

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

June 30, 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
26 Mell Road, Lisbon, 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 Lisbon in October 1998. Cellco’s shared use of the tower were approved by the Council in December 2000 (TS-VER-073-001117). A copy of the Town’s approval and the Council’s tower share approval are included in Attachment 1.

Cellco now intends to modify its facility by installing three (3) Samsung MT6407-77A antennas on its existing antenna platform. Cellco also intends to remove six (6) of its remote radio heads (“RRHs”) and install six (6) new RRHs behind its antennas. Project plans showing Cellco’s proposed facility modifications and new antenna and RRHs specifications 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 Lisbon’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
June 30, 2021
Page 2

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 and RRHs will be installed on Cellco's existing mount.

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. Far Field Approximation Tables for the 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 platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineer responsible for the preparation of the SA verifying that the antenna model described in the SA as a VZS01 Antenna is the Samsung 64T64R model antenna.

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.
June 30, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenneth C. Baldwin', with a stylized, cursive script.

Kenneth C. Baldwin

Enclosures

Copy to:

Thomas W. Sparkman, Lisbon First Selectman
Michael J. Murphy, Town Planner
Stanley Wildowsky, Jr., Property Owner
Aleksey Tyurin

ATTACHMENT 1



PLANNING & ZONING COMMISSION
TOWN OF LISBON
1 Newent Road
Lisbon, Connecticut 06351

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 5, 1998

Mr. Scott Thomae
SBA, Inc.
125 Shaws Cove #116
New London, Connecticut 06320

RE: Special Permit Application-SBA, Inc./NEXTEL Communications
26 Mell Road

Dear Mr. Thomae:

At the regular meeting of the Lisbon Planning and Zoning Commission held on January 5, 1998, your Special Permit application to construct a wireless telecommunications facility at 26 Mell Road was reviewed and approved with conditions which are attached to the enclosed form.

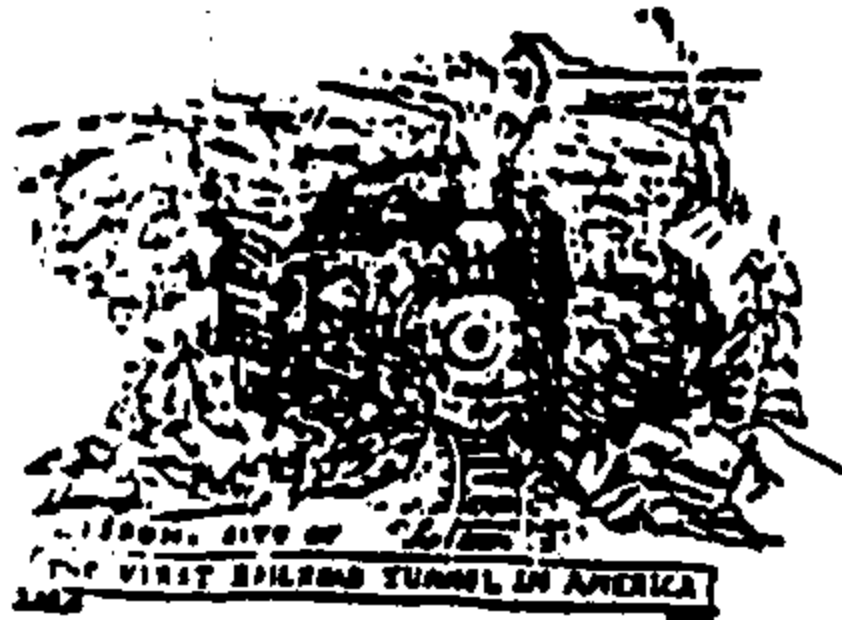
Please note that no approved Special Permit shall be effective until a copy of the enclosed completed form is recorded in the land records of the Town of Lisbon. The Town Clerk shall index the same in the grantor's index under the name of the record owner and the record owner shall pay for such recording, Section 8-3d, Connecticut General Statutes.

Sincerely,

Robert Adams, Chairman
Lisbon Planning and Zoning Commission

RA/ml

c: Rex Champany, Building Inspector/ZEO
File



PLANNING & ZONING COMMISSION
TOWN OF LISBON
1 Newent Road
Lisbon, Connecticut 06351

LEGAL NOTICE

NOTICE OF DECISION

At the regular meeting of the Lisbon Planning and Zoning Commission held in the Lisbon Town Hall on January 5, 1999, the following action was taken:

1. An application by Gran-Lee, LLC for a Special Permit to develop an eating and drinking establishment together with the development of joint access and parking facilities for lots 7 and 8 at 106 and 110 River Road.

APPROVED WITH CONDITIONS

2. An application by Gran-Lee, LLC and Lisbon Land Assoc., Inc. for a Zoning Permit for an eating and drinking establishment together with the development of joint access and parking facilities for lots 7 and 8 at 106 and 110 River Road, Lisbon

APPROVED WITH CONDITIONS

3. An application by SBA, Inc. And NEXTEL Communications for a Special Permit to construct a wireless telecommunications facility at 26 Mell Road, Lisbon, CT

APPROVED WITH CONDITIONS

Robert Adams, Chairman

PLEASE PUBLISH "THE BULLETIN":

1 X

IMMEDIATELY

FAX MEMO

PAGES 1 DATE 1/7/99
TO Lisbon Bulletin
FROM Lisbon P&Z - Markene
CO. TOWN OF LISBON
PH # 376-3400 FAX # 376-6545

RECEIVED FOR RECCRD AT LISBON,

DATE 1/7/99 AT 2:30 PM
ATTEST: EETSY M. BARRETT, TOWN CLERK

MINUTES
PLANNING AND ZONING COMMISSION
TUESDAY, JANUARY 5, 1999
page 2

b). Regulations - Final revisions in progress.

OLD BUSINESS:

a). Wheelabrator Boat Launch

Mr. John O'Rourke, Operations Mgr. representing Wheelabrator, informed the Commission that the open space improvements have been completed, and the conditions of the Special Permit have been completed. A final inspection is needed then the certificate of zoning compliance be issued.

A motion was made by William Kuusela, seconded by Dennis Savage, to have the Town's Attorney and Engineer look into the original permit and Host Town Agreement to make sure that they're in total compliance before we issue the final permits.

VOTE: UNANIMOUS MOTION CARRIED

b). Special Permit Apl., Gran-Lee LLC

Mr. Rabbitt read his Planner's Letter-1/5/99, with eleven (11) recommended conditions. He also recommended that #11 include "right hand only stop".

William Belisle motioned that we approve the Special Permit with the condition that the egress be limited to one lane at its intersection of Rt. 12, and the Planner's eleven conditions. There was no second to the motion.

Mr. Kuusela then motioned (to approve) and to ask to have the exit and entrance reversed and with the Planner's eleven conditions. The motion was seconded by George Williams. The motion was withdrawn by Mr. Kuusela. Mr. Williams withdrew his second.

A motion was made by Dennis Duplice to approve with a single lane exit (remove the right hand northbound turning lane), the addition of another handicapped space (western most space of the existing office space), and with the Planner's eleven conditions.

VOTE: William Belisle-YES, William Kuusela-NO, David Gagnon-YES, Lawrence Alice-ABSTAIN, George Williams-NO, Dennis Savage-YES, Dennis Duplice-YES, Robert Adams-ABSTAIN

MOTION CARRIED

c). Zoning Permit Apl. Gran-Lee LLC & Lisbon Land Assoc., Inc.

A motion was made by Dennis Duplice, seconded by William Belisle, to approve with the same conditions as the Special Permit: a single lane exit (remove the right hand northbound turning lane), the addition of another handicapped space (western most space of existing office space), and the Planners eleven conditions.

VOTE: William Belisle-YES, William Kuusela-NO, David Gagnon-YES, Lawrence Alice-ABSTAIN, George Williams-NO, Dennis Savage-YES, Dennis Duplice-YES, Robert Adams-ABSTAIN

MOTION CARRIED

d). Special Permit Apl. SBA Inc./NEXTEL

Mr. Rabbitt read his Planner's Letter, 1/5/99 with two (2) recommended conditions. He also

MINUTES
PLANNING AND ZONING COMMISSION
TUESDAY, JANUARY 5, 1999
page 3

recommended a third condition; the applicant must meet with Section 9.13.5b. (of the Zoning Regulations) to control the fall zone.

A motion was made by Dennis Duplice, seconded by George Williams, to approve with the three conditions.

VOTE: UNANIMOUS MOTION CARRIED

RECEIPT OF NEW APPLICATIONS: none

NEW BUSINESS:

a). Zoning Permit Apl.-M. Patterson

Mr. Adams noted a completed application from Mark Patterson, \$60 fee payment for a Zoning Permit for a Home Occupation (hair salon) at 5 Kendall Road, and a Letter of Consent from Richard Patterson, owner.

A motion was made by William Kuusela, seconded by Lawrence Alice, to accept the application for review.

VOTE: UNANIMOUS MOTION CARRIED

Dennis Duplice motioned to table. David Gagnon seconded the motion.

VOTE: UNANIMOUS MOTION CARRIED

OTHER BUSINESS:

After a brief discussion, it was the general consensus of those present to have Rex Champany, Building Inspector/ZEO, investigate reports of an active sand and gravel operation on Ross Hill Road.

Dennis Duplice motioned to adjourn at 8:35 p.m. David Gagnon seconded the motion.

VOTE: UNANIMOUS MOTION CARRIED


Marlene LePine, clerk

APPROVED _____
Robert Adams, Chairman

RECEIVED FOR RECORD AT LISBON,

JAN 11/7/99 AT 2:30pm

ATTEST: BETSY M. BARRETT, TOWN CLERK

*Attn: Tom White***SOUTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS****5 Connecticut Avenue, Norwich, Connecticut 06360
(860) 889-2324/Fax: (860) 889-1222/Email: seccog@snet.net**January 5, 1999**Robert Adams, Chairman
Lisbon Planning and Zoning Commission
Town of Lisbon
1 Newent Road
Lisbon, CT 06351****RE: SBA Inc. and Nextel Communications Special Permit Application****Dear Mr. Adams:**

I prepared a review of the application by SBA Inc. and Nextel Communications for a Wireless Telecommunications Facility at 26 Mell Road, Assessor's Map 9, Lot 73.

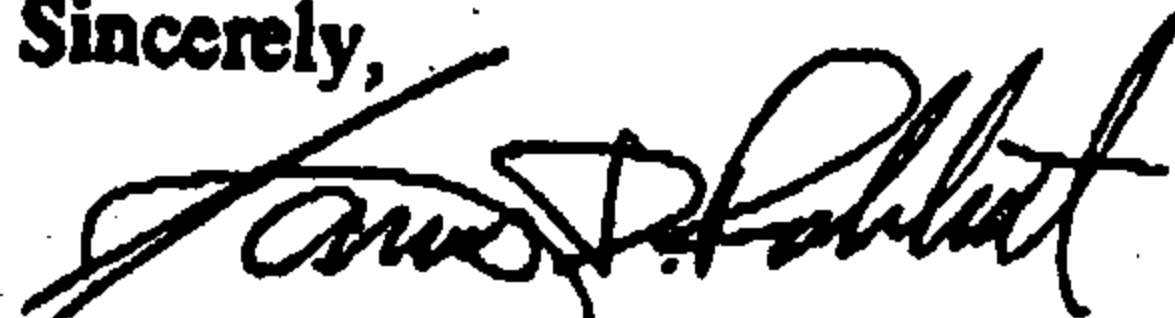
The application was received by the Lisbon Planning & Zoning Commission on October 6, 1998. The Commission scheduled a public hearing on October 29, 1998 at 7:00 PM. The Commission has 30 days to close the public hearing. The applicant may grant one or more extensions of time up to a total of an additional 30 days. The public hearing was closed on December 1, 1998. The Commission must make a decision within 65 days of the close of the public hearing, unless, the applicant agrees to one or more extensions of time, which may be up to a total of an additional 65 days. However, since a site plan is part of the application, the Commission has 65 days to render a decision on a site plan from the date of receipt. The applicant may consent to one or more extensions of such period, provided the total time does not exceed two further sixty-five-day periods, or may withdraw such application. The applicant did grant an extension on December 1, 1998, 35 days. Consequently, decision needs to be made by January 5, 1999, unless the applicant grants and extension of time.

Presently the plans submitted by the applicant would meet the Town of Lisbon Zoning Regulations with the addition of the 2 conditions stated below. However, the planner reserves the right to comment on the application after reviewing the conditions with the Planning and Zoning Commission based on the public record.

1. The applicant shall modify their existing site plan to show that all new utilities will be installed underground.
2. The applicant shall post surety in the amount of \$10,000 prior to any construction, grading and/or excavation activity, and/or prior to the issuance of a building permit. The final type of surety to be determined by Planning Commission Counsel.

If you have any questions please call me at 1-860-889-2324.

Sincerely,



**James D. Rabbitt, AICP
Lisbon Town Planner/SCCOG Senior Planner**

special permit review-3.wpd

Member Municipalities:

Borah • Colchester • East Lyme • Franklin • Griswold • City of Groton • Town of Groton • Ledyard • Lisbon •
Montville • New London • North Stonington • Norwich • Preston • Salem • Sprague • Stonington • Storington
Borough • Voluntown • Waterford

Lisbon CT0167-S

PLANNING & ZONING COMMISSION
TOWN OF LISBON

1 Hewitt Road
Lisbon, Connecticut 06351

LEGAL NOTICE

NOTICE OF DECISION

At the regular meeting of the Lisbon Planning and Zoning Commission held in the Lisbon Town Hall on January 5, 1999, the following action was taken:

1. An application by Gran-Lee, LLC for a Special Permit to develop an eating and drinking establishment together with the development of joint access and parking facilities for lots 7 and 8 at 106 and 110 River Road.
APPROVED WITH CONDITIONS
2. An application by Gran-Lee, LLC and Lisbon Land Assoc., Inc. for a Zoning Permit for an eating and drinking establishment together with the development of joint access and parking facilities for lots 7 and 8 at 106 and 110 River Road, Lisbon.
APPROVED WITH CONDITIONS
3. An application by SBA, Inc. And NEXTEL Communications for a Special Permit to construct a wireless telecommunications facility at 26 Mill Road, Lisbon, CT.
APPROVED WITH CONDITIONS

Robert Adams, Chairman

PLEASE PUBLISH "THE BULLETIN":

1 X

IMMEDIATELY

RECEIVED

RECEIVED FOR RECORD AT LISBON,
CT 01/07/99 AT 2:30 PM
ATTEST: BETSY M. BARRETT, TOWN CLERK

RECEIVED FOR RECORD AT LISBON,

CT 01/07/99 AT 2:30 PM

ATTEST: BETSY M. BARRETT, TOWN CLERK

BOOK 87 PAGE 781

APPLICATION FOR SPECIAL PERMIT

Lisbon Planning and Zoning Commission

To be completed by the Applicant:

Date: 10/01/98

Name and Address of Applicant: SBA Inc. 125 SHAFA STREET #116 NEW LONDON, CT
MOBILE/DELTAL COMMUNICATIONS 100 CORPORATE PINE ROCKY HILL, CT 06067The undersigned does hereby request a Special Permit as required by Section
2.11 9.136 9.14 of the Lisbon Zoning Regulations.

Location of Property 26 WELL ROAD / MAP 8 LOT 73

Owner of Record of Property STANLEY WILKOWSKY

Description of Proposed Use PLEASE REFER TO PROJECT DESCRIPTION ON THE
TITLE PAGE OF WELL ROAD ZONING DRAWINGS OR PAGE FOUR OF THE
PROJECT NARRATIVE.(The applicant shall submit with this completed application a site plan as pre-
scribed in Section 10 of the Lisbon Zoning Regulations.)

Signature of Applicant:

 AS AGENT

To be completed by the Commission:

Application No. _____

Date of Submission: 10-1-98

Date of Receipt: 10-1-98

Fee Paid: \$ 810-
25. 11/16/98

Date of Action: 1/5/99

Date of Public Hearing: 10/27/98

Approved: with attached conditions Denied: _____Reasons for ~~action~~ or modifications: Approved with the attached conditions:
Planner's (James D. Robbitt, AICP) letter January 5, 1999.

RECEIVED FOR RECORD AT LISBON,

OCT 12/20/99 AT 10:30 AM

ATTEST: BETSY M. BARRETT, TOWN CLERK

Signature

Approved with Conditions
No approved special permit shall be effective until a copy of this completed form
is recorded in the land records of the Town of Lisbon. The Town Clerk shall index
the same in the grantor's index under the name of the record owner and the record
owner shall pay for such recording. Sec. 8-3d, Connecticut General Statutes.)

December 19, 2000

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

RE: **TS-VER-073-001117** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 20 Nygren Road, Lisbon, 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 Thomas W. Sparkman, First Selectman, Town of Lisbon
Ester McNany, SBA, Inc.
Ronald C. Clark, Nextel Communications
Julie M. Cashin, Esq., Hurwitz & Sagarin, LLC
J. Brendan Sharkey, VoiceStream Wireless Corporation

ATTACHMENT 2

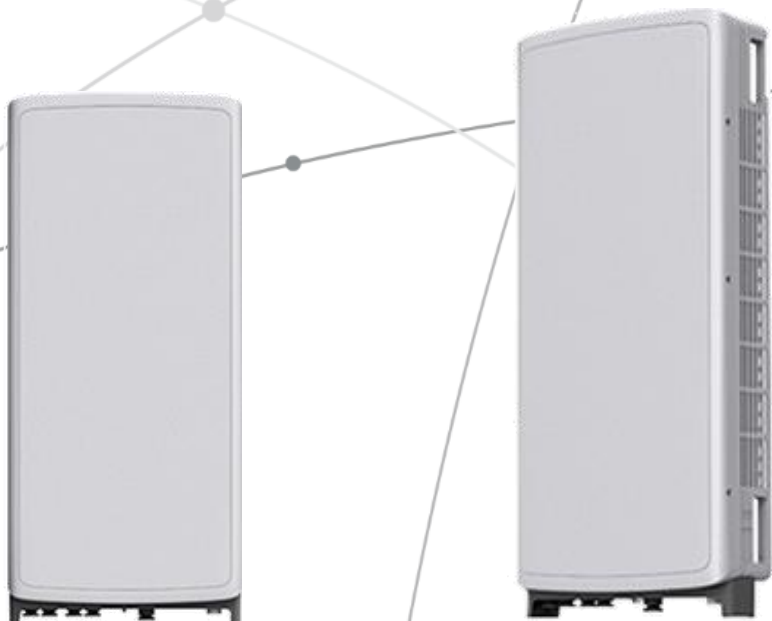
SAMSUNG

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



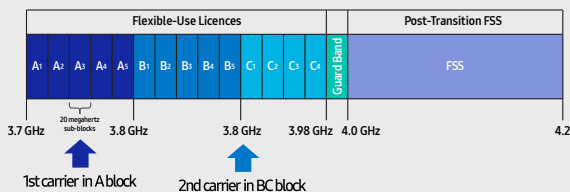
Points of Differentiation

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

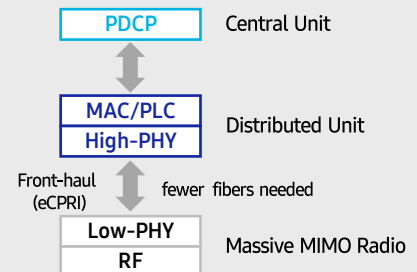
C-Band spectrum supported by Massive MIMO Radio



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.

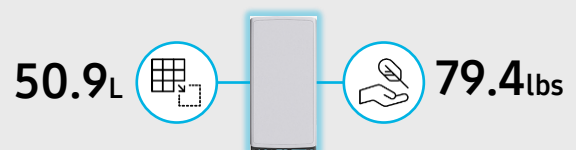
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

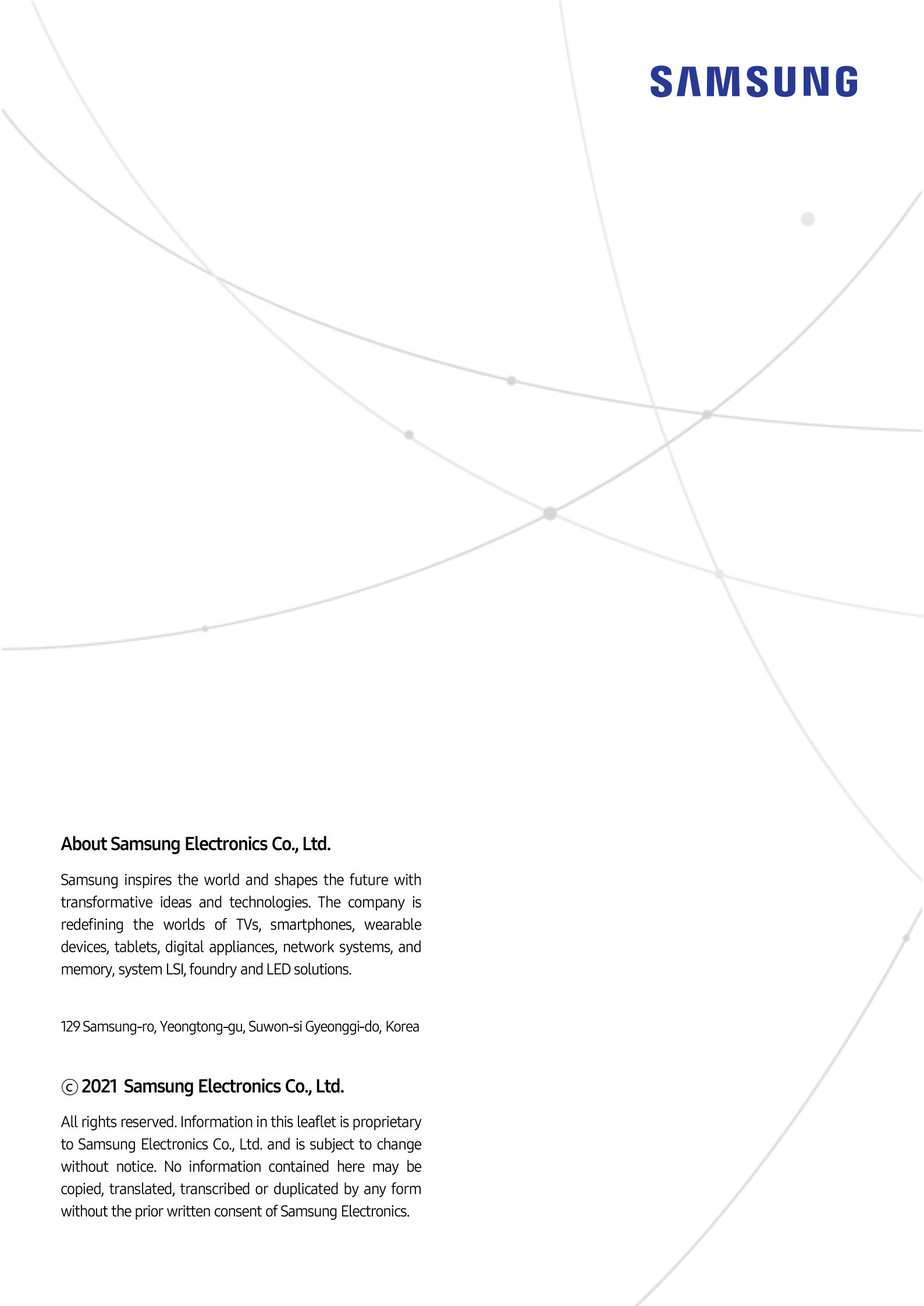
Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

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

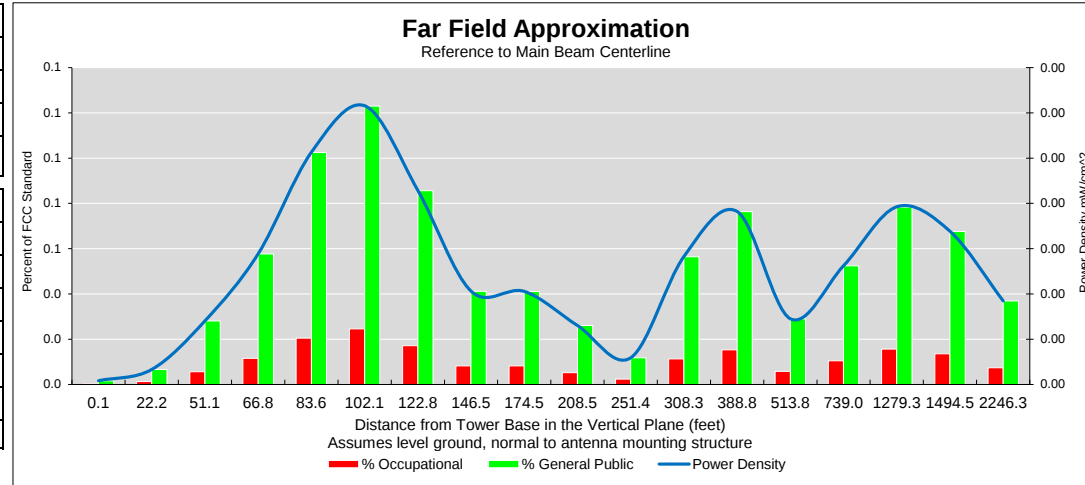
ATTACHMENT 3

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types



Location:	Lisbon CT
Site #:	2-0014
Date:	06/14/21
Name:	Wesley Stevens
File Name:	Lisbon CT - FF Power
Antenna Type:	SBNHH-1D65B
Operating Freq. (MHz):	751
Antenna Height (ft):	160.0
Antenna Gain (dBi):	14.5
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
Tx Power (W):	40.0
No. of Channels:	4



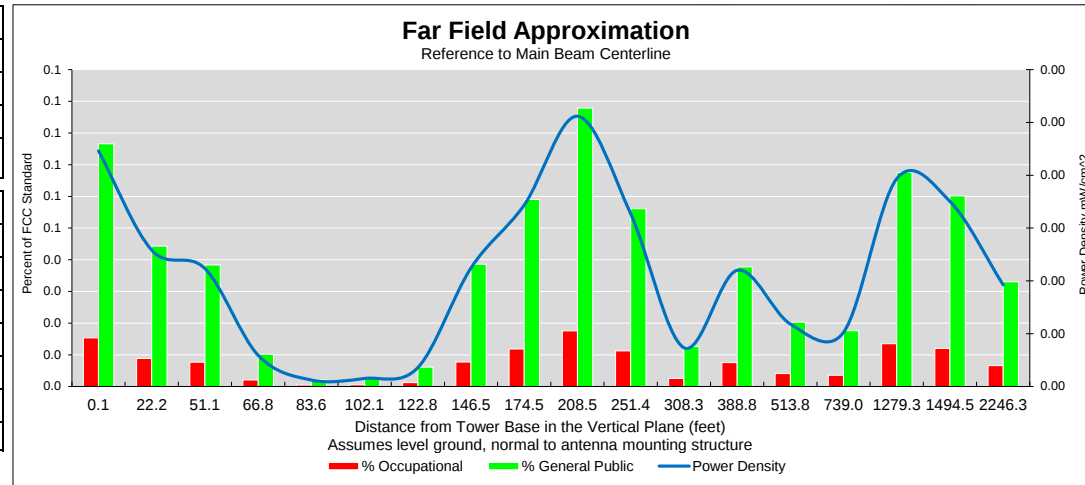
Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	157.0	158.6	165.1	170.6	177.9	187.3	199.3	214.8	234.7	261.0	296.4	346.0	419.3	537.3	755.5	1288.9	1502.7	2251.8
Distance from Antenna Structure Base in Horizontal plane	0.1	22.2	51.1	66.8	83.6	102.1	122.8	146.5	174.5	208.5	251.4	308.3	388.8	513.8	739.0	1279.3	1494.5	2246.3
Angle from Main Beam (reference to horizontal plane)	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
dB down from centerline (referenced to centerline)	36.87	30.76	24.14	20.73	17.87	16.63	17.66	20.19	19.43	20.49	22.83	14.68	11.7	13.75	8.22	1.83	1.14	0.26
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of Occupational Standard	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.01	0.02	0.01	0.01	0.02	0.01	0.01
Percent of General Population Standard	0.00	0.01	0.03	0.06	0.10	0.12	0.09	0.04	0.04	0.03	0.01	0.06	0.08	0.03	0.05	0.08	0.07	0.04

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types



Location:	Lisbon CT
Site #:	2-0014
Date:	06/14/21
Name:	Wesley Stevens
File Name:	Lisbon CT - FF Power
Antenna Type:	SBNHH-1D65B
Operating Freq. (MHz):	874
Antenna Height (ft):	160.0
Antenna Gain (dBi):	14.5
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
Tx Power (W):	40.0
No. of Channels:	4



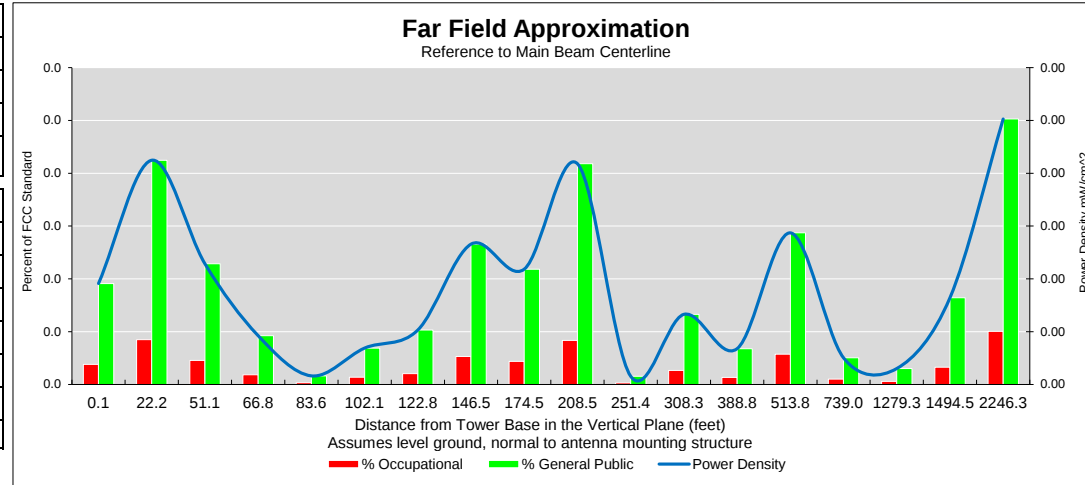
Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	157.0	158.6	165.1	170.6	177.9	187.3	199.3	214.8	234.7	261.0	296.4	346.0	419.3	537.3	755.5	1288.9	1502.7	2251.8
Distance from Antenna Structure Base in Horizontal plane	0.1	22.2	51.1	66.8	83.6	102.1	122.8	146.5	174.5	208.5	251.4	308.3	388.8	513.8	739.0	1279.3	1494.5	2246.3
Angle from Main Beam (reference to horizontal plane)	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
dB down from centerline (referenced to centerline)	19.58	21.87	22.15	27.64	34.13	32.72	28.47	19.84	17.22	14.57	15.41	20.55	14.12	14.66	12.32	1.84	1.01	0.1
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm^2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of Occupational Standard	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01
Percent of General Population Standard	0.08	0.04	0.04	0.01	0.00	0.00	0.01	0.04	0.06	0.09	0.06	0.01	0.04	0.02	0.02	0.07	0.06	0.03

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types



Location:	Lisbon CT
Site #:	2-0014
Date:	06/14/21
Name:	Wesley Stevens
File Name:	Lisbon CT - FF Power
Antenna Type:	SBNHH-1D65B
Operating Freq. (MHz):	1978
Antenna Height (ft):	160.0
Antenna Gain (dBi):	18.4
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
Tx Power (W):	40.0
No. of Channels:	4



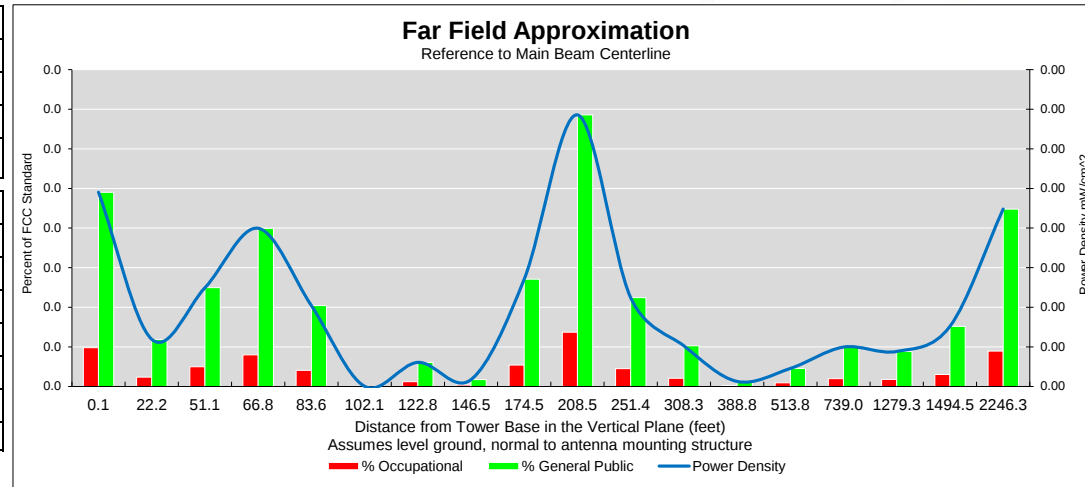
Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	157.0	158.6	165.1	170.6	177.9	187.3	199.3	214.8	234.7	261.0	296.4	346.0	419.3	537.3	755.5	1288.9	1502.7	2251.8
Distance from Antenna Structure Base in Horizontal plane	0.1	22.2	51.1	66.8	83.6	102.1	122.8	146.5	174.5	208.5	251.4	308.3	388.8	513.8	739.0	1279.3	1494.5	2246.3
Angle from Main Beam (reference to horizontal plane)	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
dB down from centerline (referenced to centerline)	30.1	26.55	28.89	32.54	39.71	33	30.71	25.95	26.03	22.29	35.46	24.82	26.07	17.65	22.24	19.83	11.14	2.77
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of Occupational Standard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Percent of General Population Standard	0.01	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.03

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types



Location:	Lisbon CT
Site #:	2-0014
Date:	06/14/21
Name:	Wesley Stevens
File Name:	Lisbon CT - FF Power
Antenna Type:	SBNHH-1D65B
Operating Freq. (MHz):	2120
Antenna Height (ft):	160.0
Antenna Gain (dBi):	18.3
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
Tx Power (W):	40.0
No. of Channels:	4



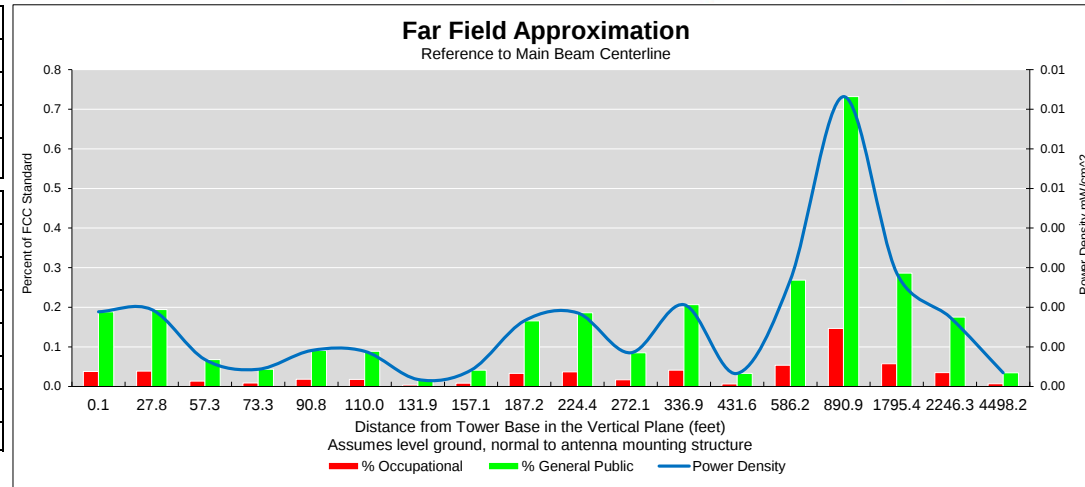
Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	157.0	158.6	165.1	170.6	177.9	187.3	199.3	214.8	234.7	261.0	296.4	346.0	419.3	537.3	755.5	1288.9	1502.7	2251.8
Distance from Antenna Structure Base in Horizontal plane	0.1	22.2	51.1	66.8	83.6	102.1	122.8	146.5	174.5	208.5	251.4	308.3	388.8	513.8	739.0	1279.3	1494.5	2246.3
Angle from Main Beam (reference to horizontal plane)	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
dB down from centerline (referenced to centerline)	25.93	31.99	28.43	26.1	28.65	54.58	32.92	37.71	25.01	20.06	23.81	25.86	33.25	25.57	19.21	15.08	11.4	3.19
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of Occupational Standard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Percent of General Population Standard	0.02	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.02

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types



Location:	Lisbon CT
Site #:	2-0014
Date:	06/14/21
Name:	Wesley Stevens
File Name:	Lisbon CT - FF Power
Antenna Type:	VZ-MT6407-77A
Operating Freq. (MHz):	3730
Antenna Height (ft):	160.0
Antenna Gain (dBi):	25.5
Downtilt (degrees):	0.0
Feedline Loss (dB):	0.0
Tx Power (W):	30.2
No. of Channels:	4



Calc Angle	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
Solve for r, dx to antenna	157.0	159.4	167.1	173.3	181.3	191.7	205.0	222.1	244.4	273.8	314.1	371.7	459.3	606.9	904.6	1802.3	2251.8	4500.9
Distance from Antenna Structure Base in Horizontal plane	0.1	27.8	57.3	73.3	90.8	110.0	131.9	157.1	187.2	224.4	272.1	336.9	431.6	586.2	890.9	1795.4	2246.3	4498.2
Angle from Main Beam (reference to horizontal plane)	90.0	80.0	70.0	65.0	60.0	55.0	50.0	45.0	40.0	35.0	30.0	25.0	20.0	15.0	10.0	5.0	4.0	2.0
dB down from centerline (referenced to centerline)	23.06	22.8	26.95	28.58	24.98	24.59	31	26.65	19.78	18.29	20.49	15.18	21.32	9.78	1.96	0.05	0.25	1.29
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Percent of Occupational Standard	0.04	0.04	0.01	0.01	0.02	0.02	0.00	0.01	0.03	0.04	0.02	0.04	0.01	0.05	0.15	0.06	0.04	0.01
Percent of General Population Standard	0.19	0.19	0.07	0.04	0.09	0.09	0.02	0.04	0.17	0.19	0.09	0.21	0.03	0.27	0.73	0.29	0.18	0.03

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 195 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT00167-S

Customer Site Name: Lisbon

Carrier Name: Verizon (App#: 150918, V1)

Carrier Site ID / Name: 468244 / LISBON_CT

Site Location: 26 Mell Road

Lisbon, Connecticut

New London County

Latitude: 41.591033

Longitude: -72.016960

Analysis Result:

Max Structural Usage: 90.5% [Pass]

Max Foundation Usage: 42.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A



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 195 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT00167-S

Customer Site Name: Lisbon

Carrier Name: Verizon (App#: 150918, V1)

Carrier Site ID / Name: 468244 / LISBON_CT

Site Location: 26 Mell Road

Lisbon, Connecticut

New London County

Latitude: 41.591033

Longitude: -72.016960

Analysis Result:

Max Structural Usage: 90.5% [Pass]

Max Foundation Usage: 42.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 195 ft Nudd Corporation Monopole 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	Fred A. Nudd Corporation Project #6531, dated February 4, 1999. Semaan Engineering solutions site #CT00167S Modification package, dated May 7, 2002.
Foundation Drawing	Fred A. Nudd Corporation Project #6531, dated February 4, 1999.
Geotechnical Report	Jaworski Geotech Inc., project #C98343G, dated August 5, 1998.
Modification Drawings	N/A
Mount Analysis	N/A

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using **TESPoles**, 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:	124.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.19$, $S_1 = 0.054$

This structural analysis is based upon the tower being classified as a Risk Category 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
1	195.0	3	Ericsson - AIR6449 B41 - Panel	Site Pro RMQP-4096-HK	(6) 1 5/8" (6) 1.9" Fiber	T-Mobile
2		3	RFS - APXVAALL24-43-U-NA20 - Panel			
3		3	RFS - APX16DWV-16DWVS-E-A20 - Panel			
4		3	Ericsson KRY 112 144/1			
5		3	Ericsson 4449 B71 + B85			
6		3	Ericsson 4424 B25			
7		3	Ericsson 4415 B66A			
7	173.0	3	CommScope - DT465B-2XR - Panel	(3) Sector Frame (1) Tie-Back Components: (3) relocate pipe stiff-arms (1) Handrail Components-V-Brace Kit SitePro1 Park PRK-SFR-K-L (1) Handrail Components-(3) Pipe2.O STD (2.375" O.D.) x 7' +/- Horizontal Rail; Sitepro1 SCX x-K cross-over plates [(3) total rails; (6) SCX]	(4) 1-1/4" Fiber	Sprint Nextel
8		3	RFS - APXVSP18-C-A20 - Panel			
9		4	RFS ACU-A20-N RET			
10		3	ALU 1900 MHz RRH			
11		6	ALU 800 MHz RRH			
12		3	ALU 800 MHz Filter			
13		3	ALU TD-RRH8x20-25 RRU's			
-	159.0	6	Commscope - SBNHH-1D65B - Panel	Low Profile Platform	(10) 1 5/8" (2) 1 5/8" Hybrids	Verizon
-		3	Antel - BXA-70063-6CF-2 - Panel			
-		3	Antel - BXA-70080-4BF - Panel			
-		3	Alcatel Lucent B66 RRH4X45 AWS RRH			
-		3	Alcatel Lucent B25 RRH4X30 RRH			
-		6	RFs FD9R6004/2CL-3CL Diplexer			
-		2	Rfs Celwave DB-T1-6Z-8AB-0Z ODU			

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
14	159.0	3	Samsung VZS01 - Panel	Low Profile Platform	(10) 1 5/8" (2) 1 5/8" Hybrid (1) 1/2"	Verizon
15		3	Antel BXA-70080-4BF- Panel			
16		6	Commscope SBNHH-1D65B- Panel			
17		3	Samsung B2/B66A RRH-BR049			
18		3	Samsung B5/B13 RRH-BR04C			
19		2	Rfs Celwave DB-T1-6Z-8AB-OZ-OVP			
20		1	Lucent KS24019-L112A-GPS			

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:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	75.7%	90.5%	83.4%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Original Design Reactions	6014.0	46.0
Analysis Reactions	5541.1	41.8
Factored Reactions*	8118.9	62.1
% of Design Reactions	68.2%	67.3%

* Per section 15.6.2 of the TIA-222-H standard, factored reactions were obtained by multiplying a 1.35 factor to the original design 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.

Service Load 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 1.4920 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

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. 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.
3. 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 **TES**. 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, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** 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, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. 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.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 71.47% at 140.0ft

Structure: CT00167-S-SBA
Site Name: Lisbon
Height: 195.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-H
Exposure: C
Gh: 1.1

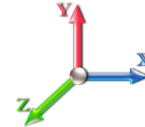
5/19/2021

Page: 1



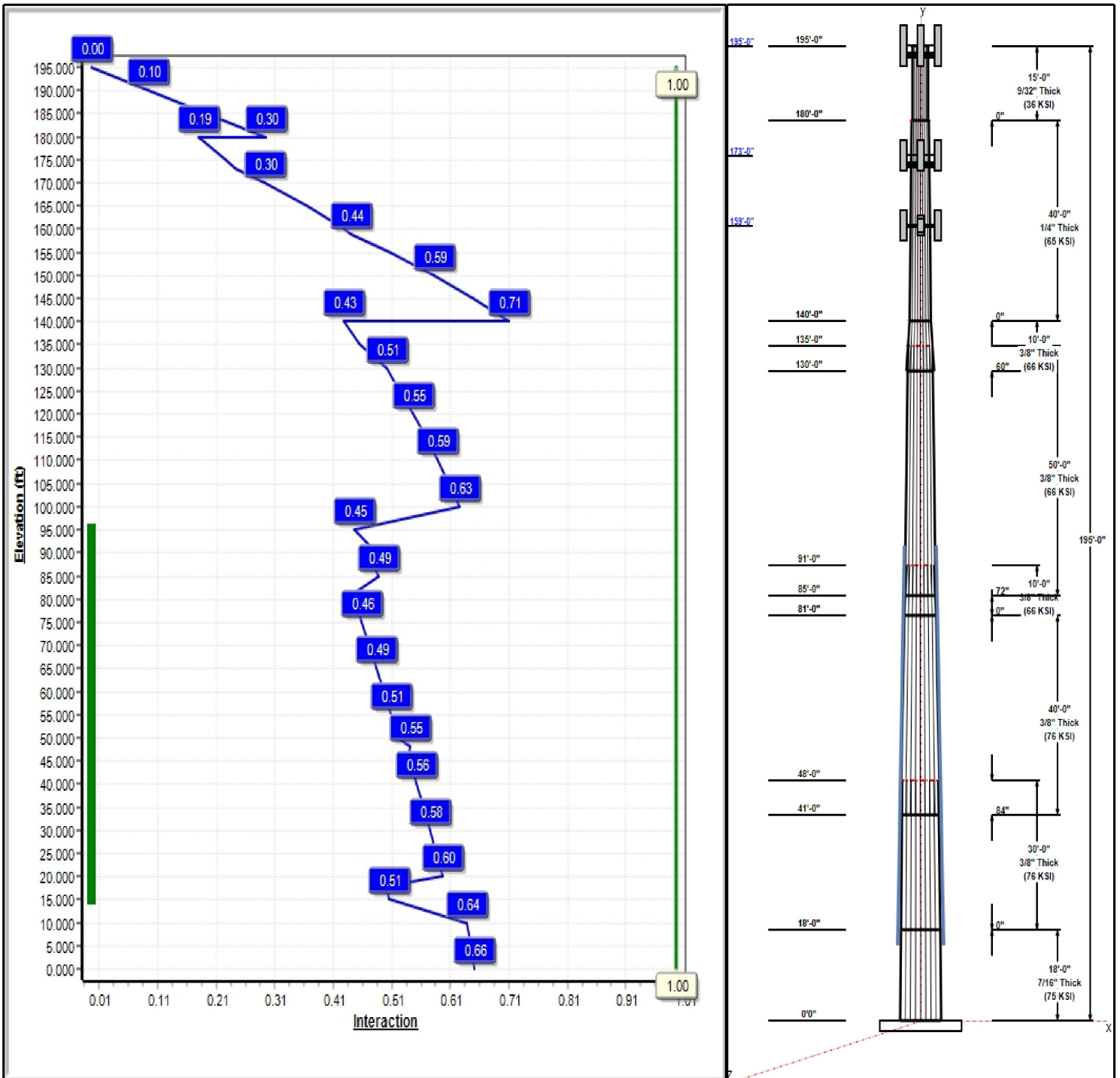
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 124 mph Wind



Iterations: 25

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Structure: CT00167-S-SBA

Type: Custom
Site Name: Lisbon
Height: 195.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.23750

5/19/2021

Page: 2



Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	18.00	60.23	64.50	0.438		0.23750	75
2	30.00	53.10	60.23	0.375	Butt	0.23750	76
3	40.00	46.01	55.51	0.375	Slip	0.23750	76
4	10.00	43.64	46.01	0.375	Butt	0.23750	66
5	50.00	33.94	45.81	0.375	Slip	0.23750	66
6	10.00	33.50	35.88	0.375	Slip	0.23750	66
7	40.00	24.00	33.50	0.250	Butt	0.23750	65
8	15.00	24.00	24.00	0.281	Butt	0.00000	36

Discrete Appurtenances

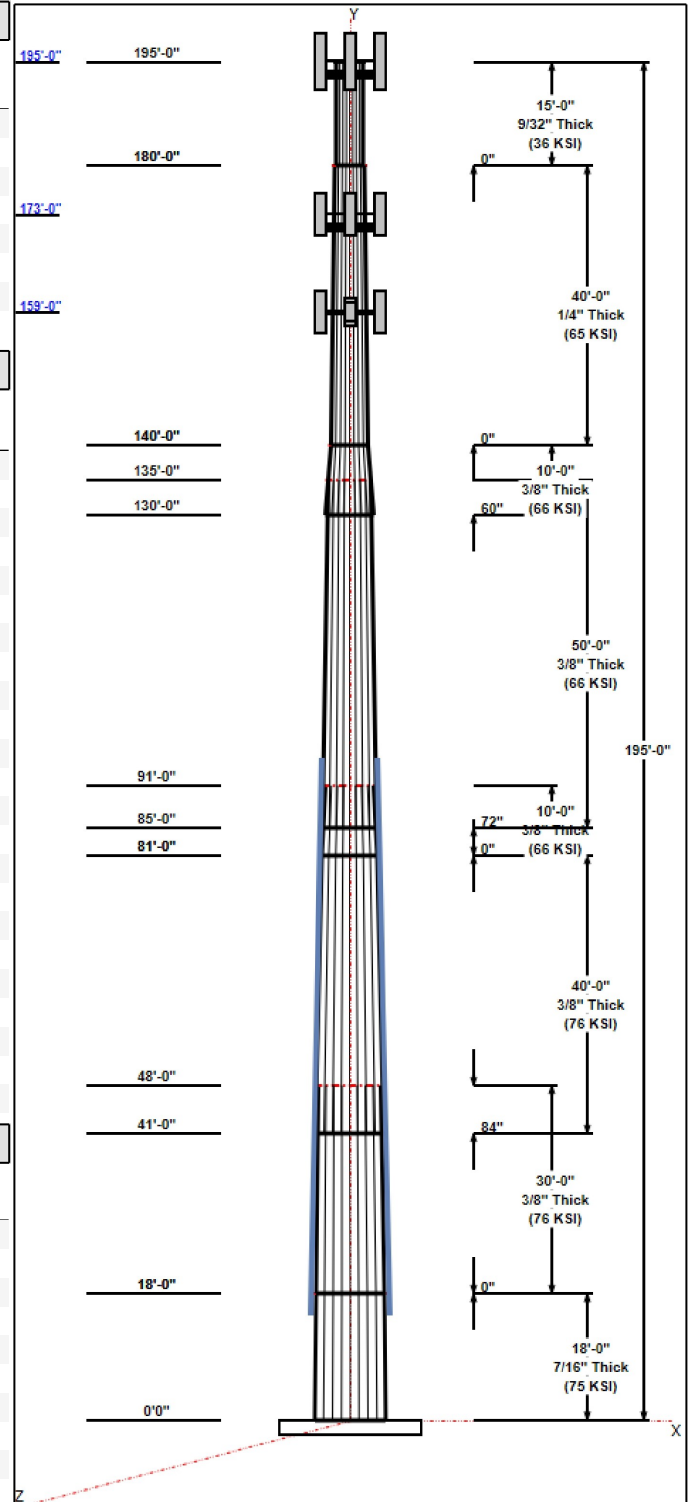
Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
195.00	195.00	3	AIR6449 B41	T-Mobile
195.00	195.00	3	APXVAALL24-43-U-NA20	T-Mobile
195.00	195.00	3	APX16DWV-16DWVS-E-A	T-Mobile
195.00	195.00	3	Ericsson KRY 112 144/1	T-Mobile
195.00	195.00	3	Ericsson 4449 B71 + B85	T-Mobile
195.00	195.00	3	Ericsson 4424 B25	T-Mobile
195.00	195.00	3	Ericsson 4415 B66A	T-Mobile
195.00	195.00	1	RMQP-4096-HK	T-Mobile
173.00	173.00	3	Sector Frame-Pipe/Rod	Sprint Nextel
173.00	173.00	3	APXVSP18-C-A20	Sprint Nextel
173.00	173.00	3	ALU 1900 MHz RRH	Sprint Nextel
173.00	173.00	6	ALU 800 MHz RRH	Sprint Nextel
173.00	173.00	3	ALU 800 MHz Filter	Sprint Nextel
173.00	173.00	4	RFS ACU-A20-N RET	Sprint Nextel
173.00	173.00	3	DT465B-2XR	Sprint Nextel
173.00	173.00	3	ALU TD-RRH8x20-25	Sprint Nextel
159.00	159.00	3	Samsung VZS01	Verizon
159.00	159.00	3	Samsung B2/B66A	Verizon
159.00	159.00	3	Samsung B5/B13	Verizon
159.00	159.00	1	Low Profile Platform-flat	Verizon
159.00	159.00	6	SBNHH-1D65B	Verizon
159.00	159.00	3	BXA-70080-4BF	Verizon
159.00	159.00	2	Rfs Celwave	Verizon

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	195.00	Inside	1 5/8" Coax	T-Mobile
0.00	195.00	Inside	1.9" Fiber	T-Mobile
0.00	195.00	Outside	Safety Cable	
0.00	195.00	Outside	Step bolts (ladder)	
0.00	173.00	Inside	1-1/4" Fiber	Sprint Nextel
0.00	159.00	Inside	1 5/8" Coax	Verizon
0.00	159.00	Inside	1 5/8" Hybrid	Verizon
0.00	159.00	Inside	1/2" Coax	Verizon
90.00	105.00	Outside	Reinforcing channels	
60.00	90.00	Outside	Reinforcing channels	
15.00	60.00	Outside	Reinforcing channels	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
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Structure: CT00167-S-SBA

Type: Custom	Base Shape: 18 Sided	5/19/2021
Site Name: Lisbon	Taper: 0.00000	
Height: 195.00 (ft)		
Base Elev: 0.00 (ft)		Page: 3



26	2.00" A687	105.0	Radial
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Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.7500	52.0	50.0	Round

Reactions

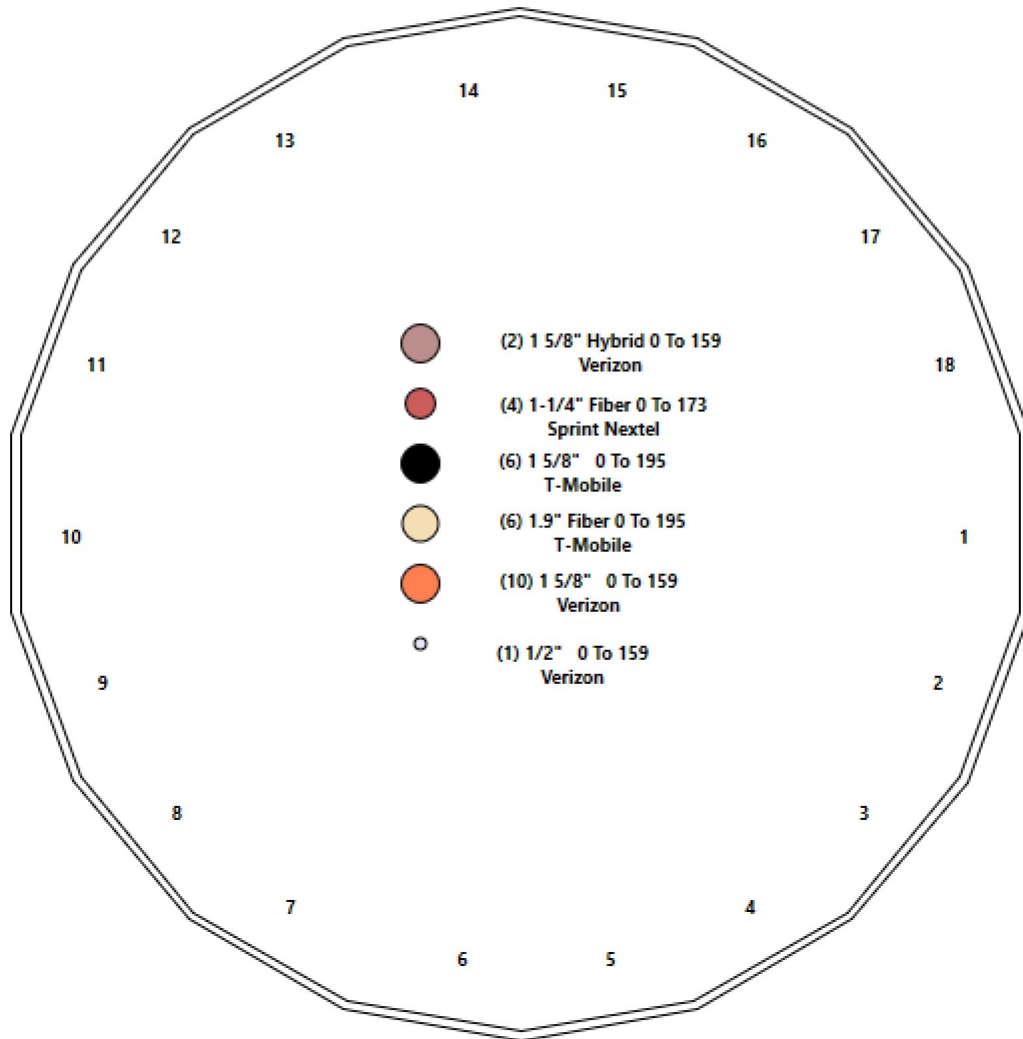
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 124 mph Wind	5540.0	41.8	60.3
0.9D + 1.0W 124 mph Wind	5476.0	41.8	45.2
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1363.6	10.5	79.9
1.2D + 1.0Ev + 1.0Eh	139.3	0.8	62.4
0.9D + 1.0Ev + 1.0Eh	138.0	0.8	47.3
1.0D + 1.0W 60 mph Wind	1153.5	8.7	50.3

Structure: CT00167-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Lisbon
Height: 195.00 (ft)

5/19/2021

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Shaft Properties

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	18.000	0.4375	75		0.00	5,267
2	18	30.000	0.3750	76	Flange	0.00	6,839
3	18	40.000	0.3750	76	Slip	84.00	8,163
4	18	10.000	0.3750	66	Flange	0.00	1,800
5	18	50.000	0.3750	66	Slip	72.00	7,999
6	18	10.000	0.3750	66	Slip	60.00	1,390
7	18	40.000	0.2500	65	Flange	0.00	3,078
8	R	15.000	0.2813	36	Flange	0.00	1,081
Total Shaft Weight:							35,616

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	64.50	0.00	88.96	46124.76	24.59	147.43	60.23	18.00	83.02	37493.3	22.86	137.6	0.237500
2	60.23	18.00	71.23	32238.00	26.91	160.60	53.10	48.00	62.75	22040.7	23.56	141.6	0.237500
3	55.51	41.00	65.63	25206.75	24.69	148.03	46.01	81.00	54.32	14293.5	20.22	122.7	0.237500
4	46.01	81.00	54.32	14293.59	20.22	122.70	43.64	91.00	51.49	12176.1	19.11	116.3	0.237500
5	45.81	85.00	54.08	14106.49	20.13	122.17	33.94	135.00	39.95	5685.11	14.55	90.50	0.237500
6	35.88	130.0	42.25	6727.61	15.46	95.67	33.50	140.00	39.43	5465.67	14.34	89.33	0.237500
7	33.50	140.0	26.38	3685.19	22.22	134.00	24.00	180.00	18.84	1343.00	15.52	96.00	0.237500
8	24.00	180.0	21.18	1505.17	13.63	85.32	24.00	195.00	21.18	1505.17	13.63	85.32	0.000000

Additional Steel

							Intermediate Connectors		Termination Connectors			
Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Spacing (in)	Description	Spacing (in)	Description	Lower Qty	Upper Qty
15.00	95.00	6	PLT C6x10.5 (no hole)	65	80	1.00	5/8" Hollo Bolt	0.00	AJM20&sleeve	24.00	3	3

Load Summary

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	195.00	AIR6449 B41	3	103.00	5.65	0.71	196.84	6.301	0.71	0.00	0.00
2	195.00	APXVAALL24-43-U-NA20	3	99.00	20.24	0.73	380.26	21.525	0.73	0.00	0.00
3	195.00	APX16DWV-16DWVS-E-A20	3	40.70	6.61	0.62	120.81	8.101	0.62	0.00	0.00
4	195.00	Ericsson KRY 112 144/1	3	11.00	0.41	0.70	18.38	0.735	0.70	0.00	0.00
5	195.00	Ericsson 4449 B71 + B85	3	73.20	1.97	0.67	112.72	2.360	0.67	0.00	0.00
6	195.00	Ericsson 4424 B25	3	88.00	2.05	0.67	142.98	2.446	0.67	0.00	0.00
7	195.00	Ericsson 4415 B66A	3	49.60	1.64	0.67	85.27	2.005	0.67	0.00	0.00
8	195.00	RMQP-4096-HK	1	2645.00	51.70	1.00	4540.52	77.882	1.00	0.00	0.00
9	173.00	Sector Frame-Pipe/Rod	3	700.00	26.00	0.75	1070.11	34.837	0.75	0.00	0.00
10	173.00	APXVSPP18-C-A20	3	57.00	8.02	0.83	173.89	9.909	0.83	0.00	0.00
11	173.00	ALU 1900 MHz RRH	3	44.00	3.80	0.50	117.82	4.740	0.50	0.00	0.00
12	173.00	ALU 800 MHz RRH	6	53.00	2.49	0.50	103.02	3.264	0.50	0.00	0.00
13	173.00	ALU 800 MHz Filter	3	10.00	0.42	0.50	23.30	0.628	0.50	0.00	0.00
14	173.00	RFS ACU-A20-N RET	4	1.00	0.14	0.50	3.91	0.341	0.50	0.00	0.00
15	173.00	DT465B-2XR	3	58.00	9.10	0.83	205.03	9.988	0.83	0.00	0.00
16	173.00	ALU TD-RRH8x20-25 RRUs	3	70.00	4.05	0.69	139.75	4.585	0.69	0.00	0.00
17	159.00	Samsung VZS01	3	87.10	4.30	0.69	156.36	4.882	0.69	0.00	0.00
18	159.00	Samsung B2/B66A RRH-BR049	3	84.40	1.87	0.67	131.74	2.243	0.67	0.00	0.00
19	159.00	Samsung B5/B13 RRH-BR04C	3	70.30	1.87	0.67	112.98	2.243	0.67	0.00	0.00
20	159.00	Low Profile Platform-flat	1	1200.00	25.00	1.00	1902.17	39.043	1.00	0.00	0.00
21	159.00	SBNHH-1D65B	6	40.00	8.16	0.83	167.72	9.011	0.83	0.00	0.00
22	159.00	BXA-70080-4BF	3	12.00	3.56	0.88	71.25	4.798	0.89	0.00	0.00
23	159.00	Rfs Celwave DB-T1-6Z-8AB-0Z ODU	2	18.90	4.80	0.71	109.71	5.373	0.71	0.00	0.00
Totals:			71	9,416.70			18,080.58				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	195.00	(6) 1 5/8" Coax	0.00	Inside
0.00	195.00	(6) 1.9" Fiber	0.00	Inside
0.00	195.00	(1) Safety Cable	0.00	Outside
0.00	195.00	(1) Step bolts (ladder)	0.00	Outside
0.00	173.00	(4) 1-1/4" Fiber	0.00	Inside
0.00	159.00	(10) 1 5/8" Coax	0.00	Inside
0.00	159.00	(2) 1 5/8" Hybrid	0.00	Inside
0.00	159.00	(1) 1/2" Coax	0.00	Inside
90.00	105.00	(2) Reinforcing channels	0.00	Outside
60.00	90.00	(2) Reinforcing channels	2.00	Outside
15.00	60.00	(2) Reinforcing channels	2.00	Outside

Shaft Section Properties

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00		0.4375	64.500	88.956	46124.8	24.59	147.43	75	81	0.0				
5.00		0.4375	63.313	87.307	43607.0	24.11	144.71	75	82	1499.5				
10.00		0.4375	62.125	85.658	41182.6	23.63	142.00	75	83	1471.4				
15.00	RB1	0.4375	60.938	84.009	38849.8	23.15	139.29	75	83	1443.3	18.54	9762.2	9762.2	246.0
18.00	Top - Section 1	0.4375	60.225	83.019	37493.3	22.86	137.66	75	84	852.5	18.54	9549.1	9549.1	147.6
18.00	Bot - Section 2	0.3750	60.225	71.234	32238.0	26.67	160.60	76	79					
20.00		0.3750	59.750	70.669	31476.5	26.68	159.33	76	79	482.9	18.54	9408.4	9408.4	98.4
25.00		0.3750	58.563	69.255	29625.4	26.13	156.17	76	80	1190.3	18.54	9061.0	9061.0	246.0
30.00		0.3750	57.375	67.842	27848.4	25.57	153.00	76	81	1166.3	18.54	8720.2	8720.2	246.0
35.00		0.3750	56.188	66.428	26143.9	25.01	149.83	76	81	1142.2	18.54	8385.9	8385.9	246.0
40.00		0.3750	55.000	65.015	24510.4	24.45	146.67	76	82	1118.2	18.54	8058.2	8058.2	246.0
41.00	Bot - Section 3	0.3750	54.763	64.732	24192.1	24.34	146.03	76	82	220.8	18.54	7993.5	7993.5	49.2
45.00		0.3750	53.813	63.602	22946.4	23.89	143.50	76	83	1758.9	18.54	7939.1	7939.1	196.8
48.00	Top - Section 2	0.3750	53.850	63.646	22994.7	23.91	143.60	76	83	1299.0	18.54	7747.1	7747.1	147.6
50.00		0.3750	53.375	63.081	22387.4	23.69	142.33	76	83	431.2	18.54	7620.3	7620.3	98.4
55.00		0.3750	52.188	61.668	20916.0	23.13	139.17	76	84	1061.2	18.54	7308.1	7308.1	246.0
60.00		0.3750	51.000	60.254	19510.6	22.57	136.00	76	85	1037.2	18.54	7002.4	7002.4	246.0
65.00		0.3750	49.813	58.841	18169.6	22.01	132.83	76	86	1013.1	18.54	6703.2	6703.2	246.0
70.00		0.3750	48.625	57.427	16891.5	21.45	129.67	76	87	989.1	18.54	6410.6	6410.6	246.0
75.00		0.3750	47.438	56.014	15674.7	20.89	126.50	76	87	965.0	18.54	6124.4	6124.4	246.0
80.00		0.3750	46.250	54.601	14517.9	20.34	123.33	76	88	941.0	18.54	5844.9	5844.9	246.0
81.00	Top - Section 3	0.3750	46.013	54.318	14293.6	20.22	122.70	76	88	185.3	18.54	5789.7	5789.7	49.2
81.00	Bot - Section 4	0.3750	46.013	54.318	14293.6	20.22	122.70	66	79					
85.00	Bot - Section 5	0.3750	45.063	53.187	13419.4	19.78	120.17	66	79	731.6	18.54	5571.8	5571.8	196.8
90.00		0.3750	43.875	51.774	12377.8	19.22	117.00	66	80	1801.0	18.54	5472.9	5472.9	246.0
91.00	Top - Section 4	0.3750	44.388	52.384	12820.5	19.46	118.37	66	80	354.4	18.54	5419.6	5419.6	49.2
95.00	RT1	0.3750	43.438	51.253	12008.1	19.01	115.83	66	80	705.3	18.54	5208.8	5208.8	196.8
100.00		0.3750	42.250	49.840	11041.8	18.46	112.67	66	81	860.0				
105.00		0.3750	41.063	48.427	10128.8	17.90	109.50	66	81	835.9				
110.00		0.3750	39.875	47.013	9267.6	17.34	106.33	66	82	811.9				
115.00		0.3750	38.688	45.600	8456.6	16.78	103.17	66	83	787.9				
120.00		0.3750	37.500	44.186	7694.4	16.22	100.00	66	83	763.8				
125.00		0.3750	36.313	42.773	6979.4	15.66	96.83	66	84	739.8				
130.00	Bot - Section 6	0.3750	35.125	41.360	6310.2	15.11	93.67	66	84	715.7				
135.00	Top - Section 5	0.3750	34.688	40.839	6074.8	14.90	92.50	66	84	1398.5				
140.00	Top - Section 6	0.3750	33.500	39.426	5465.7	14.34	89.33	66	84	682.8				
140.00	Bot - Section 7	0.2500	33.500	26.383	3685.2	21.51	134.00	65	75					
145.00		0.2500	32.313	25.441	3304.3	21.38	129.25	65	76	440.9				
150.00		0.2500	31.125	24.498	2950.6	20.54	124.50	65	77	424.8				
155.00		0.2500	29.938	23.556	2623.0	19.70	119.75	65	78	408.8				
159.00		0.2500	28.988	22.802	2379.2	19.03	115.95	65	79	315.5				
160.00		0.2500	28.750	22.614	2320.7	18.87	115.00	65	79	77.3				
165.00		0.2500	27.563	21.672	2042.5	18.03	110.25	65	80	376.7				
170.00		0.2500	26.375	20.729	1787.5	17.19	105.50	65	81	360.7				
173.00		0.2500	25.663	20.164	1645.2	16.69	102.65	65	82	208.7				
175.00		0.2500	25.188	19.787	1554.7	16.35	100.75	65	82	135.9				
180.00	Top - Section 7	0.2500	24.000	18.845	1343.0	15.52	96.00	65	83	328.6				
180.00	Bot - Section 8	0.2813	24.000	21.176	1505.2	13.79	85.32	36	46					
185.00		0.2813	24.000	21.176	1505.2	13.63	85.32	36	46	360.3				
190.00		0.2813	24.000	21.176	1505.2	13.63	85.32	36	46	360.3				

Increment Length: 5 (ft)

											Additional Reinforcing			
Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
195.00		0.2813	24.000	21.176	1505.2	13.63	85.32	36	46	360.3				
Total Weight										35616.0				4182.0

Wind Loading - Shaft

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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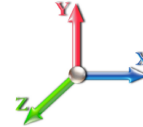


Load Case: 1.2D + 1.0W 124 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	31.479	34.63	620.95	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	31.479	34.63	609.52	0.730	0.000	5.00	27.038	19.74	683.5	0.0	1799.3
10.00		1.00	0.85	31.479	34.63	598.09	0.730	0.000	5.00	26.536	19.37	670.8	0.0	1765.7
15.00	RB1	1.00	0.85	31.479	34.63	586.66	0.730	0.000	5.00	26.034	19.00	658.1	0.0	1732.0
18.00	Top - Section 1	1.00	0.88	32.668	35.93	590.64	0.730	0.000	3.00	15.379	11.23	403.4	0.0	1023.0
20.00		1.00	0.90	33.401	36.74	592.52	0.730	0.000	2.00	10.152	7.41	272.3	0.0	579.4
25.00		1.00	0.95	35.007	38.51	594.55	0.730	0.000	5.00	25.029	18.27	703.6	0.0	1428.4
30.00		1.00	0.98	36.377	40.01	593.78	0.730	0.000	5.00	24.526	17.90	716.4	0.0	1399.5
35.00		1.00	1.01	37.577	41.33	591.00	0.730	0.000	5.00	24.024	17.54	724.9	0.0	1370.7
40.00		1.00	1.04	38.648	42.51	586.70	0.730	0.000	5.00	23.521	17.17	730.0	0.0	1341.8
41.00	Bot - Section 3	1.00	1.05	38.850	42.73	585.68	0.730	0.000	1.00	4.644	3.39	144.9	0.0	264.9
45.00		1.00	1.07	39.619	43.58	581.19	0.730	0.000	4.00	18.629	13.60	592.7	0.0	2110.7
48.00	Top - Section 2	1.00	1.08	40.161	44.18	577.41	0.730	0.000	3.00	13.761	10.05	443.8	0.0	1558.8
50.00		1.00	1.09	40.507	44.56	582.90	0.730	0.000	2.00	9.073	6.62	295.1	0.0	517.5
55.00		1.00	1.12	41.328	45.46	575.67	0.730	0.000	5.00	22.331	16.30	741.1	0.0	1273.5
60.00		1.00	1.14	42.092	46.30	567.75	0.730	0.000	5.00	21.829	15.94	737.8	0.0	1244.6
65.00		1.00	1.16	42.808	47.09	559.22	0.730	0.000	5.00	21.327	15.57	733.1	0.0	1215.8
70.00		1.00	1.17	43.481	47.83	550.17	0.730	0.000	5.00	20.824	15.20	727.1	0.0	1186.9
75.00		1.00	1.19	44.117	48.53	540.64	0.730	0.000	5.00	20.322	14.83	719.9	0.0	1158.0
80.00		1.00	1.21	44.721	49.19	530.70	0.730	0.000	5.00	19.819	14.47	711.7	0.0	1129.2
81.00	Top - Section 3	1.00	1.21	44.838	49.32	528.67	0.730	0.000	1.00	3.904	2.85	140.5	0.0	222.4
85.00	Bot - Section 5	1.00	1.22	45.295	49.82	520.39	0.730	0.000	4.00	15.413	11.25	560.6	0.0	878.0
90.00		1.00	1.24	45.843	50.43	509.73	0.730	0.000	5.00	19.132	13.97	704.3	0.0	2161.2
91.00	Top - Section 4	1.00	1.24	45.950	50.55	507.56	0.730	0.000	1.00	3.766	2.75	139.0	0.0	425.3
95.00	RT1	1.00	1.25	46.368	51.00	507.53	0.730	0.000	4.00	14.863	10.85	553.4	0.0	846.4
100.00		1.00	1.27	46.872	51.56	496.33	0.730	0.000	5.00	18.127	13.23	682.3	0.0	1032.0
105.00		1.00	1.28	47.355	52.09	484.86	0.730	0.000	5.00	17.625	12.87	670.2	0.0	1003.1
110.00		1.00	1.29	47.822	52.60	473.15	0.730	0.000	5.00	17.122	12.50	657.5	0.0	974.3
115.00		1.00	1.30	48.271	53.10	461.21	0.730	0.000	5.00	16.620	12.13	644.2	0.0	945.4
120.00		1.00	1.32	48.706	53.58	449.06	0.730	0.000	5.00	16.117	11.77	630.4	0.0	916.6
125.00		1.00	1.33	49.126	54.04	436.71	0.730	0.000	5.00	15.615	11.40	616.0	0.0	887.7
130.00	Bot - Section 6	1.00	1.34	49.533	54.49	424.18	0.730	0.000	5.00	15.112	11.03	601.1	0.0	858.9
135.00	Top - Section 5	1.00	1.35	49.928	54.92	411.47	0.730	0.000	5.00	14.927	10.90	598.5	0.0	1678.2
140.00	Top - Section 6	1.00	1.36	50.312	55.34	407.72	0.730	0.000	5.00	14.425	10.53	582.8	0.0	819.4
145.00		1.00	1.37	50.685	55.75	394.73	0.730	0.000	5.00	13.922	10.16	566.6	0.0	529.0
150.00		1.00	1.38	51.048	56.15	381.58	0.730	0.000	5.00	13.420	9.80	550.1	0.0	509.8
155.00		1.00	1.39	51.402	56.54	368.29	0.730	0.000	5.00	12.918	9.43	533.2	0.0	490.6
159.00	Appurtenance(s)	1.00	1.40	51.678	56.85	357.56	0.730	0.000	4.00	9.972	7.28	413.8	0.0	378.6
160.00		1.00	1.40	51.747	56.92	354.87	0.730	0.000	1.00	2.443	1.78	101.5	0.0	92.7
165.00		1.00	1.41	52.083	57.29	341.31	0.730	0.000	5.00	11.913	8.70	498.2	0.0	452.1
170.00		1.00	1.42	52.411	57.65	327.64	0.730	0.000	5.00	11.410	8.33	480.2	0.0	432.8
173.00	Appurtenance(s)	1.00	1.42	52.605	57.87	319.37	0.730	0.000	3.00	6.605	4.82	279.0	0.0	250.5
175.00		1.00	1.42	52.732	58.01	313.84	0.730	0.000	2.00	4.303	3.14	182.2	0.0	163.1
180.00	Top - Section 7	1.00	1.43	53.046	58.35	299.93	0.730	0.000	5.00	10.405	7.60	443.2	0.0	394.4
185.00		1.00	1.44	53.353	58.69	300.80	0.730	0.000	5.00	10.154	7.41	435.0	0.0	432.4
190.00		1.00	1.45	53.653	59.02	301.64	0.730	0.000	5.00	10.154	7.41	437.5	0.0	432.4
195.00	Appurtenance(s)	1.00	1.46	53.947	59.34	302.47	0.730	0.000	5.00	10.154	7.41	439.9	0.0	432.4

Wind Loading - Shaft

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	Struct Class: II
				Page: 10



Totals:	195.00	24,551.3	42,739.2
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Discrete Appurtenance Forces

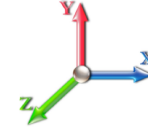
Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 11
	Struct Class: II	



Load Case: 1.2D + 1.0W 124 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	Ericsson KRY 112 144/1	3	53.947	59.342	0.52	0.75	0.65	39.60	0.000	0.000	38.32	0.00	0.00
2	195.00	AIR6449 B41	3	53.947	59.342	0.53	0.75	9.03	370.80	0.000	0.000	535.61	0.00	0.00
3	195.00	APXVAALL24-43-U-NA20	3	53.947	59.342	0.55	0.75	33.24	356.40	0.000	0.000	1972.78	0.00	0.00
4	195.00	APX16DWV-16DWVS-E-A	3	53.947	59.342	0.46	0.75	9.22	146.52	0.000	0.000	547.19	0.00	0.00
5	195.00	RMQP-4096-HK	1	53.947	59.342	1.00	1.00	51.70	3174.00	0.000	0.000	3067.98	0.00	0.00
6	195.00	Ericsson 4449 B71 + B85	3	53.947	59.342	0.50	0.75	2.97	263.52	0.000	0.000	176.23	0.00	0.00
7	195.00	Ericsson 4424 B25	3	53.947	59.342	0.50	0.75	3.09	316.80	0.000	0.000	183.39	0.00	0.00
8	195.00	Ericsson 4415 B66A	3	53.947	59.342	0.50	0.75	2.47	178.56	0.000	0.000	146.71	0.00	0.00
9	173.00	ALU TD-RRH8x20-25	3	52.605	57.865	0.55	0.80	6.71	252.00	0.000	0.000	388.09	0.00	0.00
10	173.00	DT465B-2XR	3	52.605	57.865	0.66	0.80	18.13	208.80	0.000	0.000	1048.93	0.00	0.00
11	173.00	RFS ACU-A20-N RET	4	52.605	57.865	0.40	0.80	0.22	4.80	0.000	0.000	12.96	0.00	0.00
12	173.00	ALU 800 MHz Filter	3	52.605	57.865	0.40	0.80	0.50	36.00	0.000	0.000	29.16	0.00	0.00
13	173.00	ALU 1900 MHz RRH	3	52.605	57.865	0.40	0.80	4.56	158.40	0.000	0.000	263.87	0.00	0.00
14	173.00	APXVSP18-C-A20	3	52.605	57.865	0.66	0.80	15.98	205.20	0.000	0.000	924.44	0.00	0.00
15	173.00	Sector Frame-Pipe/Rod	3	52.605	57.865	0.60	0.80	46.80	2520.00	0.000	0.000	2708.09	0.00	0.00
16	173.00	ALU 800 MHz RRH	6	52.605	57.865	0.40	0.80	5.98	381.60	0.000	0.000	345.80	0.00	0.00
17	159.00	Samsung B5/B13	3	51.678	56.846	0.54	0.80	3.01	253.08	0.000	0.000	170.93	0.00	0.00
18	159.00	Samsung VZS01	3	51.678	56.846	0.55	0.80	7.12	313.56	0.000	0.000	404.79	0.00	0.00
19	159.00	Samsung B2/B66A	3	51.678	56.846	0.54	0.80	3.01	303.84	0.000	0.000	170.93	0.00	0.00
20	159.00	BXA-70080-4BF	3	51.678	56.846	0.70	0.80	7.52	43.20	0.000	0.000	427.41	0.00	0.00
21	159.00	Low Profile Platform-flat	1	51.678	56.846	1.00	1.00	25.00	1440.00	0.000	0.000	1421.15	0.00	0.00
22	159.00	SBNHH-1D65B	6	51.678	56.846	0.66	0.80	32.51	288.00	0.000	0.000	1848.04	0.00	0.00
23	159.00	Rfs Celwave	2	51.678	56.846	0.57	0.80	5.45	45.36	0.000	0.000	309.97	0.00	0.00
Totals:									11,300.04			17,142.79		

Total Applied Force Summary

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

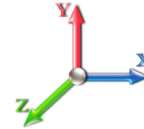


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Load Case: 1.2D + 1.0W 124 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		683.47	1976.66	0.00	0.00
10.00		670.77	1943.00	0.00	0.00
15.00		658.07	1909.33	0.00	0.00
18.00		403.43	1129.44	0.00	0.00
20.00		272.29	650.36	0.00	0.00
25.00		703.58	1605.71	0.00	0.00
30.00		716.43	1576.85	0.00	0.00
35.00		724.91	1547.99	0.00	0.00
40.00		729.98	1519.14	0.00	0.00
41.00		144.88	300.36	0.00	0.00
45.00		592.66	2252.56	0.00	0.00
48.00		443.77	1665.18	0.00	0.00
50.00		295.13	588.40	0.00	0.00
55.00		741.11	1450.79	0.00	0.00
60.00		737.83	1421.94	0.00	0.00
65.00		733.09	1393.08	0.00	0.00
70.00		727.08	1364.22	0.00	0.00
75.00		719.92	1335.37	0.00	0.00
80.00		711.72	1306.51	0.00	0.00
81.00		140.55	257.84	0.00	0.00
85.00		560.61	1019.82	0.00	0.00
90.00		704.28	2338.50	0.00	0.00
91.00		138.96	460.78	0.00	0.00
95.00		553.41	988.23	0.00	0.00
100.00		682.26	1209.31	0.00	0.00
105.00		670.20	1180.45	0.00	0.00
110.00		657.50	1151.60	0.00	0.00
115.00		644.21	1122.74	0.00	0.00
120.00		630.36	1093.89	0.00	0.00
125.00		615.98	1065.03	0.00	0.00
130.00		601.10	1036.17	0.00	0.00
135.00		598.47	1855.54	0.00	0.00
140.00		582.77	996.69	0.00	0.00
145.00		566.65	706.35	0.00	0.00
150.00		550.11	687.11	0.00	0.00
155.00		533.18	667.88	0.00	0.00
159.00	(21) attachments	5167.06	3207.49	0.00	0.00
160.00		101.51	112.88	0.00	0.00
165.00		498.22	552.84	0.00	0.00
170.00		480.22	533.60	0.00	0.00
173.00	(28) attachments	6000.36	4077.73	0.00	0.00
175.00		182.20	197.10	0.00	0.00
180.00		443.23	479.29	0.00	0.00
185.00		435.03	517.27	0.00	0.00
190.00		437.48	517.27	0.00	0.00
195.00	(22) attachments	7108.09	5363.47	0.00	0.00

Total Applied Force Summary

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	
		Struct Class:	II	Page: 13



Totals:	41,694.12	60,333.74	0.00	0.00
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Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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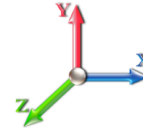


Load Case: 1.2D + 1.0W 124 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	1.64
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	6.24
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	1.64
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	1.64
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	6.24
18.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	32.668	0.00	0.98
18.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	32.668	0.00	3.74
18.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.50	0.00	0.033	0.000	32.668	0.00	0.00
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	33.401	0.00	0.66
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	33.401	0.00	2.50
20.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.33	0.00	0.033	0.000	33.401	0.00	0.00
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	35.007	0.00	1.64
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	35.007	0.00	6.24
25.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.033	0.000	35.007	0.00	0.00
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	36.377	0.00	1.64
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	36.377	0.00	6.24
30.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.034	0.000	36.377	0.00	0.00
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	37.577	0.00	1.64
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	37.577	0.00	6.24
35.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.035	0.000	37.577	0.00	0.00
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	38.648	0.00	1.64
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	38.648	0.00	6.24
40.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.035	0.000	38.648	0.00	0.00
41.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	38.850	0.00	0.33
41.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	38.850	0.00	1.25
41.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.17	0.00	0.036	0.000	38.850	0.00	0.00
45.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	39.619	0.00	1.31
45.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	39.619	0.00	4.99
45.00	Reinforcing channels	Yes	4.00	0.000	2.00	0.67	0.00	0.036	0.000	39.619	0.00	0.00
48.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	40.161	0.00	0.98
48.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	40.161	0.00	3.74
48.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.50	0.00	0.037	0.000	40.161	0.00	0.00
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	40.507	0.00	0.66
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	40.507	0.00	2.50
50.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.33	0.00	0.037	0.000	40.507	0.00	0.00
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	41.328	0.00	1.64
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	41.328	0.00	6.24
55.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.037	0.000	41.328	0.00	0.00
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	42.092	0.00	1.64
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	42.092	0.00	6.24
60.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.038	0.000	42.092	0.00	0.00
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	42.808	0.00	1.64
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	42.808	0.00	6.24
65.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.039	0.000	42.808	0.00	0.00
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	43.481	0.00	1.64
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	43.481	0.00	6.24

Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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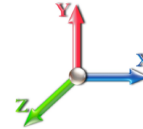


Load Case: 1.2D + 1.0W 124 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
70.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.040	0.000	43.481	0.00	0.00
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	44.117	0.00	1.64
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	44.117	0.00	6.24
75.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.041	0.000	44.117	0.00	0.00
80.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	44.721	0.00	1.64
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	44.721	0.00	6.24
80.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.042	0.000	44.721	0.00	0.00
81.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	44.838	0.00	0.33
81.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	44.838	0.00	1.25
81.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.17	0.00	0.043	0.000	44.838	0.00	0.00
85.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	45.295	0.00	1.31
85.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	45.295	0.00	4.99
85.00	Reinforcing channels	Yes	4.00	0.000	2.00	0.67	0.00	0.043	0.000	45.295	0.00	0.00
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	45.843	0.00	1.64
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	45.843	0.00	6.24
90.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.044	0.000	45.843	0.00	0.00
91.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	45.950	0.00	0.33
91.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	45.950	0.00	1.25
91.00	Reinforcing channels	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	45.950	0.00	0.00
95.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	46.368	0.00	1.31
95.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	46.368	0.00	4.99
95.00	Reinforcing channels	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	46.368	0.00	0.00
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	46.872	0.00	1.64
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	46.872	0.00	6.24
100.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	46.872	0.00	0.00
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.355	0.00	1.64
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.355	0.00	6.24
105.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.355	0.00	0.00
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.822	0.00	1.64
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.822	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.271	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.271	0.00	6.24
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.706	0.00	1.64
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.706	0.00	6.24
125.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.126	0.00	1.64
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.126	0.00	6.24
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.533	0.00	1.64
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.533	0.00	6.24
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.928	0.00	1.64
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.928	0.00	6.24
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.312	0.00	1.64
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.312	0.00	6.24
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.685	0.00	1.64
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.685	0.00	6.24
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.048	0.00	1.64
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.048	0.00	6.24
155.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.402	0.00	1.64

Linear Appurtenance Segment Forces (Factored)

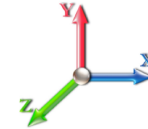
Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021	
Site Name: Lisbon	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 16



Load Case: 1.2D + 1.0W 124 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.402	0.00	6.24
159.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	51.678	0.00	1.31
159.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	51.678	0.00	4.99
160.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	51.747	0.00	0.33
160.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	51.747	0.00	1.25
165.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.083	0.00	1.64
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.083	0.00	6.24
170.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.411	0.00	1.64
170.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.411	0.00	6.24
173.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	52.605	0.00	0.98
173.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	52.605	0.00	3.74
175.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.732	0.00	0.66
175.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.732	0.00	2.50
180.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.046	0.00	1.64
180.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.046	0.00	6.24
185.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.353	0.00	1.64
185.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.353	0.00	6.24
190.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.653	0.00	1.64
190.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.653	0.00	6.24
195.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.947	0.00	1.64
195.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.947	0.00	6.24
Totals:											0.0	307.2

Calculated Forces

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 17

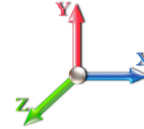


Load Case: 1.2D + 1.0W 124 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-60.27	-41.78	0.00	-5539.9	0.00	5539.96	6497.76	1801.35	9574.51	8573.64	0.00	0.000	0.000	0.656
5.00	-58.17	-41.27	0.00	-5331.0	0.00	5331.04	6432.14	1767.96	9222.85	8328.66	0.09	-0.168	0.000	0.650
10.00	-56.11	-40.76	0.00	-5124.7	0.00	5124.70	6364.44	1734.57	8877.76	8084.28	0.36	-0.338	0.000	0.643
15.00	-54.12	-40.21	0.00	-4920.9	0.00	4920.91	6294.68	1701.18	8539.25	7840.66	0.81	-0.512	0.000	0.509
18.00	-52.94	-39.86	0.00	-4800.2	0.00	4800.29	6251.82	1681.14	8339.30	7694.92	1.15	-0.597	0.000	0.505
18.00	-52.94	-39.86	0.00	-4800.2	0.00	4800.29	5035.78	1461.72	7258.43	6211.14	1.15	-0.597	0.000	0.538
20.00	-52.22	-39.68	0.00	-4720.5	0.00	4720.57	5016.94	1450.12	7143.68	6138.49	1.42	-0.655	0.000	0.601
25.00	-50.51	-39.10	0.00	-4522.1	0.00	4522.17	4968.35	1421.12	6860.79	5956.70	2.19	-0.815	0.000	0.590
30.00	-48.84	-38.50	0.00	-4326.6	0.00	4326.68	4917.65	1392.11	6583.61	5774.82	3.13	-0.978	0.000	0.579
35.00	-47.19	-37.88	0.00	-4134.2	0.00	4134.20	4864.84	1363.11	6312.15	5593.00	4.24	-1.143	0.000	0.568
40.00	-45.63	-37.20	0.00	-3944.8	0.00	3944.80	4809.92	1334.11	6046.41	5411.42	5.53	-1.309	0.000	0.557
41.00	-45.27	-37.11	0.00	-3907.6	0.00	3907.60	4798.68	1328.31	5993.94	5375.14	5.81	-1.343	0.000	0.555
45.00	-42.96	-36.55	0.00	-3759.1	0.00	3759.15	4752.88	1305.11	5786.38	5230.21	6.99	-1.479	0.000	0.542
48.00	-41.25	-36.13	0.00	-3649.4	0.00	3649.49	4754.71	1306.02	5794.50	5235.93	7.95	-1.581	0.000	0.546
50.00	-40.60	-35.90	0.00	-3577.2	0.00	3577.23	4731.34	1294.42	5692.02	5163.58	8.63	-1.650	0.000	0.524
55.00	-39.07	-35.23	0.00	-3397.7	0.00	3397.74	4671.41	1265.42	5439.81	4983.15	10.45	-1.816	0.000	0.513
60.00	-37.57	-34.55	0.00	-3221.6	0.00	3221.60	4609.37	1236.42	5193.31	4803.47	12.44	-1.982	0.000	0.501
65.00	-36.11	-33.88	0.00	-3048.8	0.00	3048.83	4545.22	1207.41	4952.53	4624.69	14.61	-2.151	0.000	0.488
70.00	-34.67	-33.20	0.00	-2879.4	0.00	2879.45	4478.96	1178.41	4717.47	4446.98	16.95	-2.320	0.000	0.476
75.00	-33.27	-32.53	0.00	-2713.4	0.00	2713.44	4410.58	1149.41	4488.12	4270.48	19.47	-2.491	0.000	0.463
80.00	-31.94	-31.81	0.00	-2550.8	0.00	2550.82	4340.09	1120.41	4264.49	4095.36	22.17	-2.663	0.000	0.450
81.00	-31.64	-31.71	0.00	-2519.0	0.00	2519.01	4325.74	1114.61	4220.44	4060.52	22.73	-2.698	0.000	0.448
81.00	-31.64	-31.71	0.00	-2519.0	0.00	2519.01	3843.52	967.95	3665.12	3607.87	22.73	-2.698	0.000	0.504
85.00	-30.57	-31.18	0.00	-2392.1	0.00	2392.17	3789.25	947.80	3514.12	3482.28	25.05	-2.837	0.000	0.492
90.00	-28.21	-30.41	0.00	-2236.2	0.00	2236.26	3719.86	922.61	3329.84	3326.92	28.11	-3.011	0.000	0.473
91.00	-27.71	-30.29	0.00	-2205.8	0.00	2205.85	3750.02	933.48	3408.76	3393.74	28.75	-3.046	0.000	0.480
95.00	-26.68	-29.76	0.00	-2084.6	0.00	2084.69	3693.87	913.33	3263.20	3270.16	31.36	-3.185	0.000	0.451
100.00	-25.41	-29.10	0.00	-1935.9	0.00	1935.91	3622.15	888.15	3085.71	3117.47	34.78	-3.351	0.000	0.629
105.00	-24.15	-28.46	0.00	-1790.4	0.00	1790.43	3548.72	862.96	2913.18	2966.89	38.42	-3.591	0.000	0.611
110.00	-22.92	-27.82	0.00	-1648.1	0.00	1648.14	3473.57	837.77	2745.61	2818.54	42.31	-3.832	0.000	0.592
115.00	-21.73	-27.20	0.00	-1509.0	0.00	1509.02	3396.72	812.59	2583.01	2672.54	46.45	-4.075	0.000	0.572
120.00	-20.58	-26.57	0.00	-1373.0	0.00	1373.05	3318.16	787.40	2425.37	2529.02	50.84	-4.317	0.000	0.550
125.00	-19.45	-25.96	0.00	-1240.1	0.00	1240.18	3226.71	762.22	2272.69	2379.87	55.49	-4.559	0.000	0.528
130.00	-18.37	-25.35	0.00	-1110.3	0.00	1110.38	3120.09	737.03	2124.98	2224.41	60.39	-4.798	0.000	0.506
135.00	-16.47	-24.66	0.00	-983.62	0.00	983.62	3080.81	727.75	2071.81	2168.45	65.53	-5.034	0.000	0.460
140.00	-15.44	-24.05	0.00	-860.29	0.00	860.29	2974.19	702.56	1930.89	2020.17	70.92	-5.265	0.000	0.432
140.00	-15.44	-24.05	0.00	-860.29	0.00	860.29	1787.24	463.02	1277.34	1223.14	70.92	-5.265	0.000	0.715
145.00	-14.68	-23.49	0.00	-740.02	0.00	740.02	1745.97	446.48	1187.73	1151.90	76.54	-5.473	0.000	0.654
150.00	-13.94	-22.94	0.00	-622.58	0.00	622.58	1703.02	429.95	1101.38	1081.63	82.43	-5.766	0.000	0.587
155.00	-13.24	-22.40	0.00	-507.87	0.00	507.87	1658.40	413.41	1018.29	1012.45	88.61	-6.039	0.000	0.513
159.00	-10.57	-16.94	0.00	-418.27	0.00	418.27	1621.51	400.18	954.16	957.99	93.74	-6.240	0.000	0.445
160.00	-10.42	-16.85	0.00	-401.33	0.00	401.33	1612.12	396.87	938.45	944.50	95.05	-6.289	0.000	0.433
165.00	-9.87	-16.33	0.00	-317.07	0.00	317.07	1564.16	380.34	861.88	877.89	101.75	-6.509	0.000	0.369
170.00	-9.36	-15.82	0.00	-235.41	0.00	235.41	1514.53	363.80	788.56	812.74	108.66	-6.701	0.000	0.298
173.00	-6.00	-9.39	0.00	-187.96	0.00	187.96	1483.95	353.88	746.14	774.41	112.89	-6.802	0.000	0.247
175.00	-5.81	-9.19	0.00	-169.19	0.00	169.19	1463.23	347.27	718.50	749.18	115.75	-6.864	0.000	0.231
180.00	-5.37	-8.71	0.00	-123.23	0.00	123.23	1400.09	330.73	651.70	682.38	123.00	-6.998	0.000	0.185
180.00	-5.37	-8.71	0.00	-123.23	0.00	123.23	871.37	205.83	405.06	423.57	123.00	-6.998	0.000	0.299

Calculated Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 18
	Struct Class: II	



185.00	-4.90	-8.22	0.00	-79.70	0.00	79.70	871.37	205.83	405.06	423.57	130.37	-7.105	0.000	0.195
190.00	-4.43	-7.72	0.00	-38.61	0.00	38.61	871.37	205.83	405.06	423.57	137.82	-7.161	0.000	0.098
195.00	0.00	-7.11	0.00	0.00	0.00	0.00	871.37	205.83	405.06	423.57	145.32	-7.180	0.000	0.001

Wind Loading - Shaft

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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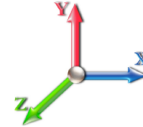


Load Case: 0.9D + 1.0W 124 mph Wind

Iterations 25

Dead Load Factor 0.90

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	31.479	34.63	620.95	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	31.479	34.63	609.52	0.730	0.000	5.00	27.038	19.74	683.5	0.0	1349.5
10.00		1.00	0.85	31.479	34.63	598.09	0.730	0.000	5.00	26.536	19.37	670.8	0.0	1324.3
15.00	RB1	1.00	0.85	31.479	34.63	586.66	0.730	0.000	5.00	26.034	19.00	658.1	0.0	1299.0
18.00	Top - Section 1	1.00	0.88	32.668	35.93	590.64	0.730	0.000	3.00	15.379	11.23	403.4	0.0	767.3
20.00		1.00	0.90	33.401	36.74	592.52	0.730	0.000	2.00	10.152	7.41	272.3	0.0	434.6
25.00		1.00	0.95	35.007	38.51	594.55	0.730	0.000	5.00	25.029	18.27	703.6	0.0	1071.3
30.00		1.00	0.98	36.377	40.01	593.78	0.730	0.000	5.00	24.526	17.90	716.4	0.0	1049.6
35.00		1.00	1.01	37.577	41.33	591.00	0.730	0.000	5.00	24.024	17.54	724.9	0.0	1028.0
40.00		1.00	1.04	38.648	42.51	586.70	0.730	0.000	5.00	23.521	17.17	730.0	0.0	1006.4
41.00	Bot - Section 3	1.00	1.05	38.850	42.73	585.68	0.730	0.000	1.00	4.644	3.39	144.9	0.0	198.7
45.00		1.00	1.07	39.619	43.58	581.19	0.730	0.000	4.00	18.629	13.60	592.7	0.0	1583.0
48.00	Top - Section 2	1.00	1.08	40.161	44.18	577.41	0.730	0.000	3.00	13.761	10.05	443.8	0.0	1169.1
50.00		1.00	1.09	40.507	44.56	582.90	0.730	0.000	2.00	9.073	6.62	295.1	0.0	388.1
55.00		1.00	1.12	41.328	45.46	575.67	0.730	0.000	5.00	22.331	16.30	741.1	0.0	955.1
60.00		1.00	1.14	42.092	46.30	567.75	0.730	0.000	5.00	21.829	15.94	737.8	0.0	933.5
65.00		1.00	1.16	42.808	47.09	559.22	0.730	0.000	5.00	21.327	15.57	733.1	0.0	911.8
70.00		1.00	1.17	43.481	47.83	550.17	0.730	0.000	5.00	20.824	15.20	727.1	0.0	890.2
75.00		1.00	1.19	44.117	48.53	540.64	0.730	0.000	5.00	20.322	14.83	719.9	0.0	868.5
80.00		1.00	1.21	44.721	49.19	530.70	0.730	0.000	5.00	19.819	14.47	711.7	0.0	846.9
81.00	Top - Section 3	1.00	1.21	44.838	49.32	528.67	0.730	0.000	1.00	3.904	2.85	140.5	0.0	166.8
85.00	Bot - Section 5	1.00	1.22	45.295	49.82	520.39	0.730	0.000	4.00	15.413	11.25	560.6	0.0	658.5
90.00		1.00	1.24	45.843	50.43	509.73	0.730	0.000	5.00	19.132	13.97	704.3	0.0	1620.9
91.00	Top - Section 4	1.00	1.24	45.950	50.55	507.56	0.730	0.000	1.00	3.766	2.75	139.0	0.0	319.0
95.00	RT1	1.00	1.25	46.368	51.00	507.53	0.730	0.000	4.00	14.863	10.85	553.4	0.0	634.8
100.00		1.00	1.27	46.872	51.56	496.33	0.730	0.000	5.00	18.127	13.23	682.3	0.0	774.0
105.00		1.00	1.28	47.355	52.09	484.86	0.730	0.000	5.00	17.625	12.87	670.2	0.0	752.4
110.00		1.00	1.29	47.822	52.60	473.15	0.730	0.000	5.00	17.122	12.50	657.5	0.0	730.7
115.00		1.00	1.30	48.271	53.10	461.21	0.730	0.000	5.00	16.620	12.13	644.2	0.0	709.1
120.00		1.00	1.32	48.706	53.58	449.06	0.730	0.000	5.00	16.117	11.77	630.4	0.0	687.4
125.00		1.00	1.33	49.126	54.04	436.71	0.730	0.000	5.00	15.615	11.40	616.0	0.0	665.8
130.00	Bot - Section 6	1.00	1.34	49.533	54.49	424.18	0.730	0.000	5.00	15.112	11.03	601.1	0.0	644.1
135.00	Top - Section 5	1.00	1.35	49.928	54.92	411.47	0.730	0.000	5.00	14.927	10.90	598.5	0.0	1258.7
140.00	Top - Section 6	1.00	1.36	50.312	55.34	407.72	0.730	0.000	5.00	14.425	10.53	582.8	0.0	614.5
145.00		1.00	1.37	50.685	55.75	394.73	0.730	0.000	5.00	13.922	10.16	566.6	0.0	396.8
150.00		1.00	1.38	51.048	56.15	381.58	0.730	0.000	5.00	13.420	9.80	550.1	0.0	382.3
155.00		1.00	1.39	51.402	56.54	368.29	0.730	0.000	5.00	12.918	9.43	533.2	0.0	367.9
159.00	Appurtenance(s)	1.00	1.40	51.678	56.85	357.56	0.730	0.000	4.00	9.972	7.28	413.8	0.0	283.9
160.00		1.00	1.40	51.747	56.92	354.87	0.730	0.000	1.00	2.443	1.78	101.5	0.0	69.5
165.00		1.00	1.41	52.083	57.29	341.31	0.730	0.000	5.00	11.913	8.70	498.2	0.0	339.1
170.00		1.00	1.42	52.411	57.65	327.64	0.730	0.000	5.00	11.410	8.33	480.2	0.0	324.6
173.00	Appurtenance(s)	1.00	1.42	52.605	57.87	319.37	0.730	0.000	3.00	6.605	4.82	279.0	0.0	187.9
175.00		1.00	1.42	52.732	58.01	313.84	0.730	0.000	2.00	4.303	3.14	182.2	0.0	122.4
180.00	Top - Section 7	1.00	1.43	53.046	58.35	299.93	0.730	0.000	5.00	10.405	7.60	443.2	0.0	295.8
185.00		1.00	1.44	53.353	58.69	300.80	0.730	0.000	5.00	10.154	7.41	435.0	0.0	324.3
190.00		1.00	1.45	53.653	59.02	301.64	0.730	0.000	5.00	10.154	7.41	437.5	0.0	324.3
195.00	Appurtenance(s)	1.00	1.46	53.947	59.34	302.47	0.730	0.000	5.00	10.154	7.41	439.9	0.0	324.3

Wind Loading - Shaft

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	Struct Class: II
				Page: 20



Totals:	195.00	24,551.3	32,054.4
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Discrete Appurtenance Forces

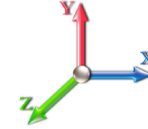
Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 21
	Struct Class: II	



Load Case: 0.9D + 1.0W 124 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	Ericsson KRY 112 144/1	3	53.947	59.342	0.52	0.75	0.65	29.70	0.000	0.000	38.32	0.00	0.00
2	195.00	AIR6449 B41	3	53.947	59.342	0.53	0.75	9.03	278.10	0.000	0.000	535.61	0.00	0.00
3	195.00	APXVAALL24-43-U-NA20	3	53.947	59.342	0.55	0.75	33.24	267.30	0.000	0.000	1972.78	0.00	0.00
4	195.00	APX16DWV-16DWVS-E-A	3	53.947	59.342	0.46	0.75	9.22	109.89	0.000	0.000	547.19	0.00	0.00
5	195.00	RMQP-4096-HK	1	53.947	59.342	1.00	1.00	51.70	2380.50	0.000	0.000	3067.98	0.00	0.00
6	195.00	Ericsson 4449 B71 + B85	3	53.947	59.342	0.50	0.75	2.97	197.64	0.000	0.000	176.23	0.00	0.00
7	195.00	Ericsson 4424 B25	3	53.947	59.342	0.50	0.75	3.09	237.60	0.000	0.000	183.39	0.00	0.00
8	195.00	Ericsson 4415 B66A	3	53.947	59.342	0.50	0.75	2.47	133.92	0.000	0.000	146.71	0.00	0.00
9	173.00	ALU TD-RRH8x20-25	3	52.605	57.865	0.55	0.80	6.71	189.00	0.000	0.000	388.09	0.00	0.00
10	173.00	DT465B-2XR	3	52.605	57.865	0.66	0.80	18.13	156.60	0.000	0.000	1048.93	0.00	0.00
11	173.00	RFS ACU-A20-N RET	4	52.605	57.865	0.40	0.80	0.22	3.60	0.000	0.000	12.96	0.00	0.00
12	173.00	ALU 800 MHz Filter	3	52.605	57.865	0.40	0.80	0.50	27.00	0.000	0.000	29.16	0.00	0.00
13	173.00	ALU 1900 MHz RRH	3	52.605	57.865	0.40	0.80	4.56	118.80	0.000	0.000	263.87	0.00	0.00
14	173.00	APXVSP18-C-A20	3	52.605	57.865	0.66	0.80	15.98	153.90	0.000	0.000	924.44	0.00	0.00
15	173.00	Sector Frame-Pipe/Rod	3	52.605	57.865	0.60	0.80	46.80	1890.00	0.000	0.000	2708.09	0.00	0.00
16	173.00	ALU 800 MHz RRH	6	52.605	57.865	0.40	0.80	5.98	286.20	0.000	0.000	345.80	0.00	0.00
17	159.00	Samsung B5/B13	3	51.678	56.846	0.54	0.80	3.01	189.81	0.000	0.000	170.93	0.00	0.00
18	159.00	Samsung VZS01	3	51.678	56.846	0.55	0.80	7.12	235.17	0.000	0.000	404.79	0.00	0.00
19	159.00	Samsung B2/B66A	3	51.678	56.846	0.54	0.80	3.01	227.88	0.000	0.000	170.93	0.00	0.00
20	159.00	BXA-70080-4BF	3	51.678	56.846	0.70	0.80	7.52	32.40	0.000	0.000	427.41	0.00	0.00
21	159.00	Low Profile Platform-flat	1	51.678	56.846	1.00	1.00	25.00	1080.00	0.000	0.000	1421.15	0.00	0.00
22	159.00	SBNHH-1D65B	6	51.678	56.846	0.66	0.80	32.51	216.00	0.000	0.000	1848.04	0.00	0.00
23	159.00	Rfs Celwave	2	51.678	56.846	0.57	0.80	5.45	34.02	0.000	0.000	309.97	0.00	0.00

Totals: 8,475.03

17,142.79

Total Applied Force Summary

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

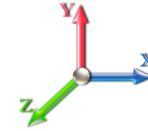


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Load Case: 0.9D + 1.0W 124 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		683.47	1482.50	0.00	0.00
10.00		670.77	1457.25	0.00	0.00
15.00		658.07	1432.00	0.00	0.00
18.00		403.43	847.08	0.00	0.00
20.00		272.29	487.77	0.00	0.00
25.00		703.58	1204.28	0.00	0.00
30.00		716.43	1182.64	0.00	0.00
35.00		724.91	1161.00	0.00	0.00
40.00		729.98	1139.35	0.00	0.00
41.00		144.88	225.27	0.00	0.00
45.00		592.66	1689.42	0.00	0.00
48.00		443.77	1248.88	0.00	0.00
50.00		295.13	441.30	0.00	0.00
55.00		741.11	1088.09	0.00	0.00
60.00		737.83	1066.45	0.00	0.00
65.00		733.09	1044.81	0.00	0.00
70.00		727.08	1023.17	0.00	0.00
75.00		719.92	1001.53	0.00	0.00
80.00		711.72	979.88	0.00	0.00
81.00		140.55	193.38	0.00	0.00
85.00		560.61	764.86	0.00	0.00
90.00		704.28	1753.88	0.00	0.00
91.00		138.96	345.58	0.00	0.00
95.00		553.41	741.17	0.00	0.00
100.00		682.26	906.98	0.00	0.00
105.00		670.20	885.34	0.00	0.00
110.00		657.50	863.70	0.00	0.00
115.00		644.21	842.06	0.00	0.00
120.00		630.36	820.41	0.00	0.00
125.00		615.98	798.77	0.00	0.00
130.00		601.10	777.13	0.00	0.00
135.00		598.47	1391.66	0.00	0.00
140.00		582.77	747.51	0.00	0.00
145.00		566.65	529.76	0.00	0.00
150.00		550.11	515.33	0.00	0.00
155.00		533.18	500.91	0.00	0.00
159.00	(21) attachments	5167.06	2405.62	0.00	0.00
160.00		101.51	84.66	0.00	0.00
165.00		498.22	414.63	0.00	0.00
170.00		480.22	400.20	0.00	0.00
173.00	(28) attachments	6000.36	3058.30	0.00	0.00
175.00		182.20	147.83	0.00	0.00
180.00		443.23	359.47	0.00	0.00
185.00		435.03	387.95	0.00	0.00
190.00		437.48	387.95	0.00	0.00
195.00	(22) attachments	7108.09	4022.60	0.00	0.00

Total Applied Force Summary

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	
		Struct Class:	II	Page: 23



Totals:	41,694.12	45,250.31	0.00	0.00
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Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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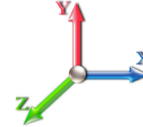


Load Case: 0.9D + 1.0W 124 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 25



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	1.23
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	4.68
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	1.23
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	1.23
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	31.479	0.00	4.68
18.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	32.668	0.00	0.74
18.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	32.668	0.00	2.81
18.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.50	0.00	0.033	0.000	32.668	0.00	0.00
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	33.401	0.00	0.49
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	33.401	0.00	1.87
20.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.33	0.00	0.033	0.000	33.401	0.00	0.00
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	35.007	0.00	1.23
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	35.007	0.00	4.68
25.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.033	0.000	35.007	0.00	0.00
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	36.377	0.00	1.23
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	36.377	0.00	4.68
30.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.034	0.000	36.377	0.00	0.00
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	37.577	0.00	1.23
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	37.577	0.00	4.68
35.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.035	0.000	37.577	0.00	0.00
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	38.648	0.00	1.23
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	38.648	0.00	4.68
40.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.035	0.000	38.648	0.00	0.00
41.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	38.850	0.00	0.25
41.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	38.850	0.00	0.94
41.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.17	0.00	0.036	0.000	38.850	0.00	0.00
45.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	39.619	0.00	0.98
45.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	39.619	0.00	3.74
45.00	Reinforcing channels	Yes	4.00	0.000	2.00	0.67	0.00	0.036	0.000	39.619	0.00	0.00
48.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	40.161	0.00	0.74
48.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	40.161	0.00	2.81
48.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.50	0.00	0.037	0.000	40.161	0.00	0.00
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	40.507	0.00	0.49
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	40.507	0.00	1.87
50.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.33	0.00	0.037	0.000	40.507	0.00	0.00
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	41.328	0.00	1.23
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	41.328	0.00	4.68
55.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.037	0.000	41.328	0.00	0.00
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	42.092	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	42.092	0.00	4.68
60.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.038	0.000	42.092	0.00	0.00
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	42.808	0.00	1.23
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	42.808	0.00	4.68
65.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.039	0.000	42.808	0.00	0.00
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	43.481	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	43.481	0.00	4.68

Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

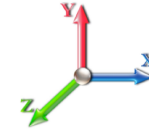
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Load Case: 0.9D + 1.0W 124 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
70.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.040	0.000	43.481	0.00	0.00
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	44.117	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	44.117	0.00	4.68
75.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.041	0.000	44.117	0.00	0.00
80.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	44.721	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	44.721	0.00	4.68
80.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.042	0.000	44.721	0.00	0.00
81.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	44.838	0.00	0.25
81.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	44.838	0.00	0.94
81.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.17	0.00	0.043	0.000	44.838	0.00	0.00
85.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	45.295	0.00	0.98
85.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	45.295	0.00	3.74
85.00	Reinforcing channels	Yes	4.00	0.000	2.00	0.67	0.00	0.043	0.000	45.295	0.00	0.00
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	45.843	0.00	1.23
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	45.843	0.00	4.68
90.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.044	0.000	45.843	0.00	0.00
91.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	45.950	0.00	0.25
91.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	45.950	0.00	0.94
91.00	Reinforcing channels	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	45.950	0.00	0.00
95.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	46.368	0.00	0.98
95.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	46.368	0.00	3.74
95.00	Reinforcing channels	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	46.368	0.00	0.00
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	46.872	0.00	1.23
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	46.872	0.00	4.68
100.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	46.872	0.00	0.00
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.355	0.00	1.23
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.355	0.00	4.68
105.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.355	0.00	0.00
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.822	0.00	1.23
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	47.822	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.271	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.271	0.00	4.68
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.706	0.00	1.23
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	48.706	0.00	4.68
125.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.126	0.00	1.23
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.126	0.00	4.68
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.533	0.00	1.23
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.533	0.00	4.68
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.928	0.00	1.23
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	49.928	0.00	4.68
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.312	0.00	1.23
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.312	0.00	4.68
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.685	0.00	1.23
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	50.685	0.00	4.68
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.048	0.00	1.23
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.048	0.00	4.68
155.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.402	0.00	1.23

Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

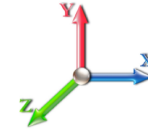


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Load Case: 0.9D + 1.0W 124 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	51.402	0.00	4.68
159.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	51.678	0.00	0.98
159.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	51.678	0.00	3.74
160.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	51.747	0.00	0.25
160.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	51.747	0.00	0.94
165.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.083	0.00	1.23
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.083	0.00	4.68
170.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.411	0.00	1.23
170.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	52.411	0.00	4.68
173.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	52.605	0.00	0.74
173.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	52.605	0.00	2.81
175.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.732	0.00	0.49
175.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	52.732	0.00	1.87
180.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.046	0.00	1.23
180.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.046	0.00	4.68
185.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.353	0.00	1.23
185.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.353	0.00	4.68
190.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.653	0.00	1.23
190.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.653	0.00	4.68
195.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.947	0.00	1.23
195.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	53.947	0.00	4.68
Totals:											0.0	230.4

Calculated Forces

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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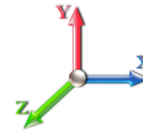


Load Case: 0.9D + 1.0W 124 mph Wind

Iterations 25

Dead Load Factor 0.90

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-45.19	-41.76	0.00	-5476.0	0.00	5476.00	6497.76	1801.35	9574.51	8573.64	0.00	0.000	0.000	0.646
5.00	-43.59	-41.20	0.00	-5267.2	0.00	5267.20	6432.14	1767.96	9222.85	8328.66	0.09	-0.166	0.000	0.640
10.00	-42.01	-40.65	0.00	-5061.1	0.00	5061.19	6364.44	1734.57	8877.76	8084.28	0.35	-0.334	0.000	0.633
15.00	-40.50	-40.07	0.00	-4857.9	0.00	4857.94	6294.68	1701.18	8539.25	7840.66	0.80	-0.505	0.000	0.501
18.00	-39.60	-39.71	0.00	-4737.7	0.00	4737.73	6251.82	1681.14	8339.30	7694.92	1.14	-0.590	0.000	0.496
18.00	-39.60	-39.71	0.00	-4737.7	0.00	4737.73	5035.78	1461.72	7258.43	6211.14	1.14	-0.590	0.000	0.529
20.00	-39.04	-39.50	0.00	-4658.3	0.00	4658.32	5016.94	1450.12	7143.68	6138.49	1.40	-0.647	0.000	0.591
25.00	-37.74	-38.89	0.00	-4460.8	0.00	4460.80	4968.35	1421.12	6860.79	5956.70	2.16	-0.805	0.000	0.580
30.00	-36.46	-38.26	0.00	-4266.3	0.00	4266.34	4917.65	1392.11	6583.61	5774.82	3.09	-0.966	0.000	0.569
35.00	-35.21	-37.61	0.00	-4075.0	0.00	4075.05	4864.84	1363.11	6312.15	5593.00	4.19	-1.128	0.000	0.558
40.00	-34.02	-36.92	0.00	-3886.9	0.00	3886.98	4809.92	1334.11	6046.41	5411.42	5.46	-1.292	0.000	0.547
41.00	-33.75	-36.82	0.00	-3850.0	0.00	3850.07	4798.68	1328.31	5993.94	5375.14	5.73	-1.326	0.000	0.545
45.00	-32.00	-36.25	0.00	-3702.8	0.00	3702.80	4752.88	1305.11	5786.38	5230.21	6.90	-1.459	0.000	0.532
48.00	-30.71	-35.82	0.00	-3594.0	0.00	3594.05	4754.71	1306.02	5794.50	5235.93	7.85	-1.560	0.000	0.536
50.00	-30.20	-35.57	0.00	-3522.4	0.00	3522.42	4731.34	1294.42	5692.02	5163.58	8.52	-1.628	0.000	0.515
55.00	-29.04	-34.88	0.00	-3344.5	0.00	3344.56	4671.41	1265.42	5439.81	4983.15	10.31	-1.791	0.000	0.503
60.00	-27.90	-34.19	0.00	-3170.1	0.00	3170.15	4609.37	1236.42	5193.31	4803.47	12.28	-1.955	0.000	0.491
65.00	-26.78	-33.50	0.00	-2999.2	0.00	2999.20	4545.22	1207.41	4952.53	4624.69	14.41	-2.120	0.000	0.479
70.00	-25.69	-32.81	0.00	-2831.7	0.00	2831.72	4478.96	1178.41	4717.47	4446.98	16.72	-2.287	0.000	0.467
75.00	-24.63	-32.12	0.00	-2667.6	0.00	2667.68	4410.58	1149.41	4488.12	4270.48	19.21	-2.455	0.000	0.454
80.00	-23.62	-31.41	0.00	-2507.0	0.00	2507.09	4340.09	1120.41	4264.49	4095.36	21.87	-2.624	0.000	0.441
81.00	-23.39	-31.29	0.00	-2475.6	0.00	2475.68	4325.74	1114.61	4220.44	4060.52	22.42	-2.659	0.000	0.439
81.00	-23.39	-31.29	0.00	-2475.6	0.00	2475.68	3843.52	967.95	3665.12	3607.87	22.42	-2.659	0.000	0.494
85.00	-22.57	-30.76	0.00	-2350.5	0.00	2350.52	3789.25	947.80	3514.12	3482.28	24.71	-2.795	0.000	0.482
90.00	-20.80	-30.00	0.00	-2196.7	0.00	2196.74	3719.86	922.61	3329.84	3326.92	27.73	-2.966	0.000	0.463
91.00	-20.42	-29.88	0.00	-2166.7	0.00	2166.74	3750.02	933.48	3408.76	3393.74	28.35	-3.000	0.000	0.470
95.00	-19.63	-29.33	0.00	-2047.2	0.00	2047.23	3693.87	913.33	3263.20	3270.16	30.92	-3.137	0.000	0.442
100.00	-18.66	-28.67	0.00	-1900.5	0.00	1900.56	3622.15	888.15	3085.71	3117.47	34.29	-3.300	0.000	0.616
105.00	-17.70	-28.02	0.00	-1757.2	0.00	1757.22	3548.72	862.96	2913.18	2966.89	37.87	-3.535	0.000	0.598
110.00	-16.77	-27.38	0.00	-1617.1	0.00	1617.13	3473.57	837.77	2745.61	2818.54	41.70	-3.772	0.000	0.580
115.00	-15.86	-26.74	0.00	-1480.2	0.00	1480.24	3396.72	812.59	2583.01	2672.54	45.78	-4.010	0.000	0.560
120.00	-14.98	-26.12	0.00	-1346.5	0.00	1346.52	3318.16	787.40	2425.37	2529.02	50.10	-4.248	0.000	0.538
125.00	-14.13	-25.50	0.00	-1215.9	0.00	1215.92	3226.71	762.22	2272.69	2379.87	54.67	-4.485	0.000	0.516
130.00	-13.30	-24.90	0.00	-1088.4	0.00	1088.41	3120.09	737.03	2124.98	2224.41	59.49	-4.720	0.000	0.495
135.00	-11.87	-24.23	0.00	-963.94	0.00	963.94	3080.81	727.75	2071.81	2168.45	64.55	-4.951	0.000	0.449
140.00	-11.09	-23.62	0.00	-842.80	0.00	842.80	2974.19	702.56	1930.89	2020.17	69.86	-5.177	0.000	0.422
140.00	-11.09	-23.62	0.00	-842.80	0.00	842.80	1787.24	463.02	1277.34	1223.14	69.86	-5.177	0.000	0.698
145.00	-10.51	-23.06	0.00	-724.68	0.00	724.68	1745.97	446.48	1187.73	1151.90	75.38	-5.381	0.000	0.638
150.00	-9.94	-22.51	0.00	-609.39	0.00	609.39	1703.02	429.95	1101.38	1081.63	81.17	-5.668	0.000	0.572
155.00	-9.41	-21.97	0.00	-496.85	0.00	496.85	1658.40	413.41	1018.29	1012.45	87.24	-5.935	0.000	0.499
159.00	-7.53	-16.59	0.00	-408.99	0.00	408.99	1621.51	400.18	954.16	957.99	92.29	-6.131	0.000	0.433
160.00	-7.42	-16.50	0.00	-392.40	0.00	392.40	1612.12	396.87	938.45	944.50	93.58	-6.179	0.000	0.422
165.00	-7.00	-15.98	0.00	-309.92	0.00	309.92	1564.16	380.34	861.88	877.89	100.15	-6.394	0.000	0.359
170.00	-6.62	-15.47	0.00	-230.02	0.00	230.02	1514.53	363.80	788.56	812.74	106.94	-6.582	0.000	0.289
173.00	-4.26	-9.17	0.00	-183.59	0.00	183.59	1483.95	353.88	746.14	774.41	111.10	-6.681	0.000	0.241
175.00	-4.12	-8.98	0.00	-165.26	0.00	165.26	1463.23	347.27	718.50	749.18	113.91	-6.741	0.000	0.224
180.00	-3.80	-8.50	0.00	-120.38	0.00	120.38	1400.09	330.73	651.70	682.38	121.03	-6.872	0.000	0.180
180.00	-3.80	-8.50	0.00	-120.38	0.00	120.38	871.37	205.83	405.06	423.57	121.03	-6.872	0.000	0.290

Calculated Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 28



185.00	-3.46	-8.03	0.00	-77.87	0.00	77.87	871.37	205.83	405.06	423.57	128.26	-6.977	0.000	0.189
190.00	-3.12	-7.55	0.00	-37.74	0.00	37.74	871.37	205.83	405.06	423.57	135.59	-7.032	0.000	0.094
195.00	0.00	-7.11	0.00	0.00	0.00	0.00	871.37	205.83	405.06	423.57	142.95	-7.050	0.000	0.001

Wind Loading - Shaft

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 29

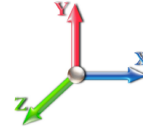


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

Dead Load Factor 1.20

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.118	5.63	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.118	5.63	0.00	1.200	0.828	5.00	27.728	33.27	187.3	332.8	2132.1
10.00		1.00	0.85	5.118	5.63	0.00	1.200	0.887	5.00	27.276	32.73	184.3	350.4	2116.0
15.00	RB1	1.00	0.85	5.118	5.63	0.00	1.200	0.924	5.00	26.804	32.16	181.1	358.2	2090.2
18.00	Top - Section 1	1.00	0.88	5.312	5.84	0.00	1.200	0.941	3.00	15.850	19.02	111.1	216.4	1239.5
20.00		1.00	0.90	5.431	5.97	0.00	1.200	0.951	2.00	10.469	12.56	75.0	144.7	724.1
25.00		1.00	0.95	5.692	6.26	0.00	1.200	0.973	5.00	25.839	31.01	194.1	362.8	1791.2
30.00		1.00	0.98	5.915	6.51	0.00	1.200	0.991	5.00	25.352	30.42	197.9	362.2	1761.7
35.00		1.00	1.01	6.110	6.72	0.00	1.200	1.006	5.00	24.862	29.83	200.5	360.4	1731.1
40.00		1.00	1.04	6.284	6.91	0.00	1.200	1.019	5.00	24.371	29.25	202.2	357.8	1699.6
41.00	Bot - Section 3	1.00	1.05	6.317	6.95	0.00	1.200	1.022	1.00	4.814	5.78	40.1	71.4	336.3
45.00		1.00	1.07	6.442	7.09	0.00	1.200	1.032	4.00	19.317	23.18	164.2	287.4	2398.1
48.00	Top - Section 2	1.00	1.08	6.530	7.18	0.00	1.200	1.038	3.00	14.280	17.14	123.1	214.2	1773.0
50.00		1.00	1.09	6.586	7.24	0.00	1.200	1.042	2.00	9.421	11.30	81.9	142.2	659.6
55.00		1.00	1.12	6.720	7.39	0.00	1.200	1.052	5.00	23.208	27.85	205.9	351.0	1624.5
60.00		1.00	1.14	6.844	7.53	0.00	1.200	1.062	5.00	22.714	27.26	205.2	346.2	1590.9
65.00		1.00	1.16	6.960	7.66	0.00	1.200	1.070	5.00	22.218	26.66	204.1	341.1	1556.9
70.00		1.00	1.17	7.070	7.78	0.00	1.200	1.078	5.00	21.723	26.07	202.7	335.7	1522.6
75.00		1.00	1.19	7.173	7.89	0.00	1.200	1.086	5.00	21.226	25.47	201.0	330.0	1488.0
80.00		1.00	1.21	7.271	8.00	0.00	1.200	1.093	5.00	20.730	24.88	199.0	324.0	1453.2
81.00	Top - Section 3	1.00	1.21	7.290	8.02	0.00	1.200	1.094	1.00	4.086	4.90	39.3	64.6	286.9
85.00	Bot - Section 5	1.00	1.22	7.365	8.10	0.00	1.200	1.099	4.00	16.146	19.38	157.0	254.3	1132.3
90.00		1.00	1.24	7.454	8.20	0.00	1.200	1.106	5.00	20.053	24.06	197.3	316.7	2477.9
91.00	Top - Section 4	1.00	1.24	7.471	8.22	0.00	1.200	1.107	1.00	3.951	4.74	39.0	63.1	488.4
95.00	RT1	1.00	1.25	7.539	8.29	0.00	1.200	1.112	4.00	15.604	18.73	155.3	248.2	1094.5
100.00		1.00	1.27	7.621	8.38	0.00	1.200	1.117	5.00	19.058	22.87	191.7	303.5	1335.5
105.00		1.00	1.28	7.700	8.47	0.00	1.200	1.123	5.00	18.560	22.27	188.6	296.7	1299.8
110.00		1.00	1.29	7.775	8.55	0.00	1.200	1.128	5.00	18.062	21.67	185.4	289.7	1264.0
115.00		1.00	1.30	7.848	8.63	0.00	1.200	1.133	5.00	17.564	21.08	182.0	282.6	1228.0
120.00		1.00	1.32	7.919	8.71	0.00	1.200	1.138	5.00	17.065	20.48	178.4	275.4	1191.9
125.00		1.00	1.33	7.987	8.79	0.00	1.200	1.142	5.00	16.567	19.88	174.7	268.0	1155.7
130.00	Bot - Section 6	1.00	1.34	8.054	8.86	0.00	1.200	1.147	5.00	16.068	19.28	170.8	260.6	1119.4
135.00	Top - Section 5	1.00	1.35	8.118	8.93	0.00	1.200	1.151	5.00	15.887	19.06	170.2	258.4	1936.7
140.00	Top - Section 6	1.00	1.36	8.180	9.00	0.00	1.200	1.155	5.00	15.388	18.47	166.2	250.8	1070.2
145.00		1.00	1.37	8.241	9.07	0.00	1.200	1.160	5.00	14.889	17.87	162.0	243.1	772.1
150.00		1.00	1.38	8.300	9.13	0.00	1.200	1.163	5.00	14.390	17.27	157.7	235.3	745.1
155.00		1.00	1.39	8.357	9.19	0.00	1.200	1.167	5.00	13.890	16.67	153.2	227.4	718.0
159.00	Appurtenance(s)	1.00	1.40	8.402	9.24	0.00	1.200	1.170	4.00	10.753	12.90	119.3	176.8	555.4
160.00		1.00	1.40	8.414	9.25	0.00	1.200	1.171	1.00	2.638	3.17	29.3	43.9	136.6
165.00		1.00	1.41	8.468	9.32	0.00	1.200	1.175	5.00	12.892	15.47	144.1	211.4	663.5
170.00		1.00	1.42	8.522	9.37	0.00	1.200	1.178	5.00	12.392	14.87	139.4	203.3	636.1
173.00	Appurtenance(s)	1.00	1.42	8.553	9.41	0.00	1.200	1.180	3.00	7.195	8.63	81.2	119.0	369.5
175.00		1.00	1.42	8.574	9.43	0.00	1.200	1.182	2.00	4.697	5.64	53.2	78.0	241.2
180.00	Top - Section 7	1.00	1.43	8.625	9.49	0.00	1.200	1.185	5.00	11.393	13.67	129.7	186.9	581.2
185.00		1.00	1.44	8.675	9.54	0.00	1.200	1.188	5.00	11.144	13.37	127.6	187.4	619.8
190.00		1.00	1.45	8.724	9.60	0.00	1.200	1.191	5.00	11.147	13.38	128.4	187.9	620.3
195.00	Appurtenance(s)	1.00	1.46	8.771	9.65	0.00	1.200	1.194	5.00	11.150	13.38	129.1	188.4	620.8

Wind Loading - Shaft

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	Struct Class: II
				Page: 30



Totals:	195.00	6,910.6	54,049.5
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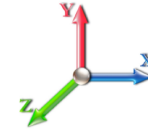
Discrete Appurtenance Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 31



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	Ericsson KRY 112 144/1	3	8.771	9.648	0.52	0.75	1.16	52.44	0.000	0.000	11.17	0.00	0.00
2	195.00	AIR6449 B41	3	8.771	9.648	0.53	0.75	10.07	557.23	0.000	0.000	97.11	0.00	0.00
3	195.00	APXVAALL24-43-U-NA20	3	8.771	9.648	0.55	0.75	35.36	1200.19	0.000	0.000	341.12	0.00	0.00
4	195.00	APX16DWV-16DWVS-E-A	3	8.771	9.648	0.46	0.75	11.30	286.36	0.000	0.000	109.03	0.00	0.00
5	195.00	RMQP-4096-HK	1	8.771	9.648	1.00	1.00	77.88	4314.52	0.000	0.000	751.45	0.00	0.00
6	195.00	Ericsson 4449 B71 + B85	3	8.771	9.648	0.50	0.75	3.56	206.88	0.000	0.000	34.32	0.00	0.00
7	195.00	Ericsson 4424 B25	3	8.771	9.648	0.50	0.75	3.69	481.73	0.000	0.000	35.57	0.00	0.00
8	195.00	Ericsson 4415 B66A	3	8.771	9.648	0.50	0.75	3.02	285.56	0.000	0.000	29.17	0.00	0.00
9	173.00	ALU TD-RRH8x20-25	3	8.553	9.408	0.55	0.80	7.59	461.25	0.000	0.000	71.44	0.00	0.00
10	173.00	DT465B-2XR	3	8.553	9.408	0.66	0.80	19.90	649.90	0.000	0.000	187.19	0.00	0.00
11	173.00	RFS ACU-A20-N RET	4	8.553	9.408	0.40	0.80	0.55	11.22	0.000	0.000	5.13	0.00	0.00
12	173.00	ALU 800 MHz Filter	3	8.553	9.408	0.40	0.80	0.75	75.89	0.000	0.000	7.09	0.00	0.00
13	173.00	ALU 1900 MHz RRH	3	8.553	9.408	0.40	0.80	5.69	286.26	0.000	0.000	53.51	0.00	0.00
14	173.00	APXVSP18-C-A20	3	8.553	9.408	0.66	0.80	19.74	407.37	0.000	0.000	185.71	0.00	0.00
15	173.00	Sector Frame-Pipe/Rod	3	8.553	9.408	0.60	0.80	62.71	4080.33	0.000	0.000	589.97	0.00	0.00
16	173.00	ALU 800 MHz RRH	6	8.553	9.408	0.40	0.80	7.83	555.09	0.000	0.000	73.69	0.00	0.00
17	159.00	Samsung B5/B13	3	8.402	9.243	0.54	0.80	3.61	381.11	0.000	0.000	33.34	0.00	0.00
18	159.00	Samsung VZS01	3	8.402	9.243	0.55	0.80	8.08	521.33	0.000	0.000	74.72	0.00	0.00
19	159.00	Samsung B2/B66A	3	8.402	9.243	0.54	0.80	3.61	445.86	0.000	0.000	33.34	0.00	0.00
20	159.00	BXA-70080-4BF	3	8.402	9.243	0.71	0.80	10.19	145.05	0.000	0.000	94.20	0.00	0.00
21	159.00	Low Profile Platform-flat	1	8.402	9.243	1.00	1.00	39.04	1842.17	0.000	0.000	360.86	0.00	0.00
22	159.00	SBNHH-1D65B	6	8.402	9.243	0.66	0.80	35.90	1054.29	0.000	0.000	331.80	0.00	0.00
23	159.00	Rfs Celwave	2	8.402	9.243	0.57	0.80	6.10	226.98	0.000	0.000	56.41	0.00	0.00

Totals: 18,529.01

3,567.34

Total Applied Force Summary

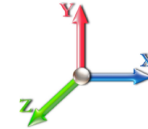
Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021	
Site Name: Lisbon	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 32



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		187.34	2321.24	0.00	0.00
10.00		184.28	2306.65	0.00	0.00
15.00		181.09	2281.77	0.00	0.00
18.00		111.13	1362.81	0.00	0.00
20.00		75.05	806.55	0.00	0.00
25.00		194.14	1998.23	0.00	0.00
30.00		197.93	1969.64	0.00	0.00
35.00		200.51	1939.76	0.00	0.00
40.00		202.15	1908.91	0.00	0.00
41.00		40.14	378.22	0.00	0.00
45.00		164.25	2566.04	0.00	0.00
48.00		123.08	1899.13	0.00	0.00
50.00		81.90	743.80	0.00	0.00
55.00		205.86	1835.44	0.00	0.00
60.00		205.19	1802.28	0.00	0.00
65.00		204.13	1768.73	0.00	0.00
70.00		202.71	1734.85	0.00	0.00
75.00		200.98	1700.67	0.00	0.00
80.00		198.96	1666.23	0.00	0.00
81.00		39.32	329.55	0.00	0.00
85.00		156.96	1302.93	0.00	0.00
90.00		197.30	2691.56	0.00	0.00
91.00		38.96	529.25	0.00	0.00
95.00		155.29	1258.13	0.00	0.00
100.00		191.72	1540.26	0.00	0.00
105.00		188.63	1504.82	0.00	0.00
110.00		185.38	1461.46	0.00	0.00
115.00		181.96	1425.65	0.00	0.00
120.00		178.39	1389.72	0.00	0.00
125.00		174.67	1353.67	0.00	0.00
130.00		170.82	1317.51	0.00	0.00
135.00		170.24	2134.87	0.00	0.00
140.00		166.16	1268.52	0.00	0.00
145.00		161.96	970.60	0.00	0.00
150.00		157.65	943.69	0.00	0.00
155.00		153.24	916.69	0.00	0.00
159.00	(21) attachments	1103.93	5331.28	0.00	0.00
160.00		29.30	161.07	0.00	0.00
165.00		144.10	785.89	0.00	0.00
170.00		139.39	758.65	0.00	0.00
173.00	(28) attachments	1254.96	6970.38	0.00	0.00
175.00		53.15	283.90	0.00	0.00
180.00		129.70	688.14	0.00	0.00
185.00		127.61	726.77	0.00	0.00
190.00		128.36	727.39	0.00	0.00
195.00	(22) attachments	1538.03	8112.91	0.00	0.00

Total Applied Force Summary

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	
		Struct Class:	II	Page: 33



Totals:	10,477.99	79,876.18	0.00	0.00
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Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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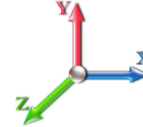


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.118	0.00	7.09
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.118	0.00	12.60
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.118	0.00	7.80
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.118	0.00	13.37
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.118	0.00	8.26
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	5.118	0.00	13.87
18.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	5.312	0.00	5.09
18.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	5.312	0.00	8.46
18.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.97	0.00	0.033	0.000	5.312	0.00	8.14
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	5.431	0.00	3.44
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	5.431	0.00	5.70
20.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.65	0.00	0.033	0.000	5.431	0.00	5.50
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	5.692	0.00	8.89
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	5.692	0.00	14.55
25.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.64	0.00	0.033	0.000	5.692	0.00	14.18
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	5.915	0.00	9.13
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	5.915	0.00	14.80
30.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.66	0.00	0.034	0.000	5.915	0.00	14.53
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	6.110	0.00	9.34
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	6.110	0.00	15.03
35.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.67	0.00	0.035	0.000	6.110	0.00	14.84
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	6.284	0.00	9.53
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	6.284	0.00	15.23
40.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.68	0.00	0.035	0.000	6.284	0.00	15.11
41.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	6.317	0.00	1.91
41.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	6.317	0.00	3.05
41.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.34	0.00	0.036	0.000	6.317	0.00	3.03
45.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	6.442	0.00	7.76
45.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	6.442	0.00	12.33
45.00	Reinforcing channels	Yes	4.00	0.000	2.00	1.35	0.00	0.036	0.000	6.442	0.00	12.29
48.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	6.530	0.00	5.88
48.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	6.530	0.00	9.31
48.00	Reinforcing channels	Yes	3.00	0.000	2.00	1.02	0.00	0.037	0.000	6.530	0.00	9.30
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	6.586	0.00	3.94
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	6.586	0.00	6.23
50.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.68	0.00	0.037	0.000	6.586	0.00	6.23
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	6.720	0.00	10.00
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	6.720	0.00	15.73
55.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.71	0.00	0.037	0.000	6.720	0.00	15.79
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	6.844	0.00	10.13
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	6.844	0.00	15.87
60.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.72	0.00	0.038	0.000	6.844	0.00	15.98
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	6.960	0.00	10.25
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	6.960	0.00	16.00
65.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.73	0.00	0.039	0.000	6.960	0.00	16.15
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	7.070	0.00	10.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	7.070	0.00	16.12

Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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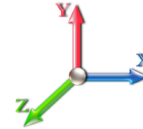


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
70.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.73	0.00	0.040	0.000	7.070	0.00	16.32
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	7.173	0.00	10.48
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	7.173	0.00	16.24
75.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.74	0.00	0.041	0.000	7.173	0.00	16.48
80.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	7.271	0.00	10.58
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	7.271	0.00	16.35
80.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.74	0.00	0.042	0.000	7.271	0.00	16.62
81.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	7.290	0.00	2.12
81.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	7.290	0.00	3.27
81.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.35	0.00	0.043	0.000	7.290	0.00	3.33
85.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	7.365	0.00	8.54
85.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	7.365	0.00	13.16
85.00	Reinforcing channels	Yes	4.00	0.000	2.00	1.40	0.00	0.043	0.000	7.365	0.00	13.41
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	7.454	0.00	10.77
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	7.454	0.00	16.56
90.00	Reinforcing channels	Yes	5.00	0.000	2.00	1.75	0.00	0.044	0.000	7.454	0.00	16.90
91.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	7.471	0.00	2.16
91.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	7.471	0.00	3.32
91.00	Reinforcing channels	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	7.471	0.00	1.50
95.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	7.539	0.00	8.69
95.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	7.539	0.00	13.32
95.00	Reinforcing channels	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	7.539	0.00	6.04
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.621	0.00	10.95
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.621	0.00	16.74
100.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.621	0.00	7.63
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.700	0.00	11.03
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.700	0.00	16.83
105.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.700	0.00	7.70
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.775	0.00	11.11
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.775	0.00	16.92
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.848	0.00	11.19
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.848	0.00	17.00
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.919	0.00	11.26
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.919	0.00	17.08
125.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.987	0.00	11.34
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	7.987	0.00	17.15
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.054	0.00	11.41
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.054	0.00	17.23
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.118	0.00	11.47
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.118	0.00	17.30
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.180	0.00	11.54
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.180	0.00	17.37
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.241	0.00	11.60
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.241	0.00	17.43
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.300	0.00	11.66
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.300	0.00	17.50
155.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.357	0.00	11.72

Linear Appurtenance Segment Forces (Factored)

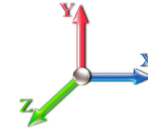
Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.357	0.00	17.56
159.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	8.402	0.00	9.42
159.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	8.402	0.00	14.09
160.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.414	0.00	2.36
160.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	8.414	0.00	3.53
165.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.468	0.00	11.84
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.468	0.00	17.69
170.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.522	0.00	11.89
170.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.522	0.00	17.75
173.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	8.553	0.00	7.16
173.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	8.553	0.00	10.67
175.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.574	0.00	4.78
175.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	8.574	0.00	7.12
180.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.625	0.00	12.00
180.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.625	0.00	17.86
185.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.675	0.00	12.05
185.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.675	0.00	17.91
190.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.724	0.00	12.10
190.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.724	0.00	17.97
195.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.771	0.00	12.15
195.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	8.771	0.00	18.02
Totals:											0.0	1,310.4

Calculated Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 38
	Struct Class: II	



185.00	-8.79	-1.93	0.00	-18.56	0.00	18.56	871.37	205.83	405.06	423.57	31.62	-1.709	0.000	0.054
190.00	-8.06	-1.78	0.00	-8.91	0.00	8.91	871.37	205.83	405.06	423.57	33.42	-1.722	0.000	0.030
195.00	0.00	-1.54	0.00	0.00	0.00	0.00	871.37	205.83	405.06	423.57	35.23	-1.726	0.000	0.000

Seismic Segment Forces (Factored)

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Ev + 1.0Eh

Iterations 22

Gust Response Factor 1.10

Sds 0.20

Ss 0.19

Dead Load Factor 1.20 **Seismic Load Factor** 1.00

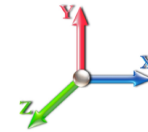
Sd1 0.09

S1 0.05

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.30

SA 0.03

Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		1676.7	2.50	67.97	0.01	
10.00		1648.7	7.50	66.83	0.08	
15.00	RB1	1620.6	12.50	65.69	0.20	
18.00	Top - Section 1	958.93	16.50	38.87	0.12	
20.00		553.79	19.00	22.45	0.05	
25.00		1367.6	22.50	55.44	0.47	
30.00		1343.5	27.50	54.46	0.68	
35.00		1319.5	32.50	53.49	0.91	
40.00		1295.5	37.50	52.51	1.17	
41.00	Bot - Section 3	256.21	40.50	10.39	0.05	
45.00		1900.7	43.00	77.04	3.31	
48.00	Top - Section 2	1405.3	46.50	56.96	2.12	
50.00		502.15	49.00	20.35	0.30	
55.00		1238.5	52.50	50.20	2.10	
60.00		1214.5	57.50	49.23	2.42	
65.00		1190.4	62.50	48.25	2.74	
70.00		1166.4	67.50	47.28	3.07	
75.00		1142.3	72.50	46.30	3.40	
80.00		1118.3	77.50	45.33	3.72	
81.00	Top - Section 3	220.78	80.50	8.95	0.16	
85.00	Bot - Section 5	873.49	83.00	35.41	2.61	
90.00		1978.3	87.50	80.19	14.86	
91.00	Top - Section 4	389.89	90.50	15.80	0.62	
95.00	RT1	847.16	93.00	34.34	3.08	
100.00		1037.3	97.50	42.05	5.07	
105.00		1013.2	102.50	41.07	5.35	
110.00		989.22	107.50	40.10	5.61	
115.00		965.17	112.50	39.12	5.85	
120.00		941.12	117.50	38.15	6.06	
125.00		917.08	122.50	37.17	6.26	
130.00	Bot - Section 6	893.03	127.50	36.20	6.43	
135.00	Top - Section 5	1575.8	132.50	63.87	21.62	
140.00	Top - Section 6	860.12	137.50	34.86	6.94	
145.00		618.18	142.50	25.06	3.85	
150.00		602.15	147.50	24.41	3.91	
155.00		586.12	152.50	23.76	3.96	
159.00	Appurtenance(s)	2696.5	157.00	109.30	88.87	
160.00		97.42	159.50	3.95	0.12	
165.00		477.49	162.50	19.35	2.99	
170.00		461.46	167.50	18.70	2.96	
173.00	Appurtenance(s)	3408.1	171.50	138.14	169.39	
175.00		169.91	174.00	6.89	0.43	
180.00	Top - Section 7	413.56	177.50	16.76	2.67	
185.00		445.21	182.50	18.05	3.27	
190.00		445.21	187.50	18.05	3.46	

Seismic Segment Forces (Factored)

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 40
	Struct Class: II	



195.00	Appurtenance(s)	4483.7	192.50	181.74	369.37	
	Totals:	51,327.2		2,080.5	772.7	Total Wind: 41,694.1

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021	
Site Name: Lisbon	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 42



180.00	-6.61	-0.40	0.00	-5.96	0.00	5.96	871.37	205.83	405.06	423.57	3.62	-0.23	0.022
185.00	-6.08	-0.40	0.00	-3.95	0.00	3.95	871.37	205.83	405.06	423.57	3.86	-0.23	0.016
190.00	-5.54	-0.39	0.00	-1.96	0.00	1.96	871.37	205.83	405.06	423.57	4.10	-0.24	0.011
195.00	0.00	-0.37	0.00	0.00	0.00	0.00	871.37	205.83	405.06	423.57	4.35	-0.24	0.000

Seismic Segment Forces (Factored)

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0Ev + 1.0Eh

Iterations 22

Gust Response Factor 1.10

Sds 0.20

Ss 0.19

Dead Load Factor 0.90 **Seismic Load Factor** 1.00

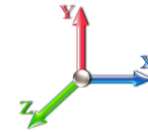
Sd1 0.09

S1 0.05

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.30

SA 0.03

Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
5.00		1632.4	2.50	66.17	0.01	
10.00		1604.3	7.50	65.03	0.07	
15.00	RB1	1576.3	12.50	63.89	0.20	
18.00	Top - Section 1	932.33	16.50	37.79	0.12	
20.00		536.06	19.00	21.73	0.05	
25.00		1323.3	22.50	53.64	0.45	
30.00		1299.2	27.50	52.66	0.65	
35.00		1275.2	32.50	51.69	0.87	
40.00		1251.1	37.50	50.71	1.12	
41.00	Bot - Section 3	247.35	40.50	10.03	0.05	
45.00		1865.3	43.00	75.61	3.27	
48.00	Top - Section 2	1378.7	46.50	55.89	2.09	
50.00		484.42	49.00	19.64	0.29	
55.00		1194.2	52.50	48.41	2.00	
60.00		1170.1	57.50	47.43	2.30	
65.00		1146.1	62.50	46.46	2.61	
70.00		1122.0	67.50	45.48	2.92	
75.00		1098.0	72.50	44.51	3.22	
80.00		1073.9	77.50	43.53	3.52	
81.00	Top - Section 3	211.91	80.50	8.59	0.15	
85.00	Bot - Section 5	838.03	83.00	33.97	2.46	
90.00		1933.9	87.50	78.39	14.56	
91.00	Top - Section 4	381.02	90.50	15.44	0.60	
95.00	RT1	811.70	93.00	32.90	2.90	
100.00		992.98	97.50	40.25	4.76	
105.00		968.94	102.50	39.27	5.01	
110.00		944.89	107.50	38.30	5.24	
115.00		920.84	112.50	37.32	5.46	
120.00		896.80	117.50	36.35	5.64	
125.00		872.75	122.50	35.38	5.81	
130.00	Bot - Section 6	848.70	127.50	34.40	5.95	
135.00	Top - Section 5	1531.5	132.50	62.08	20.93	
140.00	Top - Section 6	815.79	137.50	33.07	6.40	
145.00		573.85	142.50	23.26	3.40	
150.00		557.82	147.50	22.61	3.44	
155.00		541.79	152.50	21.96	3.47	
159.00	Appurtenance(s)	2661.0	157.00	107.86	88.73	
160.00		92.38	159.50	3.74	0.11	
165.00		452.30	162.50	18.33	2.75	
170.00		436.27	167.50	17.68	2.71	
173.00	Appurtenance(s)	3393.0	171.50	137.53	172.13	
175.00		161.42	174.00	6.54	0.40	
180.00	Top - Section 7	392.33	177.50	15.90	2.47	
185.00		423.98	182.50	17.19	3.04	
190.00		423.98	187.50	17.19	3.21	

Seismic Segment Forces (Factored)

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 44



195.00	Appurtenance(s)	4462.4	192.50	180.88	375.12	
	Totals:	49,753.6		2,016.7	772.7	Total Wind: 41,694.1

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT00167-S-SBA **Code:** EIA/TIA-222-H 5/19/2021
Site Name: Lisbon **Exposure:** C
Height: 195.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 1.1 **Topography:** 1 **Struct Class:** II Page: 45



Load Case: 0.9D + 1.0Ev + 1.0Eh

Iterations 22

Gust Response Factor 1.10

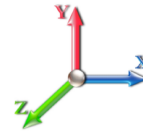
Sds 0.20

Ss 0.19

Dead Load Factor 0.90 **Seismic Load Factor** 1.00 **Sd1** 0.09

S1 0.05

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.30 **SA** 0.03 **Seismic Importance Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-47.27	-0.77	0.00	-138.05	0.00	138.05	6497.76	1801.35	9574.51	8573.64		0.00	0.00	0.023
5.00	-45.72	-0.78	0.00	-134.18	0.00	134.18	6432.14	1767.96	9222.85	8328.66		0.00	0.00	0.023
10.00	-44.20	-0.78	0.00	-130.29	0.00	130.29	6364.44	1734.57	8877.76	8084.28		0.01	-0.01	0.023
15.00	-42.70	-0.78	0.00	-126.39	0.00	126.39	6294.68	1701.18	8539.25	7840.66		0.02	-0.01	0.018
18.00	-41.82	-0.78	0.00	-124.05	0.00	124.05	6251.82	1681.14	8339.30	7694.92		0.03	-0.02	0.018
18.00	-41.82	-0.78	0.00	-124.05	0.00	124.05	5035.78	1461.72	7258.43	6211.14		0.03	-0.02	0.020
20.00	-41.31	-0.79	0.00	-122.48	0.00	122.48	5016.94	1450.12	7143.68	6138.49		0.04	-0.02	0.022
25.00	-40.05	-0.79	0.00	-118.56	0.00	118.56	4968.35	1421.12	6860.79	5956.70		0.06	-0.02	0.022
30.00	-38.81	-0.79	0.00	-114.62	0.00	114.62	4917.65	1392.11	6583.61	5774.82		0.08	-0.03	0.021
35.00	-37.60	-0.79	0.00	-110.68	0.00	110.68	4864.84	1363.11	6312.15	5593.00		0.11	-0.03	0.021
40.00	-36.41	-0.79	0.00	-106.72	0.00	106.72	4809.92	1334.11	6046.41	5411.42		0.14	-0.03	0.021
41.00	-36.17	-0.79	0.00	-105.93	0.00	105.93	4798.68	1328.31	5993.94	5375.14		0.15	-0.03	0.021
45.00	-34.41	-0.79	0.00	-102.77	0.00	102.77	4752.88	1305.11	5786.38	5230.21		0.18	-0.04	0.020
48.00	-33.10	-0.79	0.00	-100.40	0.00	100.40	4754.71	1306.02	5794.50	5235.93		0.20	-0.04	0.020
50.00	-32.64	-0.79	0.00	-98.83	0.00	98.83	4731.34	1294.42	5692.02	5163.58		0.22	-0.04	0.020
55.00	-31.51	-0.79	0.00	-94.88	0.00	94.88	4671.41	1265.42	5439.81	4983.15		0.27	-0.05	0.019
60.00	-30.39	-0.79	0.00	-90.94	0.00	90.94	4609.37	1236.42	5193.31	4803.47		0.32	-0.05	0.019
65.00	-29.30	-0.79	0.00	-87.00	0.00	87.00	4545.22	1207.41	4952.53	4624.69		0.38	-0.06	0.019
70.00	-28.23	-0.78	0.00	-83.07	0.00	83.07	4478.96	1178.41	4717.47	4446.98		0.44	-0.06	0.018
75.00	-27.19	-0.78	0.00	-79.15	0.00	79.15	4410.58	1149.41	4488.12	4270.48		0.51	-0.07	0.018
80.00	-26.16	-0.78	0.00	-75.23	0.00	75.23	4340.09	1120.41	4264.49	4095.36		0.58	-0.07	0.018
81.00	-25.96	-0.78	0.00	-74.45	0.00	74.45	4325.74	1114.61	4220.44	4060.52		0.60	-0.07	0.018
81.00	-25.96	-0.78	0.00	-74.45	0.00	74.45	3843.52	967.95	3665.12	3607.87		0.60	-0.07	0.020
85.00	-25.16	-0.78	0.00	-71.33	0.00	71.33	3789.25	947.80	3514.12	3482.28		0.66	-0.08	0.019
90.00	-23.33	-0.76	0.00	-67.44	0.00	67.44	3719.86	922.61	3329.84	3326.92		0.75	-0.08	0.019
91.00	-22.97	-0.76	0.00	-66.68	0.00	66.68	3750.02	933.48	3408.76	3393.74		0.76	-0.08	0.019
95.00	-22.19	-0.76	0.00	-63.63	0.00	63.63	3693.87	913.33	3263.20	3270.16		0.84	-0.09	0.018
100.00	-21.25	-0.76	0.00	-59.82	0.00	59.82	3622.15	888.15	3085.71	3117.47		0.93	-0.09	0.025
105.00	-20.32	-0.75	0.00	-56.04	0.00	56.04	3548.72	862.96	2913.18	2966.89		1.03	-0.10	0.025
110.00	-19.42	-0.75	0.00	-52.28	0.00	52.28	3473.57	837.77	2745.61	2818.54		1.14	-0.11	0.024
115.00	-18.54	-0.74	0.00	-48.53	0.00	48.53	3396.72	812.59	2583.01	2672.54		1.26	-0.12	0.024
120.00	-17.68	-0.74	0.00	-44.81	0.00	44.81	3318.16	787.40	2425.37	2529.02		1.38	-0.12	0.023
125.00	-16.85	-0.73	0.00	-41.12	0.00	41.12	3226.71	762.22	2272.69	2379.87		1.52	-0.13	0.023
130.00	-16.04	-0.73	0.00	-37.45	0.00	37.45	3120.09	737.03	2124.98	2224.41		1.66	-0.14	0.022
135.00	-14.58	-0.71	0.00	-33.81	0.00	33.81	3080.81	727.75	2071.81	2168.45		1.81	-0.15	0.020
140.00	-13.80	-0.70	0.00	-30.28	0.00	30.28	2974.19	702.56	1930.89	2020.17		1.97	-0.16	0.020
140.00	-13.80	-0.70	0.00	-30.28	0.00	30.28	1787.24	463.02	1277.34	1223.14		1.97	-0.16	0.032
145.00	-13.25	-0.70	0.00	-26.79	0.00	26.79	1745.97	446.48	1187.73	1151.90		2.14	-0.16	0.031
150.00	-12.71	-0.69	0.00	-23.31	0.00	23.31	1703.02	429.95	1101.38	1081.63		2.31	-0.17	0.029
155.00	-12.19	-0.69	0.00	-19.84	0.00	19.84	1658.40	413.41	1018.29	1012.45		2.50	-0.18	0.027
159.00	-9.68	-0.59	0.00	-17.08	0.00	17.08	1621.51	400.18	954.16	957.99		2.66	-0.19	0.024
160.00	-9.59	-0.59	0.00	-16.49	0.00	16.49	1612.12	396.87	938.45	944.50		2.70	-0.19	0.023
165.00	-9.16	-0.59	0.00	-13.51	0.00	13.51	1564.16	380.34	861.88	877.89		2.91	-0.20	0.021
170.00	-8.74	-0.59	0.00	-10.55	0.00	10.55	1514.53	363.80	788.56	812.74		3.12	-0.21	0.019
173.00	-5.54	-0.41	0.00	-8.79	0.00	8.79	1483.95	353.88	746.14	774.41		3.26	-0.22	0.015
175.00	-5.39	-0.40	0.00	-7.98	0.00	7.98	1463.23	347.27	718.50	749.18		3.35	-0.22	0.014
180.00	-5.01	-0.40	0.00	-5.95	0.00	5.95	1400.09	330.73	651.70	682.38		3.58	-0.23	0.012

Calculated Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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180.00	-5.01	-0.40	0.00	-5.95	0.00	5.95	871.37	205.83	405.06	423.57	3.58	-0.23	0.020
185.00	-4.61	-0.40	0.00	-3.95	0.00	3.95	871.37	205.83	405.06	423.57	3.82	-0.23	0.015
190.00	-4.20	-0.39	0.00	-1.96	0.00	1.96	871.37	205.83	405.06	423.57	4.07	-0.23	0.009
195.00	0.00	-0.38	0.00	0.00	0.00	0.00	871.37	205.83	405.06	423.57	4.31	-0.23	0.000

Wind Loading - Shaft

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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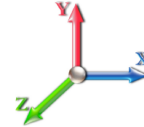


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

Dead Load Factor 1.00

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	6.594	7.25	300.46	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	6.594	7.25	294.93	0.730	0.000	5.00	27.038	19.74	143.2	0.0	1499.5
10.00		1.00	0.85	6.594	7.25	289.40	0.730	0.000	5.00	26.536	19.37	140.5	0.0	1471.4
15.00	RB1	1.00	0.85	6.594	7.25	283.87	0.730	0.000	5.00	26.034	19.00	137.9	0.0	1443.3
18.00	Top - Section 1	1.00	0.88	6.844	7.53	285.79	0.730	0.000	3.00	15.379	11.23	84.5	0.0	852.5
20.00		1.00	0.90	6.997	7.70	286.70	0.730	0.000	2.00	10.152	7.41	57.0	0.0	482.9
25.00		1.00	0.95	7.334	8.07	287.68	0.730	0.000	5.00	25.029	18.27	147.4	0.0	1190.3
30.00		1.00	0.98	7.621	8.38	287.31	0.730	0.000	5.00	24.526	17.90	150.1	0.0	1166.3
35.00		1.00	1.01	7.872	8.66	285.97	0.730	0.000	5.00	24.024	17.54	151.9	0.0	1142.2
40.00		1.00	1.04	8.096	8.91	283.89	0.730	0.000	5.00	23.521	17.17	152.9	0.0	1118.2
41.00	Bot - Section 3	1.00	1.05	8.139	8.95	283.40	0.730	0.000	1.00	4.644	3.39	30.3	0.0	220.8
45.00		1.00	1.07	8.300	9.13	281.22	0.730	0.000	4.00	18.629	13.60	124.2	0.0	1758.9
48.00	Top - Section 2	1.00	1.08	8.413	9.25	279.39	0.730	0.000	3.00	13.761	10.05	93.0	0.0	1299.0
50.00		1.00	1.09	8.486	9.33	282.05	0.730	0.000	2.00	9.073	6.62	61.8	0.0	431.2
55.00		1.00	1.12	8.658	9.52	278.55	0.730	0.000	5.00	22.331	16.30	155.3	0.0	1061.2
60.00		1.00	1.14	8.818	9.70	274.72	0.730	0.000	5.00	21.829	15.94	154.6	0.0	1037.2
65.00		1.00	1.16	8.968	9.86	270.59	0.730	0.000	5.00	21.327	15.57	153.6	0.0	1013.1
70.00		1.00	1.17	9.109	10.02	266.21	0.730	0.000	5.00	20.824	15.20	152.3	0.0	989.1
75.00		1.00	1.19	9.242	10.17	261.60	0.730	0.000	5.00	20.322	14.83	150.8	0.0	965.0
80.00		1.00	1.21	9.368	10.31	256.79	0.730	0.000	5.00	19.819	14.47	149.1	0.0	941.0
81.00	Top - Section 3	1.00	1.21	9.393	10.33	255.81	0.730	0.000	1.00	3.904	2.85	29.4	0.0	185.3
85.00	Bot - Section 5	1.00	1.22	9.489	10.44	251.80	0.730	0.000	4.00	15.413	11.25	117.4	0.0	731.6
90.00		1.00	1.24	9.604	10.56	246.64	0.730	0.000	5.00	19.132	13.97	147.5	0.0	1801.0
91.00	Top - Section 4	1.00	1.24	9.626	10.59	245.59	0.730	0.000	1.00	3.766	2.75	29.1	0.0	354.4
95.00	RT1	1.00	1.25	9.713	10.68	245.58	0.730	0.000	4.00	14.863	10.85	115.9	0.0	705.3
100.00		1.00	1.27	9.819	10.80	240.16	0.730	0.000	5.00	18.127	13.23	142.9	0.0	860.0
105.00		1.00	1.28	9.920	10.91	234.61	0.730	0.000	5.00	17.625	12.87	140.4	0.0	835.9
110.00		1.00	1.29	10.018	11.02	228.94	0.730	0.000	5.00	17.122	12.50	137.7	0.0	811.9
115.00		1.00	1.30	10.112	11.12	223.17	0.730	0.000	5.00	16.620	12.13	135.0	0.0	787.9
120.00		1.00	1.32	10.203	11.22	217.29	0.730	0.000	5.00	16.117	11.77	132.1	0.0	763.8
125.00		1.00	1.33	10.291	11.32	211.31	0.730	0.000	5.00	15.615	11.40	129.0	0.0	739.8
130.00	Bot - Section 6	1.00	1.34	10.377	11.41	205.25	0.730	0.000	5.00	15.112	11.03	125.9	0.0	715.7
135.00	Top - Section 5	1.00	1.35	10.459	11.51	199.10	0.730	0.000	5.00	14.927	10.90	125.4	0.0	1398.5
140.00	Top - Section 6	1.00	1.36	10.540	11.59	197.29	0.730	0.000	5.00	14.425	10.53	122.1	0.0	682.8
145.00		1.00	1.37	10.618	11.68	191.00	0.730	0.000	5.00	13.922	10.16	118.7	0.0	440.9
150.00		1.00	1.38	10.694	11.76	184.64	0.730	0.000	5.00	13.420	9.80	115.2	0.0	424.8
155.00		1.00	1.39	10.768	11.84	178.21	0.730	0.000	5.00	12.918	9.43	111.7	0.0	408.8
159.00	Appurtenance(s)	1.00	1.40	10.826	11.91	173.01	0.730	0.000	4.00	9.972	7.28	86.7	0.0	315.5
160.00		1.00	1.40	10.840	11.92	171.71	0.730	0.000	1.00	2.443	1.78	21.3	0.0	77.3
165.00		1.00	1.41	10.911	12.00	165.15	0.730	0.000	5.00	11.913	8.70	104.4	0.0	376.7
170.00		1.00	1.42	10.979	12.08	158.53	0.730	0.000	5.00	11.410	8.33	100.6	0.0	360.7
173.00	Appurtenance(s)	1.00	1.42	11.020	12.12	154.53	0.730	0.000	3.00	6.605	4.82	58.4	0.0	208.7
175.00		1.00	1.42	11.047	12.15	151.86	0.730	0.000	2.00	4.303	3.14	38.2	0.0	135.9
180.00	Top - Section 7	1.00	1.43	11.112	12.22	145.13	0.730	0.000	5.00	10.405	7.60	92.9	0.0	328.6
185.00		1.00	1.44	11.177	12.29	145.55	0.730	0.000	5.00	10.154	7.41	91.1	0.0	360.3
190.00		1.00	1.45	11.240	12.36	145.96	0.730	0.000	5.00	10.154	7.41	91.6	0.0	360.3
195.00	Appurtenance(s)	1.00	1.46	11.301	12.43	146.36	0.730	0.000	5.00	10.154	7.41	92.1	0.0	360.3

Wind Loading - Shaft

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	
		Struct Class:	II	Page: 48



Totals:	195.00	5,143.2	35,616.0
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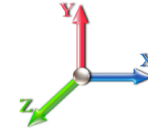
Discrete Appurtenance Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021	
Site Name: Lisbon	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 49



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	Ericsson KRY 112 144/1	3	11.301	12.431	0.52	0.75	0.65	33.00	0.000	0.000	8.03	0.00	0.00
2	195.00	AIR6449 B41	3	11.301	12.431	0.53	0.75	9.03	309.00	0.000	0.000	112.20	0.00	0.00
3	195.00	APXVAALL24-43-U-NA20	3	11.301	12.431	0.55	0.75	33.24	297.00	0.000	0.000	413.27	0.00	0.00
4	195.00	APX16DWV-16DWVS-E-A	3	11.301	12.431	0.46	0.75	9.22	122.10	0.000	0.000	114.63	0.00	0.00
5	195.00	RMQP-4096-HK	1	11.301	12.431	1.00	1.00	51.70	2645.00	0.000	0.000	642.70	0.00	0.00
6	195.00	Ericsson 4449 B71 + B85	3	11.301	12.431	0.50	0.75	2.97	219.60	0.000	0.000	36.92	0.00	0.00
7	195.00	Ericsson 4424 B25	3	11.301	12.431	0.50	0.75	3.09	264.00	0.000	0.000	38.42	0.00	0.00
8	195.00	Ericsson 4415 B66A	3	11.301	12.431	0.50	0.75	2.47	148.80	0.000	0.000	30.73	0.00	0.00
9	173.00	ALU TD-RRH8x20-25	3	11.020	12.122	0.55	0.80	6.71	210.00	0.000	0.000	81.30	0.00	0.00
10	173.00	DT465B-2XR	3	11.020	12.122	0.66	0.80	18.13	174.00	0.000	0.000	219.74	0.00	0.00
11	173.00	RFS ACU-A20-N RET	4	11.020	12.122	0.40	0.80	0.22	4.00	0.000	0.000	2.72	0.00	0.00
12	173.00	ALU 800 MHz Filter	3	11.020	12.122	0.40	0.80	0.50	30.00	0.000	0.000	6.11	0.00	0.00
13	173.00	ALU 1900 MHz RRH	3	11.020	12.122	0.40	0.80	4.56	132.00	0.000	0.000	55.28	0.00	0.00
14	173.00	APXVSPP18-C-A20	3	11.020	12.122	0.66	0.80	15.98	171.00	0.000	0.000	193.66	0.00	0.00
15	173.00	Sector Frame-Pipe/Rod	3	11.020	12.122	0.60	0.80	46.80	2100.00	0.000	0.000	567.31	0.00	0.00
16	173.00	ALU 800 MHz RRH	6	11.020	12.122	0.40	0.80	5.98	318.00	0.000	0.000	72.44	0.00	0.00
17	159.00	Samsung B5/B13	3	10.826	11.908	0.54	0.80	3.01	210.90	0.000	0.000	35.81	0.00	0.00
18	159.00	Samsung VZS01	3	10.826	11.908	0.55	0.80	7.12	261.30	0.000	0.000	84.80	0.00	0.00
19	159.00	Samsung B2/B66A	3	10.826	11.908	0.54	0.80	3.01	253.20	0.000	0.000	35.81	0.00	0.00
20	159.00	BXA-70080-4BF	3	10.826	11.908	0.70	0.80	7.52	36.00	0.000	0.000	89.54	0.00	0.00
21	159.00	Low Profile Platform-flat	1	10.826	11.908	1.00	1.00	25.00	1200.00	0.000	0.000	297.71	0.00	0.00
22	159.00	SBNHH-1D65B	6	10.826	11.908	0.66	0.80	32.51	240.00	0.000	0.000	387.14	0.00	0.00
23	159.00	Rfs Celwave	2	10.826	11.908	0.57	0.80	5.45	37.80	0.000	0.000	64.93	0.00	0.00
Totals:									9,416.70			3,591.17		

Total Applied Force Summary

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

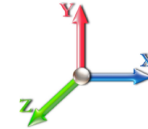


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		143.18	1647.22	0.00	0.00
10.00		140.52	1619.16	0.00	0.00
15.00		137.86	1591.11	0.00	0.00
18.00		84.51	941.20	0.00	0.00
20.00		57.04	541.97	0.00	0.00
25.00		147.39	1338.09	0.00	0.00
30.00		150.08	1314.04	0.00	0.00
35.00		151.86	1289.99	0.00	0.00
40.00		152.92	1265.95	0.00	0.00
41.00		30.35	250.30	0.00	0.00
45.00		124.15	1877.13	0.00	0.00
48.00		92.96	1387.65	0.00	0.00
50.00		61.83	490.33	0.00	0.00
55.00		155.25	1208.99	0.00	0.00
60.00		154.56	1184.95	0.00	0.00
65.00		153.57	1160.90	0.00	0.00
70.00		152.31	1136.85	0.00	0.00
75.00		150.81	1112.81	0.00	0.00
80.00		149.10	1088.76	0.00	0.00
81.00		29.44	214.87	0.00	0.00
85.00		117.44	849.85	0.00	0.00
90.00		147.54	1948.75	0.00	0.00
91.00		29.11	383.98	0.00	0.00
95.00		115.93	823.52	0.00	0.00
100.00		142.92	1007.76	0.00	0.00
105.00		140.40	983.71	0.00	0.00
110.00		137.74	959.67	0.00	0.00
115.00		134.95	935.62	0.00	0.00
120.00		132.05	911.57	0.00	0.00
125.00		129.04	887.52	0.00	0.00
130.00		125.92	863.48	0.00	0.00
135.00		125.37	1546.28	0.00	0.00
140.00		122.08	830.57	0.00	0.00
145.00		118.70	588.63	0.00	0.00
150.00		115.24	572.59	0.00	0.00
155.00		111.69	556.56	0.00	0.00
159.00	(21) attachments	1082.43	2672.91	0.00	0.00
160.00		21.26	94.06	0.00	0.00
165.00		104.37	460.70	0.00	0.00
170.00		100.60	444.67	0.00	0.00
173.00	(28) attachments	1256.99	3398.11	0.00	0.00
175.00		38.17	164.25	0.00	0.00
180.00		92.85	399.41	0.00	0.00
185.00		91.13	431.06	0.00	0.00
190.00		91.65	431.06	0.00	0.00
195.00	(22) attachments	1489.04	4469.56	0.00	0.00

Total Applied Force Summary

Structure:	CT00167-S-SBA	Code:	EIA/TIA-222-H	5/19/2021
Site Name:	Lisbon	Exposure:	C	
Height:	195.00 (ft)	Crest Height:	0.00	
Base Elev:	0.000 (ft)	Site Class:	D - Stiff Soil	
Gh:	1.1	Topography:	1	
		Struct Class:	II	Page: 51



Totals:	8,734.32	50,278.12	0.00	0.00
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Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA

Code: EIA/TIA-222-H

5/19/2021

Site Name: Lisbon

Exposure: C

Height: 195.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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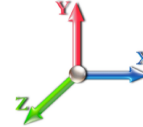


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	1.37
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	5.20
10.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	1.37
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	6.594	0.00	5.20
18.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	6.844	0.00	0.82
18.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.033	0.000	6.844	0.00	3.12
18.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.50	0.00	0.033	0.000	6.844	0.00	0.00
20.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	6.997	0.00	0.55
20.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.033	0.000	6.997	0.00	2.08
20.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.33	0.00	0.033	0.000	6.997	0.00	0.00
25.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	7.334	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.033	0.000	7.334	0.00	5.20
25.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.033	0.000	7.334	0.00	0.00
30.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	7.621	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.034	0.000	7.621	0.00	5.20
30.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.034	0.000	7.621	0.00	0.00
35.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	7.872	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	7.872	0.00	5.20
35.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.035	0.000	7.872	0.00	0.00
40.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	8.096	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.035	0.000	8.096	0.00	5.20
40.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.035	0.000	8.096	0.00	0.00
41.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	8.139	0.00	0.27
41.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.036	0.000	8.139	0.00	1.04
41.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.17	0.00	0.036	0.000	8.139	0.00	0.00
45.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	8.300	0.00	1.09
45.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.036	0.000	8.300	0.00	4.16
45.00	Reinforcing channels	Yes	4.00	0.000	2.00	0.67	0.00	0.036	0.000	8.300	0.00	0.00
48.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	8.413	0.00	0.82
48.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.037	0.000	8.413	0.00	3.12
48.00	Reinforcing channels	Yes	3.00	0.000	2.00	0.50	0.00	0.037	0.000	8.413	0.00	0.00
50.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	8.486	0.00	0.55
50.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.037	0.000	8.486	0.00	2.08
50.00	Reinforcing channels	Yes	2.00	0.000	2.00	0.33	0.00	0.037	0.000	8.486	0.00	0.00
55.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	8.658	0.00	1.37
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.037	0.000	8.658	0.00	5.20
55.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.037	0.000	8.658	0.00	0.00
60.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	8.818	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.038	0.000	8.818	0.00	5.20
60.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.038	0.000	8.818	0.00	0.00
65.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	8.968	0.00	1.37
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.039	0.000	8.968	0.00	5.20
65.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.039	0.000	8.968	0.00	0.00
70.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	9.109	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.040	0.000	9.109	0.00	5.20

Linear Appurtenance Segment Forces (Factored)

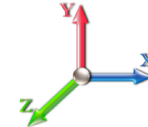
Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
70.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.040	0.000	9.109	0.00	0.00
75.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	9.242	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.041	0.000	9.242	0.00	5.20
75.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.041	0.000	9.242	0.00	0.00
80.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	9.368	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	9.368	0.00	5.20
80.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.042	0.000	9.368	0.00	0.00
81.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	9.393	0.00	0.27
81.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.043	0.000	9.393	0.00	1.04
81.00	Reinforcing channels	Yes	1.00	0.000	2.00	0.17	0.00	0.043	0.000	9.393	0.00	0.00
85.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	9.489	0.00	1.09
85.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.043	0.000	9.489	0.00	4.16
85.00	Reinforcing channels	Yes	4.00	0.000	2.00	0.67	0.00	0.043	0.000	9.489	0.00	0.00
90.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	9.604	0.00	1.37
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	9.604	0.00	5.20
90.00	Reinforcing channels	Yes	5.00	0.000	2.00	0.83	0.00	0.044	0.000	9.604	0.00	0.00
91.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	9.626	0.00	0.27
91.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	9.626	0.00	1.04
91.00	Reinforcing channels	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	9.626	0.00	0.00
95.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	9.713	0.00	1.09
95.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	9.713	0.00	4.16
95.00	Reinforcing channels	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	9.713	0.00	0.00
100.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.819	0.00	1.37
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.819	0.00	5.20
100.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.819	0.00	0.00
105.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.920	0.00	1.37
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.920	0.00	5.20
105.00	Reinforcing channels	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	9.920	0.00	0.00
110.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.018	0.00	1.37
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.018	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.112	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.112	0.00	5.20
120.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.203	0.00	1.37
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.203	0.00	5.20
125.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.291	0.00	1.37
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.291	0.00	5.20
130.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.377	0.00	1.37
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.377	0.00	5.20
135.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.459	0.00	1.37
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.459	0.00	5.20
140.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.540	0.00	1.37
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.540	0.00	5.20
145.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.618	0.00	1.37
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.618	0.00	5.20
150.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.694	0.00	1.37
150.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.694	0.00	5.20
155.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.768	0.00	1.37

Linear Appurtenance Segment Forces (Factored)

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

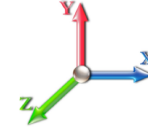


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.768	0.00	5.20
159.00	Safety Cable	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	10.826	0.00	1.09
159.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.000	0.000	10.826	0.00	4.16
160.00	Safety Cable	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	10.840	0.00	0.27
160.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.000	0.000	10.840	0.00	1.04
165.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.911	0.00	1.37
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.911	0.00	5.20
170.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.979	0.00	1.37
170.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	10.979	0.00	5.20
173.00	Safety Cable	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	11.020	0.00	0.82
173.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.000	0.000	11.020	0.00	3.12
175.00	Safety Cable	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.047	0.00	0.55
175.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.000	0.000	11.047	0.00	2.08
180.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.112	0.00	1.37
180.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.112	0.00	5.20
185.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.177	0.00	1.37
185.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.177	0.00	5.20
190.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.240	0.00	1.37
190.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.240	0.00	5.20
195.00	Safety Cable	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.301	0.00	1.37
195.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.000	0.000	11.301	0.00	5.20
Totals:											0.0	256.0

Calculated Forces

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021
Site Name: Lisbon	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 56
	Struct Class: II	



185.00	-4.86	-1.71	0.00	-16.56	0.00	16.56	871.37	205.83	405.06	423.57	27.13	-1.477	0.000	0.045
190.00	-4.43	-1.60	0.00	-8.02	0.00	8.02	871.37	205.83	405.06	423.57	28.69	-1.488	0.000	0.024
195.00	0.00	-1.49	0.00	0.00	0.00	0.00	871.37	205.83	405.06	423.57	30.25	-1.492	0.000	0.000

Final Analysis Summary

Structure: CT00167-S-SBA	Code: EIA/TIA-222-H	5/19/2021	
Site Name: Lisbon	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 57



Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 124 mph Wind	41.8	0.00	60.27	0.00	0.00	5539.96
0.9D + 1.0W 124 mph Wind	41.8	0.00	45.19	0.00	0.00	5476.00
1.2D + 1.0Di + 1.0Wi 50 mph Wind	10.5	0.00	79.87	0.00	0.00	1363.62
1.2D + 1.0Ev + 1.0Eh	0.8	0.00	62.41	0.00	0.00	139.33
0.9D + 1.0Ev + 1.0Eh	0.8	0.00	47.27	0.00	0.00	138.05
1.0D + 1.0W 60 mph Wind	8.7	0.00	50.28	0.00	0.00	1153.50

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 124 mph Wind	-15.44	-24.05	0.00	-860.29	0.00	-860.29	2974.19	702.56	1930.89	2020.17	140.00	0.715
0.9D + 1.0W 124 mph Wind	-11.09	-23.62	0.00	-842.80	0.00	-842.80	2974.19	702.56	1930.89	2020.17	140.00	0.698
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-27.25	-5.74	0.00	-204.26	0.00	-204.26	2974.19	702.56	1930.89	2020.17	140.00	0.182
1.2D + 1.0Ev + 1.0Eh	-18.22	-0.71	0.00	-30.48	0.00	-30.48	2974.19	702.56	1930.89	2020.17	140.00	0.035
0.9D + 1.0Ev + 1.0Eh	-13.80	-0.70	0.00	-30.28	0.00	-30.28	2974.19	702.56	1930.89	2020.17	140.00	0.032
1.0D + 1.0W 60 mph Wind	-14.59	-5.00	0.00	-178.75	0.00	-178.75	2974.19	702.56	1930.89	2020.17	140.00	0.154

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
15.0	95.0	(6) PLT-C6x10.5 (no hole)	128.6	0.00	27.8	121.8	27.8	5	3	106.4	27.8	4	3	136.36	180.8	180.17	0.757

	Monopole Mat Foundation Design		Date	
			5/19/2021	
	Customer Name:	Verizon	EIA/TIA Standard:	EIA-222-H
	Site Name:		Structure Height (Ft.):	195
	Site Number:	CT00167-S-SBA	Engineer Name:	T. Alajaj
	Engr. Number:	107648	Engineer Login ID:	

Foundation Info Obtained from:

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	60.3	Shear Force (Kips):	41.8
Uplift Force (Kips):	0.0	Moment (Kips-ft):	5541.1

Allowable overstress %: 5.0%

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	8.0	Depth of Base BG (ft.):	12.0
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	4.00
Length of Pad (ft.):	30	Width of Pad (ft.):	30

Final Length of pad (ft) 30.0 Final width of pad (ft): 30.0

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 #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	54	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	10	
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): 31 Qty. of Rebar in Pad (W): 31

Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L): 31 Qty. of Rebar in Pad (W): 31

Apply 1.35 factor for e/w Per G: 1.35

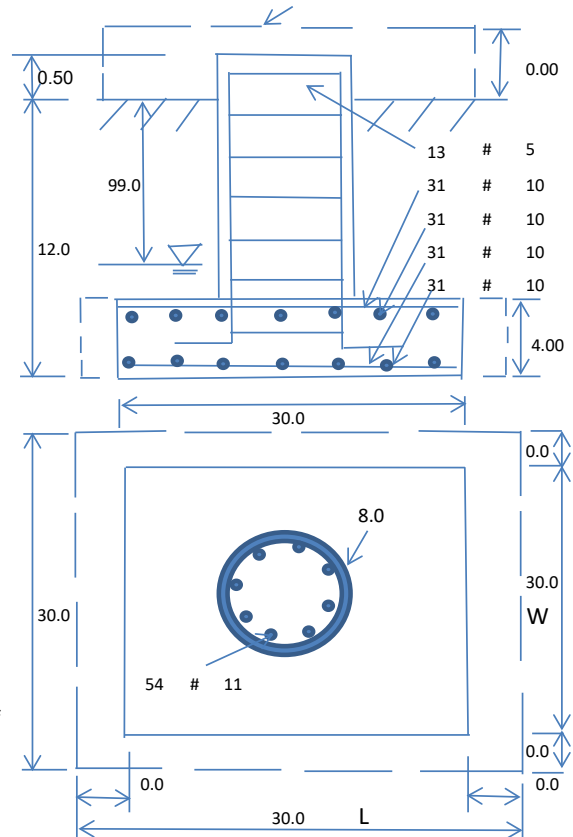
Soil Design Parameters:

Soil Unit Weight (pcf):	125.0	Soil Buoyant Weight:	50.0	Pcf	
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:
Ultimate Bearing Pressure (psf):	8000	Ultimate Skin Friction:	0	Psf	Angle from Botm of Pad:
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Botm of Pad:
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:	1.00		

Foundation Analysis and Design:	Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	6797.88	Total Dry Soil Weight (Kips):	849.73	
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00	
Total Effective Soil Weight (Kips):	849.73	Weight from the Concrete Block at Top (K):	0.00	
Total Dry Concrete Volume (cu. Ft.):	4027.26	Total Dry Concrete Weight (Kips):	604.09	
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00	
Total Effective Concrete Weight (Kips):	604.09	Total Vertical Load on Base (Kips):	1514.12	

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2543	<	Allowable Factored Soil Bearing (psf):	6000	0.42	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	20531.1	>	Design Factored Momont (kips-ft):	6064	0.30	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	3.39					OK!



Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):

0.90

Strength reduction factor (Shear):

0.75

Strength reduction factor (Axial compression):

0.65

Wind Load Factor on Concrete Design:

1.00

Load/
Capacity
Ratio**(1) Concrete Pier:**

Vertical Steel Rebar Area (sq. in./each):

1.56

Tie / Stirrup Area (sq. in./each):

0.31

Calculated Moment Capacity (Mn,Kips-Ft):

15197.3

>

Design Factored Moment (Mu, Kips-F

5896.4

0.39

OK!

Calculated Shear Capacity (Kips):

832.8

>

Design Factored Shear (Kips):

41.8

0.05

OK!

Calculated Tension Capacity (Tn, Kips):

4549.0

>

Design Factored Tension (Tu Kips):

0.0

0.00

OK!

Calculated Compression Capacity (Pn, Kips):

9486.2

>

Design Factored Axial Load (Pu Kips):

60.3

0.01

OK!

Moment & Axial Strength Combination:

0.39

OK!

Check Tie Spacing (Design/Required):

1

OK!

Pier Reinforcement Ratio:

0.012

Reinforcement Ratio is satisfied per ACI

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):

1312.5

>

One-Way Factored Shear (L-D. Kips):

351.8

0.27

OK!

One-Way Design Shear Capacity (W-Direction, Kips):

1312.5

>

One-Way Factored Shear (W-D., Kips)

351.8

0.27

OK!

One-Way Design Shear Capacity (Corner-Corner. Kips):

1182.6

>

One-Way Factored Shear (C-C, Kips):

307.6

0.26

OK!

Lower Steel Pad Reinforcement Ratio (L-Direct.):

0.0025

OK!

Lower Steel Pad Reinf. Ratio (W-Direc

0.0025

Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):

7633.8

>

Moment at Bottom (L-Dir. K-Ft):

2492.0

0.33

OK!

Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):

7633.8

>

Moment at Bottom (W-Dir. K-Ft):

2492.0

0.33

OK!

Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):

10720.9

>

Moment at Bottom (C-C Dir. K-Ft):

3524.2

0.33

OK!

Upper Steel Pad Reinforcement Ratio (L-Direct.):

0.0025

OK!

Upper Steel Reinf. Ratio (W-Dir.):

0.0025

Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):

7633.8

>

Moment at the top (L-Dir K-Ft):

1029.2

0.13

OK!

Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):

7633.8

>

Moment at the top (W-Dir K-Ft):

1029.2

0.13

OK!

Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):

10720.9

>

Moment at the top (C-C Dir. K-Ft):

964.0

0.09

OK!

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:

2216.4

k-ft.

Max. factored shear stress v_{u_CD} :

3.7

Psi

Max. factored shear stress v_{u_AB} :

8.4

Psi

Factored shear Strength ϕv_n :

164.3

Psi

Max. factored shear stress v_u :

8.4

Psi

Check Usage of Punching Shear Capacity:

0.05

OK!



Tower Engineering Solutions, LLC

June 14, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Dr.
Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention "Licensed Sub-6, L-Sub6, nL-Sub6, VZS01" and any other slight variants refer to the 64T64RMMU, Model Code: MT6407-77A manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the "Structural Analysis".

If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Sincerely,
Tower Engineering Solutions, LLC





Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10061732
Maser Consulting Connecticut Project #: 21777104A

May 5, 2021

Site Information

Site ID: 468244-VZW / Lisbon CT
Site Name: Lisbon CT
Carrier Name: Verizon Wireless
Address: 26 Mell Rd
Lisbon, Connecticut 6351
New London County
Latitude: 41.591194°
Longitude: -72.017447°

Structure Information

Tower Type: 190-Ft Monopole
Mount Type: 14.00-Ft Platform

FUZE ID # 16244619

Analysis Results

Platform: 79.5% 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: Selene Chen



Digitally signed by Justin Linette
Date: 2021.05.07 09:07:01-04'00'

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: 674951, dated February 11, 2021
Mount Mapping Report	Hudson Design Group, LLC, Site #: 468244, dated February 25, 2021
Mount Analysis Report	Maser Consulting Connecticut, Project #: 21777104A, dated April 2, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21777104A, dated May 5, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 124 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.991
Seismic Parameters:	S_s : 0.190 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)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
159.00	160.00	3	Samsung	MT6407-77A	Added
		3	Samsung	B2/B66A RRH-BR049 (RFV01U-D1A)	
		3	Samsung	B5/B13 RRH-BR04C (RFV01U-D2A)	
		3	Amphenol Antel	BXA-70080-4BF-EDIN-0	Retained
		2	Raycap	*RRFDC-3315-PF-48	
		6	Andrew	SBNHH-1D65B	

*Equipment flush mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
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 Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff	32.0%	Pass
Grating Angle	10.2%	Pass
Cross Members	33.2%	Pass
Face Horizontal	78.1%	Pass
Mount Pipe	50.4%	Pass
Support Rail	20.0%	Pass
Support Rail Corner	21.3%	Pass
Connection Weld	79.5%	Pass

Structure Rating – (Controlling Utilization of all Components)	79.5%
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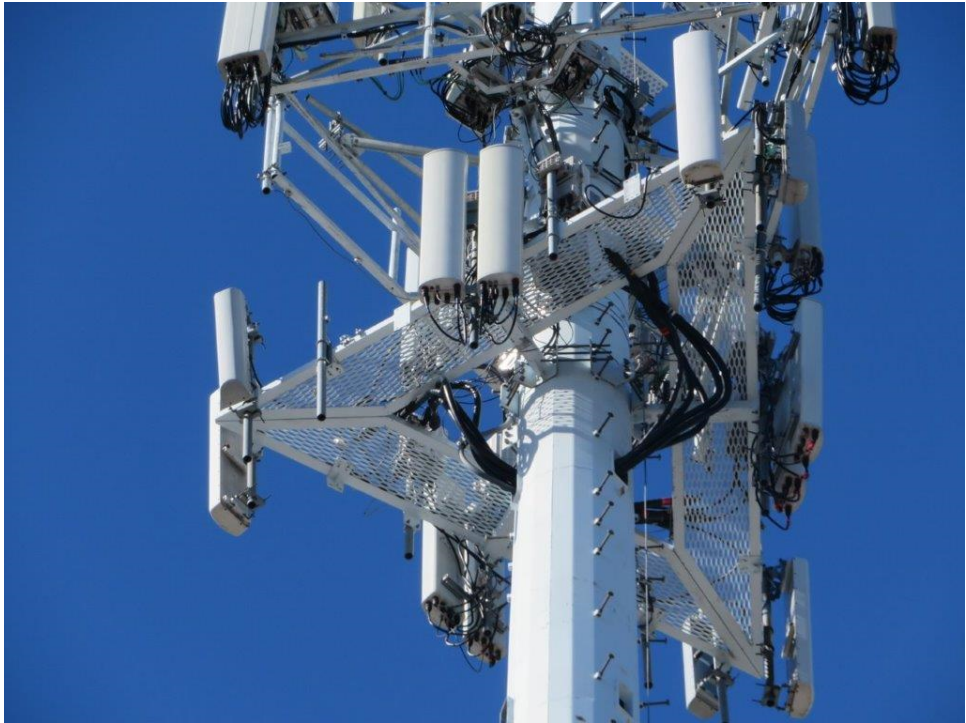
Recommendation:

The existing mount 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:

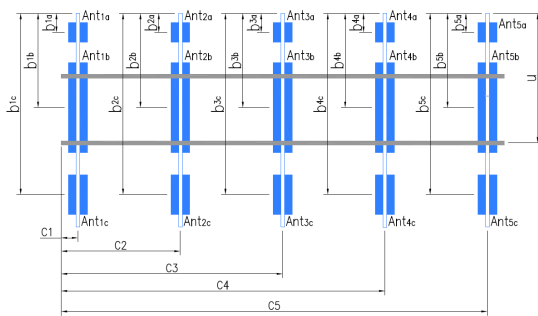
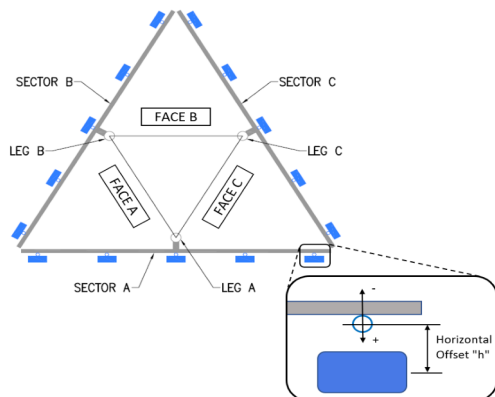
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



FCC #
1051827

Tower Owner:	SBA	Mapping Date:	2/25/2021
Site Name:	LISBON CT	Tower Type:	Monopole
Site Number or ID:	468244	Tower Height (Ft.):	190
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	158.3

ANTENNA PLAN



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	Pipe 2" STD. X 60"	36.00	12.00	C1	Pipe 2" STD. X 60	36.00	12.00
A2	Pipe 2" STD. X 54"	36.00	60.50	C2	Pipe 2" STD. X 54"	36.00	60.50
A3	Pipe 2" STD. X 84"	39.00	86.50	C3	Pipe 2" STD. X 84"	39.00	86.50
A4	Pipe 2" STD. X 60"	36.00		C4	Pipe 2" STD. X 60"	36.00	
A5	Pipe 2" STD. X 60"	36.00	161.00	C5	Pipe 2" STD. X 60"	36.00	161.00
A6				C6			
B1	Pipe 2" STD. X 60	36.00	12.00	D1			
B2	Pipe 2" STD. X 54"	36.00	60.50	D2			
B3	Pipe 2" STD. X 84"	39.00	86.50	D3			
B4	Pipe 2" STD. X 60"	36.00		D4			
B5	Pipe 2" STD. X 60"	36.00	161.00	D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							6
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
EMPTY PIPE MAST @ POS. 4							
RADIO UNITS NOT MOUNTED WITH ANTENNAS ARE LISTED IN STANDIOFF ROWS							
Tower Face Width at Mount Elev. (ft.):			Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				28

[illegible]

[illegible]

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1		
2	CLIMBING PATH UNOBSTRUCTED	25
3	(12) 1-5/8"Ø COAX, (2) 1-1/4"Ø HYBRID	146-148
4	TOWER TAG: MODEL: 195 MJ-180 MONOPOLE -SERIAL: 6531 LISBON, CT - PROJECT: SBA 4-99	153
5		
6		
7		
8		

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

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



Antenna Mount Mapping Form (PATENT PENDING)

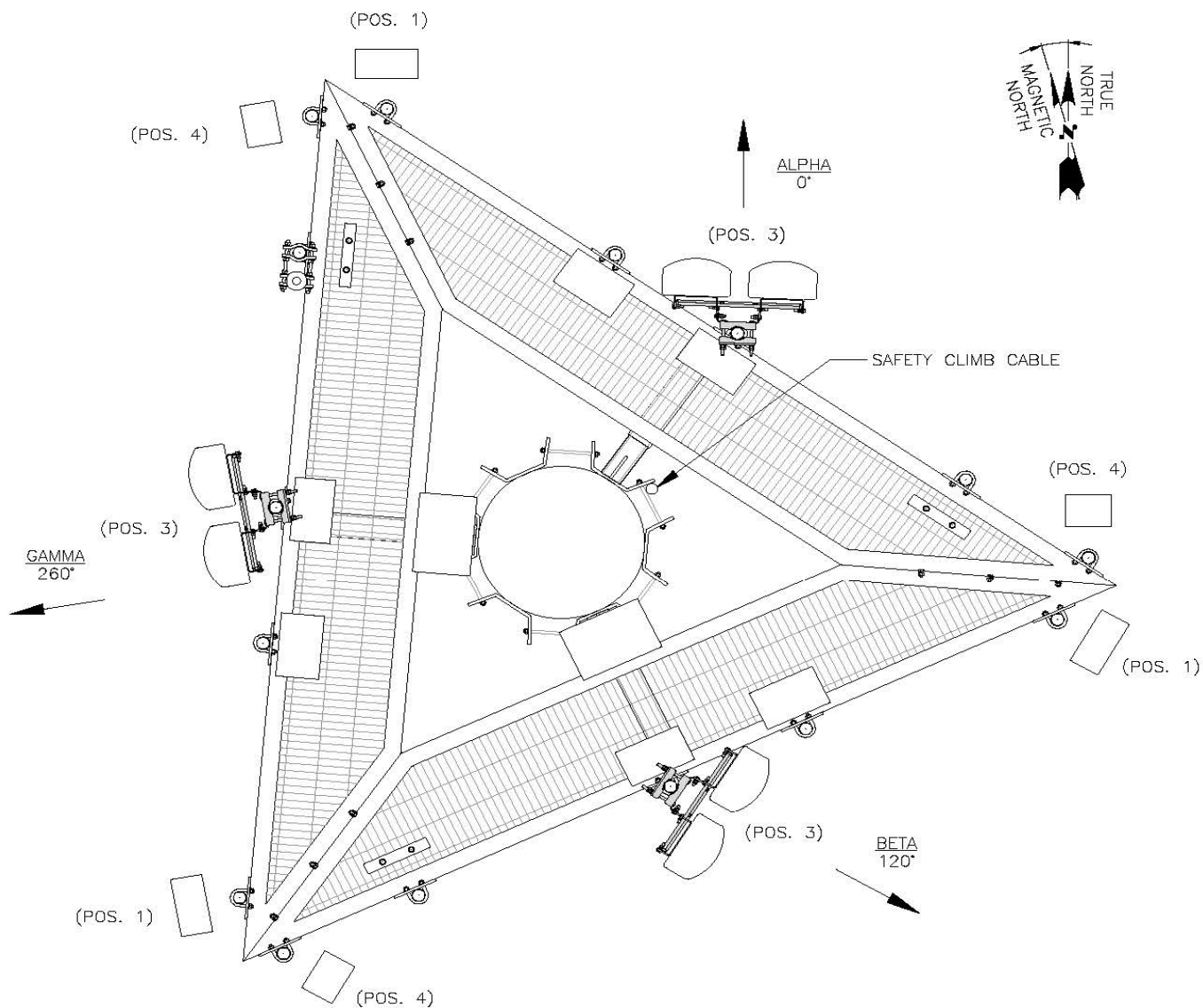
FCC #

1051827

Tower Owner:	SBA	Mapping Date:	2/25/2021
Site Name:	LISBON CT	Tower Type:	Monopole
Site Number or ID:	468244	Tower Height (Ft.):	190
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	158.3

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

Please Insert Sketches of the Antenna Mount

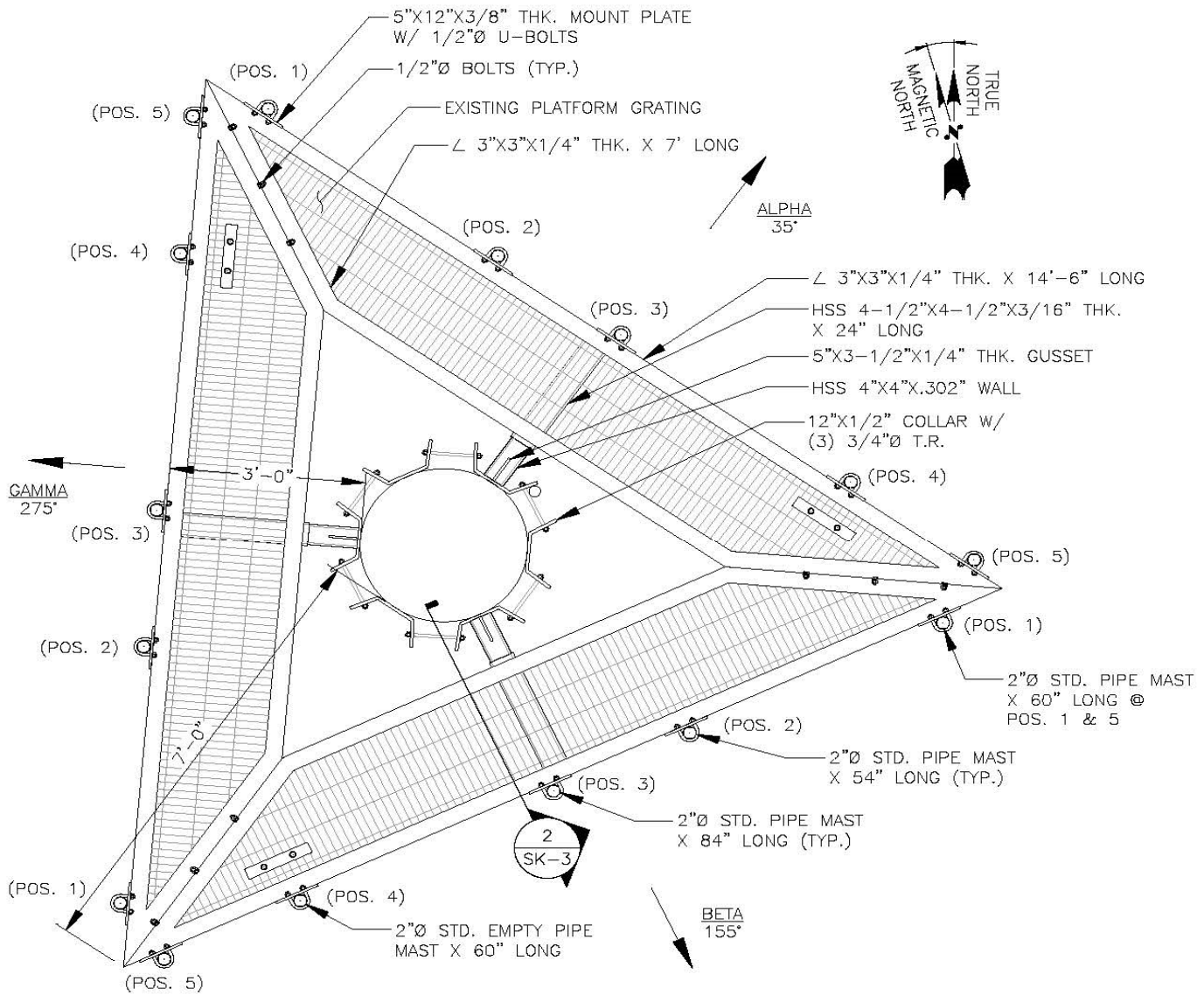


ANTENNA PLAN

SCALE: N.T.S

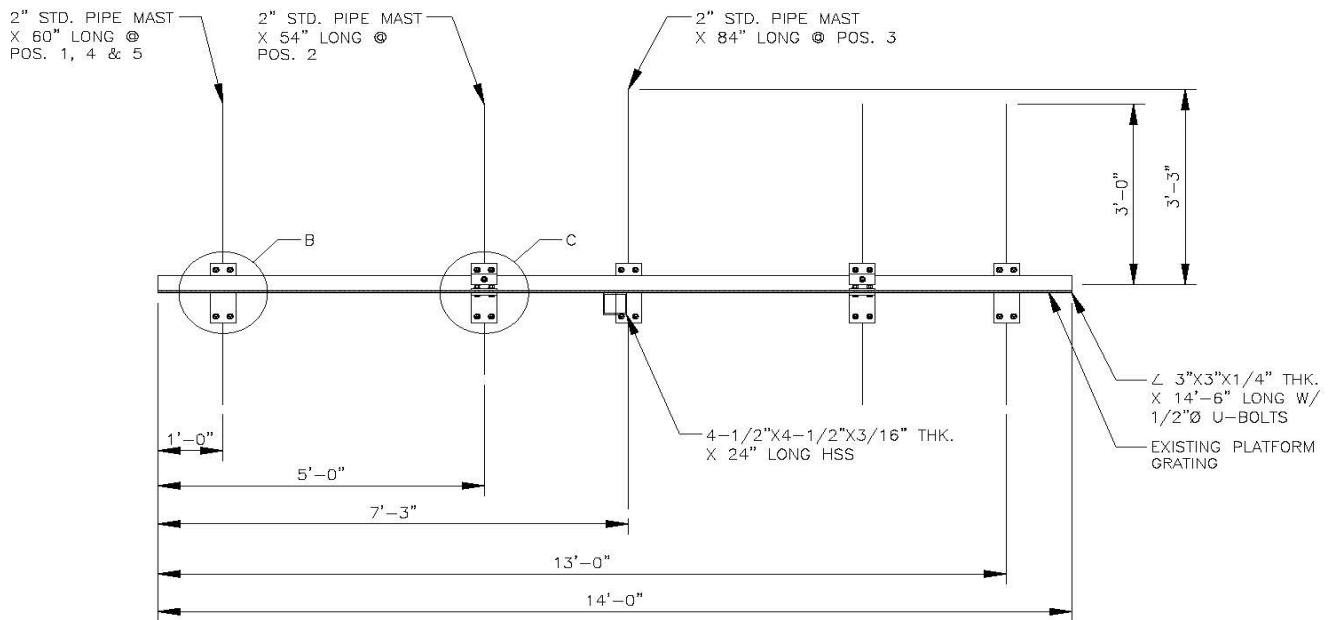
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SK-1



MOUNT PLAN
SCALE: N.T.S

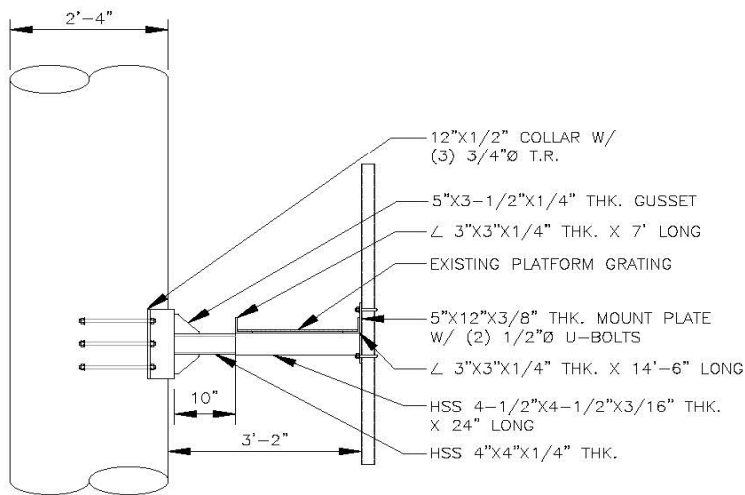
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SK-2



FACE MOUNT ELEVATION

SCALE: N.T.S

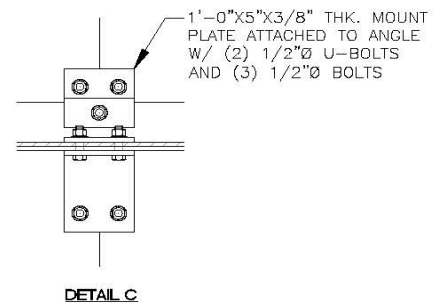
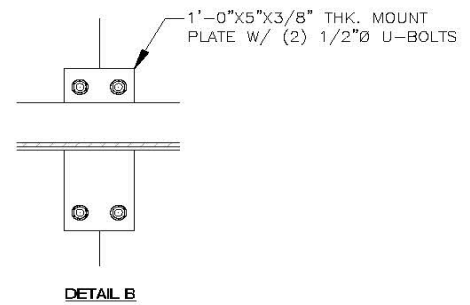
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SK-3

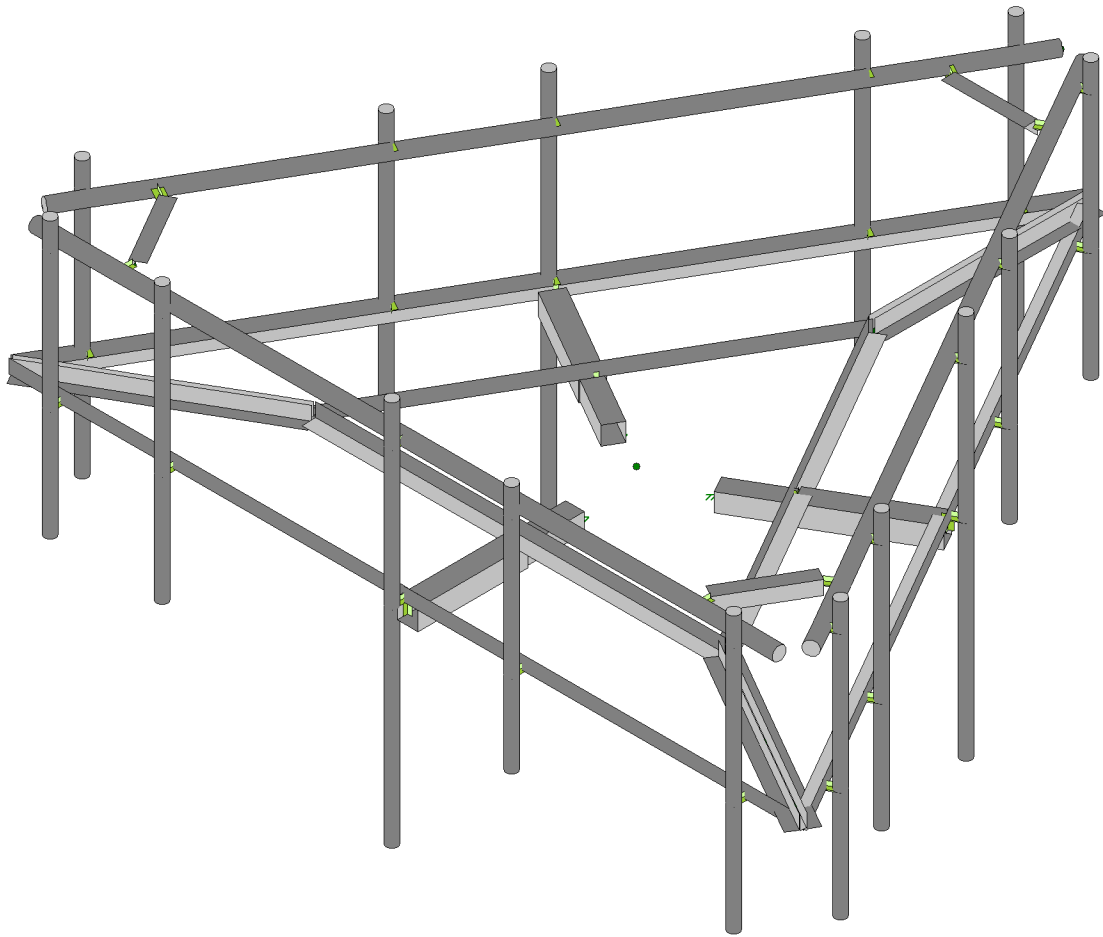
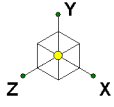


MOUNT SIDE ELEVATION

SCALE: N.T.S

2
SK-3





Envelope Only Solution

Maser Consulting

CJG

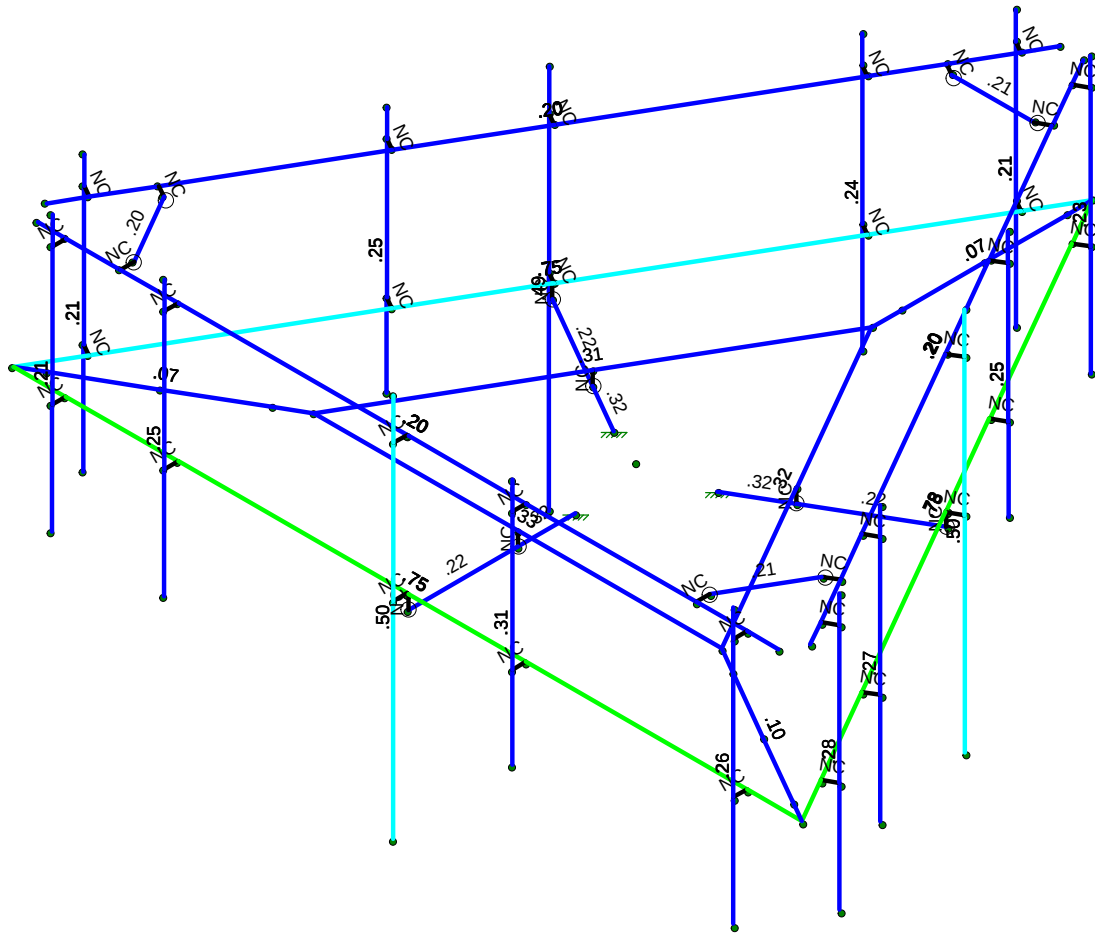
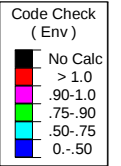
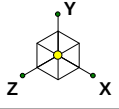
Project No. 10037892

468244-VZW_MT_LO_H

SK - 1

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Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting

CJG

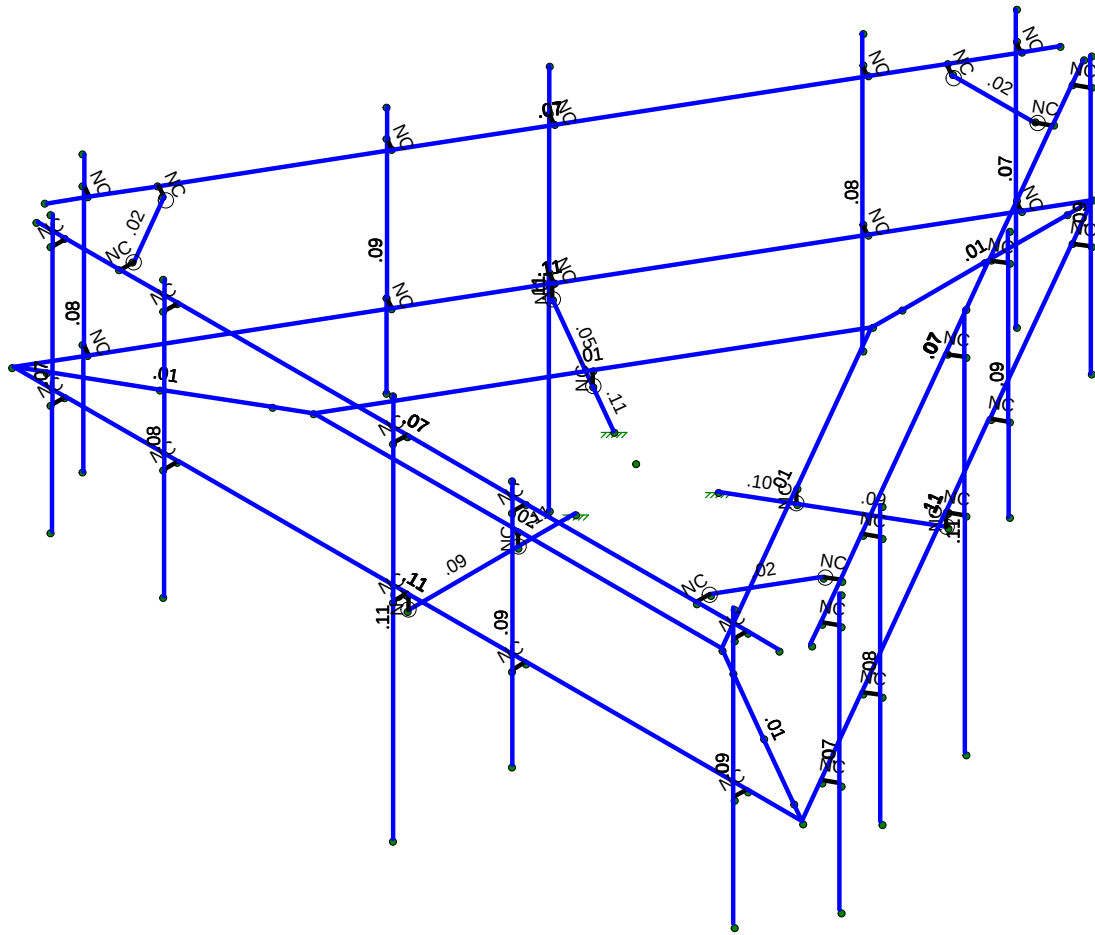
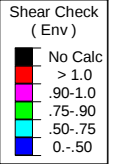
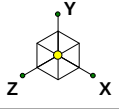
Project No. 10037892

468244-VZW_MT_LO_H

SK - 2

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Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting

CJG

Project No. 10037892

468244-VZW_MT_LO_H

SK - 3

May 4, 2021 at 5:12 PM

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May 4, 2021
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BLC Description		Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(P...	
1	Antenna D	None					90		
2	Antenna Di	None					90		
3	Antenna Wo (0 Deg)	None					90		
4	Antenna Wo (30 Deg)	None					90		
5	Antenna Wo (60 Deg)	None					90		
6	Antenna Wo (90 Deg)	None					90		
7	Antenna Wo (120 Deg)	None					90		
8	Antenna Wo (150 Deg)	None					90		
9	Antenna Wo (180 Deg)	None					90		
10	Antenna Wo (210 Deg)	None					90		
11	Antenna Wo (240 Deg)	None					90		
12	Antenna Wo (270 Deg)	None					90		
13	Antenna Wo (300 Deg)	None					90		
14	Antenna Wo (330 Deg)	None					90		
15	Antenna Wi (0 Deg)	None					90		
16	Antenna Wi (30 Deg)	None					90		
17	Antenna Wi (60 Deg)	None					90		
18	Antenna Wi (90 Deg)	None					90		
19	Antenna Wi (120 Deg)	None					90		
20	Antenna Wi (150 Deg)	None					90		
21	Antenna Wi (180 Deg)	None					90		
22	Antenna Wi (210 Deg)	None					90		
23	Antenna Wi (240 Deg)	None					90		
24	Antenna Wi (270 Deg)	None					90		
25	Antenna Wi (300 Deg)	None					90		
26	Antenna Wi (330 Deg)	None					90		
27	Antenna Wm (0 Deg)	None					90		
28	Antenna Wm (30 Deg)	None					90		
29	Antenna Wm (60 Deg)	None					90		
30	Antenna Wm (90 Deg)	None					90		
31	Antenna Wm (120 De...	None					90		
32	Antenna Wm (150 De...	None					90		
33	Antenna Wm (180 De...	None					90		
34	Antenna Wm (210 De...	None					90		
35	Antenna Wm (240 De...	None					90		
36	Antenna Wm (270 De...	None					90		
37	Antenna Wm (300 De...	None					90		
38	Antenna Wm (330 De...	None					90		
39	Structure D	None		-1					3
40	Structure Di	None						36	3
41	Structure Wo (0 Deg)	None						72	
42	Structure Wo (30 Deg)	None						72	
43	Structure Wo (60 Deg)	None						72	
44	Structure Wo (90 Deg)	None						72	
45	Structure Wo (120 D...	None						72	
46	Structure Wo (150 D...	None						72	
47	Structure Wo (180 D...	None						72	
48	Structure Wo (210 D...	None						72	
49	Structure Wo (240 D...	None						72	
50	Structure Wo (270 D...	None						72	
51	Structure Wo (300 D...	None						72	

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	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
52	Structure Wo (330 D...	None						72	
53	Structure Wi (0 Deg)	None						72	
54	Structure Wi (30 Deg)	None						72	
55	Structure Wi (60 Deg)	None						72	
56	Structure Wi (90 Deg)	None						72	
57	Structure Wi (120 De...	None						72	
58	Structure Wi (150 De...	None						72	
59	Structure Wi (180 De...	None						72	
60	Structure Wi (210 De...	None						72	
61	Structure Wi (240 De...	None						72	
62	Structure Wi (270 De...	None						72	
63	Structure Wi (300 De...	None						72	
64	Structure Wi (330 De...	None						72	
65	Structure Wm (0 Deg)	None						72	
66	Structure Wm (30 D...	None						72	
67	Structure Wm (60 D...	None						72	
68	Structure Wm (90 D...	None						72	
69	Structure Wm (120 ...	None						72	
70	Structure Wm (150 ...	None						72	
71	Structure Wm (180 ...	None						72	
72	Structure Wm (210 ...	None						72	
73	Structure Wm (240 ...	None						72	
74	Structure Wm (270 ...	None						72	
75	Structure Wm (300 ...	None						72	
76	Structure Wm (330 ...	None						72	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Are...	None						36	
82	BLC 40 Transient Are...	None						36	

	Description	Solve	PDelta	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
1	1.2D+1.0Wo (0..	Yes	Y		1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (3..	Yes	Y		1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (6..	Yes	Y		1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (9..	Yes	Y		1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (1..	Yes	Y		1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (1..	Yes	Y		1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (1..	Yes	Y		1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (2..	Yes	Y		1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (2..	Yes	Y		1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (2..	Yes	Y		1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (3..	Yes	Y		1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (3..	Yes	Y		1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				

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[illegible]

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0.	0	-0.	0	
2	N2	0.	-.25	1.095417	0	
3	N10	-0.	0	-4.291667	0	
4	N11	-0.	0	-4.833334	0	
5	N12	-0.	0	-6.333334	0	
6	N13	-0.	0	-7.833334	0	
7	N14	-0.	0	-8.291667	0	
8	N15	-3.716693	0	2.145833	0	
9	N16	-7.180794	0	4.145833	0	
10	N17	3.716693	0	2.145833	0	
11	N18	7.180794	0	4.145833	0	
12	N15A	0.	-.25	2.145833	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
13	N16A	0.	-.25	4.145833	0	
14	N15B	-4.18579	0	2.416667	0	
15	N16B	-5.484828	0	3.166667	0	
16	N17A	-6.783866	0	3.916667	0	
17	N18A	4.18579	0	2.416667	0	
18	N19	5.484828	0	3.166667	0	
19	N20	6.783866	0	3.916667	0	
20	N21	-6.235877	0	4.145833	0	
21	N26	-6.235877	0	4.395833	0	
22	N31	-4.194202	0	4.145833	0	
23	N33	-4.194202	0	4.395833	0	
24	N35	-0.027536	0	4.145833	0	
25	N37	-0.027536	0	4.395833	0	
26	N39	2.139131	0	4.145833	0	
27	N41	2.139131	0	4.395833	0	
28	N43	6.180798	0	4.145833	0	
29	N45	6.180798	0	4.395833	0	
30	N77	0.948658	-.25	-0.547709	0	
31	N78	1.858346	-.25	-1.072917	0	
32	N109	-0.948659	-.25	-0.547708	0	
33	N110	-1.858346	-.25	-1.072917	0	
34	N108A	3.590397	-.25	-2.072917	0	
35	N110A	-3.590397	-.25	-2.072917	0	
36	N41A	6.180798	3	4.395833	0	
37	N42	6.180798	-2	4.395833	0	
38	N43A	2.139131	3	4.395833	0	
39	N44	2.139131	-1.5	4.395833	0	
40	N45A	-0.027536	3.25	4.395833	0	
41	N46	-0.027536	-3.75	4.395833	0	
42	N47	-4.194202	3	4.395833	0	
43	N48	-4.194202	-2	4.395833	0	
44	N49	-6.235877	3	4.395833	0	
45	N50	-6.235877	-2	4.395833	0	
46	N50A	6.708336	0	3.327512	0	
47	N51	6.924842	0	3.202512	0	
48	N52	5.687498	0	1.559369	0	
49	N53	5.904005	0	1.434369	0	
50	N54	3.604165	0	-2.04907	0	
51	N55	3.820671	0	-2.17407	0	
52	N56	2.520832	0	-3.925458	0	
53	N57	2.737338	0	-4.050458	0	
54	N58	0.499998	0	-7.425644	0	
55	N59	0.716505	0	-7.550644	0	
56	N60	0.716505	3	-7.550644	0	
57	N61	0.716505	-2	-7.550644	0	
58	N62	2.737338	3	-4.050458	0	
59	N63	2.737338	-1.5	-4.050458	0	
60	N64	3.820671	3.25	-2.17407	0	
61	N65	3.820671	-3.75	-2.17407	0	
62	N66	5.904005	3	1.434369	0	
63	N67A	5.904005	-2	1.434369	0	
64	N68	6.924842	3	3.202512	0	

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	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
65	N69	6.924842	-2	3.202512	0	
66	N71	-0.472458	0	-7.473345	0	
67	N72	-0.688965	0	-7.598345	0	
68	N73	-1.493296	0	-5.705203	0	
69	N74	-1.709802	0	-5.830203	0	
70	N75	-3.576629	0	-2.096763	0	
71	N76	-3.793136	0	-2.221763	0	
72	N77A	-4.659962	0	-0.220375	0	
73	N78A	-4.876469	0	-0.345375	0	
74	N79	-6.680796	0	3.279811	0	
75	N80	-6.897302	0	3.154811	0	
76	N81	-6.897302	3	3.154811	0	
77	N82	-6.897302	-2	3.154811	0	
78	N83	-4.876469	3	-0.345375	0	
79	N84	-4.876469	-1.5	-0.345375	0	
80	N85	-3.793136	3.25	-2.221763	0	
81	N86	-3.793136	-3.75	-2.221763	0	
82	N87	-1.709802	3	-5.830203	0	
83	N88	-1.709802	-2	-5.830203	0	
84	N89	-0.688965	3	-7.598345	0	
85	N90	-0.688965	-2	-7.598345	0	
86	N87A	0.	0	4.145833	0	
87	N88A	3.590397	0	-2.072917	0	
88	N89A	-3.590397	0	-2.072917	0	
89	N90A	0.	0	2.145833	0	
90	N91	1.858346	0	-1.072917	0	
91	N92	-1.858346	0	-1.072917	0	
92	N92A	0.	2.5	4.145833	0	
93	N93	6.75	2.5	4.145833	0	
94	N94	-6.75	2.5	4.145833	0	
95	N95	-6.235877	2.5	4.145833	0	
96	N96	-6.235877	2.5	4.395833	0	
97	N97	-4.194202	2.5	4.145833	0	
98	N98	-4.194202	2.5	4.395833	0	
99	N99	-0.027536	2.5	4.145833	0	
100	N100	-0.027536	2.5	4.395833	0	
101	N101	2.139131	2.5	4.145833	0	
102	N102	2.139131	2.5	4.395833	0	
103	N103	6.180798	2.5	4.145833	0	
104	N104	6.180798	2.5	4.395833	0	
105	N105	-5.25	2.5	4.145833	0	
106	N106	5.25	2.5	4.145833	0	
107	N107	-5.25	2.5	3.895833	0	
108	N108	5.25	2.5	3.895833	0	
109	N109A	0.215397	2.5	-7.918588	0	
110	N110B	6.965397	2.5	3.772755	0	
111	N111	6.215397	2.5	2.473717	0	
112	N112	0.965397	2.5	-6.61955	0	
113	N113	5.998891	2.5	2.598717	0	
114	N114	0.748891	2.5	-6.49455	0	
115	N115	-6.965397	2.5	3.772755	0	
116	N116	-0.215397	2.5	-7.918588	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
117	N117	-0.965397	2.5	-6.61955	0	
118	N118	-6.215397	2.5	2.473717	0	
119	N119	-0.748891	2.5	-6.49455	0	
120	N120	-5.998891	2.5	2.598717	0	
121	N121	6.708336	2.5	3.327512	0	
122	N122	6.924842	2.5	3.202512	0	
123	N123	5.687498	2.5	1.559369	0	
124	N124	5.904005	2.5	1.434369	0	
125	N125	3.604165	2.5	-2.04907	0	
126	N126	3.820671	2.5	-2.17407	0	
127	N127	2.520832	2.5	-3.925458	0	
128	N128	2.737338	2.5	-4.050458	0	
129	N129	0.499998	2.5	-7.425644	0	
130	N130	0.716505	2.5	-7.550644	0	
131	N131	-0.472458	2.5	-7.473345	0	
132	N132	-0.688965	2.5	-7.598345	0	
133	N133	-1.493296	2.5	-5.705203	0	
134	N134	-1.709802	2.5	-5.830203	0	
135	N135	-3.576629	2.5	-2.096763	0	
136	N136	-3.793136	2.5	-2.221763	0	
137	N137	-4.659962	2.5	-0.220375	0	
138	N138	-4.876469	2.5	-0.345375	0	
139	N139	-6.680796	2.5	3.279811	0	
140	N140	-6.897302	2.5	3.154811	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Standoff 2	HSS4.5X4...	Beam	Tube	A500 Gr.B ...	Typical	2.93	9.02	9.02	14.4
3	Cross Members	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
4	Face Horizontal	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Standoff 1	HSS4X4X5	Beam	Tube	A500 Gr.B ...	Typical	4.1	9.14	9.14	15.3
6	Grating Angle	LL3x3x4x0	Beam	Double Angle (...)	A36 Gr.36	Typical	2.88	4.5	2.46	.063
7	MOD Support Rail	PIPE 2.5	Beam	Double Angle (...)	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
8	MOD Bracket	L3X3X4	Beam	Double Angle (...)	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	HR9	LL3x3x4x0	Beam	Double Angle (...)	A36 Gr.36	Typical	2.88	4.5	2.46	.063

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N15A			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
2	M2	N15A	N16A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
3	M5	N14	N10		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
4	M6	N16	N15		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
5	M7	N18	N17		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
6	M6A	N17	N15		270	Cross Members	Beam	Single Angle	A36 Gr.36	Typical
7	M7A	N16	N18		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M10	N21	N26			RIGID	None	None	RIGID	Typical
9	M13	N31	N33			RIGID	None	None	RIGID	Typical
10	M15	N35	N37			RIGID	None	None	RIGID	Typical
11	M17	N39	N41			RIGID	None	None	RIGID	Typical
12	M19	N43	N45			RIGID	None	None	RIGID	Typical
13	M23A	N10	N17		270	Cross Members	Beam	Single Angle	A36 Gr.36	Typical
14	M24	N18	N14		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
15	M38	N77	N78			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
16	M39A	N15	N10		270	Cross Members	Beam	Single Angle	A36 Gr.36	Typical
17	M40	N14	N16		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
18	M54	N109	N110			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
19	M55	N78	N108A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
20	M56	N110	N110A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
21	MP1A	N41A	N42			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
22	MP2A	N43A	N44			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
23	MP3A	N45A	N46			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
24	MP4A	N47	N48			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
25	MP5A	N49	N50			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
26	M26	N50A	N51			RIGID	None	None	RIGID	Typical
27	M27	N52	N53			RIGID	None	None	RIGID	Typical
28	M28	N54	N55			RIGID	None	None	RIGID	Typical
29	M29	N56	N57			RIGID	None	None	RIGID	Typical
30	M30	N58	N59			RIGID	None	None	RIGID	Typical
31	MP1C	N60	N61			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
32	MP2C	N62	N63			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
33	MP3C	N64	N65			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
34	MP4C	N66	N67A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
35	MP5C	N68	N69			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
36	M36	N71	N72			RIGID	None	None	RIGID	Typical
37	M37	N73	N74			RIGID	None	None	RIGID	Typical
38	M38A	N75	N76			RIGID	None	None	RIGID	Typical
39	M39	N77A	N78A			RIGID	None	None	RIGID	Typical
40	M40A	N79	N80			RIGID	None	None	RIGID	Typical
41	MP1B	N81	N82			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
42	MP2B	N83	N84			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
43	MP3B	N85	N86			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
44	MP4B	N87	N88			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
45	MP5B	N89	N90			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
46	M46	N16A	N87A			RIGID	None	None	RIGID	Typical
47	M47	N110A	N89A		60	RIGID	None	None	RIGID	Typical
48	M48	N108A	N88A		120	RIGID	None	None	RIGID	Typical
49	M49	N15A	N90A			RIGID	None	None	RIGID	Typical
50	M50	N110	N92		60	RIGID	None	None	RIGID	Typical
51	M51	N78	N91		120	RIGID	None	None	RIGID	Typical

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	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
52	M52	N94	N93			MOD Support ...	Beam	Double Angle (...)	A53 Gr.B	Typical
53	M53	N95	N96			RIGID	None	None	RIGID	Typical
54	M54A	N97	N98			RIGID	None	None	RIGID	Typical
55	M55A	N99	N100			RIGID	None	None	RIGID	Typical
56	M56A	N101	N102			RIGID	None	None	RIGID	Typical
57	M57	N103	N104			RIGID	None	None	RIGID	Typical
58	M58	N107	N105			RIGID	None	None	RIGID	Typical
59	M59	N108	N106			RIGID	None	None	RIGID	Typical
60	M60	N110B	N109A			MOD Support ...	Beam	Double Angle (...)	A53 Gr.B	Typical
61	M61	N113	N111			RIGID	None	None	RIGID	Typical
62	M62	N114	N112			RIGID	None	None	RIGID	Typical
63	M63	N116	N115			MOD Support ...	Beam	Double Angle (...)	A53 Gr.B	Typical
64	M64	N119	N117			RIGID	None	None	RIGID	Typical
65	M65	N120	N118			RIGID	None	None	RIGID	Typical
66	M66	N120	N107		180	MOD Bracket	Beam	Double Angle (...)	A36 Gr.36	Typical
67	M67	N108	N113		180	MOD Bracket	Beam	Double Angle (...)	A36 Gr.36	Typical
68	M68	N114	N119		180	MOD Bracket	Beam	Double Angle (...)	A36 Gr.36	Typical
69	M69	N121	N122			RIGID	None	None	RIGID	Typical
70	M70	N123	N124			RIGID	None	None	RIGID	Typical
71	M71	N125	N126			RIGID	None	None	RIGID	Typical
72	M72	N127	N128			RIGID	None	None	RIGID	Typical
73	M73	N129	N130			RIGID	None	None	RIGID	Typical
74	M74	N131	N132			RIGID	None	None	RIGID	Typical
75	M75	N133	N134			RIGID	None	None	RIGID	Typical
76	M76	N135	N136			RIGID	None	None	RIGID	Typical
77	M77	N137	N138			RIGID	None	None	RIGID	Typical
78	M78	N139	N140			RIGID	None	None	RIGID	Typical

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic ...
1	M1						Yes				None
2	M2						Yes				None
3	M5						Yes				None
4	M6						Yes				None
5	M7						Yes				None
6	M6A						Yes				None
7	M7A						Yes				None
8	M10						Yes	** NA **			None
9	M13						Yes	** NA **			None
10	M15						Yes	** NA **			None
11	M17						Yes	** NA **			None
12	M19						Yes	** NA **			None
13	M23A						Yes				None
14	M24						Yes				None
15	M38						Yes				None
16	M39A						Yes				None
17	M40						Yes				None
18	M54						Yes				None
19	M55						Yes				None
20	M56						Yes				None

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	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic ...
21	MP1A						Yes	** NA **			None
22	MP2A						Yes	** NA **			None
23	MP3A						Yes	** NA **			None
24	MP4A						Yes	** NA **			None
25	MP5A						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	M27						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	M29						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	MP1C						Yes	** NA **			None
32	MP2C						Yes	** NA **			None
33	MP3C						Yes	** NA **			None
34	MP4C						Yes	** NA **			None
35	MP5C						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38A						Yes	** NA **			None
39	M39						Yes	** NA **			None
40	M40A						Yes	** NA **			None
41	MP1B						Yes	** NA **			None
42	MP2B						Yes	** NA **			None
43	MP3B						Yes	** NA **			None
44	MP4B						Yes	** NA **			None
45	MP5B						Yes	** NA **			None
46	M46		000000				Yes	** NA **			None
47	M47		000000				Yes	** NA **			None
48	M48		000000				Yes	** NA **			None
49	M49		000000				Yes	** NA **			None
50	M50		000000				Yes	** NA **			None
51	M51		000000				Yes	** NA **			None
52	M52						Yes				None
53	M53						Yes	** NA **			None
54	M54A						Yes	** NA **			None
55	M55A						Yes	** NA **			None
56	M56A						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58		000000				Yes	** NA **			None
59	M59		000000				Yes	** NA **			None
60	M60						Yes				None
61	M61		000000				Yes	** NA **			None
62	M62		000000				Yes	** NA **			None
63	M63						Yes				None
64	M64		000000				Yes	** NA **			None
65	M65		000000				Yes	** NA **			None
66	M66						Yes				None
67	M67						Yes				None
68	M68						Yes				None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None

Company : Maser Consulting
 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76						Yes	** NA **			None
77	M77						Yes	** NA **			None
78	M78						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-43.55	2.38
2	MP1A	My	-.018	2.38
3	MP1A	Mz	.012	2.38
4	MP1A	Y	-43.55	3.63
5	MP1A	My	-.018	3.63
6	MP1A	Mz	.012	3.63
7	MP1B	Y	-43.55	2.38
8	MP1B	My	-.006	2.38
9	MP1B	Mz	-.021	2.38
10	MP1B	Y	-43.55	3.63
11	MP1B	My	-.006	3.63
12	MP1B	Mz	-.021	3.63
13	MP1C	Y	-43.55	2.38
14	MP1C	My	.019	2.38
15	MP1C	Mz	.011	2.38
16	MP1C	Y	-43.55	3.63
17	MP1C	My	.019	3.63
18	MP1C	Mz	.011	3.63
19	MP2A	Y	-84.4	2
20	MP2A	My	-.035	2
21	MP2A	Mz	.024	2
22	MP2B	Y	-84.4	2
23	MP2B	My	-.011	2
24	MP2B	Mz	-.041	2
25	MP2C	Y	-84.4	2
26	MP2C	My	.037	2
27	MP2C	Mz	.021	2
28	MP3A	Y	-70.3	2
29	MP3A	My	-.029	2
30	MP3A	Mz	.02	2
31	MP3B	Y	-70.3	2
32	MP3B	My	-.009	2
33	MP3B	Mz	-.034	2
34	MP3C	Y	-70.3	2
35	MP3C	My	.03	2
36	MP3C	Mz	.018	2
37	MP5A	Y	-6	.25
38	MP5A	My	-.002	.25
39	MP5A	Mz	.002	.25
40	MP5A	Y	-6	4.25
41	MP5A	My	-.002	4.25

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	Y	-36.174	2.38
2	MP1A	My	-.015	2.38
3	MP1A	Mz	.01	2.38
4	MP1A	Y	-36.174	3.63
5	MP1A	My	-.015	3.63
6	MP1A	Mz	.01	3.63
7	MP1B	Y	-36.174	2.38
8	MP1B	My	-.005	2.38
9	MP1B	Mz	-.017	2.38
10	MP1B	Y	-36.174	3.63
11	MP1B	My	-.005	3.63
12	MP1B	Mz	-.017	3.63
13	MP1C	Y	-36.174	2.38
14	MP1C	My	.016	2.38
15	MP1C	Mz	.009	2.38
16	MP1C	Y	-36.174	3.63
17	MP1C	My	.016	3.63
18	MP1C	Mz	.009	3.63
19	MP2A	Y	-45.617	2
20	MP2A	My	-.019	2
21	MP2A	Mz	.013	2
22	MP2B	Y	-45.617	2
23	MP2B	My	-.006	2
24	MP2B	Mz	-.022	2
25	MP2C	Y	-45.617	2
26	MP2C	My	.02	2
27	MP2C	Mz	.011	2
28	MP3A	Y	-41.028	2
29	MP3A	My	-.017	2
30	MP3A	Mz	.012	2
31	MP3B	Y	-41.028	2
32	MP3B	My	-.005	2
33	MP3B	Mz	-.02	2
34	MP3C	Y	-41.028	2
35	MP3C	My	.018	2
36	MP3C	Mz	.01	2
37	MP5A	Y	-31.22	.25
38	MP5A	My	-.013	.25
39	MP5A	Mz	.009	.25
40	MP5A	Y	-31.22	4.25
41	MP5A	My	-.013	4.25
42	MP5A	Mz	.009	4.25
43	MP5B	Y	-31.22	.25
44	MP5B	My	-.001	.25
45	MP5B	Mz	-.016	.25
46	MP5B	Y	-31.22	4.25
47	MP5B	My	-.001	4.25
48	MP5B	Mz	-.016	4.25
49	MP5C	Y	-31.22	.25
50	MP5C	My	.014	.25
51	MP5C	Mz	.007	.25
52	MP5C	Y	-31.22	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	My	.014	4.25
54	MP5C	Mz	.007	4.25
55	MP3A	Y	-62.014	.5
56	MP3A	My	-.002	.5
57	MP3A	Mz	.052	.5
58	MP3A	Y	-62.014	5.5
59	MP3A	My	-.002	5.5
60	MP3A	Mz	.052	5.5
61	MP3B	Y	-62.014	.5
62	MP3B	My	-.048	.5
63	MP3B	Mz	-.019	.5
64	MP3B	Y	-62.014	5.5
65	MP3B	My	-.048	5.5
66	MP3B	Mz	-.019	5.5
67	MP3C	Y	-62.014	.5
68	MP3C	My	.048	.5
69	MP3C	Mz	-.02	.5
70	MP3C	Y	-62.014	5.5
71	MP3C	My	.048	5.5
72	MP3C	Mz	-.02	5.5
73	MP3A	Y	-62.014	.5
74	MP3A	My	-.049	.5
75	MP3A	Mz	-.016	.5
76	MP3A	Y	-62.014	5.5
77	MP3A	My	-.049	5.5
78	MP3A	Mz	-.016	5.5
79	MP3B	Y	-62.014	.5
80	MP3B	My	.032	.5
81	MP3B	Mz	-.041	.5
82	MP3B	Y	-62.014	5.5
83	MP3B	My	.032	5.5
84	MP3B	Mz	-.041	5.5
85	MP3C	Y	-62.014	.5
86	MP3C	My	.006	.5
87	MP3C	Mz	.051	.5
88	MP3C	Y	-62.014	5.5
89	MP3C	My	.006	5.5
90	MP3C	Mz	.051	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.38
2	MP1A	Z	-87.437	2.38
3	MP1A	Mx	-.025	2.38
4	MP1A	X	0	3.63
5	MP1A	Z	-87.437	3.63
6	MP1A	Mx	-.025	3.63
7	MP1B	X	0	2.38
8	MP1B	Z	-47.256	2.38
9	MP1B	Mx	.023	2.38
10	MP1B	X	0	3.63

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	-47.256	3.63
12	MP1B	Mx	.023	3.63
13	MP1C	X	0	2.38
14	MP1C	Z	-92.692	2.38
15	MP1C	Mx	-.023	2.38
16	MP1C	X	0	3.63
17	MP1C	Z	-92.692	3.63
18	MP1C	Mx	-.023	3.63
19	MP2A	X	0	2
20	MP2A	Z	-77.504	2
21	MP2A	Mx	-.022	2
22	MP2B	X	0	2
23	MP2B	Z	-60.082	2
24	MP2B	Mx	.029	2
25	MP2C	X	0	2
26	MP2C	Z	-79.782	2
27	MP2C	Mx	-.02	2
28	MP3A	X	0	2
29	MP3A	Z	-73.869	2
30	MP3A	Mx	-.021	2
31	MP3B	X	0	2
32	MP3B	Z	-49.774	2
33	MP3B	Mx	.024	2
34	MP3C	X	0	2
35	MP3C	Z	-77.02	2
36	MP3C	Mx	-.019	2
37	MP5A	X	0	.25
38	MP5A	Z	-76.935	.25
39	MP5A	Mx	-.022	.25
40	MP5A	X	0	4.25
41	MP5A	Z	-76.935	4.25
42	MP5A	Mx	-.022	4.25
43	MP5B	X	0	.25
44	MP5B	Z	-65.097	.25
45	MP5B	Mx	.032	.25
46	MP5B	X	0	4.25
47	MP5B	Z	-65.097	4.25
48	MP5B	Mx	.032	4.25
49	MP5C	X	0	.25
50	MP5C	Z	-79.619	.25
51	MP5C	Mx	-.017	.25
52	MP5C	X	0	4.25
53	MP5C	Z	-79.619	4.25
54	MP5C	Mx	-.017	4.25
55	MP3A	X	0	.5
56	MP3A	Z	-168.653	.5
57	MP3A	Mx	-.14	.5
58	MP3A	X	0	5.5
59	MP3A	Z	-168.653	5.5
60	MP3A	Mx	-.14	5.5
61	MP3B	X	0	.5
62	MP3B	Z	-129.824	.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	.04	.5
64	MP3B	X	0	5.5
65	MP3B	Z	-129.824	5.5
66	MP3B	Mx	.04	5.5
67	MP3C	X	0	.5
68	MP3C	Z	-173.731	.5
69	MP3C	Mx	.057	.5
70	MP3C	X	0	5.5
71	MP3C	Z	-173.731	5.5
72	MP3C	Mx	.057	5.5
73	MP3A	X	0	.5
74	MP3A	Z	-168.653	.5
75	MP3A	Mx	.044	.5
76	MP3A	X	0	5.5
77	MP3A	Z	-168.653	5.5
78	MP3A	Mx	.044	5.5
79	MP3B	X	0	.5
80	MP3B	Z	-129.824	.5
81	MP3B	Mx	.085	.5
82	MP3B	X	0	5.5
83	MP3B	Z	-129.824	5.5
84	MP3B	Mx	.085	5.5
85	MP3C	X	0	.5
86	MP3C	Z	-173.731	.5
87	MP3C	Mx	-.144	.5
88	MP3C	X	0	5.5
89	MP3C	Z	-173.731	5.5
90	MP3C	Mx	-.144	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	27.34	2.38
2	MP1A	Z	-47.355	2.38
3	MP1A	Mx	-.025	2.38
4	MP1A	X	27.34	3.63
5	MP1A	Z	-47.355	3.63
6	MP1A	Mx	-.025	3.63
7	MP1B	X	38.031	2.38
8	MP1B	Z	-65.871	2.38
9	MP1B	Mx	.027	2.38
10	MP1B	X	38.031	3.63
11	MP1B	Z	-65.871	3.63
12	MP1B	Mx	.027	3.63
13	MP1C	X	54.661	2.38
14	MP1C	Z	-94.676	2.38
15	MP1C	Mx	0	2.38
16	MP1C	X	54.661	3.63
17	MP1C	Z	-94.676	3.63
18	MP1C	Mx	0	3.63
19	MP2A	X	31.651	2
20	MP2A	Z	-54.821	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP2A	Mx	-.029	2
22	MP2B	X	36.286	2
23	MP2B	Z	-62.849	2
24	MP2B	Mx	.026	2
25	MP2C	X	43.496	2
26	MP2C	Z	-75.338	2
27	MP2C	Mx	0	2
28	MP3A	X	27.113	2
29	MP3A	Z	-46.962	2
30	MP3A	Mx	-.025	2
31	MP3B	X	33.524	2
32	MP3B	Z	-58.065	2
33	MP3B	Mx	.024	2
34	MP3C	X	43.496	2
35	MP3C	Z	-75.338	2
36	MP3C	Mx	0	2
37	MP5A	X	34.074	.25
38	MP5A	Z	-59.018	.25
39	MP5A	Mx	-.031	.25
40	MP5A	X	34.074	4.25
41	MP5A	Z	-59.018	4.25
42	MP5A	Mx	-.031	4.25
43	MP5B	X	35.416	.25
44	MP5B	Z	-61.342	.25
45	MP5B	Mx	.029	.25
46	MP5B	X	35.416	4.25
47	MP5B	Z	-61.342	4.25
48	MP5B	Mx	.029	4.25
49	MP5C	X	41.335	.25
50	MP5C	Z	-71.595	.25
51	MP5C	Mx	.004	.25
52	MP5C	X	41.335	4.25
53	MP5C	Z	-71.595	4.25
54	MP5C	Mx	.004	4.25
55	MP3A	X	68.5	.5
56	MP3A	Z	-118.645	.5
57	MP3A	Mx	-.101	.5
58	MP3A	X	68.5	5.5
59	MP3A	Z	-118.645	5.5
60	MP3A	Mx	-.101	5.5
61	MP3B	X	78.83	.5
62	MP3B	Z	-136.538	.5
63	MP3B	Mx	-.019	.5
64	MP3B	X	78.83	5.5
65	MP3B	Z	-136.538	5.5
66	MP3B	Mx	-.019	5.5
67	MP3C	X	94.901	.5
68	MP3C	Z	-164.374	.5
69	MP3C	Mx	.127	.5
70	MP3C	X	94.901	5.5
71	MP3C	Z	-164.374	5.5
72	MP3C	Mx	.127	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	68.5	.5
74	MP3A	Z	-118.645	.5
75	MP3A	Mx	-.023	.5
76	MP3A	X	68.5	5.5
77	MP3A	Z	-118.645	5.5
78	MP3A	Mx	-.023	5.5
79	MP3B	X	78.83	.5
80	MP3B	Z	-136.538	.5
81	MP3B	Mx	.13	.5
82	MP3B	X	78.83	5.5
83	MP3B	Z	-136.538	5.5
84	MP3B	Mx	.13	5.5
85	MP3C	X	94.901	.5
86	MP3C	Z	-164.374	.5
87	MP3C	Mx	-.127	.5
88	MP3C	X	94.901	5.5
89	MP3C	Z	-164.374	5.5
90	MP3C	Mx	-.127	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	37.503	2.38
2	MP1A	Z	-21.652	2.38
3	MP1A	Mx	-.022	2.38
4	MP1A	X	37.503	3.63
5	MP1A	Z	-21.652	3.63
6	MP1A	Mx	-.022	3.63
7	MP1B	X	90.817	2.38
8	MP1B	Z	-52.433	2.38
9	MP1B	Mx	.014	2.38
10	MP1B	X	90.817	3.63
11	MP1B	Z	-52.433	3.63
12	MP1B	Mx	.014	3.63
13	MP1C	X	80.273	2.38
14	MP1C	Z	-46.346	2.38
15	MP1C	Mx	.023	2.38
16	MP1C	X	80.273	3.63
17	MP1C	Z	-46.346	3.63
18	MP1C	Mx	.023	3.63
19	MP2A	X	50.549	2
20	MP2A	Z	-29.185	2
21	MP2A	Mx	-.029	2
22	MP2B	X	73.665	2
23	MP2B	Z	-42.53	2
24	MP2B	Mx	.011	2
25	MP2C	X	69.093	2
26	MP2C	Z	-39.891	2
27	MP2C	Mx	.02	2
28	MP3A	X	41.054	2
29	MP3A	Z	-23.702	2
30	MP3A	Mx	-.024	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	-92.748	5.5
84	MP3B	Mx	.143	5.5
85	MP3C	X	150.456	.5
86	MP3C	Z	-86.866	.5
87	MP3C	Mx	-.057	.5
88	MP3C	X	150.456	5.5
89	MP3C	Z	-86.866	5.5
90	MP3C	Mx	-.057	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	64.685	2.38
2	MP1A	Z	0	2.38
3	MP1A	Mx	-.026	2.38
4	MP1A	X	64.685	3.63
5	MP1A	Z	0	3.63
6	MP1A	Mx	-.026	3.63
7	MP1B	X	104.866	2.38
8	MP1B	Z	0	2.38
9	MP1B	Mx	-.014	2.38
10	MP1B	X	104.866	3.63
11	MP1B	Z	0	3.63
12	MP1B	Mx	-.014	3.63
13	MP1C	X	59.43	2.38
14	MP1C	Z	0	2.38
15	MP1C	Mx	.026	2.38
16	MP1C	X	59.43	3.63
17	MP1C	Z	0	3.63
18	MP1C	Mx	.026	3.63
19	MP2A	X	67.639	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.028	2
22	MP2B	X	85.061	2
23	MP2B	Z	0	2
24	MP2B	Mx	-.011	2
25	MP2C	X	65.361	2
26	MP2C	Z	0	2
27	MP2C	Mx	.028	2
28	MP3A	X	60.225	2
29	MP3A	Z	0	2
30	MP3A	Mx	-.025	2
31	MP3B	X	84.321	2
32	MP3B	Z	0	2
33	MP3B	Mx	-.011	2
34	MP3C	X	57.074	2
35	MP3C	Z	0	2
36	MP3C	Mx	.025	2
37	MP5A	X	70.832	.25
38	MP5A	Z	0	.25
39	MP5A	Mx	-.029	.25
40	MP5A	X	70.832	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	0	4.25
42	MP5A	Mx	-.029	4.25
43	MP5B	X	82.67	.25
44	MP5B	Z	0	.25
45	MP5B	Mx	-.004	.25
46	MP5B	X	82.67	4.25
47	MP5B	Z	0	4.25
48	MP5B	Mx	-.004	4.25
49	MP5C	X	68.149	.25
50	MP5C	Z	0	.25
51	MP5C	Mx	.031	.25
52	MP5C	X	68.149	4.25
53	MP5C	Z	0	4.25
54	MP5C	Mx	.031	4.25
55	MP3A	X	146.667	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	-.004	.5
58	MP3A	X	146.667	5.5
59	MP3A	Z	0	5.5
60	MP3A	Mx	-.004	5.5
61	MP3B	X	185.496	.5
62	MP3B	Z	0	.5
63	MP3B	Mx	-.143	.5
64	MP3B	X	185.496	5.5
65	MP3B	Z	0	5.5
66	MP3B	Mx	-.143	5.5
67	MP3C	X	141.589	.5
68	MP3C	Z	0	.5
69	MP3C	Mx	.109	.5
70	MP3C	X	141.589	5.5
71	MP3C	Z	0	5.5
72	MP3C	Mx	.109	5.5
73	MP3A	X	146.667	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	-.116	.5
76	MP3A	X	146.667	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	-.116	5.5
79	MP3B	X	185.496	.5
80	MP3B	Z	0	.5
81	MP3B	Mx	.095	.5
82	MP3B	X	185.496	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	.095	5.5
85	MP3C	X	141.589	.5
86	MP3C	Z	0	.5
87	MP3C	Mx	.014	.5
88	MP3C	X	141.589	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	.014	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	32.548	4.25
54	MP5C	Mx	.032	4.25
55	MP3A	X	154.43	.5
56	MP3A	Z	89.16	.5
57	MP3A	Mx	.07	.5
58	MP3A	X	154.43	5.5
59	MP3A	Z	89.16	5.5
60	MP3A	Mx	.07	5.5
61	MP3B	X	136.538	.5
62	MP3B	Z	78.83	.5
63	MP3B	Mx	-.13	.5
64	MP3B	X	136.538	5.5
65	MP3B	Z	78.83	5.5
66	MP3B	Mx	-.13	5.5
67	MP3C	X	108.702	.5
68	MP3C	Z	62.759	.5
69	MP3C	Mx	.063	.5
70	MP3C	X	108.702	5.5
71	MP3C	Z	62.759	5.5
72	MP3C	Mx	.063	5.5
73	MP3A	X	154.43	.5
74	MP3A	Z	89.16	.5
75	MP3A	Mx	-.145	.5
76	MP3A	X	154.43	5.5
77	MP3A	Z	89.16	5.5
78	MP3A	Mx	-.145	5.5
79	MP3B	X	136.538	.5
80	MP3B	Z	78.83	.5
81	MP3B	Mx	.019	.5
82	MP3B	X	136.538	5.5
83	MP3B	Z	78.83	5.5
84	MP3B	Mx	.019	5.5
85	MP3C	X	108.702	.5
86	MP3C	Z	62.759	.5
87	MP3C	Mx	.063	.5
88	MP3C	X	108.702	5.5
89	MP3C	Z	62.759	5.5
90	MP3C	Mx	.063	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	54.409	2.38
2	MP1A	Z	94.238	2.38
3	MP1A	Mx	.005	2.38
4	MP1A	X	54.409	3.63
5	MP1A	Z	94.238	3.63
6	MP1A	Mx	.005	3.63
7	MP1B	X	23.628	2.38
8	MP1B	Z	40.925	2.38
9	MP1B	Mx	-.023	2.38
10	MP1B	X	23.628	3.63

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	40.925	3.63
12	MP1B	Mx	-.023	3.63
13	MP1C	X	29.715	2.38
14	MP1C	Z	51.468	2.38
15	MP1C	Mx	.026	2.38
16	MP1C	X	29.715	3.63
17	MP1C	Z	51.468	3.63
18	MP1C	Mx	.026	3.63
19	MP2A	X	43.387	2
20	MP2A	Z	75.148	2
21	MP2A	Mx	.004	2
22	MP2B	X	30.041	2
23	MP2B	Z	52.033	2
24	MP2B	Mx	-.029	2
25	MP2C	X	32.68	2
26	MP2C	Z	56.604	2
27	MP2C	Mx	.028	2
28	MP3A	X	43.345	2
29	MP3A	Z	75.076	2
30	MP3A	Mx	.004	2
31	MP3B	X	24.887	2
32	MP3B	Z	43.105	2
33	MP3B	Mx	-.024	2
34	MP3C	X	28.537	2
35	MP3C	Z	49.428	2
36	MP3C	Mx	.025	2
37	MP5A	X	41.335	.25
38	MP5A	Z	71.595	.25
39	MP5A	Mx	.004	.25
40	MP5A	X	41.335	4.25
41	MP5A	Z	71.595	4.25
42	MP5A	Mx	.004	4.25
43	MP5B	X	34.074	.25
44	MP5B	Z	59.018	.25
45	MP5B	Mx	-.031	.25
46	MP5B	X	34.074	4.25
47	MP5B	Z	59.018	4.25
48	MP5B	Mx	-.031	4.25
49	MP5C	X	35.416	.25
50	MP5C	Z	61.342	.25
51	MP5C	Mx	.029	.25
52	MP5C	X	35.416	4.25
53	MP5C	Z	61.342	4.25
54	MP5C	Mx	.029	4.25
55	MP3A	X	94.657	.5
56	MP3A	Z	163.951	.5
57	MP3A	Mx	.134	.5
58	MP3A	X	94.657	5.5
59	MP3A	Z	163.951	5.5
60	MP3A	Mx	.134	5.5
61	MP3B	X	64.912	.5
62	MP3B	Z	112.431	.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	-.085	.5
64	MP3B	X	64.912	5.5
65	MP3B	Z	112.431	5.5
66	MP3B	Mx	-.085	5.5
67	MP3C	X	70.794	.5
68	MP3C	Z	122.62	.5
69	MP3C	Mx	.014	.5
70	MP3C	X	70.794	5.5
71	MP3C	Z	122.62	5.5
72	MP3C	Mx	.014	5.5
73	MP3A	X	94.657	.5
74	MP3A	Z	163.951	.5
75	MP3A	Mx	-.117	.5
76	MP3A	X	94.657	5.5
77	MP3A	Z	163.951	5.5
78	MP3A	Mx	-.117	5.5
79	MP3B	X	64.912	.5
80	MP3B	Z	112.431	.5
81	MP3B	Mx	-.04	.5
82	MP3B	X	64.912	5.5
83	MP3B	Z	112.431	5.5
84	MP3B	Mx	-.04	5.5
85	MP3C	X	70.794	.5
86	MP3C	Z	122.62	.5
87	MP3C	Mx	.109	.5
88	MP3C	X	70.794	5.5
89	MP3C	Z	122.62	5.5
90	MP3C	Mx	.109	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.38
2	MP1A	Z	87.437	2.38
3	MP1A	Mx	.025	2.38
4	MP1A	X	0	3.63
5	MP1A	Z	87.437	3.63
6	MP1A	Mx	.025	3.63
7	MP1B	X	0	2.38
8	MP1B	Z	47.256	2.38
9	MP1B	Mx	-.023	2.38
10	MP1B	X	0	3.63
11	MP1B	Z	47.256	3.63
12	MP1B	Mx	-.023	3.63
13	MP1C	X	0	2.38
14	MP1C	Z	92.692	2.38
15	MP1C	Mx	.023	2.38
16	MP1C	X	0	3.63
17	MP1C	Z	92.692	3.63
18	MP1C	Mx	.023	3.63
19	MP2A	X	0	2
20	MP2A	Z	77.504	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP2A	Mx	.022	2
22	MP2B	X	0	2
23	MP2B	Z	60.082	2
24	MP2B	Mx	-.029	2
25	MP2C	X	0	2
26	MP2C	Z	79.782	2
27	MP2C	Mx	.02	2
28	MP3A	X	0	2
29	MP3A	Z	73.869	2
30	MP3A	Mx	.021	2
31	MP3B	X	0	2
32	MP3B	Z	49.774	2
33	MP3B	Mx	-.024	2
34	MP3C	X	0	2
35	MP3C	Z	77.02	2
36	MP3C	Mx	.019	2
37	MP5A	X	0	.25
38	MP5A	Z	76.935	.25
39	MP5A	Mx	.022	.25
40	MP5A	X	0	4.25
41	MP5A	Z	76.935	4.25
42	MP5A	Mx	.022	4.25
43	MP5B	X	0	.25
44	MP5B	Z	65.097	.25
45	MP5B	Mx	-.032	.25
46	MP5B	X	0	4.25
47	MP5B	Z	65.097	4.25
48	MP5B	Mx	-.032	4.25
49	MP5C	X	0	.25
50	MP5C	Z	79.619	.25
51	MP5C	Mx	.017	.25
52	MP5C	X	0	4.25
53	MP5C	Z	79.619	4.25
54	MP5C	Mx	.017	4.25
55	MP3A	X	0	.5
56	MP3A	Z	168.653	.5
57	MP3A	Mx	.14	.5
58	MP3A	X	0	5.5
59	MP3A	Z	168.653	5.5
60	MP3A	Mx	.14	5.5
61	MP3B	X	0	.5
62	MP3B	Z	129.824	.5
63	MP3B	Mx	-.04	.5
64	MP3B	X	0	5.5
65	MP3B	Z	129.824	5.5
66	MP3B	Mx	-.04	5.5
67	MP3C	X	0	.5
68	MP3C	Z	173.731	.5
69	MP3C	Mx	-.057	.5
70	MP3C	X	0	5.5
71	MP3C	Z	173.731	5.5
72	MP3C	Mx	-.057	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	0	.5
74	MP3A	Z	168.653	.5
75	MP3A	Mx	-.044	.5
76	MP3A	X	0	5.5
77	MP3A	Z	168.653	5.5
78	MP3A	Mx	-.044	5.5
79	MP3B	X	0	.5
80	MP3B	Z	129.824	.5
81	MP3B	Mx	-.085	.5
82	MP3B	X	0	5.5
83	MP3B	Z	129.824	5.5
84	MP3B	Mx	-.085	5.5
85	MP3C	X	0	.5
86	MP3C	Z	173.731	.5
87	MP3C	Mx	.144	.5
88	MP3C	X	0	5.5
89	MP3C	Z	173.731	5.5
90	MP3C	Mx	.144	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-27.34	2.38
2	MP1A	Z	47.355	2.38
3	MP1A	Mx	.025	2.38
4	MP1A	X	-27.34	3.63
5	MP1A	Z	47.355	3.63
6	MP1A	Mx	.025	3.63
7	MP1B	X	-38.031	2.38
8	MP1B	Z	65.871	2.38
9	MP1B	Mx	-.027	2.38
10	MP1B	X	-38.031	3.63
11	MP1B	Z	65.871	3.63
12	MP1B	Mx	-.027	3.63
13	MP1C	X	-54.661	2.38
14	MP1C	Z	94.676	2.38
15	MP1C	Mx	0	2.38
16	MP1C	X	-54.661	3.63
17	MP1C	Z	94.676	3.63
18	MP1C	Mx	0	3.63
19	MP2A	X	-31.651	2
20	MP2A	Z	54.821	2
21	MP2A	Mx	.029	2
22	MP2B	X	-36.286	2
23	MP2B	Z	62.849	2
24	MP2B	Mx	-.026	2
25	MP2C	X	-43.496	2
26	MP2C	Z	75.338	2
27	MP2C	Mx	0	2
28	MP3A	X	-27.113	2
29	MP3A	Z	46.962	2
30	MP3A	Mx	.025	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP3B	X	-33.524	2
32	MP3B	Z	58.065	2
33	MP3B	Mx	-.024	2
34	MP3C	X	-43.496	2
35	MP3C	Z	75.338	2
36	MP3C	Mx	0	2
37	MP5A	X	-34.074	.25
38	MP5A	Z	59.018	.25
39	MP5A	Mx	.031	.25
40	MP5A	X	-34.074	4.25
41	MP5A	Z	59.018	4.25
42	MP5A	Mx	.031	4.25
43	MP5B	X	-35.416	.25
44	MP5B	Z	61.342	.25
45	MP5B	Mx	-.029	.25
46	MP5B	X	-35.416	4.25
47	MP5B	Z	61.342	4.25
48	MP5B	Mx	-.029	4.25
49	MP5C	X	-41.335	.25
50	MP5C	Z	71.595	.25
51	MP5C	Mx	-.004	.25
52	MP5C	X	-41.335	4.25
53	MP5C	Z	71.595	4.25
54	MP5C	Mx	-.004	4.25
55	MP3A	X	-68.5	.5
56	MP3A	Z	118.645	.5
57	MP3A	Mx	.101	.5
58	MP3A	X	-68.5	5.5
59	MP3A	Z	118.645	5.5
60	MP3A	Mx	.101	5.5
61	MP3B	X	-78.83	.5
62	MP3B	Z	136.538	.5
63	MP3B	Mx	.019	.5
64	MP3B	X	-78.83	5.5
65	MP3B	Z	136.538	5.5
66	MP3B	Mx	.019	5.5
67	MP3C	X	-94.901	.5
68	MP3C	Z	164.374	.5
69	MP3C	Mx	-.127	.5
70	MP3C	X	-94.901	5.5
71	MP3C	Z	164.374	5.5
72	MP3C	Mx	-.127	5.5
73	MP3A	X	-68.5	.5
74	MP3A	Z	118.645	.5
75	MP3A	Mx	.023	.5
76	MP3A	X	-68.5	5.5
77	MP3A	Z	118.645	5.5
78	MP3A	Mx	.023	5.5
79	MP3B	X	-78.83	.5
80	MP3B	Z	136.538	.5
81	MP3B	Mx	-.13	.5
82	MP3B	X	-78.83	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	136.538	5.5
84	MP3B	Mx	-.13	5.5
85	MP3C	X	-94.901	.5
86	MP3C	Z	164.374	.5
87	MP3C	Mx	.127	.5
88	MP3C	X	-94.901	5.5
89	MP3C	Z	164.374	5.5
90	MP3C	Mx	.127	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-37.503	2.38
2	MP1A	Z	21.652	2.38
3	MP1A	Mx	.022	2.38
4	MP1A	X	-37.503	3.63
5	MP1A	Z	21.652	3.63
6	MP1A	Mx	.022	3.63
7	MP1B	X	-90.817	2.38
8	MP1B	Z	52.433	2.38
9	MP1B	Mx	-.014	2.38
10	MP1B	X	-90.817	3.63
11	MP1B	Z	52.433	3.63
12	MP1B	Mx	-.014	3.63
13	MP1C	X	-80.273	2.38
14	MP1C	Z	46.346	2.38
15	MP1C	Mx	-.023	2.38
16	MP1C	X	-80.273	3.63
17	MP1C	Z	46.346	3.63
18	MP1C	Mx	-.023	3.63
19	MP2A	X	-50.549	2
20	MP2A	Z	29.185	2
21	MP2A	Mx	.029	2
22	MP2B	X	-73.665	2
23	MP2B	Z	42.53	2
24	MP2B	Mx	-.011	2
25	MP2C	X	-69.093	2
26	MP2C	Z	39.891	2
27	MP2C	Mx	-.02	2
28	MP3A	X	-41.054	2
29	MP3A	Z	23.702	2
30	MP3A	Mx	.024	2
31	MP3B	X	-73.024	2
32	MP3B	Z	42.16	2
33	MP3B	Mx	-.011	2
34	MP3C	X	-66.701	2
35	MP3C	Z	38.51	2
36	MP3C	Mx	-.019	2
37	MP5A	X	-56.376	.25
38	MP5A	Z	32.548	.25
39	MP5A	Mx	.032	.25
40	MP5A	X	-56.376	4.25

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
41	MP5A	Z	32.548	4.25
42	MP5A	Mx	.032	4.25
43	MP5B	X	-68.952	.25
44	MP5B	Z	39.809	.25
45	MP5B	Mx	-.017	.25
46	MP5B	X	-68.952	4.25
47	MP5B	Z	39.809	4.25
48	MP5B	Mx	-.017	4.25
49	MP5C	X	-66.628	.25
50	MP5C	Z	38.468	.25
51	MP5C	Mx	-.022	.25
52	MP5C	X	-66.628	4.25
53	MP5C	Z	38.468	4.25
54	MP5C	Mx	-.022	4.25
55	MP3A	X	-109.124	.5
56	MP3A	Z	63.003	.5
57	MP3A	Mx	.055	.5
58	MP3A	X	-109.124	5.5
59	MP3A	Z	63.003	5.5
60	MP3A	Mx	.055	5.5
61	MP3B	X	-160.644	.5
62	MP3B	Z	92.748	.5
63	MP3B	Mx	.095	.5
64	MP3B	X	-160.644	5.5
65	MP3B	Z	92.748	5.5
66	MP3B	Mx	.095	5.5
67	MP3C	X	-150.456	.5
68	MP3C	Z	86.866	.5
69	MP3C	Mx	-.144	.5
70	MP3C	X	-150.456	5.5
71	MP3C	Z	86.866	5.5
72	MP3C	Mx	-.144	5.5
73	MP3A	X	-109.124	.5
74	MP3A	Z	63.003	.5
75	MP3A	Mx	.07	.5
76	MP3A	X	-109.124	5.5
77	MP3A	Z	63.003	5.5
78	MP3A	Mx	.07	5.5
79	MP3B	X	-160.644	.5
80	MP3B	Z	92.748	.5
81	MP3B	Mx	-.143	.5
82	MP3B	X	-160.644	5.5
83	MP3B	Z	92.748	5.5
84	MP3B	Mx	-.143	5.5
85	MP3C	X	-150.456	.5
86	MP3C	Z	86.866	.5
87	MP3C	Mx	.057	.5
88	MP3C	X	-150.456	5.5
89	MP3C	Z	86.866	5.5
90	MP3C	Mx	.057	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-64.685	2.38
2	MP1A	Z	0	2.38
3	MP1A	Mx	.026	2.38
4	MP1A	X	-64.685	3.63
5	MP1A	Z	0	3.63
6	MP1A	Mx	.026	3.63
7	MP1B	X	-104.866	2.38
8	MP1B	Z	0	2.38
9	MP1B	Mx	.014	2.38
10	MP1B	X	-104.866	3.63
11	MP1B	Z	0	3.63
12	MP1B	Mx	.014	3.63
13	MP1C	X	-59.43	2.38
14	MP1C	Z	0	2.38
15	MP1C	Mx	-.026	2.38
16	MP1C	X	-59.43	3.63
17	MP1C	Z	0	3.63
18	MP1C	Mx	-.026	3.63
19	MP2A	X	-67.639	2
20	MP2A	Z	0	2
21	MP2A	Mx	.028	2
22	MP2B	X	-85.061	2
23	MP2B	Z	0	2
24	MP2B	Mx	.011	2
25	MP2C	X	-65.361	2
26	MP2C	Z	0	2
27	MP2C	Mx	-.028	2
28	MP3A	X	-60.225	2
29	MP3A	Z	0	2
30	MP3A	Mx	.025	2
31	MP3B	X	-84.321	2
32	MP3B	Z	0	2
33	MP3B	Mx	.011	2
34	MP3C	X	-57.074	2
35	MP3C	Z	0	2
36	MP3C	Mx	-.025	2
37	MP5A	X	-70.832	.25
38	MP5A	Z	0	.25
39	MP5A	Mx	.029	.25
40	MP5A	X	-70.832	4.25
41	MP5A	Z	0	4.25
42	MP5A	Mx	.029	4.25
43	MP5B	X	-82.67	.25
44	MP5B	Z	0	.25
45	MP5B	Mx	.004	.25
46	MP5B	X	-82.67	4.25
47	MP5B	Z	0	4.25
48	MP5B	Mx	.004	4.25
49	MP5C	X	-68.149	.25
50	MP5C	Z	0	.25
51	MP5C	Mx	-.031	.25
52	MP5C	X	-68.149	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	0	4.25
54	MP5C	Mx	-.031	4.25
55	MP3A	X	-146.667	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	.004	.5
58	MP3A	X	-146.667	5.5
59	MP3A	Z	0	5.5
60	MP3A	Mx	.004	5.5
61	MP3B	X	-185.496	.5
62	MP3B	Z	0	.5
63	MP3B	Mx	.143	.5
64	MP3B	X	-185.496	5.5
65	MP3B	Z	0	5.5
66	MP3B	Mx	.143	5.5
67	MP3C	X	-141.589	.5
68	MP3C	Z	0	.5
69	MP3C	Mx	-.109	.5
70	MP3C	X	-141.589	5.5
71	MP3C	Z	0	5.5
72	MP3C	Mx	-.109	5.5
73	MP3A	X	-146.667	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	.116	.5
76	MP3A	X	-146.667	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	.116	5.5
79	MP3B	X	-185.496	.5
80	MP3B	Z	0	.5
81	MP3B	Mx	-.095	.5
82	MP3B	X	-185.496	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	-.095	5.5
85	MP3C	X	-141.589	.5
86	MP3C	Z	0	.5
87	MP3C	Mx	-.014	.5
88	MP3C	X	-141.589	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	-.014	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-84.386	2.38
2	MP1A	Z	-48.721	2.38
3	MP1A	Mx	.021	2.38
4	MP1A	X	-84.386	3.63
5	MP1A	Z	-48.721	3.63
6	MP1A	Mx	.021	3.63
7	MP1B	X	-65.871	2.38
8	MP1B	Z	-38.031	2.38
9	MP1B	Mx	.027	2.38
10	MP1B	X	-65.871	3.63

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP1B	Z	-38.031	3.63
12	MP1B	Mx	.027	3.63
13	MP1C	X	-37.066	2.38
14	MP1C	Z	-21.4	2.38
15	MP1C	Mx	-.021	2.38
16	MP1C	X	-37.066	3.63
17	MP1C	Z	-21.4	3.63
18	MP1C	Mx	-.021	3.63
19	MP2A	X	-70.877	2
20	MP2A	Z	-40.921	2
21	MP2A	Mx	.017	2
22	MP2B	X	-62.849	2
23	MP2B	Z	-36.286	2
24	MP2B	Mx	.026	2
25	MP2C	X	-50.36	2
26	MP2C	Z	-29.075	2
27	MP2C	Mx	-.029	2
28	MP3A	X	-69.168	2
29	MP3A	Z	-39.934	2
30	MP3A	Mx	.017	2
31	MP3B	X	-58.065	2
32	MP3B	Z	-33.524	2
33	MP3B	Mx	.024	2
34	MP3C	X	-40.791	2
35	MP3C	Z	-23.551	2
36	MP3C	Mx	-.024	2
37	MP5A	X	-68.952	.25
38	MP5A	Z	-39.809	.25
39	MP5A	Mx	.017	.25
40	MP5A	X	-68.952	4.25
41	MP5A	Z	-39.809	4.25
42	MP5A	Mx	.017	4.25
43	MP5B	X	-66.628	.25
44	MP5B	Z	-38.468	.25
45	MP5B	Mx	.022	.25
46	MP5B	X	-66.628	4.25
47	MP5B	Z	-38.468	4.25
48	MP5B	Mx	.022	4.25
49	MP5C	X	-56.376	.25
50	MP5C	Z	-32.548	.25
51	MP5C	Mx	-.032	.25
52	MP5C	X	-56.376	4.25
53	MP5C	Z	-32.548	4.25
54	MP5C	Mx	-.032	4.25
55	MP3A	X	-154.43	.5
56	MP3A	Z	-89.16	.5
57	MP3A	Mx	-.07	.5
58	MP3A	X	-154.43	5.5
59	MP3A	Z	-89.16	5.5
60	MP3A	Mx	-.07	5.5
61	MP3B	X	-136.538	.5
62	MP3B	Z	-78.83	.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	.13	.5
64	MP3B	X	-136.538	5.5
65	MP3B	Z	-78.83	5.5
66	MP3B	Mx	.13	5.5
67	MP3C	X	-108.702	.5
68	MP3C	Z	-62.759	.5
69	MP3C	Mx	-.063	.5
70	MP3C	X	-108.702	5.5
71	MP3C	Z	-62.759	5.5
72	MP3C	Mx	-.063	5.5
73	MP3A	X	-154.43	.5
74	MP3A	Z	-89.16	.5
75	MP3A	Mx	.145	.5
76	MP3A	X	-154.43	5.5
77	MP3A	Z	-89.16	5.5
78	MP3A	Mx	.145	5.5
79	MP3B	X	-136.538	.5
80	MP3B	Z	-78.83	.5
81	MP3B	Mx	-.019	.5
82	MP3B	X	-136.538	5.5
83	MP3B	Z	-78.83	5.5
84	MP3B	Mx	-.019	5.5
85	MP3C	X	-108.702	.5
86	MP3C	Z	-62.759	.5
87	MP3C	Mx	-.063	.5
88	MP3C	X	-108.702	5.5
89	MP3C	Z	-62.759	5.5
90	MP3C	Mx	-.063	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-54.409	2.38
2	MP1A	Z	-94.238	2.38
3	MP1A	Mx	-.005	2.38
4	MP1A	X	-54.409	3.63
5	MP1A	Z	-94.238	3.63
6	MP1A	Mx	-.005	3.63
7	MP1B	X	-23.628	2.38
8	MP1B	Z	-40.925	2.38
9	MP1B	Mx	.023	2.38
10	MP1B	X	-23.628	3.63
11	MP1B	Z	-40.925	3.63
12	MP1B	Mx	.023	3.63
13	MP1C	X	-29.715	2.38
14	MP1C	Z	-51.468	2.38
15	MP1C	Mx	-.026	2.38
16	MP1C	X	-29.715	3.63
17	MP1C	Z	-51.468	3.63
18	MP1C	Mx	-.026	3.63
19	MP2A	X	-43.387	2
20	MP2A	Z	-75.148	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP2A	Mx	-.004	2
22	MP2B	X	-30.041	2
23	MP2B	Z	-52.033	2
24	MP2B	Mx	.029	2
25	MP2C	X	-32.68	2
26	MP2C	Z	-56.604	2
27	MP2C	Mx	-.028	2
28	MP3A	X	-43.345	2
29	MP3A	Z	-75.076	2
30	MP3A	Mx	-.004	2
31	MP3B	X	-24.887	2
32	MP3B	Z	-43.105	2
33	MP3B	Mx	.024	2
34	MP3C	X	-28.537	2
35	MP3C	Z	-49.428	2
36	MP3C	Mx	-.025	2
37	MP5A	X	-41.335	.25
38	MP5A	Z	-71.595	.25
39	MP5A	Mx	-.004	.25
40	MP5A	X	-41.335	4.25
41	MP5A	Z	-71.595	4.25
42	MP5A	Mx	-.004	4.25
43	MP5B	X	-34.074	.25
44	MP5B	Z	-59.018	.25
45	MP5B	Mx	.031	.25
46	MP5B	X	-34.074	4.25
47	MP5B	Z	-59.018	4.25
48	MP5B	Mx	.031	4.25
49	MP5C	X	-35.416	.25
50	MP5C	Z	-61.342	.25
51	MP5C	Mx	-.029	.25
52	MP5C	X	-35.416	4.25
53	MP5C	Z	-61.342	4.25
54	MP5C	Mx	-.029	4.25
55	MP3A	X	-94.657	.5
56	MP3A	Z	-163.951	.5
57	MP3A	Mx	-.134	.5
58	MP3A	X	-94.657	5.5
59	MP3A	Z	-163.951	5.5
60	MP3A	Mx	-.134	5.5
61	MP3B	X	-64.912	.5
62	MP3B	Z	-112.431	.5
63	MP3B	Mx	.085	.5
64	MP3B	X	-64.912	5.5
65	MP3B	Z	-112.431	5.5
66	MP3B	Mx	.085	5.5
67	MP3C	X	-70.794	.5
68	MP3C	Z	-122.62	.5
69	MP3C	Mx	-.014	.5
70	MP3C	X	-70.794	5.5
71	MP3C	Z	-122.62	5.5
72	MP3C	Mx	-.014	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	-94.657	.5
74	MP3A	Z	-163.951	.5
75	MP3A	Mx	.117	.5
76	MP3A	X	-94.657	5.5
77	MP3A	Z	-163.951	5.5
78	MP3A	Mx	.117	5.5
79	MP3B	X	-64.912	.5
80	MP3B	Z	-112.431	.5
81	MP3B	Mx	.04	.5
82	MP3B	X	-64.912	5.5
83	MP3B	Z	-112.431	5.5
84	MP3B	Mx	.04	5.5
85	MP3C	X	-70.794	.5
86	MP3C	Z	-122.62	.5
87	MP3C	Mx	-.109	.5
88	MP3C	X	-70.794	5.5
89	MP3C	Z	-122.62	5.5
90	MP3C	Mx	-.109	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.38
2	MP1A	Z	-16.319	2.38
3	MP1A	Mx	-.005	2.38
4	MP1A	X	0	3.63
5	MP1A	Z	-16.319	3.63
6	MP1A	Mx	-.005	3.63
7	MP1B	X	0	2.38
8	MP1B	Z	-9.351	2.38
9	MP1B	Mx	.005	2.38
10	MP1B	X	0	3.63
11	MP1B	Z	-9.351	3.63
12	MP1B	Mx	.005	3.63
13	MP1C	X	0	2.38
14	MP1C	Z	-17.23	2.38
15	MP1C	Mx	-.004	2.38
16	MP1C	X	0	3.63
17	MP1C	Z	-17.23	3.63
18	MP1C	Mx	-.004	3.63
19	MP2A	X	0	2
20	MP2A	Z	-15.268	2
21	MP2A	Mx	-.004	2
22	MP2B	X	0	2
23	MP2B	Z	-12.153	2
24	MP2B	Mx	.006	2
25	MP2C	X	0	2
26	MP2C	Z	-15.676	2
27	MP2C	Mx	-.004	2
28	MP3A	X	0	2
29	MP3A	Z	-14.624	2
30	MP3A	Mx	-.004	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP3B	X	0	2
32	MP3B	Z	-10.324	2
33	MP3B	Mx	.005	2
34	MP3C	X	0	2
35	MP3C	Z	-15.186	2
36	MP3C	Mx	-.004	2
37	MP5A	X	0	.25
38	MP5A	Z	-14.685	.25
39	MP5A	Mx	-.004	.25
40	MP5A	X	0	4.25
41	MP5A	Z	-14.685	4.25
42	MP5A	Mx	-.004	4.25
43	MP5B	X	0	.25
44	MP5B	Z	-12.685	.25
45	MP5B	Mx	.006	.25
46	MP5B	X	0	4.25
47	MP5B	Z	-12.685	4.25
48	MP5B	Mx	.006	4.25
49	MP5C	X	0	.25
50	MP5C	Z	-15.139	.25
51	MP5C	Mx	-.003	.25
52	MP5C	X	0	4.25
53	MP5C	Z	-15.139	4.25
54	MP5C	Mx	-.003	4.25
55	MP3A	X	0	.5
56	MP3A	Z	-30.603	.5
57	MP3A	Mx	-.025	.5
58	MP3A	X	0	5.5
59	MP3A	Z	-30.603	5.5
60	MP3A	Mx	-.025	5.5
61	MP3B	X	0	.5
62	MP3B	Z	-24.223	.5
63	MP3B	Mx	.008	.5
64	MP3B	X	0	5.5
65	MP3B	Z	-24.223	5.5
66	MP3B	Mx	.008	5.5
67	MP3C	X	0	.5
68	MP3C	Z	-31.437	.5
69	MP3C	Mx	.01	.5
70	MP3C	X	0	5.5
71	MP3C	Z	-31.437	5.5
72	MP3C	Mx	.01	5.5
73	MP3A	X	0	.5
74	MP3A	Z	-30.603	.5
75	MP3A	Mx	.008	.5
76	MP3A	X	0	5.5
77	MP3A	Z	-30.603	5.5
78	MP3A	Mx	.008	5.5
79	MP3B	X	0	.5
80	MP3B	Z	-24.223	.5
81	MP3B	Mx	.016	.5
82	MP3B	X	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	-24.223	5.5
84	MP3B	Mx	.016	5.5
85	MP3C	X	0	.5
86	MP3C	Z	-31.437	.5
87	MP3C	Mx	-.026	.5
88	MP3C	X	0	5.5
89	MP3C	Z	-31.437	5.5
90	MP3C	Mx	-.026	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.319	2.38
2	MP1A	Z	-9.213	2.38
3	MP1A	Mx	-.005	2.38
4	MP1A	X	5.319	3.63
5	MP1A	Z	-9.213	3.63
6	MP1A	Mx	-.005	3.63
7	MP1B	X	7.173	2.38
8	MP1B	Z	-12.424	2.38
9	MP1B	Mx	.005	2.38
10	MP1B	X	7.173	3.63
11	MP1B	Z	-12.424	3.63
12	MP1B	Mx	.005	3.63
13	MP1C	X	10.057	2.38
14	MP1C	Z	-17.419	2.38
15	MP1C	Mx	0	2.38
16	MP1C	X	10.057	3.63
17	MP1C	Z	-17.419	3.63
18	MP1C	Mx	0	3.63
19	MP2A	X	6.364	2
20	MP2A	Z	-11.023	2
21	MP2A	Mx	-.006	2
22	MP2B	X	7.193	2
23	MP2B	Z	-12.459	2
24	MP2B	Mx	.005	2
25	MP2C	X	8.483	2
26	MP2C	Z	-14.692	2
27	MP2C	Mx	0	2
28	MP3A	X	5.559	2
29	MP3A	Z	-9.629	2
30	MP3A	Mx	-.005	2
31	MP3B	X	6.703	2
32	MP3B	Z	-11.61	2
33	MP3B	Mx	.005	2
34	MP3C	X	8.483	2
35	MP3C	Z	-14.692	2
36	MP3C	Mx	0	2
37	MP5A	X	6.6	.25
38	MP5A	Z	-11.432	.25
39	MP5A	Mx	-.006	.25
40	MP5A	X	6.6	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	-11.432	4.25
42	MP5A	Mx	-.006	4.25
43	MP5B	X	6.827	.25
44	MP5B	Z	-11.824	.25
45	MP5B	Mx	.006	.25
46	MP5B	X	6.827	4.25
47	MP5B	Z	-11.824	4.25
48	MP5B	Mx	.006	4.25
49	MP5C	X	7.827	.25
50	MP5C	Z	-13.557	.25
51	MP5C	Mx	.000682	.25
52	MP5C	X	7.827	4.25
53	MP5C	Z	-13.557	4.25
54	MP5C	Mx	.000682	4.25
55	MP3A	X	12.701	.5
56	MP3A	Z	-21.999	.5
57	MP3A	Mx	-.019	.5
58	MP3A	X	12.701	5.5
59	MP3A	Z	-21.999	5.5
60	MP3A	Mx	-.019	5.5
61	MP3B	X	14.398	.5
62	MP3B	Z	-24.939	.5
63	MP3B	Mx	-.003	.5
64	MP3B	X	14.398	5.5
65	MP3B	Z	-24.939	5.5
66	MP3B	Mx	-.003	5.5
67	MP3C	X	17.039	.5
68	MP3C	Z	-29.512	.5
69	MP3C	Mx	.023	.5
70	MP3C	X	17.039	5.5
71	MP3C	Z	-29.512	5.5
72	MP3C	Mx	.023	5.5
73	MP3A	X	12.701	.5
74	MP3A	Z	-21.999	.5
75	MP3A	Mx	-.004	.5
76	MP3A	X	12.701	5.5
77	MP3A	Z	-21.999	5.5
78	MP3A	Mx	-.004	5.5
79	MP3B	X	14.398	.5
80	MP3B	Z	-24.939	.5
81	MP3B	Mx	.024	.5
82	MP3B	X	14.398	5.5
83	MP3B	Z	-24.939	5.5
84	MP3B	Mx	.024	5.5
85	MP3C	X	17.039	.5
86	MP3C	Z	-29.512	.5
87	MP3C	Mx	-.023	.5
88	MP3C	X	17.039	5.5
89	MP3C	Z	-29.512	5.5
90	MP3C	Mx	-.023	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	7.505	2.38
2	MP1A	Z	-4.333	2.38
3	MP1A	Mx	-.004	2.38
4	MP1A	X	7.505	3.63
5	MP1A	Z	-4.333	3.63
6	MP1A	Mx	-.004	3.63
7	MP1B	X	16.75	2.38
8	MP1B	Z	-9.67	2.38
9	MP1B	Mx	.003	2.38
10	MP1B	X	16.75	3.63
11	MP1B	Z	-9.67	3.63
12	MP1B	Mx	.003	3.63
13	MP1C	X	14.921	2.38
14	MP1C	Z	-8.615	2.38
15	MP1C	Mx	.004	2.38
16	MP1C	X	14.921	3.63
17	MP1C	Z	-8.615	3.63
18	MP1C	Mx	.004	3.63
19	MP2A	X	10.26	2
20	MP2A	Z	-5.923	2
21	MP2A	Mx	-.006	2
22	MP2B	X	14.393	2
23	MP2B	Z	-8.31	2
24	MP2B	Mx	.002	2
25	MP2C	X	13.576	2
26	MP2C	Z	-7.838	2
27	MP2C	Mx	.004	2
28	MP3A	X	8.575	2
29	MP3A	Z	-4.951	2
30	MP3A	Mx	-.005	2
31	MP3B	X	14.279	2
32	MP3B	Z	-8.244	2
33	MP3B	Mx	.002	2
34	MP3C	X	13.151	2
35	MP3C	Z	-7.593	2
36	MP3C	Mx	.004	2
37	MP5A	X	10.985	.25
38	MP5A	Z	-6.342	.25
39	MP5A	Mx	-.006	.25
40	MP5A	X	10.985	4.25
41	MP5A	Z	-6.342	4.25
42	MP5A	Mx	-.006	4.25
43	MP5B	X	13.11	.25
44	MP5B	Z	-7.569	.25
45	MP5B	Mx	.003	.25
46	MP5B	X	13.11	4.25
47	MP5B	Z	-7.569	4.25
48	MP5B	Mx	.003	4.25
49	MP5C	X	12.718	.25
50	MP5C	Z	-7.343	.25
51	MP5C	Mx	.004	.25
52	MP5C	X	12.718	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	-7.343	4.25
54	MP5C	Mx	.004	4.25
55	MP3A	X	20.435	.5
56	MP3A	Z	-11.798	.5
57	MP3A	Mx	-.01	.5
58	MP3A	X	20.435	5.5
59	MP3A	Z	-11.798	5.5
60	MP3A	Mx	-.01	5.5
61	MP3B	X	28.9	.5
62	MP3B	Z	-16.685	.5
63	MP3B	Mx	-.017	.5
64	MP3B	X	28.9	5.5
65	MP3B	Z	-16.685	5.5
66	MP3B	Mx	-.017	5.5
67	MP3C	X	27.225	.5
68	MP3C	Z	-15.719	.5
69	MP3C	Mx	.026	.5
70	MP3C	X	27.225	5.5
71	MP3C	Z	-15.719	5.5
72	MP3C	Mx	.026	5.5
73	MP3A	X	20.435	.5
74	MP3A	Z	-11.798	.5
75	MP3A	Mx	-.013	.5
76	MP3A	X	20.435	5.5
77	MP3A	Z	-11.798	5.5
78	MP3A	Mx	-.013	5.5
79	MP3B	X	28.9	.5
80	MP3B	Z	-16.685	.5
81	MP3B	Mx	.026	.5
82	MP3B	X	28.9	5.5
83	MP3B	Z	-16.685	5.5
84	MP3B	Mx	.026	5.5
85	MP3C	X	27.225	.5
86	MP3C	Z	-15.719	.5
87	MP3C	Mx	-.01	.5
88	MP3C	X	27.225	5.5
89	MP3C	Z	-15.719	5.5
90	MP3C	Mx	-.01	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	12.373	2.38
2	MP1A	Z	0	2.38
3	MP1A	Mx	-.005	2.38
4	MP1A	X	12.373	3.63
5	MP1A	Z	0	3.63
6	MP1A	Mx	-.005	3.63
7	MP1B	X	19.341	2.38
8	MP1B	Z	0	2.38
9	MP1B	Mx	-.003	2.38
10	MP1B	X	19.341	3.63

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	0	3.63
12	MP1B	Mx	-.003	3.63
13	MP1C	X	11.462	2.38
14	MP1C	Z	0	2.38
15	MP1C	Mx	.005	2.38
16	MP1C	X	11.462	3.63
17	MP1C	Z	0	3.63
18	MP1C	Mx	.005	3.63
19	MP2A	X	13.504	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.006	2
22	MP2B	X	16.62	2
23	MP2B	Z	0	2
24	MP2B	Mx	-.002	2
25	MP2C	X	13.097	2
26	MP2C	Z	0	2
27	MP2C	Mx	.006	2
28	MP3A	X	12.189	2
29	MP3A	Z	0	2
30	MP3A	Mx	-.005	2
31	MP3B	X	16.488	2
32	MP3B	Z	0	2
33	MP3B	Mx	-.002	2
34	MP3C	X	11.627	2
35	MP3C	Z	0	2
36	MP3C	Mx	.005	2
37	MP5A	X	13.654	.25
38	MP5A	Z	0	.25
39	MP5A	Mx	-.006	.25
40	MP5A	X	13.654	4.25
41	MP5A	Z	0	4.25
42	MP5A	Mx	-.006	4.25
43	MP5B	X	15.654	.25
44	MP5B	Z	0	.25
45	MP5B	Mx	-.000682	.25
46	MP5B	X	15.654	4.25
47	MP5B	Z	0	4.25
48	MP5B	Mx	-.000682	4.25
49	MP5C	X	13.2	.25
50	MP5C	Z	0	.25
51	MP5C	Mx	.006	.25
52	MP5C	X	13.2	4.25
53	MP5C	Z	0	4.25
54	MP5C	Mx	.006	4.25
55	MP3A	X	26.99	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	-.000734	.5
58	MP3A	X	26.99	5.5
59	MP3A	Z	0	5.5
60	MP3A	Mx	-.000734	5.5
61	MP3B	X	33.37	.5
62	MP3B	Z	0	.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	-.026	.5
64	MP3B	X	33.37	5.5
65	MP3B	Z	0	5.5
66	MP3B	Mx	-.026	5.5
67	MP3C	X	26.156	.5
68	MP3C	Z	0	.5
69	MP3C	Mx	.02	.5
70	MP3C	X	26.156	5.5
71	MP3C	Z	0	5.5
72	MP3C	Mx	.02	5.5
73	MP3A	X	26.99	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	-.021	.5
76	MP3A	X	26.99	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	-.021	5.5
79	MP3B	X	33.37	.5
80	MP3B	Z	0	.5
81	MP3B	Mx	.017	.5
82	MP3B	X	33.37	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	.017	5.5
85	MP3C	X	26.156	.5
86	MP3C	Z	0	.5
87	MP3C	Mx	.003	.5
88	MP3C	X	26.156	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	.003	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	15.635	2.38
2	MP1A	Z	9.027	2.38
3	MP1A	Mx	-.004	2.38
4	MP1A	X	15.635	3.63
5	MP1A	Z	9.027	3.63
6	MP1A	Mx	-.004	3.63
7	MP1B	X	12.424	2.38
8	MP1B	Z	7.173	2.38
9	MP1B	Mx	-.005	2.38
10	MP1B	X	12.424	3.63
11	MP1B	Z	7.173	3.63
12	MP1B	Mx	-.005	3.63
13	MP1C	X	7.429	2.38
14	MP1C	Z	4.289	2.38
15	MP1C	Mx	.004	2.38
16	MP1C	X	7.429	3.63
17	MP1C	Z	4.289	3.63
18	MP1C	Mx	.004	3.63
19	MP2A	X	13.895	2
20	MP2A	Z	8.022	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP2A	Mx	-.003	2
22	MP2B	X	12.459	2
23	MP2B	Z	7.193	2
24	MP2B	Mx	-.005	2
25	MP2C	X	10.226	2
26	MP2C	Z	5.904	2
27	MP2C	Mx	.006	2
28	MP3A	X	13.591	2
29	MP3A	Z	7.847	2
30	MP3A	Mx	-.003	2
31	MP3B	X	11.61	2
32	MP3B	Z	6.703	2
33	MP3B	Mx	-.005	2
34	MP3C	X	8.528	2
35	MP3C	Z	4.924	2
36	MP3C	Mx	.005	2
37	MP5A	X	13.11	.25
38	MP5A	Z	7.569	.25
39	MP5A	Mx	-.003	.25
40	MP5A	X	13.11	4.25
41	MP5A	Z	7.569	4.25
42	MP5A	Mx	-.003	4.25
43	MP5B	X	12.718	.25
44	MP5B	Z	7.343	.25
45	MP5B	Mx	-.004	.25
46	MP5B	X	12.718	4.25
47	MP5B	Z	7.343	4.25
48	MP5B	Mx	-.004	4.25
49	MP5C	X	10.985	.25
50	MP5C	Z	6.342	.25
51	MP5C	Mx	.006	.25
52	MP5C	X	10.985	4.25
53	MP5C	Z	6.342	4.25
54	MP5C	Mx	.006	4.25
55	MP3A	X	27.879	.5
56	MP3A	Z	16.096	.5
57	MP3A	Mx	.013	.5
58	MP3A	X	27.879	5.5
59	MP3A	Z	16.096	5.5
60	MP3A	Mx	.013	5.5
61	MP3B	X	24.939	.5
62	MP3B	Z	14.398	.5
63	MP3B	Mx	-.024	.5
64	MP3B	X	24.939	5.5
65	MP3B	Z	14.398	5.5
66	MP3B	Mx	-.024	5.5
67	MP3C	X	20.365	.5
68	MP3C	Z	11.758	.5
69	MP3C	Mx	.012	.5
70	MP3C	X	20.365	5.5
71	MP3C	Z	11.758	5.5
72	MP3C	Mx	.012	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	27.879	.5
74	MP3A	Z	16.096	.5
75	MP3A	Mx	-.026	.5
76	MP3A	X	27.879	5.5
77	MP3A	Z	16.096	5.5
78	MP3A	Mx	-.026	5.5
79	MP3B	X	24.939	.5
80	MP3B	Z	14.398	.5
81	MP3B	Mx	.003	.5
82	MP3B	X	24.939	5.5
83	MP3B	Z	14.398	5.5
84	MP3B	Mx	.003	5.5
85	MP3C	X	20.365	.5
86	MP3C	Z	11.758	.5
87	MP3C	Mx	.012	.5
88	MP3C	X	20.365	5.5
89	MP3C	Z	11.758	5.5
90	MP3C	Mx	.012	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	10.013	2.38
2	MP1A	Z	17.343	2.38
3	MP1A	Mx	.000873	2.38
4	MP1A	X	10.013	3.63
5	MP1A	Z	17.343	3.63
6	MP1A	Mx	.000873	3.63
7	MP1B	X	4.675	2.38
8	MP1B	Z	8.098	2.38
9	MP1B	Mx	-.005	2.38
10	MP1B	X	4.675	3.63
11	MP1B	Z	8.098	3.63
12	MP1B	Mx	-.005	3.63
13	MP1C	X	5.731	2.38
14	MP1C	Z	9.926	2.38
15	MP1C	Mx	.005	2.38
16	MP1C	X	5.731	3.63
17	MP1C	Z	9.926	3.63
18	MP1C	Mx	.005	3.63
19	MP2A	X	8.463	2
20	MP2A	Z	14.658	2
21	MP2A	Mx	.000738	2
22	MP2B	X	6.077	2
23	MP2B	Z	10.525	2
24	MP2B	Mx	-.006	2
25	MP2C	X	6.549	2
26	MP2C	Z	11.342	2
27	MP2C	Mx	.006	2
28	MP3A	X	8.456	2
29	MP3A	Z	14.646	2
30	MP3A	Mx	.000737	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP3B	X	5.162	2
32	MP3B	Z	8.941	2
33	MP3B	Mx	-.005	2
34	MP3C	X	5.814	2
35	MP3C	Z	10.069	2
36	MP3C	Mx	.005	2
37	MP5A	X	7.827	.25
38	MP5A	Z	13.557	.25
39	MP5A	Mx	.000682	.25
40	MP5A	X	7.827	4.25
41	MP5A	Z	13.557	4.25
42	MP5A	Mx	.000682	4.25
43	MP5B	X	6.6	.25
44	MP5B	Z	11.432	.25
45	MP5B	Mx	-.006	.25
46	MP5B	X	6.6	4.25
47	MP5B	Z	11.432	4.25
48	MP5B	Mx	-.006	4.25
49	MP5C	X	6.827	.25
50	MP5C	Z	11.824	.25
51	MP5C	Mx	.006	.25
52	MP5C	X	6.827	4.25
53	MP5C	Z	11.824	4.25
54	MP5C	Mx	.006	4.25
55	MP3A	X	16.999	.5
56	MP3A	Z	29.443	.5
57	MP3A	Mx	.024	.5
58	MP3A	X	16.999	5.5
59	MP3A	Z	29.443	5.5
60	MP3A	Mx	.024	5.5
61	MP3B	X	12.112	.5
62	MP3B	Z	20.978	.5
63	MP3B	Mx	-.016	.5
64	MP3B	X	12.112	5.5
65	MP3B	Z	20.978	5.5
66	MP3B	Mx	-.016	5.5
67	MP3C	X	13.078	.5
68	MP3C	Z	22.652	.5
69	MP3C	Mx	.003	.5
70	MP3C	X	13.078	5.5
71	MP3C	Z	22.652	5.5
72	MP3C	Mx	.003	5.5
73	MP3A	X	16.999	.5
74	MP3A	Z	29.443	.5
75	MP3A	Mx	-.021	.5
76	MP3A	X	16.999	5.5
77	MP3A	Z	29.443	5.5
78	MP3A	Mx	-.021	5.5
79	MP3B	X	12.112	.5
80	MP3B	Z	20.978	.5
81	MP3B	Mx	-.008	.5
82	MP3B	X	12.112	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	20.978	5.5
84	MP3B	Mx	-.008	5.5
85	MP3C	X	13.078	.5
86	MP3C	Z	22.652	.5
87	MP3C	Mx	.02	.5
88	MP3C	X	13.078	5.5
89	MP3C	Z	22.652	5.5
90	MP3C	Mx	.02	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	2.38
2	MP1A	Z	16.319	2.38
3	MP1A	Mx	.005	2.38
4	MP1A	X	0	3.63
5	MP1A	Z	16.319	3.63
6	MP1A	Mx	.005	3.63
7	MP1B	X	0	2.38
8	MP1B	Z	9.351	2.38
9	MP1B	Mx	-.005	2.38
10	MP1B	X	0	3.63
11	MP1B	Z	9.351	3.63
12	MP1B	Mx	-.005	3.63
13	MP1C	X	0	2.38
14	MP1C	Z	17.23	2.38
15	MP1C	Mx	.004	2.38
16	MP1C	X	0	3.63
17	MP1C	Z	17.23	3.63
18	MP1C	Mx	.004	3.63
19	MP2A	X	0	2
20	MP2A	Z	15.268	2
21	MP2A	Mx	.004	2
22	MP2B	X	0	2
23	MP2B	Z	12.153	2
24	MP2B	Mx	-.006	2
25	MP2C	X	0	2
26	MP2C	Z	15.676	2
27	MP2C	Mx	.004	2
28	MP3A	X	0	2
29	MP3A	Z	14.624	2
30	MP3A	Mx	.004	2
31	MP3B	X	0	2
32	MP3B	Z	10.324	2
33	MP3B	Mx	-.005	2
34	MP3C	X	0	2
35	MP3C	Z	15.186	2
36	MP3C	Mx	.004	2
37	MP5A	X	0	.25
38	MP5A	Z	14.685	.25
39	MP5A	Mx	.004	.25
40	MP5A	X	0	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	14.685	4.25
42	MP5A	Mx	.004	4.25
43	MP5B	X	0	.25
44	MP5B	Z	12.685	.25
45	MP5B	Mx	-.006	.25
46	MP5B	X	0	4.25
47	MP5B	Z	12.685	4.25
48	MP5B	Mx	-.006	4.25
49	MP5C	X	0	.25
50	MP5C	Z	15.139	.25
51	MP5C	Mx	.003	.25
52	MP5C	X	0	4.25
53	MP5C	Z	15.139	4.25
54	MP5C	Mx	.003	4.25
55	MP3A	X	0	.5
56	MP3A	Z	30.603	.5
57	MP3A	Mx	.025	.5
58	MP3A	X	0	5.5
59	MP3A	Z	30.603	5.5
60	MP3A	Mx	.025	5.5
61	MP3B	X	0	.5
62	MP3B	Z	24.223	.5
63	MP3B	Mx	-.008	.5
64	MP3B	X	0	5.5
65	MP3B	Z	24.223	5.5
66	MP3B	Mx	-.008	5.5
67	MP3C	X	0	.5
68	MP3C	Z	31.437	.5
69	MP3C	Mx	-.01	.5
70	MP3C	X	0	5.5
71	MP3C	Z	31.437	5.5
72	MP3C	Mx	-.01	5.5
73	MP3A	X	0	.5
74	MP3A	Z	30.603	.5
75	MP3A	Mx	-.008	.5
76	MP3A	X	0	5.5
77	MP3A	Z	30.603	5.5
78	MP3A	Mx	-.008	5.5
79	MP3B	X	0	.5
80	MP3B	Z	24.223	.5
81	MP3B	Mx	-.016	.5
82	MP3B	X	0	5.5
83	MP3B	Z	24.223	5.5
84	MP3B	Mx	-.016	5.5
85	MP3C	X	0	.5
86	MP3C	Z	31.437	.5
87	MP3C	Mx	.026	.5
88	MP3C	X	0	5.5
89	MP3C	Z	31.437	5.5
90	MP3C	Mx	.026	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-5.319	2.38
2	MP1A	Z	9.213	2.38
3	MP1A	Mx	.005	2.38
4	MP1A	X	-5.319	3.63
5	MP1A	Z	9.213	3.63
6	MP1A	Mx	.005	3.63
7	MP1B	X	-7.173	2.38
8	MP1B	Z	12.424	2.38
9	MP1B	Mx	-.005	2.38
10	MP1B	X	-7.173	3.63
11	MP1B	Z	12.424	3.63
12	MP1B	Mx	-.005	3.63
13	MP1C	X	-10.057	2.38
14	MP1C	Z	17.419	2.38
15	MP1C	Mx	0	2.38
16	MP1C	X	-10.057	3.63
17	MP1C	Z	17.419	3.63
18	MP1C	Mx	0	3.63
19	MP2A	X	-6.364	2
20	MP2A	Z	11.023	2
21	MP2A	Mx	.006	2
22	MP2B	X	-7.193	2
23	MP2B	Z	12.459	2
24	MP2B	Mx	-.005	2
25	MP2C	X	-8.483	2
26	MP2C	Z	14.692	2
27	MP2C	Mx	0	2
28	MP3A	X	-5.559	2
29	MP3A	Z	9.629	2
30	MP3A	Mx	.005	2
31	MP3B	X	-6.703	2
32	MP3B	Z	11.61	2
33	MP3B	Mx	-.005	2
34	MP3C	X	-8.483	2
35	MP3C	Z	14.692	2
36	MP3C	Mx	0	2
37	MP5A	X	-6.6	.25
38	MP5A	Z	11.432	.25
39	MP5A	Mx	.006	.25
40	MP5A	X	-6.6	4.25
41	MP5A	Z	11.432	4.25
42	MP5A	Mx	.006	4.25
43	MP5B	X	-6.827	.25
44	MP5B	Z	11.824	.25
45	MP5B	Mx	-.006	.25
46	MP5B	X	-6.827	4.25
47	MP5B	Z	11.824	4.25
48	MP5B	Mx	-.006	4.25
49	MP5C	X	-7.827	.25
50	MP5C	Z	13.557	.25
51	MP5C	Mx	-.000682	.25
52	MP5C	X	-7.827	4.25

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
53	MP5C	Z	13.557	4.25
54	MP5C	Mx	-.000682	4.25
55	MP3A	X	-12.701	.5
56	MP3A	Z	21.999	.5
57	MP3A	Mx	.019	.5
58	MP3A	X	-12.701	5.5
59	MP3A	Z	21.999	5.5
60	MP3A	Mx	.019	5.5
61	MP3B	X	-14.398	.5
62	MP3B	Z	24.939	.5
63	MP3B	Mx	.003	.5
64	MP3B	X	-14.398	5.5
65	MP3B	Z	24.939	5.5
66	MP3B	Mx	.003	5.5
67	MP3C	X	-17.039	.5
68	MP3C	Z	29.512	.5
69	MP3C	Mx	-.023	.5
70	MP3C	X	-17.039	5.5
71	MP3C	Z	29.512	5.5
72	MP3C	Mx	-.023	5.5
73	MP3A	X	-12.701	.5
74	MP3A	Z	21.999	.5
75	MP3A	Mx	.004	.5
76	MP3A	X	-12.701	5.5
77	MP3A	Z	21.999	5.5
78	MP3A	Mx	.004	5.5
79	MP3B	X	-14.398	.5
80	MP3B	Z	24.939	.5
81	MP3B	Mx	-.024	.5
82	MP3B	X	-14.398	5.5
83	MP3B	Z	24.939	5.5
84	MP3B	Mx	-.024	5.5
85	MP3C	X	-17.039	.5
86	MP3C	Z	29.512	.5
87	MP3C	Mx	.023	.5
88	MP3C	X	-17.039	5.5
89	MP3C	Z	29.512	5.5
90	MP3C	Mx	.023	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-7.505	2.38
2	MP1A	Z	4.333	2.38
3	MP1A	Mx	.004	2.38
4	MP1A	X	-7.505	3.63
5	MP1A	Z	4.333	3.63
6	MP1A	Mx	.004	3.63
7	MP1B	X	-16.75	2.38
8	MP1B	Z	9.67	2.38
9	MP1B	Mx	-.003	2.38
10	MP1B	X	-16.75	3.63

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP1B	Z	9.67	3.63
12	MP1B	Mx	-.003	3.63
13	MP1C	X	-14.921	2.38
14	MP1C	Z	8.615	2.38
15	MP1C	Mx	-.004	2.38
16	MP1C	X	-14.921	3.63
17	MP1C	Z	8.615	3.63
18	MP1C	Mx	-.004	3.63
19	MP2A	X	-10.26	2
20	MP2A	Z	5.923	2
21	MP2A	Mx	.006	2
22	MP2B	X	-14.393	2
23	MP2B	Z	8.31	2
24	MP2B	Mx	-.002	2
25	MP2C	X	-13.576	2
26	MP2C	Z	7.838	2
27	MP2C	Mx	-.004	2
28	MP3A	X	-8.575	2
29	MP3A	Z	4.951	2
30	MP3A	Mx	.005	2
31	MP3B	X	-14.279	2
32	MP3B	Z	8.244	2
33	MP3B	Mx	-.002	2
34	MP3C	X	-13.151	2
35	MP3C	Z	7.593	2
36	MP3C	Mx	-.004	2
37	MP5A	X	-10.985	.25
38	MP5A	Z	6.342	.25
39	MP5A	Mx	.006	.25
40	MP5A	X	-10.985	4.25
41	MP5A	Z	6.342	4.25
42	MP5A	Mx	.006	4.25
43	MP5B	X	-13.11	.25
44	MP5B	Z	7.569	.25
45	MP5B	Mx	-.003	.25
46	MP5B	X	-13.11	4.25
47	MP5B	Z	7.569	4.25
48	MP5B	Mx	-.003	4.25
49	MP5C	X	-12.718	.25
50	MP5C	Z	7.343	.25
51	MP5C	Mx	-.004	.25
52	MP5C	X	-12.718	4.25
53	MP5C	Z	7.343	4.25
54	MP5C	Mx	-.004	4.25
55	MP3A	X	-20.435	.5
56	MP3A	Z	11.798	.5
57	MP3A	Mx	.01	.5
58	MP3A	X	-20.435	5.5
59	MP3A	Z	11.798	5.5
60	MP3A	Mx	.01	5.5
61	MP3B	X	-28.9	.5
62	MP3B	Z	16.685	.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	.017	.5
64	MP3B	X	-28.9	5.5
65	MP3B	Z	16.685	5.5
66	MP3B	Mx	.017	5.5
67	MP3C	X	-27.225	.5
68	MP3C	Z	15.719	.5
69	MP3C	Mx	-.026	.5
70	MP3C	X	-27.225	5.5
71	MP3C	Z	15.719	5.5
72	MP3C	Mx	-.026	5.5
73	MP3A	X	-20.435	.5
74	MP3A	Z	11.798	.5
75	MP3A	Mx	.013	.5
76	MP3A	X	-20.435	5.5
77	MP3A	Z	11.798	5.5
78	MP3A	Mx	.013	5.5
79	MP3B	X	-28.9	.5
80	MP3B	Z	16.685	.5
81	MP3B	Mx	-.026	.5
82	MP3B	X	-28.9	5.5
83	MP3B	Z	16.685	5.5
84	MP3B	Mx	-.026	5.5
85	MP3C	X	-27.225	.5
86	MP3C	Z	15.719	.5
87	MP3C	Mx	.01	.5
88	MP3C	X	-27.225	5.5
89	MP3C	Z	15.719	5.5
90	MP3C	Mx	.01	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-12.373	2.38
2	MP1A	Z	0	2.38
3	MP1A	Mx	.005	2.38
4	MP1A	X	-12.373	3.63
5	MP1A	Z	0	3.63
6	MP1A	Mx	.005	3.63
7	MP1B	X	-19.341	2.38
8	MP1B	Z	0	2.38
9	MP1B	Mx	.003	2.38
10	MP1B	X	-19.341	3.63
11	MP1B	Z	0	3.63
12	MP1B	Mx	.003	3.63
13	MP1C	X	-11.462	2.38
14	MP1C	Z	0	2.38
15	MP1C	Mx	-.005	2.38
16	MP1C	X	-11.462	3.63
17	MP1C	Z	0	3.63
18	MP1C	Mx	-.005	3.63
19	MP2A	X	-13.504	2
20	MP2A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	.006	2
22	MP2B	X	-16.62	2
23	MP2B	Z	0	2
24	MP2B	Mx	.002	2
25	MP2C	X	-13.097	2
26	MP2C	Z	0	2
27	MP2C	Mx	-.006	2
28	MP3A	X	-12.189	2
29	MP3A	Z	0	2
30	MP3A	Mx	.005	2
31	MP3B	X	-16.488	2
32	MP3B	Z	0	2
33	MP3B	Mx	.002	2
34	MP3C	X	-11.627	2
35	MP3C	Z	0	2
36	MP3C	Mx	-.005	2
37	MP5A	X	-13.654	.25
38	MP5A	Z	0	.25
39	MP5A	Mx	.006	.25
40	MP5A	X	-13.654	4.25
41	MP5A	Z	0	4.25
42	MP5A	Mx	.006	4.25
43	MP5B	X	-15.654	.25
44	MP5B	Z	0	.25
45	MP5B	Mx	.000682	.25
46	MP5B	X	-15.654	4.25
47	MP5B	Z	0	4.25
48	MP5B	Mx	.000682	4.25
49	MP5C	X	-13.2	.25
50	MP5C	Z	0	.25
51	MP5C	Mx	-.006	.25
52	MP5C	X	-13.2	4.25
53	MP5C	Z	0	4.25
54	MP5C	Mx	-.006	4.25
55	MP3A	X	-26.99	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	.000734	.5
58	MP3A	X	-26.99	5.5
59	MP3A	Z	0	5.5
60	MP3A	Mx	.000734	5.5
61	MP3B	X	-33.37	.5
62	MP3B	Z	0	.5
63	MP3B	Mx	.026	.5
64	MP3B	X	-33.37	5.5
65	MP3B	Z	0	5.5
66	MP3B	Mx	.026	5.5
67	MP3C	X	-26.156	.5
68	MP3C	Z	0	.5
69	MP3C	Mx	-.02	.5
70	MP3C	X	-26.156	5.5
71	MP3C	Z	0	5.5
72	MP3C	Mx	-.02	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	-26.99	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	.021	.5
76	MP3A	X	-26.99	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	.021	5.5
79	MP3B	X	-33.37	.5
80	MP3B	Z	0	.5
81	MP3B	Mx	-.017	.5
82	MP3B	X	-33.37	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	-.017	5.5
85	MP3C	X	-26.156	.5
86	MP3C	Z	0	.5
87	MP3C	Mx	-.003	.5
88	MP3C	X	-26.156	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	-.003	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-15.635	2.38
2	MP1A	Z	-9.027	2.38
3	MP1A	Mx	.004	2.38
4	MP1A	X	-15.635	3.63
5	MP1A	Z	-9.027	3.63
6	MP1A	Mx	.004	3.63
7	MP1B	X	-12.424	2.38
8	MP1B	Z	-7.173	2.38
9	MP1B	Mx	.005	2.38
10	MP1B	X	-12.424	3.63
11	MP1B	Z	-7.173	3.63
12	MP1B	Mx	.005	3.63
13	MP1C	X	-7.429	2.38
14	MP1C	Z	-4.289	2.38
15	MP1C	Mx	-.004	2.38
16	MP1C	X	-7.429	3.63
17	MP1C	Z	-4.289	3.63
18	MP1C	Mx	-.004	3.63
19	MP2A	X	-13.895	2
20	MP2A	Z	-8.022	2
21	MP2A	Mx	.003	2
22	MP2B	X	-12.459	2
23	MP2B	Z	-7.193	2
24	MP2B	Mx	.005	2
25	MP2C	X	-10.226	2
26	MP2C	Z	-5.904	2
27	MP2C	Mx	-.006	2
28	MP3A	X	-13.591	2
29	MP3A	Z	-7.847	2
30	MP3A	Mx	.003	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP3B	X	-11.61	2
32	MP3B	Z	-6.703	2
33	MP3B	Mx	.005	2
34	MP3C	X	-8.528	2
35	MP3C	Z	-4.924	2
36	MP3C	Mx	-.005	2
37	MP5A	X	-13.11	.25
38	MP5A	Z	-7.569	.25
39	MP5A	Mx	.003	.25
40	MP5A	X	-13.11	4.25
41	MP5A	Z	-7.569	4.25
42	MP5A	Mx	.003	4.25
43	MP5B	X	-12.718	.25
44	MP5B	Z	-7.343	.25
45	MP5B	Mx	.004	.25
46	MP5B	X	-12.718	4.25
47	MP5B	Z	-7.343	4.25
48	MP5B	Mx	.004	4.25
49	MP5C	X	-10.985	.25
50	MP5C	Z	-6.342	.25
51	MP5C	Mx	-.006	.25
52	MP5C	X	-10.985	4.25
53	MP5C	Z	-6.342	4.25
54	MP5C	Mx	-.006	4.25
55	MP3A	X	-27.879	.5
56	MP3A	Z	-16.096	.5
57	MP3A	Mx	-.013	.5
58	MP3A	X	-27.879	5.5
59	MP3A	Z	-16.096	5.5
60	MP3A	Mx	-.013	5.5
61	MP3B	X	-24.939	.5
62	MP3B	Z	-14.398	.5
63	MP3B	Mx	.024	.5
64	MP3B	X	-24.939	5.5
65	MP3B	Z	-14.398	5.5
66	MP3B	Mx	.024	5.5
67	MP3C	X	-20.365	.5
68	MP3C	Z	-11.758	.5
69	MP3C	Mx	-.012	.5
70	MP3C	X	-20.365	5.5
71	MP3C	Z	-11.758	5.5
72	MP3C	Mx	-.012	5.5
73	MP3A	X	-27.879	.5
74	MP3A	Z	-16.096	.5
75	MP3A	Mx	.026	.5
76	MP3A	X	-27.879	5.5
77	MP3A	Z	-16.096	5.5
78	MP3A	Mx	.026	5.5
79	MP3B	X	-24.939	.5
80	MP3B	Z	-14.398	.5
81	MP3B	Mx	-.003	.5
82	MP3B	X	-24.939	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	-14.398	5.5
84	MP3B	Mx	-.003	5.5
85	MP3C	X	-20.365	.5
86	MP3C	Z	-11.758	.5
87	MP3C	Mx	-.012	.5
88	MP3C	X	-20.365	5.5
89	MP3C	Z	-11.758	5.5
90	MP3C	Mx	-.012	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-10.013	2.38
2	MP1A	Z	-17.343	2.38
3	MP1A	Mx	-.000873	2.38
4	MP1A	X	-10.013	3.63
5	MP1A	Z	-17.343	3.63
6	MP1A	Mx	-.000873	3.63
7	MP1B	X	-4.675	2.38
8	MP1B	Z	-8.098	2.38
9	MP1B	Mx	.005	2.38
10	MP1B	X	-4.675	3.63
11	MP1B	Z	-8.098	3.63
12	MP1B	Mx	.005	3.63
13	MP1C	X	-5.731	2.38
14	MP1C	Z	-9.926	2.38
15	MP1C	Mx	-.005	2.38
16	MP1C	X	-5.731	3.63
17	MP1C	Z	-9.926	3.63
18	MP1C	Mx	-.005	3.63
19	MP2A	X	-8.463	2
20	MP2A	Z	-14.658	2
21	MP2A	Mx	-.000738	2
22	MP2B	X	-6.077	2
23	MP2B	Z	-10.525	2
24	MP2B	Mx	.006	2
25	MP2C	X	-6.549	2
26	MP2C	Z	-11.342	2
27	MP2C	Mx	-.006	2
28	MP3A	X	-8.456	2
29	MP3A	Z	-14.646	2
30	MP3A	Mx	-.000737	2
31	MP3B	X	-5.162	2
32	MP3B	Z	-8.941	2
33	MP3B	Mx	.005	2
34	MP3C	X	-5.814	2
35	MP3C	Z	-10.069	2
36	MP3C	Mx	-.005	2
37	MP5A	X	-7.827	.25
38	MP5A	Z	-13.557	.25
39	MP5A	Mx	-.000682	.25
40	MP5A	X	-7.827	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	-13.557	4.25
42	MP5A	Mx	-.000682	4.25
43	MP5B	X	-6.6	.25
44	MP5B	Z	-11.432	.25
45	MP5B	Mx	.006	.25
46	MP5B	X	-6.6	4.25
47	MP5B	Z	-11.432	4.25
48	MP5B	Mx	.006	4.25
49	MP5C	X	-6.827	.25
50	MP5C	Z	-11.824	.25
51	MP5C	Mx	-.006	.25
52	MP5C	X	-6.827	4.25
53	MP5C	Z	-11.824	4.25
54	MP5C	Mx	-.006	4.25
55	MP3A	X	-16.999	.5
56	MP3A	Z	-29.443	.5
57	MP3A	Mx	-.024	.5
58	MP3A	X	-16.999	5.5
59	MP3A	Z	-29.443	5.5
60	MP3A	Mx	-.024	5.5
61	MP3B	X	-12.112	.5
62	MP3B	Z	-20.978	.5
63	MP3B	Mx	.016	.5
64	MP3B	X	-12.112	5.5
65	MP3B	Z	-20.978	5.5
66	MP3B	Mx	.016	5.5
67	MP3C	X	-13.078	.5
68	MP3C	Z	-22.652	.5
69	MP3C	Mx	-.003	.5
70	MP3C	X	-13.078	5.5
71	MP3C	Z	-22.652	5.5
72	MP3C	Mx	-.003	5.5
73	MP3A	X	-16.999	.5
74	MP3A	Z	-29.443	.5
75	MP3A	Mx	.021	.5
76	MP3A	X	-16.999	5.5
77	MP3A	Z	-29.443	5.5
78	MP3A	Mx	.021	5.5
79	MP3B	X	-12.112	.5
80	MP3B	Z	-20.978	.5
81	MP3B	Mx	.008	.5
82	MP3B	X	-12.112	5.5
83	MP3B	Z	-20.978	5.5
84	MP3B	Mx	.008	5.5
85	MP3C	X	-13.078	.5
86	MP3C	Z	-22.652	.5
87	MP3C	Mx	-.02	.5
88	MP3C	X	-13.078	5.5
89	MP3C	Z	-22.652	5.5
90	MP3C	Mx	-.02	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.38
2	MP1A	Z	-5.118	2.38
3	MP1A	Mx	-.001	2.38
4	MP1A	X	0	3.63
5	MP1A	Z	-5.118	3.63
6	MP1A	Mx	-.001	3.63
7	MP1B	X	0	2.38
8	MP1B	Z	-2.766	2.38
9	MP1B	Mx	.001	2.38
10	MP1B	X	0	3.63
11	MP1B	Z	-2.766	3.63
12	MP1B	Mx	.001	3.63
13	MP1C	X	0	2.38
14	MP1C	Z	-5.426	2.38
15	MP1C	Mx	-.001	2.38
16	MP1C	X	0	3.63
17	MP1C	Z	-5.426	3.63
18	MP1C	Mx	-.001	3.63
19	MP2A	X	0	2
20	MP2A	Z	-4.537	2
21	MP2A	Mx	-.001	2
22	MP2B	X	0	2
23	MP2B	Z	-3.517	2
24	MP2B	Mx	.002	2
25	MP2C	X	0	2
26	MP2C	Z	-4.67	2
27	MP2C	Mx	-.001	2
28	MP3A	X	0	2
29	MP3A	Z	-4.324	2
30	MP3A	Mx	-.001	2
31	MP3B	X	0	2
32	MP3B	Z	-2.913	2
33	MP3B	Mx	.001	2
34	MP3C	X	0	2
35	MP3C	Z	-4.508	2
36	MP3C	Mx	-.001	2
37	MP5A	X	0	.25
38	MP5A	Z	-4.503	.25
39	MP5A	Mx	-.001	.25
40	MP5A	X	0	4.25
41	MP5A	Z	-4.503	4.25
42	MP5A	Mx	-.001	4.25
43	MP5B	X	0	.25
44	MP5B	Z	-3.81	.25
45	MP5B	Mx	.002	.25
46	MP5B	X	0	4.25
47	MP5B	Z	-3.81	4.25
48	MP5B	Mx	.002	4.25
49	MP5C	X	0	.25
50	MP5C	Z	-4.66	.25
51	MP5C	Mx	-.000985	.25
52	MP5C	X	0	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	-4.66	4.25
54	MP5C	Mx	-.000985	4.25
55	MP3A	X	0	.5
56	MP3A	Z	-9.872	.5
57	MP3A	Mx	-.008	.5
58	MP3A	X	0	5.5
59	MP3A	Z	-9.872	5.5
60	MP3A	Mx	-.008	5.5
61	MP3B	X	0	.5
62	MP3B	Z	-7.599	.5
63	MP3B	Mx	.002	.5
64	MP3B	X	0	5.5
65	MP3B	Z	-7.599	5.5
66	MP3B	Mx	.002	5.5
67	MP3C	X	0	.5
68	MP3C	Z	-10.169	.5
69	MP3C	Mx	.003	.5
70	MP3C	X	0	5.5
71	MP3C	Z	-10.169	5.5
72	MP3C	Mx	.003	5.5
73	MP3A	X	0	.5
74	MP3A	Z	-9.872	.5
75	MP3A	Mx	.003	.5
76	MP3A	X	0	5.5
77	MP3A	Z	-9.872	5.5
78	MP3A	Mx	.003	5.5
79	MP3B	X	0	.5
80	MP3B	Z	-7.599	.5
81	MP3B	Mx	.005	.5
82	MP3B	X	0	5.5
83	MP3B	Z	-7.599	5.5
84	MP3B	Mx	.005	5.5
85	MP3C	X	0	.5
86	MP3C	Z	-10.169	.5
87	MP3C	Mx	-.008	.5
88	MP3C	X	0	5.5
89	MP3C	Z	-10.169	5.5
90	MP3C	Mx	-.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	1.6	2.38
2	MP1A	Z	-2.772	2.38
3	MP1A	Mx	-.001	2.38
4	MP1A	X	1.6	3.63
5	MP1A	Z	-2.772	3.63
6	MP1A	Mx	-.001	3.63
7	MP1B	X	2.226	2.38
8	MP1B	Z	-3.856	2.38
9	MP1B	Mx	.002	2.38
10	MP1B	X	2.226	3.63

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	-3.856	3.63
12	MP1B	Mx	.002	3.63
13	MP1C	X	3.199	2.38
14	MP1C	Z	-5.542	2.38
15	MP1C	Mx	0	2.38
16	MP1C	X	3.199	3.63
17	MP1C	Z	-5.542	3.63
18	MP1C	Mx	0	3.63
19	MP2A	X	1.853	2
20	MP2A	Z	-3.209	2
21	MP2A	Mx	-.002	2
22	MP2B	X	2.124	2
23	MP2B	Z	-3.679	2
24	MP2B	Mx	.002	2
25	MP2C	X	2.546	2
26	MP2C	Z	-4.41	2
27	MP2C	Mx	0	2
28	MP3A	X	1.587	2
29	MP3A	Z	-2.749	2
30	MP3A	Mx	-.001	2
31	MP3B	X	1.962	2
32	MP3B	Z	-3.399	2
33	MP3B	Mx	.001	2
34	MP3C	X	2.546	2
35	MP3C	Z	-4.41	2
36	MP3C	Mx	0	2
37	MP5A	X	1.994	.25
38	MP5A	Z	-3.455	.25
39	MP5A	Mx	-.002	.25
40	MP5A	X	1.994	4.25
41	MP5A	Z	-3.455	4.25
42	MP5A	Mx	-.002	4.25
43	MP5B	X	2.073	.25
44	MP5B	Z	-3.591	.25
45	MP5B	Mx	.002	.25
46	MP5B	X	2.073	4.25
47	MP5B	Z	-3.591	4.25
48	MP5B	Mx	.002	4.25
49	MP5C	X	2.419	.25
50	MP5C	Z	-4.191	.25
51	MP5C	Mx	.000211	.25
52	MP5C	X	2.419	4.25
53	MP5C	Z	-4.191	4.25
54	MP5C	Mx	.000211	4.25
55	MP3A	X	4.009	.5
56	MP3A	Z	-6.945	.5
57	MP3A	Mx	-.006	.5
58	MP3A	X	4.009	5.5
59	MP3A	Z	-6.945	5.5
60	MP3A	Mx	-.006	5.5
61	MP3B	X	4.614	.5
62	MP3B	Z	-7.992	.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	-.001	.5
64	MP3B	X	4.614	5.5
65	MP3B	Z	-7.992	5.5
66	MP3B	Mx	-.001	5.5
67	MP3C	X	5.555	.5
68	MP3C	Z	-9.621	.5
69	MP3C	Mx	.007	.5
70	MP3C	X	5.555	5.5
71	MP3C	Z	-9.621	5.5
72	MP3C	Mx	.007	5.5
73	MP3A	X	4.009	.5
74	MP3A	Z	-6.945	.5
75	MP3A	Mx	-.001	.5
76	MP3A	X	4.009	5.5
77	MP3A	Z	-6.945	5.5
78	MP3A	Mx	-.001	5.5
79	MP3B	X	4.614	.5
80	MP3B	Z	-7.992	.5
81	MP3B	Mx	.008	.5
82	MP3B	X	4.614	5.5
83	MP3B	Z	-7.992	5.5
84	MP3B	Mx	.008	5.5
85	MP3C	X	5.555	.5
86	MP3C	Z	-9.621	.5
87	MP3C	Mx	-.007	.5
88	MP3C	X	5.555	5.5
89	MP3C	Z	-9.621	5.5
90	MP3C	Mx	-.007	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.195	2.38
2	MP1A	Z	-1.267	2.38
3	MP1A	Mx	-.001	2.38
4	MP1A	X	2.195	3.63
5	MP1A	Z	-1.267	3.63
6	MP1A	Mx	-.001	3.63
7	MP1B	X	5.316	2.38
8	MP1B	Z	-3.069	2.38
9	MP1B	Mx	.000794	2.38
10	MP1B	X	5.316	3.63
11	MP1B	Z	-3.069	3.63
12	MP1B	Mx	.000794	3.63
13	MP1C	X	4.699	2.38
14	MP1C	Z	-2.713	2.38
15	MP1C	Mx	.001	2.38
16	MP1C	X	4.699	3.63
17	MP1C	Z	-2.713	3.63
18	MP1C	Mx	.001	3.63
19	MP2A	X	2.959	2
20	MP2A	Z	-1.708	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP2A	Mx	-.002	2
22	MP2B	X	4.312	2
23	MP2B	Z	-2.489	2
24	MP2B	Mx	.000644	2
25	MP2C	X	4.044	2
26	MP2C	Z	-2.335	2
27	MP2C	Mx	.001	2
28	MP3A	X	2.403	2
29	MP3A	Z	-1.387	2
30	MP3A	Mx	-.001	2
31	MP3B	X	4.274	2
32	MP3B	Z	-2.468	2
33	MP3B	Mx	.000639	2
34	MP3C	X	3.904	2
35	MP3C	Z	-2.254	2
36	MP3C	Mx	.001	2
37	MP5A	X	3.3	.25
38	MP5A	Z	-1.905	.25
39	MP5A	Mx	-.002	.25
40	MP5A	X	3.3	4.25
41	MP5A	Z	-1.905	4.25
42	MP5A	Mx	-.002	4.25
43	MP5B	X	4.036	.25
44	MP5B	Z	-2.33	.25
45	MP5B	Mx	.000985	.25
46	MP5B	X	4.036	4.25
47	MP5B	Z	-2.33	4.25
48	MP5B	Mx	.000985	4.25
49	MP5C	X	3.9	.25
50	MP5C	Z	-2.252	.25
51	MP5C	Mx	.001	.25
52	MP5C	X	3.9	4.25
53	MP5C	Z	-2.252	4.25
54	MP5C	Mx	.001	4.25
55	MP3A	X	6.387	.5
56	MP3A	Z	-3.688	.5
57	MP3A	Mx	-.003	.5
58	MP3A	X	6.387	5.5
59	MP3A	Z	-3.688	5.5
60	MP3A	Mx	-.003	5.5
61	MP3B	X	9.403	.5
62	MP3B	Z	-5.429	.5
63	MP3B	Mx	-.006	.5
64	MP3B	X	9.403	5.5
65	MP3B	Z	-5.429	5.5
66	MP3B	Mx	-.006	5.5
67	MP3C	X	8.807	.5
68	MP3C	Z	-5.084	.5
69	MP3C	Mx	.008	.5
70	MP3C	X	8.807	5.5
71	MP3C	Z	-5.084	5.5
72	MP3C	Mx	.008	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	6.387	.5
74	MP3A	Z	-3.688	.5
75	MP3A	Mx	-.004	.5
76	MP3A	X	6.387	5.5
77	MP3A	Z	-3.688	5.5
78	MP3A	Mx	-.004	5.5
79	MP3B	X	9.403	.5
80	MP3B	Z	-5.429	.5
81	MP3B	Mx	.008	.5
82	MP3B	X	9.403	5.5
83	MP3B	Z	-5.429	5.5
84	MP3B	Mx	.008	5.5
85	MP3C	X	8.807	.5
86	MP3C	Z	-5.084	.5
87	MP3C	Mx	-.003	.5
88	MP3C	X	8.807	5.5
89	MP3C	Z	-5.084	5.5
90	MP3C	Mx	-.003	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	3.786	2.38
2	MP1A	Z	0	2.38
3	MP1A	Mx	-.002	2.38
4	MP1A	X	3.786	3.63
5	MP1A	Z	0	3.63
6	MP1A	Mx	-.002	3.63
7	MP1B	X	6.138	2.38
8	MP1B	Z	0	2.38
9	MP1B	Mx	-.000794	2.38
10	MP1B	X	6.138	3.63
11	MP1B	Z	0	3.63
12	MP1B	Mx	-.000794	3.63
13	MP1C	X	3.479	2.38
14	MP1C	Z	0	2.38
15	MP1C	Mx	.002	2.38
16	MP1C	X	3.479	3.63
17	MP1C	Z	0	3.63
18	MP1C	Mx	.002	3.63
19	MP2A	X	3.959	2
20	MP2A	Z	0	2
21	MP2A	Mx	-.002	2
22	MP2B	X	4.979	2
23	MP2B	Z	0	2
24	MP2B	Mx	-.000644	2
25	MP2C	X	3.826	2
26	MP2C	Z	0	2
27	MP2C	Mx	.002	2
28	MP3A	X	3.525	2
29	MP3A	Z	0	2
30	MP3A	Mx	-.001	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP3B	X	4.936	2
32	MP3B	Z	0	2
33	MP3B	Mx	-.000639	2
34	MP3C	X	3.341	2
35	MP3C	Z	0	2
36	MP3C	Mx	.001	2
37	MP5A	X	4.146	.25
38	MP5A	Z	0	.25
39	MP5A	Mx	-.002	.25
40	MP5A	X	4.146	4.25
41	MP5A	Z	0	4.25
42	MP5A	Mx	-.002	4.25
43	MP5B	X	4.839	.25
44	MP5B	Z	0	.25
45	MP5B	Mx	-.000211	.25
46	MP5B	X	4.839	4.25
47	MP5B	Z	0	4.25
48	MP5B	Mx	-.000211	4.25
49	MP5C	X	3.989	.25
50	MP5C	Z	0	.25
51	MP5C	Mx	.002	.25
52	MP5C	X	3.989	4.25
53	MP5C	Z	0	4.25
54	MP5C	Mx	.002	4.25
55	MP3A	X	8.585	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	-.000233	.5
58	MP3A	X	8.585	5.5
59	MP3A	Z	0	5.5
60	MP3A	Mx	-.000233	5.5
61	MP3B	X	10.858	.5
62	MP3B	Z	0	.5
63	MP3B	Mx	-.008	.5
64	MP3B	X	10.858	5.5
65	MP3B	Z	0	5.5
66	MP3B	Mx	-.008	5.5
67	MP3C	X	8.288	.5
68	MP3C	Z	0	.5
69	MP3C	Mx	.006	.5
70	MP3C	X	8.288	5.5
71	MP3C	Z	0	5.5
72	MP3C	Mx	.006	5.5
73	MP3A	X	8.585	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	-.007	.5
76	MP3A	X	8.585	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	-.007	5.5
79	MP3B	X	10.858	.5
80	MP3B	Z	0	.5
81	MP3B	Mx	.006	.5
82	MP3B	X	10.858	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	0	5.5
84	MP3B	Mx	.006	5.5
85	MP3C	X	8.288	.5
86	MP3C	Z	0	.5
87	MP3C	Mx	.000826	.5
88	MP3C	X	8.288	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	.000826	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	4.939	2.38
2	MP1A	Z	2.852	2.38
3	MP1A	Mx	-.001	2.38
4	MP1A	X	4.939	3.63
5	MP1A	Z	2.852	3.63
6	MP1A	Mx	-.001	3.63
7	MP1B	X	3.856	2.38
8	MP1B	Z	2.226	2.38
9	MP1B	Mx	-.002	2.38
10	MP1B	X	3.856	3.63
11	MP1B	Z	2.226	3.63
12	MP1B	Mx	-.002	3.63
13	MP1C	X	2.17	2.38
14	MP1C	Z	1.253	2.38
15	MP1C	Mx	.001	2.38
16	MP1C	X	2.17	3.63
17	MP1C	Z	1.253	3.63
18	MP1C	Mx	.001	3.63
19	MP2A	X	4.149	2
20	MP2A	Z	2.395	2
21	MP2A	Mx	-.001	2
22	MP2B	X	3.679	2
23	MP2B	Z	2.124	2
24	MP2B	Mx	-.002	2
25	MP2C	X	2.948	2
26	MP2C	Z	1.702	2
27	MP2C	Mx	.002	2
28	MP3A	X	4.049	2
29	MP3A	Z	2.337	2
30	MP3A	Mx	-.000988	2
31	MP3B	X	3.399	2
32	MP3B	Z	1.962	2
33	MP3B	Mx	-.001	2
34	MP3C	X	2.388	2
35	MP3C	Z	1.378	2
36	MP3C	Mx	.001	2
37	MP5A	X	4.036	.25
38	MP5A	Z	2.33	.25
39	MP5A	Mx	-.000985	.25
40	MP5A	X	4.036	4.25

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	2.33	4.25
42	MP5A	Mx	-.000985	4.25
43	MP5B	X	3.9	.25
44	MP5B	Z	2.252	.25
45	MP5B	Mx	-.001	.25
46	MP5B	X	3.9	4.25
47	MP5B	Z	2.252	4.25
48	MP5B	Mx	-.001	4.25
49	MP5C	X	3.3	.25
50	MP5C	Z	1.905	.25
51	MP5C	Mx	.002	.25
52	MP5C	X	3.3	4.25
53	MP5C	Z	1.905	4.25
54	MP5C	Mx	.002	4.25
55	MP3A	X	9.039	.5
56	MP3A	Z	5.219	.5
57	MP3A	Mx	.004	.5
58	MP3A	X	9.039	5.5
59	MP3A	Z	5.219	5.5
60	MP3A	Mx	.004	5.5
61	MP3B	X	7.992	.5
62	MP3B	Z	4.614	.5
63	MP3B	Mx	-.008	.5
64	MP3B	X	7.992	5.5
65	MP3B	Z	4.614	5.5
66	MP3B	Mx	-.008	5.5
67	MP3C	X	6.363	.5
68	MP3C	Z	3.673	.5
69	MP3C	Mx	.004	.5
70	MP3C	X	6.363	5.5
71	MP3C	Z	3.673	5.5
72	MP3C	Mx	.004	5.5
73	MP3A	X	9.039	.5
74	MP3A	Z	5.219	.5
75	MP3A	Mx	-.009	.5
76	MP3A	X	9.039	5.5
77	MP3A	Z	5.219	5.5
78	MP3A	Mx	-.009	5.5
79	MP3B	X	7.992	.5
80	MP3B	Z	4.614	.5
81	MP3B	Mx	.001	.5
82	MP3B	X	7.992	5.5
83	MP3B	Z	4.614	5.5
84	MP3B	Mx	.001	5.5
85	MP3C	X	6.363	.5
86	MP3C	Z	3.673	.5
87	MP3C	Mx	.004	.5
88	MP3C	X	6.363	5.5
89	MP3C	Z	3.673	5.5
90	MP3C	Mx	.004	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	3.185	2.38
2	MP1A	Z	5.516	2.38
3	MP1A	Mx	.000277	2.38
4	MP1A	X	3.185	3.63
5	MP1A	Z	5.516	3.63
6	MP1A	Mx	.000277	3.63
7	MP1B	X	1.383	2.38
8	MP1B	Z	2.395	2.38
9	MP1B	Mx	-.001	2.38
10	MP1B	X	1.383	3.63
11	MP1B	Z	2.395	3.63
12	MP1B	Mx	-.001	3.63
13	MP1C	X	1.739	2.38
14	MP1C	Z	3.013	2.38
15	MP1C	Mx	.002	2.38
16	MP1C	X	1.739	3.63
17	MP1C	Z	3.013	3.63
18	MP1C	Mx	.002	3.63
19	MP2A	X	2.54	2
20	MP2A	Z	4.399	2
21	MP2A	Mx	.000221	2
22	MP2B	X	1.758	2
23	MP2B	Z	3.046	2
24	MP2B	Mx	-.002	2
25	MP2C	X	1.913	2
26	MP2C	Z	3.313	2
27	MP2C	Mx	.002	2
28	MP3A	X	2.537	2
29	MP3A	Z	4.394	2
30	MP3A	Mx	.000221	2
31	MP3B	X	1.457	2
32	MP3B	Z	2.523	2
33	MP3B	Mx	-.001	2
34	MP3C	X	1.67	2
35	MP3C	Z	2.893	2
36	MP3C	Mx	.001	2
37	MP5A	X	2.419	.25
38	MP5A	Z	4.191	.25
39	MP5A	Mx	.000211	.25
40	MP5A	X	2.419	4.25
41	MP5A	Z	4.191	4.25
42	MP5A	Mx	.000211	4.25
43	MP5B	X	1.994	.25
44	MP5B	Z	3.455	.25
45	MP5B	Mx	-.002	.25
46	MP5B	X	1.994	4.25
47	MP5B	Z	3.455	4.25
48	MP5B	Mx	-.002	4.25
49	MP5C	X	2.073	.25
50	MP5C	Z	3.591	.25
51	MP5C	Mx	.002	.25
52	MP5C	X	2.073	4.25

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	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
53	MP5C	Z	3.591	4.25
54	MP5C	Mx	.002	4.25
55	MP3A	X	5.541	.5
56	MP3A	Z	9.597	.5
57	MP3A	Mx	.008	.5
58	MP3A	X	5.541	5.5
59	MP3A	Z	9.597	5.5
60	MP3A	Mx	.008	5.5
61	MP3B	X	3.799	.5
62	MP3B	Z	6.581	.5
63	MP3B	Mx	-.005	.5
64	MP3B	X	3.799	5.5
65	MP3B	Z	6.581	5.5
66	MP3B	Mx	-.005	5.5
67	MP3C	X	4.144	.5
68	MP3C	Z	7.177	.5
69	MP3C	Mx	.000826	.5
70	MP3C	X	4.144	5.5
71	MP3C	Z	7.177	5.5
72	MP3C	Mx	.000826	5.5
73	MP3A	X	5.541	.5
74	MP3A	Z	9.597	.5
75	MP3A	Mx	-.007	.5
76	MP3A	X	5.541	5.5
77	MP3A	Z	9.597	5.5
78	MP3A	Mx	-.007	5.5
79	MP3B	X	3.799	.5
80	MP3B	Z	6.581	.5
81	MP3B	Mx	-.002	.5
82	MP3B	X	3.799	5.5
83	MP3B	Z	6.581	5.5
84	MP3B	Mx	-.002	5.5
85	MP3C	X	4.144	.5
86	MP3C	Z	7.177	.5
87	MP3C	Mx	.006	.5
88	MP3C	X	4.144	5.5
89	MP3C	Z	7.177	5.5
90	MP3C	Mx	.006	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	2.38
2	MP1A	Z	5.118	2.38
3	MP1A	Mx	.001	2.38
4	MP1A	X	0	3.63
5	MP1A	Z	5.118	3.63
6	MP1A	Mx	.001	3.63
7	MP1B	X	0	2.38
8	MP1B	Z	2.766	2.38
9	MP1B	Mx	-.001	2.38
10	MP1B	X	0	3.63

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP1B	Z	2.766	3.63
12	MP1B	Mx	-.001	3.63
13	MP1C	X	0	2.38
14	MP1C	Z	5.426	2.38
15	MP1C	Mx	.001	2.38
16	MP1C	X	0	3.63
17	MP1C	Z	5.426	3.63
18	MP1C	Mx	.001	3.63
19	MP2A	X	0	2
20	MP2A	Z	4.537	2
21	MP2A	Mx	.001	2
22	MP2B	X	0	2
23	MP2B	Z	3.517	2
24	MP2B	Mx	-.002	2
25	MP2C	X	0	2
26	MP2C	Z	4.67	2
27	MP2C	Mx	.001	2
28	MP3A	X	0	2
29	MP3A	Z	4.324	2
30	MP3A	Mx	.001	2
31	MP3B	X	0	2
32	MP3B	Z	2.913	2
33	MP3B	Mx	-.001	2
34	MP3C	X	0	2
35	MP3C	Z	4.508	2
36	MP3C	Mx	.001	2
37	MP5A	X	0	.25
38	MP5A	Z	4.503	.25
39	MP5A	Mx	.001	.25
40	MP5A	X	0	4.25
41	MP5A	Z	4.503	4.25
42	MP5A	Mx	.001	4.25
43	MP5B	X	0	.25
44	MP5B	Z	3.81	.25
45	MP5B	Mx	-.002	.25
46	MP5B	X	0	4.25
47	MP5B	Z	3.81	4.25
48	MP5B	Mx	-.002	4.25
49	MP5C	X	0	.25
50	MP5C	Z	4.66	.25
51	MP5C	Mx	.000985	.25
52	MP5C	X	0	4.25
53	MP5C	Z	4.66	4.25
54	MP5C	Mx	.000985	4.25
55	MP3A	X	0	.5
56	MP3A	Z	9.872	.5
57	MP3A	Mx	.008	.5
58	MP3A	X	0	5.5
59	MP3A	Z	9.872	5.5
60	MP3A	Mx	.008	5.5
61	MP3B	X	0	.5
62	MP3B	Z	7.599	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	-.002	.5
64	MP3B	X	0	5.5
65	MP3B	Z	7.599	5.5
66	MP3B	Mx	-.002	5.5
67	MP3C	X	0	.5
68	MP3C	Z	10.169	.5
69	MP3C	Mx	-.003	.5
70	MP3C	X	0	5.5
71	MP3C	Z	10.169	5.5
72	MP3C	Mx	-.003	5.5
73	MP3A	X	0	.5
74	MP3A	Z	9.872	.5
75	MP3A	Mx	-.003	.5
76	MP3A	X	0	5.5
77	MP3A	Z	9.872	5.5
78	MP3A	Mx	-.003	5.5
79	MP3B	X	0	.5
80	MP3B	Z	7.599	.5
81	MP3B	Mx	-.005	.5
82	MP3B	X	0	5.5
83	MP3B	Z	7.599	5.5
84	MP3B	Mx	-.005	5.5
85	MP3C	X	0	.5
86	MP3C	Z	10.169	.5
87	MP3C	Mx	.008	.5
88	MP3C	X	0	5.5
89	MP3C	Z	10.169	5.5
90	MP3C	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-1.6	2.38
2	MP1A	Z	2.772	2.38
3	MP1A	Mx	.001	2.38
4	MP1A	X	-1.6	3.63
5	MP1A	Z	2.772	3.63
6	MP1A	Mx	.001	3.63
7	MP1B	X	-2.226	2.38
8	MP1B	Z	3.856	2.38
9	MP1B	Mx	-.002	2.38
10	MP1B	X	-2.226	3.63
11	MP1B	Z	3.856	3.63
12	MP1B	Mx	-.002	3.63
13	MP1C	X	-3.199	2.38
14	MP1C	Z	5.542	2.38
15	MP1C	Mx	0	2.38
16	MP1C	X	-3.199	3.63
17	MP1C	Z	5.542	3.63
18	MP1C	Mx	0	3.63
19	MP2A	X	-1.853	2
20	MP2A	Z	3.209	2

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP2A	Mx	.002	2
22	MP2B	X	-2.124	2
23	MP2B	Z	3.679	2
24	MP2B	Mx	-.002	2
25	MP2C	X	-2.546	2
26	MP2C	Z	4.41	2
27	MP2C	Mx	0	2
28	MP3A	X	-1.587	2
29	MP3A	Z	2.749	2
30	MP3A	Mx	.001	2
31	MP3B	X	-1.962	2
32	MP3B	Z	3.399	2
33	MP3B	Mx	-.001	2
34	MP3C	X	-2.546	2
35	MP3C	Z	4.41	2
36	MP3C	Mx	0	2
37	MP5A	X	-1.994	.25
38	MP5A	Z	3.455	.25
39	MP5A	Mx	.002	.25
40	MP5A	X	-1.994	4.25
41	MP5A	Z	3.455	4.25
42	MP5A	Mx	.002	4.25
43	MP5B	X	-2.073	.25
44	MP5B	Z	3.591	.25
45	MP5B	Mx	-.002	.25
46	MP5B	X	-2.073	4.25
47	MP5B	Z	3.591	4.25
48	MP5B	Mx	-.002	4.25
49	MP5C	X	-2.419	.25
50	MP5C	Z	4.191	.25
51	MP5C	Mx	-.000211	.25
52	MP5C	X	-2.419	4.25
53	MP5C	Z	4.191	4.25
54	MP5C	Mx	-.000211	4.25
55	MP3A	X	-4.009	.5
56	MP3A	Z	6.945	.5
57	MP3A	Mx	.006	.5
58	MP3A	X	-4.009	5.5
59	MP3A	Z	6.945	5.5
60	MP3A	Mx	.006	5.5
61	MP3B	X	-4.614	.5
62	MP3B	Z	7.992	.5
63	MP3B	Mx	.001	.5
64	MP3B	X	-4.614	5.5
65	MP3B	Z	7.992	5.5
66	MP3B	Mx	.001	5.5
67	MP3C	X	-5.555	.5
68	MP3C	Z	9.621	.5
69	MP3C	Mx	-.007	.5
70	MP3C	X	-5.555	5.5
71	MP3C	Z	9.621	5.5
72	MP3C	Mx	-.007	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	-4.009	.5
74	MP3A	Z	6.945	.5
75	MP3A	Mx	.001	.5
76	MP3A	X	-4.009	5.5
77	MP3A	Z	6.945	5.5
78	MP3A	Mx	.001	5.5
79	MP3B	X	-4.614	.5
80	MP3B	Z	7.992	.5
81	MP3B	Mx	-.008	.5
82	MP3B	X	-4.614	5.5
83	MP3B	Z	7.992	5.5
84	MP3B	Mx	-.008	5.5
85	MP3C	X	-5.555	.5
86	MP3C	Z	9.621	.5
87	MP3C	Mx	.007	.5
88	MP3C	X	-5.555	5.5
89	MP3C	Z	9.621	5.5
90	MP3C	Mx	.007	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.195	2.38
2	MP1A	Z	1.267	2.38
3	MP1A	Mx	.001	2.38
4	MP1A	X	-2.195	3.63
5	MP1A	Z	1.267	3.63
6	MP1A	Mx	.001	3.63
7	MP1B	X	-5.316	2.38
8	MP1B	Z	3.069	2.38
9	MP1B	Mx	-.000794	2.38
10	MP1B	X	-5.316	3.63
11	MP1B	Z	3.069	3.63
12	MP1B	Mx	-.000794	3.63
13	MP1C	X	-4.699	2.38
14	MP1C	Z	2.713	2.38
15	MP1C	Mx	-.001	2.38
16	MP1C	X	-4.699	3.63
17	MP1C	Z	2.713	3.63
18	MP1C	Mx	-.001	3.63
19	MP2A	X	-2.959	2
20	MP2A	Z	1.708	2
21	MP2A	Mx	.002	2
22	MP2B	X	-4.312	2
23	MP2B	Z	2.489	2
24	MP2B	Mx	-.000644	2
25	MP2C	X	-4.044	2
26	MP2C	Z	2.335	2
27	MP2C	Mx	-.001	2
28	MP3A	X	-2.403	2
29	MP3A	Z	1.387	2
30	MP3A	Mx	.001	2

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	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
31	MP3B	X	-4.274	2
32	MP3B	Z	2.468	2
33	MP3B	Mx	-.000639	2
34	MP3C	X	-3.904	2
35	MP3C	Z	2.254	2
36	MP3C	Mx	-.001	2
37	MP5A	X	-3.3	.25
38	MP5A	Z	1.905	.25
39	MP5A	Mx	.002	.25
40	MP5A	X	-3.3	4.25
41	MP5A	Z	1.905	4.25
42	MP5A	Mx	.002	4.25
43	MP5B	X	-4.036	.25
44	MP5B	Z	2.33	.25
45	MP5B	Mx	-.000985	.25
46	MP5B	X	-4.036	4.25
47	MP5B	Z	2.33	4.25
48	MP5B	Mx	-.000985	4.25
49	MP5C	X	-3.9	.25
50	MP5C	Z	2.252	.25
51	MP5C	Mx	-.001	.25
52	MP5C	X	-3.9	4.25
53	MP5C	Z	2.252	4.25
54	MP5C	Mx	-.001	4.25
55	MP3A	X	-6.387	.5
56	MP3A	Z	3.688	.5
57	MP3A	Mx	.003	.5
58	MP3A	X	-6.387	5.5
59	MP3A	Z	3.688	5.5
60	MP3A	Mx	.003	5.5
61	MP3B	X	-9.403	.5
62	MP3B	Z	5.429	.5
63	MP3B	Mx	.006	.5
64	MP3B	X	-9.403	5.5
65	MP3B	Z	5.429	5.5
66	MP3B	Mx	.006	5.5
67	MP3C	X	-8.807	.5
68	MP3C	Z	5.084	.5
69	MP3C	Mx	-.008	.5
70	MP3C	X	-8.807	5.5
71	MP3C	Z	5.084	5.5
72	MP3C	Mx	-.008	5.5
73	MP3A	X	-6.387	.5
74	MP3A	Z	3.688	.5
75	MP3A	Mx	.004	.5
76	MP3A	X	-6.387	5.5
77	MP3A	Z	3.688	5.5
78	MP3A	Mx	.004	5.5
79	MP3B	X	-9.403	.5
80	MP3B	Z	5.429	.5
81	MP3B	Mx	-.008	.5
82	MP3B	X	-9.403	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	5.429	5.5
84	MP3B	Mx	-.008	5.5
85	MP3C	X	-8.807	.5
86	MP3C	Z	5.084	.5
87	MP3C	Mx	.003	.5
88	MP3C	X	-8.807	5.5
89	MP3C	Z	5.084	5.5
90	MP3C	Mx	.003	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-3.786	2.38
2	MP1A	Z	0	2.38
3	MP1A	Mx	.002	2.38
4	MP1A	X	-3.786	3.63
5	MP1A	Z	0	3.63
6	MP1A	Mx	.002	3.63
7	MP1B	X	-6.138	2.38
8	MP1B	Z	0	2.38
9	MP1B	Mx	.000794	2.38
10	MP1B	X	-6.138	3.63
11	MP1B	Z	0	3.63
12	MP1B	Mx	.000794	3.63
13	MP1C	X	-3.479	2.38
14	MP1C	Z	0	2.38
15	MP1C	Mx	-.002	2.38
16	MP1C	X	-3.479	3.63
17	MP1C	Z	0	3.63
18	MP1C	Mx	-.002	3.63
19	MP2A	X	-3.959	2
20	MP2A	Z	0	2
21	MP2A	Mx	.002	2
22	MP2B	X	-4.979	2
23	MP2B	Z	0	2
24	MP2B	Mx	.000644	2
25	MP2C	X	-3.826	2
26	MP2C	Z	0	2
27	MP2C	Mx	-.002	2
28	MP3A	X	-3.525	2
29	MP3A	Z	0	2
30	MP3A	Mx	.001	2
31	MP3B	X	-4.936	2
32	MP3B	Z	0	2
33	MP3B	Mx	.000639	2
34	MP3C	X	-3.341	2
35	MP3C	Z	0	2
36	MP3C	Mx	-.001	2
37	MP5A	X	-4.146	.25
38	MP5A	Z	0	.25
39	MP5A	Mx	.002	.25
40	MP5A	X	-4.146	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	0	4.25
42	MP5A	Mx	.002	4.25
43	MP5B	X	-4.839	.25
44	MP5B	Z	0	.25
45	MP5B	Mx	.000211	.25
46	MP5B	X	-4.839	4.25
47	MP5B	Z	0	4.25
48	MP5B	Mx	.000211	4.25
49	MP5C	X	-3.989	.25
50	MP5C	Z	0	.25
51	MP5C	Mx	-.002	.25
52	MP5C	X	-3.989	4.25
53	MP5C	Z	0	4.25
54	MP5C	Mx	-.002	4.25
55	MP3A	X	-8.585	.5
56	MP3A	Z	0	.5
57	MP3A	Mx	.000233	.5
58	MP3A	X	-8.585	5.5
59	MP3A	Z	0	5.5
60	MP3A	Mx	.000233	5.5
61	MP3B	X	-10.858	.5
62	MP3B	Z	0	.5
63	MP3B	Mx	.008	.5
64	MP3B	X	-10.858	5.5
65	MP3B	Z	0	5.5
66	MP3B	Mx	.008	5.5
67	MP3C	X	-8.288	.5
68	MP3C	Z	0	.5
69	MP3C	Mx	-.006	.5
70	MP3C	X	-8.288	5.5
71	MP3C	Z	0	5.5
72	MP3C	Mx	-.006	5.5
73	MP3A	X	-8.585	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	.007	.5
76	MP3A	X	-8.585	5.5
77	MP3A	Z	0	5.5
78	MP3A	Mx	.007	5.5
79	MP3B	X	-10.858	.5
80	MP3B	Z	0	.5
81	MP3B	Mx	-.006	.5
82	MP3B	X	-10.858	5.5
83	MP3B	Z	0	5.5
84	MP3B	Mx	-.006	5.5
85	MP3C	X	-8.288	.5
86	MP3C	Z	0	.5
87	MP3C	Mx	-.000826	.5
88	MP3C	X	-8.288	5.5
89	MP3C	Z	0	5.5
90	MP3C	Mx	-.000826	5.5

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-4.939	2.38
2	MP1A	Z	-2.852	2.38
3	MP1A	Mx	.001	2.38
4	MP1A	X	-4.939	3.63
5	MP1A	Z	-2.852	3.63
6	MP1A	Mx	.001	3.63
7	MP1B	X	-3.856	2.38
8	MP1B	Z	-2.226	2.38
9	MP1B	Mx	.002	2.38
10	MP1B	X	-3.856	3.63
11	MP1B	Z	-2.226	3.63
12	MP1B	Mx	.002	3.63
13	MP1C	X	-2.17	2.38
14	MP1C	Z	-1.253	2.38
15	MP1C	Mx	-.001	2.38
16	MP1C	X	-2.17	3.63
17	MP1C	Z	-1.253	3.63
18	MP1C	Mx	-.001	3.63
19	MP2A	X	-4.149	2
20	MP2A	Z	-2.395	2
21	MP2A	Mx	.001	2
22	MP2B	X	-3.679	2
23	MP2B	Z	-2.124	2
24	MP2B	Mx	.002	2
25	MP2C	X	-2.948	2
26	MP2C	Z	-1.702	2
27	MP2C	Mx	-.002	2
28	MP3A	X	-4.049	2
29	MP3A	Z	-2.337	2
30	MP3A	Mx	.000988	2
31	MP3B	X	-3.399	2
32	MP3B	Z	-1.962	2
33	MP3B	Mx	.001	2
34	MP3C	X	-2.388	2
35	MP3C	Z	-1.378	2
36	MP3C	Mx	-.001	2
37	MP5A	X	-4.036	.25
38	MP5A	Z	-2.33	.25
39	MP5A	Mx	.000985	.25
40	MP5A	X	-4.036	4.25
41	MP5A	Z	-2.33	4.25
42	MP5A	Mx	.000985	4.25
43	MP5B	X	-3.9	.25
44	MP5B	Z	-2.252	.25
45	MP5B	Mx	.001	.25
46	MP5B	X	-3.9	4.25
47	MP5B	Z	-2.252	4.25
48	MP5B	Mx	.001	4.25
49	MP5C	X	-3.3	.25
50	MP5C	Z	-1.905	.25
51	MP5C	Mx	-.002	.25
52	MP5C	X	-3.3	4.25

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	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
53	MP5C	Z	-1.905	4.25
54	MP5C	Mx	-.002	4.25
55	MP3A	X	-9.039	.5
56	MP3A	Z	-5.219	.5
57	MP3A	Mx	-.004	.5
58	MP3A	X	-9.039	5.5
59	MP3A	Z	-5.219	5.5
60	MP3A	Mx	-.004	5.5
61	MP3B	X	-7.992	.5
62	MP3B	Z	-4.614	.5
63	MP3B	Mx	.008	.5
64	MP3B	X	-7.992	5.5
65	MP3B	Z	-4.614	5.5
66	MP3B	Mx	.008	5.5
67	MP3C	X	-6.363	.5
68	MP3C	Z	-3.673	.5
69	MP3C	Mx	-.004	.5
70	MP3C	X	-6.363	5.5
71	MP3C	Z	-3.673	5.5
72	MP3C	Mx	-.004	5.5
73	MP3A	X	-9.039	.5
74	MP3A	Z	-5.219	.5
75	MP3A	Mx	.009	.5
76	MP3A	X	-9.039	5.5
77	MP3A	Z	-5.219	5.5
78	MP3A	Mx	.009	5.5
79	MP3B	X	-7.992	.5
80	MP3B	Z	-4.614	.5
81	MP3B	Mx	-.001	.5
82	MP3B	X	-7.992	5.5
83	MP3B	Z	-4.614	5.5
84	MP3B	Mx	-.001	5.5
85	MP3C	X	-6.363	.5
86	MP3C	Z	-3.673	.5
87	MP3C	Mx	-.004	.5
88	MP3C	X	-6.363	5.5
89	MP3C	Z	-3.673	5.5
90	MP3C	Mx	-.004	5.5

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-3.185	2.38
2	MP1A	Z	-5.516	2.38
3	MP1A	Mx	-.000277	2.38
4	MP1A	X	-3.185	3.63
5	MP1A	Z	-5.516	3.63
6	MP1A	Mx	-.000277	3.63
7	MP1B	X	-1.383	2.38
8	MP1B	Z	-2.395	2.38
9	MP1B	Mx	.001	2.38
10	MP1B	X	-1.383	3.63

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	Member Label	Direction	Magnitude [lb,k-ft]	Location [ft, %]
11	MP1B	Z	-2.395	3.63
12	MP1B	Mx	.001	3.63
13	MP1C	X	-1.739	2.38
14	MP1C	Z	-3.013	2.38
15	MP1C	Mx	-.002	2.38
16	MP1C	X	-1.739	3.63
17	MP1C	Z	-3.013	3.63
18	MP1C	Mx	-.002	3.63
19	MP2A	X	-2.54	2
20	MP2A	Z	-4.399	2
21	MP2A	Mx	-.000221	2
22	MP2B	X	-1.758	2
23	MP2B	Z	-3.046	2
24	MP2B	Mx	.002	2
25	MP2C	X	-1.913	2
26	MP2C	Z	-3.313	2
27	MP2C	Mx	-.002	2
28	MP3A	X	-2.537	2
29	MP3A	Z	-4.394	2
30	MP3A	Mx	-.000221	2
31	MP3B	X	-1.457	2
32	MP3B	Z	-2.523	2
33	MP3B	Mx	.001	2
34	MP3C	X	-1.67	2
35	MP3C	Z	-2.893	2
36	MP3C	Mx	-.001	2
37	MP5A	X	-2.419	.25
38	MP5A	Z	-4.191	.25
39	MP5A	Mx	-.000211	.25
40	MP5A	X	-2.419	4.25
41	MP5A	Z	-4.191	4.25
42	MP5A	Mx	-.000211	4.25
43	MP5B	X	-1.994	.25
44	MP5B	Z	-3.455	.25
45	MP5B	Mx	.002	.25
46	MP5B	X	-1.994	4.25
47	MP5B	Z	-3.455	4.25
48	MP5B	Mx	.002	4.25
49	MP5C	X	-2.073	.25
50	MP5C	Z	-3.591	.25
51	MP5C	Mx	-.002	.25
52	MP5C	X	-2.073	4.25
53	MP5C	Z	-3.591	4.25
54	MP5C	Mx	-.002	4.25
55	MP3A	X	-5.541	.5
56	MP3A	Z	-9.597	.5
57	MP3A	Mx	-.008	.5
58	MP3A	X	-5.541	5.5
59	MP3A	Z	-9.597	5.5
60	MP3A	Mx	-.008	5.5
61	MP3B	X	-3.799	.5
62	MP3B	Z	-6.581	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3B	Mx	.005	.5
64	MP3B	X	-3.799	5.5
65	MP3B	Z	-6.581	5.5
66	MP3B	Mx	.005	5.5
67	MP3C	X	-4.144	.5
68	MP3C	Z	-7.177	.5
69	MP3C	Mx	-.000826	.5
70	MP3C	X	-4.144	5.5
71	MP3C	Z	-7.177	5.5
72	MP3C	Mx	-.000826	5.5
73	MP3A	X	-5.541	.5
74	MP3A	Z	-9.597	.5
75	MP3A	Mx	.007	.5
76	MP3A	X	-5.541	5.5
77	MP3A	Z	-9.597	5.5
78	MP3A	Mx	.007	5.5
79	MP3B	X	-3.799	.5
80	MP3B	Z	-6.581	.5
81	MP3B	Mx	.002	.5
82	MP3B	X	-3.799	5.5
83	MP3B	Z	-6.581	5.5
84	MP3B	Mx	.002	5.5
85	MP3C	X	-4.144	.5
86	MP3C	Z	-7.177	.5
87	MP3C	Mx	-.006	.5
88	MP3C	X	-4.144	5.5
89	MP3C	Z	-7.177	5.5
90	MP3C	Mx	-.006	5.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7A	Y	-500	%50

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7A	Y	-500	%93

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.761	-9.761	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
42	MP1C	Z	-9.568	-9.568	0	%100
43	MP2C	X	5.293	5.293	0	%100
44	MP2C	Z	-9.167	-9.167	0	%100
45	MP3C	X	5.524	5.524	0	%100
46	MP3C	Z	-9.568	-9.568	0	%100
47	MP4C	X	5.524	5.524	0	%100
48	MP4C	Z	-9.568	-9.568	0	%100
49	MP5C	X	5.524	5.524	0	%100
50	MP5C	Z	-9.568	-9.568	0	%100
51	MP1B	X	5.524	5.524	0	%100
52	MP1B	Z	-9.568	-9.568	0	%100
53	MP2B	X	5.293	5.293	0	%100
54	MP2B	Z	-9.167	-9.167	0	%100
55	MP3B	X	5.524	5.524	0	%100
56	MP3B	Z	-9.568	-9.568	0	%100
57	MP4B	X	5.524	5.524	0	%100
58	MP4B	Z	-9.568	-9.568	0	%100
59	MP5B	X	5.524	5.524	0	%100
60	MP5B	Z	-9.568	-9.568	0	%100
61	M52	X	5.015	5.015	0	%100
62	M52	Z	-8.687	-8.687	0	%100
63	M60	X	5.015	5.015	0	%100
64	M60	Z	-8.687	-8.687	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	5.91	5.91	0	%100
68	M66	Z	-10.237	-10.237	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	5.91	5.91	0	%100
72	M68	Z	-10.237	-10.237	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	8.634	8.634	0	%100
2	M1	Z	-4.985	-4.985	0	%100
3	M2	X	11.247	11.247	0	%100
4	M2	Z	-6.493	-6.493	0	%100
5	M5	X	12.842	12.842	0	%100
6	M5	Z	-7.414	-7.414	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	12.842	12.842	0	%100
10	M7	Z	-7.414	-7.414	0	%100
11	M6A	X	5.036	5.036	0	%100
12	M6A	Z	-2.908	-2.908	0	%100
13	M7A	X	5.036	5.036	0	%100
14	M7A	Z	-2.908	-2.908	0	%100
15	M23A	X	20.144	20.144	0	%100
16	M23A	Z	-11.63	-11.63	0	%100
17	M24	X	20.144	20.144	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	M56	X	0	0	0	%100
30	M56	Z	12.987	12.987	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	11.049	11.049	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	10.586	10.586	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	11.049	11.049	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	11.049	11.049	0	%100
39	MP5A	X	0	0	0	%100
40	MP5A	Z	11.049	11.049	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	11.049	11.049	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	10.586	10.586	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	11.049	11.049	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	11.049	11.049	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	11.049	11.049	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	11.049	11.049	0	%100
53	MP2B	X	0	0	0	%100
54	MP2B	Z	10.586	10.586	0	%100
55	MP3B	X	0	0	0	%100
56	MP3B	Z	11.049	11.049	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	11.049	11.049	0	%100
59	MP5B	X	0	0	0	%100
60	MP5B	Z	11.049	11.049	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	13.375	13.375	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	3.344	3.344	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	3.344	3.344	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	3.94	3.94	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	3.94	3.94	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	15.761	15.761	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.662	-1.662	0	%100
2	M1	Z	2.878	2.878	0	%100
3	M2	X	-2.164	-2.164	0	%100
4	M2	Z	3.749	3.749	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	M5	X	-2.471	-2.471	0	%100
6	M5	Z	4.281	4.281	0	%100
7	M6	X	-2.471	-2.471	0	%100
8	M6	Z	4.281	4.281	0	%100
9	M7	X	-9.886	-9.886	0	%100
10	M7	Z	17.122	17.122	0	%100
11	M6A	X	-8.723	-8.723	0	%100
12	M6A	Z	15.108	15.108	0	%100
13	M7A	X	-8.723	-8.723	0	%100
14	M7A	Z	15.108	15.108	0	%100
15	M23A	X	-8.723	-8.723	0	%100
16	M23A	Z	15.108	15.108	0	%100
17	M24	X	-8.723	-8.723	0	%100
18	M24	Z	15.108	15.108	0	%100
19	M38	X	-1.662	-1.662	0	%100
20	M38	Z	2.878	2.878	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-6.646	-6.646	0	%100
26	M54	Z	11.512	11.512	0	%100
27	M55	X	-2.164	-2.164	0	%100
28	M55	Z	3.749	3.749	0	%100
29	M56	X	-8.658	-8.658	0	%100
30	M56	Z	14.996	14.996	0	%100
31	MP1A	X	-5.524	-5.524	0	%100
32	MP1A	Z	9.568	9.568	0	%100
33	MP2A	X	-5.293	-5.293	0	%100
34	MP2A	Z	9.167	9.167	0	%100
35	MP3A	X	-5.524	-5.524	0	%100
36	MP3A	Z	9.568	9.568	0	%100
37	MP4A	X	-5.524	-5.524	0	%100
38	MP4A	Z	9.568	9.568	0	%100
39	MP5A	X	-5.524	-5.524	0	%100
40	MP5A	Z	9.568	9.568	0	%100
41	MP1C	X	-5.524	-5.524	0	%100
42	MP1C	Z	9.568	9.568	0	%100
43	MP2C	X	-5.293	-5.293	0	%100
44	MP2C	Z	9.167	9.167	0	%100
45	MP3C	X	-5.524	-5.524	0	%100
46	MP3C	Z	9.568	9.568	0	%100
47	MP4C	X	-5.524	-5.524	0	%100
48	MP4C	Z	9.568	9.568	0	%100
49	MP5C	X	-5.524	-5.524	0	%100
50	MP5C	Z	9.568	9.568	0	%100
51	MP1B	X	-5.524	-5.524	0	%100
52	MP1B	Z	9.568	9.568	0	%100
53	MP2B	X	-5.293	-5.293	0	%100
54	MP2B	Z	9.167	9.167	0	%100
55	MP3B	X	-5.524	-5.524	0	%100
56	MP3B	Z	9.568	9.568	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
57	MP4B	X	-5.524	-5.524	0	%100
58	MP4B	Z	9.568	9.568	0	%100
59	MP5B	X	-5.524	-5.524	0	%100
60	MP5B	Z	9.568	9.568	0	%100
61	M52	X	-5.015	-5.015	0	%100
62	M52	Z	8.687	8.687	0	%100
63	M60	X	-5.015	-5.015	0	%100
64	M60	Z	8.687	8.687	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	-5.91	-5.91	0	%100
68	M66	Z	10.237	10.237	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	-5.91	-5.91	0	%100
72	M68	Z	10.237	10.237	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-8.634	-8.634	0	%100
2	M1	Z	4.985	4.985	0	%100
3	M2	X	-11.247	-11.247	0	%100
4	M2	Z	6.493	6.493	0	%100
5	M5	X	-12.842	-12.842	0	%100
6	M5	Z	7.414	7.414	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-12.842	-12.842	0	%100
10	M7	Z	7.414	7.414	0	%100
11	M6A	X	-5.036	-5.036	0	%100
12	M6A	Z	2.908	2.908	0	%100
13	M7A	X	-5.036	-5.036	0	%100
14	M7A	Z	2.908	2.908	0	%100
15	M23A	X	-20.144	-20.144	0	%100
16	M23A	Z	11.63	11.63	0	%100
17	M24	X	-20.144	-20.144	0	%100
18	M24	Z	11.63	11.63	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-5.036	-5.036	0	%100
22	M39A	Z	2.908	2.908	0	%100
23	M40	X	-5.036	-5.036	0	%100
24	M40	Z	2.908	2.908	0	%100
25	M54	X	-8.634	-8.634	0	%100
26	M54	Z	4.985	4.985	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-11.247	-11.247	0	%100
30	M56	Z	6.493	6.493	0	%100
31	MP1A	X	-9.568	-9.568	0	%100
32	MP1A	Z	5.524	5.524	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP2A	X	-9.167	-9.167	0	%100
34	MP2A	Z	5.293	5.293	0	%100
35	MP3A	X	-9.568	-9.568	0	%100
36	MP3A	Z	5.524	5.524	0	%100
37	MP4A	X	-9.568	-9.568	0	%100
38	MP4A	Z	5.524	5.524	0	%100
39	MP5A	X	-9.568	-9.568	0	%100
40	MP5A	Z	5.524	5.524	0	%100
41	MP1C	X	-9.568	-9.568	0	%100
42	MP1C	Z	5.524	5.524	0	%100
43	MP2C	X	-9.167	-9.167	0	%100
44	MP2C	Z	5.293	5.293	0	%100
45	MP3C	X	-9.568	-9.568	0	%100
46	MP3C	Z	5.524	5.524	0	%100
47	MP4C	X	-9.568	-9.568	0	%100
48	MP4C	Z	5.524	5.524	0	%100
49	MP5C	X	-9.568	-9.568	0	%100
50	MP5C	Z	5.524	5.524	0	%100
51	MP1B	X	-9.568	-9.568	0	%100
52	MP1B	Z	5.524	5.524	0	%100
53	MP2B	X	-9.167	-9.167	0	%100
54	MP2B	Z	5.293	5.293	0	%100
55	MP3B	X	-9.568	-9.568	0	%100
56	MP3B	Z	5.524	5.524	0	%100
57	MP4B	X	-9.568	-9.568	0	%100
58	MP4B	Z	5.524	5.524	0	%100
59	MP5B	X	-9.568	-9.568	0	%100
60	MP5B	Z	5.524	5.524	0	%100
61	M52	X	-2.896	-2.896	0	%100
62	M52	Z	1.672	1.672	0	%100
63	M60	X	-11.583	-11.583	0	%100
64	M60	Z	6.687	6.687	0	%100
65	M63	X	-2.896	-2.896	0	%100
66	M63	Z	1.672	1.672	0	%100
67	M66	X	-13.649	-13.649	0	%100
68	M66	Z	7.88	7.88	0	%100
69	M67	X	-3.412	-3.412	0	%100
70	M67	Z	1.97	1.97	0	%100
71	M68	X	-3.412	-3.412	0	%100
72	M68	Z	1.97	1.97	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-13.293	-13.293	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-17.316	-17.316	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-19.771	-19.771	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-4.943	-4.943	0	%100
8	M6	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	M7	X	-4.943	-4.943	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-17.445	-17.445	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-17.445	-17.445	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-3.323	-3.323	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-17.445	-17.445	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-17.445	-17.445	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-3.323	-3.323	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-4.329	-4.329	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-4.329	-4.329	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	-11.049	-11.049	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	-10.586	-10.586	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	-11.049	-11.049	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	-11.049	-11.049	0	%100
38	MP4A	Z	0	0	0	%100
39	MP5A	X	-11.049	-11.049	0	%100
40	MP5A	Z	0	0	0	%100
41	MP1C	X	-11.049	-11.049	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	-10.586	-10.586	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-11.049	-11.049	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-11.049	-11.049	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	-11.049	-11.049	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	-11.049	-11.049	0	%100
52	MP1B	Z	0	0	0	%100
53	MP2B	X	-10.586	-10.586	0	%100
54	MP2B	Z	0	0	0	%100
55	MP3B	X	-11.049	-11.049	0	%100
56	MP3B	Z	0	0	0	%100
57	MP4B	X	-11.049	-11.049	0	%100
58	MP4B	Z	0	0	0	%100
59	MP5B	X	-11.049	-11.049	0	%100
60	MP5B	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M60	X	-10.031	-10.031	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	-10.031	-10.031	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	-11.82	-11.82	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	-11.82	-11.82	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-8.634	-8.634	0	%100
2	M1	Z	-4.985	-4.985	0	%100
3	M2	X	-11.247	-11.247	0	%100
4	M2	Z	-6.493	-6.493	0	%100
5	M5	X	-12.842	-12.842	0	%100
6	M5	Z	-7.414	-7.414	0	%100
7	M6	X	-12.842	-12.842	0	%100
8	M6	Z	-7.414	-7.414	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-5.036	-5.036	0	%100
12	M6A	Z	-2.908	-2.908	0	%100
13	M7A	X	-5.036	-5.036	0	%100
14	M7A	Z	-2.908	-2.908	0	%100
15	M23A	X	-5.036	-5.036	0	%100
16	M23A	Z	-2.908	-2.908	0	%100
17	M24	X	-5.036	-5.036	0	%100
18	M24	Z	-2.908	-2.908	0	%100
19	M38	X	-8.634	-8.634	0	%100
20	M38	Z	-4.985	-4.985	0	%100
21	M39A	X	-20.144	-20.144	0	%100
22	M39A	Z	-11.63	-11.63	0	%100
23	M40	X	-20.144	-20.144	0	%100
24	M40	Z	-11.63	-11.63	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-11.247	-11.247	0	%100
28	M55	Z	-6.493	-6.493	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	-9.568	-9.568	0	%100
32	MP1A	Z	-5.524	-5.524	0	%100
33	MP2A	X	-9.167	-9.167	0	%100
34	MP2A	Z	-5.293	-5.293	0	%100
35	MP3A	X	-9.568	-9.568	0	%100
36	MP3A	Z	-5.524	-5.524	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP4A	X	-9.568	-9.568	0	%100
38	MP4A	Z	-5.524	-5.524	0	%100
39	MP5A	X	-9.568	-9.568	0	%100
40	MP5A	Z	-5.524	-5.524	0	%100
41	MP1C	X	-9.568	-9.568	0	%100
42	MP1C	Z	-5.524	-5.524	0	%100
43	MP2C	X	-9.167	-9.167	0	%100
44	MP2C	Z	-5.293	-5.293	0	%100
45	MP3C	X	-9.568	-9.568	0	%100
46	MP3C	Z	-5.524	-5.524	0	%100
47	MP4C	X	-9.568	-9.568	0	%100
48	MP4C	Z	-5.524	-5.524	0	%100
49	MP5C	X	-9.568	-9.568	0	%100
50	MP5C	Z	-5.524	-5.524	0	%100
51	MP1B	X	-9.568	-9.568	0	%100
52	MP1B	Z	-5.524	-5.524	0	%100
53	MP2B	X	-9.167	-9.167	0	%100
54	MP2B	Z	-5.293	-5.293	0	%100
55	MP3B	X	-9.568	-9.568	0	%100
56	MP3B	Z	-5.524	-5.524	0	%100
57	MP4B	X	-9.568	-9.568	0	%100
58	MP4B	Z	-5.524	-5.524	0	%100
59	MP5B	X	-9.568	-9.568	0	%100
60	MP5B	Z	-5.524	-5.524	0	%100
61	M52	X	-2.896	-2.896	0	%100
62	M52	Z	-1.672	-1.672	0	%100
63	M60	X	-2.896	-2.896	0	%100
64	M60	Z	-1.672	-1.672	0	%100
65	M63	X	-11.583	-11.583	0	%100
66	M63	Z	-6.687	-6.687	0	%100
67	M66	X	-3.412	-3.412	0	%100
68	M66	Z	-1.97	-1.97	0	%100
69	M67	X	-13.649	-13.649	0	%100
70	M67	Z	-7.88	-7.88	0	%100
71	M68	X	-3.412	-3.412	0	%100
72	M68	Z	-1.97	-1.97	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.662	-1.662	0	%100
2	M1	Z	-2.878	-2.878	0	%100
3	M2	X	-2.164	-2.164	0	%100
4	M2	Z	-3.749	-3.749	0	%100
5	M5	X	-2.471	-2.471	0	%100
6	M5	Z	-4.281	-4.281	0	%100
7	M6	X	-9.886	-9.886	0	%100
8	M6	Z	-17.122	-17.122	0	%100
9	M7	X	-2.471	-2.471	0	%100
10	M7	Z	-4.281	-4.281	0	%100
11	M6A	X	-8.723	-8.723	0	%100
12	M6A	Z	-15.108	-15.108	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M7A	X	-8.723	-8.723	0	%100
14	M7A	Z	-15.108	-15.108	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-6.646	-6.646	0	%100
20	M38	Z	-11.512	-11.512	0	%100
21	M39A	X	-8.723	-8.723	0	%100
22	M39A	Z	-15.108	-15.108	0	%100
23	M40	X	-8.723	-8.723	0	%100
24	M40	Z	-15.108	-15.108	0	%100
25	M54	X	-1.662	-1.662	0	%100
26	M54	Z	-2.878	-2.878	0	%100
27	M55	X	-8.658	-8.658	0	%100
28	M55	Z	-14.996	-14.996	0	%100
29	M56	X	-2.164	-2.164	0	%100
30	M56	Z	-3.749	-3.749	0	%100
31	MP1A	X	-5.524	-5.524	0	%100
32	MP1A	Z	-9.568	-9.568	0	%100
33	MP2A	X	-5.293	-5.293	0	%100
34	MP2A	Z	-9.167	-9.167	0	%100
35	MP3A	X	-5.524	-5.524	0	%100
36	MP3A	Z	-9.568	-9.568	0	%100
37	MP4A	X	-5.524	-5.524	0	%100
38	MP4A	Z	-9.568	-9.568	0	%100
39	MP5A	X	-5.524	-5.524	0	%100
40	MP5A	Z	-9.568	-9.568	0	%100
41	MP1C	X	-5.524	-5.524	0	%100
42	MP1C	Z	-9.568	-9.568	0	%100
43	MP2C	X	-5.293	-5.293	0	%100
44	MP2C	Z	-9.167	-9.167	0	%100
45	MP3C	X	-5.524	-5.524	0	%100
46	MP3C	Z	-9.568	-9.568	0	%100
47	MP4C	X	-5.524	-5.524	0	%100
48	MP4C	Z	-9.568	-9.568	0	%100
49	MP5C	X	-5.524	-5.524	0	%100
50	MP5C	Z	-9.568	-9.568	0	%100
51	MP1B	X	-5.524	-5.524	0	%100
52	MP1B	Z	-9.568	-9.568	0	%100
53	MP2B	X	-5.293	-5.293	0	%100
54	MP2B	Z	-9.167	-9.167	0	%100
55	MP3B	X	-5.524	-5.524	0	%100
56	MP3B	Z	-9.568	-9.568	0	%100
57	MP4B	X	-5.524	-5.524	0	%100
58	MP4B	Z	-9.568	-9.568	0	%100
59	MP5B	X	-5.524	-5.524	0	%100
60	MP5B	Z	-9.568	-9.568	0	%100
61	M52	X	-5.015	-5.015	0	%100
62	M52	Z	-8.687	-8.687	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M63	X	-5.015	-5.015	0	%100
66	M63	Z	-8.687	-8.687	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	-5.91	-5.91	0	%100
70	M67	Z	-10.237	-10.237	0	%100
71	M68	X	-5.91	-5.91	0	%100
72	M68	Z	-10.237	-10.237	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.628	-3.628	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.628	-3.628	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-5.552	-5.552	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-5.552	-5.552	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-1.388	-1.388	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	-1.388	-1.388	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-2.466	-2.466	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-1.388	-1.388	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-1.388	-1.388	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-2.466	-2.466	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-3.077	-3.077	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	-3.077	-3.077	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-3.567	-3.567	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-3.428	-3.428	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-3.567	-3.567	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-3.567	-3.567	0	%100
39	MP5A	X	0	0	0	%100
40	MP5A	Z	-3.567	-3.567	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-3.567	-3.567	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-3.428	-3.428	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-3.567	-3.567	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-3.567	-3.567	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	-3.567	-3.567	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-3.567	-3.567	0	%100
53	MP2B	X	0	0	0	%100
54	MP2B	Z	-3.428	-3.428	0	%100
55	MP3B	X	0	0	0	%100
56	MP3B	Z	-3.567	-3.567	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	-3.567	-3.567	0	%100
59	MP5B	X	0	0	0	%100
60	MP5B	Z	-3.567	-3.567	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	-3.945	-3.945	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	-.986	-.986	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-.986	-.986	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	-.941	-.941	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	-.941	-.941	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-3.765	-3.765	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.411	.411	0	%100
2	M1	Z	-.712	-.712	0	%100
3	M2	X	.513	.513	0	%100
4	M2	Z	-.888	-.888	0	%100
5	M5	X	.605	.605	0	%100
6	M5	Z	-1.047	-1.047	0	%100
7	M6	X	.605	.605	0	%100
8	M6	Z	-1.047	-1.047	0	%100
9	M7	X	2.419	2.419	0	%100
10	M7	Z	-4.19	-4.19	0	%100
11	M6A	X	2.082	2.082	0	%100
12	M6A	Z	-3.606	-3.606	0	%100
13	M7A	X	2.082	2.082	0	%100
14	M7A	Z	-3.606	-3.606	0	%100
15	M23A	X	2.082	2.082	0	%100
16	M23A	Z	-3.606	-3.606	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
17	M24	X	2.082	2.082	0	%100
18	M24	Z	-3.606	-3.606	0	%100
19	M38	X	.411	.411	0	%100
20	M38	Z	-.712	-.712	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	1.644	1.644	0	%100
26	M54	Z	-2.848	-2.848	0	%100
27	M55	X	.513	.513	0	%100
28	M55	Z	-.888	-.888	0	%100
29	M56	X	2.051	2.051	0	%100
30	M56	Z	-3.553	-3.553	0	%100
31	MP1A	X	1.783	1.783	0	%100
32	MP1A	Z	-3.089	-3.089	0	%100
33	MP2A	X	1.714	1.714	0	%100
34	MP2A	Z	-2.969	-2.969	0	%100
35	MP3A	X	1.783	1.783	0	%100
36	MP3A	Z	-3.089	-3.089	0	%100
37	MP4A	X	1.783	1.783	0	%100
38	MP4A	Z	-3.089	-3.089	0	%100
39	MP5A	X	1.783	1.783	0	%100
40	MP5A	Z	-3.089	-3.089	0	%100
41	MP1C	X	1.783	1.783	0	%100
42	MP1C	Z	-3.089	-3.089	0	%100
43	MP2C	X	1.714	1.714	0	%100
44	MP2C	Z	-2.969	-2.969	0	%100
45	MP3C	X	1.783	1.783	0	%100
46	MP3C	Z	-3.089	-3.089	0	%100
47	MP4C	X	1.783	1.783	0	%100
48	MP4C	Z	-3.089	-3.089	0	%100
49	MP5C	X	1.783	1.783	0	%100
50	MP5C	Z	-3.089	-3.089	0	%100
51	MP1B	X	1.783	1.783	0	%100
52	MP1B	Z	-3.089	-3.089	0	%100
53	MP2B	X	1.714	1.714	0	%100
54	MP2B	Z	-2.969	-2.969	0	%100
55	MP3B	X	1.783	1.783	0	%100
56	MP3B	Z	-3.089	-3.089	0	%100
57	MP4B	X	1.783	1.783	0	%100
58	MP4B	Z	-3.089	-3.089	0	%100
59	MP5B	X	1.783	1.783	0	%100
60	MP5B	Z	-3.089	-3.089	0	%100
61	M52	X	1.479	1.479	0	%100
62	M52	Z	-2.562	-2.562	0	%100
63	M60	X	1.479	1.479	0	%100
64	M60	Z	-2.562	-2.562	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	1.412	1.412	0	%100
68	M66	Z	-2.445	-2.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	1.412	1.412	0	%100
72	M68	Z	-2.445	-2.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.136	2.136	0	%100
2	M1	Z	-1.233	-1.233	0	%100
3	M2	X	2.665	2.665	0	%100
4	M2	Z	-1.538	-1.538	0	%100
5	M5	X	3.142	3.142	0	%100
6	M5	Z	-1.814	-1.814	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	3.142	3.142	0	%100
10	M7	Z	-1.814	-1.814	0	%100
11	M6A	X	1.202	1.202	0	%100
12	M6A	Z	-.694	-.694	0	%100
13	M7A	X	1.202	1.202	0	%100
14	M7A	Z	-.694	-.694	0	%100
15	M23A	X	4.808	4.808	0	%100
16	M23A	Z	-2.776	-2.776	0	%100
17	M24	X	4.808	4.808	0	%100
18	M24	Z	-2.776	-2.776	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	1.202	1.202	0	%100
22	M39A	Z	-.694	-.694	0	%100
23	M40	X	1.202	1.202	0	%100
24	M40	Z	-.694	-.694	0	%100
25	M54	X	2.136	2.136	0	%100
26	M54	Z	-1.233	-1.233	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	2.665	2.665	0	%100
30	M56	Z	-1.538	-1.538	0	%100
31	MP1A	X	3.089	3.089	0	%100
32	MP1A	Z	-1.783	-1.783	0	%100
33	MP2A	X	2.969	2.969	0	%100
34	MP2A	Z	-1.714	-1.714	0	%100
35	MP3A	X	3.089	3.089	0	%100
36	MP3A	Z	-1.783	-1.783	0	%100
37	MP4A	X	3.089	3.089	0	%100
38	MP4A	Z	-1.783	-1.783	0	%100
39	MP5A	X	3.089	3.089	0	%100
40	MP5A	Z	-1.783	-1.783	0	%100
41	MP1C	X	3.089	3.089	0	%100
42	MP1C	Z	-1.783	-1.783	0	%100
43	MP2C	X	2.969	2.969	0	%100
44	MP2C	Z	-1.714	-1.714	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	MP3C	X	3.089	3.089	0	%100
46	MP3C	Z	-1.783	-1.783	0	%100
47	MP4C	X	3.089	3.089	0	%100
48	MP4C	Z	-1.783	-1.783	0	%100
49	MP5C	X	3.089	3.089	0	%100
50	MP5C	Z	-1.783	-1.783	0	%100
51	MP1B	X	3.089	3.089	0	%100
52	MP1B	Z	-1.783	-1.783	0	%100
53	MP2B	X	2.969	2.969	0	%100
54	MP2B	Z	-1.714	-1.714	0	%100
55	MP3B	X	3.089	3.089	0	%100
56	MP3B	Z	-1.783	-1.783	0	%100
57	MP4B	X	3.089	3.089	0	%100
58	MP4B	Z	-1.783	-1.783	0	%100
59	MP5B	X	3.089	3.089	0	%100
60	MP5B	Z	-1.783	-1.783	0	%100
61	M52	X	.854	.854	0	%100
62	M52	Z	-.493	-.493	0	%100
63	M60	X	3.416	3.416	0	%100
64	M60	Z	-1.972	-1.972	0	%100
65	M63	X	.854	.854	0	%100
66	M63	Z	-.493	-.493	0	%100
67	M66	X	3.261	3.261	0	%100
68	M66	Z	-1.883	-1.883	0	%100
69	M67	X	.815	.815	0	%100
70	M67	Z	-.471	-.471	0	%100
71	M68	X	.815	.815	0	%100
72	M68	Z	-.471	-.471	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.289	3.289	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	4.102	4.102	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	4.838	4.838	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.209	1.209	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	1.209	1.209	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	4.164	4.164	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	4.164	4.164	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.822	.822	0	%100
20	M38	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M39A	X	4.164	4.164	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	4.164	4.164	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.822	.822	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	1.026	1.026	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	1.026	1.026	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	3.567	3.567	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	3.428	3.428	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	3.567	3.567	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	3.567	3.567	0	%100
38	MP4A	Z	0	0	0	%100
39	MP5A	X	3.567	3.567	0	%100
40	MP5A	Z	0	0	0	%100
41	MP1C	X	3.567	3.567	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	3.428	3.428	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	3.567	3.567	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	3.567	3.567	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	3.567	3.567	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	3.567	3.567	0	%100
52	MP1B	Z	0	0	0	%100
53	MP2B	X	3.428	3.428	0	%100
54	MP2B	Z	0	0	0	%100
55	MP3B	X	3.567	3.567	0	%100
56	MP3B	Z	0	0	0	%100
57	MP4B	X	3.567	3.567	0	%100
58	MP4B	Z	0	0	0	%100
59	MP5B	X	3.567	3.567	0	%100
60	MP5B	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M60	X	2.959	2.959	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	2.959	2.959	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	2.824	2.824	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	2.824	2.824	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.136	2.136	0	%100
2	M1	Z	1.233	1.233	0	%100
3	M2	X	2.665	2.665	0	%100
4	M2	Z	1.538	1.538	0	%100
5	M5	X	3.142	3.142	0	%100
6	M5	Z	1.814	1.814	0	%100
7	M6	X	3.142	3.142	0	%100
8	M6	Z	1.814	1.814	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	1.202	1.202	0	%100
12	M6A	Z	.694	.694	0	%100
13	M7A	X	1.202	1.202	0	%100
14	M7A	Z	.694	.694	0	%100
15	M23A	X	1.202	1.202	0	%100
16	M23A	Z	.694	.694	0	%100
17	M24	X	1.202	1.202	0	%100
18	M24	Z	.694	.694	0	%100
19	M38	X	2.136	2.136	0	%100
20	M38	Z	1.233	1.233	0	%100
21	M39A	X	4.808	4.808	0	%100
22	M39A	Z	2.776	2.776	0	%100
23	M40	X	4.808	4.808	0	%100
24	M40	Z	2.776	2.776	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	2.665	2.665	0	%100
28	M55	Z	1.538	1.538	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	3.089	3.089	0	%100
32	MP1A	Z	1.783	1.783	0	%100
33	MP2A	X	2.969	2.969	0	%100
34	MP2A	Z	1.714	1.714	0	%100
35	MP3A	X	3.089	3.089	0	%100
36	MP3A	Z	1.783	1.783	0	%100
37	MP4A	X	3.089	3.089	0	%100
38	MP4A	Z	1.783	1.783	0	%100
39	MP5A	X	3.089	3.089	0	%100
40	MP5A	Z	1.783	1.783	0	%100
41	MP1C	X	3.089	3.089	0	%100
42	MP1C	Z	1.783	1.783	0	%100
43	MP2C	X	2.969	2.969	0	%100
44	MP2C	Z	1.714	1.714	0	%100
45	MP3C	X	3.089	3.089	0	%100
46	MP3C	Z	1.783	1.783	0	%100
47	MP4C	X	3.089	3.089	0	%100
48	MP4C	Z	1.783	1.783	0	%100
49	MP5C	X	3.089	3.089	0	%100
50	MP5C	Z	1.783	1.783	0	%100
51	MP1B	X	3.089	3.089	0	%100
52	MP1B	Z	1.783	1.783	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	MP2B	X	2.969	2.969	0	%100
54	MP2B	Z	1.714	1.714	0	%100
55	MP3B	X	3.089	3.089	0	%100
56	MP3B	Z	1.783	1.783	0	%100
57	MP4B	X	3.089	3.089	0	%100
58	MP4B	Z	1.783	1.783	0	%100
59	MP5B	X	3.089	3.089	0	%100
60	MP5B	Z	1.783	1.783	0	%100
61	M52	X	.854	.854	0	%100
62	M52	Z	.493	.493	0	%100
63	M60	X	.854	.854	0	%100
64	M60	Z	.493	.493	0	%100
65	M63	X	3.416	3.416	0	%100
66	M63	Z	1.972	1.972	0	%100
67	M66	X	.815	.815	0	%100
68	M66	Z	.471	.471	0	%100
69	M67	X	3.261	3.261	0	%100
70	M67	Z	1.883	1.883	0	%100
71	M68	X	.815	.815	0	%100
72	M68	Z	.471	.471	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.411	.411	0	%100
2	M1	Z	.712	.712	0	%100
3	M2	X	.513	.513	0	%100
4	M2	Z	.888	.888	0	%100
5	M5	X	.605	.605	0	%100
6	M5	Z	1.047	1.047	0	%100
7	M6	X	2.419	2.419	0	%100
8	M6	Z	4.19	4.19	0	%100
9	M7	X	.605	.605	0	%100
10	M7	Z	1.047	1.047	0	%100
11	M6A	X	2.082	2.082	0	%100
12	M6A	Z	3.606	3.606	0	%100
13	M7A	X	2.082	2.082	0	%100
14	M7A	Z	3.606	3.606	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	1.644	1.644	0	%100
20	M38	Z	2.848	2.848	0	%100
21	M39A	X	2.082	2.082	0	%100
22	M39A	Z	3.606	3.606	0	%100
23	M40	X	2.082	2.082	0	%100
24	M40	Z	3.606	3.606	0	%100
25	M54	X	.411	.411	0	%100
26	M54	Z	.712	.712	0	%100
27	M55	X	2.051	2.051	0	%100
28	M55	Z	3.553	3.553	0	%100

Company : Maser Consulting
 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M56	X	.513	.513	0	%100
30	M56	Z	.888	.888	0	%100
31	MP1A	X	1.783	1.783	0	%100
32	MP1A	Z	3.089	3.089	0	%100
33	MP2A	X	1.714	1.714	0	%100
34	MP2A	Z	2.969	2.969	0	%100
35	MP3A	X	1.783	1.783	0	%100
36	MP3A	Z	3.089	3.089	0	%100
37	MP4A	X	1.783	1.783	0	%100
38	MP4A	Z	3.089	3.089	0	%100
39	MP5A	X	1.783	1.783	0	%100
40	MP5A	Z	3.089	3.089	0	%100
41	MP1C	X	1.783	1.783	0	%100
42	MP1C	Z	3.089	3.089	0	%100
43	MP2C	X	1.714	1.714	0	%100
44	MP2C	Z	2.969	2.969	0	%100
45	MP3C	X	1.783	1.783	0	%100
46	MP3C	Z	3.089	3.089	0	%100
47	MP4C	X	1.783	1.783	0	%100
48	MP4C	Z	3.089	3.089	0	%100
49	MP5C	X	1.783	1.783	0	%100
50	MP5C	Z	3.089	3.089	0	%100
51	MP1B	X	1.783	1.783	0	%100
52	MP1B	Z	3.089	3.089	0	%100
53	MP2B	X	1.714	1.714	0	%100
54	MP2B	Z	2.969	2.969	0	%100
55	MP3B	X	1.783	1.783	0	%100
56	MP3B	Z	3.089	3.089	0	%100
57	MP4B	X	1.783	1.783	0	%100
58	MP4B	Z	3.089	3.089	0	%100
59	MP5B	X	1.783	1.783	0	%100
60	MP5B	Z	3.089	3.089	0	%100
61	M52	X	1.479	1.479	0	%100
62	M52	Z	2.562	2.562	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	1.479	1.479	0	%100
66	M63	Z	2.562	2.562	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	1.412	1.412	0	%100
70	M67	Z	2.445	2.445	0	%100
71	M68	X	1.412	1.412	0	%100
72	M68	Z	2.445	2.445	0	%100

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

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

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.628	3.628	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.628	3.628	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	5.552	5.552	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	5.552	5.552	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	1.388	1.388	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	1.388	1.388	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	2.466	2.466	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	1.388	1.388	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	1.388	1.388	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	2.466	2.466	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	3.077	3.077	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	3.077	3.077	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	3.567	3.567	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	3.428	3.428	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	3.567	3.567	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	3.567	3.567	0	%100
39	MP5A	X	0	0	0	%100
40	MP5A	Z	3.567	3.567	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	3.567	3.567	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	3.428	3.428	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	3.567	3.567	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	3.567	3.567	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	3.567	3.567	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	3.567	3.567	0	%100
53	MP2B	X	0	0	0	%100
54	MP2B	Z	3.428	3.428	0	%100
55	MP3B	X	0	0	0	%100
56	MP3B	Z	3.567	3.567	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
57	MP4B	X	0	0	0	%100
58	MP4B	Z	3.567	3.567	0	%100
59	MP5B	X	0	0	0	%100
60	MP5B	Z	3.567	3.567	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	3.945	3.945	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	.986	.986	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	.986	.986	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	.941	.941	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	.941	.941	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	3.765	3.765	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.411	-.411	0	%100
2	M1	Z	.712	.712	0	%100
3	M2	X	-.513	-.513	0	%100
4	M2	Z	.888	.888	0	%100
5	M5	X	-.605	-.605	0	%100
6	M5	Z	1.047	1.047	0	%100
7	M6	X	-.605	-.605	0	%100
8	M6	Z	1.047	1.047	0	%100
9	M7	X	-2.419	-2.419	0	%100
10	M7	Z	4.19	4.19	0	%100
11	M6A	X	-2.082	-2.082	0	%100
12	M6A	Z	3.606	3.606	0	%100
13	M7A	X	-2.082	-2.082	0	%100
14	M7A	Z	3.606	3.606	0	%100
15	M23A	X	-2.082	-2.082	0	%100
16	M23A	Z	3.606	3.606	0	%100
17	M24	X	-2.082	-2.082	0	%100
18	M24	Z	3.606	3.606	0	%100
19	M38	X	-.411	-.411	0	%100
20	M38	Z	.712	.712	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-1.644	-1.644	0	%100
26	M54	Z	2.848	2.848	0	%100
27	M55	X	-.513	-.513	0	%100
28	M55	Z	.888	.888	0	%100
29	M56	X	-2.051	-2.051	0	%100
30	M56	Z	3.553	3.553	0	%100
31	MP1A	X	-1.783	-1.783	0	%100
32	MP1A	Z	3.089	3.089	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP2A	X	-1.714	-1.714	0	%100
34	MP2A	Z	2.969	2.969	0	%100
35	MP3A	X	-1.783	-1.783	0	%100
36	MP3A	Z	3.089	3.089	0	%100
37	MP4A	X	-1.783	-1.783	0	%100
38	MP4A	Z	3.089	3.089	0	%100
39	MP5A	X	-1.783	-1.783	0	%100
40	MP5A	Z	3.089	3.089	0	%100
41	MP1C	X	-1.783	-1.783	0	%100
42	MP1C	Z	3.089	3.089	0	%100
43	MP2C	X	-1.714	-1.714	0	%100
44	MP2C	Z	2.969	2.969	0	%100
45	MP3C	X	-1.783	-1.783	0	%100
46	MP3C	Z	3.089	3.089	0	%100
47	MP4C	X	-1.783	-1.783	0	%100
48	MP4C	Z	3.089	3.089	0	%100
49	MP5C	X	-1.783	-1.783	0	%100
50	MP5C	Z	3.089	3.089	0	%100
51	MP1B	X	-1.783	-1.783	0	%100
52	MP1B	Z	3.089	3.089	0	%100
53	MP2B	X	-1.714	-1.714	0	%100
54	MP2B	Z	2.969	2.969	0	%100
55	MP3B	X	-1.783	-1.783	0	%100
56	MP3B	Z	3.089	3.089	0	%100
57	MP4B	X	-1.783	-1.783	0	%100
58	MP4B	Z	3.089	3.089	0	%100
59	MP5B	X	-1.783	-1.783	0	%100
60	MP5B	Z	3.089	3.089	0	%100
61	M52	X	-1.479	-1.479	0	%100
62	M52	Z	2.562	2.562	0	%100
63	M60	X	-1.479	-1.479	0	%100
64	M60	Z	2.562	2.562	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	-1.412	-1.412	0	%100
68	M66	Z	2.445	2.445	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	-1.412	-1.412	0	%100
72	M68	Z	2.445	2.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.136	-2.136	0	%100
2	M1	Z	1.233	1.233	0	%100
3	M2	X	-2.665	-2.665	0	%100
4	M2	Z	1.538	1.538	0	%100
5	M5	X	-3.142	-3.142	0	%100
6	M5	Z	1.814	1.814	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
9	M7	X	-3.142	-3.142	0	%100
10	M7	Z	1.814	1.814	0	%100
11	M6A	X	-1.202	-1.202	0	%100
12	M6A	Z	.694	.694	0	%100
13	M7A	X	-1.202	-1.202	0	%100
14	M7A	Z	.694	.694	0	%100
15	M23A	X	-4.808	-4.808	0	%100
16	M23A	Z	2.776	2.776	0	%100
17	M24	X	-4.808	-4.808	0	%100
18	M24	Z	2.776	2.776	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-1.202	-1.202	0	%100
22	M39A	Z	.694	.694	0	%100
23	M40	X	-1.202	-1.202	0	%100
24	M40	Z	.694	.694	0	%100
25	M54	X	-2.136	-2.136	0	%100
26	M54	Z	1.233	1.233	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-2.665	-2.665	0	%100
30	M56	Z	1.538	1.538	0	%100
31	MP1A	X	-3.089	-3.089	0	%100
32	MP1A	Z	1.783	1.783	0	%100
33	MP2A	X	-2.969	-2.969	0	%100
34	MP2A	Z	1.714	1.714	0	%100
35	MP3A	X	-3.089	-3.089	0	%100
36	MP3A	Z	1.783	1.783	0	%100
37	MP4A	X	-3.089	-3.089	0	%100
38	MP4A	Z	1.783	1.783	0	%100
39	MP5A	X	-3.089	-3.089	0	%100
40	MP5A	Z	1.783	1.783	0	%100
41	MP1C	X	-3.089	-3.089	0	%100
42	MP1C	Z	1.783	1.783	0	%100
43	MP2C	X	-2.969	-2.969	0	%100
44	MP2C	Z	1.714	1.714	0	%100
45	MP3C	X	-3.089	-3.089	0	%100
46	MP3C	Z	1.783	1.783	0	%100
47	MP4C	X	-3.089	-3.089	0	%100
48	MP4C	Z	1.783	1.783	0	%100
49	MP5C	X	-3.089	-3.089	0	%100
50	MP5C	Z	1.783	1.783	0	%100
51	MP1B	X	-3.089	-3.089	0	%100
52	MP1B	Z	1.783	1.783	0	%100
53	MP2B	X	-2.969	-2.969	0	%100
54	MP2B	Z	1.714	1.714	0	%100
55	MP3B	X	-3.089	-3.089	0	%100
56	MP3B	Z	1.783	1.783	0	%100
57	MP4B	X	-3.089	-3.089	0	%100
58	MP4B	Z	1.783	1.783	0	%100
59	MP5B	X	-3.089	-3.089	0	%100
60	MP5B	Z	1.783	1.783	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M52	X	-.854	-.854	0	%100
62	M52	Z	.493	.493	0	%100
63	M60	X	-3.416	-3.416	0	%100
64	M60	Z	1.972	1.972	0	%100
65	M63	X	-.854	-.854	0	%100
66	M63	Z	.493	.493	0	%100
67	M66	X	-3.261	-3.261	0	%100
68	M66	Z	1.883	1.883	0	%100
69	M67	X	-.815	-.815	0	%100
70	M67	Z	.471	.471	0	%100
71	M68	X	-.815	-.815	0	%100
72	M68	Z	.471	.471	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.289	-3.289	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-4.102	-4.102	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-4.838	-4.838	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.209	-1.209	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-1.209	-1.209	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-4.164	-4.164	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-4.164	-4.164	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.822	-.822	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-4.164	-4.164	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-4.164	-4.164	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.822	-.822	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-1.026	-1.026	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-1.026	-1.026	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	-3.567	-3.567	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	-3.428	-3.428	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	-3.567	-3.567	0	%100
36	MP3A	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M7A	X	-1.202	-1.202	0	%100
14	M7A	Z	-.694	-.694	0	%100
15	M23A	X	-1.202	-1.202	0	%100
16	M23A	Z	-.694	-.694	0	%100
17	M24	X	-1.202	-1.202	0	%100
18	M24	Z	-.694	-.694	0	%100
19	M38	X	-2.136	-2.136	0	%100
20	M38	Z	-1.233	-1.233	0	%100
21	M39A	X	-4.808	-4.808	0	%100
22	M39A	Z	-2.776	-2.776	0	%100
23	M40	X	-4.808	-4.808	0	%100
24	M40	Z	-2.776	-2.776	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-2.665	-2.665	0	%100
28	M55	Z	-1.538	-1.538	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	-3.089	-3.089	0	%100
32	MP1A	Z	-1.783	-1.783	0	%100
33	MP2A	X	-2.969	-2.969	0	%100
34	MP2A	Z	-1.714	-1.714	0	%100
35	MP3A	X	-3.089	-3.089	0	%100
36	MP3A	Z	-1.783	-1.783	0	%100
37	MP4A	X	-3.089	-3.089	0	%100
38	MP4A	Z	-1.783	-1.783	0	%100
39	MP5A	X	-3.089	-3.089	0	%100
40	MP5A	Z	-1.783	-1.783	0	%100
41	MP1C	X	-3.089	-3.089	0	%100
42	MP1C	Z	-1.783	-1.783	0	%100
43	MP2C	X	-2.969	-2.969	0	%100
44	MP2C	Z	-1.714	-1.714	0	%100
45	MP3C	X	-3.089	-3.089	0	%100
46	MP3C	Z	-1.783	-1.783	0	%100
47	MP4C	X	-3.089	-3.089	0	%100
48	MP4C	Z	-1.783	-1.783	0	%100
49	MP5C	X	-3.089	-3.089	0	%100
50	MP5C	Z	-1.783	-1.783	0	%100
51	MP1B	X	-3.089	-3.089	0	%100
52	MP1B	Z	-1.783	-1.783	0	%100
53	MP2B	X	-2.969	-2.969	0	%100
54	MP2B	Z	-1.714	-1.714	0	%100
55	MP3B	X	-3.089	-3.089	0	%100
56	MP3B	Z	-1.783	-1.783	0	%100
57	MP4B	X	-3.089	-3.089	0	%100
58	MP4B	Z	-1.783	-1.783	0	%100
59	MP5B	X	-3.089	-3.089	0	%100
60	MP5B	Z	-1.783	-1.783	0	%100
61	M52	X	-.854	-.854	0	%100
62	M52	Z	-.493	-.493	0	%100
63	M60	X	-.854	-.854	0	%100
64	M60	Z	-.493	-.493	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M63	X	-3.416	-3.416	0	%100
66	M63	Z	-1.972	-1.972	0	%100
67	M66	X	-.815	-.815	0	%100
68	M66	Z	-.471	-.471	0	%100
69	M67	X	-3.261	-3.261	0	%100
70	M67	Z	-1.883	-1.883	0	%100
71	M68	X	-.815	-.815	0	%100
72	M68	Z	-.471	-.471	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.411	-.411	0	%100
2	M1	Z	-.712	-.712	0	%100
3	M2	X	-.513	-.513	0	%100
4	M2	Z	-.888	-.888	0	%100
5	M5	X	-.605	-.605	0	%100
6	M5	Z	-1.047	-1.047	0	%100
7	M6	X	-2.419	-2.419	0	%100
8	M6	Z	-4.19	-4.19	0	%100
9	M7	X	-.605	-.605	0	%100
10	M7	Z	-1.047	-1.047	0	%100
11	M6A	X	-2.082	-2.082	0	%100
12	M6A	Z	-3.606	-3.606	0	%100
13	M7A	X	-2.082	-2.082	0	%100
14	M7A	Z	-3.606	-3.606	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-1.644	-1.644	0	%100
20	M38	Z	-2.848	-2.848	0	%100
21	M39A	X	-2.082	-2.082	0	%100
22	M39A	Z	-3.606	-3.606	0	%100
23	M40	X	-2.082	-2.082	0	%100
24	M40	Z	-3.606	-3.606	0	%100
25	M54	X	-.411	-.411	0	%100
26	M54	Z	-.712	-.712	0	%100
27	M55	X	-2.051	-2.051	0	%100
28	M55	Z	-3.553	-3.553	0	%100
29	M56	X	-.513	-.513	0	%100
30	M56	Z	-.888	-.888	0	%100
31	MP1A	X	-1.783	-1.783	0	%100
32	MP1A	Z	-3.089	-3.089	0	%100
33	MP2A	X	-1.714	-1.714	0	%100
34	MP2A	Z	-2.969	-2.969	0	%100
35	MP3A	X	-1.783	-1.783	0	%100
36	MP3A	Z	-3.089	-3.089	0	%100
37	MP4A	X	-1.783	-1.783	0	%100
38	MP4A	Z	-3.089	-3.089	0	%100
39	MP5A	X	-1.783	-1.783	0	%100
40	MP5A	Z	-3.089	-3.089	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	MP1C	X	-1.783	-1.783	0	%100
42	MP1C	Z	-3.089	-3.089	0	%100
43	MP2C	X	-1.714	-1.714	0	%100
44	MP2C	Z	-2.969	-2.969	0	%100
45	MP3C	X	-1.783	-1.783	0	%100
46	MP3C	Z	-3.089	-3.089	0	%100
47	MP4C	X	-1.783	-1.783	0	%100
48	MP4C	Z	-3.089	-3.089	0	%100
49	MP5C	X	-1.783	-1.783	0	%100
50	MP5C	Z	-3.089	-3.089	0	%100
51	MP1B	X	-1.783	-1.783	0	%100
52	MP1B	Z	-3.089	-3.089	0	%100
53	MP2B	X	-1.714	-1.714	0	%100
54	MP2B	Z	-2.969	-2.969	0	%100
55	MP3B	X	-1.783	-1.783	0	%100
56	MP3B	Z	-3.089	-3.089	0	%100
57	MP4B	X	-1.783	-1.783	0	%100
58	MP4B	Z	-3.089	-3.089	0	%100
59	MP5B	X	-1.783	-1.783	0	%100
60	MP5B	Z	-3.089	-3.089	0	%100
61	M52	X	-1.479	-1.479	0	%100
62	M52	Z	-2.562	-2.562	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	-1.479	-1.479	0	%100
66	M63	Z	-2.562	-2.562	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	-1.412	-1.412	0	%100
70	M67	Z	-2.445	-2.445	0	%100
71	M68	X	-1.412	-1.412	0	%100
72	M68	Z	-2.445	-2.445	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-.868	-.868	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-.868	-.868	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-1.361	-1.361	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-1.361	-1.361	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-.34	-.34	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M24	X	0	0	0	%100
18	M24	Z	-.34	-.34	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-.584	-.584	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-.34	-.34	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-.34	-.34	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-.584	-.584	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-.76	-.76	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	-.76	-.76	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-.647	-.647	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-.62	-.62	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-.647	-.647	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.647	-.647	0	%100
39	MP5A	X	0	0	0	%100
40	MP5A	Z	-.647	-.647	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	-.647	-.647	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-.62	-.62	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	-.647	-.647	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	-.647	-.647	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	-.647	-.647	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-.647	-.647	0	%100
53	MP2B	X	0	0	0	%100
54	MP2B	Z	-.62	-.62	0	%100
55	MP3B	X	0	0	0	%100
56	MP3B	Z	-.647	-.647	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	-.647	-.647	0	%100
59	MP5B	X	0	0	0	%100
60	MP5B	Z	-.647	-.647	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	-.783	-.783	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	-.196	-.196	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-.196	-.196	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	-.231	-.231	0	%100

Company : Maser Consulting
 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	M67	X	0	0	0	%100
70	M67	Z	-.231	-.231	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	-.923	-.923	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.097	.097	0	%100
2	M1	Z	-.168	-.168	0	%100
3	M2	X	.127	.127	0	%100
4	M2	Z	-.219	-.219	0	%100
5	M5	X	.145	.145	0	%100
6	M5	Z	-.251	-.251	0	%100
7	M6	X	.145	.145	0	%100
8	M6	Z	-.251	-.251	0	%100
9	M7	X	.579	.579	0	%100
10	M7	Z	-1.002	-1.002	0	%100
11	M6A	X	.511	.511	0	%100
12	M6A	Z	-.884	-.884	0	%100
13	M7A	X	.511	.511	0	%100
14	M7A	Z	-.884	-.884	0	%100
15	M23A	X	.511	.511	0	%100
16	M23A	Z	-.884	-.884	0	%100
17	M24	X	.511	.511	0	%100
18	M24	Z	-.884	-.884	0	%100
19	M38	X	.097	.097	0	%100
20	M38	Z	-.168	-.168	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.389	.389	0	%100
26	M54	Z	-.674	-.674	0	%100
27	M55	X	.127	.127	0	%100
28	M55	Z	-.219	-.219	0	%100
29	M56	X	.507	.507	0	%100
30	M56	Z	-.878	-.878	0	%100
31	MP1A	X	.323	.323	0	%100
32	MP1A	Z	-.56	-.56	0	%100
33	MP2A	X	.31	.31	0	%100
34	MP2A	Z	-.537	-.537	0	%100
35	MP3A	X	.323	.323	0	%100
36	MP3A	Z	-.56	-.56	0	%100
37	MP4A	X	.323	.323	0	%100
38	MP4A	Z	-.56	-.56	0	%100
39	MP5A	X	.323	.323	0	%100
40	MP5A	Z	-.56	-.56	0	%100
41	MP1C	X	.323	.323	0	%100
42	MP1C	Z	-.56	-.56	0	%100
43	MP2C	X	.31	.31	0	%100
44	MP2C	Z	-.537	-.537	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	MP3C	X	.323	.323	0	%100
46	MP3C	Z	-.56	-.56	0	%100
47	MP4C	X	.323	.323	0	%100
48	MP4C	Z	-.56	-.56	0	%100
49	MP5C	X	.323	.323	0	%100
50	MP5C	Z	-.56	-.56	0	%100
51	MP1B	X	.323	.323	0	%100
52	MP1B	Z	-.56	-.56	0	%100
53	MP2B	X	.31	.31	0	%100
54	MP2B	Z	-.537	-.537	0	%100
55	MP3B	X	.323	.323	0	%100
56	MP3B	Z	-.56	-.56	0	%100
57	MP4B	X	.323	.323	0	%100
58	MP4B	Z	-.56	-.56	0	%100
59	MP5B	X	.323	.323	0	%100
60	MP5B	Z	-.56	-.56	0	%100
61	M52	X	.294	.294	0	%100
62	M52	Z	-.508	-.508	0	%100
63	M60	X	.294	.294	0	%100
64	M60	Z	-.508	-.508	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	.346	.346	0	%100
68	M66	Z	-.599	-.599	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	.346	.346	0	%100
72	M68	Z	-.599	-.599	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.505	.505	0	%100
2	M1	Z	-.292	-.292	0	%100
3	M2	X	.658	.658	0	%100
4	M2	Z	-.38	-.38	0	%100
5	M5	X	.752	.752	0	%100
6	M5	Z	-.434	-.434	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.752	.752	0	%100
10	M7	Z	-.434	-.434	0	%100
11	M6A	X	.295	.295	0	%100
12	M6A	Z	-.17	-.17	0	%100
13	M7A	X	.295	.295	0	%100
14	M7A	Z	-.17	-.17	0	%100
15	M23A	X	1.179	1.179	0	%100
16	M23A	Z	-.681	-.681	0	%100
17	M24	X	1.179	1.179	0	%100
18	M24	Z	-.681	-.681	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M39A	X	.295	.295	0	%100
22	M39A	Z	-.17	-.17	0	%100
23	M40	X	.295	.295	0	%100
24	M40	Z	-.17	-.17	0	%100
25	M54	X	.505	.505	0	%100
26	M54	Z	-.292	-.292	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.658	.658	0	%100
30	M56	Z	-.38	-.38	0	%100
31	MP1A	X	.56	.56	0	%100
32	MP1A	Z	-.323	-.323	0	%100
33	MP2A	X	.537	.537	0	%100
34	MP2A	Z	-.31	-.31	0	%100
35	MP3A	X	.56	.56	0	%100
36	MP3A	Z	-.323	-.323	0	%100
37	MP4A	X	.56	.56	0	%100
38	MP4A	Z	-.323	-.323	0	%100
39	MP5A	X	.56	.56	0	%100
40	MP5A	Z	-.323	-.323	0	%100
41	MP1C	X	.56	.56	0	%100
42	MP1C	Z	-.323	-.323	0	%100
43	MP2C	X	.537	.537	0	%100
44	MP2C	Z	-.31	-.31	0	%100
45	MP3C	X	.56	.56	0	%100
46	MP3C	Z	-.323	-.323	0	%100
47	MP4C	X	.56	.56	0	%100
48	MP4C	Z	-.323	-.323	0	%100
49	MP5C	X	.56	.56	0	%100
50	MP5C	Z	-.323	-.323	0	%100
51	MP1B	X	.56	.56	0	%100
52	MP1B	Z	-.323	-.323	0	%100
53	MP2B	X	.537	.537	0	%100
54	MP2B	Z	-.31	-.31	0	%100
55	MP3B	X	.56	.56	0	%100
56	MP3B	Z	-.323	-.323	0	%100
57	MP4B	X	.56	.56	0	%100
58	MP4B	Z	-.323	-.323	0	%100
59	MP5B	X	.56	.56	0	%100
60	MP5B	Z	-.323	-.323	0	%100
61	M52	X	.169	.169	0	%100
62	M52	Z	-.098	-.098	0	%100
63	M60	X	.678	.678	0	%100
64	M60	Z	-.391	-.391	0	%100
65	M63	X	.169	.169	0	%100
66	M63	Z	-.098	-.098	0	%100
67	M66	X	.799	.799	0	%100
68	M66	Z	-.461	-.461	0	%100
69	M67	X	.2	.2	0	%100
70	M67	Z	-.115	-.115	0	%100
71	M68	X	.2	.2	0	%100
72	M68	Z	-.115	-.115	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.778	.778	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	1.014	1.014	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	1.157	1.157	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.289	.289	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.289	.289	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	1.021	1.021	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	1.021	1.021	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.195	.195	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	1.021	1.021	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	1.021	1.021	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.195	.195	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.253	.253	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.253	.253	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	.647	.647	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	.62	.62	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	.647	.647	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	.647	.647	0	%100
38	MP4A	Z	0	0	0	%100
39	MP5A	X	.647	.647	0	%100
40	MP5A	Z	0	0	0	%100
41	MP1C	X	.647	.647	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	.62	.62	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	.647	.647	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	.647	.647	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	.647	.647	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	.647	.647	0	%100
52	MP1B	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	MP2B	X	.62	.62	0	%100
54	MP2B	Z	0	0	0	%100
55	MP3B	X	.647	.647	0	%100
56	MP3B	Z	0	0	0	%100
57	MP4B	X	.647	.647	0	%100
58	MP4B	Z	0	0	0	%100
59	MP5B	X	.647	.647	0	%100
60	MP5B	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M60	X	.587	.587	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	.587	.587	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	.692	.692	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	.692	.692	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.505	.505	0	%100
2	M1	Z	.292	.292	0	%100
3	M2	X	.658	.658	0	%100
4	M2	Z	.38	.38	0	%100
5	M5	X	.752	.752	0	%100
6	M5	Z	.434	.434	0	%100
7	M6	X	.752	.752	0	%100
8	M6	Z	.434	.434	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	.295	.295	0	%100
12	M6A	Z	.17	.17	0	%100
13	M7A	X	.295	.295	0	%100
14	M7A	Z	.17	.17	0	%100
15	M23A	X	.295	.295	0	%100
16	M23A	Z	.17	.17	0	%100
17	M24	X	.295	.295	0	%100
18	M24	Z	.17	.17	0	%100
19	M38	X	.505	.505	0	%100
20	M38	Z	.292	.292	0	%100
21	M39A	X	1.179	1.179	0	%100
22	M39A	Z	.681	.681	0	%100
23	M40	X	1.179	1.179	0	%100
24	M40	Z	.681	.681	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.658	.658	0	%100
28	M55	Z	.38	.38	0	%100

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 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	.56	.56	0	%100
32	MP1A	Z	.323	.323	0	%100
33	MP2A	X	.537	.537	0	%100
34	MP2A	Z	.31	.31	0	%100
35	MP3A	X	.56	.56	0	%100
36	MP3A	Z	.323	.323	0	%100
37	MP4A	X	.56	.56	0	%100
38	MP4A	Z	.323	.323	0	%100
39	MP5A	X	.56	.56	0	%100
40	MP5A	Z	.323	.323	0	%100
41	MP1C	X	.56	.56	0	%100
42	MP1C	Z	.323	.323	0	%100
43	MP2C	X	.537	.537	0	%100
44	MP2C	Z	.31	.31	0	%100
45	MP3C	X	.56	.56	0	%100
46	MP3C	Z	.323	.323	0	%100
47	MP4C	X	.56	.56	0	%100
48	MP4C	Z	.323	.323	0	%100
49	MP5C	X	.56	.56	0	%100
50	MP5C	Z	.323	.323	0	%100
51	MP1B	X	.56	.56	0	%100
52	MP1B	Z	.323	.323	0	%100
53	MP2B	X	.537	.537	0	%100
54	MP2B	Z	.31	.31	0	%100
55	MP3B	X	.56	.56	0	%100
56	MP3B	Z	.323	.323	0	%100
57	MP4B	X	.56	.56	0	%100
58	MP4B	Z	.323	.323	0	%100
59	MP5B	X	.56	.56	0	%100
60	MP5B	Z	.323	.323	0	%100
61	M52	X	.169	.169	0	%100
62	M52	Z	.098	.098	0	%100
63	M60	X	.169	.169	0	%100
64	M60	Z	.098	.098	0	%100
65	M63	X	.678	.678	0	%100
66	M63	Z	.391	.391	0	%100
67	M66	X	.2	.2	0	%100
68	M66	Z	.115	.115	0	%100
69	M67	X	.799	.799	0	%100
70	M67	Z	.461	.461	0	%100
71	M68	X	.2	.2	0	%100
72	M68	Z	.115	.115	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.097	.097	0	%100
2	M1	Z	.168	.168	0	%100
3	M2	X	.127	.127	0	%100
4	M2	Z	.219	.219	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	M5	X	.145	.145	0	%100
6	M5	Z	.251	.251	0	%100
7	M6	X	.579	.579	0	%100
8	M6	Z	1.002	1.002	0	%100
9	M7	X	.145	.145	0	%100
10	M7	Z	.251	.251	0	%100
11	M6A	X	.511	.511	0	%100
12	M6A	Z	.884	.884	0	%100
13	M7A	X	.511	.511	0	%100
14	M7A	Z	.884	.884	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.389	.389	0	%100
20	M38	Z	.674	.674	0	%100
21	M39A	X	.511	.511	0	%100
22	M39A	Z	.884	.884	0	%100
23	M40	X	.511	.511	0	%100
24	M40	Z	.884	.884	0	%100
25	M54	X	.097	.097	0	%100
26	M54	Z	.168	.168	0	%100
27	M55	X	.507	.507	0	%100
28	M55	Z	.878	.878	0	%100
29	M56	X	.127	.127	0	%100
30	M56	Z	.219	.219	0	%100
31	MP1A	X	.323	.323	0	%100
32	MP1A	Z	.56	.56	0	%100
33	MP2A	X	.31	.31	0	%100
34	MP2A	Z	.537	.537	0	%100
35	MP3A	X	.323	.323	0	%100
36	MP3A	Z	.56	.56	0	%100
37	MP4A	X	.323	.323	0	%100
38	MP4A	Z	.56	.56	0	%100
39	MP5A	X	.323	.323	0	%100
40	MP5A	Z	.56	.56	0	%100
41	MP1C	X	.323	.323	0	%100
42	MP1C	Z	.56	.56	0	%100
43	MP2C	X	.31	.31	0	%100
44	MP2C	Z	.537	.537	0	%100
45	MP3C	X	.323	.323	0	%100
46	MP3C	Z	.56	.56	0	%100
47	MP4C	X	.323	.323	0	%100
48	MP4C	Z	.56	.56	0	%100
49	MP5C	X	.323	.323	0	%100
50	MP5C	Z	.56	.56	0	%100
51	MP1B	X	.323	.323	0	%100
52	MP1B	Z	.56	.56	0	%100
53	MP2B	X	.31	.31	0	%100
54	MP2B	Z	.537	.537	0	%100
55	MP3B	X	.323	.323	0	%100
56	MP3B	Z	.56	.56	0	%100

Company : Maser Consulting
 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
57	MP4B	X	.323	.323	0	%100
58	MP4B	Z	.56	.56	0	%100
59	MP5B	X	.323	.323	0	%100
60	MP5B	Z	.56	.56	0	%100
61	M52	X	.294	.294	0	%100
62	M52	Z	.508	.508	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	.294	.294	0	%100
66	M63	Z	.508	.508	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	.346	.346	0	%100
70	M67	Z	.599	.599	0	%100
71	M68	X	.346	.346	0	%100
72	M68	Z	.599	.599	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.868	.868	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.868	.868	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	1.361	1.361	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	1.361	1.361	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	.34	.34	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	.34	.34	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	.584	.584	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	.34	.34	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	.34	.34	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	.584	.584	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	.76	.76	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	.76	.76	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	.647	.647	0	%100

Company : Maser Consulting
 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP2A	X	0	0	0	%100
34	MP2A	Z	.62	.62	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	.647	.647	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.647	.647	0	%100
39	MP5A	X	0	0	0	%100
40	MP5A	Z	.647	.647	0	%100
41	MP1C	X	0	0	0	%100
42	MP1C	Z	.647	.647	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	.62	.62	0	%100
45	MP3C	X	0	0	0	%100
46	MP3C	Z	.647	.647	0	%100
47	MP4C	X	0	0	0	%100
48	MP4C	Z	.647	.647	0	%100
49	MP5C	X	0	0	0	%100
50	MP5C	Z	.647	.647	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	.647	.647	0	%100
53	MP2B	X	0	0	0	%100
54	MP2B	Z	.62	.62	0	%100
55	MP3B	X	0	0	0	%100
56	MP3B	Z	.647	.647	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	.647	.647	0	%100
59	MP5B	X	0	0	0	%100
60	MP5B	Z	.647	.647	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	.783	.783	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	.196	.196	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	.196	.196	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	.231	.231	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	.231	.231	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	.923	.923	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.097	-.097	0	%100
2	M1	Z	.168	.168	0	%100
3	M2	X	-.127	-.127	0	%100
4	M2	Z	.219	.219	0	%100
5	M5	X	-.145	-.145	0	%100
6	M5	Z	.251	.251	0	%100
7	M6	X	-.145	-.145	0	%100
8	M6	Z	.251	.251	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
9	M7	X	-.579	-.579	0	%100
10	M7	Z	1.002	1.002	0	%100
11	M6A	X	-.511	-.511	0	%100
12	M6A	Z	.884	.884	0	%100
13	M7A	X	-.511	-.511	0	%100
14	M7A	Z	.884	.884	0	%100
15	M23A	X	-.511	-.511	0	%100
16	M23A	Z	.884	.884	0	%100
17	M24	X	-.511	-.511	0	%100
18	M24	Z	.884	.884	0	%100
19	M38	X	-.097	-.097	0	%100
20	M38	Z	.168	.168	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.389	-.389	0	%100
26	M54	Z	.674	.674	0	%100
27	M55	X	-.127	-.127	0	%100
28	M55	Z	.219	.219	0	%100
29	M56	X	-.507	-.507	0	%100
30	M56	Z	.878	.878	0	%100
31	MP1A	X	-.323	-.323	0	%100
32	MP1A	Z	.56	.56	0	%100
33	MP2A	X	-.31	-.31	0	%100
34	MP2A	Z	.537	.537	0	%100
35	MP3A	X	-.323	-.323	0	%100
36	MP3A	Z	.56	.56	0	%100
37	MP4A	X	-.323	-.323	0	%100
38	MP4A	Z	.56	.56	0	%100
39	MP5A	X	-.323	-.323	0	%100
40	MP5A	Z	.56	.56	0	%100
41	MP1C	X	-.323	-.323	0	%100
42	MP1C	Z	.56	.56	0	%100
43	MP2C	X	-.31	-.31	0	%100
44	MP2C	Z	.537	.537	0	%100
45	MP3C	X	-.323	-.323	0	%100
46	MP3C	Z	.56	.56	0	%100
47	MP4C	X	-.323	-.323	0	%100
48	MP4C	Z	.56	.56	0	%100
49	MP5C	X	-.323	-.323	0	%100
50	MP5C	Z	.56	.56	0	%100
51	MP1B	X	-.323	-.323	0	%100
52	MP1B	Z	.56	.56	0	%100
53	MP2B	X	-.31	-.31	0	%100
54	MP2B	Z	.537	.537	0	%100
55	MP3B	X	-.323	-.323	0	%100
56	MP3B	Z	.56	.56	0	%100
57	MP4B	X	-.323	-.323	0	%100
58	MP4B	Z	.56	.56	0	%100
59	MP5B	X	-.323	-.323	0	%100
60	MP5B	Z	.56	.56	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M52	X	-.294	-.294	0	%100
62	M52	Z	.508	.508	0	%100
63	M60	X	-.294	-.294	0	%100
64	M60	Z	.508	.508	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	-.346	-.346	0	%100
68	M66	Z	.599	.599	0	%100
69	M67	X	0	0	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	-.346	-.346	0	%100
72	M68	Z	.599	.599	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.505	-.505	0	%100
2	M1	Z	.292	.292	0	%100
3	M2	X	-.658	-.658	0	%100
4	M2	Z	.38	.38	0	%100
5	M5	X	-.752	-.752	0	%100
6	M5	Z	.434	.434	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.752	-.752	0	%100
10	M7	Z	.434	.434	0	%100
11	M6A	X	-.295	-.295	0	%100
12	M6A	Z	.17	.17	0	%100
13	M7A	X	-.295	-.295	0	%100
14	M7A	Z	.17	.17	0	%100
15	M23A	X	-1.179	-1.179	0	%100
16	M23A	Z	.681	.681	0	%100
17	M24	X	-1.179	-1.179	0	%100
18	M24	Z	.681	.681	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-.295	-.295	0	%100
22	M39A	Z	.17	.17	0	%100
23	M40	X	-.295	-.295	0	%100
24	M40	Z	.17	.17	0	%100
25	M54	X	-.505	-.505	0	%100
26	M54	Z	.292	.292	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.658	-.658	0	%100
30	M56	Z	.38	.38	0	%100
31	MP1A	X	-.56	-.56	0	%100
32	MP1A	Z	.323	.323	0	%100
33	MP2A	X	-.537	-.537	0	%100
34	MP2A	Z	.31	.31	0	%100
35	MP3A	X	-.56	-.56	0	%100
36	MP3A	Z	.323	.323	0	%100

Company : Maser Consulting
 Designer : CJG
 Job Number : Project No. 10037892
 Model Name : 468244-VZW_MT_LO_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP4A	X	-.56	-.56	0	%100
38	MP4A	Z	.323	.323	0	%100
39	MP5A	X	-.56	-.56	0	%100
40	MP5A	Z	.323	.323	0	%100
41	MP1C	X	-.56	-.56	0	%100
42	MP1C	Z	.323	.323	0	%100
43	MP2C	X	-.537	-.537	0	%100
44	MP2C	Z	.31	.31	0	%100
45	MP3C	X	-.56	-.56	0	%100
46	MP3C	Z	.323	.323	0	%100
47	MP4C	X	-.56	-.56	0	%100
48	MP4C	Z	.323	.323	0	%100
49	MP5C	X	-.56	-.56	0	%100
50	MP5C	Z	.323	.323	0	%100
51	MP1B	X	-.56	-.56	0	%100
52	MP1B	Z	.323	.323	0	%100
53	MP2B	X	-.537	-.537	0	%100
54	MP2B	Z	.31	.31	0	%100
55	MP3B	X	-.56	-.56	0	%100
56	MP3B	Z	.323	.323	0	%100
57	MP4B	X	-.56	-.56	0	%100
58	MP4B	Z	.323	.323	0	%100
59	MP5B	X	-.56	-.56	0	%100
60	MP5B	Z	.323	.323	0	%100
61	M52	X	-.169	-.169	0	%100
62	M52	Z	.098	.098	0	%100
63	M60	X	-.678	-.678	0	%100
64	M60	Z	.391	.391	0	%100
65	M63	X	-.169	-.169	0	%100
66	M63	Z	.098	.098	0	%100
67	M66	X	-.799	-.799	0	%100
68	M66	Z	.461	.461	0	%100
69	M67	X	-.2	-.2	0	%100
70	M67	Z	.115	.115	0	%100
71	M68	X	-.2	-.2	0	%100
72	M68	Z	.115	.115	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.778	-.778	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-1.014	-1.014	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-1.157	-1.157	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.289	-.289	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.289	-.289	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-1.021	-1.021	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-1.021	-1.021	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.195	-.195	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-1.021	-1.021	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-1.021	-1.021	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.195	-.195	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.253	-.253	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.253	-.253	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	-.647	-.647	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	-.62	-.62	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	-.647	-.647	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	-.647	-.647	0	%100
38	MP4A	Z	0	0	0	%100
39	MP5A	X	-.647	-.647	0	%100
40	MP5A	Z	0	0	0	%100
41	MP1C	X	-.647	-.647	0	%100
42	MP1C	Z	0	0	0	%100
43	MP2C	X	-.62	-.62	0	%100
44	MP2C	Z	0	0	0	%100
45	MP3C	X	-.647	-.647	0	%100
46	MP3C	Z	0	0	0	%100
47	MP4C	X	-.647	-.647	0	%100
48	MP4C	Z	0	0	0	%100
49	MP5C	X	-.647	-.647	0	%100
50	MP5C	Z	0	0	0	%100
51	MP1B	X	-.647	-.647	0	%100
52	MP1B	Z	0	0	0	%100
53	MP2B	X	-.62	-.62	0	%100
54	MP2B	Z	0	0	0	%100
55	MP3B	X	-.647	-.647	0	%100
56	MP3B	Z	0	0	0	%100
57	MP4B	X	-.647	-.647	0	%100
58	MP4B	Z	0	0	0	%100
59	MP5B	X	-.647	-.647	0	%100
60	MP5B	Z	0	0	0	%100
61	M52	X	0	0	0	%100
62	M52	Z	0	0	0	%100
63	M60	X	-.587	-.587	0	%100
64	M60	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M63	X	-.587	-.587	0	%100
66	M63	Z	0	0	0	%100
67	M66	X	-.692	-.692	0	%100
68	M66	Z	0	0	0	%100
69	M67	X	-.692	-.692	0	%100
70	M67	Z	0	0	0	%100
71	M68	X	0	0	0	%100
72	M68	Z	0	0	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.505	-.505	0	%100
2	M1	Z	-.292	-.292	0	%100
3	M2	X	-.658	-.658	0	%100
4	M2	Z	-.38	-.38	0	%100
5	M5	X	-.752	-.752	0	%100
6	M5	Z	-.434	-.434	0	%100
7	M6	X	-.752	-.752	0	%100
8	M6	Z	-.434	-.434	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-.295	-.295	0	%100
12	M6A	Z	-.17	-.17	0	%100
13	M7A	X	-.295	-.295	0	%100
14	M7A	Z	-.17	-.17	0	%100
15	M23A	X	-.295	-.295	0	%100
16	M23A	Z	-.17	-.17	0	%100
17	M24	X	-.295	-.295	0	%100
18	M24	Z	-.17	-.17	0	%100
19	M38	X	-.505	-.505	0	%100
20	M38	Z	-.292	-.292	0	%100
21	M39A	X	-1.179	-1.179	0	%100
22	M39A	Z	-.681	-.681	0	%100
23	M40	X	-1.179	-1.179	0	%100
24	M40	Z	-.681	-.681	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.658	-.658	0	%100
28	M55	Z	-.38	-.38	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP1A	X	-.56	-.56	0	%100
32	MP1A	Z	-.323	-.323	0	%100
33	MP2A	X	-.537	-.537	0	%100
34	MP2A	Z	-.31	-.31	0	%100
35	MP3A	X	-.56	-.56	0	%100
36	MP3A	Z	-.323	-.323	0	%100
37	MP4A	X	-.56	-.56	0	%100
38	MP4A	Z	-.323	-.323	0	%100
39	MP5A	X	-.56	-.56	0	%100
40	MP5A	Z	-.323	-.323	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	MP1C	X	-.56	-.56	0	%100
42	MP1C	Z	-.323	-.323	0	%100
43	MP2C	X	-.537	-.537	0	%100
44	MP2C	Z	-.31	-.31	0	%100
45	MP3C	X	-.56	-.56	0	%100
46	MP3C	Z	-.323	-.323	0	%100
47	MP4C	X	-.56	-.56	0	%100
48	MP4C	Z	-.323	-.323	0	%100
49	MP5C	X	-.56	-.56	0	%100
50	MP5C	Z	-.323	-.323	0	%100
51	MP1B	X	-.56	-.56	0	%100
52	MP1B	Z	-.323	-.323	0	%100
53	MP2B	X	-.537	-.537	0	%100
54	MP2B	Z	-.31	-.31	0	%100
55	MP3B	X	-.56	-.56	0	%100
56	MP3B	Z	-.323	-.323	0	%100
57	MP4B	X	-.56	-.56	0	%100
58	MP4B	Z	-.323	-.323	0	%100
59	MP5B	X	-.56	-.56	0	%100
60	MP5B	Z	-.323	-.323	0	%100
61	M52	X	-.169	-.169	0	%100
62	M52	Z	-.098	-.098	0	%100
63	M60	X	-.169	-.169	0	%100
64	M60	Z	-.098	-.098	0	%100
65	M63	X	-.678	-.678	0	%100
66	M63	Z	-.391	-.391	0	%100
67	M66	X	-.2	-.2	0	%100
68	M66	Z	-.115	-.115	0	%100
69	M67	X	-.799	-.799	0	%100
70	M67	Z	-.461	-.461	0	%100
71	M68	X	-.2	-.2	0	%100
72	M68	Z	-.115	-.115	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.097	-.097	0	%100
2	M1	Z	-.168	-.168	0	%100
3	M2	X	-.127	-.127	0	%100
4	M2	Z	-.219	-.219	0	%100
5	M5	X	-.145	-.145	0	%100
6	M5	Z	-.251	-.251	0	%100
7	M6	X	-.579	-.579	0	%100
8	M6	Z	-1.002	-1.002	0	%100
9	M7	X	-.145	-.145	0	%100
10	M7	Z	-.251	-.251	0	%100
11	M6A	X	-.511	-.511	0	%100
12	M6A	Z	-.884	-.884	0	%100
13	M7A	X	-.511	-.511	0	%100
14	M7A	Z	-.884	-.884	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.389	-.389	0	%100
20	M38	Z	-.674	-.674	0	%100
21	M39A	X	-.511	-.511	0	%100
22	M39A	Z	-.884	-.884	0	%100
23	M40	X	-.511	-.511	0	%100
24	M40	Z	-.884	-.884	0	%100
25	M54	X	-.097	-.097	0	%100
26	M54	Z	-.168	-.168	0	%100
27	M55	X	-.507	-.507	0	%100
28	M55	Z	-.878	-.878	0	%100
29	M56	X	-.127	-.127	0	%100
30	M56	Z	-.219	-.219	0	%100
31	MP1A	X	-.323	-.323	0	%100
32	MP1A	Z	-.56	-.56	0	%100
33	MP2A	X	-.31	-.31	0	%100
34	MP2A	Z	-.537	-.537	0	%100
35	MP3A	X	-.323	-.323	0	%100
36	MP3A	Z	-.56	-.56	0	%100
37	MP4A	X	-.323	-.323	0	%100
38	MP4A	Z	-.56	-.56	0	%100
39	MP5A	X	-.323	-.323	0	%100
40	MP5A	Z	-.56	-.56	0	%100
41	MP1C	X	-.323	-.323	0	%100
42	MP1C	Z	-.56	-.56	0	%100
43	MP2C	X	-.31	-.31	0	%100
44	MP2C	Z	-.537	-.537	0	%100
45	MP3C	X	-.323	-.323	0	%100
46	MP3C	Z	-.56	-.56	0	%100
47	MP4C	X	-.323	-.323	0	%100
48	MP4C	Z	-.56	-.56	0	%100
49	MP5C	X	-.323	-.323	0	%100
50	MP5C	Z	-.56	-.56	0	%100
51	MP1B	X	-.323	-.323	0	%100
52	MP1B	Z	-.56	-.56	0	%100
53	MP2B	X	-.31	-.31	0	%100
54	MP2B	Z	-.537	-.537	0	%100
55	MP3B	X	-.323	-.323	0	%100
56	MP3B	Z	-.56	-.56	0	%100
57	MP4B	X	-.323	-.323	0	%100
58	MP4B	Z	-.56	-.56	0	%100
59	MP5B	X	-.323	-.323	0	%100
60	MP5B	Z	-.56	-.56	0	%100
61	M52	X	-.294	-.294	0	%100
62	M52	Z	-.508	-.508	0	%100
63	M60	X	0	0	0	%100
64	M60	Z	0	0	0	%100
65	M63	X	-.294	-.294	0	%100
66	M63	Z	-.508	-.508	0	%100
67	M66	X	0	0	0	%100
68	M66	Z	0	0	0	%100

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	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
69	M67	X	-.346	-.346	0	%100
70	M67	Z	-.599	-.599	0	%100
71	M68	X	-.346	-.346	0	%100
72	M68	Z	-.599	-.599	0	%100

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-6.489	-5.995	.8	4
2	M7	Y	-6.489	-5.995	.8	4
3	M6A	Y	-5.618	-5.382	0	1.858
4	M6A	Y	-5.382	-4.547	1.858	3.717
5	M6A	Y	-4.547	-3.915	3.717	5.575
6	M6A	Y	-3.915	-4.086	5.575	7.433
7	M7A	Y	-.915	-2.89	0	2.052
8	M7A	Y	-2.89	-5.784	2.052	4.103
9	M7A	Y	-5.784	-6.469	4.103	6.155
10	M7A	Y	-6.469	-5.168	6.155	8.207
11	M7A	Y	-5.168	-4.465	8.207	10.258
12	M7A	Y	-4.465	-2.871	10.258	12.31
13	M7A	Y	-2.871	-.933	12.31	14.362
14	M5	Y	-6.705	-5.779	.8	4
15	M23A	Y	-5.618	-5.382	0	1.858
16	M23A	Y	-5.382	-4.547	1.858	3.717
17	M23A	Y	-4.547	-3.915	3.717	5.575
18	M23A	Y	-3.915	-4.086	5.575	7.433
19	M24	Y	-.915	-2.89	0	2.052
20	M24	Y	-2.89	-5.784	2.052	4.103
21	M24	Y	-5.784	-6.469	4.103	6.155
22	M24	Y	-6.469	-5.168	6.155	8.207
23	M24	Y	-5.168	-4.465	8.207	10.258
24	M24	Y	-4.465	-2.871	10.258	12.31
25	M24	Y	-2.871	-.933	12.31	14.362
26	M39A	Y	-5.618	-5.382	0	1.858
27	M39A	Y	-5.382	-4.547	1.858	3.717
28	M39A	Y	-4.547	-3.915	3.717	5.575
29	M39A	Y	-3.915	-4.086	5.575	7.433
30	M40	Y	-.915	-2.89	0	2.052
31	M40	Y	-2.89	-5.784	2.052	4.103
32	M40	Y	-5.784	-6.469	4.103	6.155
33	M40	Y	-6.469	-5.168	6.155	8.207
34	M40	Y	-5.168	-4.465	8.207	10.258
35	M40	Y	-4.465	-2.871	10.258	12.31
36	M40	Y	-2.871	-.933	12.31	14.362

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-12.638	-11.676	.8	4
2	M7	Y	-12.638	-11.676	.8	4
3	M6A	Y	-10.942	-10.482	0	1.858
4	M6A	Y	-10.482	-8.856	1.858	3.717
5	M6A	Y	-8.856	-7.626	3.717	5.575

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	M6A	Y	-7.626	-7.958	5.575	7.433
7	M7A	Y	-1.782	-5.628	0	2.052
8	M7A	Y	-5.628	-11.265	2.052	4.103
9	M7A	Y	-11.265	-12.6	4.103	6.155
10	M7A	Y	-12.6	-10.067	6.155	8.207
11	M7A	Y	-10.067	-8.695	8.207	10.258
12	M7A	Y	-8.695	-5.592	10.258	12.31
13	M7A	Y	-5.592	-1.818	12.31	14.362
14	M5	Y	-13.059	-11.256	.8	4
15	M23A	Y	-10.942	-10.482	0	1.858
16	M23A	Y	-10.482	-8.856	1.858	3.717
17	M23A	Y	-8.856	-7.626	3.717	5.575
18	M23A	Y	-7.626	-7.958	5.575	7.433
19	M24	Y	-1.782	-5.628	0	2.052
20	M24	Y	-5.628	-11.265	2.052	4.103
21	M24	Y	-11.265	-12.6	4.103	6.155
22	M24	Y	-12.6	-10.067	6.155	8.207
23	M24	Y	-10.067	-8.695	8.207	10.258
24	M24	Y	-8.695	-5.592	10.258	12.31
25	M24	Y	-5.592	-1.818	12.31	14.362
26	M39A	Y	-10.942	-10.482	0	1.858
27	M39A	Y	-10.482	-8.856	1.858	3.717
28	M39A	Y	-8.856	-7.626	3.717	5.575
29	M39A	Y	-7.626	-7.958	5.575	7.433
30	M40	Y	-1.782	-5.628	0	2.052
31	M40	Y	-5.628	-11.265	2.052	4.103
32	M40	Y	-11.265	-12.6	4.103	6.155
33	M40	Y	-12.6	-10.067	6.155	8.207
34	M40	Y	-10.067	-8.695	8.207	10.258
35	M40	Y	-8.695	-5.592	10.258	12.31
36	M40	Y	-5.592	-1.818	12.31	14.362

Member Area Loads (BLC 39 : Structure D)

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

Member Area Loads (BLC 40 : Structure Di)

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N2	max	2296.944	11	2197.167	19	1324.874	1	-1.429	1	1.985	11	1.137	40
2		min	-2300.177	5	671.451	1	-1180.331	7	-5.886	19	-1.986	5	-.942	10

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
3	N77	max	1564.995	10	2188.845	15	2232.225	1	3.029	13	1.967	7	5.119	16
4		min	-1439.379	4	662.07	9	-2308.514	7	.282	7	-1.969	1	1.078	10
5	N109	max	1657.542	10	2180.167	23	1876.927	2	3.016	13	2.066	3	-1.132	4
6		min	-1778.566	4	558.098	41	-1943.141	8	.215	7	-2.063	9	-5.1	22
7	Totals:	max	5346.188	10	6360.1	19	5335.169	1						
8		min	-5346.189	4	2892.976	1	-5335.165	7						

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M1	HSS4X4X5	.320	0	17	.106	0	z	4	168928.1...	169740	19.285	19.285	1...	H1-1b
2	M2	HSS4.5X4.5X3	.222	0	19	.091	0	y	40	119784.8...	121302	16.25	16.25	1...	H1-1b
3	M5	LL3x3x4x0	.072	0	9	.007	4	z	10	76288.155	93312	6.48	4.357	2...	H1-1b
4	M6	LL3x3x4x0	.068	0	5	.007	4	z	6	76288.155	93312	6.48	4.357	2...	H1-1b
5	M7	LL3x3x4x0	.102	0	43	.015	4	y	41	76288.155	93312	6.48	4.357	1...	H1-1b
6	M6A	L3X3X4	.332	3.717	40	.015	3.717	z	40	13991.953	46656	1.688	3.19	1...	H2-1
7	M7A	L3X3X4	.752	7.181	5	.110	7.181	z	20	3748.406	46656	1.688	2.742	1...	H2-1
8	M23A	L3X3X4	.325	3.717	42	.015	3.717	z	41	13991.953	46656	1.688	3.191	1...	H2-1
9	M24	L3X3X4	.781	7.181	38	.110	7.181	z	16	3748.406	46656	1.688	2.782	1...	H2-1
10	M38	HSS4X4X5	.319	0	13	.104	0	z	6	168928.1...	169740	19.285	19.285	1...	H1-1b
11	M39A	L3X3X4	.313	3.717	21	.013	3.717	z	20	13991.953	46656	1.688	3.164	1...	H2-1
12	M40	L3X3X4	.746	7.181	9	.109	7.181	z	24	3748.406	46656	1.688	2.737	1...	H2-1
13	M54	HSS4X4X5	.318	0	21	.108	0	z	8	168928.1...	169740	19.285	19.285	1...	H1-1b
14	M55	HSS4.5X4.5X3	.221	0	15	.088	0	y	41	119784.8...	121302	16.25	16.25	1...	H1-1b
15	M56	HSS4.5X4.5X3	.220	0	23	.054	0	y	20	119784.8...	121302	16.25	16.25	1...	H1-1b
16	MP1A	PIPE 2.0	.258	.521	44	.086	2.344		8	23808.54	32130	1.872	1.872	2...	H1-1b
17	MP2A	PIPE 2.0	.306	3	45	.094	.516		7	25203.832	32130	1.872	1.872	2...	H1-1b
18	MP3A	PIPE 2.0	.503	3.281	12	.107	3.281		8	17855.085	32130	1.872	1.872	1...	H1-1b
19	MP4A	PIPE 2.0	.248	.521	18	.084	.521		7	23808.54	32130	1.872	1.872	2...	H1-1b
20	MP5A	PIPE 2.0	.211	2.969	6	.069	2.969		6	23808.54	32130	1.872	1.872	2...	H1-1b
21	MP1C	PIPE 2.0	.232	2.969	40	.085	2.344		4	23808.54	32130	1.872	1.872	2...	H1-1b
22	MP2C	PIPE 2.0	.254	.516	5	.093	.516		3	25203.832	32130	1.872	1.872	2...	H1-1b
23	MP3C	PIPE 2.0	.504	3.281	8	.107	3.281		4	17855.085	32130	1.872	1.872	1...	H1-1b
24	MP4C	PIPE 2.0	.272	.521	38	.085	.521		3	23808.54	32130	1.872	1.872	2...	H1-1b
25	MP5C	PIPE 2.0	.275	2.969	37	.069	2.969		2	23808.54	32130	1.872	1.872	2...	H1-1b
26	MP1B	PIPE 2.0	.211	2.969	12	.083	2.344		12	23808.54	32130	1.872	1.872	2...	H1-1b
27	MP2B	PIPE 2.0	.254	.516	1	.092	.516		11	25203.832	32130	1.872	1.872	2...	H1-1b
28	MP3B	PIPE 2.0	.494	3.281	4	.107	3.281		12	17855.085	32130	1.872	1.872	1...	H1-1b
29	MP4B	PIPE 2.0	.244	.521	21	.081	.521		11	23808.54	32130	1.872	1.872	2...	H1-1b
30	MP5B	PIPE 2.0	.211	2.969	10	.066	2.969		10	23808.54	32130	1.872	1.872	1...	H1-1b
31	M52	PIPE 2.5	.200	6.609	18	.073	6.609		7	12481.817	50715	3.596	3.596	1...	H1-1b
32	M60	PIPE 2.5	.198	6.609	14	.074	6.609		3	12481.817	50715	3.596	3.596	1...	H1-1b
33	M63	PIPE 2.5	.197	6.609	22	.070	6.609		11	12481.817	50715	3.596	3.596	1...	H1-1b
34	M66	L3X3X4	.205	1.498	11	.023	0	z	6	44394.162	46656	1.688	3.756	1...	H2-1
35	M67	L3X3X4	.212	1.498	7	.023	0	z	2	44394.162	46656	1.688	3.756	1...	H2-1
36	M68	L3X3X4	.213	1.498	3	.022	0	z	10	44394.162	46656	1.688	3.756	1...	H2-1



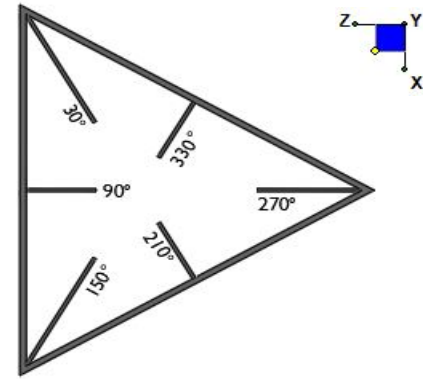
Client:	Verizon Wireless	Date:	5/4/2021
Site Name:	Libson CT		
Project No.	21777104A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N2	90
N77	210
N109	330



TYPICAL PLATFORM

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

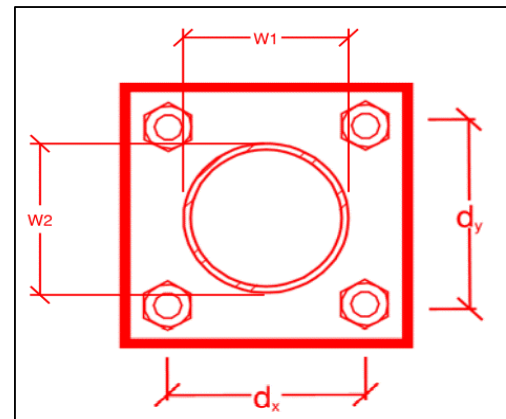
Phi*Rn (kip/in):

Required Weld Strength (kip/in):

Weld Capacity:

Rect
10
12
4
4
36
0.5
3
4.18
3.32

79.5%



Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 Maser Consulting Connecticut.
 - 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 Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

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

Certifying Individual: Company _____

Name

Signature _____

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Contractor shall install new safety climb wire rope guides to the threaded rods of the existing mount collar assemblies to prevent interference with mount connection.

Response:

--

Schedule A – Photo & Document File Structure



VzW Site Number / Name



Base & “During Installation” Photos



Pre-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Post-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Photos of climbing facility and safety climb – If Present



Certifications – Submission of this document including certifications

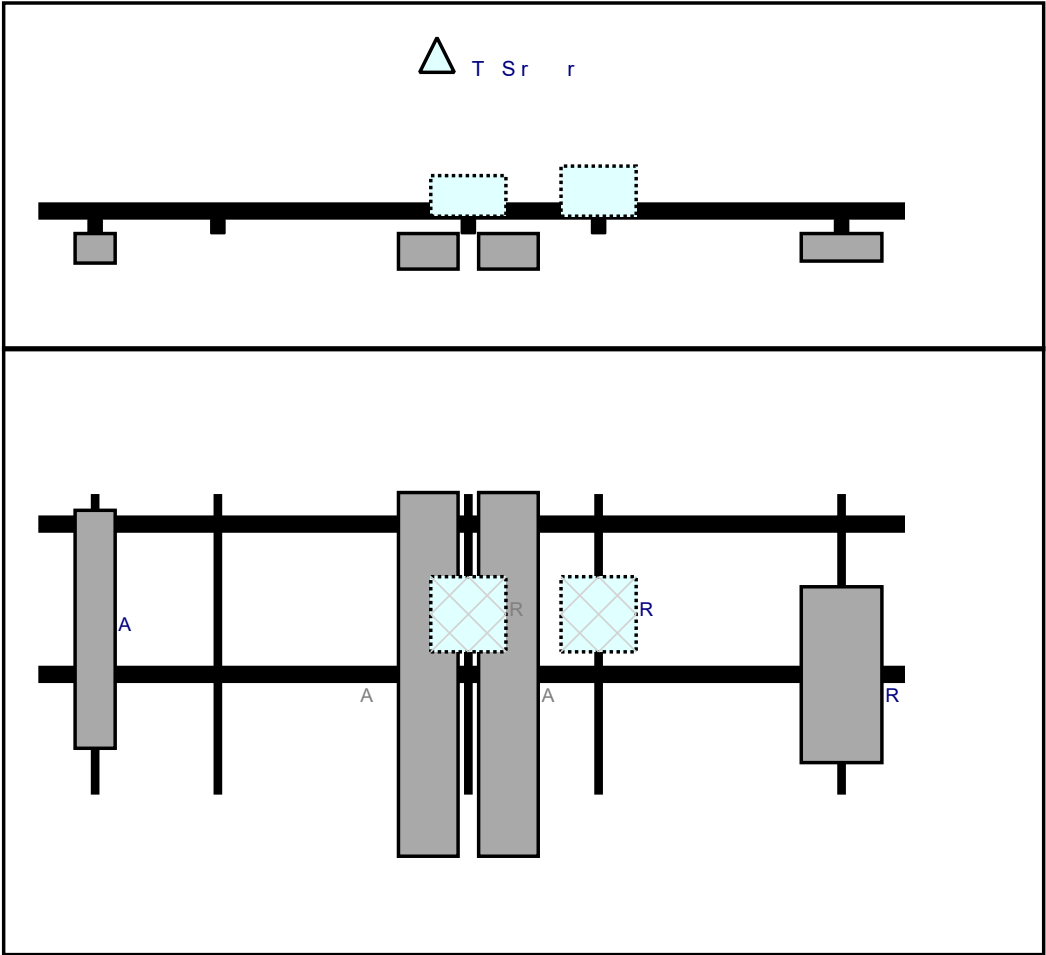


Specific Required Additional Photos

S r A
Sr r T M
M E .

P

Plan View



Front View

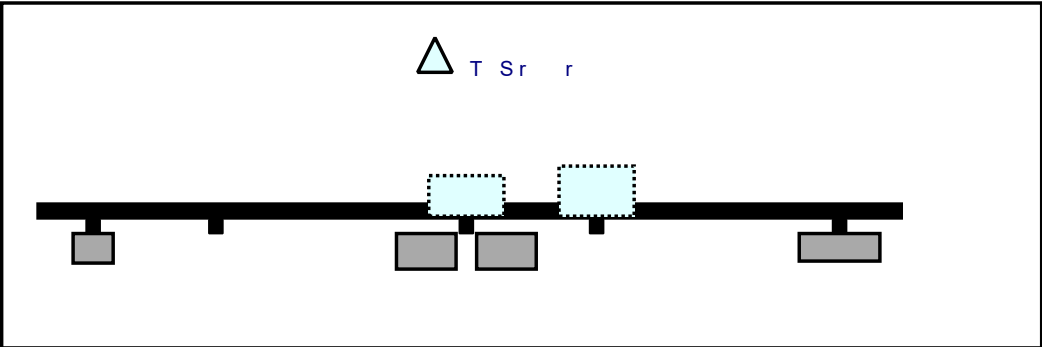
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R M d		d D P P A . A A		r L. P P r T. O S		d	
R	MT	A	.	.	.	r	Add d
R	B B	ARR BR	R	D A	.	B d	Add d
A	SB	D B	.	.	.	r	R d
A	SB	D B	.	.	.	r	R d
R	B B	RR BR	R	D A	.	B d	Add d
A	B A	B ED	.	.	.	r	R d

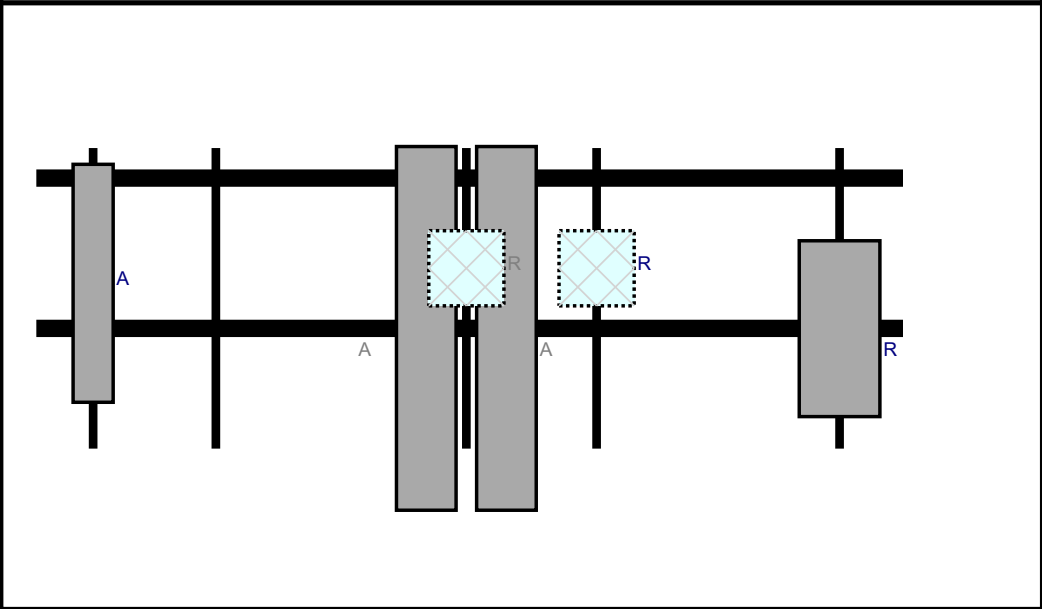
S r B
Sr r T M
M E .

P

Plan View



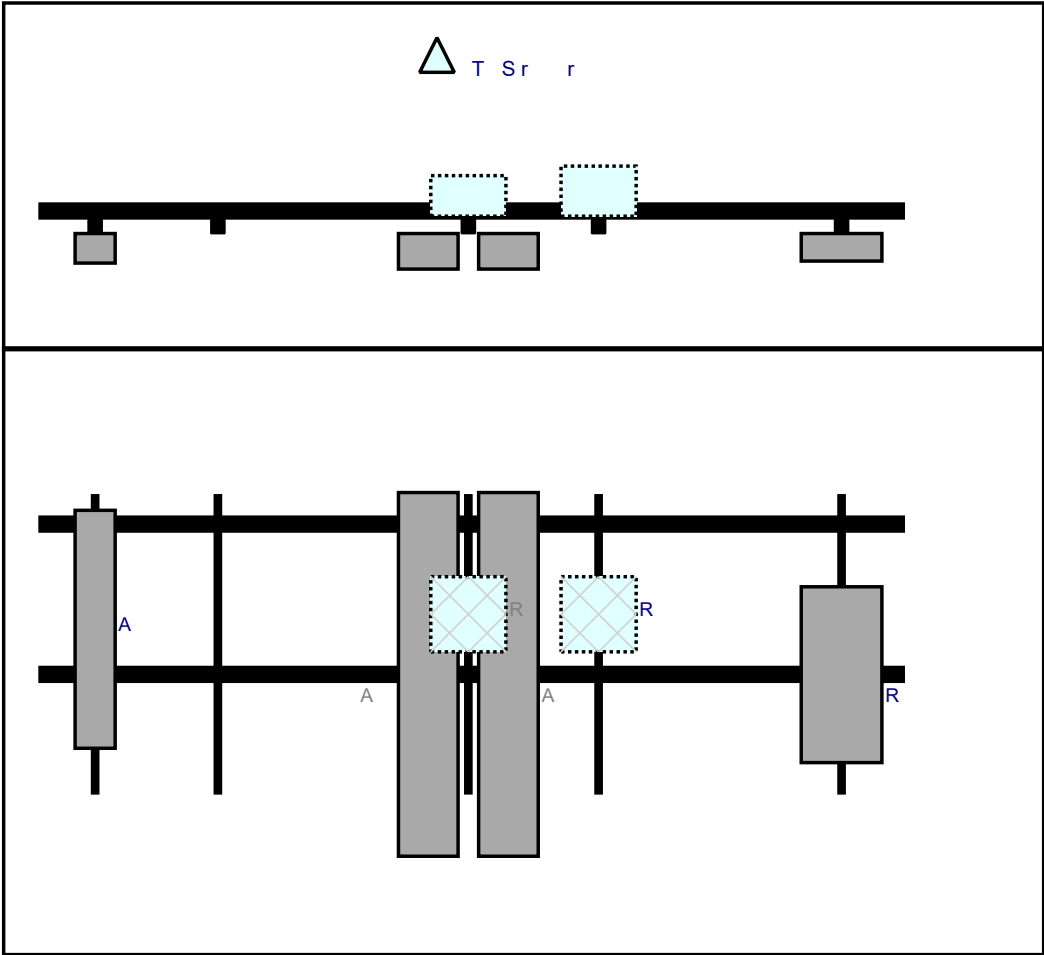
Front View



R M d		d D P P A .A A		r L. P P r T. O S		d	
A	B A	B	ED	.	.	r	R d
A	SB	D	B	.	.	r	R d
A	SB	D	B	.	.	r	R d
R	B B	RR	BR	R	D A	B d	Add d
R	MT	A	.	.	.	r	Add d
R	B B	ARR	BR	R	D A	B d	Add d

S r C
Sr r T M
M E .

P



R	M d	d	D	P	P	A	.A	A	S	d
R	MT	A	.	.	.	r	.		Add d	
R	B B	A RR	BR	R	D A	B	d		Add d	
A	SB	D B	.	.	.	r			R	d
A	SB	D B	.	.	.	r			R	d
R	B B	RR	BR	R	D A	B	d		Add d	
A	B A	B	ED	.	.	r			R	d

Site Information

Site ID: 468244-VZW / Lisbon CT
Site Name: Lisbon CT
Carrier Name: Verizon Wireless
Address: 26 Mell Rd
Lisbon, Connecticut 6351
New London County
Latitude: 41.591194°
Longitude: -72.017447°

Structure Information

Tower Type: 190-Ft Monopole
Mount Type: 14.42-Ft Platform

FUZE ID # 16244619

To Whom It May Concern,

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

The 2018 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,



Digitally signed by Justin Linette
Date: 2021.05.07 09:07:22-04'00'

Justin Linette, PE
Senior Technical Manager

By: FCENTONE
c:\Publish_15796\LIBSON CT.Mount MOD.dwg\T-1

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By: FCENTONE

BILL OF MATERIALS				
VZWSMART KITS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET	
15		VZWSMART-MSK1	CROSSOVER PLATE	
OTHER REQUIRED PARTS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	-	-	162" LONG, P2.5 STD	GALVANIZED
3	-	-	24" LONG, L3X3X1/4	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.

NOTE: 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 ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI



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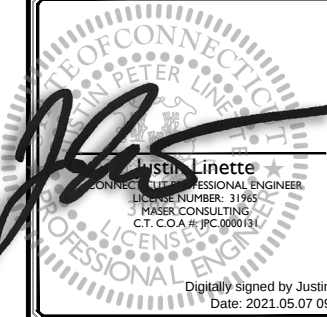
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SCALE: AS SHOWN

JOB NUMBER: 21777104A

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY



Justin Linette
CONNECTICUT PROFESSIONAL ENGINEER
LICENSE NUMBER: 31965
MASER CONSULTING
C.T. C.O.A.#: JPC0000131

Digitally signed by Justin Linette
Date: 2021.05.07 09:10:37-04'00'

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NEW LONDON COUNTY



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2000 Middanc Drive
Suite 100
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Phone: 856.797.0412
Fax: 856.722.1130

SHEET TITLE:

BILL OF MATERIALS

SHEET NUMBER:

S-1

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

- WIND LOADS
- a. BASIC WIND SPEED (3 SECOND GUST), V = 124 MPH
- b. EXPOSURE CATEGORY C
- c. TOPOGRAPHIC CATEGORY I
- d. MEAN BASE ELEVATION (AMSL) = 261.45'

- ICE LOADS
- a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
- b. ICE THICKNESS = 1.00 IN

- SEISMIC LOADS
- a. SEISMIC DESIGN CATEGORY B
- b. SHORT TERM MCER GROUND MOTION, S_g = .190
- c. LONG TERM MCER GROUND MOTION, S_g = .054

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
- a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
- b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
- c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
- CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
- STEEL PIPE ASTM A53 (GR 35)
- BOLTS ASTM A325
- NUTS ASTM A563
- LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
- b. PROVIDE MASER CONSULTING PROJECT CT # AND MASER CONSULTING CT PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.

5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

PROTECT STEEL BY ANY OTHER MEANS.

14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.



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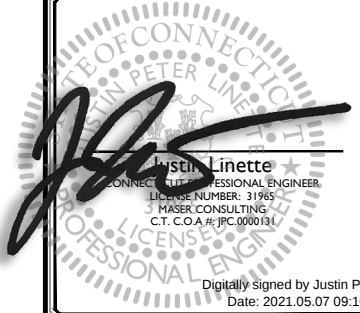
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Date: 2021.05.07 09:10:38 -04'00'

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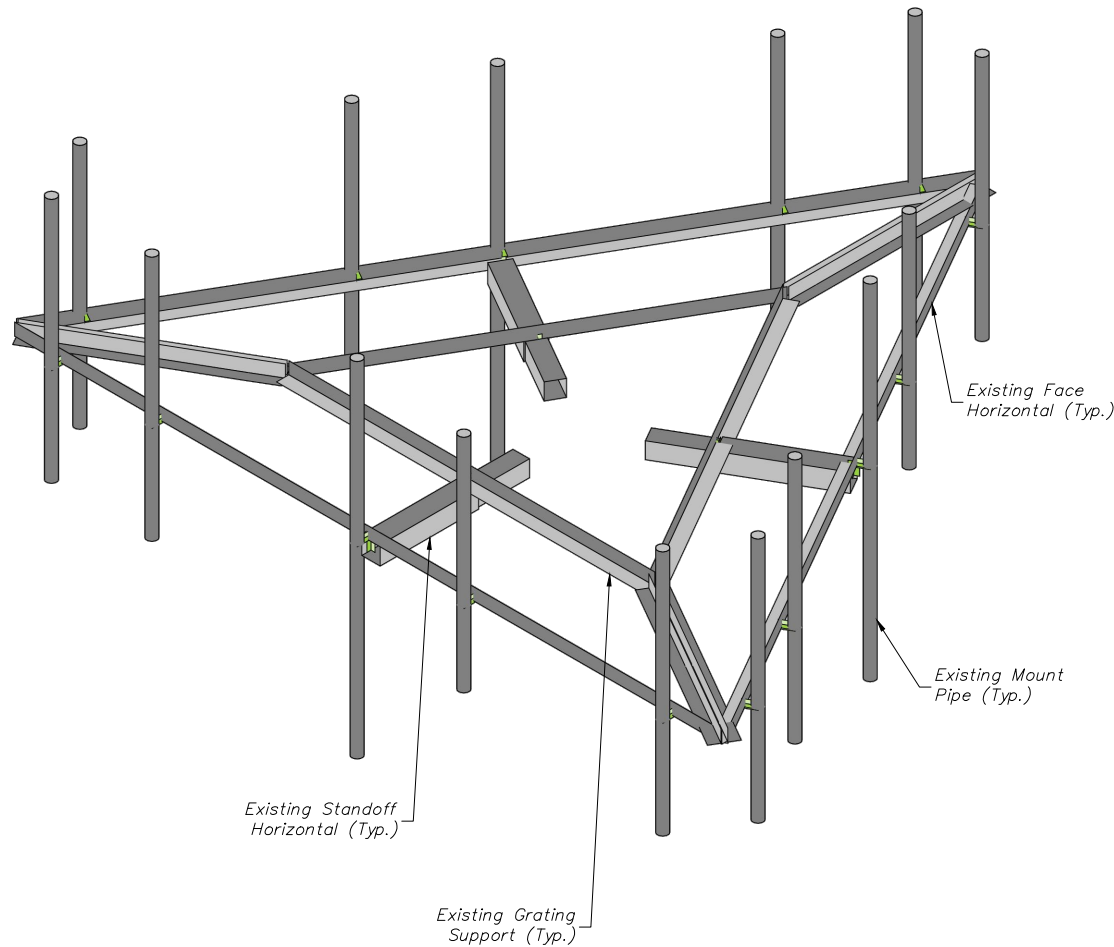


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2000 Millanac Drive
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Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

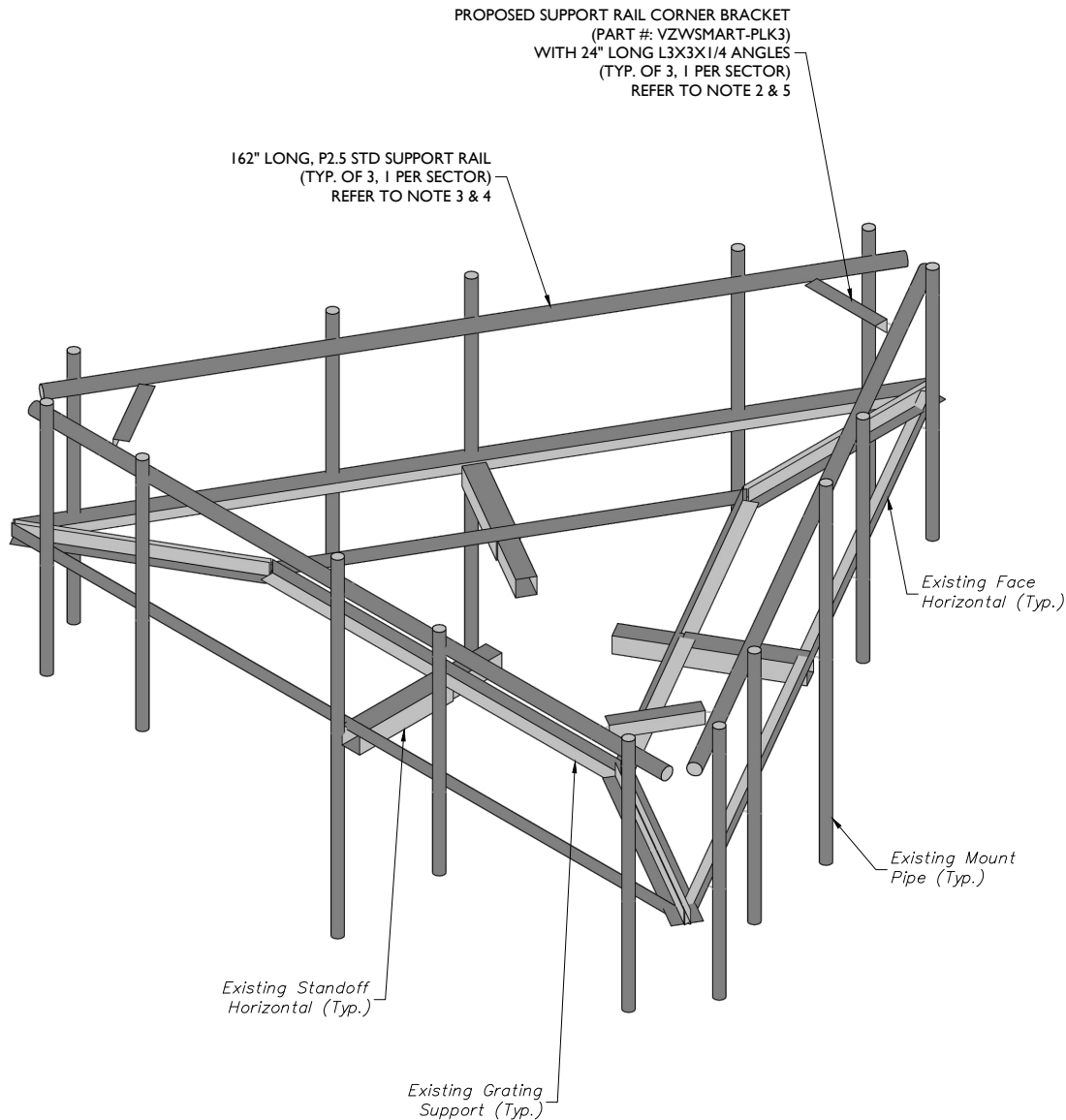


1 EXISTING PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 2/25/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (159'-0") ARE IN GOOD CONDITION, HOWEVER THEY ARE OBSTRUCTED BEFORE ACCESSING VERIZON'S MOUNT. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



2 PROPOSED PLATFORM ISOMETRIC VIEW

SCALE : N.T.S.

MODIFICATION NOTES:

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
- CONNECT NEW SUPPORT RAIL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONTRACTOR SHALL CONNECT PROPOSED L3x3 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.



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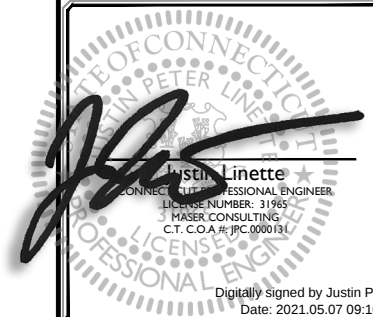
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SHEET NUMBER:
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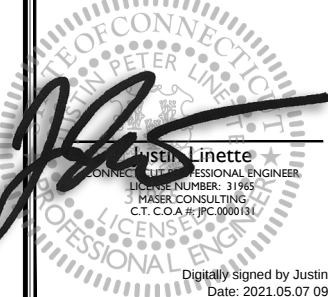
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Justin Linette

REGISTERED PROFESSIONAL ENGINEER

LICENSE NUMBER: 31965

MASER CONSULTING

C.T. C.O.A. # JPC0000131

Digitally signed by Justin Peter Linette
Date: 2021.05.07 09:10:39-04'00'

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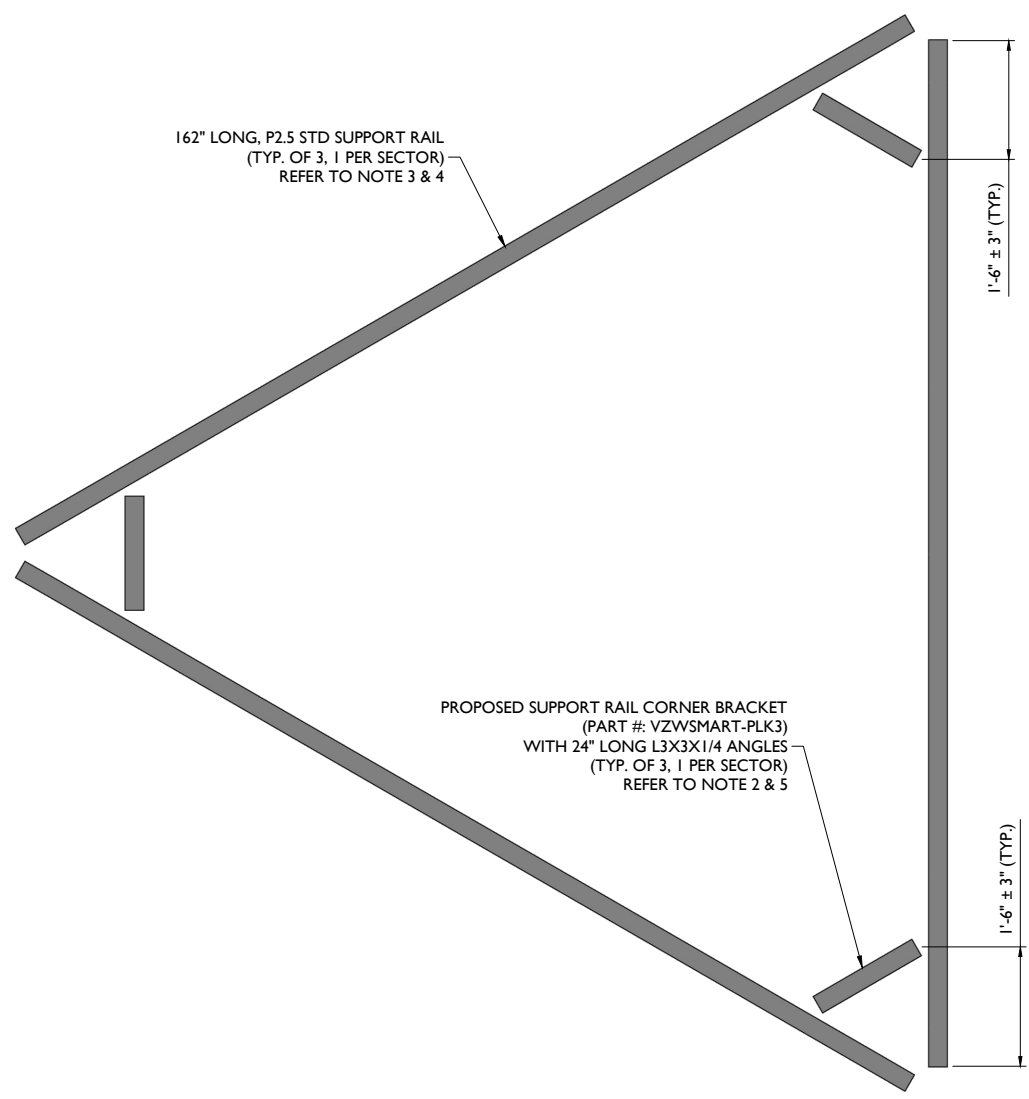
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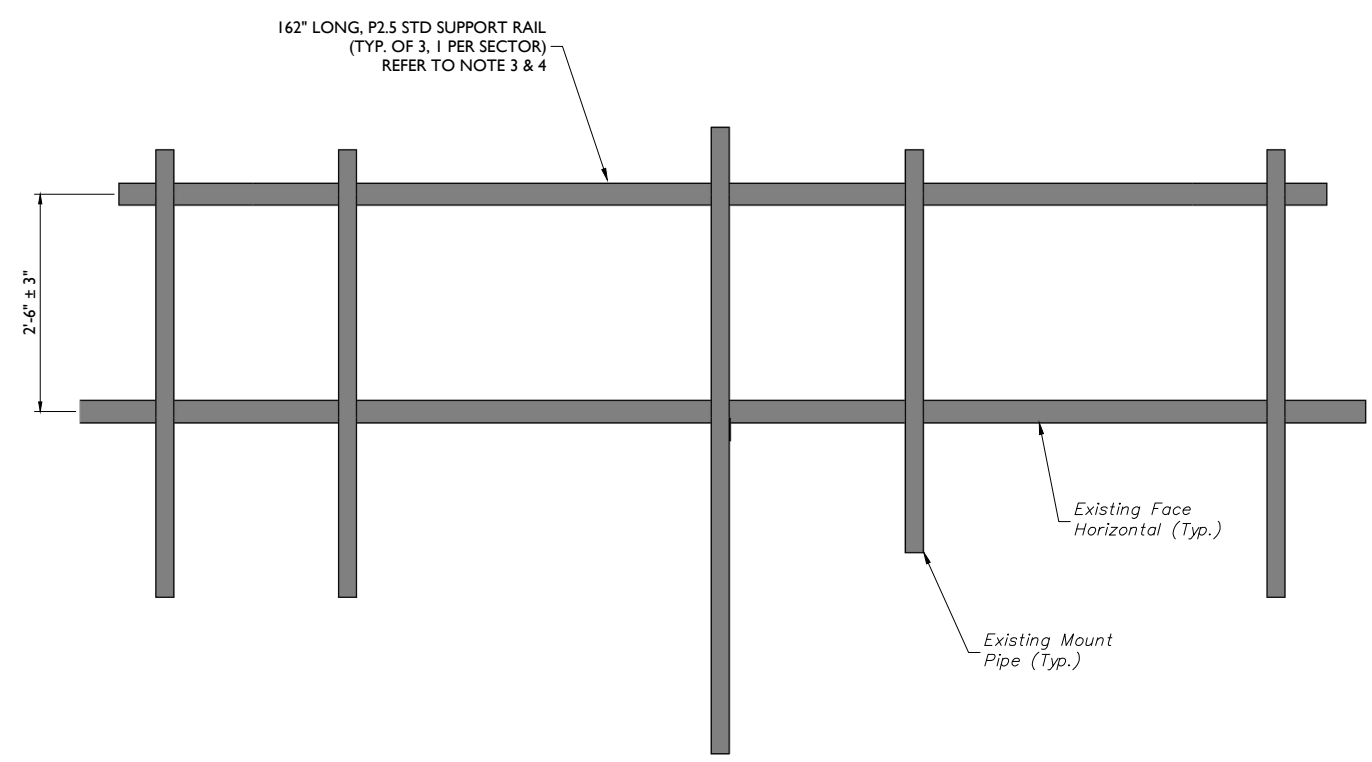
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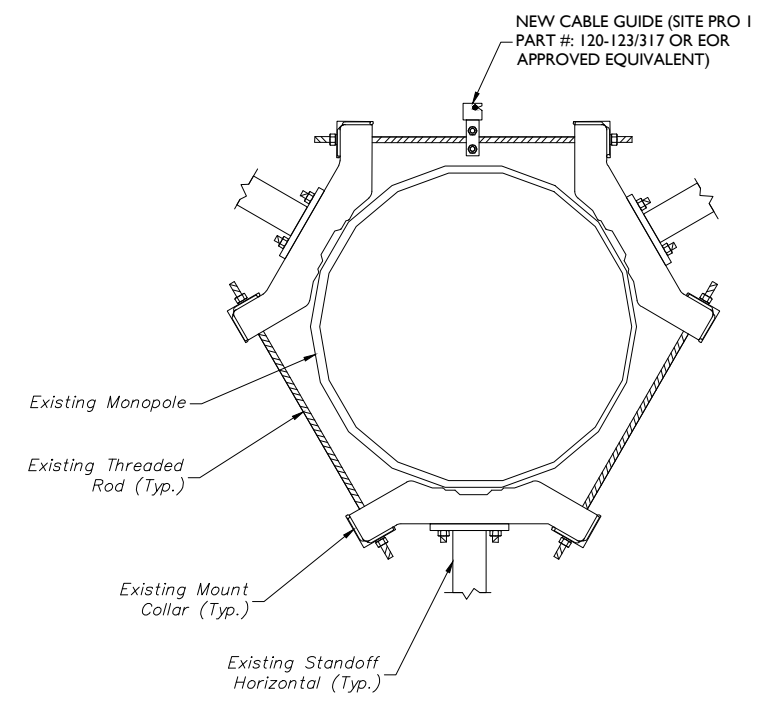


1 PROPOSED PLAN VIEW
SCALE : N.T.S.

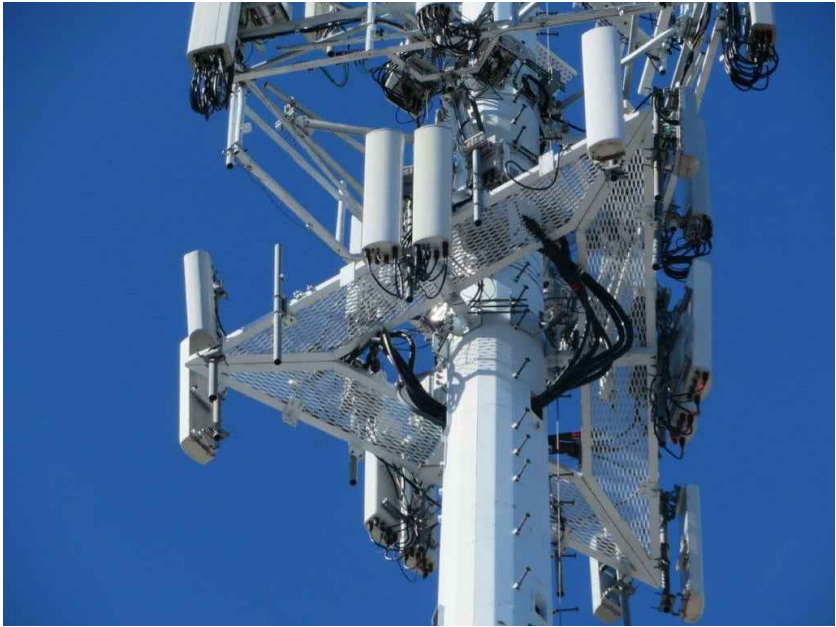
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2 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)
SCALE : N.T.S.



3 PROPOSED CABLE GUIDE THREADED ROD ATTACHMENT - PLAN VIEW
SCALE : N.T.S.



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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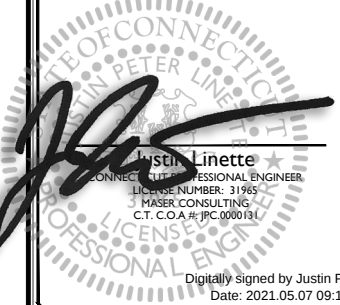
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Digitally signed by Justin Peter Linette
Date: 2021.05.07 09:10:39-04'00'

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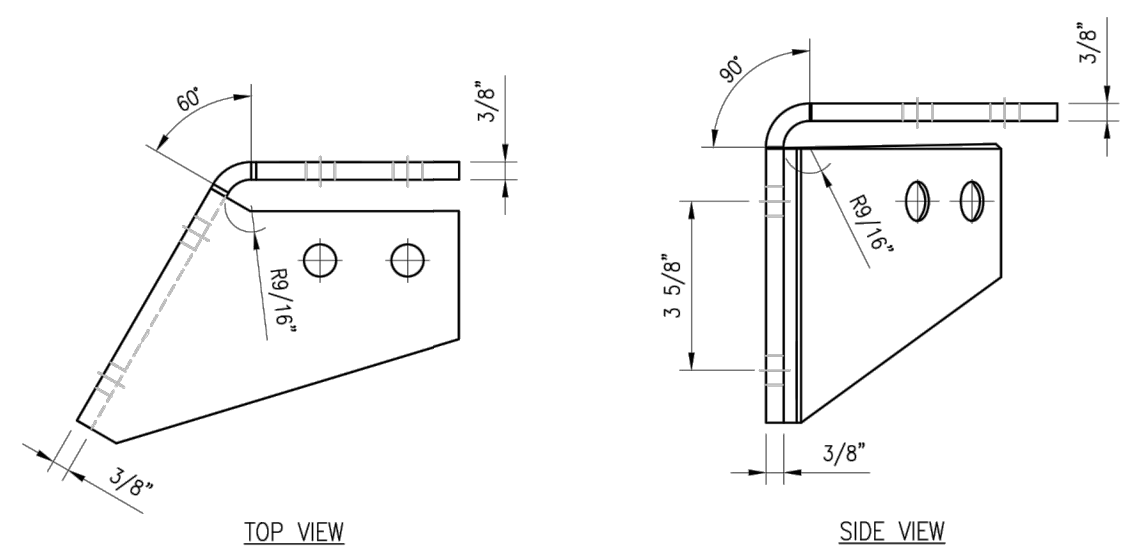
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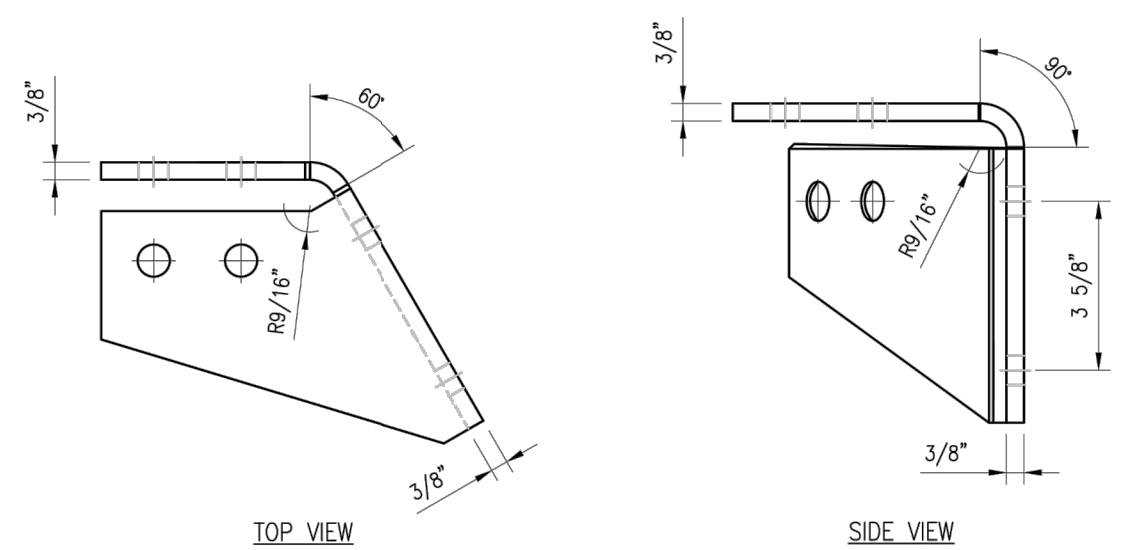
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CBP-L



CBP-R

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

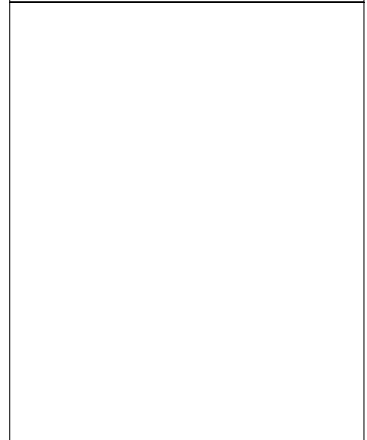
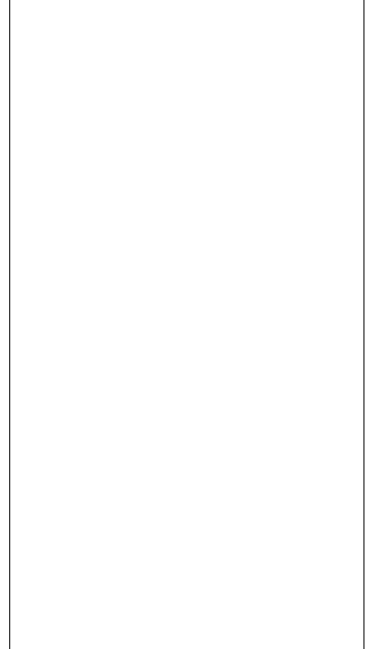
VZSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
GALVANIZED WT					30

DRAWN BY: H.R CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZSMART-PLK3
SUPPORT RAIL CORNER
BRACKET

SHEET NUMBER: VZSMART-PLK3	REV #: 0
-------------------------------	-------------

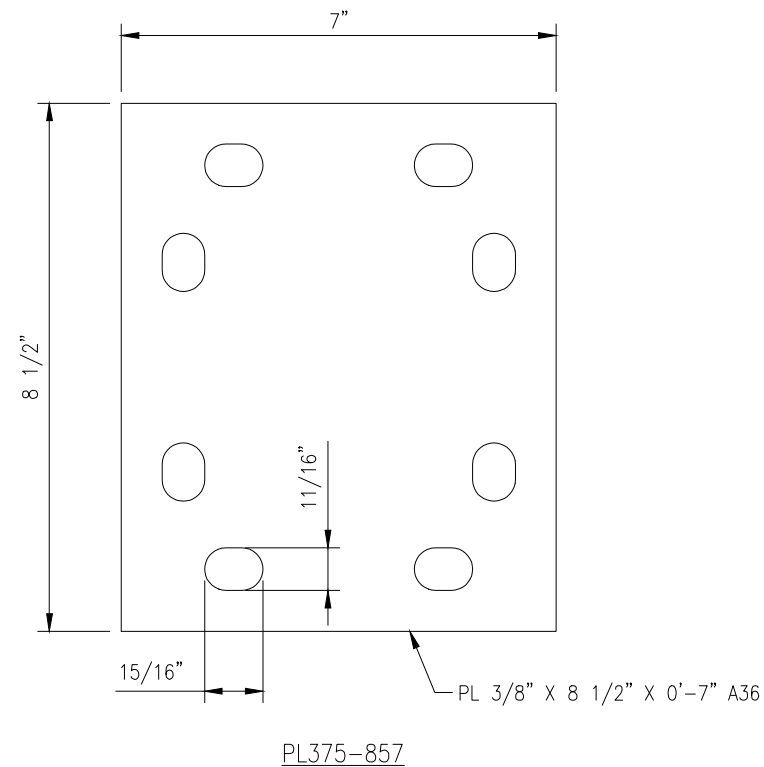
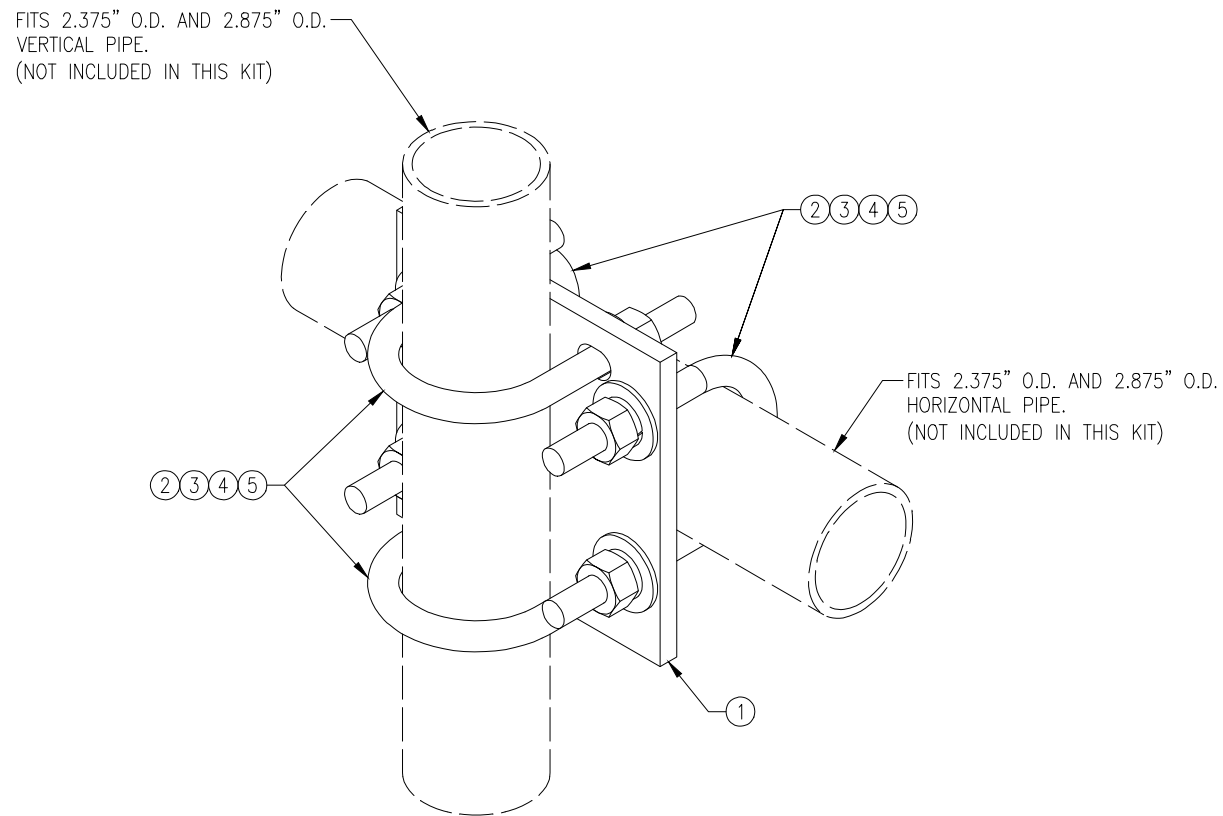


DRAWN BY: H.R		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20
△			
△			
△			
△			

SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

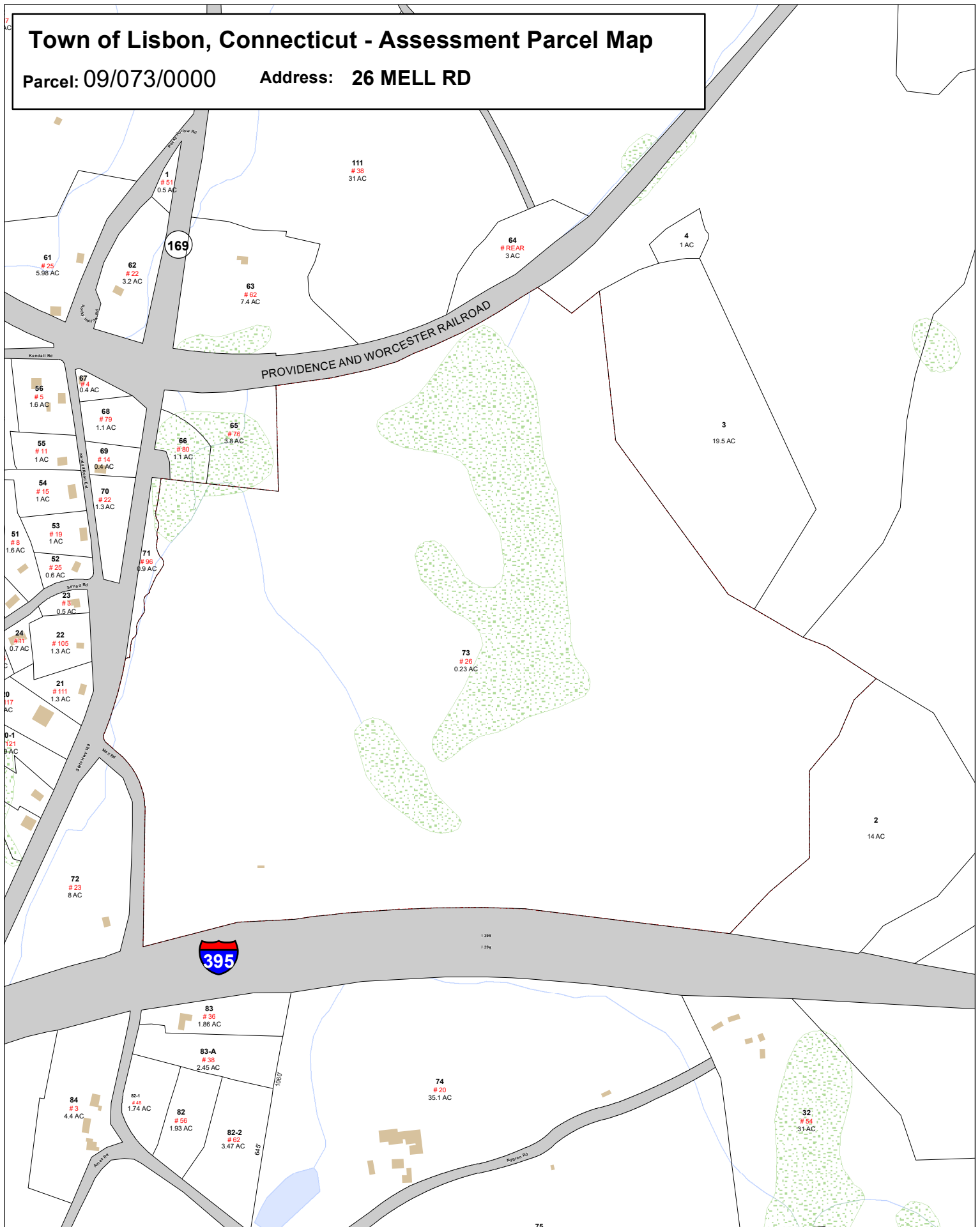
VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14

ATTACHMENT 5

Town of Lisbon, Connecticut - Assessment Parcel Map

Parcel: 09/073/0000

Address: 26 MELL RD



Approximate Scale:
1 inch = 538 feet

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



Map Produced
February 2021



Town of Lisbon, CT

Property Listing Report

Map Block Lot

09/073/0000

Building # 1

PID

1925

Account

W0183000

Property Information

Property Location	6 MELL RD
Owner	WILDOWSKY STANLEY JR
Co-Owner	WILDOWSKY RANDY
Mailing Address	20 NYGREN RD LISBON CT 06351
Land Use	7160 Pasture
Land Class	S
Zoning Code	R-60
Census Tract	

Neighborhood	200
Acreage	149.28
Utilities	
Lot Setting/Desc	
Fire District	
Book / Page	176/649
Additional Info	

Ph



Sketch



Primary Construction Details

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

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

(*Industrial / Commercial Details)

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

Report Created On

6/28/2021

Town of Lisbon, CT

Property Listing Report

Map Block Lot

09/073/0000

Building # **1**

PID

1925

Account

W0183000

Valuation Summary			Sub Areas		
(Assessed value = 70% of Appraised Value)					
Item	Appraised	Assessed	Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Buildings	0	0			
Extras	0	0			
Improvements					
Outbuildings	0	0			
Land	454940	23980			
Total	454940	23980			

Outbuilding and Extra Features

[illegible][illegible]

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
WILDOWSKY STANLEY JR	176/649	2020-10-28	0
WILDOWSKY STANLEY JR	77/11	1995-09-27	0

ATTACHMENT 6



LISBON
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 3	TOTAL NO. of Pieces Received at Post Office™ JUN 30 2021 OLD STATE HOUSE STATION 06103 USPS	Affix Stamp Here Postmark with Date of Receipt. neopost SM 06/30/2021 US POSTAGE \$002.89 ⁰ ZIP 06103 041L12203937		
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift	
1.	Thomas W. Sparkman, First Selectman Town of Lisbon 1 Newent Road Lisbon, CT 06351					
2.	Michael J. Murphy, Town Planner Town of Lisbon 1 Newent Road Lisbon, CT 06351					
3.	Stanley Wildowsky, Jr. 20 Nygren Road Lisbon, CT 06351					
4.						
5.						
6.						