2.67	0	%100
43	M36	X	-1.007	-1.007	0	%100
44	M36	Z	.581	.581	0	%100
45	M37	X	-1.324	-1.324	0	%100
46	M37	Z	.764	.764	0	%100
47	M38	X	-1.324	-1.324	0	%100
48	M38	Z	.764	.764	0	%100
49	M29A	X	-4.658	-4.658	0	%100
50	M29A	Z	2.689	2.689	0	%100
51	MP1A	X	-7.575	-7.575	0	%100
52	MP1A	Z	4.373	4.373	0	%100
53	MP5A	X	-7.575	-7.575	0	%100
54	MP5A	Z	4.373	4.373	0	%100
55	MP3A	X	-7.575	-7.575	0	%100
56	MP3A	Z	4.373	4.373	0	%100
57	MP2A	X	-9.169	-9.169	0	%100
58	MP2A	Z	5.294	5.294	0	%100
59	MP4A	X	-7.575	-7.575	0	%100
60	MP4A	Z	4.373	4.373	0	%100
61	M45	X	-11.66	-11.66	0	%100
62	M45	Z	6.732	6.732	0	%100
63	M46	X	-4.67	-4.67	0	%100
64	M46	Z	2.697	2.697	0	%100
65	M47	X	-6.049	-6.049	0	%100
66	M47	Z	3.492	3.492	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	M6	X	-7.397	-7.397	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	-7.397	-7.397	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	-3.683	-3.683	0	%100
6	M18	Z	0	0	0	%100
7	M19	X	-3.683	-3.683	0	%100
8	M19	Z	0	0	0	%100
9	M20	X	-3.683	-3.683	0	%100
10	M20	Z	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

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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,%]
11	M30	X	-11.329	-11.329	0 %100
12	M30	Z	0	0	0 %100
13	M21	X	0	0	0 %100
14	M21	Z	0	0	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	0	0	0 %100
17	M23	X	-2.685	-2.685	0 %100
18	M23	Z	0	0	0 %100
19	M24	X	-2.685	-2.685	0 %100
20	M24	Z	0	0	0 %100
21	M25A	X	-2.685	-2.685	0 %100
22	M25A	Z	0	0	0 %100
23	M26A	X	-2.685	-2.685	0 %100
24	M26A	Z	0	0	0 %100
25	M29	X	0	0	0 %100
26	M29	Z	0	0	0 %100
27	M30A	X	0	0	0 %100
28	M30A	Z	0	0	0 %100
29	M31A	X	-2.762	-2.762	0 %100
30	M31A	Z	0	0	0 %100
31	M32A	X	-2.762	-2.762	0 %100
32	M32A	Z	0	0	0 %100
33	M33	X	-5.34	-5.34	0 %100
34	M33	Z	0	0	0 %100
35	M34	X	-1.278	-1.278	0 %100
36	M34	Z	0	0	0 %100
37	M35	X	-1.278	-1.278	0 %100
38	M35	Z	0	0	0 %100
39	M34A	X	-2.762	-2.762	0 %100
40	M34A	Z	0	0	0 %100
41	M35A	X	-5.34	-5.34	0 %100
42	M35A	Z	0	0	0 %100
43	M36	X	-.783	-.783	0 %100
44	M36	Z	0	0	0 %100
45	M37	X	0	0	0 %100
46	M37	Z	0	0	0 %100
47	M38	X	0	0	0 %100
48	M38	Z	0	0	0 %100
49	M29A	X	-2.496	-2.496	0 %100
50	M29A	Z	0	0	0 %100
51	MP1A	X	-8.746	-8.746	0 %100
52	MP1A	Z	0	0	0 %100
53	MP5A	X	-8.746	-8.746	0 %100
54	MP5A	Z	0	0	0 %100
55	MP3A	X	-8.746	-8.746	0 %100
56	MP3A	Z	0	0	0 %100
57	MP2A	X	-10.588	-10.588	0 %100
58	MP2A	Z	0	0	0 %100
59	MP4A	X	-8.746	-8.746	0 %100
60	MP4A	Z	0	0	0 %100
61	M45	X	-9.329	-9.329	0 %100
62	M45	Z	0	0	0 %100
63	M46	X	-9.329	-9.329	0 %100
64	M46	Z	0	0	0 %100
65	M47	X	-6.63	-6.63	0 %100
66	M47	Z	0	0	0 %100



Company : GPD
 Designer : enieto
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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	M6	X	-4.804	-4.804	0 %100
2	M6	Z	-2.774	-2.774	0 %100
3	M12	X	-4.804	-4.804	0 %100
4	M12	Z	-2.774	-2.774	0 %100
5	M18	X	-3.189	-3.189	0 %100
6	M18	Z	-1.841	-1.841	0 %100
7	M19	X	-3.189	-3.189	0 %100
8	M19	Z	-1.841	-1.841	0 %100
9	M20	X	-2.997	-2.997	0 %100
10	M20	Z	-1.73	-1.73	0 %100
11	M30	X	-9.811	-9.811	0 %100
12	M30	Z	-5.664	-5.664	0 %100
13	M21	X	-1.786	-1.786	0 %100
14	M21	Z	-1.031	-1.031	0 %100
15	M22	X	-1.786	-1.786	0 %100
16	M22	Z	-1.031	-1.031	0 %100
17	M23	X	-1.744	-1.744	0 %100
18	M23	Z	-1.007	-1.007	0 %100
19	M24	X	-1.744	-1.744	0 %100
20	M24	Z	-1.007	-1.007	0 %100
21	M25A	X	-1.744	-1.744	0 %100
22	M25A	Z	-1.007	-1.007	0 %100
23	M26A	X	-1.744	-1.744	0 %100
24	M26A	Z	-1.007	-1.007	0 %100
25	M29	X	-1.324	-1.324	0 %100
26	M29	Z	-.764	-.764	0 %100
27	M30A	X	-1.324	-1.324	0 %100
28	M30A	Z	-.764	-.764	0 %100
29	M31A	X	-2.392	-2.392	0 %100
30	M31A	Z	-1.381	-1.381	0 %100
31	M32A	X	-2.392	-2.392	0 %100
32	M32A	Z	-1.381	-1.381	0 %100
33	M33	X	-4.625	-4.625	0 %100
34	M33	Z	-2.67	-2.67	0 %100
35	M34	X	-1.328	-1.328	0 %100
36	M34	Z	-.767	-.767	0 %100
37	M35	X	-1.328	-1.328	0 %100
38	M35	Z	-.767	-.767	0 %100
39	M34A	X	-2.392	-2.392	0 %100
40	M34A	Z	-1.381	-1.381	0 %100
41	M35A	X	-4.625	-4.625	0 %100
42	M35A	Z	-2.67	-2.67	0 %100
43	M36	X	-1.007	-1.007	0 %100
44	M36	Z	-.581	-.581	0 %100
45	M37	X	-1.324	-1.324	0 %100
46	M37	Z	-.764	-.764	0 %100
47	M38	X	-1.324	-1.324	0 %100
48	M38	Z	-.764	-.764	0 %100
49	M29A	X	-.151	-.151	0 %100
50	M29A	Z	-.087	-.087	0 %100
51	MP1A	X	-7.575	-7.575	0 %100
52	MP1A	Z	-4.373	-4.373	0 %100
53	MP5A	X	-7.575	-7.575	0 %100
54	MP5A	Z	-4.373	-4.373	0 %100
55	MP3A	X	-7.575	-7.575	0 %100
56	MP3A	Z	-4.373	-4.373	0 %100
57	MP2A	X	-9.169	-9.169	0 %100



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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.%]
58	MP2A	Z	-5.294	-5.294	0 %100
59	MP4A	X	-7.575	-7.575	0 %100
60	MP4A	Z	-4.373	-4.373	0 %100
61	M45	X	-4.67	-4.67	0 %100
62	M45	Z	-2.697	-2.697	0 %100
63	M46	X	-11.66	-11.66	0 %100
64	M46	Z	-6.732	-6.732	0 %100
65	M47	X	-2.859	-2.859	0 %100
66	M47	Z	-1.651	-1.651	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	M6	X	-.925	-.925	0 %100
2	M6	Z	-1.601	-1.601	0 %100
3	M12	X	-.925	-.925	0 %100
4	M12	Z	-1.601	-1.601	0 %100
5	M18	X	-1.841	-1.841	0 %100
6	M18	Z	-3.189	-3.189	0 %100
7	M19	X	-1.841	-1.841	0 %100
8	M19	Z	-3.189	-3.189	0 %100
9	M20	X	-1.508	-1.508	0 %100
10	M20	Z	-2.613	-2.613	0 %100
11	M30	X	-5.664	-5.664	0 %100
12	M30	Z	-9.811	-9.811	0 %100
13	M21	X	-3.093	-3.093	0 %100
14	M21	Z	-5.357	-5.357	0 %100
15	M22	X	-3.093	-3.093	0 %100
16	M22	Z	-5.357	-5.357	0 %100
17	M23	X	-.336	-.336	0 %100
18	M23	Z	-.581	-.581	0 %100
19	M24	X	-.336	-.336	0 %100
20	M24	Z	-.581	-.581	0 %100
21	M25A	X	-.336	-.336	0 %100
22	M25A	Z	-.581	-.581	0 %100
23	M26A	X	-.336	-.336	0 %100
24	M26A	Z	-.581	-.581	0 %100
25	M29	X	-2.292	-2.292	0 %100
26	M29	Z	-3.971	-3.971	0 %100
27	M30A	X	-2.292	-2.292	0 %100
28	M30A	Z	-3.971	-3.971	0 %100
29	M31A	X	-1.381	-1.381	0 %100
30	M31A	Z	-2.392	-2.392	0 %100
31	M32A	X	-1.381	-1.381	0 %100
32	M32A	Z	-2.392	-2.392	0 %100
33	M33	X	-2.67	-2.67	0 %100
34	M33	Z	-4.625	-4.625	0 %100
35	M34	X	-1.023	-1.023	0 %100
36	M34	Z	-1.772	-1.772	0 %100
37	M35	X	-1.023	-1.023	0 %100
38	M35	Z	-1.772	-1.772	0 %100
39	M34A	X	-1.381	-1.381	0 %100
40	M34A	Z	-2.392	-2.392	0 %100
41	M35A	X	-2.67	-2.67	0 %100
42	M35A	Z	-4.625	-4.625	0 %100
43	M36	X	-.961	-.961	0 %100
44	M36	Z	-1.664	-1.664	0 %100



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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,%]
45	M37	X	-2.292	-2.292	0 %100
46	M37	Z	-3.971	-3.971	0 %100
47	M38	X	-2.292	-2.292	0 %100
48	M38	Z	-3.971	-3.971	0 %100
49	M29A	X	-.367	-.367	0 %100
50	M29A	Z	-.636	-.636	0 %100
51	MP1A	X	-4.373	-4.373	0 %100
52	MP1A	Z	-7.575	-7.575	0 %100
53	MP5A	X	-4.373	-4.373	0 %100
54	MP5A	Z	-7.575	-7.575	0 %100
55	MP3A	X	-4.373	-4.373	0 %100
56	MP3A	Z	-7.575	-7.575	0 %100
57	MP2A	X	-5.294	-5.294	0 %100
58	MP2A	Z	-9.169	-9.169	0 %100
59	MP4A	X	-4.373	-4.373	0 %100
60	MP4A	Z	-7.575	-7.575	0 %100
61	M45	X	-2.797	-2.797	0 %100
62	M45	Z	-4.844	-4.844	0 %100
63	M46	X	-6.832	-6.832	0 %100
64	M46	Z	-11.834	-11.834	0 %100
65	M47	X	-.164	-.164	0 %100
66	M47	Z	-.283	-.283	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	M6	X	0	0	0 %100
2	M6	Z	0	0	0 %100
3	M12	X	0	0	0 %100
4	M12	Z	0	0	0 %100
5	M18	X	0	0	0 %100
6	M18	Z	-1.714	-1.714	0 %100
7	M19	X	0	0	0 %100
8	M19	Z	-1.714	-1.714	0 %100
9	M20	X	0	0	0 %100
10	M20	Z	-1.339	-1.339	0 %100
11	M30	X	0	0	0 %100
12	M30	Z	-3.606	-3.606	0 %100
13	M21	X	0	0	0 %100
14	M21	Z	-2.579	-2.579	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	-2.579	-2.579	0 %100
17	M23	X	0	0	0 %100
18	M23	Z	0	0	0 %100
19	M24	X	0	0	0 %100
20	M24	Z	0	0	0 %100
21	M25A	X	0	0	0 %100
22	M25A	Z	0	0	0 %100
23	M26A	X	0	0	0 %100
24	M26A	Z	0	0	0 %100
25	M29	X	0	0	0 %100
26	M29	Z	-2.436	-2.436	0 %100
27	M30A	X	0	0	0 %100
28	M30A	Z	-2.436	-2.436	0 %100
29	M31A	X	0	0	0 %100
30	M31A	Z	-1.562	-1.562	0 %100
31	M32A	X	0	0	0 %100



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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,%]
32	M32A	Z	-1.562	-1.562	0	%100
33	M33	X	0	0	0	%100
34	M33	Z	-1.988	-1.988	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-1.602	-1.602	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-1.602	-1.602	0	%100
39	M34A	X	0	0	0	%100
40	M34A	Z	-1.562	-1.562	0	%100
41	M35A	X	0	0	0	%100
42	M35A	Z	-1.988	-1.988	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	-1.729	-1.729	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	-2.436	-2.436	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	-2.436	-2.436	0	%100
49	M29A	X	0	0	0	%100
50	M29A	Z	-1.441	-1.441	0	%100
51	MP1A	X	0	0	0	%100
52	MP1A	Z	-2.871	-2.871	0	%100
53	MP5A	X	0	0	0	%100
54	MP5A	Z	-2.871	-2.871	0	%100
55	MP3A	X	0	0	0	%100
56	MP3A	Z	-2.871	-2.871	0	%100
57	MP2A	X	0	0	0	%100
58	MP2A	Z	-3.175	-3.175	0	%100
59	MP4A	X	0	0	0	%100
60	MP4A	Z	-2.871	-2.871	0	%100
61	M45	X	0	0	0	%100
62	M45	Z	-2.528	-2.528	0	%100
63	M46	X	0	0	0	%100
64	M46	Z	-2.528	-2.528	0	%100
65	M47	X	0	0	0	%100
66	M47	Z	-.224	-.224	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	M6	X	.285	.285	0	%100
2	M6	Z	-.493	-.493	0	%100
3	M12	X	.285	.285	0	%100
4	M12	Z	-.493	-.493	0	%100
5	M18	X	.857	.857	0	%100
6	M18	Z	-1.484	-1.484	0	%100
7	M19	X	.857	.857	0	%100
8	M19	Z	-1.484	-1.484	0	%100
9	M20	X	.723	.723	0	%100
10	M20	Z	-1.252	-1.252	0	%100
11	M30	X	1.803	1.803	0	%100
12	M30	Z	-3.123	-3.123	0	%100
13	M21	X	.967	.967	0	%100
14	M21	Z	-1.675	-1.675	0	%100
15	M22	X	.967	.967	0	%100
16	M22	Z	-1.675	-1.675	0	%100
17	M23	X	.159	.159	0	%100
18	M23	Z	-.276	-.276	0	%100



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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.%]
19	M24	X	.159	.159	0 %100
20	M24	Z	-.276	-.276	0 %100
21	M25A	X	.159	.159	0 %100
22	M25A	Z	-.276	-.276	0 %100
23	M26A	X	.159	.159	0 %100
24	M26A	Z	-.276	-.276	0 %100
25	M29	X	.913	.913	0 %100
26	M29	Z	-1.582	-1.582	0 %100
27	M30A	X	.913	.913	0 %100
28	M30A	Z	-1.582	-1.582	0 %100
29	M31A	X	.781	.781	0 %100
30	M31A	Z	-1.353	-1.353	0 %100
31	M32A	X	.781	.781	0 %100
32	M32A	Z	-1.353	-1.353	0 %100
33	M33	X	.994	.994	0 %100
34	M33	Z	-1.721	-1.721	0 %100
35	M34	X	.712	.712	0 %100
36	M34	Z	-1.233	-1.233	0 %100
37	M35	X	.712	.712	0 %100
38	M35	Z	-1.233	-1.233	0 %100
39	M34A	X	.781	.781	0 %100
40	M34A	Z	-1.353	-1.353	0 %100
41	M35A	X	.994	.994	0 %100
42	M35A	Z	-1.721	-1.721	0 %100
43	M36	X	.722	.722	0 %100
44	M36	Z	-1.25	-1.25	0 %100
45	M37	X	.913	.913	0 %100
46	M37	Z	-1.582	-1.582	0 %100
47	M38	X	.913	.913	0 %100
48	M38	Z	-1.582	-1.582	0 %100
49	M29A	X	1.183	1.183	0 %100
50	M29A	Z	-2.049	-2.049	0 %100
51	MP1A	X	1.435	1.435	0 %100
52	MP1A	Z	-2.486	-2.486	0 %100
53	MP5A	X	1.435	1.435	0 %100
54	MP5A	Z	-2.486	-2.486	0 %100
55	MP3A	X	1.435	1.435	0 %100
56	MP3A	Z	-2.486	-2.486	0 %100
57	MP2A	X	1.587	1.587	0 %100
58	MP2A	Z	-2.75	-2.75	0 %100
59	MP4A	X	1.435	1.435	0 %100
60	MP4A	Z	-2.486	-2.486	0 %100
61	M45	X	1.775	1.775	0 %100
62	M45	Z	-3.075	-3.075	0 %100
63	M46	X	.727	.727	0 %100
64	M46	Z	-1.259	-1.259	0 %100
65	M47	X	.66	.66	0 %100
66	M47	Z	-1.143	-1.143	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	M6	X	1.479	1.479	0 %100
2	M6	Z	-.854	-.854	0 %100
3	M12	X	1.479	1.479	0 %100
4	M12	Z	-.854	-.854	0 %100
5	M18	X	1.484	1.484	0 %100



Company : GPD
 Designer : enieto
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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,%]
6	M18	Z	-.857	-.857	0	%100
7	M19	X	1.484	1.484	0	%100
8	M19	Z	-.857	-.857	0	%100
9	M20	X	1.436	1.436	0	%100
10	M20	Z	-.829	-.829	0	%100
11	M30	X	3.123	3.123	0	%100
12	M30	Z	-1.803	-1.803	0	%100
13	M21	X	.558	.558	0	%100
14	M21	Z	-.322	-.322	0	%100
15	M22	X	.558	.558	0	%100
16	M22	Z	-.322	-.322	0	%100
17	M23	X	.828	.828	0	%100
18	M23	Z	-.478	-.478	0	%100
19	M24	X	.828	.828	0	%100
20	M24	Z	-.478	-.478	0	%100
21	M25A	X	.828	.828	0	%100
22	M25A	Z	-.478	-.478	0	%100
23	M26A	X	.828	.828	0	%100
24	M26A	Z	-.478	-.478	0	%100
25	M29	X	.527	.527	0	%100
26	M29	Z	-.304	-.304	0	%100
27	M30A	X	.527	.527	0	%100
28	M30A	Z	-.304	-.304	0	%100
29	M31A	X	1.353	1.353	0	%100
30	M31A	Z	-.781	-.781	0	%100
31	M32A	X	1.353	1.353	0	%100
32	M32A	Z	-.781	-.781	0	%100
33	M33	X	1.721	1.721	0	%100
34	M33	Z	-.994	-.994	0	%100
35	M34	X	.924	.924	0	%100
36	M34	Z	-.534	-.534	0	%100
37	M35	X	.924	.924	0	%100
38	M35	Z	-.534	-.534	0	%100
39	M34A	X	1.353	1.353	0	%100
40	M34A	Z	-.781	-.781	0	%100
41	M35A	X	1.721	1.721	0	%100
42	M35A	Z	-.994	-.994	0	%100
43	M36	X	.756	.756	0	%100
44	M36	Z	-.436	-.436	0	%100
45	M37	X	.527	.527	0	%100
46	M37	Z	-.304	-.304	0	%100
47	M38	X	.527	.527	0	%100
48	M38	Z	-.304	-.304	0	%100
49	M29A	X	1.856	1.856	0	%100
50	M29A	Z	-1.071	-1.071	0	%100
51	MP1A	X	2.486	2.486	0	%100
52	MP1A	Z	-1.435	-1.435	0	%100
53	MP5A	X	2.486	2.486	0	%100
54	MP5A	Z	-1.435	-1.435	0	%100
55	MP3A	X	2.486	2.486	0	%100
56	MP3A	Z	-1.435	-1.435	0	%100
57	MP2A	X	2.75	2.75	0	%100
58	MP2A	Z	-1.587	-1.587	0	%100
59	MP4A	X	2.486	2.486	0	%100
60	MP4A	Z	-1.435	-1.435	0	%100
61	M45	X	3.03	3.03	0	%100
62	M45	Z	-1.749	-1.749	0	%100



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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.%]
63	M46	X	1.214	1.214	0	%100
64	M46	Z	-701	-701	0	%100
65	M47	X	1.99	1.99	0	%100
66	M47	Z	-1.149	-1.149	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	M6	X	2.278	2.278	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	2.278	2.278	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	1.714	1.714	0	%100
6	M18	Z	0	0	0	%100
7	M19	X	1.714	1.714	0	%100
8	M19	Z	0	0	0	%100
9	M20	X	1.764	1.764	0	%100
10	M20	Z	0	0	0	%100
11	M30	X	3.606	3.606	0	%100
12	M30	Z	0	0	0	%100
13	M21	X	0	0	0	%100
14	M21	Z	0	0	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	1.275	1.275	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	1.275	1.275	0	%100
20	M24	Z	0	0	0	%100
21	M25A	X	1.275	1.275	0	%100
22	M25A	Z	0	0	0	%100
23	M26A	X	1.275	1.275	0	%100
24	M26A	Z	0	0	0	%100
25	M29	X	0	0	0	%100
26	M29	Z	0	0	0	%100
27	M30A	X	0	0	0	%100
28	M30A	Z	0	0	0	%100
29	M31A	X	1.562	1.562	0	%100
30	M31A	Z	0	0	0	%100
31	M32A	X	1.562	1.562	0	%100
32	M32A	Z	0	0	0	%100
33	M33	X	1.988	1.988	0	%100
34	M33	Z	0	0	0	%100
35	M34	X	.889	.889	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	.889	.889	0	%100
38	M35	Z	0	0	0	%100
39	M34A	X	1.562	1.562	0	%100
40	M34A	Z	0	0	0	%100
41	M35A	X	1.988	1.988	0	%100
42	M35A	Z	0	0	0	%100
43	M36	X	.588	.588	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	0	0	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	0	0	0	%100
49	M29A	X	.995	.995	0	%100



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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,%]
50	M29A	Z	0	0	0	%100
51	MP1A	X	2.871	2.871	0	%100
52	MP1A	Z	0	0	0	%100
53	MP5A	X	2.871	2.871	0	%100
54	MP5A	Z	0	0	0	%100
55	MP3A	X	2.871	2.871	0	%100
56	MP3A	Z	0	0	0	%100
57	MP2A	X	3.175	3.175	0	%100
58	MP2A	Z	0	0	0	%100
59	MP4A	X	2.871	2.871	0	%100
60	MP4A	Z	0	0	0	%100
61	M45	X	2.424	2.424	0	%100
62	M45	Z	0	0	0	%100
63	M46	X	2.424	2.424	0	%100
64	M46	Z	0	0	0	%100
65	M47	X	2.181	2.181	0	%100
66	M47	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	M6	X	1.479	1.479	0	%100
2	M6	Z	.854	.854	0	%100
3	M12	X	1.479	1.479	0	%100
4	M12	Z	.854	.854	0	%100
5	M18	X	1.484	1.484	0	%100
6	M18	Z	.857	.857	0	%100
7	M19	X	1.484	1.484	0	%100
8	M19	Z	.857	.857	0	%100
9	M20	X	1.436	1.436	0	%100
10	M20	Z	.829	.829	0	%100
11	M30	X	3.123	3.123	0	%100
12	M30	Z	1.803	1.803	0	%100
13	M21	X	.558	.558	0	%100
14	M21	Z	.322	.322	0	%100
15	M22	X	.558	.558	0	%100
16	M22	Z	.322	.322	0	%100
17	M23	X	.828	.828	0	%100
18	M23	Z	.478	.478	0	%100
19	M24	X	.828	.828	0	%100
20	M24	Z	.478	.478	0	%100
21	M25A	X	.828	.828	0	%100
22	M25A	Z	.478	.478	0	%100
23	M26A	X	.828	.828	0	%100
24	M26A	Z	.478	.478	0	%100
25	M29	X	.527	.527	0	%100
26	M29	Z	.304	.304	0	%100
27	M30A	X	.527	.527	0	%100
28	M30A	Z	.304	.304	0	%100
29	M31A	X	1.353	1.353	0	%100
30	M31A	Z	.781	.781	0	%100
31	M32A	X	1.353	1.353	0	%100
32	M32A	Z	.781	.781	0	%100
33	M33	X	1.721	1.721	0	%100
34	M33	Z	.994	.994	0	%100
35	M34	X	.924	.924	0	%100
36	M34	Z	.534	.534	0	%100



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,%]
37	M35	X	.924	.924	0	%100
38	M35	Z	.534	.534	0	%100
39	M34A	X	1.353	1.353	0	%100
40	M34A	Z	.781	.781	0	%100
41	M35A	X	1.721	1.721	0	%100
42	M35A	Z	.994	.994	0	%100
43	M36	X	.756	.756	0	%100
44	M36	Z	.436	.436	0	%100
45	M37	X	.527	.527	0	%100
46	M37	Z	.304	.304	0	%100
47	M38	X	.527	.527	0	%100
48	M38	Z	.304	.304	0	%100
49	M29A	X	.06	.06	0	%100
50	M29A	Z	.035	.035	0	%100
51	MP1A	X	2.486	2.486	0	%100
52	MP1A	Z	1.435	1.435	0	%100
53	MP5A	X	2.486	2.486	0	%100
54	MP5A	Z	1.435	1.435	0	%100
55	MP3A	X	2.486	2.486	0	%100
56	MP3A	Z	1.435	1.435	0	%100
57	MP2A	X	2.75	2.75	0	%100
58	MP2A	Z	1.587	1.587	0	%100
59	MP4A	X	2.486	2.486	0	%100
60	MP4A	Z	1.435	1.435	0	%100
61	M45	X	1.214	1.214	0	%100
62	M45	Z	.701	.701	0	%100
63	M46	X	3.03	3.03	0	%100
64	M46	Z	1.749	1.749	0	%100
65	M47	X	.941	.941	0	%100
66	M47	Z	.543	.543	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	M6	X	.285	.285	0	%100
2	M6	Z	.493	.493	0	%100
3	M12	X	.285	.285	0	%100
4	M12	Z	.493	.493	0	%100
5	M18	X	.857	.857	0	%100
6	M18	Z	1.484	1.484	0	%100
7	M19	X	.857	.857	0	%100
8	M19	Z	1.484	1.484	0	%100
9	M20	X	.723	.723	0	%100
10	M20	Z	1.252	1.252	0	%100
11	M30	X	1.803	1.803	0	%100
12	M30	Z	3.123	3.123	0	%100
13	M21	X	.967	.967	0	%100
14	M21	Z	1.675	1.675	0	%100
15	M22	X	.967	.967	0	%100
16	M22	Z	1.675	1.675	0	%100
17	M23	X	.159	.159	0	%100
18	M23	Z	.276	.276	0	%100
19	M24	X	.159	.159	0	%100
20	M24	Z	.276	.276	0	%100
21	M25A	X	.159	.159	0	%100
22	M25A	Z	.276	.276	0	%100
23	M26A	X	.159	.159	0	%100



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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.%]
24	M26A	Z	.276	.276	0	%100
25	M29	X	.913	.913	0	%100
26	M29	Z	1.582	1.582	0	%100
27	M30A	X	.913	.913	0	%100
28	M30A	Z	1.582	1.582	0	%100
29	M31A	X	.781	.781	0	%100
30	M31A	Z	1.353	1.353	0	%100
31	M32A	X	.781	.781	0	%100
32	M32A	Z	1.353	1.353	0	%100
33	M33	X	.994	.994	0	%100
34	M33	Z	1.721	1.721	0	%100
35	M34	X	.712	.712	0	%100
36	M34	Z	1.233	1.233	0	%100
37	M35	X	.712	.712	0	%100
38	M35	Z	1.233	1.233	0	%100
39	M34A	X	.781	.781	0	%100
40	M34A	Z	1.353	1.353	0	%100
41	M35A	X	.994	.994	0	%100
42	M35A	Z	1.721	1.721	0	%100
43	M36	X	.722	.722	0	%100
44	M36	Z	1.25	1.25	0	%100
45	M37	X	.913	.913	0	%100
46	M37	Z	1.582	1.582	0	%100
47	M38	X	.913	.913	0	%100
48	M38	Z	1.582	1.582	0	%100
49	M29A	X	.146	.146	0	%100
50	M29A	Z	.253	.253	0	%100
51	MP1A	X	1.435	1.435	0	%100
52	MP1A	Z	2.486	2.486	0	%100
53	MP5A	X	1.435	1.435	0	%100
54	MP5A	Z	2.486	2.486	0	%100
55	MP3A	X	1.435	1.435	0	%100
56	MP3A	Z	2.486	2.486	0	%100
57	MP2A	X	1.587	1.587	0	%100
58	MP2A	Z	2.75	2.75	0	%100
59	MP4A	X	1.435	1.435	0	%100
60	MP4A	Z	2.486	2.486	0	%100
61	M45	X	.727	.727	0	%100
62	M45	Z	1.259	1.259	0	%100
63	M46	X	1.775	1.775	0	%100
64	M46	Z	3.075	3.075	0	%100
65	M47	X	.054	.054	0	%100
66	M47	Z	.093	.093	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	M6	X	0	0	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	0	0	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	0	0	0	%100
6	M18	Z	1.714	1.714	0	%100
7	M19	X	0	0	0	%100
8	M19	Z	1.714	1.714	0	%100
9	M20	X	0	0	0	%100
10	M20	Z	1.339	1.339	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,%]
11	M30	X	0	0	%100
12	M30	Z	3.606	3.606	%100
13	M21	X	0	0	%100
14	M21	Z	2.579	2.579	%100
15	M22	X	0	0	%100
16	M22	Z	2.579	2.579	%100
17	M23	X	0	0	%100
18	M23	Z	0	0	%100
19	M24	X	0	0	%100
20	M24	Z	0	0	%100
21	M25A	X	0	0	%100
22	M25A	Z	0	0	%100
23	M26A	X	0	0	%100
24	M26A	Z	0	0	%100
25	M29	X	0	0	%100
26	M29	Z	2.436	2.436	%100
27	M30A	X	0	0	%100
28	M30A	Z	2.436	2.436	%100
29	M31A	X	0	0	%100
30	M31A	Z	1.562	1.562	%100
31	M32A	X	0	0	%100
32	M32A	Z	1.562	1.562	%100
33	M33	X	0	0	%100
34	M33	Z	1.988	1.988	%100
35	M34	X	0	0	%100
36	M34	Z	1.602	1.602	%100
37	M35	X	0	0	%100
38	M35	Z	1.602	1.602	%100
39	M34A	X	0	0	%100
40	M34A	Z	1.562	1.562	%100
41	M35A	X	0	0	%100
42	M35A	Z	1.988	1.988	%100
43	M36	X	0	0	%100
44	M36	Z	1.729	1.729	%100
45	M37	X	0	0	%100
46	M37	Z	2.436	2.436	%100
47	M38	X	0	0	%100
48	M38	Z	2.436	2.436	%100
49	M29A	X	0	0	%100
50	M29A	Z	1.441	1.441	%100
51	MP1A	X	0	0	%100
52	MP1A	Z	2.871	2.871	%100
53	MP5A	X	0	0	%100
54	MP5A	Z	2.871	2.871	%100
55	MP3A	X	0	0	%100
56	MP3A	Z	2.871	2.871	%100
57	MP2A	X	0	0	%100
58	MP2A	Z	3.175	3.175	%100
59	MP4A	X	0	0	%100
60	MP4A	Z	2.871	2.871	%100
61	M45	X	0	0	%100
62	M45	Z	2.528	2.528	%100
63	M46	X	0	0	%100
64	M46	Z	2.528	2.528	%100
65	M47	X	0	0	%100
66	M47	Z	.224	.224	%100



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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	M6	X	-.285	-.285	0	%100
2	M6	Z	.493	.493	0	%100
3	M12	X	-.285	-.285	0	%100
4	M12	Z	.493	.493	0	%100
5	M18	X	-.857	-.857	0	%100
6	M18	Z	1.484	1.484	0	%100
7	M19	X	-.857	-.857	0	%100
8	M19	Z	1.484	1.484	0	%100
9	M20	X	-.723	-.723	0	%100
10	M20	Z	1.252	1.252	0	%100
11	M30	X	-1.803	-1.803	0	%100
12	M30	Z	3.123	3.123	0	%100
13	M21	X	-.967	-.967	0	%100
14	M21	Z	1.675	1.675	0	%100
15	M22	X	-.967	-.967	0	%100
16	M22	Z	1.675	1.675	0	%100
17	M23	X	-.159	-.159	0	%100
18	M23	Z	.276	.276	0	%100
19	M24	X	-.159	-.159	0	%100
20	M24	Z	.276	.276	0	%100
21	M25A	X	-.159	-.159	0	%100
22	M25A	Z	.276	.276	0	%100
23	M26A	X	-.159	-.159	0	%100
24	M26A	Z	.276	.276	0	%100
25	M29	X	-.913	-.913	0	%100
26	M29	Z	1.582	1.582	0	%100
27	M30A	X	-.913	-.913	0	%100
28	M30A	Z	1.582	1.582	0	%100
29	M31A	X	-.781	-.781	0	%100
30	M31A	Z	1.353	1.353	0	%100
31	M32A	X	-.781	-.781	0	%100
32	M32A	Z	1.353	1.353	0	%100
33	M33	X	-.994	-.994	0	%100
34	M33	Z	1.721	1.721	0	%100
35	M34	X	-.712	-.712	0	%100
36	M34	Z	1.233	1.233	0	%100
37	M35	X	-.712	-.712	0	%100
38	M35	Z	1.233	1.233	0	%100
39	M34A	X	-.781	-.781	0	%100
40	M34A	Z	1.353	1.353	0	%100
41	M35A	X	-.994	-.994	0	%100
42	M35A	Z	1.721	1.721	0	%100
43	M36	X	-.722	-.722	0	%100
44	M36	Z	1.25	1.25	0	%100
45	M37	X	-.913	-.913	0	%100
46	M37	Z	1.582	1.582	0	%100
47	M38	X	-.913	-.913	0	%100
48	M38	Z	1.582	1.582	0	%100
49	M29A	X	-1.183	-1.183	0	%100
50	M29A	Z	2.049	2.049	0	%100
51	MP1A	X	-1.435	-1.435	0	%100
52	MP1A	Z	2.486	2.486	0	%100
53	MP5A	X	-1.435	-1.435	0	%100
54	MP5A	Z	2.486	2.486	0	%100
55	MP3A	X	-1.435	-1.435	0	%100
56	MP3A	Z	2.486	2.486	0	%100
57	MP2A	X	-1.587	-1.587	0	%100



Company : GPD
 Designer : enieto
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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,%]
58	MP2A	Z	2.75	2.75	0	%100
59	MP4A	X	-1.435	-1.435	0	%100
60	MP4A	Z	2.486	2.486	0	%100
61	M45	X	-1.775	-1.775	0	%100
62	M45	Z	3.075	3.075	0	%100
63	M46	X	-.727	-.727	0	%100
64	M46	Z	1.259	1.259	0	%100
65	M47	X	-.66	-.66	0	%100
66	M47	Z	1.143	1.143	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	M6	X	-1.479	-1.479	0	%100
2	M6	Z	.854	.854	0	%100
3	M12	X	-1.479	-1.479	0	%100
4	M12	Z	.854	.854	0	%100
5	M18	X	-1.484	-1.484	0	%100
6	M18	Z	.857	.857	0	%100
7	M19	X	-1.484	-1.484	0	%100
8	M19	Z	.857	.857	0	%100
9	M20	X	-1.436	-1.436	0	%100
10	M20	Z	.829	.829	0	%100
11	M30	X	-3.123	-3.123	0	%100
12	M30	Z	1.803	1.803	0	%100
13	M21	X	-.558	-.558	0	%100
14	M21	Z	.322	.322	0	%100
15	M22	X	-.558	-.558	0	%100
16	M22	Z	.322	.322	0	%100
17	M23	X	-.828	-.828	0	%100
18	M23	Z	.478	.478	0	%100
19	M24	X	-.828	-.828	0	%100
20	M24	Z	.478	.478	0	%100
21	M25A	X	-.828	-.828	0	%100
22	M25A	Z	.478	.478	0	%100
23	M26A	X	-.828	-.828	0	%100
24	M26A	Z	.478	.478	0	%100
25	M29	X	-.527	-.527	0	%100
26	M29	Z	.304	.304	0	%100
27	M30A	X	-.527	-.527	0	%100
28	M30A	Z	.304	.304	0	%100
29	M31A	X	-1.353	-1.353	0	%100
30	M31A	Z	.781	.781	0	%100
31	M32A	X	-1.353	-1.353	0	%100
32	M32A	Z	.781	.781	0	%100
33	M33	X	-1.721	-1.721	0	%100
34	M33	Z	.994	.994	0	%100
35	M34	X	-.924	-.924	0	%100
36	M34	Z	.534	.534	0	%100
37	M35	X	-.924	-.924	0	%100
38	M35	Z	.534	.534	0	%100
39	M34A	X	-1.353	-1.353	0	%100
40	M34A	Z	.781	.781	0	%100
41	M35A	X	-1.721	-1.721	0	%100
42	M35A	Z	.994	.994	0	%100
43	M36	X	-.756	-.756	0	%100
44	M36	Z	.436	.436	0	%100



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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,%]
45	M37	X	-.527	-.527	0 %100
46	M37	Z	.304	.304	0 %100
47	M38	X	-.527	-.527	0 %100
48	M38	Z	.304	.304	0 %100
49	M29A	X	-1.856	-1.856	0 %100
50	M29A	Z	1.071	1.071	0 %100
51	MP1A	X	-2.486	-2.486	0 %100
52	MP1A	Z	1.435	1.435	0 %100
53	MP5A	X	-2.486	-2.486	0 %100
54	MP5A	Z	1.435	1.435	0 %100
55	MP3A	X	-2.486	-2.486	0 %100
56	MP3A	Z	1.435	1.435	0 %100
57	MP2A	X	-2.75	-2.75	0 %100
58	MP2A	Z	1.587	1.587	0 %100
59	MP4A	X	-2.486	-2.486	0 %100
60	MP4A	Z	1.435	1.435	0 %100
61	M45	X	-3.03	-3.03	0 %100
62	M45	Z	1.749	1.749	0 %100
63	M46	X	-1.214	-1.214	0 %100
64	M46	Z	.701	.701	0 %100
65	M47	X	-1.99	-1.99	0 %100
66	M47	Z	1.149	1.149	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	M6	X	-2.278	-2.278	0 %100
2	M6	Z	0	0	0 %100
3	M12	X	-2.278	-2.278	0 %100
4	M12	Z	0	0	0 %100
5	M18	X	-1.714	-1.714	0 %100
6	M18	Z	0	0	0 %100
7	M19	X	-1.714	-1.714	0 %100
8	M19	Z	0	0	0 %100
9	M20	X	-1.764	-1.764	0 %100
10	M20	Z	0	0	0 %100
11	M30	X	-3.606	-3.606	0 %100
12	M30	Z	0	0	0 %100
13	M21	X	0	0	0 %100
14	M21	Z	0	0	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	0	0	0 %100
17	M23	X	-1.275	-1.275	0 %100
18	M23	Z	0	0	0 %100
19	M24	X	-1.275	-1.275	0 %100
20	M24	Z	0	0	0 %100
21	M25A	X	-1.275	-1.275	0 %100
22	M25A	Z	0	0	0 %100
23	M26A	X	-1.275	-1.275	0 %100
24	M26A	Z	0	0	0 %100
25	M29	X	0	0	0 %100
26	M29	Z	0	0	0 %100
27	M30A	X	0	0	0 %100
28	M30A	Z	0	0	0 %100
29	M31A	X	-1.562	-1.562	0 %100
30	M31A	Z	0	0	0 %100
31	M32A	X	-1.562	-1.562	0 %100



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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,%]
32	M32A	Z	0	0	0	%100
33	M33	X	-1.988	-1.988	0	%100
34	M33	Z	0	0	0	%100
35	M34	X	-.889	-.889	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-.889	-.889	0	%100
38	M35	Z	0	0	0	%100
39	M34A	X	-1.562	-1.562	0	%100
40	M34A	Z	0	0	0	%100
41	M35A	X	-1.988	-1.988	0	%100
42	M35A	Z	0	0	0	%100
43	M36	X	-.588	-.588	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	0	0	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	0	0	0	%100
49	M29A	X	-.995	-.995	0	%100
50	M29A	Z	0	0	0	%100
51	MP1A	X	-2.871	-2.871	0	%100
52	MP1A	Z	0	0	0	%100
53	MP5A	X	-2.871	-2.871	0	%100
54	MP5A	Z	0	0	0	%100
55	MP3A	X	-2.871	-2.871	0	%100
56	MP3A	Z	0	0	0	%100
57	MP2A	X	-3.175	-3.175	0	%100
58	MP2A	Z	0	0	0	%100
59	MP4A	X	-2.871	-2.871	0	%100
60	MP4A	Z	0	0	0	%100
61	M45	X	-2.424	-2.424	0	%100
62	M45	Z	0	0	0	%100
63	M46	X	-2.424	-2.424	0	%100
64	M46	Z	0	0	0	%100
65	M47	X	-2.181	-2.181	0	%100
66	M47	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	M6	X	-1.479	-1.479	0	%100
2	M6	Z	-.854	-.854	0	%100
3	M12	X	-1.479	-1.479	0	%100
4	M12	Z	-.854	-.854	0	%100
5	M18	X	-1.484	-1.484	0	%100
6	M18	Z	-.857	-.857	0	%100
7	M19	X	-1.484	-1.484	0	%100
8	M19	Z	-.857	-.857	0	%100
9	M20	X	-1.436	-1.436	0	%100
10	M20	Z	-.829	-.829	0	%100
11	M30	X	-3.123	-3.123	0	%100
12	M30	Z	-1.803	-1.803	0	%100
13	M21	X	-.558	-.558	0	%100
14	M21	Z	-.322	-.322	0	%100
15	M22	X	-.558	-.558	0	%100
16	M22	Z	-.322	-.322	0	%100
17	M23	X	-.828	-.828	0	%100
18	M23	Z	-.478	-.478	0	%100



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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.%]
19	M24	X	-828	-828	0	%100
20	M24	Z	-478	-478	0	%100
21	M25A	X	-828	-828	0	%100
22	M25A	Z	-478	-478	0	%100
23	M26A	X	-828	-828	0	%100
24	M26A	Z	-478	-478	0	%100
25	M29	X	-527	-527	0	%100
26	M29	Z	-304	-304	0	%100
27	M30A	X	-527	-527	0	%100
28	M30A	Z	-304	-304	0	%100
29	M31A	X	-1.353	-1.353	0	%100
30	M31A	Z	-781	-781	0	%100
31	M32A	X	-1.353	-1.353	0	%100
32	M32A	Z	-781	-781	0	%100
33	M33	X	-1.721	-1.721	0	%100
34	M33	Z	-994	-994	0	%100
35	M34	X	-924	-924	0	%100
36	M34	Z	-534	-534	0	%100
37	M35	X	-924	-924	0	%100
38	M35	Z	-534	-534	0	%100
39	M34A	X	-1.353	-1.353	0	%100
40	M34A	Z	-781	-781	0	%100
41	M35A	X	-1.721	-1.721	0	%100
42	M35A	Z	-994	-994	0	%100
43	M36	X	-756	-756	0	%100
44	M36	Z	-436	-436	0	%100
45	M37	X	-527	-527	0	%100
46	M37	Z	-304	-304	0	%100
47	M38	X	-527	-527	0	%100
48	M38	Z	-304	-304	0	%100
49	M29A	X	-06	-06	0	%100
50	M29A	Z	-035	-035	0	%100
51	MP1A	X	-2.486	-2.486	0	%100
52	MP1A	Z	-1.435	-1.435	0	%100
53	MP5A	X	-2.486	-2.486	0	%100
54	MP5A	Z	-1.435	-1.435	0	%100
55	MP3A	X	-2.486	-2.486	0	%100
56	MP3A	Z	-1.435	-1.435	0	%100
57	MP2A	X	-2.75	-2.75	0	%100
58	MP2A	Z	-1.587	-1.587	0	%100
59	MP4A	X	-2.486	-2.486	0	%100
60	MP4A	Z	-1.435	-1.435	0	%100
61	M45	X	-1.214	-1.214	0	%100
62	M45	Z	-701	-701	0	%100
63	M46	X	-3.03	-3.03	0	%100
64	M46	Z	-1.749	-1.749	0	%100
65	M47	X	-941	-941	0	%100
66	M47	Z	-543	-543	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	M6	X	-285	-285	0	%100
2	M6	Z	-493	-493	0	%100
3	M12	X	-285	-285	0	%100
4	M12	Z	-493	-493	0	%100
5	M18	X	-857	-857	0	%100



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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,%]
6	M18	Z	-1.484	-1.484	0 %100
7	M19	X	-.857	-.857	0 %100
8	M19	Z	-1.484	-1.484	0 %100
9	M20	X	-.723	-.723	0 %100
10	M20	Z	-1.252	-1.252	0 %100
11	M30	X	-1.803	-1.803	0 %100
12	M30	Z	-3.123	-3.123	0 %100
13	M21	X	-.967	-.967	0 %100
14	M21	Z	-1.675	-1.675	0 %100
15	M22	X	-.967	-.967	0 %100
16	M22	Z	-1.675	-1.675	0 %100
17	M23	X	-.159	-.159	0 %100
18	M23	Z	-.276	-.276	0 %100
19	M24	X	-.159	-.159	0 %100
20	M24	Z	-.276	-.276	0 %100
21	M25A	X	-.159	-.159	0 %100
22	M25A	Z	-.276	-.276	0 %100
23	M26A	X	-.159	-.159	0 %100
24	M26A	Z	-.276	-.276	0 %100
25	M29	X	-.913	-.913	0 %100
26	M29	Z	-1.582	-1.582	0 %100
27	M30A	X	-.913	-.913	0 %100
28	M30A	Z	-1.582	-1.582	0 %100
29	M31A	X	-.781	-.781	0 %100
30	M31A	Z	-1.353	-1.353	0 %100
31	M32A	X	-.781	-.781	0 %100
32	M32A	Z	-1.353	-1.353	0 %100
33	M33	X	-.994	-.994	0 %100
34	M33	Z	-1.721	-1.721	0 %100
35	M34	X	-.712	-.712	0 %100
36	M34	Z	-1.233	-1.233	0 %100
37	M35	X	-.712	-.712	0 %100
38	M35	Z	-1.233	-1.233	0 %100
39	M34A	X	-.781	-.781	0 %100
40	M34A	Z	-1.353	-1.353	0 %100
41	M35A	X	-.994	-.994	0 %100
42	M35A	Z	-1.721	-1.721	0 %100
43	M36	X	-.722	-.722	0 %100
44	M36	Z	-1.25	-1.25	0 %100
45	M37	X	-.913	-.913	0 %100
46	M37	Z	-1.582	-1.582	0 %100
47	M38	X	-.913	-.913	0 %100
48	M38	Z	-1.582	-1.582	0 %100
49	M29A	X	-.146	-.146	0 %100
50	M29A	Z	-.253	-.253	0 %100
51	MP1A	X	-1.435	-1.435	0 %100
52	MP1A	Z	-2.486	-2.486	0 %100
53	MP5A	X	-1.435	-1.435	0 %100
54	MP5A	Z	-2.486	-2.486	0 %100
55	MP3A	X	-1.435	-1.435	0 %100
56	MP3A	Z	-2.486	-2.486	0 %100
57	MP2A	X	-1.587	-1.587	0 %100
58	MP2A	Z	-2.75	-2.75	0 %100
59	MP4A	X	-1.435	-1.435	0 %100
60	MP4A	Z	-2.486	-2.486	0 %100
61	M45	X	-.727	-.727	0 %100
62	M45	Z	-1.259	-1.259	0 %100



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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.%]
63	M46	X	-1.775	-1.775	0	%100
64	M46	Z	-3.075	-3.075	0	%100
65	M47	X	-.054	-.054	0	%100
66	M47	Z	-.093	-.093	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	M6	X	0	0	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	0	0	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	0	0	0	%100
6	M18	Z	-.219	-.219	0	%100
7	M19	X	0	0	0	%100
8	M19	Z	-.219	-.219	0	%100
9	M20	X	0	0	0	%100
10	M20	Z	-.166	-.166	0	%100
11	M30	X	0	0	0	%100
12	M30	Z	-.674	-.674	0	%100
13	M21	X	0	0	0	%100
14	M21	Z	-.491	-.491	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-.491	-.491	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M25A	X	0	0	0	%100
22	M25A	Z	0	0	0	%100
23	M26A	X	0	0	0	%100
24	M26A	Z	0	0	0	%100
25	M29	X	0	0	0	%100
26	M29	Z	-.364	-.364	0	%100
27	M30A	X	0	0	0	%100
28	M30A	Z	-.364	-.364	0	%100
29	M31A	X	0	0	0	%100
30	M31A	Z	-.164	-.164	0	%100
31	M32A	X	0	0	0	%100
32	M32A	Z	-.164	-.164	0	%100
33	M33	X	0	0	0	%100
34	M33	Z	-.318	-.318	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	-.137	-.137	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	-.137	-.137	0	%100
39	M34A	X	0	0	0	%100
40	M34A	Z	-.164	-.164	0	%100
41	M35A	X	0	0	0	%100
42	M35A	Z	-.318	-.318	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	-.137	-.137	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	-.364	-.364	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	-.364	-.364	0	%100
49	M29A	X	0	0	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,%]
50	M29A	Z	-.215	-.215	0	%100
51	MP1A	X	0	0	0	%100
52	MP1A	Z	-.52	-.52	0	%100
53	MP5A	X	0	0	0	%100
54	MP5A	Z	-.52	-.52	0	%100
55	MP3A	X	0	0	0	%100
56	MP3A	Z	-.52	-.52	0	%100
57	MP2A	X	0	0	0	%100
58	MP2A	Z	-.63	-.63	0	%100
59	MP4A	X	0	0	0	%100
60	MP4A	Z	-.52	-.52	0	%100
61	M45	X	0	0	0	%100
62	M45	Z	-.579	-.579	0	%100
63	M46	X	0	0	0	%100
64	M46	Z	-.579	-.579	0	%100
65	M47	X	0	0	0	%100
66	M47	Z	-.041	-.041	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	M6	X	.055	.055	0	%100
2	M6	Z	-.095	-.095	0	%100
3	M12	X	.055	.055	0	%100
4	M12	Z	-.095	-.095	0	%100
5	M18	X	.11	.11	0	%100
6	M18	Z	-.19	-.19	0	%100
7	M19	X	.11	.11	0	%100
8	M19	Z	-.19	-.19	0	%100
9	M20	X	.09	.09	0	%100
10	M20	Z	-.155	-.155	0	%100
11	M30	X	.337	.337	0	%100
12	M30	Z	-.584	-.584	0	%100
13	M21	X	.184	.184	0	%100
14	M21	Z	-.319	-.319	0	%100
15	M22	X	.184	.184	0	%100
16	M22	Z	-.319	-.319	0	%100
17	M23	X	.02	.02	0	%100
18	M23	Z	-.035	-.035	0	%100
19	M24	X	.02	.02	0	%100
20	M24	Z	-.035	-.035	0	%100
21	M25A	X	.02	.02	0	%100
22	M25A	Z	-.035	-.035	0	%100
23	M26A	X	.02	.02	0	%100
24	M26A	Z	-.035	-.035	0	%100
25	M29	X	.136	.136	0	%100
26	M29	Z	-.236	-.236	0	%100
27	M30A	X	.136	.136	0	%100
28	M30A	Z	-.236	-.236	0	%100
29	M31A	X	.082	.082	0	%100
30	M31A	Z	-.142	-.142	0	%100
31	M32A	X	.082	.082	0	%100
32	M32A	Z	-.142	-.142	0	%100
33	M33	X	.159	.159	0	%100
34	M33	Z	-.275	-.275	0	%100
35	M34	X	.061	.061	0	%100
36	M34	Z	-.105	-.105	0	%100



Company : GPD
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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,%]
37	M35	X	.061	.061	0 %100
38	M35	Z	-.105	-.105	0 %100
39	M34A	X	.082	.082	0 %100
40	M34A	Z	-.142	-.142	0 %100
41	M35A	X	.159	.159	0 %100
42	M35A	Z	-.275	-.275	0 %100
43	M36	X	.057	.057	0 %100
44	M36	Z	-.099	-.099	0 %100
45	M37	X	.136	.136	0 %100
46	M37	Z	-.236	-.236	0 %100
47	M38	X	.136	.136	0 %100
48	M38	Z	-.236	-.236	0 %100
49	M29A	X	.177	.177	0 %100
50	M29A	Z	-.306	-.306	0 %100
51	MP1A	X	.26	.26	0 %100
52	MP1A	Z	-.451	-.451	0 %100
53	MP5A	X	.26	.26	0 %100
54	MP5A	Z	-.451	-.451	0 %100
55	MP3A	X	.26	.26	0 %100
56	MP3A	Z	-.451	-.451	0 %100
57	MP2A	X	.315	.315	0 %100
58	MP2A	Z	-.545	-.545	0 %100
59	MP4A	X	.26	.26	0 %100
60	MP4A	Z	-.451	-.451	0 %100
61	M45	X	.406	.406	0 %100
62	M45	Z	-.704	-.704	0 %100
63	M46	X	.166	.166	0 %100
64	M46	Z	-.288	-.288	0 %100
65	M47	X	.119	.119	0 %100
66	M47	Z	-.207	-.207	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	M6	X	.286	.286	0 %100
2	M6	Z	-.165	-.165	0 %100
3	M12	X	.286	.286	0 %100
4	M12	Z	-.165	-.165	0 %100
5	M18	X	.19	.19	0 %100
6	M18	Z	-.11	-.11	0 %100
7	M19	X	.19	.19	0 %100
8	M19	Z	-.11	-.11	0 %100
9	M20	X	.178	.178	0 %100
10	M20	Z	-.103	-.103	0 %100
11	M30	X	.584	.584	0 %100
12	M30	Z	-.337	-.337	0 %100
13	M21	X	.106	.106	0 %100
14	M21	Z	-.061	-.061	0 %100
15	M22	X	.106	.106	0 %100
16	M22	Z	-.061	-.061	0 %100
17	M23	X	.104	.104	0 %100
18	M23	Z	-.06	-.06	0 %100
19	M24	X	.104	.104	0 %100
20	M24	Z	-.06	-.06	0 %100
21	M25A	X	.104	.104	0 %100
22	M25A	Z	-.06	-.06	0 %100
23	M26A	X	.104	.104	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-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.%]
24	M26A	Z	-.06	-.06	0	%100
25	M29	X	.079	.079	0	%100
26	M29	Z	-.045	-.045	0	%100
27	M30A	X	.079	.079	0	%100
28	M30A	Z	-.045	-.045	0	%100
29	M31A	X	.142	.142	0	%100
30	M31A	Z	-.082	-.082	0	%100
31	M32A	X	.142	.142	0	%100
32	M32A	Z	-.082	-.082	0	%100
33	M33	X	.275	.275	0	%100
34	M33	Z	-.159	-.159	0	%100
35	M34	X	.079	.079	0	%100
36	M34	Z	-.046	-.046	0	%100
37	M35	X	.079	.079	0	%100
38	M35	Z	-.046	-.046	0	%100
39	M34A	X	.142	.142	0	%100
40	M34A	Z	-.082	-.082	0	%100
41	M35A	X	.275	.275	0	%100
42	M35A	Z	-.159	-.159	0	%100
43	M36	X	.06	.06	0	%100
44	M36	Z	-.035	-.035	0	%100
45	M37	X	.079	.079	0	%100
46	M37	Z	-.045	-.045	0	%100
47	M38	X	.079	.079	0	%100
48	M38	Z	-.045	-.045	0	%100
49	M29A	X	.277	.277	0	%100
50	M29A	Z	-.16	-.16	0	%100
51	MP1A	X	.451	.451	0	%100
52	MP1A	Z	-.26	-.26	0	%100
53	MP5A	X	.451	.451	0	%100
54	MP5A	Z	-.26	-.26	0	%100
55	MP3A	X	.451	.451	0	%100
56	MP3A	Z	-.26	-.26	0	%100
57	MP2A	X	.545	.545	0	%100
58	MP2A	Z	-.315	-.315	0	%100
59	MP4A	X	.451	.451	0	%100
60	MP4A	Z	-.26	-.26	0	%100
61	M45	X	.694	.694	0	%100
62	M45	Z	-.4	-.4	0	%100
63	M46	X	.278	.278	0	%100
64	M46	Z	-.16	-.16	0	%100
65	M47	X	.36	.36	0	%100
66	M47	Z	-.208	-.208	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	M6	X	.44	.44	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	.44	.44	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	.219	.219	0	%100
6	M18	Z	0	0	0	%100
7	M19	X	.219	.219	0	%100
8	M19	Z	0	0	0	%100
9	M20	X	.219	.219	0	%100
10	M20	Z	0	0	0	%100



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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,%]
11	M30	X	.674	.674	0 %100
12	M30	Z	0	0	0 %100
13	M21	X	0	0	0 %100
14	M21	Z	0	0	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	0	0	0 %100
17	M23	X	.16	.16	0 %100
18	M23	Z	0	0	0 %100
19	M24	X	.16	.16	0 %100
20	M24	Z	0	0	0 %100
21	M25A	X	.16	.16	0 %100
22	M25A	Z	0	0	0 %100
23	M26A	X	.16	.16	0 %100
24	M26A	Z	0	0	0 %100
25	M29	X	0	0	0 %100
26	M29	Z	0	0	0 %100
27	M30A	X	0	0	0 %100
28	M30A	Z	0	0	0 %100
29	M31A	X	.164	.164	0 %100
30	M31A	Z	0	0	0 %100
31	M32A	X	.164	.164	0 %100
32	M32A	Z	0	0	0 %100
33	M33	X	.318	.318	0 %100
34	M33	Z	0	0	0 %100
35	M34	X	.076	.076	0 %100
36	M34	Z	0	0	0 %100
37	M35	X	.076	.076	0 %100
38	M35	Z	0	0	0 %100
39	M34A	X	.164	.164	0 %100
40	M34A	Z	0	0	0 %100
41	M35A	X	.318	.318	0 %100
42	M35A	Z	0	0	0 %100
43	M36	X	.047	.047	0 %100
44	M36	Z	0	0	0 %100
45	M37	X	0	0	0 %100
46	M37	Z	0	0	0 %100
47	M38	X	0	0	0 %100
48	M38	Z	0	0	0 %100
49	M29A	X	.149	.149	0 %100
50	M29A	Z	0	0	0 %100
51	MP1A	X	.52	.52	0 %100
52	MP1A	Z	0	0	0 %100
53	MP5A	X	.52	.52	0 %100
54	MP5A	Z	0	0	0 %100
55	MP3A	X	.52	.52	0 %100
56	MP3A	Z	0	0	0 %100
57	MP2A	X	.63	.63	0 %100
58	MP2A	Z	0	0	0 %100
59	MP4A	X	.52	.52	0 %100
60	MP4A	Z	0	0	0 %100
61	M45	X	.555	.555	0 %100
62	M45	Z	0	0	0 %100
63	M46	X	.555	.555	0 %100
64	M46	Z	0	0	0 %100
65	M47	X	.394	.394	0 %100
66	M47	Z	0	0	0 %100



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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	M6	X	.286	.286	0	%100
2	M6	Z	.165	.165	0	%100
3	M12	X	.286	.286	0	%100
4	M12	Z	.165	.165	0	%100
5	M18	X	.19	.19	0	%100
6	M18	Z	.11	.11	0	%100
7	M19	X	.19	.19	0	%100
8	M19	Z	.11	.11	0	%100
9	M20	X	.178	.178	0	%100
10	M20	Z	.103	.103	0	%100
11	M30	X	.584	.584	0	%100
12	M30	Z	.337	.337	0	%100
13	M21	X	.106	.106	0	%100
14	M21	Z	.061	.061	0	%100
15	M22	X	.106	.106	0	%100
16	M22	Z	.061	.061	0	%100
17	M23	X	.104	.104	0	%100
18	M23	Z	.06	.06	0	%100
19	M24	X	.104	.104	0	%100
20	M24	Z	.06	.06	0	%100
21	M25A	X	.104	.104	0	%100
22	M25A	Z	.06	.06	0	%100
23	M26A	X	.104	.104	0	%100
24	M26A	Z	.06	.06	0	%100
25	M29	X	.079	.079	0	%100
26	M29	Z	.045	.045	0	%100
27	M30A	X	.079	.079	0	%100
28	M30A	Z	.045	.045	0	%100
29	M31A	X	.142	.142	0	%100
30	M31A	Z	.082	.082	0	%100
31	M32A	X	.142	.142	0	%100
32	M32A	Z	.082	.082	0	%100
33	M33	X	.275	.275	0	%100
34	M33	Z	.159	.159	0	%100
35	M34	X	.079	.079	0	%100
36	M34	Z	.046	.046	0	%100
37	M35	X	.079	.079	0	%100
38	M35	Z	.046	.046	0	%100
39	M34A	X	.142	.142	0	%100
40	M34A	Z	.082	.082	0	%100
41	M35A	X	.275	.275	0	%100
42	M35A	Z	.159	.159	0	%100
43	M36	X	.06	.06	0	%100
44	M36	Z	.035	.035	0	%100
45	M37	X	.079	.079	0	%100
46	M37	Z	.045	.045	0	%100
47	M38	X	.079	.079	0	%100
48	M38	Z	.045	.045	0	%100
49	M29A	X	.009	.009	0	%100
50	M29A	Z	.005	.005	0	%100
51	MP1A	X	.451	.451	0	%100
52	MP1A	Z	.26	.26	0	%100
53	MP5A	X	.451	.451	0	%100
54	MP5A	Z	.26	.26	0	%100
55	MP3A	X	.451	.451	0	%100
56	MP3A	Z	.26	.26	0	%100
57	MP2A	X	.545	.545	0	%100



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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.%]
58	MP2A	Z	.315	.315	0	%100
59	MP4A	X	.451	.451	0	%100
60	MP4A	Z	.26	.26	0	%100
61	M45	X	.278	.278	0	%100
62	M45	Z	.16	.16	0	%100
63	M46	X	.694	.694	0	%100
64	M46	Z	.4	.4	0	%100
65	M47	X	.17	.17	0	%100
66	M47	Z	.098	.098	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	M6	X	.055	.055	0	%100
2	M6	Z	.095	.095	0	%100
3	M12	X	.055	.055	0	%100
4	M12	Z	.095	.095	0	%100
5	M18	X	.11	.11	0	%100
6	M18	Z	.19	.19	0	%100
7	M19	X	.11	.11	0	%100
8	M19	Z	.19	.19	0	%100
9	M20	X	.09	.09	0	%100
10	M20	Z	.155	.155	0	%100
11	M30	X	.337	.337	0	%100
12	M30	Z	.584	.584	0	%100
13	M21	X	.184	.184	0	%100
14	M21	Z	.319	.319	0	%100
15	M22	X	.184	.184	0	%100
16	M22	Z	.319	.319	0	%100
17	M23	X	.02	.02	0	%100
18	M23	Z	.035	.035	0	%100
19	M24	X	.02	.02	0	%100
20	M24	Z	.035	.035	0	%100
21	M25A	X	.02	.02	0	%100
22	M25A	Z	.035	.035	0	%100
23	M26A	X	.02	.02	0	%100
24	M26A	Z	.035	.035	0	%100
25	M29	X	.136	.136	0	%100
26	M29	Z	.236	.236	0	%100
27	M30A	X	.136	.136	0	%100
28	M30A	Z	.236	.236	0	%100
29	M31A	X	.082	.082	0	%100
30	M31A	Z	.142	.142	0	%100
31	M32A	X	.082	.082	0	%100
32	M32A	Z	.142	.142	0	%100
33	M33	X	.159	.159	0	%100
34	M33	Z	.275	.275	0	%100
35	M34	X	.061	.061	0	%100
36	M34	Z	.105	.105	0	%100
37	M35	X	.061	.061	0	%100
38	M35	Z	.105	.105	0	%100
39	M34A	X	.082	.082	0	%100
40	M34A	Z	.142	.142	0	%100
41	M35A	X	.159	.159	0	%100
42	M35A	Z	.275	.275	0	%100
43	M36	X	.057	.057	0	%100
44	M36	Z	.099	.099	0	%100



Company : GPD
 Designer : enieto
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 Model Name : 467314-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,%]
45	M37	X	.136	.136	0 %100
46	M37	Z	.236	.236	0 %100
47	M38	X	.136	.136	0 %100
48	M38	Z	.236	.236	0 %100
49	M29A	X	.022	.022	0 %100
50	M29A	Z	.038	.038	0 %100
51	MP1A	X	.26	.26	0 %100
52	MP1A	Z	.451	.451	0 %100
53	MP5A	X	.26	.26	0 %100
54	MP5A	Z	.451	.451	0 %100
55	MP3A	X	.26	.26	0 %100
56	MP3A	Z	.451	.451	0 %100
57	MP2A	X	.315	.315	0 %100
58	MP2A	Z	.545	.545	0 %100
59	MP4A	X	.26	.26	0 %100
60	MP4A	Z	.451	.451	0 %100
61	M45	X	.166	.166	0 %100
62	M45	Z	.288	.288	0 %100
63	M46	X	.406	.406	0 %100
64	M46	Z	.704	.704	0 %100
65	M47	X	.01	.01	0 %100
66	M47	Z	.017	.017	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	M6	X	0	0	0 %100
2	M6	Z	0	0	0 %100
3	M12	X	0	0	0 %100
4	M12	Z	0	0	0 %100
5	M18	X	0	0	0 %100
6	M18	Z	.219	.219	0 %100
7	M19	X	0	0	0 %100
8	M19	Z	.219	.219	0 %100
9	M20	X	0	0	0 %100
10	M20	Z	.166	.166	0 %100
11	M30	X	0	0	0 %100
12	M30	Z	.674	.674	0 %100
13	M21	X	0	0	0 %100
14	M21	Z	.491	.491	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	.491	.491	0 %100
17	M23	X	0	0	0 %100
18	M23	Z	0	0	0 %100
19	M24	X	0	0	0 %100
20	M24	Z	0	0	0 %100
21	M25A	X	0	0	0 %100
22	M25A	Z	0	0	0 %100
23	M26A	X	0	0	0 %100
24	M26A	Z	0	0	0 %100
25	M29	X	0	0	0 %100
26	M29	Z	.364	.364	0 %100
27	M30A	X	0	0	0 %100
28	M30A	Z	.364	.364	0 %100
29	M31A	X	0	0	0 %100
30	M31A	Z	.164	.164	0 %100
31	M32A	X	0	0	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10081643
 Model Name : 467314-VZW_MT_LOT_SectorA_H

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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,%]
32	M32A	Z	.164	.164	0	%100
33	M33	X	0	0	0	%100
34	M33	Z	.318	.318	0	%100
35	M34	X	0	0	0	%100
36	M34	Z	.137	.137	0	%100
37	M35	X	0	0	0	%100
38	M35	Z	.137	.137	0	%100
39	M34A	X	0	0	0	%100
40	M34A	Z	.164	.164	0	%100
41	M35A	X	0	0	0	%100
42	M35A	Z	.318	.318	0	%100
43	M36	X	0	0	0	%100
44	M36	Z	.137	.137	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	.364	.364	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	.364	.364	0	%100
49	M29A	X	0	0	0	%100
50	M29A	Z	.215	.215	0	%100
51	MP1A	X	0	0	0	%100
52	MP1A	Z	.52	.52	0	%100
53	MP5A	X	0	0	0	%100
54	MP5A	Z	.52	.52	0	%100
55	MP3A	X	0	0	0	%100
56	MP3A	Z	.52	.52	0	%100
57	MP2A	X	0	0	0	%100
58	MP2A	Z	.63	.63	0	%100
59	MP4A	X	0	0	0	%100
60	MP4A	Z	.52	.52	0	%100
61	M45	X	0	0	0	%100
62	M45	Z	.579	.579	0	%100
63	M46	X	0	0	0	%100
64	M46	Z	.579	.579	0	%100
65	M47	X	0	0	0	%100
66	M47	Z	.041	.041	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	M6	X	-.055	-.055	0	%100
2	M6	Z	.095	.095	0	%100
3	M12	X	-.055	-.055	0	%100
4	M12	Z	.095	.095	0	%100
5	M18	X	-.11	-.11	0	%100
6	M18	Z	.19	.19	0	%100
7	M19	X	-.11	-.11	0	%100
8	M19	Z	.19	.19	0	%100
9	M20	X	-.09	-.09	0	%100
10	M20	Z	.155	.155	0	%100
11	M30	X	-.337	-.337	0	%100
12	M30	Z	.584	.584	0	%100
13	M21	X	-.184	-.184	0	%100
14	M21	Z	.319	.319	0	%100
15	M22	X	-.184	-.184	0	%100
16	M22	Z	.319	.319	0	%100
17	M23	X	-.02	-.02	0	%100
18	M23	Z	.035	.035	0	%100



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 Designer : enieto
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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.%]
19	M24	X	-.02	-.02	0	%100
20	M24	Z	.035	.035	0	%100
21	M25A	X	-.02	-.02	0	%100
22	M25A	Z	.035	.035	0	%100
23	M26A	X	-.02	-.02	0	%100
24	M26A	Z	.035	.035	0	%100
25	M29	X	-.136	-.136	0	%100
26	M29	Z	.236	.236	0	%100
27	M30A	X	-.136	-.136	0	%100
28	M30A	Z	.236	.236	0	%100
29	M31A	X	-.082	-.082	0	%100
30	M31A	Z	.142	.142	0	%100
31	M32A	X	-.082	-.082	0	%100
32	M32A	Z	.142	.142	0	%100
33	M33	X	-.159	-.159	0	%100
34	M33	Z	.275	.275	0	%100
35	M34	X	-.061	-.061	0	%100
36	M34	Z	.105	.105	0	%100
37	M35	X	-.061	-.061	0	%100
38	M35	Z	.105	.105	0	%100
39	M34A	X	-.082	-.082	0	%100
40	M34A	Z	.142	.142	0	%100
41	M35A	X	-.159	-.159	0	%100
42	M35A	Z	.275	.275	0	%100
43	M36	X	-.057	-.057	0	%100
44	M36	Z	.099	.099	0	%100
45	M37	X	-.136	-.136	0	%100
46	M37	Z	.236	.236	0	%100
47	M38	X	-.136	-.136	0	%100
48	M38	Z	.236	.236	0	%100
49	M29A	X	-.177	-.177	0	%100
50	M29A	Z	.306	.306	0	%100
51	MP1A	X	-.26	-.26	0	%100
52	MP1A	Z	.451	.451	0	%100
53	MP5A	X	-.26	-.26	0	%100
54	MP5A	Z	.451	.451	0	%100
55	MP3A	X	-.26	-.26	0	%100
56	MP3A	Z	.451	.451	0	%100
57	MP2A	X	-.315	-.315	0	%100
58	MP2A	Z	.545	.545	0	%100
59	MP4A	X	-.26	-.26	0	%100
60	MP4A	Z	.451	.451	0	%100
61	M45	X	-.406	-.406	0	%100
62	M45	Z	.704	.704	0	%100
63	M46	X	-.166	-.166	0	%100
64	M46	Z	.288	.288	0	%100
65	M47	X	-.119	-.119	0	%100
66	M47	Z	.207	.207	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	M6	X	-.286	-.286	0	%100
2	M6	Z	.165	.165	0	%100
3	M12	X	-.286	-.286	0	%100
4	M12	Z	.165	.165	0	%100
5	M18	X	-.19	-.19	0	%100



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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,%]
6	M18	Z	.11	.11	0 %100
7	M19	X	-.19	-.19	0 %100
8	M19	Z	.11	.11	0 %100
9	M20	X	-.178	-.178	0 %100
10	M20	Z	.103	.103	0 %100
11	M30	X	-.584	-.584	0 %100
12	M30	Z	.337	.337	0 %100
13	M21	X	-.106	-.106	0 %100
14	M21	Z	.061	.061	0 %100
15	M22	X	-.106	-.106	0 %100
16	M22	Z	.061	.061	0 %100
17	M23	X	-.104	-.104	0 %100
18	M23	Z	.06	.06	0 %100
19	M24	X	-.104	-.104	0 %100
20	M24	Z	.06	.06	0 %100
21	M25A	X	-.104	-.104	0 %100
22	M25A	Z	.06	.06	0 %100
23	M26A	X	-.104	-.104	0 %100
24	M26A	Z	.06	.06	0 %100
25	M29	X	-.079	-.079	0 %100
26	M29	Z	.045	.045	0 %100
27	M30A	X	-.079	-.079	0 %100
28	M30A	Z	.045	.045	0 %100
29	M31A	X	-.142	-.142	0 %100
30	M31A	Z	.082	.082	0 %100
31	M32A	X	-.142	-.142	0 %100
32	M32A	Z	.082	.082	0 %100
33	M33	X	-.275	-.275	0 %100
34	M33	Z	.159	.159	0 %100
35	M34	X	-.079	-.079	0 %100
36	M34	Z	.046	.046	0 %100
37	M35	X	-.079	-.079	0 %100
38	M35	Z	.046	.046	0 %100
39	M34A	X	-.142	-.142	0 %100
40	M34A	Z	.082	.082	0 %100
41	M35A	X	-.275	-.275	0 %100
42	M35A	Z	.159	.159	0 %100
43	M36	X	-.06	-.06	0 %100
44	M36	Z	.035	.035	0 %100
45	M37	X	-.079	-.079	0 %100
46	M37	Z	.045	.045	0 %100
47	M38	X	-.079	-.079	0 %100
48	M38	Z	.045	.045	0 %100
49	M29A	X	-.277	-.277	0 %100
50	M29A	Z	.16	.16	0 %100
51	MP1A	X	-.451	-.451	0 %100
52	MP1A	Z	.26	.26	0 %100
53	MP5A	X	-.451	-.451	0 %100
54	MP5A	Z	.26	.26	0 %100
55	MP3A	X	-.451	-.451	0 %100
56	MP3A	Z	.26	.26	0 %100
57	MP2A	X	-.545	-.545	0 %100
58	MP2A	Z	.315	.315	0 %100
59	MP4A	X	-.451	-.451	0 %100
60	MP4A	Z	.26	.26	0 %100
61	M45	X	-.694	-.694	0 %100
62	M45	Z	.4	.4	0 %100



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.%]
63	M46	X	-.278	-.278	0	%100
64	M46	Z	.16	.16	0	%100
65	M47	X	-.36	-.36	0	%100
66	M47	Z	.208	.208	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	M6	X	-.44	-.44	0	%100
2	M6	Z	0	0	0	%100
3	M12	X	-.44	-.44	0	%100
4	M12	Z	0	0	0	%100
5	M18	X	-.219	-.219	0	%100
6	M18	Z	0	0	0	%100
7	M19	X	-.219	-.219	0	%100
8	M19	Z	0	0	0	%100
9	M20	X	-.219	-.219	0	%100
10	M20	Z	0	0	0	%100
11	M30	X	-.674	-.674	0	%100
12	M30	Z	0	0	0	%100
13	M21	X	0	0	0	%100
14	M21	Z	0	0	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-.16	-.16	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	-.16	-.16	0	%100
20	M24	Z	0	0	0	%100
21	M25A	X	-.16	-.16	0	%100
22	M25A	Z	0	0	0	%100
23	M26A	X	-.16	-.16	0	%100
24	M26A	Z	0	0	0	%100
25	M29	X	0	0	0	%100
26	M29	Z	0	0	0	%100
27	M30A	X	0	0	0	%100
28	M30A	Z	0	0	0	%100
29	M31A	X	-.164	-.164	0	%100
30	M31A	Z	0	0	0	%100
31	M32A	X	-.164	-.164	0	%100
32	M32A	Z	0	0	0	%100
33	M33	X	-.318	-.318	0	%100
34	M33	Z	0	0	0	%100
35	M34	X	-.076	-.076	0	%100
36	M34	Z	0	0	0	%100
37	M35	X	-.076	-.076	0	%100
38	M35	Z	0	0	0	%100
39	M34A	X	-.164	-.164	0	%100
40	M34A	Z	0	0	0	%100
41	M35A	X	-.318	-.318	0	%100
42	M35A	Z	0	0	0	%100
43	M36	X	-.047	-.047	0	%100
44	M36	Z	0	0	0	%100
45	M37	X	0	0	0	%100
46	M37	Z	0	0	0	%100
47	M38	X	0	0	0	%100
48	M38	Z	0	0	0	%100
49	M29A	X	-.149	-.149	0	%100



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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,%]
50	M29A	Z	0	0	0	%100
51	MP1A	X	-.52	-.52	0	%100
52	MP1A	Z	0	0	0	%100
53	MP5A	X	-.52	-.52	0	%100
54	MP5A	Z	0	0	0	%100
55	MP3A	X	-.52	-.52	0	%100
56	MP3A	Z	0	0	0	%100
57	MP2A	X	-.63	-.63	0	%100
58	MP2A	Z	0	0	0	%100
59	MP4A	X	-.52	-.52	0	%100
60	MP4A	Z	0	0	0	%100
61	M45	X	-.555	-.555	0	%100
62	M45	Z	0	0	0	%100
63	M46	X	-.555	-.555	0	%100
64	M46	Z	0	0	0	%100
65	M47	X	-.394	-.394	0	%100
66	M47	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	M6	X	-.286	-.286	0	%100
2	M6	Z	-.165	-.165	0	%100
3	M12	X	-.286	-.286	0	%100
4	M12	Z	-.165	-.165	0	%100
5	M18	X	-.19	-.19	0	%100
6	M18	Z	-.11	-.11	0	%100
7	M19	X	-.19	-.19	0	%100
8	M19	Z	-.11	-.11	0	%100
9	M20	X	-.178	-.178	0	%100
10	M20	Z	-.103	-.103	0	%100
11	M30	X	-.584	-.584	0	%100
12	M30	Z	-.337	-.337	0	%100
13	M21	X	-.106	-.106	0	%100
14	M21	Z	-.061	-.061	0	%100
15	M22	X	-.106	-.106	0	%100
16	M22	Z	-.061	-.061	0	%100
17	M23	X	-.104	-.104	0	%100
18	M23	Z	-.06	-.06	0	%100
19	M24	X	-.104	-.104	0	%100
20	M24	Z	-.06	-.06	0	%100
21	M25A	X	-.104	-.104	0	%100
22	M25A	Z	-.06	-.06	0	%100
23	M26A	X	-.104	-.104	0	%100
24	M26A	Z	-.06	-.06	0	%100
25	M29	X	-.079	-.079	0	%100
26	M29	Z	-.045	-.045	0	%100
27	M30A	X	-.079	-.079	0	%100
28	M30A	Z	-.045	-.045	0	%100
29	M31A	X	-.142	-.142	0	%100
30	M31A	Z	-.082	-.082	0	%100
31	M32A	X	-.142	-.142	0	%100
32	M32A	Z	-.082	-.082	0	%100
33	M33	X	-.275	-.275	0	%100
34	M33	Z	-.159	-.159	0	%100
35	M34	X	-.079	-.079	0	%100
36	M34	Z	-.046	-.046	0	%100



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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,%]
37	M35	X	-0.079	-0.079	0 %100
38	M35	Z	-0.046	-0.046	0 %100
39	M34A	X	-0.142	-0.142	0 %100
40	M34A	Z	-0.082	-0.082	0 %100
41	M35A	X	-0.275	-0.275	0 %100
42	M35A	Z	-0.159	-0.159	0 %100
43	M36	X	-0.06	-0.06	0 %100
44	M36	Z	-0.035	-0.035	0 %100
45	M37	X	-0.079	-0.079	0 %100
46	M37	Z	-0.045	-0.045	0 %100
47	M38	X	-0.079	-0.079	0 %100
48	M38	Z	-0.045	-0.045	0 %100
49	M29A	X	-0.009	-0.009	0 %100
50	M29A	Z	-0.005	-0.005	0 %100
51	MP1A	X	-0.451	-0.451	0 %100
52	MP1A	Z	-0.26	-0.26	0 %100
53	MP5A	X	-0.451	-0.451	0 %100
54	MP5A	Z	-0.26	-0.26	0 %100
55	MP3A	X	-0.451	-0.451	0 %100
56	MP3A	Z	-0.26	-0.26	0 %100
57	MP2A	X	-0.545	-0.545	0 %100
58	MP2A	Z	-0.315	-0.315	0 %100
59	MP4A	X	-0.451	-0.451	0 %100
60	MP4A	Z	-0.26	-0.26	0 %100
61	M45	X	-0.278	-0.278	0 %100
62	M45	Z	-0.16	-0.16	0 %100
63	M46	X	-0.694	-0.694	0 %100
64	M46	Z	-0.4	-0.4	0 %100
65	M47	X	-0.17	-0.17	0 %100
66	M47	Z	-0.098	-0.098	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	M6	X	-0.055	-0.055	0 %100
2	M6	Z	-0.095	-0.095	0 %100
3	M12	X	-0.055	-0.055	0 %100
4	M12	Z	-0.095	-0.095	0 %100
5	M18	X	-0.11	-0.11	0 %100
6	M18	Z	-0.19	-0.19	0 %100
7	M19	X	-0.11	-0.11	0 %100
8	M19	Z	-0.19	-0.19	0 %100
9	M20	X	-0.09	-0.09	0 %100
10	M20	Z	-0.155	-0.155	0 %100
11	M30	X	-0.337	-0.337	0 %100
12	M30	Z	-0.584	-0.584	0 %100
13	M21	X	-0.184	-0.184	0 %100
14	M21	Z	-0.319	-0.319	0 %100
15	M22	X	-0.184	-0.184	0 %100
16	M22	Z	-0.319	-0.319	0 %100
17	M23	X	-0.02	-0.02	0 %100
18	M23	Z	-0.035	-0.035	0 %100
19	M24	X	-0.02	-0.02	0 %100
20	M24	Z	-0.035	-0.035	0 %100
21	M25A	X	-0.02	-0.02	0 %100
22	M25A	Z	-0.035	-0.035	0 %100
23	M26A	X	-0.02	-0.02	0 %100



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,%]
24	M26A	Z	-.035	-.035	0	%100
25	M29	X	-.136	-.136	0	%100
26	M29	Z	-.236	-.236	0	%100
27	M30A	X	-.136	-.136	0	%100
28	M30A	Z	-.236	-.236	0	%100
29	M31A	X	-.082	-.082	0	%100
30	M31A	Z	-.142	-.142	0	%100
31	M32A	X	-.082	-.082	0	%100
32	M32A	Z	-.142	-.142	0	%100
33	M33	X	-.159	-.159	0	%100
34	M33	Z	-.275	-.275	0	%100
35	M34	X	-.061	-.061	0	%100
36	M34	Z	-.105	-.105	0	%100
37	M35	X	-.061	-.061	0	%100
38	M35	Z	-.105	-.105	0	%100
39	M34A	X	-.082	-.082	0	%100
40	M34A	Z	-.142	-.142	0	%100
41	M35A	X	-.159	-.159	0	%100
42	M35A	Z	-.275	-.275	0	%100
43	M36	X	-.057	-.057	0	%100
44	M36	Z	-.099	-.099	0	%100
45	M37	X	-.136	-.136	0	%100
46	M37	Z	-.236	-.236	0	%100
47	M38	X	-.136	-.136	0	%100
48	M38	Z	-.236	-.236	0	%100
49	M29A	X	-.022	-.022	0	%100
50	M29A	Z	-.038	-.038	0	%100
51	MP1A	X	-.26	-.26	0	%100
52	MP1A	Z	-.451	-.451	0	%100
53	MP5A	X	-.26	-.26	0	%100
54	MP5A	Z	-.451	-.451	0	%100
55	MP3A	X	-.26	-.26	0	%100
56	MP3A	Z	-.451	-.451	0	%100
57	MP2A	X	-.315	-.315	0	%100
58	MP2A	Z	-.545	-.545	0	%100
59	MP4A	X	-.26	-.26	0	%100
60	MP4A	Z	-.451	-.451	0	%100
61	M45	X	-.166	-.166	0	%100
62	M45	Z	-.288	-.288	0	%100
63	M46	X	-.406	-.406	0	%100
64	M46	Z	-.704	-.704	0	%100
65	M47	X	-.01	-.01	0	%100
66	M47	Z	-.017	-.017	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	N41	m...437.234	9	397.277	20	2176.586	8	0	51	0	51	0	51
2		min-246.618	3	29.67	2	-1570.306	2	0	1	0	1	0	1
3	N43	m...253.488	9	448.349	15	2070.666	2	0	51	0	51	0	51
4		min-396.501	3	130.349	9	-1628.746	8	0	1	0	1	0	1



Company : GPD
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Envelope Joint Reactions (Continued)

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
5	N40A	m...254.077	9	371.47	18	1592.826	9	0	51	0	51	0	51
6		min-601.672	3	94.228	12	-2724.266	3	0	1	0	1	0	1
7	N42	m...563.638	8	400.408	20	2601.723	2	0	51	0	51	0	51
8		min-515.028	2	81.983	2	-2682.489	8	0	1	0	1	0	1
9	N45A	m...747.195	1	19.867	19	627.509	1	0	51	0	51	0	51
10		min-835.851	7	4.864	1	-709.335	7	0	1	0	1	0	1
11	N76	m...639.471	45	515.985	13	464.471	13	0	45	0	51	0	51
12		min-206.878	50	-45.911	7	-100.098	7	0	3	0	1	0	1
13	N79	m...120.166	1	14.876	13	371.452	1	0	51	0	51	0	51
14		min-114.981	7	6.13	5	-363.055	7	0	1	0	1	0	1
15	Totals:	m...1329.267	10	2006.077	13	1963.462	1						
16		min-1329.2...	4	903.626	7	-1963.464	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	M36	SR 0.625	.962	4.311	38	.048	4.311	7	1496...	9940...	.104	.104	H1-...	
2	M37	PIPE 1.25	.701	2.474	1	.311	4.487	1	9174...	1968...	.801	.801	H3-6	
3	M38	PIPE 1.25	.636	5.523	40	.286	.978	7	9174...	1968...	.801	.801	H1-...	
4	M35A	PIPE 1.25	.482	1.518	7	.168	1.518	1	1841...	1968...	.801	.801	H1-...	
5	M6	HSS2.5X2.5X3	.471	2.145	2	.098	2.145	y	39	6059...	63756	4.554	4.554	H1-...
6	M29	PIPE 1.25	.346	0	2	.118	0	1	6788...	1968...	.801	.801	H1-...	
7	M12	HSS2.5X2.5X3	.313	2.145	8	.096	.38	y	38	6059...	63756	4.554	4.554	H1-...
8	M30A	PIPE 1.25	.307	0	50	.151	0	31	6788...	1968...	.801	.801	H1-...	
9	M21	HSS2.5X2.5X3	.296	1.667	8	.166	1.181	z	8	5638...	63756	4.554	4.554	H1-...
10	M34	SR 0.625	.264	3.373	20	.026	0	8	2444...	9940...	.104	.104	H1-...	
11	M22	HSS2.5X2.5X3	.252	1.667	8	.140	1.667	z	8	5638...	63756	4.554	4.554	H1-...
12	M25A	SR 1.25	.225	0	3	.035	.25	3	3956...	3975...	.829	.829	H1-...	
13	M26A	SR 1.25	.225	0	8	.035	.25	8	3956...	3975...	.829	.829	H1-...	
14	M23	SR 1.25	.188	0	8	.030	.25	8	3956...	3975...	.829	.829	H1-...	
15	M24	SR 1.25	.178	0	3	.029	.25	15	3956...	3975...	.829	.829	H1-...	
16	MP5A	PIPE 2.0	.170	2.688	1	.060	2.625	1	2086...	32130	1.872	1.872	H1-...	
17	MP2A	PIPE 2.5	.126	2.75	7	.133	2.75	1	3003...	50715	3.596	3.596	H1-...	
18	M34A	SR 0.75	.118	0	43	.133	0	1	8050...	1431...	.179	.179	H1-...	
19	M29A	PIPE 1.25	.117	5.853	1	.003	0	20	8351...	1968...	.801	.801	H1-...	
20	MP1A	PIPE 2.0	.110	4.125	49	.061	4.125	12	2086...	32130	1.872	1.872	H1-...	
21	MP3A	PIPE 2.0	.100	3.646	49	.106	1.198	49	2380...	32130	1.872	1.872	H1-...	
22	M30	PIPE 4.0	.082	1.313	2	.253	1.094	2	8537...	93240	10.6...	10.6...	H3-6	
23	M20	SR 1	.082	2.885	47	.031	0	9	1661...	2544...	.424	.424	H1-...	
24	M18	SR 1	.079	2.513	50	.066	0	49	1840...	2544...	.424	.424	H1-...	
25	M33	PIPE 1.25	.078	2.513	50	.051	0	1	1841...	1968...	.801	.801	H1-...	
26	M45	L2.5x2.5x3	.064	2.18	20	.005	4.27	z	9	1610...	2919...	.873	1.686	H2-1
27	M35	SR 0.625	.063	0	13	.014	3.373	50	2444...	9940...	.104	.104	H1-...	
28	M46	L2.5x2.5x3	.048	2.135	6	.005	0	z	11	1610...	2919...	.873	1.686	H2-1
29	M32A	SR 0.75	.043	2.513	50	.040	0	12	8050...	1431...	.179	.179	H1-...	
30	M31A	SR 0.75	.039	0	20	.039	0	49	8050...	1431...	.179	.179	H1-...	
31	M19	SR 1	.034	2.513	31	.023	0	49	1840...	2544...	.424	.424	H1-...	
32	MP4A	PIPE 2.0	.022	1.688	12	.067	1.688	1	2086...	32130	1.872	1.872	H1-...	
33	M47	PIPE 2.0	.014	3.195	1	.002	0	21	2842...	32130	1.872	1.872	H1-...	



TIA-222-H CONNECTION CHECK
Mount to Tower Connection - Typ. All Sectors
2021740.467314.02

Bolt Information	
Bolt Diameter (d)	0.5 in
Net Tensile Area (A _n)	0.142 in ²
# of Bolts Total (n)	2
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)	0.64 kips

Bolt Capacity	
Nominal Tensile Strength (R _{nt})	17.028 kips
Nominal Shear Strength (R _{nv})	11.78 kips
Bolt Tensile Force (T _{ub})	1.36 kips
Bolt Shear Force (V _{ub})	0.318 kips
$T_{ub}/\phi R_{nt}$	0.10666
$V_{ub}/\phi R_{nv}$	0.03596
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.01267
Bolt Capacity =	10.7% OK



TIA-222-H CONNECTION CHECK
Relocated Tieback to Tower Connection - Typ. All Sectors
2021740.467314.02

Bolt Information	
Bolt Diameter (d)	0.5 in
Net Tensile Area (A _n)	0.142 in ²
# of Bolts Total (n)	2
Bolt Grade	SAE J429 Gr 5
Bolt Tensile Strength (F _{ub})	120 ksi

RISA 3D Reactions	
Moment (M)	0.00 k-ft
Axial (T)	0.01 kips
Shear (V)	1.10 kips

Bolt Capacity	
Nominal Tensile Strength (R _{nt})	17.028 kips
Nominal Shear Strength (R _{nv})	11.78 kips
Bolt Tensile Force (T _{ub})	0.00 kips
Bolt Shear Force (V _{ub})	0.548 kips
$T_{ub}/\phi R_{nt}$	0.00032
$V_{ub}/\phi R_{nv}$	0.06203
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.00385
Bolt Capacity =	6.2% OK



TIA-222-H CONNECTION CHECK
Mod V-Kit to Tower Connection - Typ. All Sectors
2021740.467314.02

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	1.375	in
Bolt Distance Left-Right	9.5	in
Bolt Grade	A307	
Bolt Tensile Strength (F _{ub})	60	ksi

RISA 3D Reactions		
Moment (M)	0.00	k-ft
Axial (T)	-0.39	kips
Shear (V)	0.76	kips

Bolt Capacity		
Nominal Tensile Strength (R _{nt})	8.514	kips
Nominal Shear Strength (R _{nv})	5.89	kips
Bolt Tensile Force (T _{ub})	-0.10	kips
Bolt Shear Force (V _{ub})	0.189	kips
$T_{ub}/\phi R_{nt}$	-0.01514	
$V_{ub}/\phi R_{nv}$	0.04283	
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.00206	
Bolt Capacity =	4.3%	OK



TIA-222-H CONNECTION CHECK
Mod Tieback to Tower Connection - Typ. All Sectors
2021740.467314.02

Bolt Information	
Bolt Diameter (d)	0.5 in
Net Tensile Area (A _n)	0.142 in ²
# of Bolts Total (n)	2
Bolt Grade	SAE J429 Gr 5
Bolt Tensile Strength (F _{ub})	120 ksi

RISA 3D Reactions	
Moment (M)	0.00 k-ft
Axial (T)	0.00 kips
Shear (V)	0.39 kips

Bolt Capacity	
Nominal Tensile Strength (R _{nt})	17.028 kips
Nominal Shear Strength (R _{nv})	11.78 kips
Bolt Tensile Force (T _{ub})	0.00 kips
Bolt Shear Force (V _{ub})	0.195 kips
$T_{ub}/\phi R_{nt}$	0.00001
$V_{ub}/\phi R_{nv}$	0.02210
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.00049
Bolt Capacity =	2.2% 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 _____

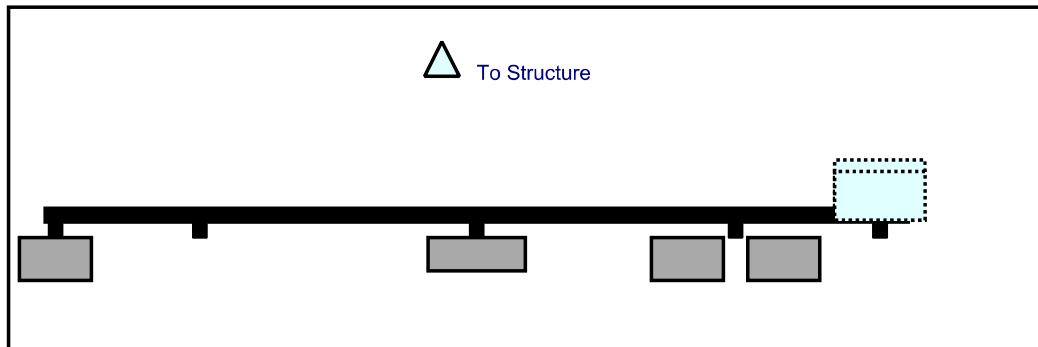
Name _____

Signature _____

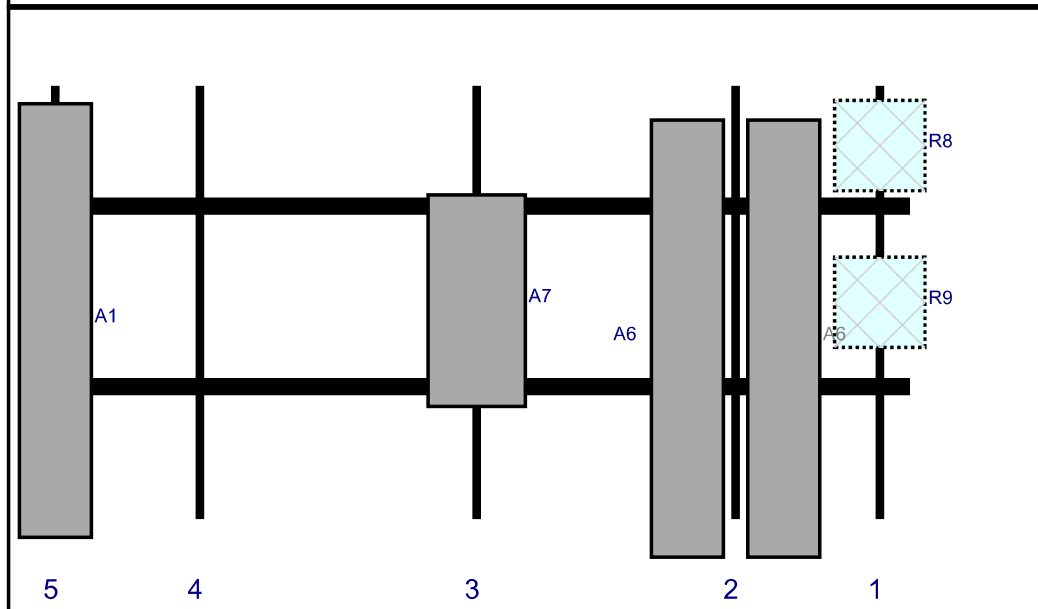
Schedule A – Photo & Document File Structure

-  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

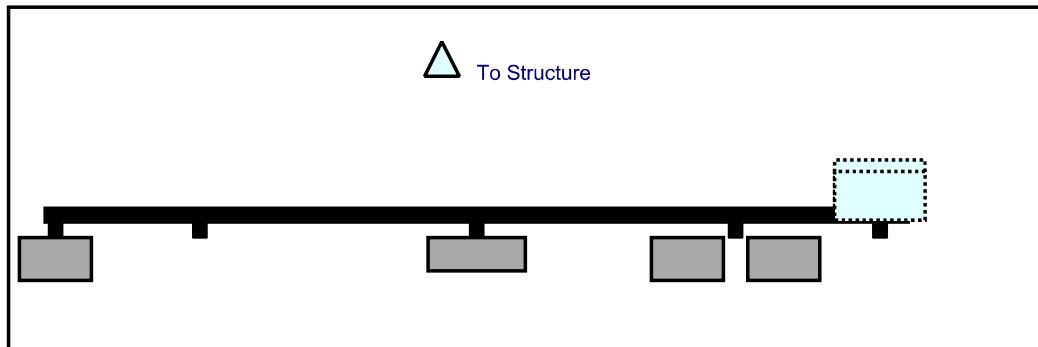


Front View
Looking at Structure

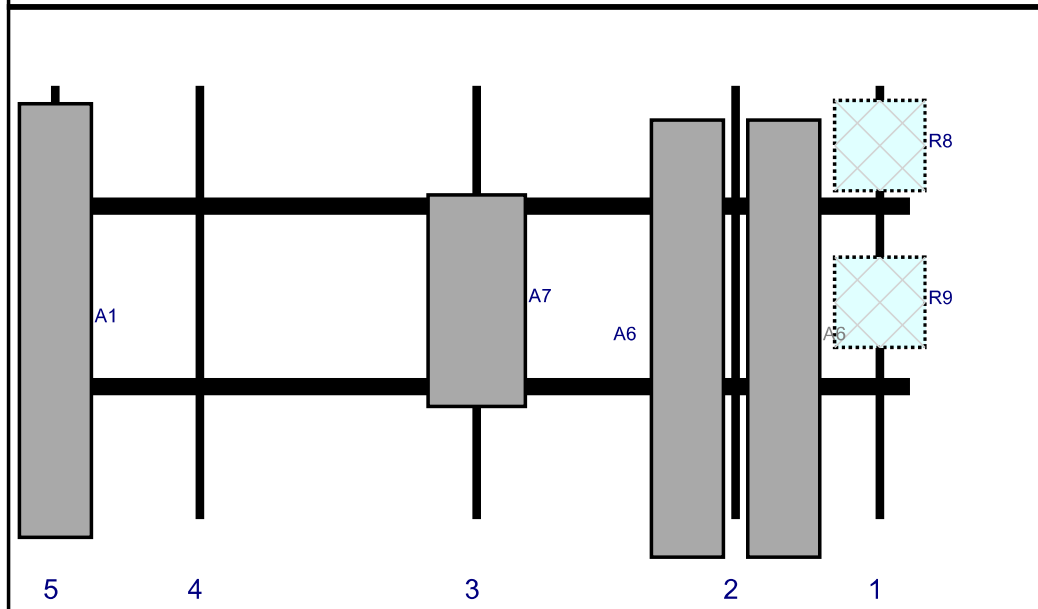


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R8	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	139	1	a	Behind	9.96	0	Added	
R9	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	139	1	a	Behind	36	0	Added	
A6	SBNHH-1D65B	72.6	11.9	115	2	a	Front	42	-8	Added	
A6	SBNHH-1D65B	72.6	11.9	115	2	b	Front	42	8	Added	
A7	MT6407-77A	35.1	16.1	72	3	a	Front	35.7	0	Added	
A1	LNx-6514DS-VTM	72	11.9	2	5	a	Front	39	0	Retained	02/25/2021

Plan View

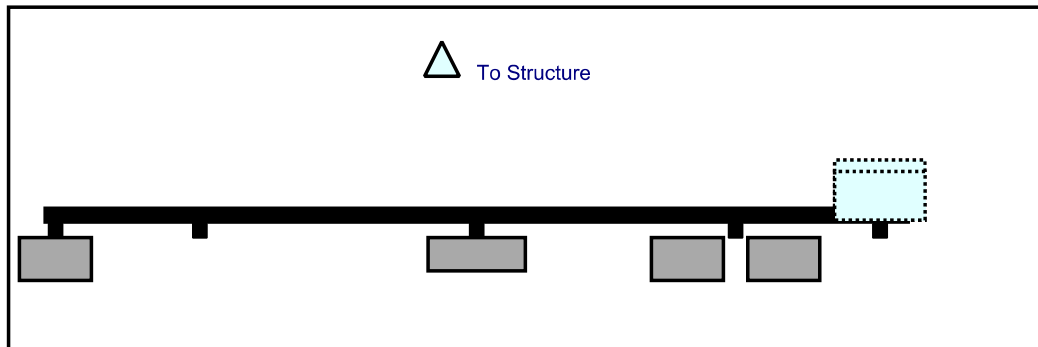


Front View
Looking at Structure

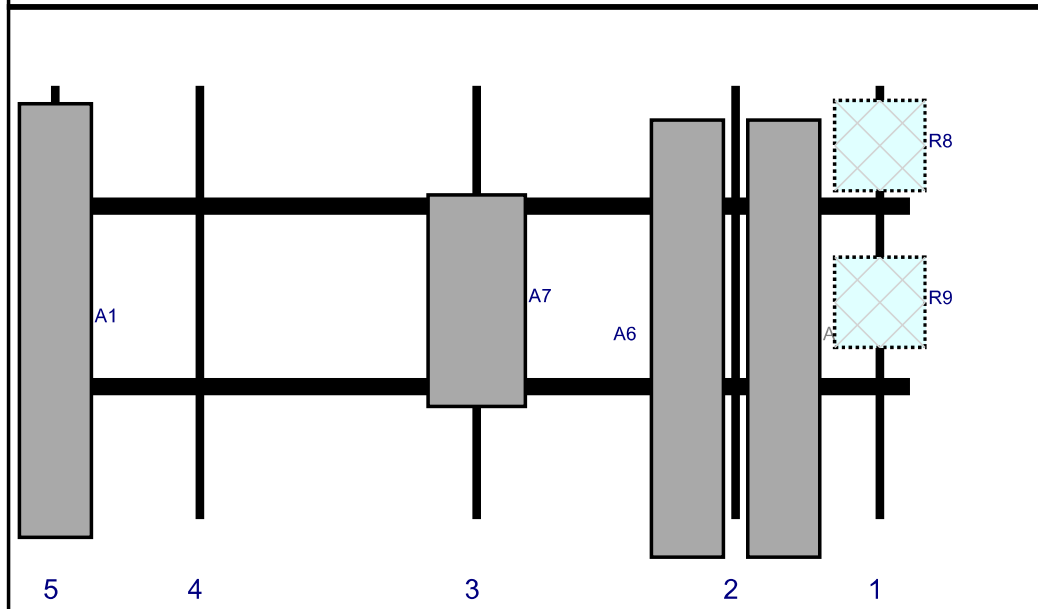


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R8	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	139	1	a	Behind	9.96	0	Added	
R9	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	139	1	a	Behind	36	0	Added	
A6	SBNHH-1D65B	72.6	11.9	115	2	a	Front	42	-8	Added	
A6	SBNHH-1D65B	72.6	11.9	115	2	b	Front	42	8	Added	
A7	MT6407-77A	35.1	16.1	72	3	a	Front	35.7	0	Added	
A1	LNx-6514DS-VTM	72	11.9	2	5	a	Front	39	0	Retained	02/25/2021

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	SBNHH-1D65B	72.6	11.9	115	2	a	Front	42	-8	Added	
A6	SBNHH-1D65B	72.6	11.9	115	2	b	Front	42	8	Added	
A7	MT6407-77A	35.1	16.1	72	3	a	Front	35.7	0	Added	
A1	LNx-6514DS-VTM	72	11.9	2	5	a	Front	39	0	Retained	02/25/2021
R8	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	139	1	a	Behind	9.96	0	Added	
R9	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	139	1	a	Behind	36	0	Added	

Subject TIA-222-H Usage

Site Information Site ID: 467314-VZW / Bozrah East
Site Name: Bozrah East CT
Carrier Name: Verizon Wireless
Address: 131 GIFFORD LANE, BOZRAH, CONNECTICUT 6334, NEW
LONDON COUNTY
Latitude: 41.552222°
Longitude: -72.151111°

Structure Information Tower Type: 190-Ft Self Support
Mount Type: 12.00-Ft T-Frame

To Whom It May Concern,

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

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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 #: 30026

BOZRAH EAST CT

SITE #: 467314

SMART TOOL PROJECT #: 10081643



MOUNT INFORMATION:

MOUNT TYPE: 12'-0" SECTOR MOUNT
 SITE LOCATION:
 LAT.: 41.5525°
 LONG.: -72.150833°
 STREET ADDRESS: 131 GIFFORD LANE
 CITY, STATE ZIP: BOZRAH, CT 06334
 COUNTY: NEW LONDON

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H
 WIND SPEEDS: 123 MPH 3-SECOND GUST
 50 MPH 3-SECOND GUST (W/ ICE)
 ICE THICKNESS: 1"
 RISK CATEGORY: II
 EXPOSURE CATEGORY: B
 TOPO CATEGORY: 1
 SEISMIC CRITERIA:
 SITE CLASS: D
 RESPONSE COEFFICIENT (R): 2
 1-SECOND SPECTRAL RESPONSE ACCELERATION (S₁): 0.054
 SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S₂): 0.197

PROJECT CONTACTS:

MASER CONSULTING CONTACT:
 PETER ALBANO
 PETER.ALBANO@COLLIERSENGINEERING.COM
 (866) 371-9457
 PROJECT #: 20777639

ENGINEER CONTACT:

GPD ENGINEERING AND ARCHITECTURE
 PROFESSIONAL CORPORATION
 520 S 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: MODIFICATION SCHEDULE & DETAILS
- S-03 - S-05: DETAILS/PARTS
- S-06: MOUNT PHOTOS

CONTRACTOR PMI REQUIREMENTS:

PMI LOCATION: [HTTPS://PMI.VZWSMART.COM](https://pmi.vzwsmart.com)
 SMART TOOL PROJECT #: 10081643
 VZW LOCATION CODE (PSLC): 467314
 FUZE ID: 16244580

REFERENCED DOCUMENTS:

FALLING MOUNT ANALYSIS REPORT
 SMART TOOL PROJECT #: 10032610
 GPD PROJECT #: 20211740.467314.01
 ANALYSIS DATE: 6/22/2021

BOZRAH EAST CT
 131 GIFFORD LANE
 BOZRAH, CT 06334

TITLE SHEET

ISSUED FOR:	
PERMIT:	7/16/21
REV:	
CONSTRUCTION RECORD:	

OWNER:	DESIGNER:
E&A:	E&A:
PROJECT NUMBER:	APPROPRIATE:
DP:	CIS:

JOB NO.
 2021740.467314.02

T-01



REV	DATE	DESCRIPTION
0		INITIAL RELEASE





GPO Engineering and Architecture
 100 Main Street
 03025-2110 New Britain, CT

BOZRAH EAST CT
 SITE # 023403
 SITE # 023403
 PREPARED FOR

SMART TOOL PROJECT #: 1000104

REV	DATE	DESCRIPTION
0	7/1/21	INITIAL RELEASE

BOZRAH EAST CT
 131 GIFFORD LANE
 BOZRAH, CT 06334

ISSUED FOR:	7/1/21
PERMIT	
BD	
CONSTRUCTION	
RECORD	

OWNER	DESIGNER
PROJECT NUMBER	APPROVED BY

JOB NO.
 2021740.467314.02

S-01

BILL OF MATERIALS

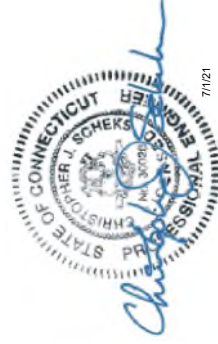
VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
OTHER REQUIRED KITS				
3	MISC.	4'-0" (F-V) P2 STD PIPE	TIEBACK PIPE	FIELD VERIFY REQUIRED LENGTH. SEE PAGE N-01 FOR STEEL GRADE REQUIREMENTS.
3		8'-0" P2.5 STD PIPE	MOUNT PIPE	SEE PAGE N-01 FOR STEEL GRADE REQUIREMENTS.
3		SFS-V	V-STYLE REINFORCEMENT KIT	
12	SITE PRO 1	PUCK	CROSSOVER PLATE ASSEMBLY	
6		SCK7-LJ	CROSSOVER PLATE ASSEMBLY	

NOTES:
 1. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-8788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-4723
EMAIL	WIRELESSALES@PERFECT-VISION.COM
WEBSITE	WWW.PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(686) 428-6387
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-6843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM





GFC Engineering and Architecture
 131 GIFFORD LANE
 BOZRAH, CT 06334
 860.439.1111

verizon
 BOZRAH EAST CT
 SITE # 40744
 PREPARED FOR:

verizon
 SMART TOOL PROJECT # 1001544

REV	DATE	DESCRIPTION
0	7/1/21	INITIAL RELEASE

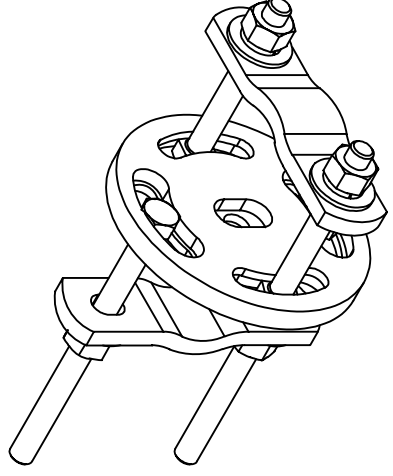
BOZRAH EAST CT
 131 GIFFORD LANE
 BOZRAH, CT 06334

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PERMIT	7/1/2021
BID	-
CONSTRUCTION	-
RECORD	-

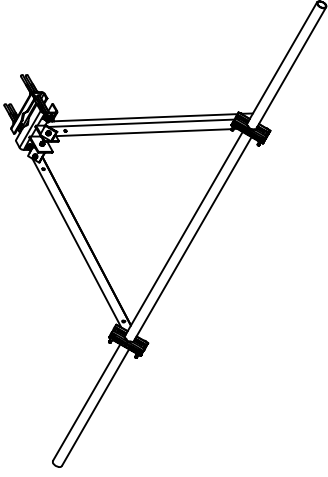
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DATE	DATE	DATE	DATE
PROJECT NUMBER	APPROVED BY	PROJECT NUMBER	APPROVED BY
DP	CJB	DP	CJB

JOB NO.
 2021740.467314.02

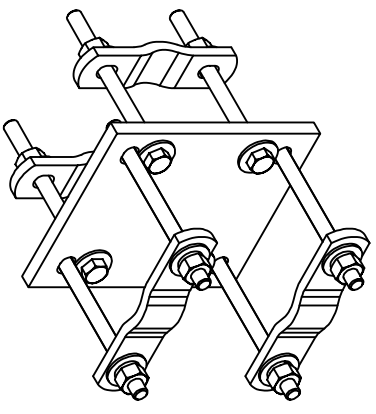
S-03



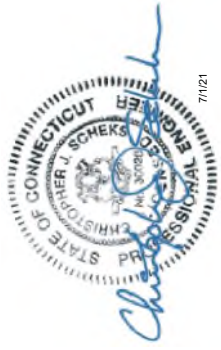
5 PUCK CROSSOVER PLATE ASSEMBLIES
 S-03



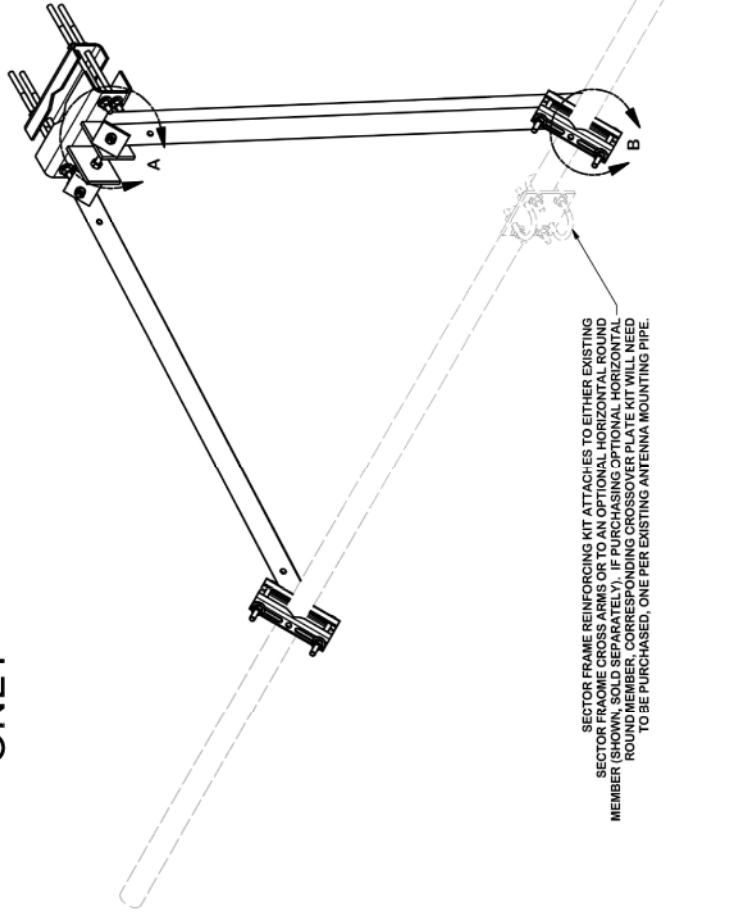
4 SFS-V V-STYLE REINFORCEMENT KIT
 S-03



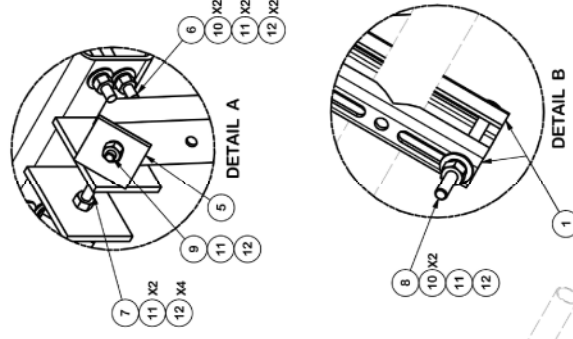
6 SCX7-U CROSSOVER PLATE ASSEMBLIES
 S-03



REFERENCE ONLY



SECTOR FRAME REINFORCING KIT ATTACHES TO EITHER EXISTING MEMBER (SHOWN, SOLD SEPARATELY), IF PURCHASING OPTIONAL HORIZONTAL ROUND MEMBER, CORRESPONDING CROSSOVER PLATE KIT WILL NEED TO BE PURCHASED, ONE PER EXISTING ANTENNA MOUNTING PIPE.



ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	5.49
2	2	X-232897	TRPD-H-D DIAGONAL ANGLE - SITE PRO 1	52 1/2 in	14.35	28.69
3	1	CFS	LOWER GATE FOOT WELDMENT	12.72	12.72	12.72
4	1	GBB	GATE BACKING BAR	11 1/2 in	4.53	4.53
5	2	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	3.72
6	4	G12R-15	1/2" x 15" THREADED ROD (HDG.)		0.40	1.60
7	1	G12R-6	1/2" x 6" GALV. THREADED ROD		0.33	0.33
8	4	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	1.64
9	4	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1 1/2 in	0.15	0.59
10	16	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.55
11	18	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.25
12	20	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.43
					TOTAL WT. #	65.66

REV	DATE	DESCRIPTION
0	7/1/21	INITIAL RELEASE

ISSUED FOR:	7/1/2021
PERMIT:	
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RECORD:	

NAME:	DATE:
SCALE:	APPROVED:
PROJECT:	C/S:

CPD NO.	5563	CLASS	81	01
DATE	10/25/2017	BY	BC	
DESCRIPTION	CHANGED MAX. DIA. FOR HANDRAIL CONNECTION			
REVISIONS				
HISTORY				

CPD NO.	5563	CLASS	81	01
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REVISIONS				
HISTORY				

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PROJECT:	C/S:

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REVISIONS				
HISTORY				

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REV	DATE	DESCRIPTION
0	7/1/21	INITIAL RELEASE

BOZRAH EAST CT
 131 GIFFORD LANE
 BOZRAH, CT 06334

DETAILS/PARTS

ISSUED FOR:	DATE:
PERMIT	7/1/2021
BID	
CONSTRUCTION	
RECORD	

THROW:	DATE:
FORN	FORN
WORLD TRAVEL	APPROVED
EP	C/S

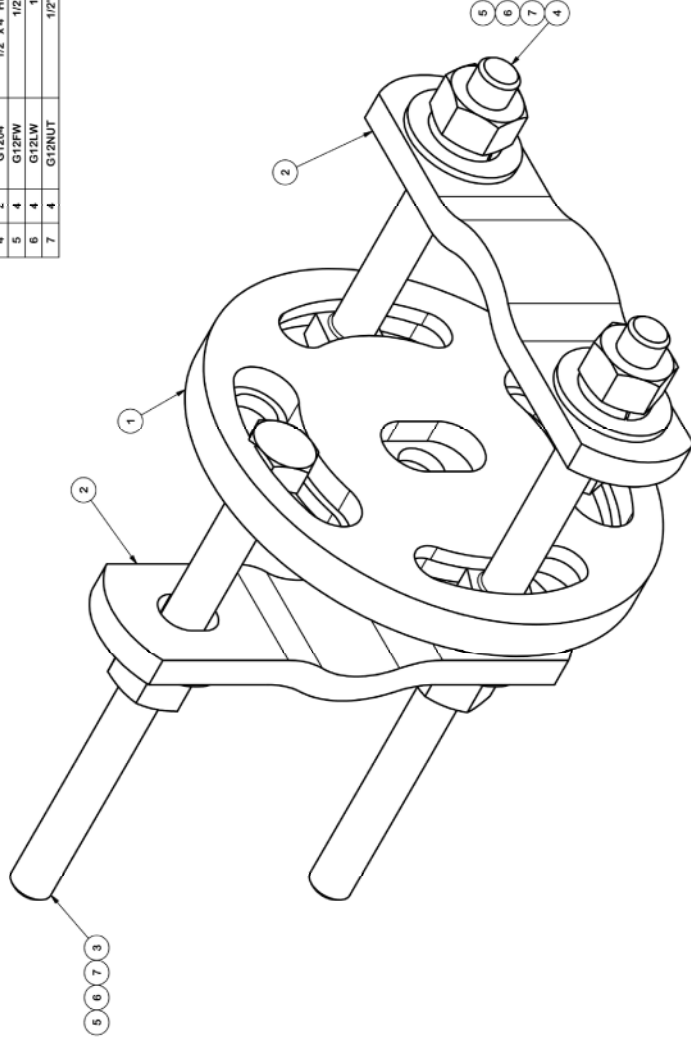
JOB NO.
2021740.467314.02

S-05

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALVANIZED)		2.48	2.48
2	2	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	1.83
3	2	G12065	1/2" X 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6.12 in	0.41	0.82
4	2	G1204	1/2" X 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	0.54
5	4	G12PW	1/2" HDG USS FLATWASHER		0.03	0.14
6	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
7	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
					TOTAL WT. #	6.16

REFERENCE ONLY



TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (+/- 0.0307)
 MACHINED SURFACES (+/- 0.0078)
 LASER CUT EDGES AND HOLES (+/- 0.0107) - NO CONING OF HOLES
 BENDS ARE +/- 1/2 DEGREE
 ALL OTHER MACHINING (+/- 0.0307)
 ALL OTHER MACHINING (+/- 0.0607)

THIS DRAWING AND THE DIMENSIONS CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT. ANY REUSE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT IS PROHIBITED. A TOLERANCE OF +/- 0.0078 IS ASSUMED UNLESS OTHERWISE SPECIFIED.

DESCRIPTION	CLASS	DATE	BY	DATE	BY
ADJUSTABLE CLAMP PLATE TIE-BACK ASSEMBLY	81	01	CUSTOMER	9/1/2010	BMC

ISSUED FOR:	DATE:
PERMIT	7/1/2021
BID	
CONSTRUCTION	
RECORD	

THROW:	DATE:
FORN	FORN
WORLD TRAVEL	APPROVED
EP	C/S

JOB NO.
2021740.467314.02

S-05



DATE	DESCRIPTION	INITIALS	REVISION
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1/21/12			

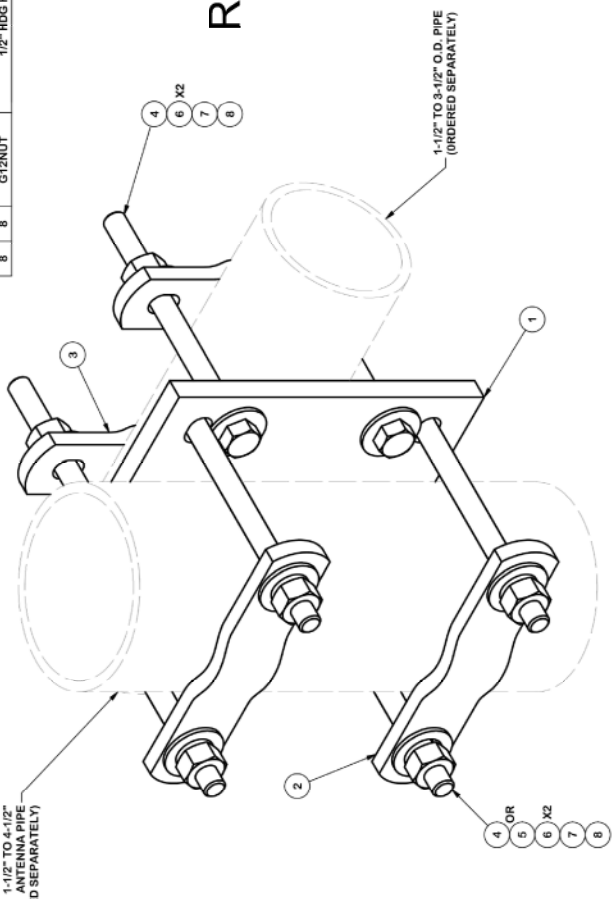
BOZRAH EAST CT
 131 GIFFORD LANE
 BOZRAH, CT 06334
 DETAILS/PARTS

ISSUED FOR:	7/1/2010
PERMIT:	
BID:	
CONSTRUCTION:	
RECORD:	

JOB NO.
 2021740.467314.02
 S-06

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX7	CROSSOVER PLATE	8 in	7.55	7.55
2	2	X-115765	5" V-CLAMP		1.02	2.04
3	2	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	1.83
4	8	G12065	1/2" X 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	3.28
5	4	G12045	1/2" X 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	1.19
6	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54
7	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
8	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	16.98

REFERENCE ONLY



DESCRIPTION	CROSSOVER PLATE (V-CLAMP STYLE)
DRAWN BY	CEK 10/7/2010
CHECKED BY	BMC 10/8/2010
PART NO.	SCX7-U
DWG. NO.	SCX7-U

TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWN, SHEARED AND GAS CUT EDGES (+/- 0.030")
 ALL OTHER MACHINING (+/- 0.010")
 LASER CUT EDGES AND HOLES (+/- 0.010") - NO CONING OF HOLES
 BENDS ARE +/- 1/2 DEGREE
 ALL OTHER MACHINING (+/- 0.030")
 ALL OTHER ASSEMBLY (+/- 0.030")

THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF GPS ENGINEERING AND ARCHITECTURE IS PROHIBITED.

CPD NO.	81	CLASS	01	SUB	01
DRAWING USAGE	CUSTOMER	ENG. APPROVAL	10/7/2010	CHECKED BY	BMC 10/8/2010
PAGE	1	OF	1		



GPS Engineering and Architecture
Professional Engineers
101 MAIN STREET
SUITE # 407A
BOZRAH, CT 06334
PHONE: 860.261.1232

verizon
BOZRAH EAST CT
SITE # 407A
CONSTRUCTION PREPARED FOR

verizon
SMARTCLOUD PROJECT # 1001046

REV	DATE	DESCRIPTION
0	7/1/21	INITIAL RELEASE

BOZRAH EAST CT
131 GIFFORD LANE
BOZRAH, CT 06334

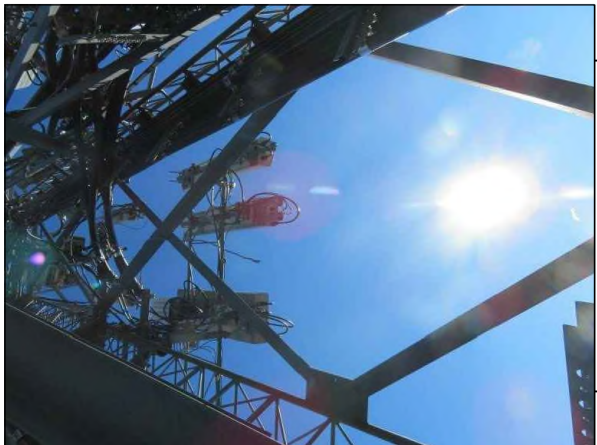
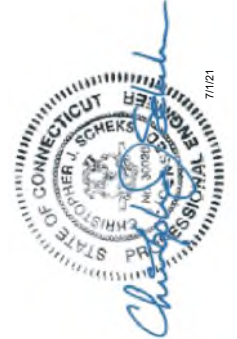
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ISSUED FOR:	7/1/2021
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ISSUED BY:	
CONSTRUCTION	
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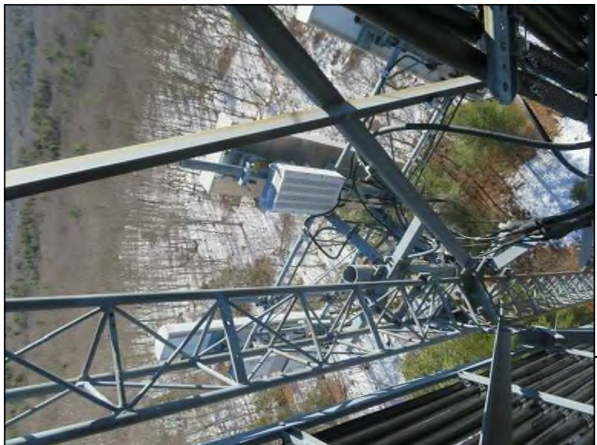
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SEALED:	SEALED:
PROJECT NUMBER:	APPROVED BY:
DATE:	CJG

JOB NO.
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S-07



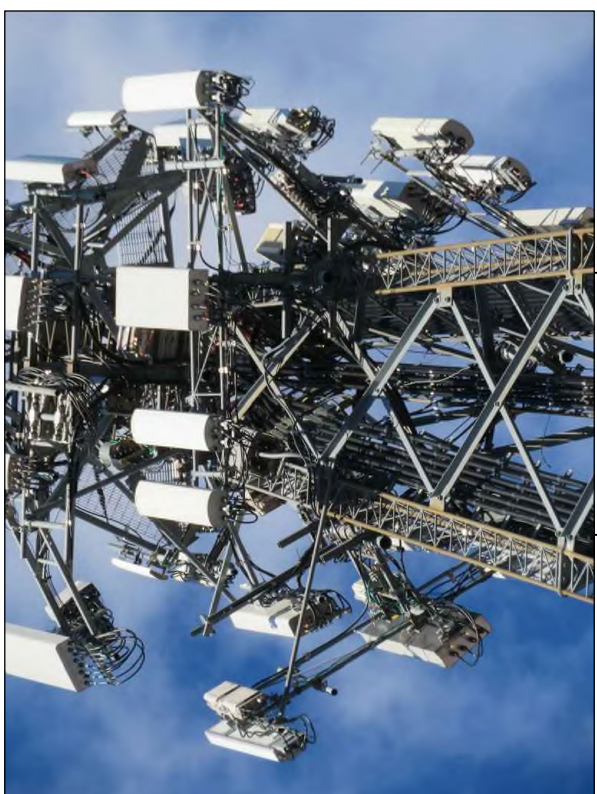
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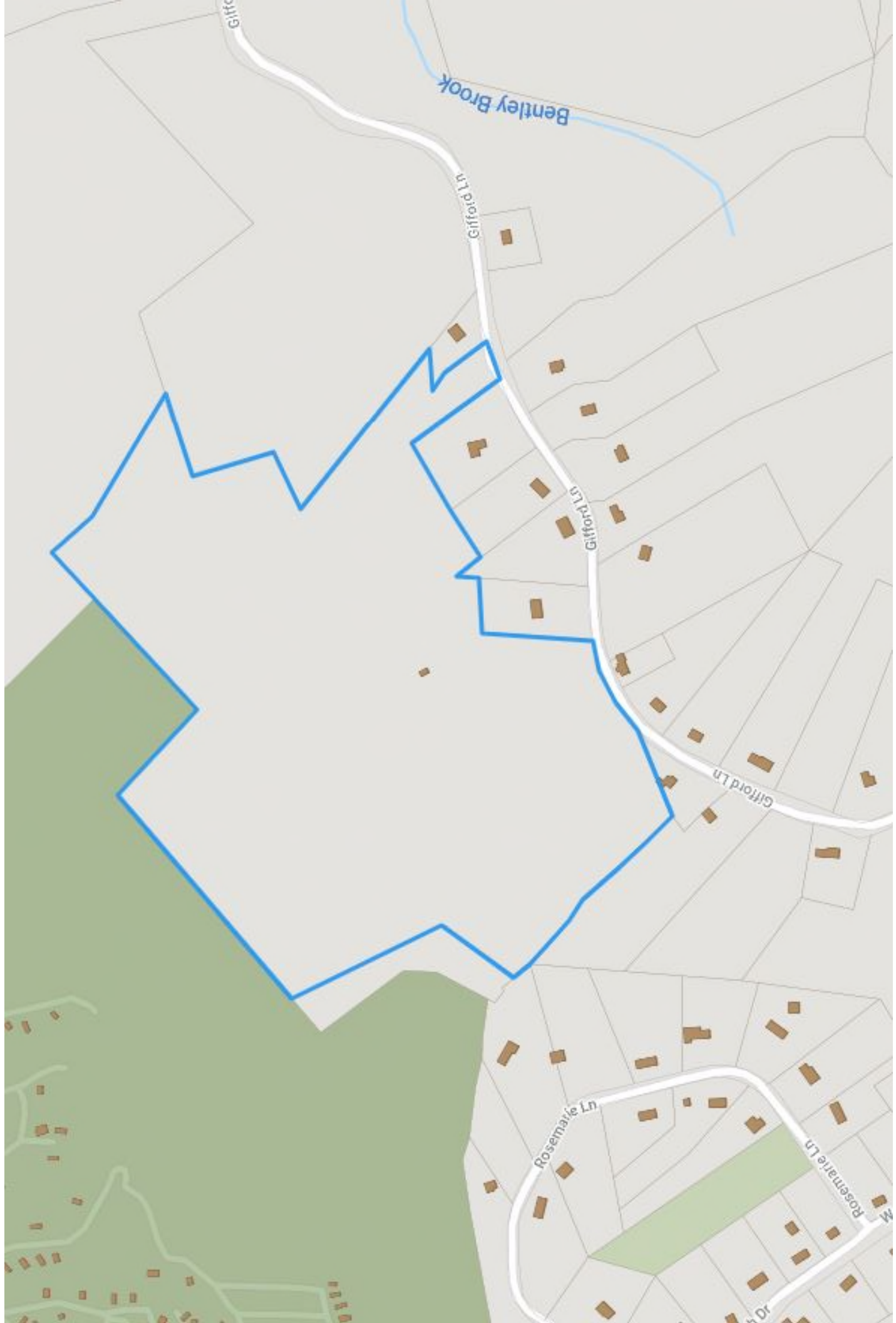


MOUNT PHOTO



MOUNT PHOTO

ATTACHMENT 5



All information is for assessment purposes only. Assessments are calculated at 70% of the estimated October 1, 2017 market value which was the date of the last revaluation as completed by eQuality Valuation Services, LLC.



Information on the Property Records for the Municipality of Bozrah was last updated on 10/22/2021.



Parcel Information

Location:	141 GIFFORD LA	Property Use:	Vacant Land	Primary Use:	Residential Vacant Land
Unique ID:	24000633	Map Block Lot:	07/119	Acres:	61.21
490 Acres:	61.21	Zone:	R-1	Volume / Page:	0090/0519
Developers Map / Lot:		Census:	7131		

Value Information

	Appraised Value	Assessed Value
Land	89,244	17,140
Buildings	0	0
Detached Outbuildings	0	0
Total	89,244	17,140

Owner's Information

Owner's Data
NGA CAPITAL LLC 38 BOZRAH ST BOZRAH, CT 06334

ATTACHMENT 6



BOZRAH EAST
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here <i>Postmark with Date of Receipt.</i>
	Postmaster, per (name of receiving employee) <i>NO</i>		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Glenn Pianka, First Selectman Town of Bozrah 1 River Road Bozrah, CT 06334				
2.	Katie DeCarli, Wetlands and Zoning Agent Town of Bozrah 1 River Road Bozrah, CT 06334				
3.	NGA Capital LLC 1 River Road Bozrah, CT 06334				
4.					
5.					
6.					