

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

June 17, 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
38 Elm Street, Meriden, 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 roof-top tower and related equipment on the ground. The roof-top tower was approved by the City of Meriden (“City”). Cellco’s representatives reached out to the City in an effort to obtain a copy of the original tower approval. City officials were unable, however, to locate copies of the original tower approval. Cellco’s use of the tower was approved the Council in June of 1995 (Metro Mobile CTS of New Haven). A copy of the Cellco’s tower share approval letter and staff report are included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) MXO6FRO660 antennas on Cellco’s existing antenna mounting structure. A set of project plans showing Cellco’s proposed facility modifications and new antennas 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 Meriden’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
June 17, 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 will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for the modified facility is 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, the tower foundation and the antenna mounting structure 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 nL-Sub6 Antenna or L-Sub6 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 17, 2021
Page 3

Sincerely,

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

Kenneth C. Baldwin

Enclosures

Copy to:

Kevin Scarpati, Meriden Mayor
Paul Dickson, Acting Director of Planning, Development and Enforcement
Ashley Harriman LLC, Property Owner
Aleksey Tyurin

ATTACHMENT 1



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051-4225
Phone: 827-7682

June 21, 1995

Kenneth C. Baldwin, Esq.
Robinson & Cole
One Commercial Plaza
280 Trumbull Street
Hartford, CT 06103-3597

Re: Metro Mobile CTS of New Haven, Inc. request for an order to approve tower sharing at an existing telecommunications facility located on the roof of a building at 38 Elm Street, Meriden, Connecticut.

Dear Attorney Baldwin:

At a meeting held June 20, 1995, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower 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 tower to avoid the unnecessary proliferation of tower structures.

The proposed shared use is to be implemented as specified in your letter dated June 6, 1995. Please notify the Council when all work is complete. A copy of the staff report on this request is enclosed for your information.

Very truly yours,

A handwritten signature in cursive script that reads "Mortimer A. Gelston" followed by a date "4/12".

Mortimer A. Gelston
Chairman

MAG:FOC:mmb
Enclosure

cc: The Honorable Joseph J. Marinan, Jr., Mayor, City of Meriden



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401
New Britain, Connecticut 06051-4225
Phone: 827-7682

Metro Mobile CTS of New Haven, Inc.
Request for Order to Approve Tower Sharing
Meriden, Connecticut
June 20, 1995

On June 6, 1995, Metro Mobile CTS of New Haven, Inc. (Metro Mobile) submitted to the Connecticut Siting Council (Council) a request for the Council to order shared use of an existing tower pursuant to General Statutes § 16-50aa which states, "An owner of a facility which agrees to the shared use of the facility pursuant to this section may request in writing that the Council approve the proposed shared use of the facility. If the council finds that the proposed shared use of the facility is technically, legally, environmentally, and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use."

On June 16, 1995, Mortimer A. Gelston, Chairman of the Council, William J. Huber and Joel M. Rinebold inspected the site. Fred Cunliffe of the Council staff met with Sandy Ranciato and Mark Gauger to review the proposed site.

The existing tower site is located on the roof of a 19-foot building at 38 Elm Street, Meriden, Connecticut, owned and operated by John Arnold. A 45-foot self-supporting lattice tower is supported by a three-foot high steel support structure attached to the roof. Presently, a single whip antenna is attached to the top of this tower creating an overall height of 80 feet above ground level. Metro Mobile will forward a structural analysis of the existing tower with Metro Mobile antennas on it when it becomes available.

Metro Mobile would install 15 four-foot by one-foot antennas with the center of radiation at the 68-foot level of the existing tower. Metro Mobile would construct a 21-foot by 30-foot equipment shelter to the rear of Mr. Arnold's building. On October 11, 1994, Mr. Arnold received a building permit from the City of Meriden for the construction of the tower. Metro Mobile would obtain a building permit for its equipment shelter subsequent to Council approval. Surrounding land use is commercial and residential.

The addition of the cellular antennas to the existing tower would not increase the tower's height, extend the boundaries of the site, increase noise levels at the site boundaries by six decibels or more or increase the total radio frequency electromagnetic radiation power density to or above the State standard (28.5% of the State standard) pursuant to General Statutes § 22a-162. In addition, there is no expectation that this facility would cause local radio interference. No waste or sanitary facilities would be required, and no air pollutants would be emitted.

Metro Mobile contends the sharing of this tower is technically, legally, environmentally, and economically feasible and meets public safety concerns. Therefore, Metro Mobile requests the Council approve the proposed shared use of the facility and issue an order approving such shared use under General Statutes § 16-50aa.

Fred O. Cunliffe
Siting Analyst

FOC:mmb

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

**SITE NAME:
MERIDEN E CT
BLUE SKY TOWERS
38 ELM ST.
MERIDEN, CT 06450**

ANTENNA MODIFICATION

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINPAAL, P.E.
CT LIC NO. 22144

SUBMITTALS

NO	DATE	REVISION
0	01.28.21	REVIEW
1	03.24.21	PERMITTING/CONSTRUCTION

NO DATE DESCRIPTION

DRAWN BY: MRF
CHECKED BY: DW

PROJECT NAME:
**ANTMO
VZS01
DESIGN EXHIBITS**

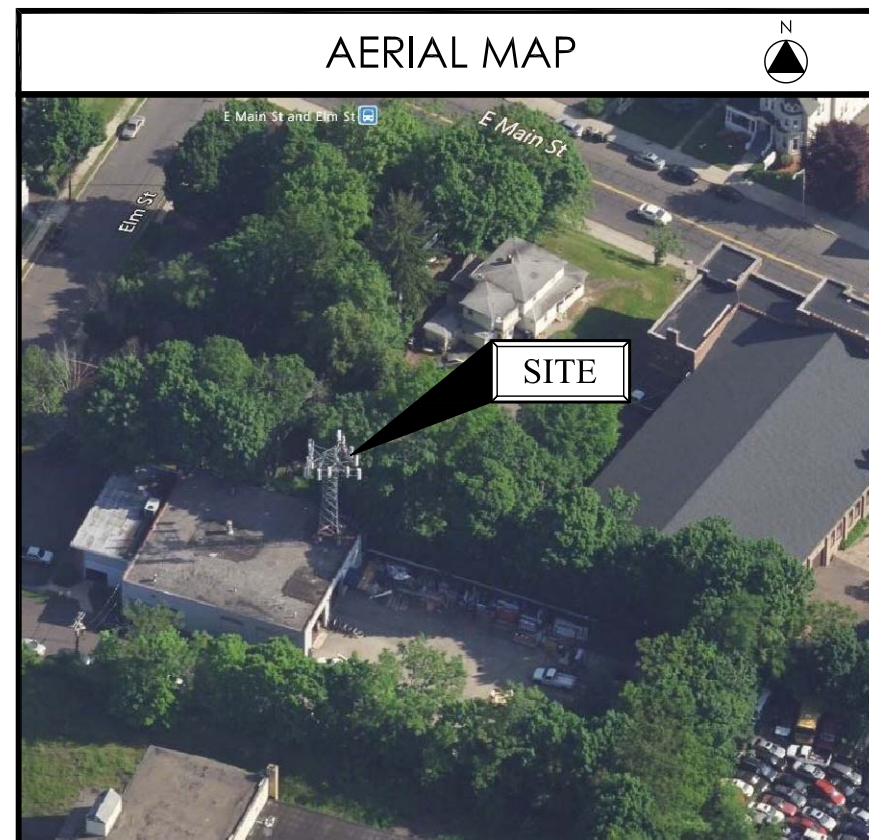
SITE NAME:
MERIDEN E CT

SITE ADDRESS:
**BLUE SKY TOWERS
38 ELM ST.
MERIDEN, CT 06450**

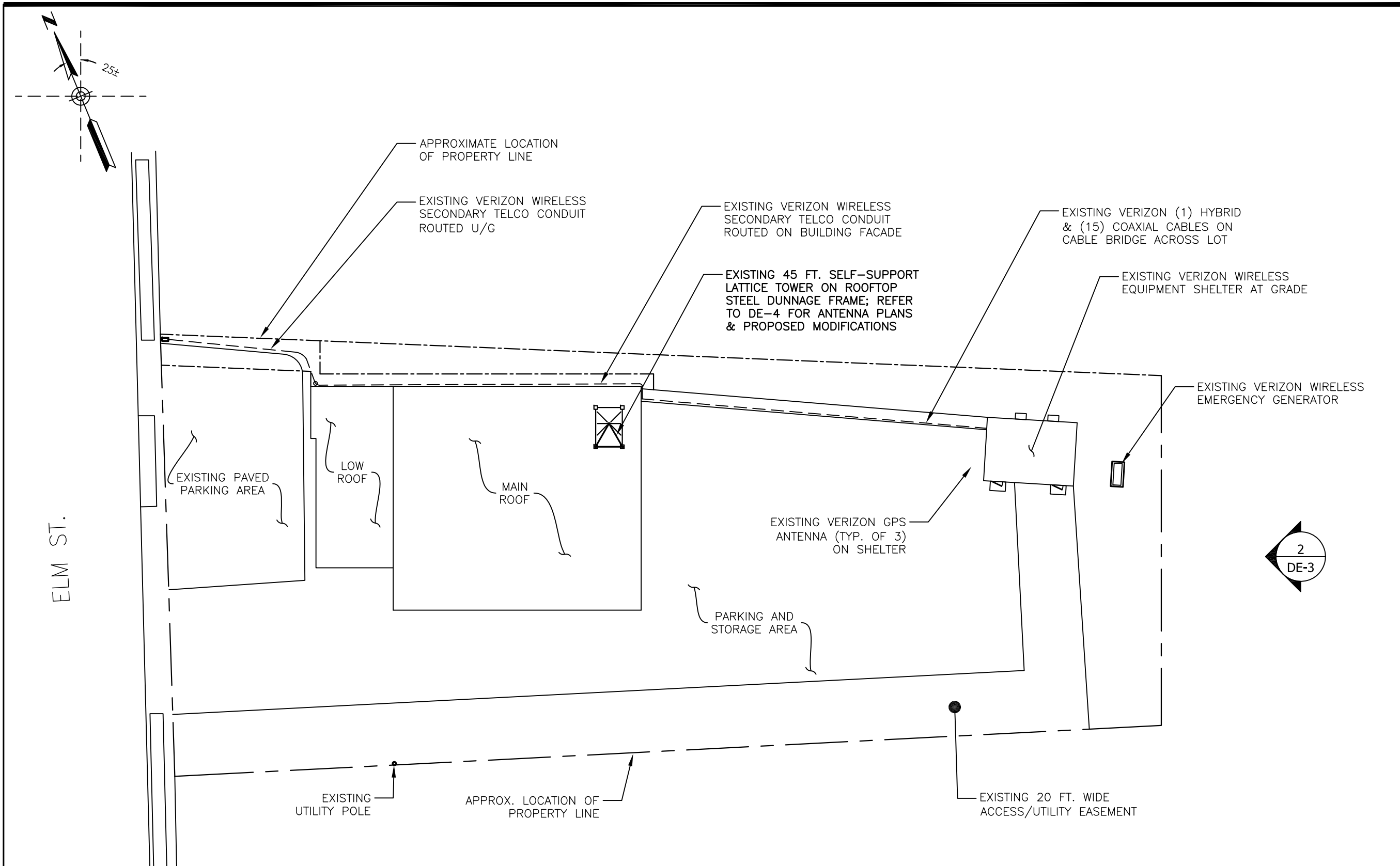
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
DE-1

PROJECT SUMMARY	
SITE NAME:	MERIDEN E CT
SITE ADDRESS:	38 ELM ST. MERIDEN, CT 06450
PROPERTY OWNER:	ASHLEY HARRIMAN LLC 38 ELM ST. MERIDEN, CT 06450
TOWER OWNER/MGMT:	BLUE SKY TOWERS
PARCEL ID:	0218-0111-0006-0000
COORDINATES:	41° 32' 03.354" N 72° 47' 47.346" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195

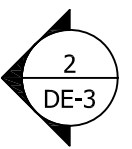


SHEET INDEX	
DE-1	TITLE SHEET
DE-2	SITE LAYOUT
DE-3	PARTIAL ROOF PLAN AND EAST ELEVATION
DE-4	ANTENNA PLANS AND ELEVATION
DE-5	RF PLUMBING DIAGRAM AND B.O.M.
DE-6	GENERAL CONSTRUCTION NOTES



NOTES:
 1. SITE LAYOUT IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 1-18-21 FOR A PROPOSED VERIZON ANTENNA MODIFICATION.
 2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.
 3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.

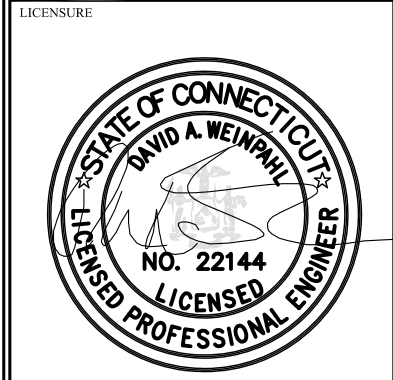
1
DE-2 **SITE LAYOUT**
 Scale: 1/32" = 1'-0"



20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492



88 Foundry Pond Road
 Cold Spring, NY 10516
 201-456-4624
 onair@optonline.net



DAVID WEINPAAL, P.E.
 CT LIC NO. 22144

SUBMITTALS		
NO	DATE	REVISION
0	01.28.21	REVIEW
1	03.24.21	PERMITTING/CONSTRUCTION

NO	DATE	DESCRIPTION

PROJECT NAME:
**ANTMO
 VZS01
 DESIGN EXHIBITS**

SITE NAME:
MERIDEN E CT

SITE ADDRESS:
**BLUE SKY TOWERS
 38 ELM ST.
 MERIDEN, CT 06450**

SHEET TITLE:
SITE LAYOUT

SHEET NUMBER:
DE-2



WIRELESS COMMUNICATIONS FACILITY

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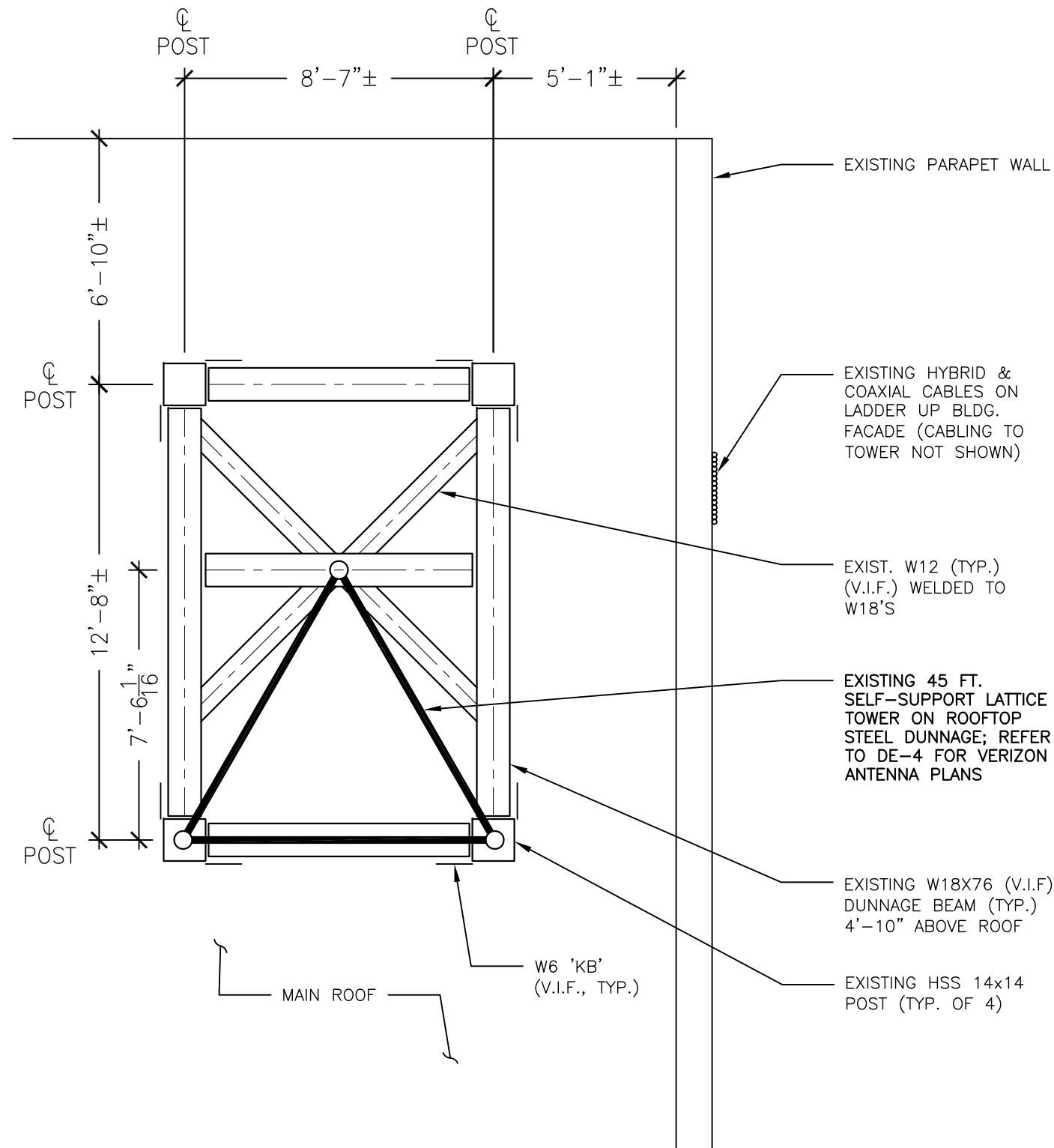
PROJECT NAME:
**ANTMO
VZS01
DESIGN EXHIBITS**

SITE NAME:
MERIDEN E CT

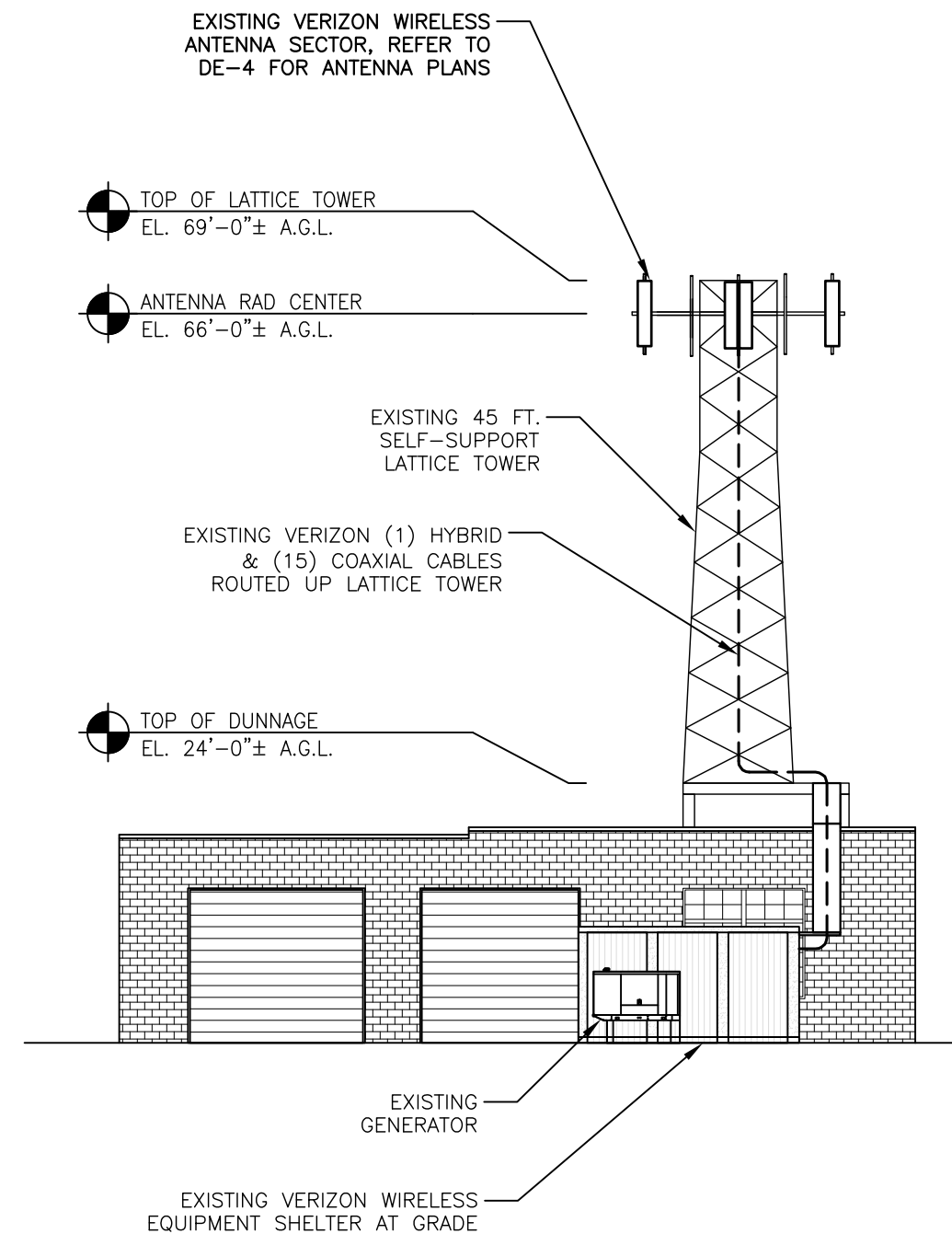
SITE ADDRESS:
**BLUE SKY TOWERS
38 ELM ST.
MERIDEN, CT 06450**

SHEET TITLE:
**PARTIAL ROOF PLAN
& EAST ELEVATION**

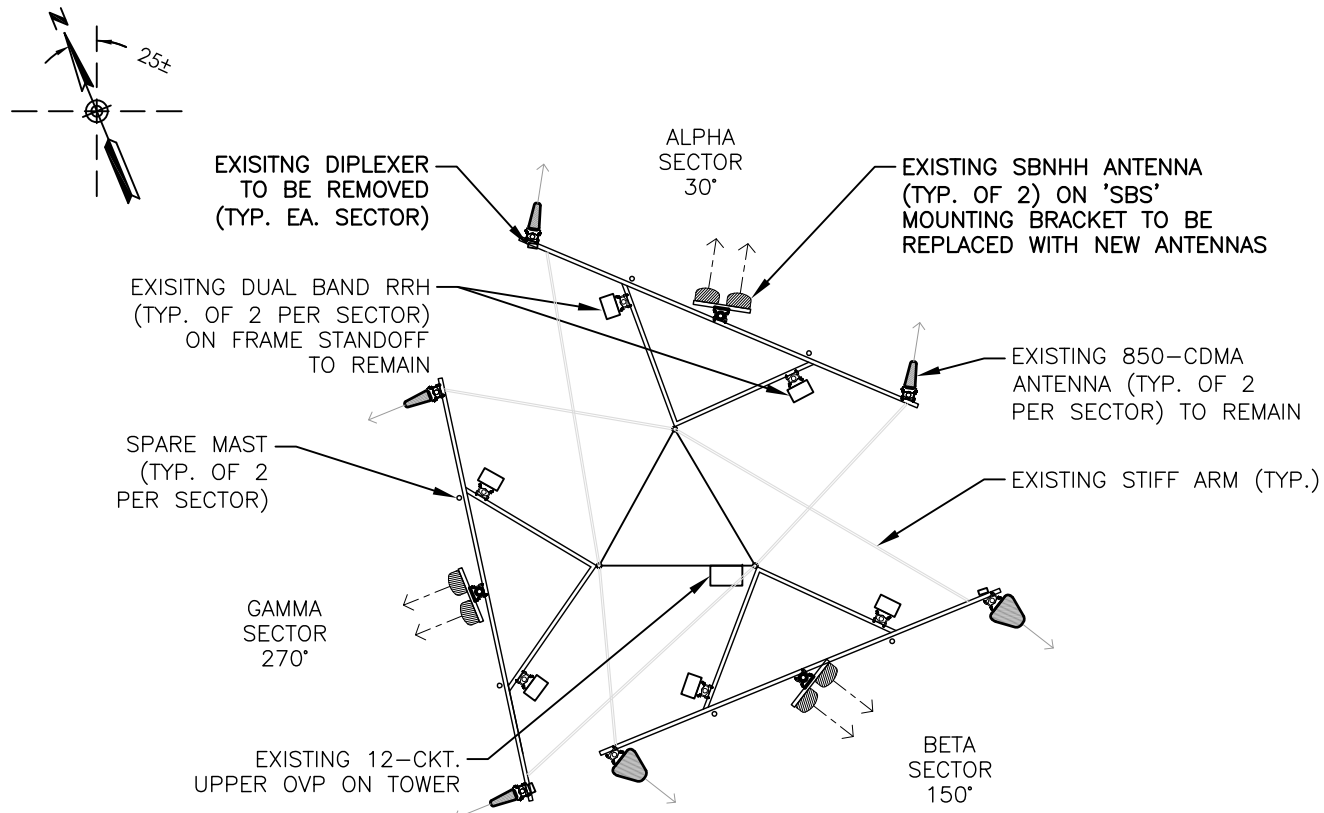
SHEET NUMBER:
DE-3



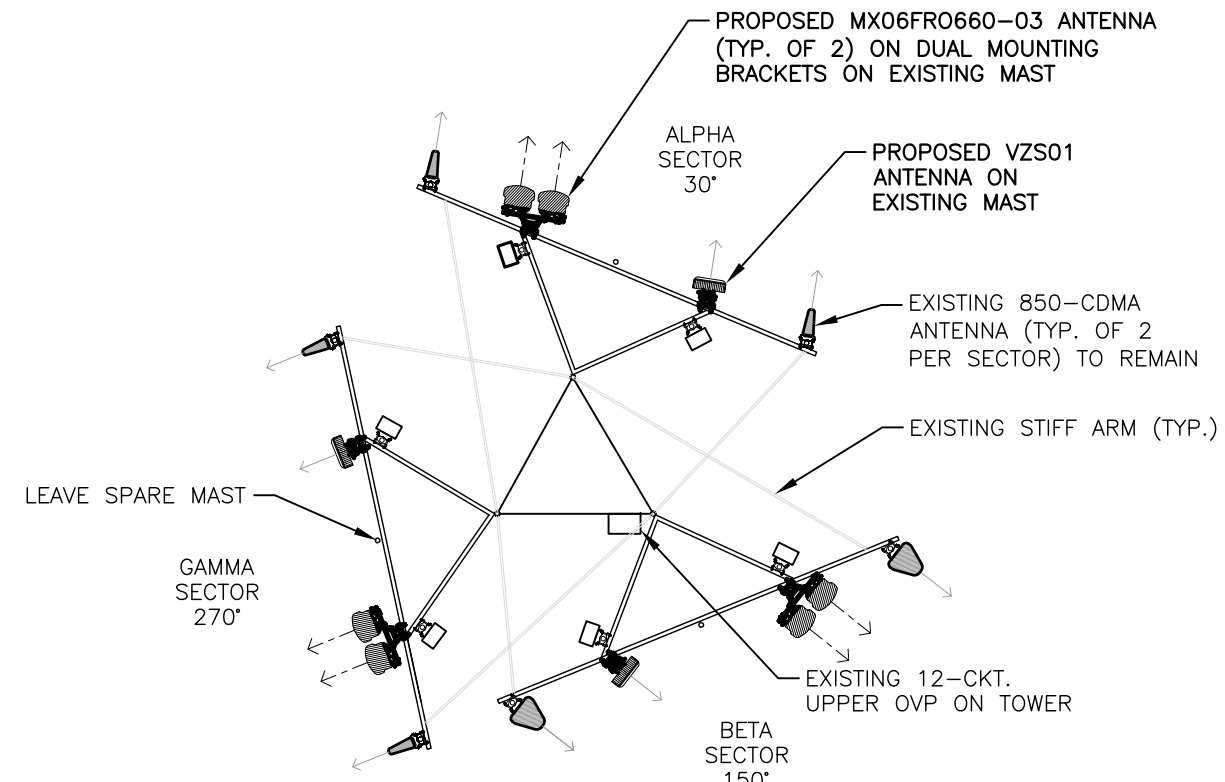
1 PARTIAL ROOF PLAN
Scale: 1/4" = 1'-0"



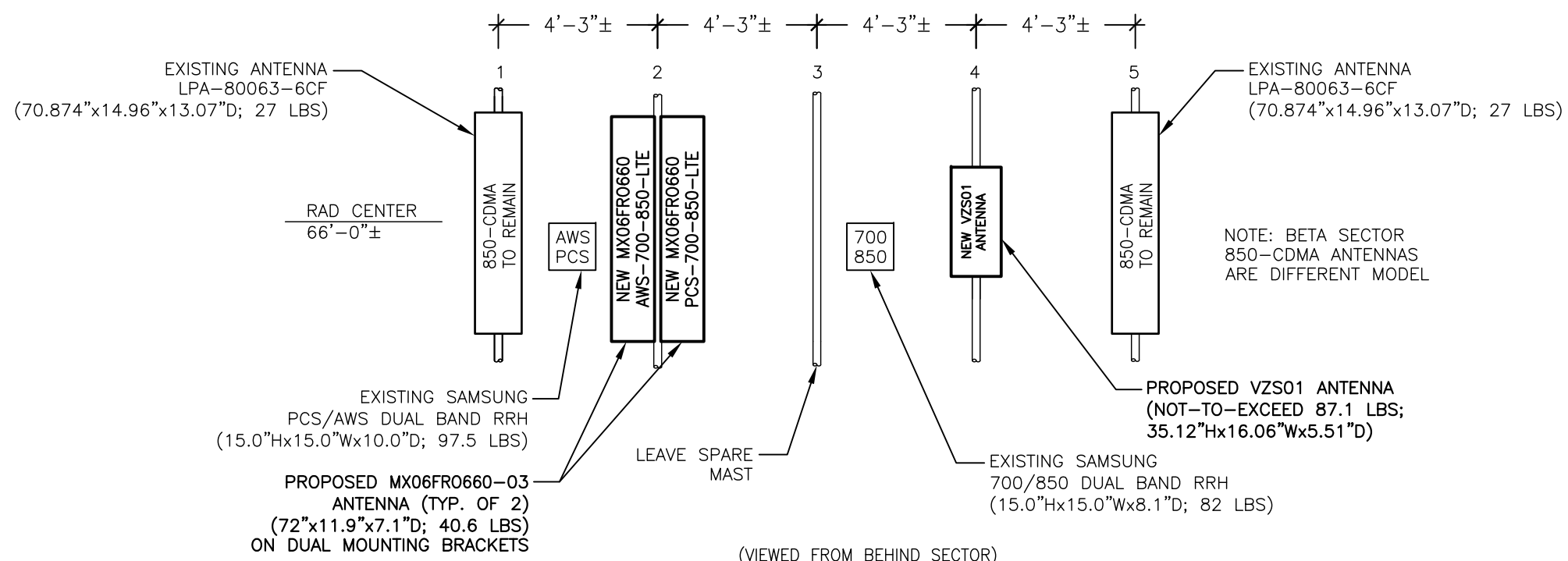
2 EAST ELEVATION
Scale: 1/16" = 1'-0"



1 ANTENNA PLAN @ 66 FT. - EXISTING
 Scale: 1/8" = 1'-0"
 DE-4



2 ANTENNA PLAN @ 66 FT. - PROPOSED
 Scale: 1/8" = 1'-0"
 DE-4



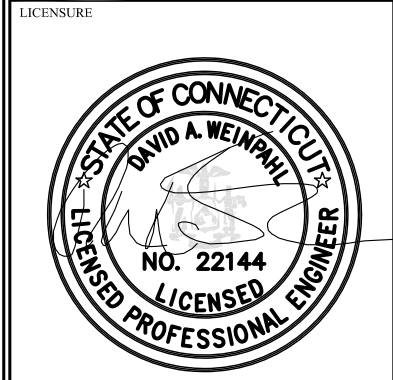
3 ANTENNA ELEVATION (TYP.) - PROPOSED
 Scale: 1/4" = 1'-0"
 DE-4



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PROJECT NAME:
ANTMO VZS01 DESIGN EXHIBITS

SITE NAME:
MERIDEN E CT

SITE ADDRESS:
**BLUE SKY TOWERS
 38 ELM ST.
 MERIDEN, CT 06450**

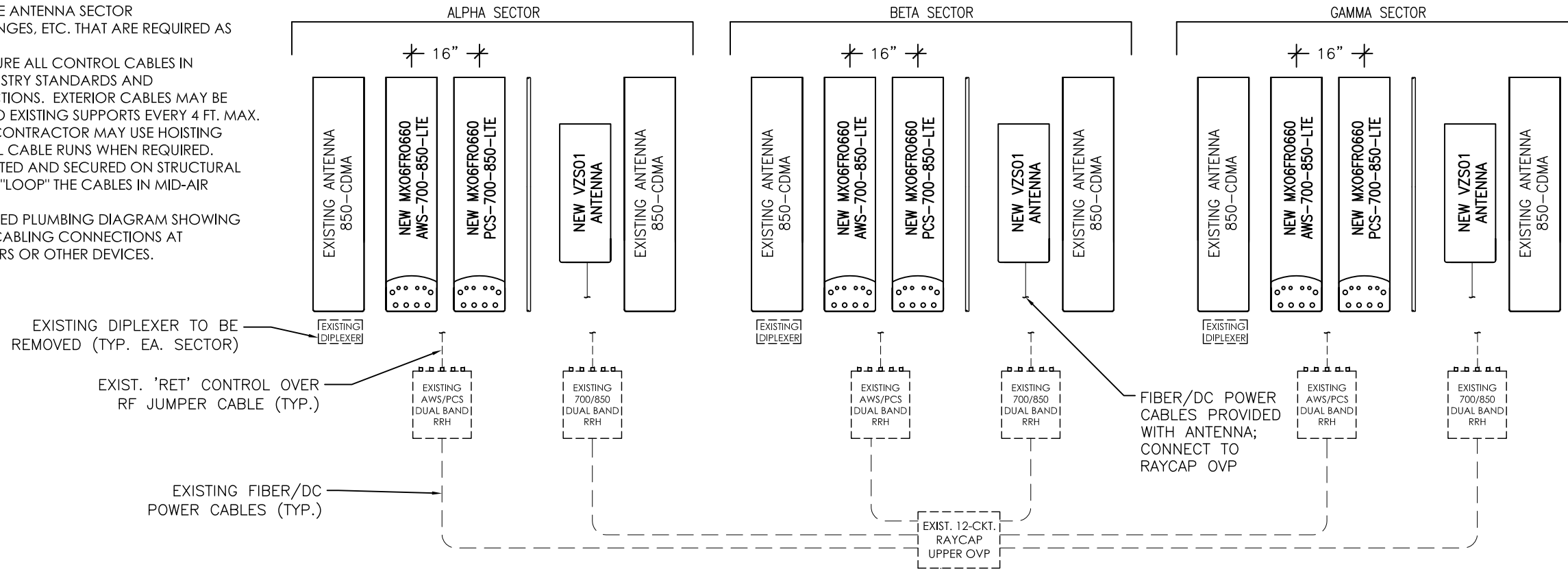
SHEET TITLE:
ANTENNA PLANS & ELEVATION

SHEET NUMBER:
DE-4

GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
3. ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
4. REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH's, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



EXISTING (15) COAXIAL CABLES TO REMAIN

EXISTING (1) 12x24 L.I. HYBRID CABLE

EXISTING EQUIPMENT SHELTER AT GRADE

BILL OF MATERIALS			
SITE NAME: MERIDEN E CT		ANTMO VZS01	
DESCRIPTION	QTY	LENGTH	COMMENTS
12-CKT. LOWER OVP	-	-	EXISTING TO REMAIN
12-CKT. UPPER OVP	-	-	EXISTING TO REMAIN
12x24 HYBRID CABLE	-	-	EXISTING TO REMAIN
RET CONTROL CABLE	-	-	NOT REQUIRED
1/2" JUMPERS	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	-	-	EXISTING TO REMAIN - 1 PER SECTOR
700/850 DUAL BAND RRH	-	-	EXISTING TO REMAIN - 1 PER SECTOR
VZS01 ANTENNA	3	-	SAMSUNG INTEGRATED - REFER TO RFDS
MX06 ANTENNA AWS-700-850-LTE	3	-	REFER TO RFDS - 1 PER SECTOR
MX06 ANTENNA PCS-700-850-LTE	3	-	REFER TO RFDS - 1 PER SECTOR
DUAL MOUNTING BRACKET	3	-	REFER TO RFDS - 1 PER SECTOR
850-CDMA ANTENNA	-	-	EXISTING (6) TO REMAIN - 2 PER SECTOR

1 DE-5 RF PLUMBING DIAGRAM Scale: N.T.S

- NOTES:
1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
 2. CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

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NO	DATE	DESCRIPTION

PROJECT NAME:
ANTMO VZS01 DESIGN EXHIBITS

SITE NAME:
MERIDEN E CT

SITE ADDRESS:
**BLUE SKY TOWERS
38 ELM ST.
MERIDEN, CT 06450**

SHEET TITLE:
RF PLUMBING DIAGRAM & B.O.M.

SHEET NUMBER:
DE-5

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.*
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON IS TO BE* REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.

verizon
WIRELESS COMMUNICATIONS FACILITY

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0	01.28.21	REVIEW
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NO	DATE	DESCRIPTION

PROJECT NAME:
**ANTMO
VZS01
DESIGN EXHIBITS**

SITE NAME:
MERIDEN E CT

SITE ADDRESS:
**BLUE SKY TOWERS
38 ELM ST.
MERIDEN, CT 06450**

SHEET TITLE:
**GENERAL
CONSTRUCTION
NOTES**

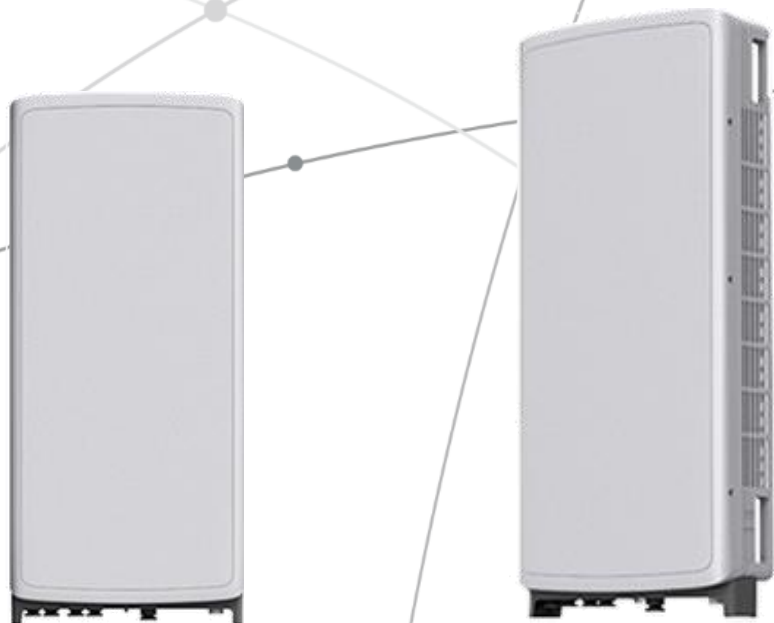
SHEET NUMBER:
DE-6

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



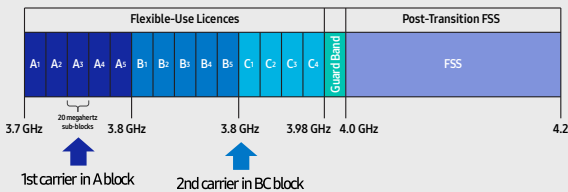
Points of Differentiation

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

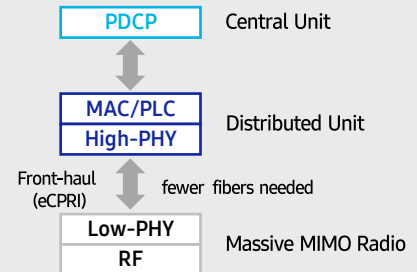
C-Band spectrum supported by Massive MIMO Radio



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.

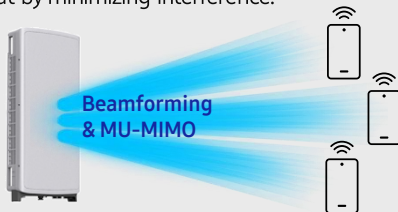


Enhanced Performance

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.

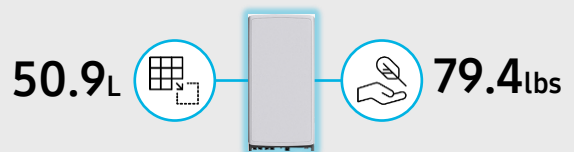
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



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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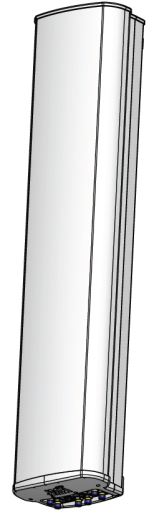
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



NWAV™

Fast Roll-Off antennas increase data throughput without compromising coverage

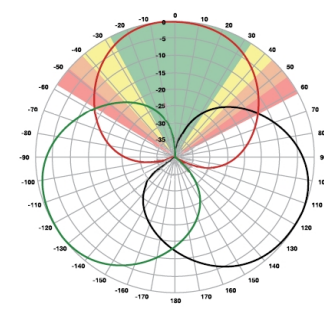
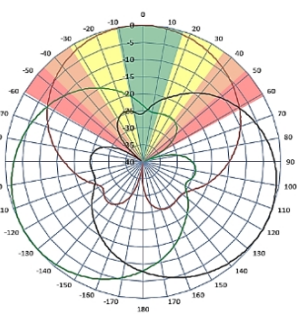
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



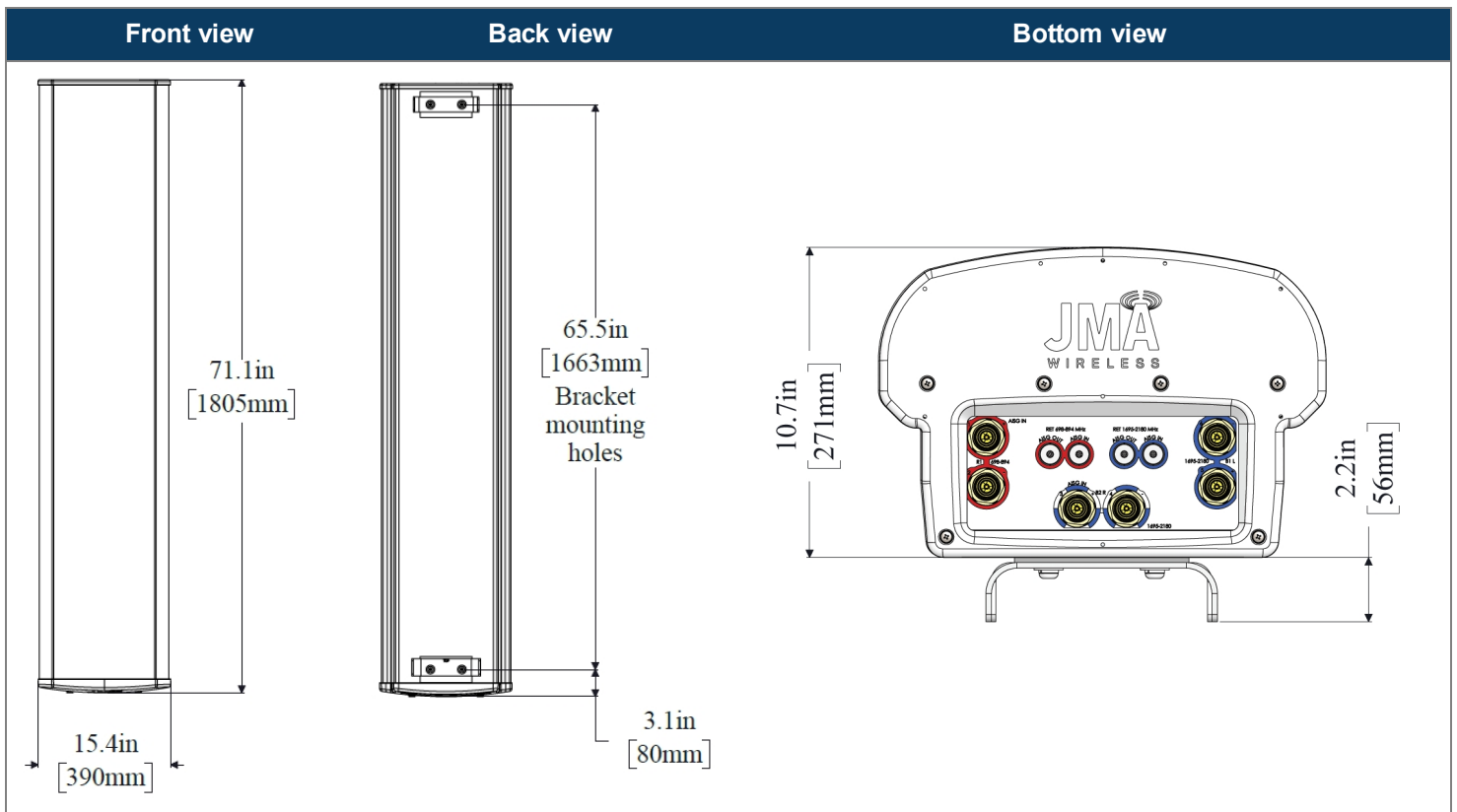
LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

The LTE radio automatically selects the best throughput based on measured SINR.

Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
	Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees ¹	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

¹ Typical value over frequency and tilt

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6



Ordering information	
Antenna model	Description
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

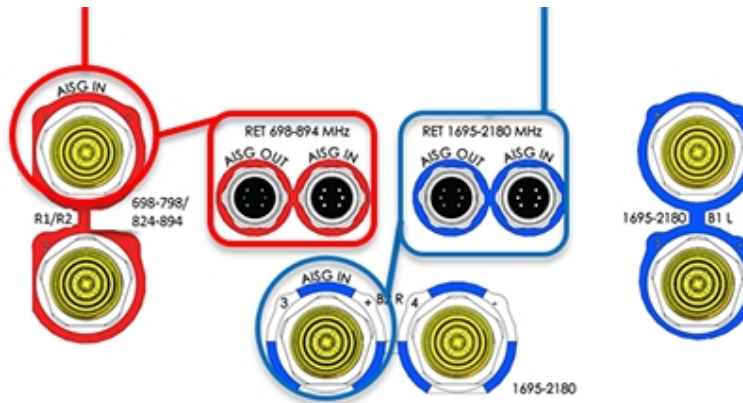
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6



Array topology

3 sets of radiating arrays R1/R2: 698-894 MHz B1: 1695-2180 MHz B2: 1695-2180 MHz	<table border="1"> <thead> <tr> <th>Band</th> <th>RF port</th> </tr> </thead> <tbody> <tr> <td>1695-2180</td> <td>3-4</td> </tr> <tr> <td>698-894</td> <td>1-2</td> </tr> <tr> <td>1695-2180</td> <td>5-6</td> </tr> </tbody> </table>	Band	RF port	1695-2180	3-4	698-894	1-2	1695-2180	5-6	
	Band	RF port								
1695-2180	3-4									
698-894	1-2									
1695-2180	5-6									

ATTACHMENT 3

	General	Power	Density					
Site Name: Meriden E								
Tower Height: Verizon @ 66ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*Tower Owner			70	152	0.0060	0.2000	0.30%	
VZW 700	4	623	66	0.0051	751	0.5007	4.11%	
VZW CDMA	2	361	66	0.0030	877.26	0.5848	1.02%	
VZW Cellular	4	623	66	0.0051	874	0.5827	3.53%	
VZW PCS	4	1462	66	0.0121	1975	1.0000	4.83%	
VZW AWS	4	1530	66	0.0126	2120	1.0000	5.05%	
VZW CBAND	4	6531	66	0.0539	3730.08	1.0000	21.57%	
								40.41%
* Source: Siting Council								

ATTACHMENT 4

Report Date: March 25, 2021

Client: On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
Attn: David Weinpahl, P.E.
(201) 456-4624
dweinpahl@onaireng.com

Structure: Existing 45-ft Self Support Tower on 24-ft Building
Site Name: Meriden E CT
Site Address: 38 Elm Street
City, County, State: Meriden, New Haven County, CT
Latitude, Longitude: 41.534265°, -72.796485°

PJF Project: A42921-0003.001.8700

Paul J. Ford and Company is pleased to submit this “**Structural Analysis Report**” to determine the tower stress level.

Analysis Criteria:

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph (converted to an equivalent 97 mph nominal 3-second gust wind speed per Section 1609.3.1 for use with TIA-222 G) as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Proposed Appurtenance Loads:

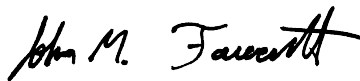
The structure was analyzed with the proposed loading configuration shown in Table 1 combined with the other considered equipment shown in Table 2 of this report.

Summary of Analysis Results:

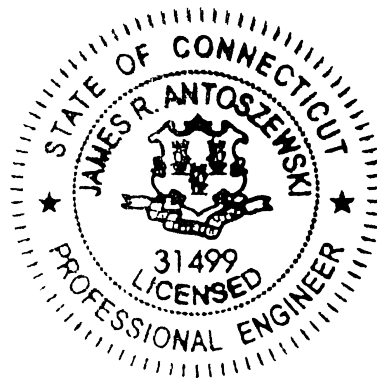
Existing Structure: Acceptable – 55.7%
Existing Foundation: Pass – 62.6%

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and On Air Engineering, LLC. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully Submitted by:
Paul J. Ford and Company



John M. Fawcett, E.I.
Structural Designer
jfawcett@pauljford.com



03/25/2021

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1) INTRODUCTION

This tower is a 45 ft self-support tower on a 24ft rooftop designed by Rohn.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-G
Risk Category:	II
Wind Speed (Nominal):	97 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	0.75 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
65.0	66.0	3	-	Sub6 Antenna w/ Mount Pipe	1 15	2 1-1/4
		2	antel	LPA-80063/6CF w/ Mount Pipe		
		4	antel	LPA-80080/6CF w/ Mount Pipe		
		3	jma wireless	91900314-02 SBS Bracket		
		6	jma wireless	MX06FRO660-03 w/ Mount Pipe		
		1	raycap	RHSDC-3315-PF-48		
		3	samsung	B2/B66A RRH-BR049		
	3	samsung	B5/B13 RRH-BR04C			
65.0		3	tower mounts	(3) 20' T-Frame		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
Site Photos	On Air, 12/5/2018	-	On Air Engineering
Tower Structural Analysis Report	Natcomm, 4/20/2010	-	
Tower Structural Analysis Report	Centek, 7/30/2015	-	
Construction Drawings	On Air Engineering, 1/28/21	-	
RFDS	Verizon, FUZE ID 16227588, 1/20/2021	-	
Mount Structural Analysis Report	Maser, 20777261A, 1/27/2021	-	

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were built and maintained in accordance with the manufacturer's specifications.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) At the time of analysis, the original foundation drawings or a foundation mapping was not available. However, the 2010 tower structural analysis report, referenced in Table 3, provided the base design reactions from the original drawings. Using these reactions, we have compared them to the reactions of this analysis. By doing this we have assumed the existing foundation was properly designed to handle the loading from the original tower design.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail	
T1	69 - 64	Leg	Pipe 2.375" x 0.218" (2 EH)	3	-4.52	42.47	10.6	Pass	
T2	64 - 44	Leg	Pipe 2.375" x 0.218" (2 EH)	15	-23.31	49.90	46.7	Pass	
T3	44 - 24	Leg	Pipe 2.875" x 0.276" (2.5 EH)	48	-40.77	74.43	54.8	Pass	
T1	69 - 64	Diagonal	L 1.5 x 1.5 x 3/16	7	-0.94	4.73	19.9 20.5 (b)	Pass	
T2	64 - 44	Diagonal	L 1.5 x 1.5 x 3/16	19	-2.68	5.42	49.4 55.7 (b)	Pass	
T3	44 - 24	Diagonal	L 1.75 x 1.75 x 3/16	55	-2.10	5.09	41.2	Pass	
T1	69 - 64	Top Girt	L 1.5 x 1.5 x 3/16	4	-0.57	1.90	29.9	Pass	
T3	44 - 24	Top Girt	L 1.5 x 1.5 x 3/16	49	-0.08	1.90	4.2	Pass	
							Summary		
							Leg (T3)	54.8	Pass
							Diagonal (T2)	55.7	Pass
							Top Girt (T1)	29.9	Pass
							Bolt Checks	55.7	Pass
							Rating =	55.7	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Base Foundation (Compared w/ Design Loads)	24	62.6	Pass

Structure Rating (max from all components) =	62.6%²
---	--------------------------

Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Foundation capacity determined by comparing analysis reactions to original design reactions.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

Tower Input Data

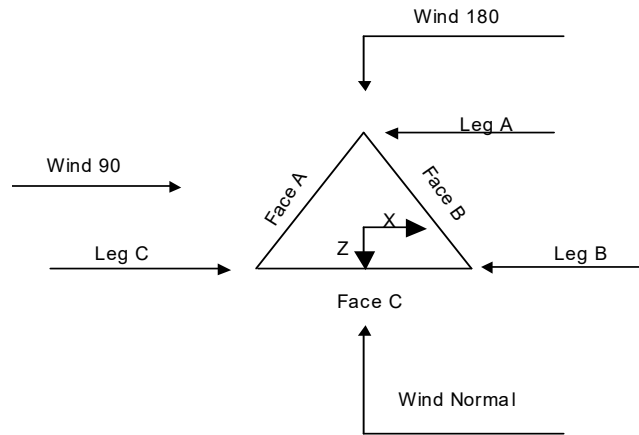
The main tower is a 3x free standing tower with an overall height of 69.00 ft above the ground line.
 The base of the tower is set at an elevation of 24.00 ft above the ground line.
 The face width of the tower is 6.52 ft at the top and 8.56 ft at the base.
 This tower is designed using the TIA-222-G standard.

The following design criteria apply:

- 1) Tower is located in New Haven County, Connecticut.
- 2) ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).
- 3) Basic wind speed of 97.00 mph.
- 4) Structure Class II.
- 5) Exposure Category C.
- 6) Topographic Category 1.
- 7) Crest Height 0.00 ft.
- 8) Nominal ice thickness of 0.75 in.
- 9) Ice thickness is considered to increase with height.
- 10) Ice density of 56.00 pcf.
- 11) A wind speed of 50.00 mph is used in combination with ice.
- 12) Deflections calculated using a wind speed of 60.00 mph.
- 13) A non-linear (P-delta) analysis was used.
- 14) Pressures are calculated at each section.
- 15) Stress ratio used in tower member design is 1.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile ✓ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section ✓ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area ✓ Use Clear Spans For KL/r Retension Guys To Initial Tension Bypass Mast Stability Checks Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules ✓ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque ✓ Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption <div style="background-color: #e0e0e0; text-align: center; padding: 2px;">Poles</div> Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
--	---	---



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	69.00-64.00			6.52	1	5.00
T2	64.00-44.00			6.52	1	20.00
T3	44.00-24.00			6.56	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	69.00-64.00	5.00	X Brace	No	No	0.00	0.00
T2	64.00-44.00	4.00	X Brace	No	No	0.00	0.00
T3	44.00-24.00	5.00	X Brace	No	No	0.00	0.00

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 69.00-64.00	Pipe	Pipe 2.375" x 0.218" (2 EH)	A572-50 (50 ksi)	Single Angle	L 1.5 x 1.5 x 3/16	A36 (36 ksi)
T2 64.00-44.00	Pipe	Pipe 2.375" x 0.218" (2 EH)	A572-50 (50 ksi)	Single Angle	L 1.5 x 1.5 x 3/16	A36 (36 ksi)
T3 44.00-24.00	Pipe	Pipe 2.875" x 0.276" (2.5 EH)	A572-50 (50 ksi)	Single Angle	L 1.75 x 1.75 x 3/16	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 69.00-64.00	Single Angle	L 1.5 x 1.5 x 3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T3 44.00-24.00	Single Angle	L 1.5 x 1.5 x 3/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 69.00-64.00	0.00	0.00	A36 (36 ksi)	1.03	1	1.1	36.00	36.00	36.00
T2 64.00-44.00	0.00	0.00	A36 (36 ksi)	1.03	1	1.1	36.00	36.00	36.00
T3 44.00-24.00	0.00	0.00	A36 (36 ksi)	1.03	1	1.1	36.00	36.00	36.00

Tower Section Geometry (cont'd)

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors ¹									
			Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace		
											X Y	X Y
T1 69.00-64.00	Yes	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 64.00-44.00	Yes	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3 44.00-24.00	Yes	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 69.00-64.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T2 64.00-44.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T3 44.00-24.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 69.00-64.00	Flange	0.63 A325N	4	0.50 A325N	1	0.50 A325N	1	0.00 A325N	0	0.63 A325N	0	0.00 A325N	0	0.63 A325N	0
T2 64.00-44.00	Flange	0.63 A325N	4	0.50 A325N	1	0.00 A325N	0	0.00 A325N	0	0.63 A325N	0	0.00 A325N	0	0.63 A325N	0
T3 44.00-24.00	Flange	0.63 A325N	4	0.50 A325N	1	0.50 A325N	1	0.00 A325N	0	0.63 A325N	0	0.00 A325N	0	0.63 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	# Row	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1/4" x 2-1/2" Climb Ladder Rail	B	No	No	Af (CaAa)	24.00 - 29.00	-7.00	0	2	2	12.00 0.25	0.25		2.12
3/4" ladder rung (12" long 12" oc)	B	No	No	Ar (CaAa)	24.00 - 29.00	-7.00	0	1	1	0.75	0.75		1.50
Safety Line 3/8 *	B	No	No	Ar (CaAa)	24.00 - 29.00	-11.00	0	1	1	0.38	0.38		0.22
1.5" flat Cable Ladder Rail	B	No	No	Af (CaAa)	66.50 - 24.00	0.00	0	2	2	42.00 1.50	1.50		1.80
AVA6-50(1-1/4")	B	No	No	Ar (CaAa)	64.00 - 24.00	0.00	0	6	6	0.75 0.50	1.56		0.45
MLCH 12/24 LOW INDUCTION(2) ***	B	No	No	Ar (CaAa)	64.00 - 24.00	2.00	0	1	1	2.02	2.02		3.04

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
(3) 20' T-Frame	C	None		0.000	65.00	No Ice	37.91	1.81
						1/2" Ice	53.84	2.44
						1" Ice	69.77	3.07
SitePro1 STK-U Stiff Arm	A	From Leg	2.00 0.00 0.00	0.000	65.00	No Ice	2.97	0.06
						1/2" Ice	4.25	0.08
						1" Ice	5.54	0.11
SitePro1 STK-U Stiff Arm	B	From Leg	2.00 0.00 0.00	0.000	65.00	No Ice	2.97	0.06
						1/2" Ice	4.25	0.08
						1" Ice	5.54	0.11

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA}		Weight K
			Horz Lateral ft ft ft	Vert ft ft ft			Front ft ²	Side ft ²	
SitePro1 STK-U Stiff Arm	C	From Leg	2.00 0.00 0.00	0.000	65.00	1" Ice			
						No Ice	2.97	2.97	0.06
						1/2"	4.25	4.25	0.08
3 Sch 40 X 6' Mount Pipe	A	From Leg	4.00 0.00 1.00	0.000	65.00	Ice	5.54	5.54	0.11
						1" Ice			
						No Ice	1.93	1.93	0.06
3 Sch 40 X 6' Mount Pipe	B	From Leg	4.00 0.00 1.00	0.000	65.00	1/2"	2.29	2.29	0.07
						Ice	2.67	2.67	0.09
						1" Ice			
3 Sch 40 X 6' Mount Pipe	C	From Leg	4.00 0.00 1.00	0.000	65.00	No Ice	1.93	1.93	0.06
						1/2"	2.29	2.29	0.07
						Ice	2.67	2.67	0.09
(2) LPA-80063/6CF w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.000	65.00	1" Ice			
						No Ice	9.83	10.22	0.05
						1/2"	10.40	11.38	0.14
(2) LPA-80080/6CF w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.000	65.00	Ice	10.93	12.27	0.25
						1" Ice			
						No Ice	4.56	10.26	0.05
(2) LPA-80080/6CF w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.000	65.00	1/2"	5.11	11.43	0.11
						Ice	5.61	12.31	0.19
						1" Ice			
RHSDC-3315-PF-48	C	From Face	0.00 0.00 1.00	0.000	65.00	No Ice	3.71	2.19	0.03
						1/2"	3.95	2.39	0.06
						Ice	4.20	2.61	0.10
samsung B5/B13 RRH	A	From Leg	4.00 0.00 1.00	0.000	65.00	1" Ice			
						No Ice	1.88	1.01	0.07
						1/2"	2.05	1.14	0.09
samsung B5/B13 RRH	B	From Leg	4.00 0.00 1.00	0.000	65.00	Ice	2.22	1.28	0.11
						1" Ice			
						No Ice	1.88	1.01	0.07
samsung B5/B13 RRH	C	From Leg	4.00 0.00 1.00	0.000	65.00	1/2"	2.05	1.14	0.09
						Ice	2.22	1.28	0.11
						1" Ice			
samsung B2/B66A RRH	A	From Leg	4.00 0.00 1.00	0.000	65.00	No Ice	1.88	1.01	0.07
						1/2"	2.05	1.14	0.09
						Ice	2.22	1.28	0.11
samsung B2/B66A RRH	B	From Leg	4.00 0.00 1.00	0.000	65.00	1" Ice			
						No Ice	1.88	1.01	0.07
						1/2"	2.05	1.14	0.09
samsung B2/B66A RRH	C	From Leg	4.00 0.00 1.00	0.000	65.00	Ice	2.22	1.28	0.11
						1" Ice			
						No Ice	1.88	1.01	0.07
(2) MX06FRO660-03_TIA w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.000	65.00	1/2"	2.05	1.14	0.09
						Ice	2.22	1.28	0.11
						1" Ice			
(2) MX06FRO660-03_TIA w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.000	65.00	No Ice	10.11	8.99	0.10
						1/2"	10.68	10.15	0.19
						Ice	11.22	11.03	0.29
(2) MX06FRO660-03_TIA w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.000	65.00	1" Ice			
						No Ice	10.11	8.99	0.10
						1/2"	10.68	10.15	0.19
(2) MX06FRO660-03_TIA w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.000	65.00	Ice	11.22	11.03	0.29
						1" Ice			
						No Ice	10.11	8.99	0.10

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
(2) MX06FRO660-03_TIA w/ Mount Pipe	C	From Leg	4.00	0.000	65.00	No Ice	10.11	8.99	0.10
			0.00			1/2"	10.68	10.15	0.19
			1.00			Ice	11.22	11.03	0.29
jma 91900314-02 SBS Bracket	A	From Leg	4.00	0.000	65.00	No Ice	0.00	0.00	0.03
			0.00			1/2"	0.00	0.00	0.05
			1.00			Ice	0.00	0.00	0.07
jma 91900314-02 SBS Bracket	B	From Leg	4.00	0.000	65.00	No Ice	0.00	0.00	0.03
			0.00			1/2"	0.00	0.00	0.05
			1.00			Ice	0.00	0.00	0.07
jma 91900314-02 SBS Bracket	C	From Leg	4.00	0.000	65.00	No Ice	0.00	0.00	0.03
			0.00			1/2"	0.00	0.00	0.05
			1.00			Ice	0.00	0.00	0.07
Sub6 Antenna w/ Mount Pipe	A	From Leg	4.00	0.000	65.00	No Ice	4.23	2.88	0.09
			0.00			1/2"	4.56	3.30	0.13
			1.00			Ice	4.89	3.75	0.18
Sub6 Antenna w/ Mount Pipe	B	From Leg	4.00	0.000	65.00	No Ice	4.23	2.88	0.09
			0.00			1/2"	4.56	3.30	0.13
			1.00			Ice	4.89	3.75	0.18
Sub6 Antenna w/ Mount Pipe	C	From Leg	4.00	0.000	65.00	No Ice	4.23	2.88	0.09
			0.00			1/2"	4.56	3.30	0.13
			1.00			Ice	4.89	3.75	0.18

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice

Comb. No.	Description
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	41.96	4.62	-2.67
	Max. H _x	18	41.96	4.62	-2.67
	Max. H _z	7	-36.52	-4.17	2.41
	Min. Vert	7	-36.52	-4.17	2.41
	Min. H _x	7	-36.52	-4.17	2.41
	Min. H _z	18	41.96	4.62	-2.67
Leg B	Max. Vert	10	41.43	-4.43	-2.70
	Max. H _x	23	-35.62	3.99	2.44
	Max. H _z	23	-35.62	3.99	2.44
	Min. Vert	23	-35.62	3.99	2.44
	Min. H _x	10	41.43	-4.43	-2.70
	Min. H _z	10	41.43	-4.43	-2.70
Leg A	Max. Vert	2	42.75	0.12	5.33
	Max. H _x	20	2.60	0.86	0.16
	Max. H _z	2	42.75	0.12	5.33
	Min. Vert	15	-36.96	-0.11	-4.81
	Min. H _x	9	1.95	-0.86	0.12
	Min. H _z	15	-36.96	-0.11	-4.81

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturing Moment, M _x kip-ft	Overturing Moment, M _z kip-ft	Torque kip-ft
Dead Only	6.34	0.00	0.00	-0.38	-0.76	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	7.61	-0.00	-8.95	-298.23	-0.91	1.70
0.9 Dead+1.6 Wind 0 deg - No Ice	5.70	0.00	-8.95	-297.97	-0.68	1.70
1.2 Dead+1.6 Wind 30 deg - No Ice	7.60	4.30	-7.72	-257.22	-142.56	1.33
0.9 Dead+1.6 Wind 30 deg - No Ice	5.70	4.30	-7.72	-256.98	-142.26	1.33
1.2 Dead+1.6 Wind 60 deg - No Ice	7.60	7.36	-4.41	-147.57	-244.28	0.11

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
0.9 Dead+1.6 Wind 60 deg - No Ice	5.70	7.36	-4.41	-147.38	-243.94	0.11
1.2 Dead+1.6 Wind 90 deg - No Ice	7.60	8.60	-0.00	-0.46	-284.20	-1.14
0.9 Dead+1.6 Wind 90 deg - No Ice	5.70	8.60	-0.00	-0.35	-283.84	-1.14
1.2 Dead+1.6 Wind 120 deg - No Ice	7.60	7.48	4.47	148.43	-247.37	-1.60
0.9 Dead+1.6 Wind 120 deg - No Ice	5.70	7.48	4.47	148.47	-247.02	-1.60
1.2 Dead+1.6 Wind 150 deg - No Ice	7.60	3.92	7.06	242.49	-134.58	-0.88
0.9 Dead+1.6 Wind 150 deg - No Ice	5.70	3.92	7.06	242.48	-134.28	-0.88
1.2 Dead+1.6 Wind 180 deg - No Ice	7.60	0.00	8.54	288.23	-0.91	-1.70
0.9 Dead+1.6 Wind 180 deg - No Ice	5.70	0.00	8.54	288.21	-0.68	-1.70
1.2 Dead+1.6 Wind 210 deg - No Ice	7.60	-4.30	7.72	256.31	140.73	-1.33
0.9 Dead+1.6 Wind 210 deg - No Ice	5.70	-4.30	7.72	256.30	140.89	-1.33
1.2 Dead+1.6 Wind 240 deg - No Ice	7.60	-7.71	4.61	151.19	250.33	-0.11
0.9 Dead+1.6 Wind 240 deg - No Ice	5.70	-7.71	4.61	151.23	250.43	-0.11
1.2 Dead+1.6 Wind 270 deg - No Ice	7.60	-8.60	-0.00	-0.46	282.38	1.14
0.9 Dead+1.6 Wind 270 deg - No Ice	5.70	-8.60	-0.00	-0.35	282.47	1.14
1.2 Dead+1.6 Wind 300 deg - No Ice	7.60	-7.13	-4.27	-144.81	237.68	1.60
0.9 Dead+1.6 Wind 300 deg - No Ice	5.70	-7.13	-4.27	-144.62	237.79	1.60
1.2 Dead+1.6 Wind 330 deg - No Ice	7.60	-3.92	-7.06	-243.40	132.76	0.88
0.9 Dead+1.6 Wind 330 deg - No Ice	5.70	-3.92	-7.06	-243.17	132.92	0.88
1.2 Dead+1.0 Ice	21.65	0.00	0.00	-3.66	-4.36	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice	21.65	0.00	-2.51	-86.00	-4.37	0.60
1.2 Dead+1.0 Wind 30 deg+1.0 Ice	21.65	1.25	-2.22	-75.73	-44.85	0.45
1.2 Dead+1.0 Wind 60 deg+1.0 Ice	21.65	2.20	-1.29	-45.57	-74.98	0.02
1.2 Dead+1.0 Wind 90 deg+1.0 Ice	21.65	2.51	0.00	-3.68	-85.32	-0.41
1.2 Dead+1.0 Wind 120 deg+1.0 Ice	21.65	2.13	1.26	37.49	-73.72	-0.58
1.2 Dead+1.0 Wind 150 deg+1.0 Ice	21.65	1.16	2.05	64.80	-42.78	-0.45
1.2 Dead+1.0 Wind 180 deg+1.0 Ice	21.65	0.00	2.46	77.49	-4.37	-0.60
1.2 Dead+1.0 Wind 210 deg+1.0 Ice	21.65	-1.25	2.22	68.38	36.10	-0.45
1.2 Dead+1.0 Wind 240 deg+1.0 Ice	21.65	-2.24	1.32	38.80	67.24	-0.02
1.2 Dead+1.0 Wind 270 deg+1.0 Ice	21.65	-2.51	0.00	-3.68	76.58	0.41
1.2 Dead+1.0 Wind 300 deg+1.0 Ice	21.65	-2.09	-1.23	-44.26	63.97	0.58
1.2 Dead+1.0 Wind 330 deg+1.0 Ice	21.65	-1.16	-2.05	-72.15	34.03	0.45
Dead+Wind 0 deg - Service	6.34	0.00	-2.14	-71.57	-0.76	0.41
Dead+Wind 30 deg - Service	6.34	1.03	-1.85	-61.76	-34.62	0.32
Dead+Wind 60 deg - Service	6.34	1.76	-1.05	-35.55	-58.94	0.03
Dead+Wind 90 deg - Service	6.34	2.06	0.00	-0.38	-68.48	-0.27
Dead+Wind 120 deg - Service	6.34	1.79	1.07	35.21	-59.68	-0.38

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead+Wind 150 deg - Service	6.34	0.94	1.69	57.69	-32.71	-0.21
Dead+Wind 180 deg - Service	6.34	0.00	2.04	68.63	-0.76	-0.41
Dead+Wind 210 deg - Service	6.34	-1.03	1.85	61.00	33.10	-0.32
Dead+Wind 240 deg - Service	6.34	-1.84	1.10	35.87	59.30	-0.03
Dead+Wind 270 deg - Service	6.34	-2.06	0.00	-0.38	66.96	0.27
Dead+Wind 300 deg - Service	6.34	-1.70	-1.02	-34.89	56.27	0.38
Dead+Wind 330 deg - Service	6.34	-0.94	-1.69	-58.46	31.19	0.21

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	69 - 64	0.34	39	0.051	0.003
T2	64 - 44	0.29	39	0.051	0.003
T3	44 - 24	0.08	39	0.030	0.002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
65.00	(3) 20' T-Frame	39	0.30	0.051	0.003	104304

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	69 - 64	1.41	2	0.213	0.011
T2	64 - 44	1.19	2	0.213	0.011
T3	44 - 24	0.33	2	0.126	0.007

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
65.00	(3) 20' T-Frame	2	1.23	0.214	0.011	25011

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	69	Leg	A325N	0.63	4	0.38	20.71	0.018	1	Bolt Tension
		Diagonal	A325N	0.50	1	0.96	4.69	0.205	1	Member Block Shear
		Top Girt	A325N	0.50	1	0.54	4.69	0.116	1	Member Block Shear
T2	64	Leg	A325N	0.63	4	4.85	20.71	0.234	1	Bolt Tension
		Diagonal	A325N	0.50	1	2.61	4.69	0.557	1	Member Block Shear
T3	44	Leg	A325N	0.63	4	8.80	20.71	0.425	1	Bolt Tension
		Diagonal	A325N	0.50	1	2.03	5.71	0.355	1	Member Block Shear
		Top Girt	A325N	0.50	1	0.08	7.95	0.010	1	Bolt Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	69 - 64	Pipe 2.375" x 0.218" (2 EH)	5.00	5.00	78.3 K=1.00	1.48	-4.52	42.47	0.106 ¹
T2	64 - 44	Pipe 2.375" x 0.218" (2 EH)	20.00	4.00	62.6 K=1.00	1.48	-23.31	49.90	0.467 ¹
T3	44 - 24	Pipe 2.875" x 0.276" (2.5 EH)	20.03	5.01	65.0 K=1.00	2.25	-40.77	74.43	0.548 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	69 - 64	L 1.5 x 1.5 x 3/16	8.22	3.88	158.7 K=1.00	0.53	-0.94	4.73	0.199 ¹
T2	64 - 44	L 1.5 x 1.5 x 3/16	7.68	3.62	148.2 K=1.00	0.53	-2.68	5.42	0.494 ¹
T3	44 - 24	L 1.75 x 1.75 x 3/16	9.70	4.75	166.1 K=1.00	0.62	-2.10	5.09	0.412 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	69 - 64	L 1.5 x 1.5 x 3/16	6.52	6.11	250.1 K=1.00	0.53	-0.57	1.90	0.299 ¹
T3	44 - 24	KL/R > 200 (C) - 4 L 1.5 x 1.5 x 3/16 KL/R > 200 (C) - 49	6.56	6.12	250.1 K=1.00	0.53	-0.08	1.90	0.042 ¹

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	69 - 64	Pipe 2.375" x 0.218" (2 EH)	5.00	5.00	78.3	1.48	0.16	66.48	0.002 ¹
T2	64 - 44	Pipe 2.375" x 0.218" (2 EH)	20.00	4.00	62.6	1.48	19.41	66.48	0.292 ¹
T3	44 - 24	Pipe 2.875" x 0.276" (2.5 EH)	20.03	5.01	65.0	2.25	35.22	101.41	0.347 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	69 - 64	L 1.5 x 1.5 x 3/16	8.22	3.88	104.7	0.31	0.96	13.38	0.072 ¹
T2	64 - 44	L 1.5 x 1.5 x 3/16	7.68	3.62	98.0	0.31	2.61	13.38	0.195 ¹
T3	44 - 24	L 1.75 x 1.75 x 3/16	8.86	4.34	99.3	0.38	2.03	16.44	0.123 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

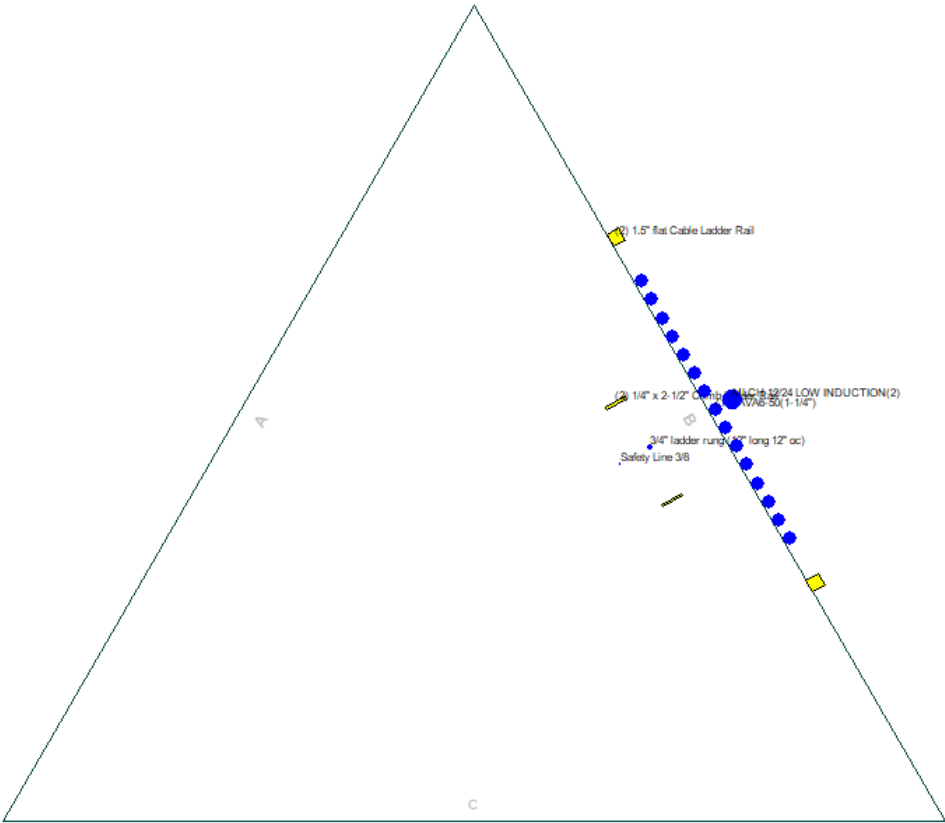
Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	69 - 64	L 1.5 x 1.5 x 3/16	6.52	6.11	166.1	0.31	0.54	13.38	0.041 ¹
T3	44 - 24	L 1.5 x 1.5 x 3/16	6.56	6.12	166.2	0.31	0.03	13.38	0.002 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
T1	69 - 64	Leg	Pipe 2.375" x 0.218" (2 EH)	3	-4.52	42.47	10.6	Pass	
T2	64 - 44	Leg	Pipe 2.375" x 0.218" (2 EH)	15	-23.31	49.90	46.7	Pass	
T3	44 - 24	Leg	Pipe 2.875" x 0.276" (2.5 EH)	48	-40.77	74.43	54.8	Pass	
T1	69 - 64	Diagonal	L 1.5 x 1.5 x 3/16	7	-0.94	4.73	19.9	Pass	
							20.5 (b)		
T2	64 - 44	Diagonal	L 1.5 x 1.5 x 3/16	19	-2.68	5.42	49.4	Pass	
							55.7 (b)		
T3	44 - 24	Diagonal	L 1.75 x 1.75 x 3/16	55	-2.10	5.09	41.2	Pass	
T1	69 - 64	Top Girt	L 1.5 x 1.5 x 3/16	4	-0.57	1.90	29.9	Pass	
T3	44 - 24	Top Girt	L 1.5 x 1.5 x 3/16	49	-0.08	1.90	4.2	Pass	
							Summary		
							Leg (T3)	54.8	Pass
							Diagonal (T2)	55.7	Pass
							Top Girt (T1)	29.9	Pass
							Bolt	55.7	Pass
							Checks		
							RATING =	55.7	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Job Number:	42921-0003.001.8700
Engineer:	JMF
Date:	3/25/2021
Site Name:	Meriden E CT
Site Number:	
Client Project:	
Client Project 1:	

Monopole and Tower Foundation Comparison Tool (Version v1.5 - Effective Date 04/1/2020)

Structure Type:	Self-Support Tower
Current Analysis Code:	TIA-222-G
Original Design Code:	TIA-222-F
Manufacturer:	Rohn
Design Drawing Number:	-
Design Drawing Date:	-

Compare Base Shear
 Compare Base Axial Compression

Reference File Information

Manufacturer:	Natcomm, Inc.
Analysis #:	10001-CO13
Analysis Date:	40288.00

Base Reaction	Original Design (kips, kip-ft)	Adjusted Original Design	Current Analysis (kips, kip-ft)	Reactions Ratio	Result
Compression (kips)	50.90	68.72	43.00	62.58%	Sufficient
Tension (kips)	46.30	62.51	37.00	59.20%	Sufficient
Total Shear (kips)	10.70	14.45	9.00	62.31%	Sufficient
OTM (kip-ft)	356.30	481.01	298.00	61.95%	Sufficient

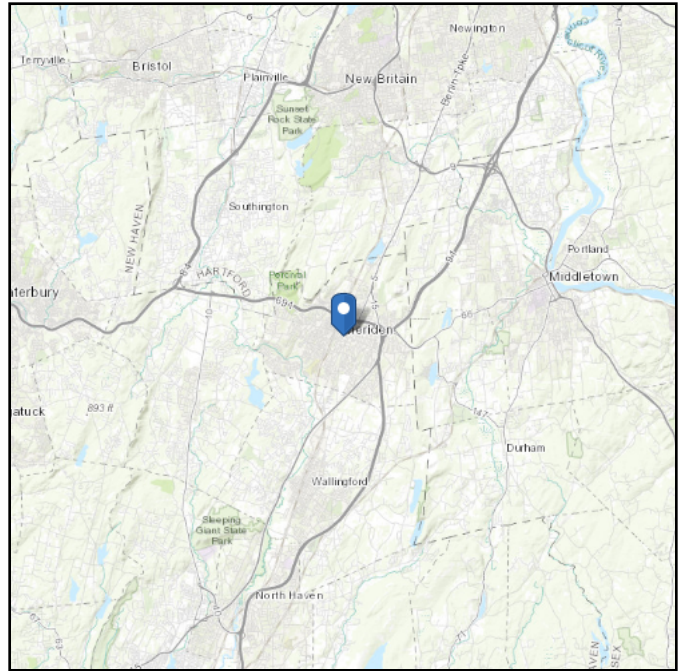
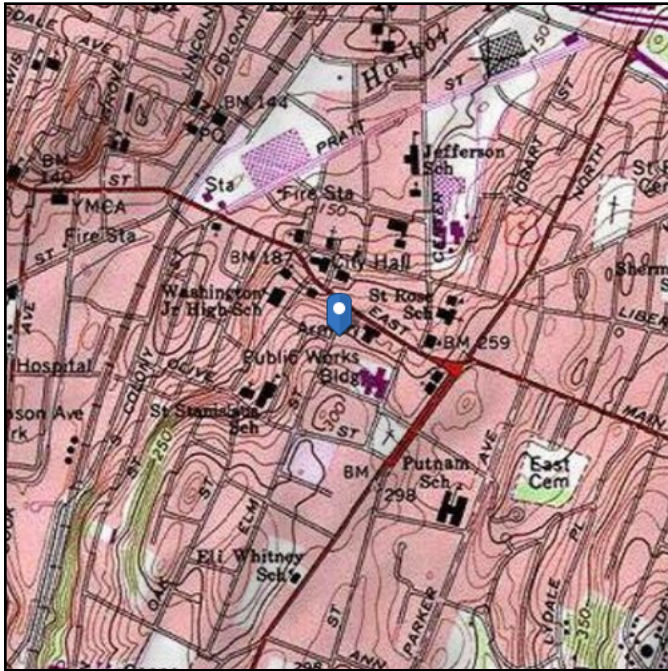
Notes: 1. The original tower design was completed in accordance with the TIA-222-F standard. Per section 15.5.1 of the TIA-222-G standard, the reactions from the original design shall be multiplied by 1.35 for comparison to the reactions from this analysis.

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 253.14 ft (NAVD 88)
Latitude: 41.534265
Longitude: -72.796485



Wind

Results:	77 Vmph
Wind Speed:	124 Vmph
10-year MRI	77 Vmph
25-year MRI	87 Vmph
50-year MRI	93 Vmph
100-year MRI	101 Vmph

125 Vmph REQUIRED BY JURISDICTION

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014

Date Accessed: Wed Dec 12 2018

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

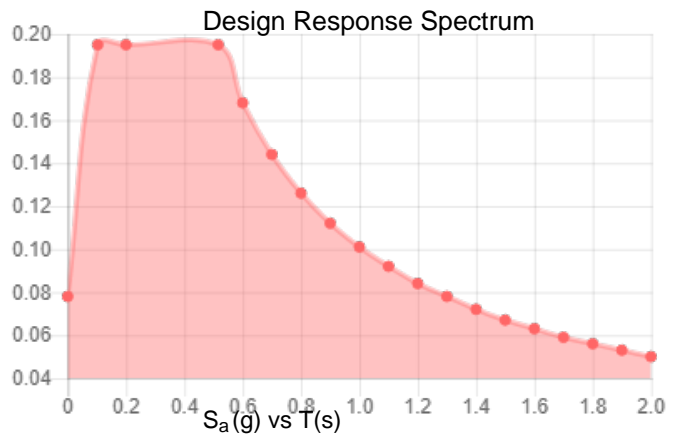
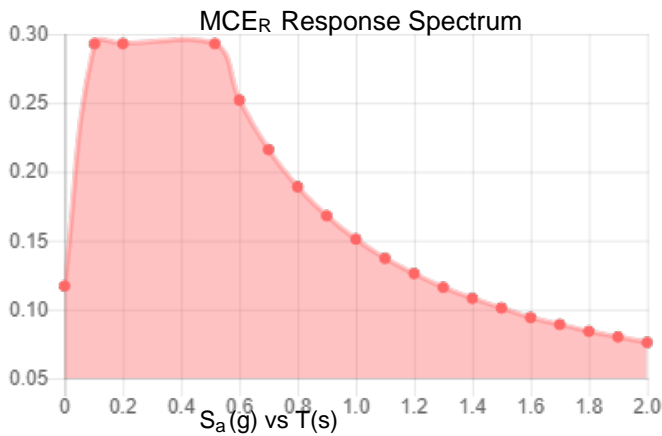
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.183	S_{DS} :	0.195
S_1 :	0.063	S_{D1} :	0.101
F_a :	1.600	T_L :	6.000
F_v :	2.400	PGA :	0.094
S_{MS} :	0.293	PGA _M :	0.150
S_{M1} :	0.151	F _{PGA} :	1.600
		I_e :	1

Seismic Design Category B



Data Accessed:

Wed Dec 12 2018

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

Date Accessed: Wed Dec 12 2018

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

STANDARD CONDITIONS FOR FURNISHING OF PROFESSIONAL ENGINEERING SERVICES ON
EXISTING STRUCTURES BY PAUL J. FORD AND COMPANY

- 1) Paul J. Ford and Company has not made a field inspection to verify the tower member sizes or the antenna/coax loading. If the existing conditions are not as represented on these drawings, we should be contacted immediately to evaluate the significance of the deviation.
- 2) No allowance was made for any damaged, missing, or rusted members. The analysis of this tower assumes that no physical deterioration has occurred in any of the structural components of the tower and that all the tower members have the same load carrying capacity as the day the tower was erected.
- 3) It is not possible to have all the detailed information to perform a thorough analysis of every structural sub-component of an existing tower. The structural analysis by Paul J. Ford and Company verifies the adequacy of the main structural members of the tower. Paul J. Ford and Company provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc.
- 4) The structural integrity of the existing tower foundation can only be verified if exact foundation sizes are known. Paul J. Ford and Company will not accept any responsibility for the adequacy of the existing foundations unless the foundation sizes provided
- 5) This tower has been analyzed according to the minimum design wind loads recommended by the Telecommunications Industry Association Standard ANSI/TIA-222-G. If the owner or local or state agencies require a higher design wind load, Paul J. Ford and Company should be made aware of this requirement.
- 6) The enclosed sketches are a schematic representation of the tower that we have analyzed. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions and for the proper fit and clearance in the field.
- 7) Miscellaneous items such as antenna mounts etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Date: **April 20, 2021**

Andrew Leone
Verizon Wireless
118 Flanders Road
Westborough, MA 01581

Paul J. Ford & Company
250 East Broad Street, Suite 600
Columbus, OH 43215
614.221.6679

Re: Meriden E CT – L-Sub6/VZS01 Verizon Project

Structure: Existing 45-ft Self Support Tower on 24-ft Building
Site Name: Meriden E CT
Site Address: 38 Elm Street
City, County, State: Meriden, New Haven County, CT
Latitude, Longitude: 41.534265°, -72.796485°

PJF Project: A42921-0003.001.8700

Dear Mr. Leone,

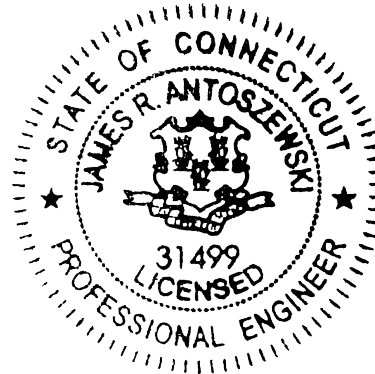
I am writing this letter to confirm that the Samsung 64T64R MMU antenna (referenced in the report as the Sub6 antenna) was used in Paul J. Ford & Company's Structural Analysis dated 3/25/2021 for the tower described above.

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and Verizon Wireless. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully submitted by:



Seth Tschanen, P.E.
Project Engineer
stschanen@pauljford.com



04/20/2021



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
gdulnik@maserconsulting.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10017687
Maser Consulting Connecticut Project #: 20777261A

May 27, 2021

Site Information

Site ID: 468199-VZW / Meriden East CT
Site Name: Meriden East CT
Carrier Name: Verizon Wireless
Address: 38 Elm Street
Meriden, Connecticut 06450
New Haven County
Latitude: 41.534265°
Longitude: -72.796485°

Structure Information

Tower Type: 71-Ft Self Support
Mount Type: 17.00-Ft Sector Frame

FUZE ID # 16227588

Analysis Results

Sector Frame: 96.2% Pass

*****Contractor PMI Requirements:**

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Carol Luengas



Digitally signed by Taqi Khawaja
Date: 2021.05.27 18:30:56-04'00'

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 324329, dated January 20, 2021
Mount Mapping Report	Tower Engineering Professionals, Site ID: 468199, dated October 22, 2020
Construction Drawings	On Air Engineering LLC., Site Name: MERIDEN E CT, dated November 20, 2020
Email Correspondence	Email with Andrew Leone, dated May 26, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 119 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 : 0.204 S_1 : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
65.00	66.00	2	Antel	LPA-80063/6CF	Retained
		4	Antel	LPA-80080/6CF	
		1	Raycap	RHSDC-3315-PF-48*	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	

* Equipment is flush mounted directly to the Self Support. It is not mounted on sector frame mounts and is not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Antenna Pipe</i>	48.5%	Pass
<i>Face Horizontal</i>	96.2%	Pass
<i>Standoff Horizontal</i>	65.9%	Pass
<i>Standoff Bracing</i>	12.2%	Pass
<i>End Plate</i>	50.1%	Pass
<i>Tieback</i>	10.2%	Pass
<i>Connection Check</i>	30.0%	Pass
Structure Rating – (Controlling Utilization of all Components)		96.2%

Recommendation:

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

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

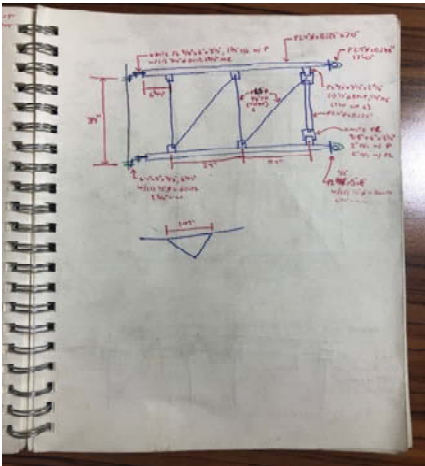
Attachments:

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

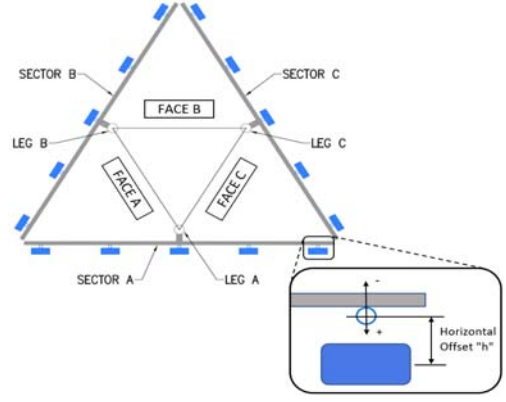


	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				N/A
Tower Owner:	ASHLEY HARRIMAN, LLC	Mapping Date:	10/22/2020	
Site Name:	Meriden East CT	Tower Type:	Self Support	
Site Number or ID:	468199	Tower Height (Ft.):	71	
Mapping Contractor:	TEP	Mount Elevation (Ft.):	66.5	

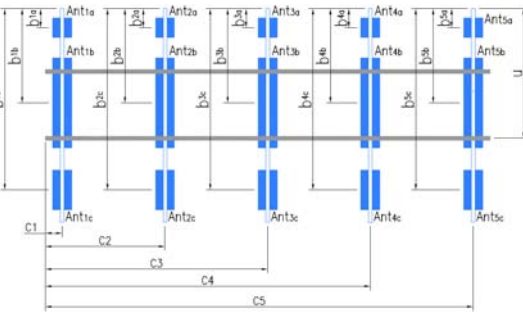
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is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



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4"Øx0.125"x60"	48.00	6.00	C1	2.4"Øx0.125"x60"	48.00	6.00
A2	2.4"Øx0.125"x126"	114.00	59.00	C2	2.4"Øx0.125"x126"	114.00	59.00
A3	2.4"Øx0.125"x73"	56.00	102.00	C3	2.4"Øx0.125"x73"	56.00	102.00
A4	2.4"Øx0.125"x58"	48.00	146.00	C4	2.4"Øx0.125"x58"	48.00	146.00
A5	2.4"Øx0.125"x60"	48.00	199.00	C5	2.4"Øx0.125"x60"	48.00	199.00
A6				C6			
B1	2.4"Øx0.125"x60"	48.00	6.00	D1			
B2	2.4"Øx0.125"x126"	114.00	59.00	D2			
B3	2.4"Øx0.125"x73"	56.00	102.00	D3			
B4	2.4"Øx0.125"x58"	48.00	146.00	D4			
B5	2.4"Øx0.125"x60"	48.00	199.00	D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.:							17.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							
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.							
Coax: (1)1.25FH, (1)1.5"Ø Hybrid (1)0.5FH							
Tower Face Width at Mount Elev. (ft.):		78		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):			

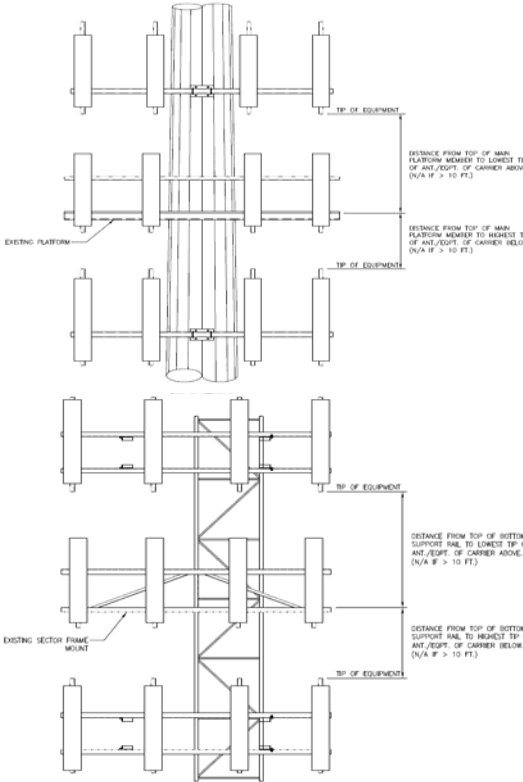


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}	LPA 80080-6CF-EDIN	11.20	4.50	71.10	see notes	66.4167	32.00	13.50	35.00	39
Ant _{1c}	FD9R6004-2C-BL	6.46	2.26	7.58		65.5	43.00	-4.00		40
Ant _{2a}										
Ant _{2b}	SBNHH-1D65B	11.85	7.09	72.87	see notes	67.4167	86.00	8.00	35.00	43
Ant _{2c}										
Ant _{3a}										
Ant _{3b}										
Ant _{3c}	B13 RRH4x30	11.97	7.18	21.20		66.9167	34.00	-7.00		49
Ant _{4a}										
Ant _{4b}	SBNHH-1D65B	11.85	7.09	72.87	see notes	67.4167	20.00	8.50	35.00	51
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	LPA 80080-6CF-EDIN	11.20	4.50	71.10	see notes	66.4167	32.00	13.50	35.00	53
Ant _{5c}										
Ant on Standoff	B4 RRH2x60-4R	10.60	5.70	36.60			17.00	-8.00		46
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B															
Sector A:	55.00	Deg	Leg A:	20.00	Deg	Ant _{1a}																	
Sector B:	175.00	Deg	Leg B:	140.00	Deg	Ant _{1b}	LPA 80063-6CF-EDIN	11.20	4.50	71.10	see notes	66.4167	32.00	12.00	150.00	62							
Sector C:	275.00	Deg	Leg C:	260.00	Deg	Ant _{1c}	FD9R6004-2C-BL	6.46	2.26	7.58		65.5	43.00	42.00		63							
Sector D:		Deg	Leg D:		Deg	Ant _{2a}																	
Climbing Facility Information						Ant _{2b}	SBNHH-1D65B	11.85	7.09	72.87	see notes	67.4167	86.00	86.00	150.00	65							
Location:		Deg			Deg	Ant _{2c}																	
Climbing Facility	Corrosion Type:				Deg	Ant _{3a}																	
	Access:				Deg	Ant _{3b}																	
	Condition:				Deg	Ant _{3c}	B13 RRH4x30	11.97	7.18	21.20		66.9167	34.00	34.00		70							
					Deg	Ant _{4a}																	
					Deg	Ant _{4b}	SBNHH-1D65B	11.85	7.09	72.87	see notes	67.4167	20.00	20.00	150.00	72							
					Deg	Ant _{4c}																	
					Deg	Ant _{5a}																	
					Deg	Ant _{5b}	LPA 80063-6CF-EDIN	11.20	4.50	71.10	see notes	66.4167	32.00	33.00	150.00	74							
					Deg	Ant _{5c}																	
					Deg	Ant on Standoff	B4 RRH2x60-4R	10.60	5.70	36.60			17.00	-8.00		68							
					Deg	Ant on Standoff																	
					Deg	Ant on Tower	RHSDC-3315-PF-48	15.73	10.30	28.93			30.00	8.00		57							
					Deg	Ant on Tower																	
						Sector C																	
					Deg	Ant _{1a}																	
					Deg	Ant _{1b}	LPA 80080-6CF-EDIN	11.20	4.50	71.10	see notes	66.4167	32.00	12.00	275.00	76							
					Deg	Ant _{1c}	FD9R6004-2C-BL	6.46	2.26	7.58		65.5	43.00	42.00		79							
					Deg	Ant _{2a}																	
					Deg	Ant _{2b}	SBNHH-1D65B	11.85	7.09	72.87	see notes	67.4167	86.00	86.00	275.00	81							
					Deg	Ant _{2c}																	
					Deg	Ant _{3a}																	
					Deg	Ant _{3b}																	
					Deg	Ant _{3c}	B13 RRH4x30	11.97	7.18	21.20		66.9167	34.00	34.00		87							
					Deg	Ant _{4a}																	
					Deg	Ant _{4b}	SBNHH-1D65B	11.85	7.09	72.87	see notes	67.4167	20.00	20.00	275.00	90							
					Deg	Ant _{4c}																	
					Deg	Ant _{5a}																	
					Deg	Ant _{5b}	LPA 80080-6CF-EDIN	11.20	4.50	71.10	see notes	66.4167	32.00	33.00	275.00	92							
					Deg	Ant _{5c}																	
					Deg	Ant on Standoff	B4 RRH2x60-4R	10.60	5.70	36.60			17.00	-8.00		83							
					Deg	Ant on Standoff																	
					Deg	Ant on Tower																	
					Deg	Ant on Tower																	
						Sector D																	
					Deg	Ant _{1a}																	
					Deg	Ant _{1b}																	
					Deg	Ant _{1c}																	
					Deg	Ant _{2a}																	
					Deg	Ant _{2b}																	
					Deg	Ant _{2c}																	
					Deg	Ant _{3a}																	
					Deg	Ant _{3b}																	
					Deg	Ant _{3c}																	
					Deg	Ant _{4a}																	
					Deg	Ant _{4b}																	
					Deg	Ant _{4c}																	
					Deg	Ant _{5a}																	
					Deg	Ant _{5b}																	
					Deg	Ant _{5c}																	
					Deg	Ant on Standoff																	
					Deg	Ant on Standoff																	
					Deg	Ant on Tower																	
					Deg	Ant on Tower																	



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

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	ASHLEY HARRIMAN, LLC	Mapping Date:	10/22/2020
Site Name:	Meriden East CT	Tower Type:	Self Support
Site Number or ID:	468199	Tower Height (FT):	71
Mapping Contractor:	TEP	Mount Elevation (FT):	66.5

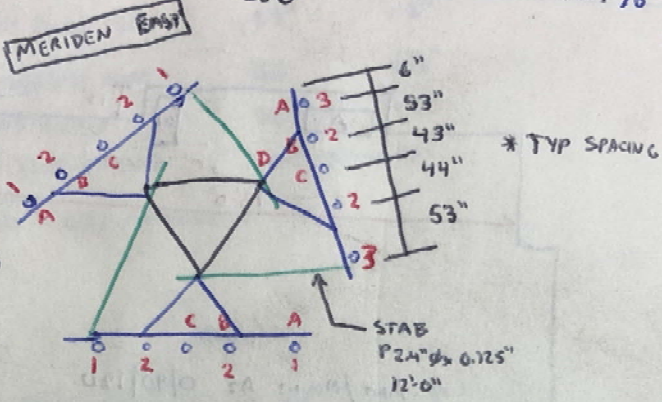
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited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

T/ROOF: 18'-0"
T/TWR: 71'-0"
E MOUNT: 66'-6"

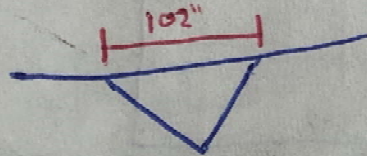
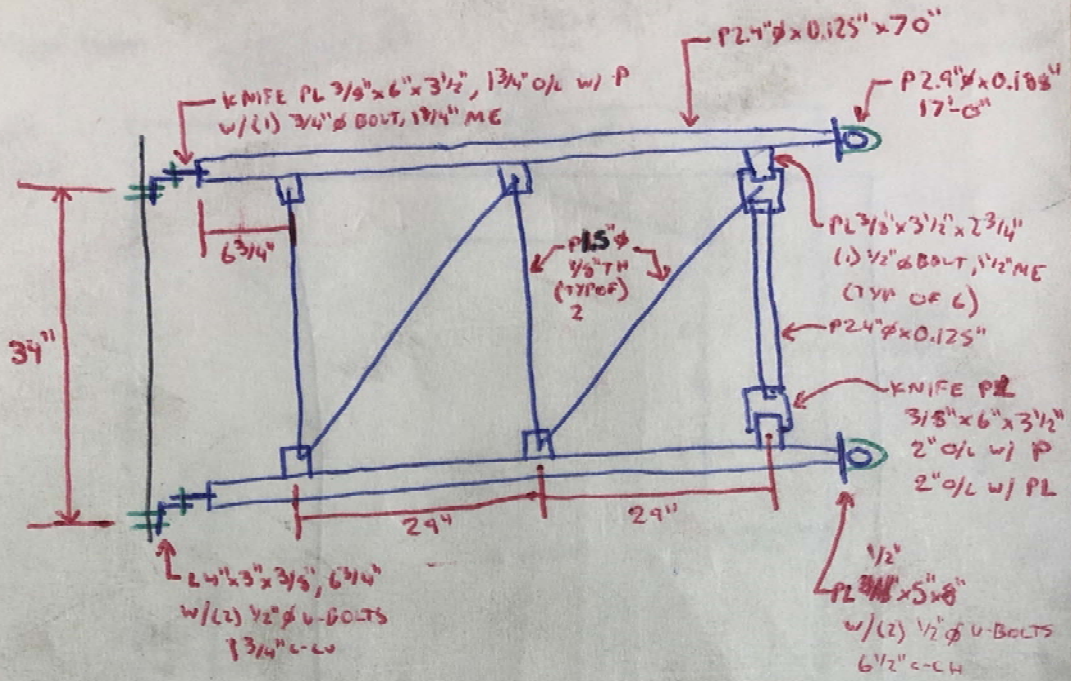
COAX: (15) FH 1/4", (1) HYB 1 3/8", (1) FH 1/2" CUT
* 9 CUT AT MNT NT/MNT
TWR LEG ϕ : 2.4" TWR FW: 78"

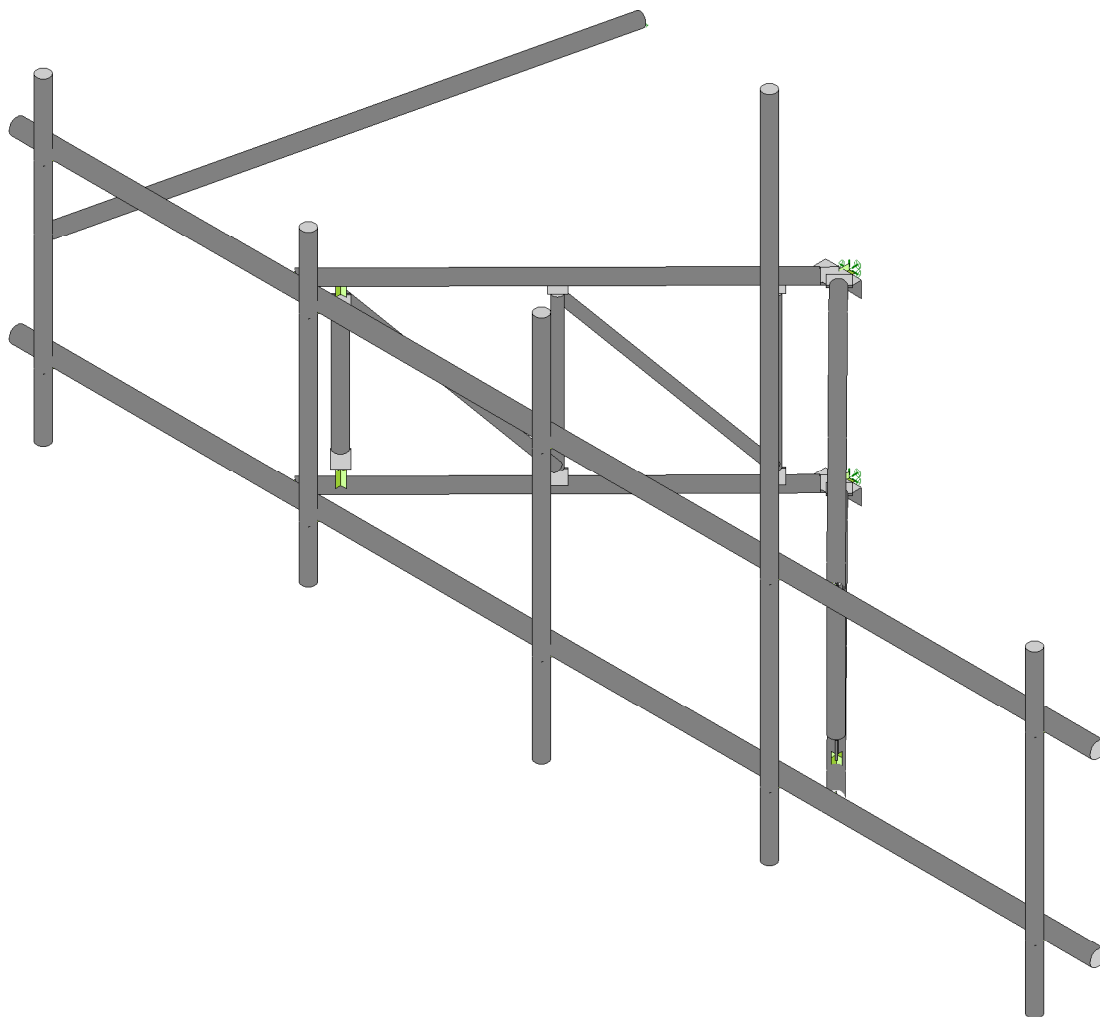
MNT Az: 55/175/275
ANT Az: 35/150/275
A LEG Az: 20°



- 1 AMPH LPA 80080-6CF-EDIN 32" 13 1/2" H
- A RFS FD9R 6004-2C-3L 42" 4" H
- 2 ANV SENHH-1D65B
- B ALU B4 RRH 2x6D-4R *ON STANDOFF VERT
- C ALU B13 RRH 4x30
- 3 AMPH LPA 80063-6CF-EDIN
- D RC RHSDL-3315-AE-46 *ON B LEG

PIPE	LENGTH	PV	ANTV	ANTH
P1	2.4" ϕ x 0.125" x 60"	14"	33"	12" A3
P2	126"	80"	86"	8"
P3	73"	22"	34"	-7"
P4	58"	14"	20"	8 1/2"
P5	66"	14"	33"	12" A3





Envelope Only Solution

		SK - 1
		May 27, 2021 at 12:22 PM
		468199-VZW_MT_LOT_B_H.r3d



Company :
 Designer :
 Job Number :
 Model Name :

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 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...	
1	Antenna D	None					36		
2	Antenna Di	None					36		
3	Antenna Wo (0 Deg)	None					36		
4	Antenna Wo (30 Deg)	None					36		
5	Antenna Wo (60 Deg)	None					36		
6	Antenna Wo (90 Deg)	None					36		
7	Antenna Wo (120 Deg)	None					36		
8	Antenna Wo (150 Deg)	None					36		
9	Antenna Wo (180 Deg)	None					36		
10	Antenna Wo (210 Deg)	None					36		
11	Antenna Wo (240 Deg)	None					36		
12	Antenna Wo (270 Deg)	None					36		
13	Antenna Wo (300 Deg)	None					36		
14	Antenna Wo (330 Deg)	None					36		
15	Antenna Wi (0 Deg)	None					36		
16	Antenna Wi (30 Deg)	None					36		
17	Antenna Wi (60 Deg)	None					36		
18	Antenna Wi (90 Deg)	None					36		
19	Antenna Wi (120 Deg)	None					36		
20	Antenna Wi (150 Deg)	None					36		
21	Antenna Wi (180 Deg)	None					36		
22	Antenna Wi (210 Deg)	None					36		
23	Antenna Wi (240 Deg)	None					36		
24	Antenna Wi (270 Deg)	None					36		
25	Antenna Wi (300 Deg)	None					36		
26	Antenna Wi (330 Deg)	None					36		
27	Antenna Wm (0 Deg)	None					36		
28	Antenna Wm (30 Deg)	None					36		
29	Antenna Wm (60 Deg)	None					36		
30	Antenna Wm (90 Deg)	None					36		
31	Antenna Wm (120 Deg)	None					36		
32	Antenna Wm (150 Deg)	None					36		
33	Antenna Wm (180 Deg)	None					36		
34	Antenna Wm (210 Deg)	None					36		
35	Antenna Wm (240 Deg)	None					36		
36	Antenna Wm (270 Deg)	None					36		
37	Antenna Wm (300 Deg)	None					36		
38	Antenna Wm (330 Deg)	None					36		
39	Structure D	None		-1					
40	Structure Di	None						40	
41	Structure Wo (0 Deg)	None						80	
42	Structure Wo (30 Deg)	None						80	
43	Structure Wo (60 Deg)	None						80	
44	Structure Wo (90 Deg)	None						80	
45	Structure Wo (120 Deg)	None						80	
46	Structure Wo (150 Deg)	None						80	
47	Structure Wo (180 Deg)	None						80	
48	Structure Wo (210 Deg)	None						80	
49	Structure Wo (240 Deg)	None						80	
50	Structure Wo (270 Deg)	None						80	
51	Structure Wo (300 Deg)	None						80	
52	Structure Wo (330 Deg)	None						80	
53	Structure Wi (0 Deg)	None						80	



Company :
 Designer :
 Job Number :
 Model Name :

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 Checked By: _____

Basic Load Cases (Continued)

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

Load Combinations

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



Company :
 Designer :
 Job Number :
 Model Name :

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Load Combinations (Continued)

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

Joint Coordinates and Temperatures

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	-0.583333	0.166667	0
2	N2	-0.28125	-0.583333	0.166667	0
3	N3	0.28125	-0.583333	0.166667	0
4	N4	0	-0.583333	0	0
5	N5	0	-3.416667	0.166667	0
6	N6	-0.28125	-3.416667	0.166667	0
7	N7	0.28125	-3.416667	0.166667	0
8	N11A	-8.5	-0.583333	4.583333	0
9	N12	8.5	-0.583333	4.583333	0
10	N16	-8.5	-3.416667	4.583333	0
11	N17	8.5	-3.416667	4.583333	0
12	N65	0	-3.416667	0	0
13	N66	-4.25	-0.583333	4.583333	0



Company :
 Designer :
 Job Number :
 Model Name :

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 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
14	N67	-4.25	-3.416667	4.583333	0	
15	N68	-4.25	-0.583333	4.458333	0	
16	N69	-4.25	-3.416667	4.458333	0	
17	N66B	-0.14538	-0.583333	0.313472	0	
18	N67A	-0.14538	-3.416667	0.313472	0	
19	N54A	-3.898175	-0.583333	4.10306	0	
20	N55A	-3.898175	-3.187667	4.10306	0	
21	N56A	-2.19769	-0.583333	2.385903	0	
22	N57A	-2.19769	-3.416667	2.385903	0	
23	N58A	-0.497205	-0.583333	0.668746	0	
24	N59A	-0.497205	-3.416667	0.668746	0	
25	N60A	-3.898175	-1.083333	4.10306	0	
26	N61A	-3.898175	-2.916667	4.10306	0	
27	N62A	-2.19769	-0.8125	2.385903	0	
28	N63	-0.497205	-0.8125	0.668746	0	
29	N64	-2.19769	-3.1875	2.385903	0	
30	N65A	-0.497205	-3.1875	0.668746	0	
31	N66A	-3.898175	-0.8125	4.10306	0	
32	N53A	4.25	-0.583333	4.583333	0	
33	N54B	4.25	-3.416667	4.583333	0	
34	N55B	4.25	-0.583333	4.458333	0	
35	N56B	4.25	-3.416667	4.458333	0	
36	N57B	0.14538	-0.583333	0.313472	0	
37	N58B	0.14538	-3.416667	0.313472	0	
38	N59B	3.898175	-0.583333	4.10306	0	
39	N60B	3.898175	-3.416667	4.10306	0	
40	N61B	2.19769	-0.583333	2.385903	0	
41	N62B	2.19769	-3.416667	2.385903	0	
42	N63A	0.497205	-0.583333	0.668746	0	
43	N64A	0.497205	-3.416667	0.668746	0	
44	N65B	3.898175	-1.083333	4.10306	0	
45	N66C	3.898175	-2.916667	4.10306	0	
46	N67B	2.19769	-0.8125	2.385903	0	
47	N68A	0.497205	-0.8125	0.668746	0	
48	N69A	2.19769	-3.1875	2.385903	0	
49	N70	0.497205	-3.1875	0.668746	0	
50	N71	3.898175	-0.8125	4.10306	0	
51	N51	7.75	-3.416667	4.583333	0	
52	N52	7.75	-3.416667	4.833333	0	
53	N53	7.75	-0.583333	4.583333	0	
54	N54	7.75	-0.583333	4.833333	0	
55	N55	3.583333	-3.416667	4.583333	0	
56	N56	3.583333	-3.416667	4.833333	0	
57	N57	3.583333	-0.583333	4.583333	0	
58	N58	3.583333	-0.583333	4.833333	0	
59	N59	0	-3.416667	4.583333	0	
60	N60	0	-3.416667	4.833333	0	
61	N61	0	-0.583333	4.583333	0	
62	N62	0	-0.583333	4.833333	0	
63	N63B	-3.666667	-3.416667	4.583333	0	
64	N64B	-3.666667	-3.416667	4.833333	0	
65	N65C	-3.666667	-0.583333	4.583333	0	
66	N66D	-3.666667	-0.583333	4.833333	0	
67	N67C	-7.833333	-3.416667	4.583333	0	
68	N68B	-7.833333	-3.416667	4.833333	0	
69	N69B	-7.833333	-0.583333	4.583333	0	
70	N70A	-7.833333	-0.583333	4.833333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
71	N71A	7.75	0.583333	4.833333	0	
72	N72	-7.833333	0.583333	4.833333	0	
73	N73	7.75	-4.416667	4.833333	0	
74	N74	-7.833333	-4.416667	4.833333	0	
75	N77	0	1.25	4.833333	0	
76	N78	0	-4.833333	4.833333	0	
77	N77A	3.583333	6.083333	4.833333	0	
78	N78A	3.583333	-4.416667	4.833333	0	
79	N79	-3.666667	0.583333	4.833333	0	
80	N80	-3.666667	-4.25	4.833333	0	
81	N81	-7.833333	-1.583333	4.833333	0	
82	N87	-6.045599	-1.583333	-2.771594	0	
83	N83	-3.898175	-3.416667	4.10306	0	
84	N84	3.898175	-3.187667	4.10306	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
3	Standoff Vertical	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	PIPE 1.25	Column	Pipe	A53 Gr. B	Typical	.625	.184	.184	.368
5	Face Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
6	Tie Back	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Bracing Plate	PL3/8x2.75_HRA	Beam	RECT	A36 Gr.36	Typical	2.531	.03	9.611	.115
8	Mount Angle	L4X3X6	Beam	Single Angle	A36 Gr.36	Typical	2.49	1.89	3.94	.123
9	Kickers	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical	.901	.535	.535	.011
10	Standoff Plate	PL3/8X3.5_HRA	Beam	RECT	A36 Gr.36	Typical	1.125	.013	.844	.049

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N2	N3		90	Mount Angle	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N1	N4			RIGID	None	None	RIGID	Typical
3	M3	N6	N7		90	Mount Angle	Beam	Single Angle	A36 Gr.36	Typical
4	M7	N11A	N12			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
5	M10	N16	N17			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
6	M46A	N5	N65			RIGID	None	None	RIGID	Typical
7	M47	N66	N68			RIGID	None	None	RIGID	Typical
8	M48	N67	N69			RIGID	None	None	RIGID	Typical
9	M49	N68	N66B			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
10	M50	N69	N67A			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
11	M47A	N66B	N1		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
12	M48A	N67A	N5		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
13	M37A	N66A	N60A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
14	M38A	N56A	N62A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
15	M39	N58A	N63	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
16	M40A	N66A	N64			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
17	M41A	N62A	N65A			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
18	O1	N60A	N61A			Standoff Vertical	Column	Pipe	A53 Gr. B	Typical
19	M43A	N61A	N55A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
20	M44A	N62A	N64			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
21	M45	N63	N65A			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
22	M46	N64	N57A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
23	M47B	N65A	N59A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
24	M33	N53A	N55B			RIGID	None	None	RIGID	Typical
25	M34	N54B	N56B			RIGID	None	None	RIGID	Typical
26	M35	N55B	N57B			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
27	M36	N56B	N58B			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
28	M37B	N57B	N1		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
29	M38B	N58B	N5		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
30	M39A	N71	N65B	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
31	M40B	N61B	N67B	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
32	M41B	N63A	N68A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
33	M42A	N71	N69A			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
34	M43B	N67B	N70			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
35	O2	N65B	N66C			Standoff Vertical	Column	Pipe	A53 Gr. B	Typical
36	M45A	N66C	N84	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
37	M46B	N67B	N69A			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
38	M47C	N68A	N70			Standoff Diagonal	Column	Pipe	A53 Gr. B	Typical
39	M48B	N69A	N62B	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
40	M49A	N70	N64A	N1		Bracing Plate	Beam	RECT	A36 Gr.36	Typical
41	M41	N52	N51			RIGID	None	None	RIGID	Typical
42	M42B	N54	N53			RIGID	None	None	RIGID	Typical
43	M43	N56	N55			RIGID	None	None	RIGID	Typical
44	M44	N58	N57			RIGID	None	None	RIGID	Typical
45	M45B	N60	N59			RIGID	None	None	RIGID	Typical
46	M46C	N62	N61			RIGID	None	None	RIGID	Typical
47	M47D	N64B	N63B			RIGID	None	None	RIGID	Typical
48	M48C	N66D	N65C			RIGID	None	None	RIGID	Typical
49	M49B	N68B	N67C			RIGID	None	None	RIGID	Typical
50	M50A	N70A	N69B			RIGID	None	None	RIGID	Typical
51	MP5A	N72	N74			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
52	MP1A	N71A	N73			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
53	MP3A	N77	N78			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
54	MP2A	N77A	N78A			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
55	MP4A	N79	N80			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
56	M56	N81	N87			Tie Back	Beam	Pipe	A53 Gr. B	Typical
57	M57	N54A	N66A			RIGID	None	None	RIGID	Typical
58	M58	N55A	N83			RIGID	None	None	RIGID	Typical
59	M59	N59B	N71			RIGID	None	None	RIGID	Typical
60	M60	N84	N60B			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes	** NA **			None
3	M3						Yes				None
4	M7						Yes				None
5	M10						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
6	M46A						Yes	** NA **			None
7	M47	OOOOOX					Yes	** NA **			None
8	M48	OOOOOX					Yes	** NA **			None
9	M49						Yes				None
10	M50						Yes				None
11	M47A						Yes	Default			None
12	M48A						Yes	Default			None
13	M37A	BenPIN					Yes	Default			None
14	M38A						Yes	Default			None
15	M39						Yes				None
16	M40A	BenPIN	BenPIN				Yes	** NA **			None
17	M41A	BenPIN	BenPIN				Yes	** NA **			None
18	O1						Yes	** NA **			None
19	M43A		BenPIN				Yes				None
20	M44A	BenPIN	BenPIN				Yes	** NA **			None
21	M45	BenPIN	BenPIN				Yes	** NA **			None
22	M46						Yes	Default			None
23	M47B						Yes				None
24	M33	OOOOOX					Yes	** NA **			None
25	M34	OOOOOX					Yes	** NA **			None
26	M35						Yes				None
27	M36						Yes				None
28	M37B						Yes	Default			None
29	M38B						Yes	Default			None
30	M39A	BenPIN					Yes	Default			None
31	M40B						Yes	Default			None
32	M41B						Yes				None
33	M42A	BenPIN	BenPIN				Yes	** NA **			None
34	M43B	BenPIN	BenPIN				Yes	** NA **			None
35	O2						Yes	** NA **			None
36	M45A		BenPIN				Yes				None
37	M46B	BenPIN	BenPIN				Yes	** NA **			None
38	M47C	BenPIN	BenPIN				Yes	** NA **			None
39	M48B						Yes	Default			None
40	M49A						Yes				None
41	M41						Yes	** NA **			None
42	M42B						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	M45B						Yes	** NA **			None
46	M46C						Yes	** NA **			None
47	M47D						Yes	** NA **			None
48	M48C						Yes	** NA **			None
49	M49B						Yes	** NA **			None
50	M50A						Yes	** NA **			None
51	MP5A						Yes	** NA **			None
52	MP1A						Yes	** NA **			None
53	MP3A						Yes	** NA **			None
54	MP2A						Yes	** NA **			None
55	MP4A						Yes	** NA **			None
56	M56	OOOOXO					Yes	Default			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-13.5	1
2	MP1A	My	-.01	1
3	MP1A	Mz	-.006	1
4	MP1A	Y	-13.5	4
5	MP1A	My	-.01	4
6	MP1A	Mz	-.006	4
7	MP5A	Y	-13.5	1
8	MP5A	My	-.01	1
9	MP5A	Mz	-.006	1
10	MP5A	Y	-13.5	4
11	MP5A	My	-.01	4
12	MP5A	Mz	-.006	4
13	O1	Y	-84.4	.75
14	O1	My	0	.75
15	O1	Mz	0	.75
16	O2	Y	-70.3	.75
17	O2	My	0	.75
18	O2	Mz	0	.75
19	MP2A	Y	-23	6.5
20	MP2A	My	-.009	6.5
21	MP2A	Mz	-.023	6.5
22	MP2A	Y	-23	9.5
23	MP2A	My	-.009	9.5
24	MP2A	Mz	-.023	9.5
25	MP2A	Y	-23	6.5
26	MP2A	My	-.024	6.5
27	MP2A	Mz	.004	6.5
28	MP2A	Y	-23	9.5
29	MP2A	My	-.024	9.5
30	MP2A	Mz	.004	9.5
31	MP4A	Y	-43.55	1.5
32	MP4A	My	-.031	1.5
33	MP4A	Mz	-.018	1.5
34	MP4A	Y	-43.55	3.5
35	MP4A	My	-.031	3.5
36	MP4A	Mz	-.018	3.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-81.763	1
2	MP1A	My	-.059	1
3	MP1A	Mz	-.034	1
4	MP1A	Y	-81.763	4
5	MP1A	My	-.059	4
6	MP1A	Mz	-.034	4
7	MP5A	Y	-81.763	1
8	MP5A	My	-.059	1
9	MP5A	Mz	-.034	1
10	MP5A	Y	-81.763	4
11	MP5A	My	-.059	4
12	MP5A	Mz	-.034	4
13	O1	Y	-41.245	.75
14	O1	My	0	.75
15	O1	Mz	0	.75
16	O2	Y	-37.069	.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
17	O2	My	0	.75
18	O2	Mz	0	.75
19	MP2A	Y	-76.014	6.5
20	MP2A	My	-.03	6.5
21	MP2A	Mz	-.076	6.5
22	MP2A	Y	-76.014	9.5
23	MP2A	My	-.03	9.5
24	MP2A	Mz	-.076	9.5
25	MP2A	Y	-76.014	6.5
26	MP2A	My	-.08	6.5
27	MP2A	Mz	.012	6.5
28	MP2A	Y	-76.014	9.5
29	MP2A	My	-.08	9.5
30	MP2A	Mz	.012	9.5
31	MP4A	Y	-32.753	1.5
32	MP4A	My	-.024	1.5
33	MP4A	Mz	-.014	1.5
34	MP4A	Y	-32.753	3.5
35	MP4A	My	-.024	3.5
36	MP4A	Mz	-.014	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	1
2	MP1A	Z	-165.854	1
3	MP1A	Mx	.069	1
4	MP1A	X	0	4
5	MP1A	Z	-165.854	4
6	MP1A	Mx	.069	4
7	MP5A	X	0	1
8	MP5A	Z	-165.854	1
9	MP5A	Mx	.069	1
10	MP5A	X	0	4
11	MP5A	Z	-165.854	4
12	MP5A	Mx	.069	4
13	O1	X	0	.75
14	O1	Z	-49.878	.75
15	O1	Mx	0	.75
16	O2	X	0	.75
17	O2	Z	-43.555	.75
18	O2	Mx	0	.75
19	MP2A	X	0	6.5
20	MP2A	Z	-163.96	6.5
21	MP2A	Mx	.163	6.5
22	MP2A	X	0	9.5
23	MP2A	Z	-163.96	9.5
24	MP2A	Mx	.163	9.5
25	MP2A	X	0	6.5
26	MP2A	Z	-163.96	6.5
27	MP2A	Mx	-.026	6.5
28	MP2A	X	0	9.5
29	MP2A	Z	-163.96	9.5
30	MP2A	Mx	-.026	9.5
31	MP4A	X	0	1.5
32	MP4A	Z	-70.735	1.5
33	MP4A	Mx	.029	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
34	MP4A	X	0	3.5
35	MP4A	Z	-70.735	3.5
36	MP4A	Mx	.029	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	85.202	1
2	MP1A	Z	-147.574	1
3	MP1A	Mx	0	1
4	MP1A	X	85.202	4
5	MP1A	Z	-147.574	4
6	MP1A	Mx	0	4
7	MP5A	X	85.202	1
8	MP5A	Z	-147.574	1
9	MP5A	Mx	0	1
10	MP5A	X	85.202	4
11	MP5A	Z	-147.574	4
12	MP5A	Mx	0	4
13	O1	X	30.442	.75
14	O1	Z	-52.727	.75
15	O1	Mx	0	.75
16	O2	X	29.388	.75
17	O2	Z	-50.901	.75
18	O2	Mx	0	.75
19	MP2A	X	87.598	6.5
20	MP2A	Z	-151.724	6.5
21	MP2A	Mx	.117	6.5
22	MP2A	X	87.598	9.5
23	MP2A	Z	-151.724	9.5
24	MP2A	Mx	.117	9.5
25	MP2A	X	87.598	6.5
26	MP2A	Z	-151.724	6.5
27	MP2A	Mx	-.117	6.5
28	MP2A	X	87.598	9.5
29	MP2A	Z	-151.724	9.5
30	MP2A	Mx	-.117	9.5
31	MP4A	X	41.713	1.5
32	MP4A	Z	-72.25	1.5
33	MP4A	Mx	0	1.5
34	MP4A	X	41.713	3.5
35	MP4A	Z	-72.25	3.5
36	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	143.634	1
2	MP1A	Z	-82.927	1
3	MP1A	Mx	-.069	1
4	MP1A	X	143.634	4
5	MP1A	Z	-82.927	4
6	MP1A	Mx	-.069	4
7	MP5A	X	143.634	1
8	MP5A	Z	-82.927	1
9	MP5A	Mx	-.069	1
10	MP5A	X	143.634	4
11	MP5A	Z	-82.927	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP5A	Mx	-.069	4
13	O1	X	57.492	.75
14	O1	Z	-33.193	.75
15	O1	Mx	0	.75
16	O2	X	57.492	.75
17	O2	Z	-33.193	.75
18	O2	Mx	0	.75
19	MP2A	X	141.993	6.5
20	MP2A	Z	-81.98	6.5
21	MP2A	Mx	.026	6.5
22	MP2A	X	141.993	9.5
23	MP2A	Z	-81.98	9.5
24	MP2A	Mx	.026	9.5
25	MP2A	X	141.993	6.5
26	MP2A	Z	-81.98	6.5
27	MP2A	Mx	-.163	6.5
28	MP2A	X	141.993	9.5
29	MP2A	Z	-81.98	9.5
30	MP2A	Mx	-.163	9.5
31	MP4A	X	61.259	1.5
32	MP4A	Z	-35.368	1.5
33	MP4A	Mx	-.029	1.5
34	MP4A	X	61.259	3.5
35	MP4A	Z	-35.368	3.5
36	MP4A	Mx	-.029	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	156.754	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.113	1
4	MP1A	X	156.754	4
5	MP1A	Z	0	4
6	MP1A	Mx	-.113	4
7	MP5A	X	156.754	1
8	MP5A	Z	0	1
9	MP5A	Mx	-.113	1
10	MP5A	X	156.754	4
11	MP5A	Z	0	4
12	MP5A	Mx	-.113	4
13	O1	X	60.884	.75
14	O1	Z	0	.75
15	O1	Mx	0	.75
16	O2	X	58.776	.75
17	O2	Z	0	.75
18	O2	Mx	0	.75
19	MP2A	X	141.487	6.5
20	MP2A	Z	0	6.5
21	MP2A	Mx	-.055	6.5
22	MP2A	X	141.487	9.5
23	MP2A	Z	0	9.5
24	MP2A	Mx	-.055	9.5
25	MP2A	X	141.487	6.5
26	MP2A	Z	0	6.5
27	MP2A	Mx	-.149	6.5
28	MP2A	X	141.487	9.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP2A	Z	0	9.5
30	MP2A	Mx	-.149	9.5
31	MP4A	X	45.353	1.5
32	MP4A	Z	0	1.5
33	MP4A	Mx	-.033	1.5
34	MP4A	X	45.353	3.5
35	MP4A	Z	0	3.5
36	MP4A	Mx	-.033	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	131.813	1
2	MP1A	Z	76.102	1
3	MP1A	Mx	-.127	1
4	MP1A	X	131.813	4
5	MP1A	Z	76.102	4
6	MP1A	Mx	-.127	4
7	MP5A	X	131.813	1
8	MP5A	Z	76.102	1
9	MP5A	Mx	-.127	1
10	MP5A	X	131.813	4
11	MP5A	Z	76.102	4
12	MP5A	Mx	-.127	4
13	O1	X	43.196	.75
14	O1	Z	24.939	.75
15	O1	Mx	0	.75
16	O2	X	37.72	.75
17	O2	Z	21.777	.75
18	O2	Mx	0	.75
19	MP2A	X	112.801	6.5
20	MP2A	Z	65.126	6.5
21	MP2A	Mx	-.109	6.5
22	MP2A	X	112.801	9.5
23	MP2A	Z	65.126	9.5
24	MP2A	Mx	-.109	9.5
25	MP2A	X	112.801	6.5
26	MP2A	Z	65.126	6.5
27	MP2A	Mx	-.109	6.5
28	MP2A	X	112.801	9.5
29	MP2A	Z	65.126	9.5
30	MP2A	Mx	-.109	9.5
31	MP4A	X	28.286	1.5
32	MP4A	Z	16.331	1.5
33	MP4A	Mx	-.027	1.5
34	MP4A	X	28.286	3.5
35	MP4A	Z	16.331	3.5
36	MP4A	Mx	-.027	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	78.377	1
2	MP1A	Z	135.753	1
3	MP1A	Mx	-.113	1
4	MP1A	X	78.377	4
5	MP1A	Z	135.753	4
6	MP1A	Mx	-.113	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
7	MP5A	X	78.377	1
8	MP5A	Z	135.753	1
9	MP5A	Mx	-.113	1
10	MP5A	X	78.377	4
11	MP5A	Z	135.753	4
12	MP5A	Mx	-.113	4
13	O1	X	22.188	.75
14	O1	Z	38.431	.75
15	O1	Mx	0	.75
16	O2	X	17.972	.75
17	O2	Z	31.129	.75
18	O2	Mx	0	.75
19	MP2A	X	70.744	6.5
20	MP2A	Z	122.532	6.5
21	MP2A	Mx	-.149	6.5
22	MP2A	X	70.744	9.5
23	MP2A	Z	122.532	9.5
24	MP2A	Mx	-.149	9.5
25	MP2A	X	70.744	6.5
26	MP2A	Z	122.532	6.5
27	MP2A	Mx	-.055	6.5
28	MP2A	X	70.744	9.5
29	MP2A	Z	122.532	9.5
30	MP2A	Mx	-.055	9.5
31	MP4A	X	22.676	1.5
32	MP4A	Z	39.277	1.5
33	MP4A	Mx	-.033	1.5
34	MP4A	X	22.676	3.5
35	MP4A	Z	39.277	3.5
36	MP4A	Mx	-.033	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	1
2	MP1A	Z	165.854	1
3	MP1A	Mx	-.069	1
4	MP1A	X	0	4
5	MP1A	Z	165.854	4
6	MP1A	Mx	-.069	4
7	MP5A	X	0	1
8	MP5A	Z	165.854	1
9	MP5A	Mx	-.069	1
10	MP5A	X	0	4
11	MP5A	Z	165.854	4
12	MP5A	Mx	-.069	4
13	O1	X	0	.75
14	O1	Z	49.878	.75
15	O1	Mx	0	.75
16	O2	X	0	.75
17	O2	Z	43.555	.75
18	O2	Mx	0	.75
19	MP2A	X	0	6.5
20	MP2A	Z	163.96	6.5
21	MP2A	Mx	-.163	6.5
22	MP2A	X	0	9.5
23	MP2A	Z	163.96	9.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP2A	Mx	-.163	9.5
25	MP2A	X	0	6.5
26	MP2A	Z	163.96	6.5
27	MP2A	Mx	.026	6.5
28	MP2A	X	0	9.5
29	MP2A	Z	163.96	9.5
30	MP2A	Mx	.026	9.5
31	MP4A	X	0	1.5
32	MP4A	Z	70.735	1.5
33	MP4A	Mx	-.029	1.5
34	MP4A	X	0	3.5
35	MP4A	Z	70.735	3.5
36	MP4A	Mx	-.029	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-85.202	1
2	MP1A	Z	147.574	1
3	MP1A	Mx	0	1
4	MP1A	X	-85.202	4
5	MP1A	Z	147.574	4
6	MP1A	Mx	0	4
7	MP5A	X	-85.202	1
8	MP5A	Z	147.574	1
9	MP5A	Mx	0	1
10	MP5A	X	-85.202	4
11	MP5A	Z	147.574	4
12	MP5A	Mx	0	4
13	O1	X	-30.442	.75
14	O1	Z	52.727	.75
15	O1	Mx	0	.75
16	O2	X	-29.388	.75
17	O2	Z	50.901	.75
18	O2	Mx	0	.75
19	MP2A	X	-87.598	6.5
20	MP2A	Z	151.724	6.5
21	MP2A	Mx	-.117	6.5
22	MP2A	X	-87.598	9.5
23	MP2A	Z	151.724	9.5
24	MP2A	Mx	-.117	9.5
25	MP2A	X	-87.598	6.5
26	MP2A	Z	151.724	6.5
27	MP2A	Mx	.117	6.5
28	MP2A	X	-87.598	9.5
29	MP2A	Z	151.724	9.5
30	MP2A	Mx	.117	9.5
31	MP4A	X	-41.713	1.5
32	MP4A	Z	72.25	1.5
33	MP4A	Mx	0	1.5
34	MP4A	X	-41.713	3.5
35	MP4A	Z	72.25	3.5
36	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-143.634	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
2	MP1A	Z	82.927	1
3	MP1A	Mx	.069	1
4	MP1A	X	-143.634	4
5	MP1A	Z	82.927	4
6	MP1A	Mx	.069	4
7	MP5A	X	-143.634	1
8	MP5A	Z	82.927	1
9	MP5A	Mx	.069	1
10	MP5A	X	-143.634	4
11	MP5A	Z	82.927	4
12	MP5A	Mx	.069	4
13	O1	X	-57.492	.75
14	O1	Z	33.193	.75
15	O1	Mx	0	.75
16	O2	X	-57.492	.75
17	O2	Z	33.193	.75
18	O2	Mx	0	.75
19	MP2A	X	-141.993	6.5
20	MP2A	Z	81.98	6.5
21	MP2A	Mx	-.026	6.5
22	MP2A	X	-141.993	9.5
23	MP2A	Z	81.98	9.5
24	MP2A	Mx	-.026	9.5
25	MP2A	X	-141.993	6.5
26	MP2A	Z	81.98	6.5
27	MP2A	Mx	.163	6.5
28	MP2A	X	-141.993	9.5
29	MP2A	Z	81.98	9.5
30	MP2A	Mx	.163	9.5
31	MP4A	X	-61.259	1.5
32	MP4A	Z	35.368	1.5
33	MP4A	Mx	.029	1.5
34	MP4A	X	-61.259	3.5
35	MP4A	Z	35.368	3.5
36	MP4A	Mx	.029	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-156.754	1
2	MP1A	Z	0	1
3	MP1A	Mx	.113	1
4	MP1A	X	-156.754	4
5	MP1A	Z	0	4
6	MP1A	Mx	.113	4
7	MP5A	X	-156.754	1
8	MP5A	Z	0	1
9	MP5A	Mx	.113	1
10	MP5A	X	-156.754	4
11	MP5A	Z	0	4
12	MP5A	Mx	.113	4
13	O1	X	-60.884	.75
14	O1	Z	0	.75
15	O1	Mx	0	.75
16	O2	X	-58.776	.75
17	O2	Z	0	.75
18	O2	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP2A	X	-141.487	6.5
20	MP2A	Z	0	6.5
21	MP2A	Mx	.055	6.5
22	MP2A	X	-141.487	9.5
23	MP2A	Z	0	9.5
24	MP2A	Mx	.055	9.5
25	MP2A	X	-141.487	6.5
26	MP2A	Z	0	6.5
27	MP2A	Mx	.149	6.5
28	MP2A	X	-141.487	9.5
29	MP2A	Z	0	9.5
30	MP2A	Mx	.149	9.5
31	MP4A	X	-45.353	1.5
32	MP4A	Z	0	1.5
33	MP4A	Mx	.033	1.5
34	MP4A	X	-45.353	3.5
35	MP4A	Z	0	3.5
36	MP4A	Mx	.033	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-131.813	1
2	MP1A	Z	-76.102	1
3	MP1A	Mx	.127	1
4	MP1A	X	-131.813	4
5	MP1A	Z	-76.102	4
6	MP1A	Mx	.127	4
7	MP5A	X	-131.813	1
8	MP5A	Z	-76.102	1
9	MP5A	Mx	.127	1
10	MP5A	X	-131.813	4
11	MP5A	Z	-76.102	4
12	MP5A	Mx	.127	4
13	O1	X	-43.196	.75
14	O1	Z	-24.939	.75
15	O1	Mx	0	.75
16	O2	X	-37.72	.75
17	O2	Z	-21.777	.75
18	O2	Mx	0	.75
19	MP2A	X	-112.801	6.5
20	MP2A	Z	-65.126	6.5
21	MP2A	Mx	.109	6.5
22	MP2A	X	-112.801	9.5
23	MP2A	Z	-65.126	9.5
24	MP2A	Mx	.109	9.5
25	MP2A	X	-112.801	6.5
26	MP2A	Z	-65.126	6.5
27	MP2A	Mx	.109	6.5
28	MP2A	X	-112.801	9.5
29	MP2A	Z	-65.126	9.5
30	MP2A	Mx	.109	9.5
31	MP4A	X	-28.286	1.5
32	MP4A	Z	-16.331	1.5
33	MP4A	Mx	.027	1.5
34	MP4A	X	-28.286	3.5
35	MP4A	Z	-16.331	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP4A	Mx	.027	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-78.377	1
2	MP1A	Z	-135.753	1
3	MP1A	Mx	.113	1
4	MP1A	X	-78.377	4
5	MP1A	Z	-135.753	4
6	MP1A	Mx	.113	4
7	MP5A	X	-78.377	1
8	MP5A	Z	-135.753	1
9	MP5A	Mx	.113	1
10	MP5A	X	-78.377	4
11	MP5A	Z	-135.753	4
12	MP5A	Mx	.113	4
13	O1	X	-22.188	.75
14	O1	Z	-38.431	.75
15	O1	Mx	0	.75
16	O2	X	-17.972	.75
17	O2	Z	-31.129	.75
18	O2	Mx	0	.75
19	MP2A	X	-70.744	6.5
20	MP2A	Z	-122.532	6.5
21	MP2A	Mx	.149	6.5
22	MP2A	X	-70.744	9.5
23	MP2A	Z	-122.532	9.5
24	MP2A	Mx	.149	9.5
25	MP2A	X	-70.744	6.5
26	MP2A	Z	-122.532	6.5
27	MP2A	Mx	.055	6.5
28	MP2A	X	-70.744	9.5
29	MP2A	Z	-122.532	9.5
30	MP2A	Mx	.055	9.5
31	MP4A	X	-22.676	1.5
32	MP4A	Z	-39.277	1.5
33	MP4A	Mx	.033	1.5
34	MP4A	X	-22.676	3.5
35	MP4A	Z	-39.277	3.5
36	MP4A	Mx	.033	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	1
2	MP1A	Z	-31.793	1
3	MP1A	Mx	.013	1
4	MP1A	X	0	4
5	MP1A	Z	-31.793	4
6	MP1A	Mx	.013	4
7	MP5A	X	0	1
8	MP5A	Z	-31.793	1
9	MP5A	Mx	.013	1
10	MP5A	X	0	4
11	MP5A	Z	-31.793	4
12	MP5A	Mx	.013	4
13	O1	X	0	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	O1	Z	-10.665	.75
15	O1	Mx	0	.75
16	O2	X	0	.75
17	O2	Z	-9.455	.75
18	O2	Mx	0	.75
19	MP2A	X	0	6.5
20	MP2A	Z	-31.468	6.5
21	MP2A	Mx	.031	6.5
22	MP2A	X	0	9.5
23	MP2A	Z	-31.468	9.5
24	MP2A	Mx	.031	9.5
25	MP2A	X	0	6.5
26	MP2A	Z	-31.468	6.5
27	MP2A	Mx	-.005	6.5
28	MP2A	X	0	9.5
29	MP2A	Z	-31.468	9.5
30	MP2A	Mx	-.005	9.5
31	MP4A	X	0	1.5
32	MP4A	Z	-14.118	1.5
33	MP4A	Mx	.006	1.5
34	MP4A	X	0	3.5
35	MP4A	Z	-14.118	3.5
36	MP4A	Mx	.006	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	16.307	1
2	MP1A	Z	-28.245	1
3	MP1A	Mx	0	1
4	MP1A	X	16.307	4
5	MP1A	Z	-28.245	4
6	MP1A	Mx	0	4
7	MP5A	X	16.307	1
8	MP5A	Z	-28.245	1
9	MP5A	Mx	0	1
10	MP5A	X	16.307	4
11	MP5A	Z	-28.245	4
12	MP5A	Mx	0	4
13	O1	X	6.393	.75
14	O1	Z	-11.073	.75
15	O1	Mx	0	.75
16	O2	X	6.192	.75
17	O2	Z	-10.724	.75
18	O2	Mx	0	.75
19	MP2A	X	16.758	6.5
20	MP2A	Z	-29.026	6.5
21	MP2A	Mx	.022	6.5
22	MP2A	X	16.758	9.5
23	MP2A	Z	-29.026	9.5
24	MP2A	Mx	.022	9.5
25	MP2A	X	16.758	6.5
26	MP2A	Z	-29.026	6.5
27	MP2A	Mx	-.022	6.5
28	MP2A	X	16.758	9.5
29	MP2A	Z	-29.026	9.5
30	MP2A	Mx	-.022	9.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
31	MP4A	X	8.248	1.5
32	MP4A	Z	-14.286	1.5
33	MP4A	Mx	0	1.5
34	MP4A	X	8.248	3.5
35	MP4A	Z	-14.286	3.5
36	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	27.533	1
2	MP1A	Z	-15.896	1
3	MP1A	Mx	-.013	1
4	MP1A	X	27.533	4
5	MP1A	Z	-15.896	4
6	MP1A	Mx	-.013	4
7	MP5A	X	27.533	1
8	MP5A	Z	-15.896	1
9	MP5A	Mx	-.013	1
10	MP5A	X	27.533	4
11	MP5A	Z	-15.896	4
12	MP5A	Mx	-.013	4
13	O1	X	11.992	.75
14	O1	Z	-6.923	.75
15	O1	Mx	0	.75
16	O2	X	11.992	.75
17	O2	Z	-6.923	.75
18	O2	Mx	0	.75
19	MP2A	X	27.252	6.5
20	MP2A	Z	-15.734	6.5
21	MP2A	Mx	.005	6.5
22	MP2A	X	27.252	9.5
23	MP2A	Z	-15.734	9.5
24	MP2A	Mx	.005	9.5
25	MP2A	X	27.252	6.5
26	MP2A	Z	-15.734	6.5
27	MP2A	Mx	-.031	6.5
28	MP2A	X	27.252	9.5
29	MP2A	Z	-15.734	9.5
30	MP2A	Mx	-.031	9.5
31	MP4A	X	12.227	1.5
32	MP4A	Z	-7.059	1.5
33	MP4A	Mx	-.006	1.5
34	MP4A	X	12.227	3.5
35	MP4A	Z	-7.059	3.5
36	MP4A	Mx	-.006	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	30.149	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.022	1
4	MP1A	X	30.149	4
5	MP1A	Z	0	4
6	MP1A	Mx	-.022	4
7	MP5A	X	30.149	1
8	MP5A	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
9	MP5A	Mx	-0.22	1
10	MP5A	X	30.149	4
11	MP5A	Z	0	4
12	MP5A	Mx	-0.22	4
13	O1	X	12.786	.75
14	O1	Z	0	.75
15	O1	Mx	0	.75
16	O2	X	12.383	.75
17	O2	Z	0	.75
18	O2	Mx	0	.75
19	MP2A	X	27.37	6.5
20	MP2A	Z	0	6.5
21	MP2A	Mx	-0.11	6.5
22	MP2A	X	27.37	9.5
23	MP2A	Z	0	9.5
24	MP2A	Mx	-0.11	9.5
25	MP2A	X	27.37	6.5
26	MP2A	Z	0	6.5
27	MP2A	Mx	-0.29	6.5
28	MP2A	X	27.37	9.5
29	MP2A	Z	0	9.5
30	MP2A	Mx	-0.29	9.5
31	MP4A	X	9.361	1.5
32	MP4A	Z	0	1.5
33	MP4A	Mx	-0.07	1.5
34	MP4A	X	9.361	3.5
35	MP4A	Z	0	3.5
36	MP4A	Mx	-0.07	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	25.398	1
2	MP1A	Z	14.663	1
3	MP1A	Mx	-0.24	1
4	MP1A	X	25.398	4
5	MP1A	Z	14.663	4
6	MP1A	Mx	-0.24	4
7	MP5A	X	25.398	1
8	MP5A	Z	14.663	1
9	MP5A	Mx	-0.24	1
10	MP5A	X	25.398	4
11	MP5A	Z	14.663	4
12	MP5A	Mx	-0.24	4
13	O1	X	9.236	.75
14	O1	Z	5.332	.75
15	O1	Mx	0	.75
16	O2	X	8.189	.75
17	O2	Z	4.728	.75
18	O2	Mx	0	.75
19	MP2A	X	21.929	6.5
20	MP2A	Z	12.661	6.5
21	MP2A	Mx	-0.21	6.5
22	MP2A	X	21.929	9.5
23	MP2A	Z	12.661	9.5
24	MP2A	Mx	-0.21	9.5
25	MP2A	X	21.929	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP2A	Z	12.661	6.5
27	MP2A	Mx	-.021	6.5
28	MP2A	X	21.929	9.5
29	MP2A	Z	12.661	9.5
30	MP2A	Mx	-.021	9.5
31	MP4A	X	6.048	1.5
32	MP4A	Z	3.492	1.5
33	MP4A	Mx	-.006	1.5
34	MP4A	X	6.048	3.5
35	MP4A	Z	3.492	3.5
36	MP4A	Mx	-.006	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	15.074	1
2	MP1A	Z	26.109	1
3	MP1A	Mx	-.022	1
4	MP1A	X	15.074	4
5	MP1A	Z	26.109	4
6	MP1A	Mx	-.022	4
7	MP5A	X	15.074	1
8	MP5A	Z	26.109	1
9	MP5A	Mx	-.022	1
10	MP5A	X	15.074	4
11	MP5A	Z	26.109	4
12	MP5A	Mx	-.022	4
13	O1	X	4.802	.75
14	O1	Z	8.317	.75
15	O1	Mx	0	.75
16	O2	X	3.996	.75
17	O2	Z	6.921	.75
18	O2	Mx	0	.75
19	MP2A	X	13.685	6.5
20	MP2A	Z	23.704	6.5
21	MP2A	Mx	-.029	6.5
22	MP2A	X	13.685	9.5
23	MP2A	Z	23.704	9.5
24	MP2A	Mx	-.029	9.5
25	MP2A	X	13.685	6.5
26	MP2A	Z	23.704	6.5
27	MP2A	Mx	-.011	6.5
28	MP2A	X	13.685	9.5
29	MP2A	Z	23.704	9.5
30	MP2A	Mx	-.011	9.5
31	MP4A	X	4.681	1.5
32	MP4A	Z	8.107	1.5
33	MP4A	Mx	-.007	1.5
34	MP4A	X	4.681	3.5
35	MP4A	Z	8.107	3.5
36	MP4A	Mx	-.007	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	31.793	1
3	MP1A	Mx	-.013	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP1A	X	0	4
5	MP1A	Z	31.793	4
6	MP1A	Mx	-.013	4
7	MP5A	X	0	1
8	MP5A	Z	31.793	1
9	MP5A	Mx	-.013	1
10	MP5A	X	0	4
11	MP5A	Z	31.793	4
12	MP5A	Mx	-.013	4
13	O1	X	0	.75
14	O1	Z	10.665	.75
15	O1	Mx	0	.75
16	O2	X	0	.75
17	O2	Z	9.455	.75
18	O2	Mx	0	.75
19	MP2A	X	0	6.5
20	MP2A	Z	31.468	6.5
21	MP2A	Mx	-.031	6.5
22	MP2A	X	0	9.5
23	MP2A	Z	31.468	9.5
24	MP2A	Mx	-.031	9.5
25	MP2A	X	0	6.5
26	MP2A	Z	31.468	6.5
27	MP2A	Mx	.005	6.5
28	MP2A	X	0	9.5
29	MP2A	Z	31.468	9.5
30	MP2A	Mx	.005	9.5
31	MP4A	X	0	1.5
32	MP4A	Z	14.118	1.5
33	MP4A	Mx	-.006	1.5
34	MP4A	X	0	3.5
35	MP4A	Z	14.118	3.5
36	MP4A	Mx	-.006	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-16.307	1
2	MP1A	Z	28.245	1
3	MP1A	Mx	0	1
4	MP1A	X	-16.307	4
5	MP1A	Z	28.245	4
6	MP1A	Mx	0	4
7	MP5A	X	-16.307	1
8	MP5A	Z	28.245	1
9	MP5A	Mx	0	1
10	MP5A	X	-16.307	4
11	MP5A	Z	28.245	4
12	MP5A	Mx	0	4
13	O1	X	-6.393	.75
14	O1	Z	11.073	.75
15	O1	Mx	0	.75
16	O2	X	-6.192	.75
17	O2	Z	10.724	.75
18	O2	Mx	0	.75
19	MP2A	X	-16.758	6.5
20	MP2A	Z	29.026	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2A	Mx	-.022	6.5
22	MP2A	X	-16.758	9.5
23	MP2A	Z	29.026	9.5
24	MP2A	Mx	-.022	9.5
25	MP2A	X	-16.758	6.5
26	MP2A	Z	29.026	6.5
27	MP2A	Mx	.022	6.5
28	MP2A	X	-16.758	9.5
29	MP2A	Z	29.026	9.5
30	MP2A	Mx	.022	9.5
31	MP4A	X	-8.248	1.5
32	MP4A	Z	14.286	1.5
33	MP4A	Mx	0	1.5
34	MP4A	X	-8.248	3.5
35	MP4A	Z	14.286	3.5
36	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-27.533	1
2	MP1A	Z	15.896	1
3	MP1A	Mx	.013	1
4	MP1A	X	-27.533	4
5	MP1A	Z	15.896	4
6	MP1A	Mx	.013	4
7	MP5A	X	-27.533	1
8	MP5A	Z	15.896	1
9	MP5A	Mx	.013	1
10	MP5A	X	-27.533	4
11	MP5A	Z	15.896	4
12	MP5A	Mx	.013	4
13	O1	X	-11.992	.75
14	O1	Z	6.923	.75
15	O1	Mx	0	.75
16	O2	X	-11.992	.75
17	O2	Z	6.923	.75
18	O2	Mx	0	.75
19	MP2A	X	-27.252	6.5
20	MP2A	Z	15.734	6.5
21	MP2A	Mx	-.005	6.5
22	MP2A	X	-27.252	9.5
23	MP2A	Z	15.734	9.5
24	MP2A	Mx	-.005	9.5
25	MP2A	X	-27.252	6.5
26	MP2A	Z	15.734	6.5
27	MP2A	Mx	.031	6.5
28	MP2A	X	-27.252	9.5
29	MP2A	Z	15.734	9.5
30	MP2A	Mx	.031	9.5
31	MP4A	X	-12.227	1.5
32	MP4A	Z	7.059	1.5
33	MP4A	Mx	.006	1.5
34	MP4A	X	-12.227	3.5
35	MP4A	Z	7.059	3.5
36	MP4A	Mx	.006	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-30.149	1
2	MP1A	Z	0	1
3	MP1A	Mx	.022	1
4	MP1A	X	-30.149	4
5	MP1A	Z	0	4
6	MP1A	Mx	.022	4
7	MP5A	X	-30.149	1
8	MP5A	Z	0	1
9	MP5A	Mx	.022	1
10	MP5A	X	-30.149	4
11	MP5A	Z	0	4
12	MP5A	Mx	.022	4
13	O1	X	-12.786	.75
14	O1	Z	0	.75
15	O1	Mx	0	.75
16	O2	X	-12.383	.75
17	O2	Z	0	.75
18	O2	Mx	0	.75
19	MP2A	X	-27.37	6.5
20	MP2A	Z	0	6.5
21	MP2A	Mx	.011	6.5
22	MP2A	X	-27.37	9.5
23	MP2A	Z	0	9.5
24	MP2A	Mx	.011	9.5
25	MP2A	X	-27.37	6.5
26	MP2A	Z	0	6.5
27	MP2A	Mx	.029	6.5
28	MP2A	X	-27.37	9.5
29	MP2A	Z	0	9.5
30	MP2A	Mx	.029	9.5
31	MP4A	X	-9.361	1.5
32	MP4A	Z	0	1.5
33	MP4A	Mx	.007	1.5
34	MP4A	X	-9.361	3.5
35	MP4A	Z	0	3.5
36	MP4A	Mx	.007	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-25.398	1
2	MP1A	Z	-14.663	1
3	MP1A	Mx	.024	1
4	MP1A	X	-25.398	4
5	MP1A	Z	-14.663	4
6	MP1A	Mx	.024	4
7	MP5A	X	-25.398	1
8	MP5A	Z	-14.663	1
9	MP5A	Mx	.024	1
10	MP5A	X	-25.398	4
11	MP5A	Z	-14.663	4
12	MP5A	Mx	.024	4
13	O1	X	-9.236	.75
14	O1	Z	-5.332	.75
15	O1	Mx	0	.75
16	O2	X	-8.189	.75
17	O2	Z	-4.728	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	O2	Mx	0	.75
19	MP2A	X	-21.929	6.5
20	MP2A	Z	-12.661	6.5
21	MP2A	Mx	.021	6.5
22	MP2A	X	-21.929	9.5
23	MP2A	Z	-12.661	9.5
24	MP2A	Mx	.021	9.5
25	MP2A	X	-21.929	6.5
26	MP2A	Z	-12.661	6.5
27	MP2A	Mx	.021	6.5
28	MP2A	X	-21.929	9.5
29	MP2A	Z	-12.661	9.5
30	MP2A	Mx	.021	9.5
31	MP4A	X	-6.048	1.5
32	MP4A	Z	-3.492	1.5
33	MP4A	Mx	.006	1.5
34	MP4A	X	-6.048	3.5
35	MP4A	Z	-3.492	3.5
36	MP4A	Mx	.006	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-15.074	1
2	MP1A	Z	-26.109	1
3	MP1A	Mx	.022	1
4	MP1A	X	-15.074	4
5	MP1A	Z	-26.109	4
6	MP1A	Mx	.022	4
7	MP5A	X	-15.074	1
8	MP5A	Z	-26.109	1
9	MP5A	Mx	.022	1
10	MP5A	X	-15.074	4
11	MP5A	Z	-26.109	4
12	MP5A	Mx	.022	4
13	O1	X	-4.802	.75
14	O1	Z	-8.317	.75
15	O1	Mx	0	.75
16	O2	X	-3.996	.75
17	O2	Z	-6.921	.75
18	O2	Mx	0	.75
19	MP2A	X	-13.685	6.5
20	MP2A	Z	-23.704	6.5
21	MP2A	Mx	.029	6.5
22	MP2A	X	-13.685	9.5
23	MP2A	Z	-23.704	9.5
24	MP2A	Mx	.029	9.5
25	MP2A	X	-13.685	6.5
26	MP2A	Z	-23.704	6.5
27	MP2A	Mx	.011	6.5
28	MP2A	X	-13.685	9.5
29	MP2A	Z	-23.704	9.5
30	MP2A	Mx	.011	9.5
31	MP4A	X	-4.681	1.5
32	MP4A	Z	-8.107	1.5
33	MP4A	Mx	.007	1.5
34	MP4A	X	-4.681	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
35	MP4A	Z	-8.107	3.5
36	MP4A	Mx	.007	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	-10.541	1
3	MP1A	Mx	.004	1
4	MP1A	X	0	4
5	MP1A	Z	-10.541	4
6	MP1A	Mx	.004	4
7	MP5A	X	0	1
8	MP5A	Z	-10.541	1
9	MP5A	Mx	.004	1
10	MP5A	X	0	4
11	MP5A	Z	-10.541	4
12	MP5A	Mx	.004	4
13	O1	X	0	.75
14	O1	Z	-3.17	.75
15	O1	Mx	0	.75
16	O2	X	0	.75
17	O2	Z	-2.768	.75
18	O2	Mx	0	.75
19	MP2A	X	0	6.5
20	MP2A	Z	-10.42	6.5
21	MP2A	Mx	.01	6.5
22	MP2A	X	0	9.5
23	MP2A	Z	-10.42	9.5
24	MP2A	Mx	.01	9.5
25	MP2A	X	0	6.5
26	MP2A	Z	-10.42	6.5
27	MP2A	Mx	-.002	6.5
28	MP2A	X	0	9.5
29	MP2A	Z	-10.42	9.5
30	MP2A	Mx	-.002	9.5
31	MP4A	X	0	1.5
32	MP4A	Z	-4.496	1.5
33	MP4A	Mx	.002	1.5
34	MP4A	X	0	3.5
35	MP4A	Z	-4.496	3.5
36	MP4A	Mx	.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	5.415	1
2	MP1A	Z	-9.379	1
3	MP1A	Mx	0	1
4	MP1A	X	5.415	4
5	MP1A	Z	-9.379	4
6	MP1A	Mx	0	4
7	MP5A	X	5.415	1
8	MP5A	Z	-9.379	1
9	MP5A	Mx	0	1
10	MP5A	X	5.415	4
11	MP5A	Z	-9.379	4
12	MP5A	Mx	0	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
13	O1	X	1.935	.75
14	O1	Z	-3.351	.75
15	O1	Mx	0	.75
16	O2	X	1.868	.75
17	O2	Z	-3.235	.75
18	O2	Mx	0	.75
19	MP2A	X	5.567	6.5
20	MP2A	Z	-9.643	6.5
21	MP2A	Mx	.007	6.5
22	MP2A	X	5.567	9.5
23	MP2A	Z	-9.643	9.5
24	MP2A	Mx	.007	9.5
25	MP2A	X	5.567	6.5
26	MP2A	Z	-9.643	6.5
27	MP2A	Mx	-.007	6.5
28	MP2A	X	5.567	9.5
29	MP2A	Z	-9.643	9.5
30	MP2A	Mx	-.007	9.5
31	MP4A	X	2.651	1.5
32	MP4A	Z	-4.592	1.5
33	MP4A	Mx	0	1.5
34	MP4A	X	2.651	3.5
35	MP4A	Z	-4.592	3.5
36	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	9.129	1
2	MP1A	Z	-5.27	1
3	MP1A	Mx	-.004	1
4	MP1A	X	9.129	4
5	MP1A	Z	-5.27	4
6	MP1A	Mx	-.004	4
7	MP5A	X	9.129	1
8	MP5A	Z	-5.27	1
9	MP5A	Mx	-.004	1
10	MP5A	X	9.129	4
11	MP5A	Z	-5.27	4
12	MP5A	Mx	-.004	4
13	O1	X	3.654	.75
14	O1	Z	-2.11	.75
15	O1	Mx	0	.75
16	O2	X	3.654	.75
17	O2	Z	-2.11	.75
18	O2	Mx	0	.75
19	MP2A	X	9.024	6.5
20	MP2A	Z	-5.21	6.5
21	MP2A	Mx	.002	6.5
22	MP2A	X	9.024	9.5
23	MP2A	Z	-5.21	9.5
24	MP2A	Mx	.002	9.5
25	MP2A	X	9.024	6.5
26	MP2A	Z	-5.21	6.5
27	MP2A	Mx	-.01	6.5
28	MP2A	X	9.024	9.5
29	MP2A	Z	-5.21	9.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP2A	Mx	-.01	9.5
31	MP4A	X	3.893	1.5
32	MP4A	Z	-2.248	1.5
33	MP4A	Mx	-.002	1.5
34	MP4A	X	3.893	3.5
35	MP4A	Z	-2.248	3.5
36	MP4A	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	9.962	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.007	1
4	MP1A	X	9.962	4
5	MP1A	Z	0	4
6	MP1A	Mx	-.007	4
7	MP5A	X	9.962	1
8	MP5A	Z	0	1
9	MP5A	Mx	-.007	1
10	MP5A	X	9.962	4
11	MP5A	Z	0	4
12	MP5A	Mx	-.007	4
13	O1	X	3.869	.75
14	O1	Z	0	.75
15	O1	Mx	0	.75
16	O2	X	3.735	.75
17	O2	Z	0	.75
18	O2	Mx	0	.75
19	MP2A	X	8.992	6.5
20	MP2A	Z	0	6.5
21	MP2A	Mx	-.003	6.5
22	MP2A	X	8.992	9.5
23	MP2A	Z	0	9.5
24	MP2A	Mx	-.003	9.5
25	MP2A	X	8.992	6.5
26	MP2A	Z	0	6.5
27	MP2A	Mx	-.009	6.5
28	MP2A	X	8.992	9.5
29	MP2A	Z	0	9.5
30	MP2A	Mx	-.009	9.5
31	MP4A	X	2.882	1.5
32	MP4A	Z	0	1.5
33	MP4A	Mx	-.002	1.5
34	MP4A	X	2.882	3.5
35	MP4A	Z	0	3.5
36	MP4A	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	8.377	1
2	MP1A	Z	4.837	1
3	MP1A	Mx	-.008	1
4	MP1A	X	8.377	4
5	MP1A	Z	4.837	4
6	MP1A	Mx	-.008	4
7	MP5A	X	8.377	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
8	MP5A	Z	4.837	1
9	MP5A	Mx	-0.08	1
10	MP5A	X	8.377	4
11	MP5A	Z	4.837	4
12	MP5A	Mx	-0.08	4
13	O1	X	2.745	.75
14	O1	Z	1.585	.75
15	O1	Mx	0	.75
16	O2	X	2.397	.75
17	O2	Z	1.384	.75
18	O2	Mx	0	.75
19	MP2A	X	7.169	6.5
20	MP2A	Z	4.139	6.5
21	MP2A	Mx	-0.07	6.5
22	MP2A	X	7.169	9.5
23	MP2A	Z	4.139	9.5
24	MP2A	Mx	-0.07	9.5
25	MP2A	X	7.169	6.5
26	MP2A	Z	4.139	6.5
27	MP2A	Mx	-0.07	6.5
28	MP2A	X	7.169	9.5
29	MP2A	Z	4.139	9.5
30	MP2A	Mx	-0.07	9.5
31	MP4A	X	1.798	1.5
32	MP4A	Z	1.038	1.5
33	MP4A	Mx	-0.02	1.5
34	MP4A	X	1.798	3.5
35	MP4A	Z	1.038	3.5
36	MP4A	Mx	-0.02	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	4.981	1
2	MP1A	Z	8.628	1
3	MP1A	Mx	-0.07	1
4	MP1A	X	4.981	4
5	MP1A	Z	8.628	4
6	MP1A	Mx	-0.07	4
7	MP5A	X	4.981	1
8	MP5A	Z	8.628	1
9	MP5A	Mx	-0.07	1
10	MP5A	X	4.981	4
11	MP5A	Z	8.628	4
12	MP5A	Mx	-0.07	4
13	O1	X	1.41	.75
14	O1	Z	2.442	.75
15	O1	Mx	0	.75
16	O2	X	1.142	.75
17	O2	Z	1.978	.75
18	O2	Mx	0	.75
19	MP2A	X	4.496	6.5
20	MP2A	Z	7.787	6.5
21	MP2A	Mx	-0.09	6.5
22	MP2A	X	4.496	9.5
23	MP2A	Z	7.787	9.5
24	MP2A	Mx	-0.09	9.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
25	MP2A	X	4.496	6.5
26	MP2A	Z	7.787	6.5
27	MP2A	Mx	-.003	6.5
28	MP2A	X	4.496	9.5
29	MP2A	Z	7.787	9.5
30	MP2A	Mx	-.003	9.5
31	MP4A	X	1.441	1.5
32	MP4A	Z	2.496	1.5
33	MP4A	Mx	-.002	1.5
34	MP4A	X	1.441	3.5
35	MP4A	Z	2.496	3.5
36	MP4A	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	10.541	1
3	MP1A	Mx	-.004	1
4	MP1A	X	0	4
5	MP1A	Z	10.541	4
6	MP1A	Mx	-.004	4
7	MP5A	X	0	1
8	MP5A	Z	10.541	1
9	MP5A	Mx	-.004	1
10	MP5A	X	0	4
11	MP5A	Z	10.541	4
12	MP5A	Mx	-.004	4
13	O1	X	0	.75
14	O1	Z	3.17	.75
15	O1	Mx	0	.75
16	O2	X	0	.75
17	O2	Z	2.768	.75
18	O2	Mx	0	.75
19	MP2A	X	0	6.5
20	MP2A	Z	10.42	6.5
21	MP2A	Mx	-.01	6.5
22	MP2A	X	0	9.5
23	MP2A	Z	10.42	9.5
24	MP2A	Mx	-.01	9.5
25	MP2A	X	0	6.5
26	MP2A	Z	10.42	6.5
27	MP2A	Mx	.002	6.5
28	MP2A	X	0	9.5
29	MP2A	Z	10.42	9.5
30	MP2A	Mx	.002	9.5
31	MP4A	X	0	1.5
32	MP4A	Z	4.496	1.5
33	MP4A	Mx	-.002	1.5
34	MP4A	X	0	3.5
35	MP4A	Z	4.496	3.5
36	MP4A	Mx	-.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-5.415	1
2	MP1A	Z	9.379	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP1A	Mx	0	1
4	MP1A	X	-5.415	4
5	MP1A	Z	9.379	4
6	MP1A	Mx	0	4
7	MP5A	X	-5.415	1
8	MP5A	Z	9.379	1
9	MP5A	Mx	0	1
10	MP5A	X	-5.415	4
11	MP5A	Z	9.379	4
12	MP5A	Mx	0	4
13	O1	X	-1.935	.75
14	O1	Z	3.351	.75
15	O1	Mx	0	.75
16	O2	X	-1.868	.75
17	O2	Z	3.235	.75
18	O2	Mx	0	.75
19	MP2A	X	-5.567	6.5
20	MP2A	Z	9.643	6.5
21	MP2A	Mx	-.007	6.5
22	MP2A	X	-5.567	9.5
23	MP2A	Z	9.643	9.5
24	MP2A	Mx	-.007	9.5
25	MP2A	X	-5.567	6.5
26	MP2A	Z	9.643	6.5
27	MP2A	Mx	.007	6.5
28	MP2A	X	-5.567	9.5
29	MP2A	Z	9.643	9.5
30	MP2A	Mx	.007	9.5
31	MP4A	X	-2.651	1.5
32	MP4A	Z	4.592	1.5
33	MP4A	Mx	0	1.5
34	MP4A	X	-2.651	3.5
35	MP4A	Z	4.592	3.5
36	MP4A	Mx	0	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-9.129	1
2	MP1A	Z	5.27	1
3	MP1A	Mx	.004	1
4	MP1A	X	-9.129	4
5	MP1A	Z	5.27	4
6	MP1A	Mx	.004	4
7	MP5A	X	-9.129	1
8	MP5A	Z	5.27	1
9	MP5A	Mx	.004	1
10	MP5A	X	-9.129	4
11	MP5A	Z	5.27	4
12	MP5A	Mx	.004	4
13	O1	X	-3.654	.75
14	O1	Z	2.11	.75
15	O1	Mx	0	.75
16	O2	X	-3.654	.75
17	O2	Z	2.11	.75
18	O2	Mx	0	.75
19	MP2A	X	-9.024	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
20	MP2A	Z	5.21	6.5
21	MP2A	Mx	-.002	6.5
22	MP2A	X	-9.024	9.5
23	MP2A	Z	5.21	9.5
24	MP2A	Mx	-.002	9.5
25	MP2A	X	-9.024	6.5
26	MP2A	Z	5.21	6.5
27	MP2A	Mx	.01	6.5
28	MP2A	X	-9.024	9.5
29	MP2A	Z	5.21	9.5
30	MP2A	Mx	.01	9.5
31	MP4A	X	-3.893	1.5
32	MP4A	Z	2.248	1.5
33	MP4A	Mx	.002	1.5
34	MP4A	X	-3.893	3.5
35	MP4A	Z	2.248	3.5
36	MP4A	Mx	.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-9.962	1
2	MP1A	Z	0	1
3	MP1A	Mx	.007	1
4	MP1A	X	-9.962	4
5	MP1A	Z	0	4
6	MP1A	Mx	.007	4
7	MP5A	X	-9.962	1
8	MP5A	Z	0	1
9	MP5A	Mx	.007	1
10	MP5A	X	-9.962	4
11	MP5A	Z	0	4
12	MP5A	Mx	.007	4
13	O1	X	-3.869	.75
14	O1	Z	0	.75
15	O1	Mx	0	.75
16	O2	X	-3.735	.75
17	O2	Z	0	.75
18	O2	Mx	0	.75
19	MP2A	X	-8.992	6.5
20	MP2A	Z	0	6.5
21	MP2A	Mx	.003	6.5
22	MP2A	X	-8.992	9.5
23	MP2A	Z	0	9.5
24	MP2A	Mx	.003	9.5
25	MP2A	X	-8.992	6.5
26	MP2A	Z	0	6.5
27	MP2A	Mx	.009	6.5
28	MP2A	X	-8.992	9.5
29	MP2A	Z	0	9.5
30	MP2A	Mx	.009	9.5
31	MP4A	X	-2.882	1.5
32	MP4A	Z	0	1.5
33	MP4A	Mx	.002	1.5
34	MP4A	X	-2.882	3.5
35	MP4A	Z	0	3.5
36	MP4A	Mx	.002	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-8.377	1
2	MP1A	Z	-4.837	1
3	MP1A	Mx	.008	1
4	MP1A	X	-8.377	4
5	MP1A	Z	-4.837	4
6	MP1A	Mx	.008	4
7	MP5A	X	-8.377	1
8	MP5A	Z	-4.837	1
9	MP5A	Mx	.008	1
10	MP5A	X	-8.377	4
11	MP5A	Z	-4.837	4
12	MP5A	Mx	.008	4
13	O1	X	-2.745	.75
14	O1	Z	-1.585	.75
15	O1	Mx	0	.75
16	O2	X	-2.397	.75
17	O2	Z	-1.384	.75
18	O2	Mx	0	.75
19	MP2A	X	-7.169	6.5
20	MP2A	Z	-4.139	6.5
21	MP2A	Mx	.007	6.5
22	MP2A	X	-7.169	9.5
23	MP2A	Z	-4.139	9.5
24	MP2A	Mx	.007	9.5
25	MP2A	X	-7.169	6.5
26	MP2A	Z	-4.139	6.5
27	MP2A	Mx	.007	6.5
28	MP2A	X	-7.169	9.5
29	MP2A	Z	-4.139	9.5
30	MP2A	Mx	.007	9.5
31	MP4A	X	-1.798	1.5
32	MP4A	Z	-1.038	1.5
33	MP4A	Mx	.002	1.5
34	MP4A	X	-1.798	3.5
35	MP4A	Z	-1.038	3.5
36	MP4A	Mx	.002	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-4.981	1
2	MP1A	Z	-8.628	1
3	MP1A	Mx	.007	1
4	MP1A	X	-4.981	4
5	MP1A	Z	-8.628	4
6	MP1A	Mx	.007	4
7	MP5A	X	-4.981	1
8	MP5A	Z	-8.628	1
9	MP5A	Mx	.007	1
10	MP5A	X	-4.981	4
11	MP5A	Z	-8.628	4
12	MP5A	Mx	.007	4
13	O1	X	-1.41	.75
14	O1	Z	-2.442	.75
15	O1	Mx	0	.75
16	O2	X	-1.142	.75
17	O2	Z	-1.978	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
18	O2	Mx	0	.75
19	MP2A	X	-4.496	6.5
20	MP2A	Z	-7.787	6.5
21	MP2A	Mx	.009	6.5
22	MP2A	X	-4.496	9.5
23	MP2A	Z	-7.787	9.5
24	MP2A	Mx	.009	9.5
25	MP2A	X	-4.496	6.5
26	MP2A	Z	-7.787	6.5
27	MP2A	Mx	.003	6.5
28	MP2A	X	-4.496	9.5
29	MP2A	Z	-7.787	9.5
30	MP2A	Mx	.003	9.5
31	MP4A	X	-1.441	1.5
32	MP4A	Z	-2.496	1.5
33	MP4A	Mx	.002	1.5
34	MP4A	X	-1.441	3.5
35	MP4A	Z	-2.496	3.5
36	MP4A	Mx	.002	3.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M10	Y	-500	%71.2

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M10	Y	-500	%28.4

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M10	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M10	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-7.936	-7.936	0	%100
2	M3	Y	-7.936	-7.936	0	%100
3	M7	Y	-5.158	-5.158	0	%100
4	M10	Y	-5.158	-5.158	0	%100
5	M49	Y	-4.504	-4.504	0	%100
6	M50	Y	-4.504	-4.504	0	%100
7	M47A	Y	-5.352	-5.352	0	%100
8	M48A	Y	-5.352	-5.352	0	%100
9	M37A	Y	-4.06	-4.06	0	%100
10	M38A	Y	-4.06	-4.06	0	%100
11	M39	Y	-4.06	-4.06	0	%100
12	M40A	Y	-3.569	-3.569	0	%100
13	M41A	Y	-3.569	-3.569	0	%100
14	O1	Y	-4.504	-4.504	0	%100
15	M43A	Y	-4.06	-4.06	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
16	M44A	Y	-3.569	-3.569	0	%100
17	M45	Y	-3.569	-3.569	0	%100
18	M46	Y	-4.06	-4.06	0	%100
19	M47B	Y	-4.06	-4.06	0	%100
20	M35	Y	-4.504	-4.504	0	%100
21	M36	Y	-4.504	-4.504	0	%100
22	M37B	Y	-5.352	-5.352	0	%100
23	M38B	Y	-5.352	-5.352	0	%100
24	M39A	Y	-4.06	-4.06	0	%100
25	M40B	Y	-4.06	-4.06	0	%100
26	M41B	Y	-4.06	-4.06	0	%100
27	M42A	Y	-3.569	-3.569	0	%100
28	M43B	Y	-3.569	-3.569	0	%100
29	O2	Y	-4.504	-4.504	0	%100
30	M45A	Y	-4.06	-4.06	0	%100
31	M46B	Y	-3.569	-3.569	0	%100
32	M47C	Y	-3.569	-3.569	0	%100
33	M48B	Y	-4.06	-4.06	0	%100
34	M49A	Y	-4.06	-4.06	0	%100
35	MP5A	Y	-4.504	-4.504	0	%100
36	MP1A	Y	-4.504	-4.504	0	%100
37	MP3A	Y	-4.504	-4.504	0	%100
38	MP2A	Y	-4.504	-4.504	0	%100
39	MP4A	Y	-4.504	-4.504	0	%100
40	M56	Y	-4.504	-4.504	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-10.65	-10.65	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	-10.65	-10.65	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-10.206	-10.206	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	-10.206	-10.206	0	%100
9	M49	X	0	0	0	%100
10	M49	Z	-4.175	-4.175	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-4.175	-4.175	0	%100
13	M47A	X	0	0	0	%100
14	M47A	Z	-.659	-.659	0	%100
15	M48A	X	0	0	0	%100
16	M48A	Z	-.659	-.659	0	%100
17	M37A	X	0	0	0	%100
18	M37A	Z	-1.615	-1.615	0	%100
19	M38A	X	0	0	0	%100
20	M38A	Z	-1.565	-1.565	0	%100
21	M39	X	0	0	0	%100
22	M39	Z	-1.565	-1.565	0	%100
23	M40A	X	0	0	0	%100
24	M40A	Z	-4.106	-4.106	0	%100
25	M41A	X	0	0	0	%100
26	M41A	Z	-4.106	-4.106	0	%100
27	O1	X	0	0	0	%100
28	O1	Z	-5.387	-5.387	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
29	M43A	X	0	0	0	%100
30	M43A	Z	-1.615	-1.615	0	%100
31	M44A	X	0	0	0	%100
32	M44A	Z	-4.505	-4.505	0	%100
33	M45	X	0	0	0	%100
34	M45	Z	-4.505	-4.505	0	%100
35	M46	X	0	0	0	%100
36	M46	Z	-1.565	-1.565	0	%100
37	M47B	X	0	0	0	%100
38	M47B	Z	-1.565	-1.565	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	-4.175	-4.175	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-4.175	-4.175	0	%100
43	M37B	X	0	0	0	%100
44	M37B	Z	-.659	-.659	0	%100
45	M38B	X	0	0	0	%100
46	M38B	Z	-.659	-.659	0	%100
47	M39A	X	0	0	0	%100
48	M39A	Z	-1.615	-1.615	0	%100
49	M40B	X	0	0	0	%100
50	M40B	Z	-1.565	-1.565	0	%100
51	M41B	X	0	0	0	%100
52	M41B	Z	-1.565	-1.565	0	%100
53	M42A	X	0	0	0	%100
54	M42A	Z	-4.106	-4.106	0	%100
55	M43B	X	0	0	0	%100
56	M43B	Z	-4.106	-4.106	0	%100
57	O2	X	0	0	0	%100
58	O2	Z	-5.387	-5.387	0	%100
59	M45A	X	0	0	0	%100
60	M45A	Z	-1.615	-1.615	0	%100
61	M46B	X	0	0	0	%100
62	M46B	Z	-4.505	-4.505	0	%100
63	M47C	X	0	0	0	%100
64	M47C	Z	-4.505	-4.505	0	%100
65	M48B	X	0	0	0	%100
66	M48B	Z	-1.565	-1.565	0	%100
67	M49A	X	0	0	0	%100
68	M49A	Z	-1.565	-1.565	0	%100
69	MP5A	X	0	0	0	%100
70	MP5A	Z	-7.338	-7.338	0	%100
71	MP1A	X	0	0	0	%100
72	MP1A	Z	-7.338	-7.338	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-7.338	-7.338	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-7.338	-7.338	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	-7.338	-7.338	0	%100
79	M56	X	0	0	0	%100
80	M56	Z	-.565	-.565	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.994	3.994	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
2	M1	Z	-6.918	-6.918	0 %100
3	M3	X	3.994	3.994	0 %100
4	M3	Z	-6.918	-6.918	0 %100
5	M7	X	3.827	3.827	0 %100
6	M7	Z	-6.629	-6.629	0 %100
7	M10	X	3.827	3.827	0 %100
8	M10	Z	-6.629	-6.629	0 %100
9	M49	X	.272	.272	0 %100
10	M49	Z	-.471	-.471	0 %100
11	M50	X	.272	.272	0 %100
12	M50	Z	-.471	-.471	0 %100
13	M47A	X	.043	.043	0 %100
14	M47A	Z	-.074	-.074	0 %100
15	M48A	X	.043	.043	0 %100
16	M48A	Z	-.074	-.074	0 %100
17	M37A	X	1.493	1.493	0 %100
18	M37A	Z	-2.586	-2.586	0 %100
19	M38A	X	1.475	1.475	0 %100
20	M38A	Z	-2.554	-2.554	0 %100
21	M39	X	1.475	1.475	0 %100
22	M39	Z	-2.554	-2.554	0 %100
23	M40A	X	1.314	1.314	0 %100
24	M40A	Z	-2.276	-2.276	0 %100
25	M41A	X	1.314	1.314	0 %100
26	M41A	Z	-2.276	-2.276	0 %100
27	O1	X	2.767	2.767	0 %100
28	O1	Z	-4.793	-4.793	0 %100
29	M43A	X	1.493	1.493	0 %100
30	M43A	Z	-2.586	-2.586	0 %100
31	M44A	X	2.319	2.319	0 %100
32	M44A	Z	-4.017	-4.017	0 %100
33	M45	X	2.319	2.319	0 %100
34	M45	Z	-4.017	-4.017	0 %100
35	M46	X	1.475	1.475	0 %100
36	M46	Z	-2.554	-2.554	0 %100
37	M47B	X	1.475	1.475	0 %100
38	M47B	Z	-2.554	-2.554	0 %100
39	M35	X	3.923	3.923	0 %100
40	M35	Z	-6.795	-6.795	0 %100
41	M36	X	3.923	3.923	0 %100
42	M36	Z	-6.795	-6.795	0 %100
43	M37B	X	.619	.619	0 %100
44	M37B	Z	-1.073	-1.073	0 %100
45	M38B	X	.619	.619	0 %100
46	M38B	Z	-1.073	-1.073	0 %100
47	M39A	X	1.493	1.493	0 %100
48	M39A	Z	-2.586	-2.586	0 %100
49	M40B	X	1.475	1.475	0 %100
50	M40B	Z	-2.554	-2.554	0 %100
51	M41B	X	1.475	1.475	0 %100
52	M41B	Z	-2.554	-2.554	0 %100
53	M42A	X	2.8	2.8	0 %100
54	M42A	Z	-4.849	-4.849	0 %100
55	M43B	X	2.8	2.8	0 %100
56	M43B	Z	-4.849	-4.849	0 %100
57	O2	X	2.767	2.767	0 %100
58	O2	Z	-4.793	-4.793	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
59	M45A	X	1.493	1.493	0	%100
60	M45A	Z	-2.586	-2.586	0	%100
61	M46B	X	2.319	2.319	0	%100
62	M46B	Z	-4.017	-4.017	0	%100
63	M47C	X	2.319	2.319	0	%100
64	M47C	Z	-4.017	-4.017	0	%100
65	M48B	X	1.475	1.475	0	%100
66	M48B	Z	-2.554	-2.554	0	%100
67	M49A	X	1.475	1.475	0	%100
68	M49A	Z	-2.554	-2.554	0	%100
69	MP5A	X	3.806	3.806	0	%100
70	MP5A	Z	-6.592	-6.592	0	%100
71	MP1A	X	3.806	3.806	0	%100
72	MP1A	Z	-6.592	-6.592	0	%100
73	MP3A	X	3.806	3.806	0	%100
74	MP3A	Z	-6.592	-6.592	0	%100
75	MP2A	X	3.806	3.806	0	%100
76	MP2A	Z	-6.592	-6.592	0	%100
77	MP4A	X	3.794	3.794	0	%100
78	MP4A	Z	-6.572	-6.572	0	%100
79	M56	X	.282	.282	0	%100
80	M56	Z	-.489	-.489	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.306	2.306	0	%100
2	M1	Z	-1.331	-1.331	0	%100
3	M3	X	2.306	2.306	0	%100
4	M3	Z	-1.331	-1.331	0	%100
5	M7	X	2.21	2.21	0	%100
6	M7	Z	-1.276	-1.276	0	%100
7	M10	X	2.21	2.21	0	%100
8	M10	Z	-1.276	-1.276	0	%100
9	M49	X	.507	.507	0	%100
10	M49	Z	-.293	-.293	0	%100
11	M50	X	.507	.507	0	%100
12	M50	Z	-.293	-.293	0	%100
13	M47A	X	.08	.08	0	%100
14	M47A	Z	-.046	-.046	0	%100
15	M48A	X	.08	.08	0	%100
16	M48A	Z	-.046	-.046	0	%100
17	M37A	X	4.961	4.961	0	%100
18	M37A	Z	-2.864	-2.864	0	%100
19	M38A	X	4.951	4.951	0	%100
20	M38A	Z	-2.858	-2.858	0	%100
21	M39	X	4.951	4.951	0	%100
22	M39	Z	-2.858	-2.858	0	%100
23	M40A	X	2.291	2.291	0	%100
24	M40A	Z	-1.323	-1.323	0	%100
25	M41A	X	2.291	2.291	0	%100
26	M41A	Z	-1.323	-1.323	0	%100
27	O1	X	5.047	5.047	0	%100
28	O1	Z	-2.914	-2.914	0	%100
29	M43A	X	4.961	4.961	0	%100
30	M43A	Z	-2.864	-2.864	0	%100
31	M44A	X	4.248	4.248	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
32	M44A	Z	-2.453	-2.453	0	%100
33	M45	X	4.248	4.248	0	%100
34	M45	Z	-2.453	-2.453	0	%100
35	M46	X	4.951	4.951	0	%100
36	M46	Z	-2.858	-2.858	0	%100
37	M47B	X	4.951	4.951	0	%100
38	M47B	Z	-2.858	-2.858	0	%100
39	M35	X	6.83	6.83	0	%100
40	M35	Z	-3.944	-3.944	0	%100
41	M36	X	6.83	6.83	0	%100
42	M36	Z	-3.944	-3.944	0	%100
43	M37B	X	1.078	1.078	0	%100
44	M37B	Z	-.623	-.623	0	%100
45	M38B	X	1.078	1.078	0	%100
46	M38B	Z	-.623	-.623	0	%100
47	M39A	X	4.961	4.961	0	%100
48	M39A	Z	-2.864	-2.864	0	%100
49	M40B	X	4.951	4.951	0	%100
50	M40B	Z	-2.858	-2.858	0	%100
51	M41B	X	4.951	4.951	0	%100
52	M41B	Z	-2.858	-2.858	0	%100
53	M42A	X	4.864	4.864	0	%100
54	M42A	Z	-2.808	-2.808	0	%100
55	M43B	X	4.864	4.864	0	%100
56	M43B	Z	-2.808	-2.808	0	%100
57	O2	X	5.047	5.047	0	%100
58	O2	Z	-2.914	-2.914	0	%100
59	M45A	X	4.961	4.961	0	%100
60	M45A	Z	-2.864	-2.864	0	%100
61	M46B	X	4.248	4.248	0	%100
62	M46B	Z	-2.453	-2.453	0	%100
63	M47C	X	4.248	4.248	0	%100
64	M47C	Z	-2.453	-2.453	0	%100
65	M48B	X	4.951	4.951	0	%100
66	M48B	Z	-2.858	-2.858	0	%100
67	M49A	X	4.951	4.951	0	%100
68	M49A	Z	-2.858	-2.858	0	%100
69	MP5A	X	7.065	7.065	0	%100
70	MP5A	Z	-4.079	-4.079	0	%100
71	MP1A	X	7.065	7.065	0	%100
72	MP1A	Z	-4.079	-4.079	0	%100
73	MP3A	X	7.065	7.065	0	%100
74	MP3A	Z	-4.079	-4.079	0	%100
75	MP2A	X	7.065	7.065	0	%100
76	MP2A	Z	-4.079	-4.079	0	%100
77	MP4A	X	7.006	7.006	0	%100
78	MP4A	Z	-4.045	-4.045	0	%100
79	M56	X	3.651	3.651	0	%100
80	M56	Z	-2.108	-2.108	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,kst]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
5	M7	X	0	0	%100	
6	M7	Z	0	0	%100	
7	M10	X	0	0	%100	
8	M10	Z	0	0	%100	
9	M49	X	4.257	4.257	0	%100
10	M49	Z	0	0	0	%100
11	M50	X	4.257	4.257	0	%100
12	M50	Z	0	0	0	%100
13	M47A	X	.672	.672	0	%100
14	M47A	Z	0	0	0	%100
15	M48A	X	.672	.672	0	%100
16	M48A	Z	0	0	0	%100
17	M37A	X	7.1	7.1	0	%100
18	M37A	Z	0	0	0	%100
19	M38A	X	7.1	7.1	0	%100
20	M38A	Z	0	0	0	%100
21	M39	X	7.1	7.1	0	%100
22	M39	Z	0	0	0	%100
23	M40A	X	4.139	4.139	0	%100
24	M40A	Z	0	0	0	%100
25	M41A	X	4.139	4.139	0	%100
26	M41A	Z	0	0	0	%100
27	O1	X	5.974	5.974	0	%100
28	O1	Z	0	0	0	%100
29	M43A	X	7.1	7.1	0	%100
30	M43A	Z	0	0	0	%100
31	M44A	X	5.038	5.038	0	%100
32	M44A	Z	0	0	0	%100
33	M45	X	5.038	5.038	0	%100
34	M45	Z	0	0	0	%100
35	M46	X	7.1	7.1	0	%100
36	M46	Z	0	0	0	%100
37	M47B	X	7.1	7.1	0	%100
38	M47B	Z	0	0	0	%100
39	M35	X	4.257	4.257	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	4.257	4.257	0	%100
42	M36	Z	0	0	0	%100
43	M37B	X	.672	.672	0	%100
44	M37B	Z	0	0	0	%100
45	M38B	X	.672	.672	0	%100
46	M38B	Z	0	0	0	%100
47	M39A	X	7.1	7.1	0	%100
48	M39A	Z	0	0	0	%100
49	M40B	X	7.1	7.1	0	%100
50	M40B	Z	0	0	0	%100
51	M41B	X	7.1	7.1	0	%100
52	M41B	Z	0	0	0	%100
53	M42A	X	4.139	4.139	0	%100
54	M42A	Z	0	0	0	%100
55	M43B	X	4.139	4.139	0	%100
56	M43B	Z	0	0	0	%100
57	O2	X	5.974	5.974	0	%100
58	O2	Z	0	0	0	%100
59	M45A	X	7.1	7.1	0	%100
60	M45A	Z	0	0	0	%100
61	M46B	X	5.038	5.038	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]	
62	M46B	Z	0	0	%100	
63	M47C	X	5.038	5.038	0	%100
64	M47C	Z	0	0	0	%100
65	M48B	X	7.1	7.1	0	%100
66	M48B	Z	0	0	0	%100
67	M49A	X	7.1	7.1	0	%100
68	M49A	Z	0	0	0	%100
69	MP5A	X	8.431	8.431	0	%100
70	MP5A	Z	0	0	0	%100
71	MP1A	X	8.431	8.431	0	%100
72	MP1A	Z	0	0	0	%100
73	MP3A	X	8.431	8.431	0	%100
74	MP3A	Z	0	0	0	%100
75	MP2A	X	8.431	8.431	0	%100
76	MP2A	Z	0	0	0	%100
77	MP4A	X	8.341	8.341	0	%100
78	MP4A	Z	0	0	0	%100
79	M56	X	7.867	7.867	0	%100
80	M56	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]	
1	M1	X	2.306	2.306	0	%100
2	M1	Z	1.331	1.331	0	%100
3	M3	X	2.306	2.306	0	%100
4	M3	Z	1.331	1.331	0	%100
5	M7	X	2.21	2.21	0	%100
6	M7	Z	1.276	1.276	0	%100
7	M10	X	2.21	2.21	0	%100
8	M10	Z	1.276	1.276	0	%100
9	M49	X	6.83	6.83	0	%100
10	M49	Z	3.944	3.944	0	%100
11	M50	X	6.83	6.83	0	%100
12	M50	Z	3.944	3.944	0	%100
13	M47A	X	1.078	1.078	0	%100
14	M47A	Z	.623	.623	0	%100
15	M48A	X	1.078	1.078	0	%100
16	M48A	Z	.623	.623	0	%100
17	M37A	X	4.961	4.961	0	%100
18	M37A	Z	2.864	2.864	0	%100
19	M38A	X	4.951	4.951	0	%100
20	M38A	Z	2.858	2.858	0	%100
21	M39	X	4.951	4.951	0	%100
22	M39	Z	2.858	2.858	0	%100
23	M40A	X	4.864	4.864	0	%100
24	M40A	Z	2.808	2.808	0	%100
25	M41A	X	4.864	4.864	0	%100
26	M41A	Z	2.808	2.808	0	%100
27	O1	X	5.047	5.047	0	%100
28	O1	Z	2.914	2.914	0	%100
29	M43A	X	4.961	4.961	0	%100
30	M43A	Z	2.864	2.864	0	%100
31	M44A	X	4.248	4.248	0	%100
32	M44A	Z	2.453	2.453	0	%100
33	M45	X	4.248	4.248	0	%100
34	M45	Z	2.453	2.453	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
35	M46	X	4.951	4.951	0 %100
36	M46	Z	2.858	2.858	0 %100
37	M47B	X	4.951	4.951	0 %100
38	M47B	Z	2.858	2.858	0 %100
39	M35	X	.507	.507	0 %100
40	M35	Z	.293	.293	0 %100
41	M36	X	.507	.507	0 %100
42	M36	Z	.293	.293	0 %100
43	M37B	X	.08	.08	0 %100
44	M37B	Z	.046	.046	0 %100
45	M38B	X	.08	.08	0 %100
46	M38B	Z	.046	.046	0 %100
47	M39A	X	4.961	4.961	0 %100
48	M39A	Z	2.864	2.864	0 %100
49	M40B	X	4.951	4.951	0 %100
50	M40B	Z	2.858	2.858	0 %100
51	M41B	X	4.951	4.951	0 %100
52	M41B	Z	2.858	2.858	0 %100
53	M42A	X	2.291	2.291	0 %100
54	M42A	Z	1.323	1.323	0 %100
55	M43B	X	2.291	2.291	0 %100
56	M43B	Z	1.323	1.323	0 %100
57	O2	X	5.047	5.047	0 %100
58	O2	Z	2.914	2.914	0 %100
59	M45A	X	4.961	4.961	0 %100
60	M45A	Z	2.864	2.864	0 %100
61	M46B	X	4.248	4.248	0 %100
62	M46B	Z	2.453	2.453	0 %100
63	M47C	X	4.248	4.248	0 %100
64	M47C	Z	2.453	2.453	0 %100
65	M48B	X	4.951	4.951	0 %100
66	M48B	Z	2.858	2.858	0 %100
67	M49A	X	4.951	4.951	0 %100
68	M49A	Z	2.858	2.858	0 %100
69	MP5A	X	7.065	7.065	0 %100
70	MP5A	Z	4.079	4.079	0 %100
71	MP1A	X	7.065	7.065	0 %100
72	MP1A	Z	4.079	4.079	0 %100
73	MP3A	X	7.065	7.065	0 %100
74	MP3A	Z	4.079	4.079	0 %100
75	MP2A	X	7.065	7.065	0 %100
76	MP2A	Z	4.079	4.079	0 %100
77	MP4A	X	7.006	7.006	0 %100
78	MP4A	Z	4.045	4.045	0 %100
79	M56	X	6.813	6.813	0 %100
80	M56	Z	3.933	3.933	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	3.994	3.994	0 %100
2	M1	Z	6.918	6.918	0 %100
3	M3	X	3.994	3.994	0 %100
4	M3	Z	6.918	6.918	0 %100
5	M7	X	3.827	3.827	0 %100
6	M7	Z	6.629	6.629	0 %100
7	M10	X	3.827	3.827	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
8	M10	Z	6.629	6.629	0 %100
9	M49	X	3.923	3.923	0 %100
10	M49	Z	6.795	6.795	0 %100
11	M50	X	3.923	3.923	0 %100
12	M50	Z	6.795	6.795	0 %100
13	M47A	X	.619	.619	0 %100
14	M47A	Z	1.073	1.073	0 %100
15	M48A	X	.619	.619	0 %100
16	M48A	Z	1.073	1.073	0 %100
17	M37A	X	1.493	1.493	0 %100
18	M37A	Z	2.586	2.586	0 %100
19	M38A	X	1.475	1.475	0 %100
20	M38A	Z	2.554	2.554	0 %100
21	M39	X	1.475	1.475	0 %100
22	M39	Z	2.554	2.554	0 %100
23	M40A	X	2.8	2.8	0 %100
24	M40A	Z	4.849	4.849	0 %100
25	M41A	X	2.8	2.8	0 %100
26	M41A	Z	4.849	4.849	0 %100
27	O1	X	2.767	2.767	0 %100
28	O1	Z	4.793	4.793	0 %100
29	M43A	X	1.493	1.493	0 %100
30	M43A	Z	2.586	2.586	0 %100
31	M44A	X	2.319	2.319	0 %100
32	M44A	Z	4.017	4.017	0 %100
33	M45	X	2.319	2.319	0 %100
34	M45	Z	4.017	4.017	0 %100
35	M46	X	1.475	1.475	0 %100
36	M46	Z	2.554	2.554	0 %100
37	M47B	X	1.475	1.475	0 %100
38	M47B	Z	2.554	2.554	0 %100
39	M35	X	.272	.272	0 %100
40	M35	Z	.471	.471	0 %100
41	M36	X	.272	.272	0 %100
42	M36	Z	.471	.471	0 %100
43	M37B	X	.043	.043	0 %100
44	M37B	Z	.074	.074	0 %100
45	M38B	X	.043	.043	0 %100
46	M38B	Z	.074	.074	0 %100
47	M39A	X	1.493	1.493	0 %100
48	M39A	Z	2.586	2.586	0 %100
49	M40B	X	1.475	1.475	0 %100
50	M40B	Z	2.554	2.554	0 %100
51	M41B	X	1.475	1.475	0 %100
52	M41B	Z	2.554	2.554	0 %100
53	M42A	X	1.314	1.314	0 %100
54	M42A	Z	2.276	2.276	0 %100
55	M43B	X	1.314	1.314	0 %100
56	M43B	Z	2.276	2.276	0 %100
57	O2	X	2.767	2.767	0 %100
58	O2	Z	4.793	4.793	0 %100
59	M45A	X	1.493	1.493	0 %100
60	M45A	Z	2.586	2.586	0 %100
61	M46B	X	2.319	2.319	0 %100
62	M46B	Z	4.017	4.017	0 %100
63	M47C	X	2.319	2.319	0 %100
64	M47C	Z	4.017	4.017	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
65	M48B	X	1.475	1.475	0	%100
66	M48B	Z	2.554	2.554	0	%100
67	M49A	X	1.475	1.475	0	%100
68	M49A	Z	2.554	2.554	0	%100
69	MP5A	X	3.806	3.806	0	%100
70	MP5A	Z	6.592	6.592	0	%100
71	MP1A	X	3.806	3.806	0	%100
72	MP1A	Z	6.592	6.592	0	%100
73	MP3A	X	3.806	3.806	0	%100
74	MP3A	Z	6.592	6.592	0	%100
75	MP2A	X	3.806	3.806	0	%100
76	MP2A	Z	6.592	6.592	0	%100
77	MP4A	X	3.794	3.794	0	%100
78	MP4A	Z	6.572	6.572	0	%100
79	M56	X	2.108	2.108	0	%100
80	M56	Z	3.651	3.651	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	10.65	10.65	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	10.65	10.65	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	10.206	10.206	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	10.206	10.206	0	%100
9	M49	X	0	0	0	%100
10	M49	Z	4.175	4.175	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	4.175	4.175	0	%100
13	M47A	X	0	0	0	%100
14	M47A	Z	.659	.659	0	%100
15	M48A	X	0	0	0	%100
16	M48A	Z	.659	.659	0	%100
17	M37A	X	0	0	0	%100
18	M37A	Z	1.615	1.615	0	%100
19	M38A	X	0	0	0	%100
20	M38A	Z	1.565	1.565	0	%100
21	M39	X	0	0	0	%100
22	M39	Z	1.565	1.565	0	%100
23	M40A	X	0	0	0	%100
24	M40A	Z	4.106	4.106	0	%100
25	M41A	X	0	0	0	%100
26	M41A	Z	4.106	4.106	0	%100
27	O1	X	0	0	0	%100
28	O1	Z	5.387	5.387	0	%100
29	M43A	X	0	0	0	%100
30	M43A	Z	1.615	1.615	0	%100
31	M44A	X	0	0	0	%100
32	M44A	Z	4.505	4.505	0	%100
33	M45	X	0	0	0	%100
34	M45	Z	4.505	4.505	0	%100
35	M46	X	0	0	0	%100
36	M46	Z	1.565	1.565	0	%100
37	M47B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
38	M47B	Z	1.565	1.565	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	4.175	4.175	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	4.175	4.175	0	%100
43	M37B	X	0	0	0	%100
44	M37B	Z	.659	.659	0	%100
45	M38B	X	0	0	0	%100
46	M38B	Z	.659	.659	0	%100
47	M39A	X	0	0	0	%100
48	M39A	Z	1.615	1.615	0	%100
49	M40B	X	0	0	0	%100
50	M40B	Z	1.565	1.565	0	%100
51	M41B	X	0	0	0	%100
52	M41B	Z	1.565	1.565	0	%100
53	M42A	X	0	0	0	%100
54	M42A	Z	4.106	4.106	0	%100
55	M43B	X	0	0	0	%100
56	M43B	Z	4.106	4.106	0	%100
57	O2	X	0	0	0	%100
58	O2	Z	5.387	5.387	0	%100
59	M45A	X	0	0	0	%100
60	M45A	Z	1.615	1.615	0	%100
61	M46B	X	0	0	0	%100
62	M46B	Z	4.505	4.505	0	%100
63	M47C	X	0	0	0	%100
64	M47C	Z	4.505	4.505	0	%100
65	M48B	X	0	0	0	%100
66	M48B	Z	1.565	1.565	0	%100
67	M49A	X	0	0	0	%100
68	M49A	Z	1.565	1.565	0	%100
69	MP5A	X	0	0	0	%100
70	MP5A	Z	7.338	7.338	0	%100
71	MP1A	X	0	0	0	%100
72	MP1A	Z	7.338	7.338	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	7.338	7.338	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	7.338	7.338	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	7.338	7.338	0	%100
79	M56	X	0	0	0	%100
80	M56	Z	.565	.565	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.994	-3.994	0	%100
2	M1	Z	6.918	6.918	0	%100
3	M3	X	-3.994	-3.994	0	%100
4	M3	Z	6.918	6.918	0	%100
5	M7	X	-3.827	-3.827	0	%100
6	M7	Z	6.629	6.629	0	%100
7	M10	X	-3.827	-3.827	0	%100
8	M10	Z	6.629	6.629	0	%100
9	M49	X	-.272	-.272	0	%100
10	M49	Z	.471	.471	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
11	M50	X	-0.272	-0.272	0 %100
12	M50	Z	0.471	0.471	0 %100
13	M47A	X	-0.043	-0.043	0 %100
14	M47A	Z	0.074	0.074	0 %100
15	M48A	X	-0.043	-0.043	0 %100
16	M48A	Z	0.074	0.074	0 %100
17	M37A	X	-1.493	-1.493	0 %100
18	M37A	Z	2.586	2.586	0 %100
19	M38A	X	-1.475	-1.475	0 %100
20	M38A	Z	2.554	2.554	0 %100
21	M39	X	-1.475	-1.475	0 %100
22	M39	Z	2.554	2.554	0 %100
23	M40A	X	-1.314	-1.314	0 %100
24	M40A	Z	2.276	2.276	0 %100
25	M41A	X	-1.314	-1.314	0 %100
26	M41A	Z	2.276	2.276	0 %100
27	O1	X	-2.767	-2.767	0 %100
28	O1	Z	4.793	4.793	0 %100
29	M43A	X	-1.493	-1.493	0 %100
30	M43A	Z	2.586	2.586	0 %100
31	M44A	X	-2.319	-2.319	0 %100
32	M44A	Z	4.017	4.017	0 %100
33	M45	X	-2.319	-2.319	0 %100
34	M45	Z	4.017	4.017	0 %100
35	M46	X	-1.475	-1.475	0 %100
36	M46	Z	2.554	2.554	0 %100
37	M47B	X	-1.475	-1.475	0 %100
38	M47B	Z	2.554	2.554	0 %100
39	M35	X	-3.923	-3.923	0 %100
40	M35	Z	6.795	6.795	0 %100
41	M36	X	-3.923	-3.923	0 %100
42	M36	Z	6.795	6.795	0 %100
43	M37B	X	-0.619	-0.619	0 %100
44	M37B	Z	1.073	1.073	0 %100
45	M38B	X	-0.619	-0.619	0 %100
46	M38B	Z	1.073	1.073	0 %100
47	M39A	X	-1.493	-1.493	0 %100
48	M39A	Z	2.586	2.586	0 %100
49	M40B	X	-1.475	-1.475	0 %100
50	M40B	Z	2.554	2.554	0 %100
51	M41B	X	-1.475	-1.475	0 %100
52	M41B	Z	2.554	2.554	0 %100
53	M42A	X	-2.8	-2.8	0 %100
54	M42A	Z	4.849	4.849	0 %100
55	M43B	X	-2.8	-2.8	0 %100
56	M43B	Z	4.849	4.849	0 %100
57	O2	X	-2.767	-2.767	0 %100
58	O2	Z	4.793	4.793	0 %100
59	M45A	X	-1.493	-1.493	0 %100
60	M45A	Z	2.586	2.586	0 %100
61	M46B	X	-2.319	-2.319	0 %100
62	M46B	Z	4.017	4.017	0 %100
63	M47C	X	-2.319	-2.319	0 %100
64	M47C	Z	4.017	4.017	0 %100
65	M48B	X	-1.475	-1.475	0 %100
66	M48B	Z	2.554	2.554	0 %100
67	M49A	X	-1.475	-1.475	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
68	M49A	Z	2.554	2.554	0	%100
69	MP5A	X	-3.806	-3.806	0	%100
70	MP5A	Z	6.592	6.592	0	%100
71	MP1A	X	-3.806	-3.806	0	%100
72	MP1A	Z	6.592	6.592	0	%100
73	MP3A	X	-3.806	-3.806	0	%100
74	MP3A	Z	6.592	6.592	0	%100
75	MP2A	X	-3.806	-3.806	0	%100
76	MP2A	Z	6.592	6.592	0	%100
77	MP4A	X	-3.794	-3.794	0	%100
78	MP4A	Z	6.572	6.572	0	%100
79	M56	X	-.282	-.282	0	%100
80	M56	Z	.489	.489	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.306	-2.306	0	%100
2	M1	Z	1.331	1.331	0	%100
3	M3	X	-2.306	-2.306	0	%100
4	M3	Z	1.331	1.331	0	%100
5	M7	X	-2.21	-2.21	0	%100
6	M7	Z	1.276	1.276	0	%100
7	M10	X	-2.21	-2.21	0	%100
8	M10	Z	1.276	1.276	0	%100
9	M49	X	-.507	-.507	0	%100
10	M49	Z	.293	.293	0	%100
11	M50	X	-.507	-.507	0	%100
12	M50	Z	.293	.293	0	%100
13	M47A	X	-.08	-.08	0	%100
14	M47A	Z	.046	.046	0	%100
15	M48A	X	-.08	-.08	0	%100
16	M48A	Z	.046	.046	0	%100
17	M37A	X	-4.961	-4.961	0	%100
18	M37A	Z	2.864	2.864	0	%100
19	M38A	X	-4.951	-4.951	0	%100
20	M38A	Z	2.858	2.858	0	%100
21	M39	X	-4.951	-4.951	0	%100
22	M39	Z	2.858	2.858	0	%100
23	M40A	X	-2.291	-2.291	0	%100
24	M40A	Z	1.323	1.323	0	%100
25	M41A	X	-2.291	-2.291	0	%100
26	M41A	Z	1.323	1.323	0	%100
27	O1	X	-5.047	-5.047	0	%100
28	O1	Z	2.914	2.914	0	%100
29	M43A	X	-4.961	-4.961	0	%100
30	M43A	Z	2.864	2.864	0	%100
31	M44A	X	-4.248	-4.248	0	%100
32	M44A	Z	2.453	2.453	0	%100
33	M45	X	-4.248	-4.248	0	%100
34	M45	Z	2.453	2.453	0	%100
35	M46	X	-4.951	-4.951	0	%100
36	M46	Z	2.858	2.858	0	%100
37	M47B	X	-4.951	-4.951	0	%100
38	M47B	Z	2.858	2.858	0	%100
39	M35	X	-6.83	-6.83	0	%100
40	M35	Z	3.944	3.944	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
41	M36	X	-6.83	-6.83	0 %100
42	M36	Z	3.944	3.944	0 %100
43	M37B	X	-1.078	-1.078	0 %100
44	M37B	Z	.623	.623	0 %100
45	M38B	X	-1.078	-1.078	0 %100
46	M38B	Z	.623	.623	0 %100
47	M39A	X	-4.961	-4.961	0 %100
48	M39A	Z	2.864	2.864	0 %100
49	M40B	X	-4.951	-4.951	0 %100
50	M40B	Z	2.858	2.858	0 %100
51	M41B	X	-4.951	-4.951	0 %100
52	M41B	Z	2.858	2.858	0 %100
53	M42A	X	-4.864	-4.864	0 %100
54	M42A	Z	2.808	2.808	0 %100
55	M43B	X	-4.864	-4.864	0 %100
56	M43B	Z	2.808	2.808	0 %100
57	O2	X	-5.047	-5.047	0 %100
58	O2	Z	2.914	2.914	0 %100
59	M45A	X	-4.961	-4.961	0 %100
60	M45A	Z	2.864	2.864	0 %100
61	M46B	X	-4.248	-4.248	0 %100
62	M46B	Z	2.453	2.453	0 %100
63	M47C	X	-4.248	-4.248	0 %100
64	M47C	Z	2.453	2.453	0 %100
65	M48B	X	-4.951	-4.951	0 %100
66	M48B	Z	2.858	2.858	0 %100
67	M49A	X	-4.951	-4.951	0 %100
68	M49A	Z	2.858	2.858	0 %100
69	MP5A	X	-7.065	-7.065	0 %100
70	MP5A	Z	4.079	4.079	0 %100
71	MP1A	X	-7.065	-7.065	0 %100
72	MP1A	Z	4.079	4.079	0 %100
73	MP3A	X	-7.065	-7.065	0 %100
74	MP3A	Z	4.079	4.079	0 %100
75	MP2A	X	-7.065	-7.065	0 %100
76	MP2A	Z	4.079	4.079	0 %100
77	MP4A	X	-7.006	-7.006	0 %100
78	MP4A	Z	4.045	4.045	0 %100
79	M56	X	-3.651	-3.651	0 %100
80	M56	Z	2.108	2.108	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M3	X	0	0	0 %100
4	M3	Z	0	0	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	0	0	0 %100
7	M10	X	0	0	0 %100
8	M10	Z	0	0	0 %100
9	M49	X	-4.257	-4.257	0 %100
10	M49	Z	0	0	0 %100
11	M50	X	-4.257	-4.257	0 %100
12	M50	Z	0	0	0 %100
13	M47A	X	-.672	-.672	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
14	M47A	Z	0	0	%100	
15	M48A	X	-672	-672	0	%100
16	M48A	Z	0	0	0	%100
17	M37A	X	-7.1	-7.1	0	%100
18	M37A	Z	0	0	0	%100
19	M38A	X	-7.1	-7.1	0	%100
20	M38A	Z	0	0	0	%100
21	M39	X	-7.1	-7.1	0	%100
22	M39	Z	0	0	0	%100
23	M40A	X	-4.139	-4.139	0	%100
24	M40A	Z	0	0	0	%100
25	M41A	X	-4.139	-4.139	0	%100
26	M41A	Z	0	0	0	%100
27	O1	X	-5.974	-5.974	0	%100
28	O1	Z	0	0	0	%100
29	M43A	X	-7.1	-7.1	0	%100
30	M43A	Z	0	0	0	%100
31	M44A	X	-5.038	-5.038	0	%100
32	M44A	Z	0	0	0	%100
33	M45	X	-5.038	-5.038	0	%100
34	M45	Z	0	0	0	%100
35	M46	X	-7.1	-7.1	0	%100
36	M46	Z	0	0	0	%100
37	M47B	X	-7.1	-7.1	0	%100
38	M47B	Z	0	0	0	%100
39	M35	X	-4.257	-4.257	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	-4.257	-4.257	0	%100
42	M36	Z	0	0	0	%100
43	M37B	X	-672	-672	0	%100
44	M37B	Z	0	0	0	%100
45	M38B	X	-672	-672	0	%100
46	M38B	Z	0	0	0	%100
47	M39A	X	-7.1	-7.1	0	%100
48	M39A	Z	0	0	0	%100
49	M40B	X	-7.1	-7.1	0	%100
50	M40B	Z	0	0	0	%100
51	M41B	X	-7.1	-7.1	0	%100
52	M41B	Z	0	0	0	%100
53	M42A	X	-4.139	-4.139	0	%100
54	M42A	Z	0	0	0	%100
55	M43B	X	-4.139	-4.139	0	%100
56	M43B	Z	0	0	0	%100
57	O2	X	-5.974	-5.974	0	%100
58	O2	Z	0	0	0	%100
59	M45A	X	-7.1	-7.1	0	%100
60	M45A	Z	0	0	0	%100
61	M46B	X	-5.038	-5.038	0	%100
62	M46B	Z	0	0	0	%100
63	M47C	X	-5.038	-5.038	0	%100
64	M47C	Z	0	0	0	%100
65	M48B	X	-7.1	-7.1	0	%100
66	M48B	Z	0	0	0	%100
67	M49A	X	-7.1	-7.1	0	%100
68	M49A	Z	0	0	0	%100
69	MP5A	X	-8.431	-8.431	0	%100
70	MP5A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
71	MP1A	X	-8.431	-8.431	0	%100
72	MP1A	Z	0	0	0	%100
73	MP3A	X	-8.431	-8.431	0	%100
74	MP3A	Z	0	0	0	%100
75	MP2A	X	-8.431	-8.431	0	%100
76	MP2A	Z	0	0	0	%100
77	MP4A	X	-8.341	-8.341	0	%100
78	MP4A	Z	0	0	0	%100
79	M56	X	-7.867	-7.867	0	%100
80	M56	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.306	-2.306	0	%100
2	M1	Z	-1.331	-1.331	0	%100
3	M3	X	-2.306	-2.306	0	%100
4	M3	Z	-1.331	-1.331	0	%100
5	M7	X	-2.21	-2.21	0	%100
6	M7	Z	-1.276	-1.276	0	%100
7	M10	X	-2.21	-2.21	0	%100
8	M10	Z	-1.276	-1.276	0	%100
9	M49	X	-6.83	-6.83	0	%100
10	M49	Z	-3.944	-3.944	0	%100
11	M50	X	-6.83	-6.83	0	%100
12	M50	Z	-3.944	-3.944	0	%100
13	M47A	X	-1.078	-1.078	0	%100
14	M47A	Z	-.623	-.623	0	%100
15	M48A	X	-1.078	-1.078	0	%100
16	M48A	Z	-.623	-.623	0	%100
17	M37A	X	-4.961	-4.961	0	%100
18	M37A	Z	-2.864	-2.864	0	%100
19	M38A	X	-4.951	-4.951	0	%100
20	M38A	Z	-2.858	-2.858	0	%100
21	M39	X	-4.951	-4.951	0	%100
22	M39	Z	-2.858	-2.858	0	%100
23	M40A	X	-4.864	-4.864	0	%100
24	M40A	Z	-2.808	-2.808	0	%100
25	M41A	X	-4.864	-4.864	0	%100
26	M41A	Z	-2.808	-2.808	0	%100
27	O1	X	-5.047	-5.047	0	%100
28	O1	Z	-2.914	-2.914	0	%100
29	M43A	X	-4.961	-4.961	0	%100
30	M43A	Z	-2.864	-2.864	0	%100
31	M44A	X	-4.248	-4.248	0	%100
32	M44A	Z	-2.453	-2.453	0	%100
33	M45	X	-4.248	-4.248	0	%100
34	M45	Z	-2.453	-2.453	0	%100
35	M46	X	-4.951	-4.951	0	%100
36	M46	Z	-2.858	-2.858	0	%100
37	M47B	X	-4.951	-4.951	0	%100
38	M47B	Z	-2.858	-2.858	0	%100
39	M35	X	-.507	-.507	0	%100
40	M35	Z	-.293	-.293	0	%100
41	M36	X	-.507	-.507	0	%100
42	M36	Z	-.293	-.293	0	%100
43	M37B	X	-.08	-.08	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
44	M37B	Z	-0.046	-0.046	0 %100
45	M38B	X	-0.08	-0.08	0 %100
46	M38B	Z	-0.046	-0.046	0 %100
47	M39A	X	-4.961	-4.961	0 %100
48	M39A	Z	-2.864	-2.864	0 %100
49	M40B	X	-4.951	-4.951	0 %100
50	M40B	Z	-2.858	-2.858	0 %100
51	M41B	X	-4.951	-4.951	0 %100
52	M41B	Z	-2.858	-2.858	0 %100
53	M42A	X	-2.291	-2.291	0 %100
54	M42A	Z	-1.323	-1.323	0 %100
55	M43B	X	-2.291	-2.291	0 %100
56	M43B	Z	-1.323	-1.323	0 %100
57	O2	X	-5.047	-5.047	0 %100
58	O2	Z	-2.914	-2.914	0 %100
59	M45A	X	-4.961	-4.961	0 %100
60	M45A	Z	-2.864	-2.864	0 %100
61	M46B	X	-4.248	-4.248	0 %100
62	M46B	Z	-2.453	-2.453	0 %100
63	M47C	X	-4.248	-4.248	0 %100
64	M47C	Z	-2.453	-2.453	0 %100
65	M48B	X	-4.951	-4.951	0 %100
66	M48B	Z	-2.858	-2.858	0 %100
67	M49A	X	-4.951	-4.951	0 %100
68	M49A	Z	-2.858	-2.858	0 %100
69	MP5A	X	-7.065	-7.065	0 %100
70	MP5A	Z	-4.079	-4.079	0 %100
71	MP1A	X	-7.065	-7.065	0 %100
72	MP1A	Z	-4.079	-4.079	0 %100
73	MP3A	X	-7.065	-7.065	0 %100
74	MP3A	Z	-4.079	-4.079	0 %100
75	MP2A	X	-7.065	-7.065	0 %100
76	MP2A	Z	-4.079	-4.079	0 %100
77	MP4A	X	-7.006	-7.006	0 %100
78	MP4A	Z	-4.045	-4.045	0 %100
79	M56	X	-6.813	-6.813	0 %100
80	M56	Z	-3.933	-3.933	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.994	-3.994	0 %100
2	M1	Z	-6.918	-6.918	0 %100
3	M3	X	-3.994	-3.994	0 %100
4	M3	Z	-6.918	-6.918	0 %100
5	M7	X	-3.827	-3.827	0 %100
6	M7	Z	-6.629	-6.629	0 %100
7	M10	X	-3.827	-3.827	0 %100
8	M10	Z	-6.629	-6.629	0 %100
9	M49	X	-3.923	-3.923	0 %100
10	M49	Z	-6.795	-6.795	0 %100
11	M50	X	-3.923	-3.923	0 %100
12	M50	Z	-6.795	-6.795	0 %100
13	M47A	X	-.619	-.619	0 %100
14	M47A	Z	-1.073	-1.073	0 %100
15	M48A	X	-.619	-.619	0 %100
16	M48A	Z	-1.073	-1.073	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
17	M37A	X	-1.493	-1.493	0 %100
18	M37A	Z	-2.586	-2.586	0 %100
19	M38A	X	-1.475	-1.475	0 %100
20	M38A	Z	-2.554	-2.554	0 %100
21	M39	X	-1.475	-1.475	0 %100
22	M39	Z	-2.554	-2.554	0 %100
23	M40A	X	-2.8	-2.8	0 %100
24	M40A	Z	-4.849	-4.849	0 %100
25	M41A	X	-2.8	-2.8	0 %100
26	M41A	Z	-4.849	-4.849	0 %100
27	O1	X	-2.767	-2.767	0 %100
28	O1	Z	-4.793	-4.793	0 %100
29	M43A	X	-1.493	-1.493	0 %100
30	M43A	Z	-2.586	-2.586	0 %100
31	M44A	X	-2.319	-2.319	0 %100
32	M44A	Z	-4.017	-4.017	0 %100
33	M45	X	-2.319	-2.319	0 %100
34	M45	Z	-4.017	-4.017	0 %100
35	M46	X	-1.475	-1.475	0 %100
36	M46	Z	-2.554	-2.554	0 %100
37	M47B	X	-1.475	-1.475	0 %100
38	M47B	Z	-2.554	-2.554	0 %100
39	M35	X	-.272	-.272	0 %100
40	M35	Z	-.471	-.471	0 %100
41	M36	X	-.272	-.272	0 %100
42	M36	Z	-.471	-.471	0 %100
43	M37B	X	-.043	-.043	0 %100
44	M37B	Z	-.074	-.074	0 %100
45	M38B	X	-.043	-.043	0 %100
46	M38B	Z	-.074	-.074	0 %100
47	M39A	X	-1.493	-1.493	0 %100
48	M39A	Z	-2.586	-2.586	0 %100
49	M40B	X	-1.475	-1.475	0 %100
50	M40B	Z	-2.554	-2.554	0 %100
51	M41B	X	-1.475	-1.475	0 %100
52	M41B	Z	-2.554	-2.554	0 %100
53	M42A	X	-1.314	-1.314	0 %100
54	M42A	Z	-2.276	-2.276	0 %100
55	M43B	X	-1.314	-1.314	0 %100
56	M43B	Z	-2.276	-2.276	0 %100
57	O2	X	-2.767	-2.767	0 %100
58	O2	Z	-4.793	-4.793	0 %100
59	M45A	X	-1.493	-1.493	0 %100
60	M45A	Z	-2.586	-2.586	0 %100
61	M46B	X	-2.319	-2.319	0 %100
62	M46B	Z	-4.017	-4.017	0 %100
63	M47C	X	-2.319	-2.319	0 %100
64	M47C	Z	-4.017	-4.017	0 %100
65	M48B	X	-1.475	-1.475	0 %100
66	M48B	Z	-2.554	-2.554	0 %100
67	M49A	X	-1.475	-1.475	0 %100
68	M49A	Z	-2.554	-2.554	0 %100
69	MP5A	X	-3.806	-3.806	0 %100
70	MP5A	Z	-6.592	-6.592	0 %100
71	MP1A	X	-3.806	-3.806	0 %100
72	MP1A	Z	-6.592	-6.592	0 %100
73	MP3A	X	-3.806	-3.806	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
74	MP3A	Z	-6.592	-6.592	0 %100
75	MP2A	X	-3.806	-3.806	0 %100
76	MP2A	Z	-6.592	-6.592	0 %100
77	MP4A	X	-3.794	-3.794	0 %100
78	MP4A	Z	-6.572	-6.572	0 %100
79	M56	X	-2.108	-2.108	0 %100
80	M56	Z	-3.651	-3.651	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	-2.679	-2.679	0 %100
3	M3	X	0	0	0 %100
4	M3	Z	-2.679	-2.679	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	-3.143	-3.143	0 %100
7	M10	X	0	0	0 %100
8	M10	Z	-3.143	-3.143	0 %100
9	M49	X	0	0	0 %100
10	M49	Z	-1.401	-1.401	0 %100
11	M50	X	0	0	0 %100
12	M50	Z	-1.401	-1.401	0 %100
13	M47A	X	0	0	0 %100
14	M47A	Z	-.504	-.504	0 %100
15	M48A	X	0	0	0 %100
16	M48A	Z	-.504	-.504	0 %100
17	M37A	X	0	0	0 %100
18	M37A	Z	-1.068	-1.068	0 %100
19	M38A	X	0	0	0 %100
20	M38A	Z	-1.059	-1.059	0 %100
21	M39	X	0	0	0 %100
22	M39	Z	-1.059	-1.059	0 %100
23	M40A	X	0	0	0 %100
24	M40A	Z	-1.611	-1.611	0 %100
25	M41A	X	0	0	0 %100
26	M41A	Z	-1.611	-1.611	0 %100
27	O1	X	0	0	0 %100
28	O1	Z	-1.927	-1.927	0 %100
29	M43A	X	0	0	0 %100
30	M43A	Z	-1.068	-1.068	0 %100
31	M44A	X	0	0	0 %100
32	M44A	Z	-1.846	-1.846	0 %100
33	M45	X	0	0	0 %100
34	M45	Z	-1.846	-1.846	0 %100
35	M46	X	0	0	0 %100
36	M46	Z	-1.059	-1.059	0 %100
37	M47B	X	0	0	0 %100
38	M47B	Z	-1.059	-1.059	0 %100
39	M35	X	0	0	0 %100
40	M35	Z	-1.401	-1.401	0 %100
41	M36	X	0	0	0 %100
42	M36	Z	-1.401	-1.401	0 %100
43	M37B	X	0	0	0 %100
44	M37B	Z	-.504	-.504	0 %100
45	M38B	X	0	0	0 %100
46	M38B	Z	-.504	-.504	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
47	M39A	X	0	0	0	%100
48	M39A	Z	-1.068	-1.068	0	%100
49	M40B	X	0	0	0	%100
50	M40B	Z	-1.059	-1.059	0	%100
51	M41B	X	0	0	0	%100
52	M41B	Z	-1.059	-1.059	0	%100
53	M42A	X	0	0	0	%100
54	M42A	Z	-1.611	-1.611	0	%100
55	M43B	X	0	0	0	%100
56	M43B	Z	-1.611	-1.611	0	%100
57	O2	X	0	0	0	%100
58	O2	Z	-1.927	-1.927	0	%100
59	M45A	X	0	0	0	%100
60	M45A	Z	-1.068	-1.068	0	%100
61	M46B	X	0	0	0	%100
62	M46B	Z	-1.846	-1.846	0	%100
63	M47C	X	0	0	0	%100
64	M47C	Z	-1.846	-1.846	0	%100
65	M48B	X	0	0	0	%100
66	M48B	Z	-1.059	-1.059	0	%100
67	M49A	X	0	0	0	%100
68	M49A	Z	-1.059	-1.059	0	%100
69	MP5A	X	0	0	0	%100
70	MP5A	Z	-2.637	-2.637	0	%100
71	MP1A	X	0	0	0	%100
72	MP1A	Z	-2.637	-2.637	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-2.637	-2.637	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-2.637	-2.637	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	-2.637	-2.637	0	%100
79	M56	X	0	0	0	%100
80	M56	Z	-.19	-.19	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.005	1.005	0	%100
2	M1	Z	-1.74	-1.74	0	%100
3	M3	X	1.005	1.005	0	%100
4	M3	Z	-1.74	-1.74	0	%100
5	M7	X	1.179	1.179	0	%100
6	M7	Z	-2.042	-2.042	0	%100
7	M10	X	1.179	1.179	0	%100
8	M10	Z	-2.042	-2.042	0	%100
9	M49	X	.091	.091	0	%100
10	M49	Z	-.158	-.158	0	%100
11	M50	X	.091	.091	0	%100
12	M50	Z	-.158	-.158	0	%100
13	M47A	X	.033	.033	0	%100
14	M47A	Z	-.057	-.057	0	%100
15	M48A	X	.033	.033	0	%100
16	M48A	Z	-.057	-.057	0	%100
17	M37A	X	.655	.655	0	%100
18	M37A	Z	-1.134	-1.134	0	%100
19	M38A	X	.652	.652	0	%100



Company :
 Designer :
 Job Number :
 Model Name :

May 27, 2021
 12:23 PM
 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
20	M38A	Z	-1.129	-1.129	0 %100
21	M39	X	.652	.652	0 %100
22	M39	Z	-1.129	-1.129	0 %100
23	M40A	X	.544	.544	0 %100
24	M40A	Z	-.943	-.943	0 %100
25	M41A	X	.544	.544	0 %100
26	M41A	Z	-.943	-.943	0 %100
27	O1	X	.976	.976	0 %100
28	O1	Z	-1.691	-1.691	0 %100
29	M43A	X	.655	.655	0 %100
30	M43A	Z	-1.134	-1.134	0 %100
31	M44A	X	.935	.935	0 %100
32	M44A	Z	-1.619	-1.619	0 %100
33	M45	X	.935	.935	0 %100
34	M45	Z	-1.619	-1.619	0 %100
35	M46	X	.652	.652	0 %100
36	M46	Z	-1.129	-1.129	0 %100
37	M47B	X	.652	.652	0 %100
38	M47B	Z	-1.129	-1.129	0 %100
39	M35	X	1.317	1.317	0 %100
40	M35	Z	-2.281	-2.281	0 %100
41	M36	X	1.317	1.317	0 %100
42	M36	Z	-2.281	-2.281	0 %100
43	M37B	X	.473	.473	0 %100
44	M37B	Z	-.82	-.82	0 %100
45	M38B	X	.473	.473	0 %100
46	M38B	Z	-.82	-.82	0 %100
47	M39A	X	.655	.655	0 %100
48	M39A	Z	-1.134	-1.134	0 %100
49	M40B	X	.652	.652	0 %100
50	M40B	Z	-1.129	-1.129	0 %100
51	M41B	X	.652	.652	0 %100
52	M41B	Z	-1.129	-1.129	0 %100
53	M42A	X	1.069	1.069	0 %100
54	M42A	Z	-1.852	-1.852	0 %100
55	M43B	X	1.069	1.069	0 %100
56	M43B	Z	-1.852	-1.852	0 %100
57	O2	X	.976	.976	0 %100
58	O2	Z	-1.691	-1.691	0 %100
59	M45A	X	.655	.655	0 %100
60	M45A	Z	-1.134	-1.134	0 %100
61	M46B	X	.935	.935	0 %100
62	M46B	Z	-1.619	-1.619	0 %100
63	M47C	X	.935	.935	0 %100
64	M47C	Z	-1.619	-1.619	0 %100
65	M48B	X	.652	.652	0 %100
66	M48B	Z	-1.129	-1.129	0 %100
67	M49A	X	.652	.652	0 %100
68	M49A	Z	-1.129	-1.129	0 %100
69	MP5A	X	1.343	1.343	0 %100
70	MP5A	Z	-2.325	-2.325	0 %100
71	MP1A	X	1.343	1.343	0 %100
72	MP1A	Z	-2.325	-2.325	0 %100
73	MP3A	X	1.343	1.343	0 %100
74	MP3A	Z	-2.325	-2.325	0 %100
75	MP2A	X	1.343	1.343	0 %100
76	MP2A	Z	-2.325	-2.325	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%,]	End Location[ft.%,]
77	MP4A	X	1.341	1.341	0	%100
78	MP4A	Z	-2.322	-2.322	0	%100
79	M56	X	.095	.095	0	%100
80	M56	Z	-.164	-.164	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.58	.58	0	%100
2	M1	Z	-.335	-.335	0	%100
3	M3	X	.58	.58	0	%100
4	M3	Z	-.335	-.335	0	%100
5	M7	X	.681	.681	0	%100
6	M7	Z	-.393	-.393	0	%100
7	M10	X	.681	.681	0	%100
8	M10	Z	-.393	-.393	0	%100
9	M49	X	.17	.17	0	%100
10	M49	Z	-.098	-.098	0	%100
11	M50	X	.17	.17	0	%100
12	M50	Z	-.098	-.098	0	%100
13	M47A	X	.061	.061	0	%100
14	M47A	Z	-.035	-.035	0	%100
15	M48A	X	.061	.061	0	%100
16	M48A	Z	-.035	-.035	0	%100
17	M37A	X	1.554	1.554	0	%100
18	M37A	Z	-.897	-.897	0	%100
19	M38A	X	1.552	1.552	0	%100
20	M38A	Z	-.896	-.896	0	%100
21	M39	X	1.552	1.552	0	%100
22	M39	Z	-.896	-.896	0	%100
23	M40A	X	.948	.948	0	%100
24	M40A	Z	-.547	-.547	0	%100
25	M41A	X	.948	.948	0	%100
26	M41A	Z	-.547	-.547	0	%100
27	O1	X	1.736	1.736	0	%100
28	O1	Z	-1.002	-1.002	0	%100
29	M43A	X	1.554	1.554	0	%100
30	M43A	Z	-.897	-.897	0	%100
31	M44A	X	1.66	1.66	0	%100
32	M44A	Z	-.959	-.959	0	%100
33	M45	X	1.66	1.66	0	%100
34	M45	Z	-.959	-.959	0	%100
35	M46	X	1.552	1.552	0	%100
36	M46	Z	-.896	-.896	0	%100
37	M47B	X	1.552	1.552	0	%100
38	M47B	Z	-.896	-.896	0	%100
39	M35	X	2.293	2.293	0	%100
40	M35	Z	-1.324	-1.324	0	%100
41	M36	X	2.293	2.293	0	%100
42	M36	Z	-1.324	-1.324	0	%100
43	M37B	X	.824	.824	0	%100
44	M37B	Z	-.476	-.476	0	%100
45	M38B	X	.824	.824	0	%100
46	M38B	Z	-.476	-.476	0	%100
47	M39A	X	1.554	1.554	0	%100
48	M39A	Z	-.897	-.897	0	%100
49	M40B	X	1.552	1.552	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
50	M40B	Z	- .896	0	%100
51	M41B	X	1.552	0	%100
52	M41B	Z	- .896	0	%100
53	M42A	X	1.857	0	%100
54	M42A	Z	-1.072	0	%100
55	M43B	X	1.857	0	%100
56	M43B	Z	-1.072	0	%100
57	O2	X	1.736	0	%100
58	O2	Z	-1.002	0	%100
59	M45A	X	1.554	0	%100
60	M45A	Z	- .897	0	%100
61	M46B	X	1.66	0	%100
62	M46B	Z	- .959	0	%100
63	M47C	X	1.66	0	%100
64	M47C	Z	- .959	0	%100
65	M48B	X	1.552	0	%100
66	M48B	Z	- .896	0	%100
67	M49A	X	1.552	0	%100
68	M49A	Z	- .896	0	%100
69	MP5A	X	2.409	0	%100
70	MP5A	Z	-1.391	0	%100
71	MP1A	X	2.409	0	%100
72	MP1A	Z	-1.391	0	%100
73	MP3A	X	2.409	0	%100
74	MP3A	Z	-1.391	0	%100
75	MP2A	X	2.409	0	%100
76	MP2A	Z	-1.391	0	%100
77	MP4A	X	2.399	0	%100
78	MP4A	Z	-1.385	0	%100
79	M56	X	1.225	0	%100
80	M56	Z	- .707	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	%100
2	M1	Z	0	0	%100
3	M3	X	0	0	%100
4	M3	Z	0	0	%100
5	M7	X	0	0	%100
6	M7	Z	0	0	%100
7	M10	X	0	0	%100
8	M10	Z	0	0	%100
9	M49	X	1.429	0	%100
10	M49	Z	0	0	%100
11	M50	X	1.429	0	%100
12	M50	Z	0	0	%100
13	M47A	X	.514	0	%100
14	M47A	Z	0	0	%100
15	M48A	X	.514	0	%100
16	M48A	Z	0	0	%100
17	M37A	X	2.036	0	%100
18	M37A	Z	0	0	%100
19	M38A	X	2.036	0	%100
20	M38A	Z	0	0	%100
21	M39	X	2.036	0	%100
22	M39	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
23	M40A	X	1.623	1.623	0 %100
24	M40A	Z	0	0	0 %100
25	M41A	X	1.623	1.623	0 %100
26	M41A	Z	0	0	0 %100
27	O1	X	2.03	2.03	0 %100
28	O1	Z	0	0	0 %100
29	M43A	X	2.036	2.036	0 %100
30	M43A	Z	0	0	0 %100
31	M44A	X	1.941	1.941	0 %100
32	M44A	Z	0	0	0 %100
33	M45	X	1.941	1.941	0 %100
34	M45	Z	0	0	0 %100
35	M46	X	2.036	2.036	0 %100
36	M46	Z	0	0	0 %100
37	M47B	X	2.036	2.036	0 %100
38	M47B	Z	0	0	0 %100
39	M35	X	1.429	1.429	0 %100
40	M35	Z	0	0	0 %100
41	M36	X	1.429	1.429	0 %100
42	M36	Z	0	0	0 %100
43	M37B	X	.514	.514	0 %100
44	M37B	Z	0	0	0 %100
45	M38B	X	.514	.514	0 %100
46	M38B	Z	0	0	0 %100
47	M39A	X	2.036	2.036	0 %100
48	M39A	Z	0	0	0 %100
49	M40B	X	2.036	2.036	0 %100
50	M40B	Z	0	0	0 %100
51	M41B	X	2.036	2.036	0 %100
52	M41B	Z	0	0	0 %100
53	M42A	X	1.623	1.623	0 %100
54	M42A	Z	0	0	0 %100
55	M43B	X	1.623	1.623	0 %100
56	M43B	Z	0	0	0 %100
57	O2	X	2.03	2.03	0 %100
58	O2	Z	0	0	0 %100
59	M45A	X	2.036	2.036	0 %100
60	M45A	Z	0	0	0 %100
61	M46B	X	1.941	1.941	0 %100
62	M46B	Z	0	0	0 %100
63	M47C	X	1.941	1.941	0 %100
64	M47C	Z	0	0	0 %100
65	M48B	X	2.036	2.036	0 %100
66	M48B	Z	0	0	0 %100
67	M49A	X	2.036	2.036	0 %100
68	M49A	Z	0	0	0 %100
69	MP5A	X	2.83	2.83	0 %100
70	MP5A	Z	0	0	0 %100
71	MP1A	X	2.83	2.83	0 %100
72	MP1A	Z	0	0	0 %100
73	MP3A	X	2.83	2.83	0 %100
74	MP3A	Z	0	0	0 %100
75	MP2A	X	2.83	2.83	0 %100
76	MP2A	Z	0	0	0 %100
77	MP4A	X	2.814	2.814	0 %100
78	MP4A	Z	0	0	0 %100
79	M56	X	2.64	2.64	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

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 Checked By: _____

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
80	M56	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]	
1	M1	X	.58	.58	0	%100
2	M1	Z	.335	.335	0	%100
3	M3	X	.58	.58	0	%100
4	M3	Z	.335	.335	0	%100
5	M7	X	.681	.681	0	%100
6	M7	Z	.393	.393	0	%100
7	M10	X	.681	.681	0	%100
8	M10	Z	.393	.393	0	%100
9	M49	X	2.293	2.293	0	%100
10	M49	Z	1.324	1.324	0	%100
11	M50	X	2.293	2.293	0	%100
12	M50	Z	1.324	1.324	0	%100
13	M47A	X	.824	.824	0	%100
14	M47A	Z	.476	.476	0	%100
15	M48A	X	.824	.824	0	%100
16	M48A	Z	.476	.476	0	%100
17	M37A	X	1.554	1.554	0	%100
18	M37A	Z	.897	.897	0	%100
19	M38A	X	1.552	1.552	0	%100
20	M38A	Z	.896	.896	0	%100
21	M39	X	1.552	1.552	0	%100
22	M39	Z	.896	.896	0	%100
23	M40A	X	1.857	1.857	0	%100
24	M40A	Z	1.072	1.072	0	%100
25	M41A	X	1.857	1.857	0	%100
26	M41A	Z	1.072	1.072	0	%100
27	O1	X	1.736	1.736	0	%100
28	O1	Z	1.002	1.002	0	%100
29	M43A	X	1.554	1.554	0	%100
30	M43A	Z	.897	.897	0	%100
31	M44A	X	1.66	1.66	0	%100
32	M44A	Z	.959	.959	0	%100
33	M45	X	1.66	1.66	0	%100
34	M45	Z	.959	.959	0	%100
35	M46	X	1.552	1.552	0	%100
36	M46	Z	.896	.896	0	%100
37	M47B	X	1.552	1.552	0	%100
38	M47B	Z	.896	.896	0	%100
39	M35	X	.17	.17	0	%100
40	M35	Z	.098	.098	0	%100
41	M36	X	.17	.17	0	%100
42	M36	Z	.098	.098	0	%100
43	M37B	X	.061	.061	0	%100
44	M37B	Z	.035	.035	0	%100
45	M38B	X	.061	.061	0	%100
46	M38B	Z	.035	.035	0	%100
47	M39A	X	1.554	1.554	0	%100
48	M39A	Z	.897	.897	0	%100
49	M40B	X	1.552	1.552	0	%100
50	M40B	Z	.896	.896	0	%100
51	M41B	X	1.552	1.552	0	%100
52	M41B	Z	.896	.896	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
53	M42A	X	.948	.948	0 %100
54	M42A	Z	.547	.547	0 %100
55	M43B	X	.948	.948	0 %100
56	M43B	Z	.547	.547	0 %100
57	O2	X	1.736	1.736	0 %100
58	O2	Z	1.002	1.002	0 %100
59	M45A	X	1.554	1.554	0 %100
60	M45A	Z	.897	.897	0 %100
61	M46B	X	1.66	1.66	0 %100
62	M46B	Z	.959	.959	0 %100
63	M47C	X	1.66	1.66	0 %100
64	M47C	Z	.959	.959	0 %100
65	M48B	X	1.552	1.552	0 %100
66	M48B	Z	.896	.896	0 %100
67	M49A	X	1.552	1.552	0 %100
68	M49A	Z	.896	.896	0 %100
69	MP5A	X	2.409	2.409	0 %100
70	MP5A	Z	1.391	1.391	0 %100
71	MP1A	X	2.409	2.409	0 %100
72	MP1A	Z	1.391	1.391	0 %100
73	MP3A	X	2.409	2.409	0 %100
74	MP3A	Z	1.391	1.391	0 %100
75	MP2A	X	2.409	2.409	0 %100
76	MP2A	Z	1.391	1.391	0 %100
77	MP4A	X	2.399	2.399	0 %100
78	MP4A	Z	1.385	1.385	0 %100
79	M56	X	2.287	2.287	0 %100
80	M56	Z	1.32	1.32	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.005	1.005	0 %100
2	M1	Z	1.74	1.74	0 %100
3	M3	X	1.005	1.005	0 %100
4	M3	Z	1.74	1.74	0 %100
5	M7	X	1.179	1.179	0 %100
6	M7	Z	2.042	2.042	0 %100
7	M10	X	1.179	1.179	0 %100
8	M10	Z	2.042	2.042	0 %100
9	M49	X	1.317	1.317	0 %100
10	M49	Z	2.281	2.281	0 %100
11	M50	X	1.317	1.317	0 %100
12	M50	Z	2.281	2.281	0 %100
13	M47A	X	.473	.473	0 %100
14	M47A	Z	.82	.82	0 %100
15	M48A	X	.473	.473	0 %100
16	M48A	Z	.82	.82	0 %100
17	M37A	X	.655	.655	0 %100
18	M37A	Z	1.134	1.134	0 %100
19	M38A	X	.652	.652	0 %100
20	M38A	Z	1.129	1.129	0 %100
21	M39	X	.652	.652	0 %100
22	M39	Z	1.129	1.129	0 %100
23	M40A	X	1.069	1.069	0 %100
24	M40A	Z	1.852	1.852	0 %100
25	M41A	X	1.069	1.069	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
26	M41A	Z	1.852	1.852	0	%100
27	O1	X	.976	.976	0	%100
28	O1	Z	1.691	1.691	0	%100
29	M43A	X	.655	.655	0	%100
30	M43A	Z	1.134	1.134	0	%100
31	M44A	X	.935	.935	0	%100
32	M44A	Z	1.619	1.619	0	%100
33	M45	X	.935	.935	0	%100
34	M45	Z	1.619	1.619	0	%100
35	M46	X	.652	.652	0	%100
36	M46	Z	1.129	1.129	0	%100
37	M47B	X	.652	.652	0	%100
38	M47B	Z	1.129	1.129	0	%100
39	M35	X	.091	.091	0	%100
40	M35	Z	.158	.158	0	%100
41	M36	X	.091	.091	0	%100
42	M36	Z	.158	.158	0	%100
43	M37B	X	.033	.033	0	%100
44	M37B	Z	.057	.057	0	%100
45	M38B	X	.033	.033	0	%100
46	M38B	Z	.057	.057	0	%100
47	M39A	X	.655	.655	0	%100
48	M39A	Z	1.134	1.134	0	%100
49	M40B	X	.652	.652	0	%100
50	M40B	Z	1.129	1.129	0	%100
51	M41B	X	.652	.652	0	%100
52	M41B	Z	1.129	1.129	0	%100
53	M42A	X	.544	.544	0	%100
54	M42A	Z	.943	.943	0	%100
55	M43B	X	.544	.544	0	%100
56	M43B	Z	.943	.943	0	%100
57	O2	X	.976	.976	0	%100
58	O2	Z	1.691	1.691	0	%100
59	M45A	X	.655	.655	0	%100
60	M45A	Z	1.134	1.134	0	%100
61	M46B	X	.935	.935	0	%100
62	M46B	Z	1.619	1.619	0	%100
63	M47C	X	.935	.935	0	%100
64	M47C	Z	1.619	1.619	0	%100
65	M48B	X	.652	.652	0	%100
66	M48B	Z	1.129	1.129	0	%100
67	M49A	X	.652	.652	0	%100
68	M49A	Z	1.129	1.129	0	%100
69	MP5A	X	1.343	1.343	0	%100
70	MP5A	Z	2.325	2.325	0	%100
71	MP1A	X	1.343	1.343	0	%100
72	MP1A	Z	2.325	2.325	0	%100
73	MP3A	X	1.343	1.343	0	%100
74	MP3A	Z	2.325	2.325	0	%100
75	MP2A	X	1.343	1.343	0	%100
76	MP2A	Z	2.325	2.325	0	%100
77	MP4A	X	1.341	1.341	0	%100
78	MP4A	Z	2.322	2.322	0	%100
79	M56	X	.707	.707	0	%100
80	M56	Z	1.225	1.225	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,kSF]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	%100
2	M1	Z	2.679	2.679	%100
3	M3	X	0	0	%100
4	M3	Z	2.679	2.679	%100
5	M7	X	0	0	%100
6	M7	Z	3.143	3.143	%100
7	M10	X	0	0	%100
8	M10	Z	3.143	3.143	%100
9	M49	X	0	0	%100
10	M49	Z	1.401	1.401	%100
11	M50	X	0	0	%100
12	M50	Z	1.401	1.401	%100
13	M47A	X	0	0	%100
14	M47A	Z	.504	.504	%100
15	M48A	X	0	0	%100
16	M48A	Z	.504	.504	%100
17	M37A	X	0	0	%100
18	M37A	Z	1.068	1.068	%100
19	M38A	X	0	0	%100
20	M38A	Z	1.059	1.059	%100
21	M39	X	0	0	%100
22	M39	Z	1.059	1.059	%100
23	M40A	X	0	0	%100
24	M40A	Z	1.611	1.611	%100
25	M41A	X	0	0	%100
26	M41A	Z	1.611	1.611	%100
27	O1	X	0	0	%100
28	O1	Z	1.927	1.927	%100
29	M43A	X	0	0	%100
30	M43A	Z	1.068	1.068	%100
31	M44A	X	0	0	%100
32	M44A	Z	1.846	1.846	%100
33	M45	X	0	0	%100
34	M45	Z	1.846	1.846	%100
35	M46	X	0	0	%100
36	M46	Z	1.059	1.059	%100
37	M47B	X	0	0	%100
38	M47B	Z	1.059	1.059	%100
39	M35	X	0	0	%100
40	M35	Z	1.401	1.401	%100
41	M36	X	0	0	%100
42	M36	Z	1.401	1.401	%100
43	M37B	X	0	0	%100
44	M37B	Z	.504	.504	%100
45	M38B	X	0	0	%100
46	M38B	Z	.504	.504	%100
47	M39A	X	0	0	%100
48	M39A	Z	1.068	1.068	%100
49	M40B	X	0	0	%100
50	M40B	Z	1.059	1.059	%100
51	M41B	X	0	0	%100
52	M41B	Z	1.059	1.059	%100
53	M42A	X	0	0	%100
54	M42A	Z	1.611	1.611	%100
55	M43B	X	0	0	%100
56	M43B	Z	1.611	1.611	%100
57	O2	X	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
58	O2	Z	1.927	1.927	0	%100
59	M45A	X	0	0	0	%100
60	M45A	Z	1.068	1.068	0	%100
61	M46B	X	0	0	0	%100
62	M46B	Z	1.846	1.846	0	%100
63	M47C	X	0	0	0	%100
64	M47C	Z	1.846	1.846	0	%100
65	M48B	X	0	0	0	%100
66	M48B	Z	1.059	1.059	0	%100
67	M49A	X	0	0	0	%100
68	M49A	Z	1.059	1.059	0	%100
69	MP5A	X	0	0	0	%100
70	MP5A	Z	2.637	2.637	0	%100
71	MP1A	X	0	0	0	%100
72	MP1A	Z	2.637	2.637	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	2.637	2.637	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	2.637	2.637	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	2.637	2.637	0	%100
79	M56	X	0	0	0	%100
80	M56	Z	.19	.19	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.005	-1.005	0	%100
2	M1	Z	1.74	1.74	0	%100
3	M3	X	-1.005	-1.005	0	%100
4	M3	Z	1.74	1.74	0	%100
5	M7	X	-1.179	-1.179	0	%100
6	M7	Z	2.042	2.042	0	%100
7	M10	X	-1.179	-1.179	0	%100
8	M10	Z	2.042	2.042	0	%100
9	M49	X	-.091	-.091	0	%100
10	M49	Z	.158	.158	0	%100
11	M50	X	-.091	-.091	0	%100
12	M50	Z	.158	.158	0	%100
13	M47A	X	-.033	-.033	0	%100
14	M47A	Z	.057	.057	0	%100
15	M48A	X	-.033	-.033	0	%100
16	M48A	Z	.057	.057	0	%100
17	M37A	X	-.655	-.655	0	%100
18	M37A	Z	1.134	1.134	0	%100
19	M38A	X	-.652	-.652	0	%100
20	M38A	Z	1.129	1.129	0	%100
21	M39	X	-.652	-.652	0	%100
22	M39	Z	1.129	1.129	0	%100
23	M40A	X	-.544	-.544	0	%100
24	M40A	Z	.943	.943	0	%100
25	M41A	X	-.544	-.544	0	%100
26	M41A	Z	.943	.943	0	%100
27	O1	X	-.976	-.976	0	%100
28	O1	Z	1.691	1.691	0	%100
29	M43A	X	-.655	-.655	0	%100
30	M43A	Z	1.134	1.134	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
31	M44A	X	-.935	-.935	0 %100
32	M44A	Z	1.619	1.619	0 %100
33	M45	X	-.935	-.935	0 %100
34	M45	Z	1.619	1.619	0 %100
35	M46	X	-.652	-.652	0 %100
36	M46	Z	1.129	1.129	0 %100
37	M47B	X	-.652	-.652	0 %100
38	M47B	Z	1.129	1.129	0 %100
39	M35	X	-1.317	-1.317	0 %100
40	M35	Z	2.281	2.281	0 %100
41	M36	X	-1.317	-1.317	0 %100
42	M36	Z	2.281	2.281	0 %100
43	M37B	X	-.473	-.473	0 %100
44	M37B	Z	.82	.82	0 %100
45	M38B	X	-.473	-.473	0 %100
46	M38B	Z	.82	.82	0 %100
47	M39A	X	-.655	-.655	0 %100
48	M39A	Z	1.134	1.134	0 %100
49	M40B	X	-.652	-.652	0 %100
50	M40B	Z	1.129	1.129	0 %100
51	M41B	X	-.652	-.652	0 %100
52	M41B	Z	1.129	1.129	0 %100
53	M42A	X	-1.069	-1.069	0 %100
54	M42A	Z	1.852	1.852	0 %100
55	M43B	X	-1.069	-1.069	0 %100
56	M43B	Z	1.852	1.852	0 %100
57	O2	X	-.976	-.976	0 %100
58	O2	Z	1.691	1.691	0 %100
59	M45A	X	-.655	-.655	0 %100
60	M45A	Z	1.134	1.134	0 %100
61	M46B	X	-.935	-.935	0 %100
62	M46B	Z	1.619	1.619	0 %100
63	M47C	X	-.935	-.935	0 %100
64	M47C	Z	1.619	1.619	0 %100
65	M48B	X	-.652	-.652	0 %100
66	M48B	Z	1.129	1.129	0 %100
67	M49A	X	-.652	-.652	0 %100
68	M49A	Z	1.129	1.129	0 %100
69	MP5A	X	-1.343	-1.343	0 %100
70	MP5A	Z	2.325	2.325	0 %100
71	MP1A	X	-1.343	-1.343	0 %100
72	MP1A	Z	2.325	2.325	0 %100
73	MP3A	X	-1.343	-1.343	0 %100
74	MP3A	Z	2.325	2.325	0 %100
75	MP2A	X	-1.343	-1.343	0 %100
76	MP2A	Z	2.325	2.325	0 %100
77	MP4A	X	-1.341	-1.341	0 %100
78	MP4A	Z	2.322	2.322	0 %100
79	M56	X	-.095	-.095	0 %100
80	M56	Z	.164	.164	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.58	-.58	0 %100
2	M1	Z	.335	.335	0 %100
3	M3	X	-.58	-.58	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
4	M3	Z	.335	.335	0 %100
5	M7	X	-.681	-.681	0 %100
6	M7	Z	.393	.393	0 %100
7	M10	X	-.681	-.681	0 %100
8	M10	Z	.393	.393	0 %100
9	M49	X	-.17	-.17	0 %100
10	M49	Z	.098	.098	0 %100
11	M50	X	-.17	-.17	0 %100
12	M50	Z	.098	.098	0 %100
13	M47A	X	-.061	-.061	0 %100
14	M47A	Z	.035	.035	0 %100
15	M48A	X	-.061	-.061	0 %100
16	M48A	Z	.035	.035	0 %100
17	M37A	X	-1.554	-1.554	0 %100
18	M37A	Z	.897	.897	0 %100
19	M38A	X	-1.552	-1.552	0 %100
20	M38A	Z	.896	.896	0 %100
21	M39	X	-1.552	-1.552	0 %100
22	M39	Z	.896	.896	0 %100
23	M40A	X	-.948	-.948	0 %100
24	M40A	Z	.547	.547	0 %100
25	M41A	X	-.948	-.948	0 %100
26	M41A	Z	.547	.547	0 %100
27	O1	X	-1.736	-1.736	0 %100
28	O1	Z	1.002	1.002	0 %100
29	M43A	X	-1.554	-1.554	0 %100
30	M43A	Z	.897	.897	0 %100
31	M44A	X	-1.66	-1.66	0 %100
32	M44A	Z	.959	.959	0 %100
33	M45	X	-1.66	-1.66	0 %100
34	M45	Z	.959	.959	0 %100
35	M46	X	-1.552	-1.552	0 %100
36	M46	Z	.896	.896	0 %100
37	M47B	X	-1.552	-1.552	0 %100
38	M47B	Z	.896	.896	0 %100
39	M35	X	-2.293	-2.293	0 %100
40	M35	Z	1.324	1.324	0 %100
41	M36	X	-2.293	-2.293	0 %100
42	M36	Z	1.324	1.324	0 %100
43	M37B	X	-.824	-.824	0 %100
44	M37B	Z	.476	.476	0 %100
45	M38B	X	-.824	-.824	0 %100
46	M38B	Z	.476	.476	0 %100
47	M39A	X	-1.554	-1.554	0 %100
48	M39A	Z	.897	.897	0 %100
49	M40B	X	-1.552	-1.552	0 %100
50	M40B	Z	.896	.896	0 %100
51	M41B	X	-1.552	-1.552	0 %100
52	M41B	Z	.896	.896	0 %100
53	M42A	X	-1.857	-1.857	0 %100
54	M42A	Z	1.072	1.072	0 %100
55	M43B	X	-1.857	-1.857	0 %100
56	M43B	Z	1.072	1.072	0 %100
57	O2	X	-1.736	-1.736	0 %100
58	O2	Z	1.002	1.002	0 %100
59	M45A	X	-1.554	-1.554	0 %100
60	M45A	Z	.897	.897	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]	
61	M46B	X	-1.66	-1.66	0	%100
62	M46B	Z	.959	.959	0	%100
63	M47C	X	-1.66	-1.66	0	%100
64	M47C	Z	.959	.959	0	%100
65	M48B	X	-1.552	-1.552	0	%100
66	M48B	Z	.896	.896	0	%100
67	M49A	X	-1.552	-1.552	0	%100
68	M49A	Z	.896	.896	0	%100
69	MP5A	X	-2.409	-2.409	0	%100
70	MP5A	Z	1.391	1.391	0	%100
71	MP1A	X	-2.409	-2.409	0	%100
72	MP1A	Z	1.391	1.391	0	%100
73	MP3A	X	-2.409	-2.409	0	%100
74	MP3A	Z	1.391	1.391	0	%100
75	MP2A	X	-2.409	-2.409	0	%100
76	MP2A	Z	1.391	1.391	0	%100
77	MP4A	X	-2.399	-2.399	0	%100
78	MP4A	Z	1.385	1.385	0	%100
79	M56	X	-1.225	-1.225	0	%100
80	M56	Z	.707	.707	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]	
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M49	X	-1.429	-1.429	0	%100
10	M49	Z	0	0	0	%100
11	M50	X	-1.429	-1.429	0	%100
12	M50	Z	0	0	0	%100
13	M47A	X	-.514	-.514	0	%100
14	M47A	Z	0	0	0	%100
15	M48A	X	-.514	-.514	0	%100
16	M48A	Z	0	0	0	%100
17	M37A	X	-2.036	-2.036	0	%100
18	M37A	Z	0	0	0	%100
19	M38A	X	-2.036	-2.036	0	%100
20	M38A	Z	0	0	0	%100
21	M39	X	-2.036	-2.036	0	%100
22	M39	Z	0	0	0	%100
23	M40A	X	-1.623	-1.623	0	%100
24	M40A	Z	0	0	0	%100
25	M41A	X	-1.623	-1.623	0	%100
26	M41A	Z	0	0	0	%100
27	O1	X	-2.03	-2.03	0	%100
28	O1	Z	0	0	0	%100
29	M43A	X	-2.036	-2.036	0	%100
30	M43A	Z	0	0	0	%100
31	M44A	X	-1.941	-1.941	0	%100
32	M44A	Z	0	0	0	%100
33	M45	X	-1.941	-1.941	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
34	M45	Z	0	0	%100	
35	M46	X	-2.036	-2.036	0	%100
36	M46	Z	0	0	%100	
37	M47B	X	-2.036	-2.036	0	%100
38	M47B	Z	0	0	%100	
39	M35	X	-1.429	-1.429	0	%100
40	M35	Z	0	0	%100	
41	M36	X	-1.429	-1.429	0	%100
42	M36	Z	0	0	%100	
43	M37B	X	-514	-514	0	%100
44	M37B	Z	0	0	%100	
45	M38B	X	-514	-514	0	%100
46	M38B	Z	0	0	%100	
47	M39A	X	-2.036	-2.036	0	%100
48	M39A	Z	0	0	%100	
49	M40B	X	-2.036	-2.036	0	%100
50	M40B	Z	0	0	%100	
51	M41B	X	-2.036	-2.036	0	%100
52	M41B	Z	0	0	%100	
53	M42A	X	-1.623	-1.623	0	%100
54	M42A	Z	0	0	%100	
55	M43B	X	-1.623	-1.623	0	%100
56	M43B	Z	0	0	%100	
57	O2	X	-2.03	-2.03	0	%100
58	O2	Z	0	0	%100	
59	M45A	X	-2.036	-2.036	0	%100
60	M45A	Z	0	0	%100	
61	M46B	X	-1.941	-1.941	0	%100
62	M46B	Z	0	0	%100	
63	M47C	X	-1.941	-1.941	0	%100
64	M47C	Z	0	0	%100	
65	M48B	X	-2.036	-2.036	0	%100
66	M48B	Z	0	0	%100	
67	M49A	X	-2.036	-2.036	0	%100
68	M49A	Z	0	0	%100	
69	MP5A	X	-2.83	-2.83	0	%100
70	MP5A	Z	0	0	%100	
71	MP1A	X	-2.83	-2.83	0	%100
72	MP1A	Z	0	0	%100	
73	MP3A	X	-2.83	-2.83	0	%100
74	MP3A	Z	0	0	%100	
75	MP2A	X	-2.83	-2.83	0	%100
76	MP2A	Z	0	0	%100	
77	MP4A	X	-2.814	-2.814	0	%100
78	MP4A	Z	0	0	%100	
79	M56	X	-2.64	-2.64	0	%100
80	M56	Z	0	0	%100	

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
1	M1	X	-.58	-.58	0	%100
2	M1	Z	-.335	-.335	0	%100
3	M3	X	-.58	-.58	0	%100
4	M3	Z	-.335	-.335	0	%100
5	M7	X	-681	-681	0	%100
6	M7	Z	-393	-393	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,kSF]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
7	M10	X	-.681	-.681	0 %100
8	M10	Z	-.393	-.393	0 %100
9	M49	X	-2.293	-2.293	0 %100
10	M49	Z	-1.324	-1.324	0 %100
11	M50	X	-2.293	-2.293	0 %100
12	M50	Z	-1.324	-1.324	0 %100
13	M47A	X	-.824	-.824	0 %100
14	M47A	Z	-.476	-.476	0 %100
15	M48A	X	-.824	-.824	0 %100
16	M48A	Z	-.476	-.476	0 %100
17	M37A	X	-1.554	-1.554	0 %100
18	M37A	Z	-.897	-.897	0 %100
19	M38A	X	-1.552	-1.552	0 %100
20	M38A	Z	-.896	-.896	0 %100
21	M39	X	-1.552	-1.552	0 %100
22	M39	Z	-.896	-.896	0 %100
23	M40A	X	-1.857	-1.857	0 %100
24	M40A	Z	-1.072	-1.072	0 %100
25	M41A	X	-1.857	-1.857	0 %100
26	M41A	Z	-1.072	-1.072	0 %100
27	O1	X	-1.736	-1.736	0 %100
28	O1	Z	-1.002	-1.002	0 %100
29	M43A	X	-1.554	-1.554	0 %100
30	M43A	Z	-.897	-.897	0 %100
31	M44A	X	-1.66	-1.66	0 %100
32	M44A	Z	-.959	-.959	0 %100
33	M45	X	-1.66	-1.66	0 %100
34	M45	Z	-.959	-.959	0 %100
35	M46	X	-1.552	-1.552	0 %100
36	M46	Z	-.896	-.896	0 %100
37	M47B	X	-1.552	-1.552	0 %100
38	M47B	Z	-.896	-.896	0 %100
39	M35	X	-.17	-.17	0 %100
40	M35	Z	-.098	-.098	0 %100
41	M36	X	-.17	-.17	0 %100
42	M36	Z	-.098	-.098	0 %100
43	M37B	X	-.061	-.061	0 %100
44	M37B	Z	-.035	-.035	0 %100
45	M38B	X	-.061	-.061	0 %100
46	M38B	Z	-.035	-.035	0 %100
47	M39A	X	-1.554	-1.554	0 %100
48	M39A	Z	-.897	-.897	0 %100
49	M40B	X	-1.552	-1.552	0 %100
50	M40B	Z	-.896	-.896	0 %100
51	M41B	X	-1.552	-1.552	0 %100
52	M41B	Z	-.896	-.896	0 %100
53	M42A	X	-.948	-.948	0 %100
54	M42A	Z	-.547	-.547	0 %100
55	M43B	X	-.948	-.948	0 %100
56	M43B	Z	-.547	-.547	0 %100
57	O2	X	-1.736	-1.736	0 %100
58	O2	Z	-1.002	-1.002	0 %100
59	M45A	X	-1.554	-1.554	0 %100
60	M45A	Z	-.897	-.897	0 %100
61	M46B	X	-1.66	-1.66	0 %100
62	M46B	Z	-.959	-.959	0 %100
63	M47C	X	-1.66	-1.66	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
64	M47C	Z	-0.959	-0.959	0 %100
65	M48B	X	-1.552	-1.552	0 %100
66	M48B	Z	-0.896	-0.896	0 %100
67	M49A	X	-1.552	-1.552	0 %100
68	M49A	Z	-0.896	-0.896	0 %100
69	MP5A	X	-2.409	-2.409	0 %100
70	MP5A	Z	-1.391	-1.391	0 %100
71	MP1A	X	-2.409	-2.409	0 %100
72	MP1A	Z	-1.391	-1.391	0 %100
73	MP3A	X	-2.409	-2.409	0 %100
74	MP3A	Z	-1.391	-1.391	0 %100
75	MP2A	X	-2.409	-2.409	0 %100
76	MP2A	Z	-1.391	-1.391	0 %100
77	MP4A	X	-2.399	-2.399	0 %100
78	MP4A	Z	-1.385	-1.385	0 %100
79	M56	X	-2.287	-2.287	0 %100
80	M56	Z	-1.32	-1.32	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.005	-1.005	0 %100
2	M1	Z	-1.74	-1.74	0 %100
3	M3	X	-1.005	-1.005	0 %100
4	M3	Z	-1.74	-1.74	0 %100
5	M7	X	-1.179	-1.179	0 %100
6	M7	Z	-2.042	-2.042	0 %100
7	M10	X	-1.179	-1.179	0 %100
8	M10	Z	-2.042	-2.042	0 %100
9	M49	X	-1.317	-1.317	0 %100
10	M49	Z	-2.281	-2.281	0 %100
11	M50	X	-1.317	-1.317	0 %100
12	M50	Z	-2.281	-2.281	0 %100
13	M47A	X	-0.473	-0.473	0 %100
14	M47A	Z	-0.82	-0.82	0 %100
15	M48A	X	-0.473	-0.473	0 %100
16	M48A	Z	-0.82	-0.82	0 %100
17	M37A	X	-0.655	-0.655	0 %100
18	M37A	Z	-1.134	-1.134	0 %100
19	M38A	X	-0.652	-0.652	0 %100
20	M38A	Z	-1.129	-1.129	0 %100
21	M39	X	-0.652	-0.652	0 %100
22	M39	Z	-1.129	-1.129	0 %100
23	M40A	X	-1.069	-1.069	0 %100
24	M40A	Z	-1.852	-1.852	0 %100
25	M41A	X	-1.069	-1.069	0 %100
26	M41A	Z	-1.852	-1.852	0 %100
27	O1	X	-0.976	-0.976	0 %100
28	O1	Z	-1.691	-1.691	0 %100
29	M43A	X	-0.655	-0.655	0 %100
30	M43A	Z	-1.134	-1.134	0 %100
31	M44A	X	-0.935	-0.935	0 %100
32	M44A	Z	-1.619	-1.619	0 %100
33	M45	X	-0.935	-0.935	0 %100
34	M45	Z	-1.619	-1.619	0 %100
35	M46	X	-0.652	-0.652	0 %100
36	M46	Z	-1.129	-1.129	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
37	M47B	X	-.652	-652	0 %100
38	M47B	Z	-1.129	-1.129	0 %100
39	M35	X	-.091	-.091	0 %100
40	M35	Z	-.158	-.158	0 %100
41	M36	X	-.091	-.091	0 %100
42	M36	Z	-.158	-.158	0 %100
43	M37B	X	-.033	-.033	0 %100
44	M37B	Z	-.057	-.057	0 %100
45	M38B	X	-.033	-.033	0 %100
46	M38B	Z	-.057	-.057	0 %100
47	M39A	X	-.655	-.655	0 %100
48	M39A	Z	-1.134	-1.134	0 %100
49	M40B	X	-.652	-.652	0 %100
50	M40B	Z	-1.129	-1.129	0 %100
51	M41B	X	-.652	-.652	0 %100
52	M41B	Z	-1.129	-1.129	0 %100
53	M42A	X	-.544	-.544	0 %100
54	M42A	Z	-.943	-.943	0 %100
55	M43B	X	-.544	-.544	0 %100
56	M43B	Z	-.943	-.943	0 %100
57	O2	X	-.976	-.976	0 %100
58	O2	Z	-1.691	-1.691	0 %100
59	M45A	X	-.655	-.655	0 %100
60	M45A	Z	-1.134	-1.134	0 %100
61	M46B	X	-.935	-.935	0 %100
62	M46B	Z	-1.619	-1.619	0 %100
63	M47C	X	-.935	-.935	0 %100
64	M47C	Z	-1.619	-1.619	0 %100
65	M48B	X	-.652	-.652	0 %100
66	M48B	Z	-1.129	-1.129	0 %100
67	M49A	X	-.652	-.652	0 %100
68	M49A	Z	-1.129	-1.129	0 %100
69	MP5A	X	-1.343	-1.343	0 %100
70	MP5A	Z	-2.325	-2.325	0 %100
71	MP1A	X	-1.343	-1.343	0 %100
72	MP1A	Z	-2.325	-2.325	0 %100
73	MP3A	X	-1.343	-1.343	0 %100
74	MP3A	Z	-2.325	-2.325	0 %100
75	MP2A	X	-1.343	-1.343	0 %100
76	MP2A	Z	-2.325	-2.325	0 %100
77	MP4A	X	-1.341	-1.341	0 %100
78	MP4A	Z	-2.322	-2.322	0 %100
79	M56	X	-.707	-.707	0 %100
80	M56	Z	-1.225	-1.225	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	-.677	-.677	0 %100
3	M3	X	0	0	0 %100
4	M3	Z	-.677	-.677	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	-.649	-.649	0 %100
7	M10	X	0	0	0 %100
8	M10	Z	-.649	-.649	0 %100
9	M49	X	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
10	M49	Z	-.265	-.265	0 %100
11	M50	X	0	0	0 %100
12	M50	Z	-.265	-.265	0 %100
13	M47A	X	0	0	0 %100
14	M47A	Z	-.042	-.042	0 %100
15	M48A	X	0	0	0 %100
16	M48A	Z	-.042	-.042	0 %100
17	M37A	X	0	0	0 %100
18	M37A	Z	-.103	-.103	0 %100
19	M38A	X	0	0	0 %100
20	M38A	Z	-.099	-.099	0 %100
21	M39	X	0	0	0 %100
22	M39	Z	-.099	-.099	0 %100
23	M40A	X	0	0	0 %100
24	M40A	Z	-.261	-.261	0 %100
25	M41A	X	0	0	0 %100
26	M41A	Z	-.261	-.261	0 %100
27	O1	X	0	0	0 %100
28	O1	Z	-.342	-.342	0 %100
29	M43A	X	0	0	0 %100
30	M43A	Z	-.103	-.103	0 %100
31	M44A	X	0	0	0 %100
32	M44A	Z	-.286	-.286	0 %100
33	M45	X	0	0	0 %100
34	M45	Z	-.286	-.286	0 %100
35	M46	X	0	0	0 %100
36	M46	Z	-.099	-.099	0 %100
37	M47B	X	0	0	0 %100
38	M47B	Z	-.099	-.099	0 %100
39	M35	X	0	0	0 %100
40	M35	Z	-.265	-.265	0 %100
41	M36	X	0	0	0 %100
42	M36	Z	-.265	-.265	0 %100
43	M37B	X	0	0	0 %100
44	M37B	Z	-.042	-.042	0 %100
45	M38B	X	0	0	0 %100
46	M38B	Z	-.042	-.042	0 %100
47	M39A	X	0	0	0 %100
48	M39A	Z	-.103	-.103	0 %100
49	M40B	X	0	0	0 %100
50	M40B	Z	-.099	-.099	0 %100
51	M41B	X	0	0	0 %100
52	M41B	Z	-.099	-.099	0 %100
53	M42A	X	0	0	0 %100
54	M42A	Z	-.261	-.261	0 %100
55	M43B	X	0	0	0 %100
56	M43B	Z	-.261	-.261	0 %100
57	O2	X	0	0	0 %100
58	O2	Z	-.342	-.342	0 %100
59	M45A	X	0	0	0 %100
60	M45A	Z	-.103	-.103	0 %100
61	M46B	X	0	0	0 %100
62	M46B	Z	-.286	-.286	0 %100
63	M47C	X	0	0	0 %100
64	M47C	Z	-.286	-.286	0 %100
65	M48B	X	0	0	0 %100
66	M48B	Z	-.099	-.099	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
67	M49A	X	0	0	0	%100
68	M49A	Z	-.099	-.099	0	%100
69	MP5A	X	0	0	0	%100
70	MP5A	Z	-.466	-.466	0	%100
71	MP1A	X	0	0	0	%100
72	MP1A	Z	-.466	-.466	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-.466	-.466	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-.466	-.466	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	-.466	-.466	0	%100
79	M56	X	0	0	0	%100
80	M56	Z	-.036	-.036	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.254	.254	0	%100
2	M1	Z	-.44	-.44	0	%100
3	M3	X	.254	.254	0	%100
4	M3	Z	-.44	-.44	0	%100
5	M7	X	.243	.243	0	%100
6	M7	Z	-.421	-.421	0	%100
7	M10	X	.243	.243	0	%100
8	M10	Z	-.421	-.421	0	%100
9	M49	X	.017	.017	0	%100
10	M49	Z	-.03	-.03	0	%100
11	M50	X	.017	.017	0	%100
12	M50	Z	-.03	-.03	0	%100
13	M47A	X	.003	.003	0	%100
14	M47A	Z	-.005	-.005	0	%100
15	M48A	X	.003	.003	0	%100
16	M48A	Z	-.005	-.005	0	%100
17	M37A	X	.095	.095	0	%100
18	M37A	Z	-.164	-.164	0	%100
19	M38A	X	.094	.094	0	%100
20	M38A	Z	-.162	-.162	0	%100
21	M39	X	.094	.094	0	%100
22	M39	Z	-.162	-.162	0	%100
23	M40A	X	.084	.084	0	%100
24	M40A	Z	-.145	-.145	0	%100
25	M41A	X	.084	.084	0	%100
26	M41A	Z	-.145	-.145	0	%100
27	O1	X	.176	.176	0	%100
28	O1	Z	-.305	-.305	0	%100
29	M43A	X	.095	.095	0	%100
30	M43A	Z	-.164	-.164	0	%100
31	M44A	X	.147	.147	0	%100
32	M44A	Z	-.255	-.255	0	%100
33	M45	X	.147	.147	0	%100
34	M45	Z	-.255	-.255	0	%100
35	M46	X	.094	.094	0	%100
36	M46	Z	-.162	-.162	0	%100
37	M47B	X	.094	.094	0	%100
38	M47B	Z	-.162	-.162	0	%100
39	M35	X	.249	.249	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
40	M35	Z	-.432	-.432	0	%100
41	M36	X	.249	.249	0	%100
42	M36	Z	-.432	-.432	0	%100
43	M37B	X	.039	.039	0	%100
44	M37B	Z	-.068	-.068	0	%100
45	M38B	X	.039	.039	0	%100
46	M38B	Z	-.068	-.068	0	%100
47	M39A	X	.095	.095	0	%100
48	M39A	Z	-.164	-.164	0	%100
49	M40B	X	.094	.094	0	%100
50	M40B	Z	-.162	-.162	0	%100
51	M41B	X	.094	.094	0	%100
52	M41B	Z	-.162	-.162	0	%100
53	M42A	X	.178	.178	0	%100
54	M42A	Z	-.308	-.308	0	%100
55	M43B	X	.178	.178	0	%100
56	M43B	Z	-.308	-.308	0	%100
57	O2	X	.176	.176	0	%100
58	O2	Z	-.305	-.305	0	%100
59	M45A	X	.095	.095	0	%100
60	M45A	Z	-.164	-.164	0	%100
61	M46B	X	.147	.147	0	%100
62	M46B	Z	-.255	-.255	0	%100
63	M47C	X	.147	.147	0	%100
64	M47C	Z	-.255	-.255	0	%100
65	M48B	X	.094	.094	0	%100
66	M48B	Z	-.162	-.162	0	%100
67	M49A	X	.094	.094	0	%100
68	M49A	Z	-.162	-.162	0	%100
69	MP5A	X	.242	.242	0	%100
70	MP5A	Z	-.419	-.419	0	%100
71	MP1A	X	.242	.242	0	%100
72	MP1A	Z	-.419	-.419	0	%100
73	MP3A	X	.242	.242	0	%100
74	MP3A	Z	-.419	-.419	0	%100
75	MP2A	X	.242	.242	0	%100
76	MP2A	Z	-.419	-.419	0	%100
77	MP4A	X	.241	.241	0	%100
78	MP4A	Z	-.418	-.418	0	%100
79	M56	X	.018	.018	0	%100
80	M56	Z	-.031	-.031	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.147	.147	0	%100
2	M1	Z	-.085	-.085	0	%100
3	M3	X	.147	.147	0	%100
4	M3	Z	-.085	-.085	0	%100
5	M7	X	.14	.14	0	%100
6	M7	Z	-.081	-.081	0	%100
7	M10	X	.14	.14	0	%100
8	M10	Z	-.081	-.081	0	%100
9	M49	X	.032	.032	0	%100
10	M49	Z	-.019	-.019	0	%100
11	M50	X	.032	.032	0	%100
12	M50	Z	-.019	-.019	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
13	M47A	X	.005	.005	0 %100
14	M47A	Z	-.003	-.003	0 %100
15	M48A	X	.005	.005	0 %100
16	M48A	Z	-.003	-.003	0 %100
17	M37A	X	.315	.315	0 %100
18	M37A	Z	-.182	-.182	0 %100
19	M38A	X	.315	.315	0 %100
20	M38A	Z	-.182	-.182	0 %100
21	M39	X	.315	.315	0 %100
22	M39	Z	-.182	-.182	0 %100
23	M40A	X	.146	.146	0 %100
24	M40A	Z	-.084	-.084	0 %100
25	M41A	X	.146	.146	0 %100
26	M41A	Z	-.084	-.084	0 %100
27	O1	X	.321	.321	0 %100
28	O1	Z	-.185	-.185	0 %100
29	M43A	X	.315	.315	0 %100
30	M43A	Z	-.182	-.182	0 %100
31	M44A	X	.27	.27	0 %100
32	M44A	Z	-.156	-.156	0 %100
33	M45	X	.27	.27	0 %100
34	M45	Z	-.156	-.156	0 %100
35	M46	X	.315	.315	0 %100
36	M46	Z	-.182	-.182	0 %100
37	M47B	X	.315	.315	0 %100
38	M47B	Z	-.182	-.182	0 %100
39	M35	X	.434	.434	0 %100
40	M35	Z	-.251	-.251	0 %100
41	M36	X	.434	.434	0 %100
42	M36	Z	-.251	-.251	0 %100
43	M37B	X	.069	.069	0 %100
44	M37B	Z	-.04	-.04	0 %100
45	M38B	X	.069	.069	0 %100
46	M38B	Z	-.04	-.04	0 %100
47	M39A	X	.315	.315	0 %100
48	M39A	Z	-.182	-.182	0 %100
49	M40B	X	.315	.315	0 %100
50	M40B	Z	-.182	-.182	0 %100
51	M41B	X	.315	.315	0 %100
52	M41B	Z	-.182	-.182	0 %100
53	M42A	X	.309	.309	0 %100
54	M42A	Z	-.178	-.178	0 %100
55	M43B	X	.309	.309	0 %100
56	M43B	Z	-.178	-.178	0 %100
57	O2	X	.321	.321	0 %100
58	O2	Z	-.185	-.185	0 %100
59	M45A	X	.315	.315	0 %100
60	M45A	Z	-.182	-.182	0 %100
61	M46B	X	.27	.27	0 %100
62	M46B	Z	-.156	-.156	0 %100
63	M47C	X	.27	.27	0 %100
64	M47C	Z	-.156	-.156	0 %100
65	M48B	X	.315	.315	0 %100
66	M48B	Z	-.182	-.182	0 %100
67	M49A	X	.315	.315	0 %100
68	M49A	Z	-.182	-.182	0 %100
69	MP5A	X	.449	.449	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
70	MP5A	Z	-.259	-.259	0	%100
71	MP1A	X	.449	.449	0	%100
72	MP1A	Z	-.259	-.259	0	%100
73	MP3A	X	.449	.449	0	%100
74	MP3A	Z	-.259	-.259	0	%100
75	MP2A	X	.449	.449	0	%100
76	MP2A	Z	-.259	-.259	0	%100
77	MP4A	X	.445	.445	0	%100
78	MP4A	Z	-.257	-.257	0	%100
79	M56	X	.232	.232	0	%100
80	M56	Z	-.134	-.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M49	X	.271	.271	0	%100
10	M49	Z	0	0	0	%100
11	M50	X	.271	.271	0	%100
12	M50	Z	0	0	0	%100
13	M47A	X	.043	.043	0	%100
14	M47A	Z	0	0	0	%100
15	M48A	X	.043	.043	0	%100
16	M48A	Z	0	0	0	%100
17	M37A	X	.451	.451	0	%100
18	M37A	Z	0	0	0	%100
19	M38A	X	.451	.451	0	%100
20	M38A	Z	0	0	0	%100
21	M39	X	.451	.451	0	%100
22	M39	Z	0	0	0	%100
23	M40A	X	.263	.263	0	%100
24	M40A	Z	0	0	0	%100
25	M41A	X	.263	.263	0	%100
26	M41A	Z	0	0	0	%100
27	O1	X	.38	.38	0	%100
28	O1	Z	0	0	0	%100
29	M43A	X	.451	.451	0	%100
30	M43A	Z	0	0	0	%100
31	M44A	X	.32	.32	0	%100
32	M44A	Z	0	0	0	%100
33	M45	X	.32	.32	0	%100
34	M45	Z	0	0	0	%100
35	M46	X	.451	.451	0	%100
36	M46	Z	0	0	0	%100
37	M47B	X	.451	.451	0	%100
38	M47B	Z	0	0	0	%100
39	M35	X	.271	.271	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	.271	.271	0	%100
42	M36	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
43	M37B	X	.043	.043	0 %100
44	M37B	Z	0	0	0 %100
45	M38B	X	.043	.043	0 %100
46	M38B	Z	0	0	0 %100
47	M39A	X	.451	.451	0 %100
48	M39A	Z	0	0	0 %100
49	M40B	X	.451	.451	0 %100
50	M40B	Z	0	0	0 %100
51	M41B	X	.451	.451	0 %100
52	M41B	Z	0	0	0 %100
53	M42A	X	.263	.263	0 %100
54	M42A	Z	0	0	0 %100
55	M43B	X	.263	.263	0 %100
56	M43B	Z	0	0	0 %100
57	O2	X	.38	.38	0 %100
58	O2	Z	0	0	0 %100
59	M45A	X	.451	.451	0 %100
60	M45A	Z	0	0	0 %100
61	M46B	X	.32	.32	0 %100
62	M46B	Z	0	0	0 %100
63	M47C	X	.32	.32	0 %100
64	M47C	Z	0	0	0 %100
65	M48B	X	.451	.451	0 %100
66	M48B	Z	0	0	0 %100
67	M49A	X	.451	.451	0 %100
68	M49A	Z	0	0	0 %100
69	MP5A	X	.536	.536	0 %100
70	MP5A	Z	0	0	0 %100
71	MP1A	X	.536	.536	0 %100
72	MP1A	Z	0	0	0 %100
73	MP3A	X	.536	.536	0 %100
74	MP3A	Z	0	0	0 %100
75	MP2A	X	.536	.536	0 %100
76	MP2A	Z	0	0	0 %100
77	MP4A	X	.53	.53	0 %100
78	MP4A	Z	0	0	0 %100
79	M56	X	.5	.5	0 %100
80	M56	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.147	.147	0 %100
2	M1	Z	.085	.085	0 %100
3	M3	X	.147	.147	0 %100
4	M3	Z	.085	.085	0 %100
5	M7	X	.14	.14	0 %100
6	M7	Z	.081	.081	0 %100
7	M10	X	.14	.14	0 %100
8	M10	Z	.081	.081	0 %100
9	M49	X	.434	.434	0 %100
10	M49	Z	.251	.251	0 %100
11	M50	X	.434	.434	0 %100
12	M50	Z	.251	.251	0 %100
13	M47A	X	.069	.069	0 %100
14	M47A	Z	.04	.04	0 %100
15	M48A	X	.069	.069	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
16	M48A	Z	.04	.04	0	%100
17	M37A	X	.315	.315	0	%100
18	M37A	Z	.182	.182	0	%100
19	M38A	X	.315	.315	0	%100
20	M38A	Z	.182	.182	0	%100
21	M39	X	.315	.315	0	%100
22	M39	Z	.182	.182	0	%100
23	M40A	X	.309	.309	0	%100
24	M40A	Z	.178	.178	0	%100
25	M41A	X	.309	.309	0	%100
26	M41A	Z	.178	.178	0	%100
27	O1	X	.321	.321	0	%100
28	O1	Z	.185	.185	0	%100
29	M43A	X	.315	.315	0	%100
30	M43A	Z	.182	.182	0	%100
31	M44A	X	.27	.27	0	%100
32	M44A	Z	.156	.156	0	%100
33	M45	X	.27	.27	0	%100
34	M45	Z	.156	.156	0	%100
35	M46	X	.315	.315	0	%100
36	M46	Z	.182	.182	0	%100
37	M47B	X	.315	.315	0	%100
38	M47B	Z	.182	.182	0	%100
39	M35	X	.032	.032	0	%100
40	M35	Z	.019	.019	0	%100
41	M36	X	.032	.032	0	%100
42	M36	Z	.019	.019	0	%100
43	M37B	X	.005	.005	0	%100
44	M37B	Z	.003	.003	0	%100
45	M38B	X	.005	.005	0	%100
46	M38B	Z	.003	.003	0	%100
47	M39A	X	.315	.315	0	%100
48	M39A	Z	.182	.182	0	%100
49	M40B	X	.315	.315	0	%100
50	M40B	Z	.182	.182	0	%100
51	M41B	X	.315	.315	0	%100
52	M41B	Z	.182	.182	0	%100
53	M42A	X	.146	.146	0	%100
54	M42A	Z	.084	.084	0	%100
55	M43B	X	.146	.146	0	%100
56	M43B	Z	.084	.084	0	%100
57	O2	X	.321	.321	0	%100
58	O2	Z	.185	.185	0	%100
59	M45A	X	.315	.315	0	%100
60	M45A	Z	.182	.182	0	%100
61	M46B	X	.27	.27	0	%100
62	M46B	Z	.156	.156	0	%100
63	M47C	X	.27	.27	0	%100
64	M47C	Z	.156	.156	0	%100
65	M48B	X	.315	.315	0	%100
66	M48B	Z	.182	.182	0	%100
67	M49A	X	.315	.315	0	%100
68	M49A	Z	.182	.182	0	%100
69	MP5A	X	.449	.449	0	%100
70	MP5A	Z	.259	.259	0	%100
71	MP1A	X	.449	.449	0	%100
72	MP1A	Z	.259	.259	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
73	MP3A	X	.449	.449	0	%100
74	MP3A	Z	.259	.259	0	%100
75	MP2A	X	.449	.449	0	%100
76	MP2A	Z	.259	.259	0	%100
77	MP4A	X	.445	.445	0	%100
78	MP4A	Z	.257	.257	0	%100
79	M56	X	.433	.433	0	%100
80	M56	Z	.25	.25	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.254	.254	0	%100
2	M1	Z	.44	.44	0	%100
3	M3	X	.254	.254	0	%100
4	M3	Z	.44	.44	0	%100
5	M7	X	.243	.243	0	%100
6	M7	Z	.421	.421	0	%100
7	M10	X	.243	.243	0	%100
8	M10	Z	.421	.421	0	%100
9	M49	X	.249	.249	0	%100
10	M49	Z	.432	.432	0	%100
11	M50	X	.249	.249	0	%100
12	M50	Z	.432	.432	0	%100
13	M47A	X	.039	.039	0	%100
14	M47A	Z	.068	.068	0	%100
15	M48A	X	.039	.039	0	%100
16	M48A	Z	.068	.068	0	%100
17	M37A	X	.095	.095	0	%100
18	M37A	Z	.164	.164	0	%100
19	M38A	X	.094	.094	0	%100
20	M38A	Z	.162	.162	0	%100
21	M39	X	.094	.094	0	%100
22	M39	Z	.162	.162	0	%100
23	M40A	X	.178	.178	0	%100
24	M40A	Z	.308	.308	0	%100
25	M41A	X	.178	.178	0	%100
26	M41A	Z	.308	.308	0	%100
27	O1	X	.176	.176	0	%100
28	O1	Z	.305	.305	0	%100
29	M43A	X	.095	.095	0	%100
30	M43A	Z	.164	.164	0	%100
31	M44A	X	.147	.147	0	%100
32	M44A	Z	.255	.255	0	%100
33	M45	X	.147	.147	0	%100
34	M45	Z	.255	.255	0	%100
35	M46	X	.094	.094	0	%100
36	M46	Z	.162	.162	0	%100
37	M47B	X	.094	.094	0	%100
38	M47B	Z	.162	.162	0	%100
39	M35	X	.017	.017	0	%100
40	M35	Z	.03	.03	0	%100
41	M36	X	.017	.017	0	%100
42	M36	Z	.03	.03	0	%100
43	M37B	X	.003	.003	0	%100
44	M37B	Z	.005	.005	0	%100
45	M38B	X	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
46	M38B	Z	.005	.005	0	%100
47	M39A	X	.095	.095	0	%100
48	M39A	Z	.164	.164	0	%100
49	M40B	X	.094	.094	0	%100
50	M40B	Z	.162	.162	0	%100
51	M41B	X	.094	.094	0	%100
52	M41B	Z	.162	.162	0	%100
53	M42A	X	.084	.084	0	%100
54	M42A	Z	.145	.145	0	%100
55	M43B	X	.084	.084	0	%100
56	M43B	Z	.145	.145	0	%100
57	O2	X	.176	.176	0	%100
58	O2	Z	.305	.305	0	%100
59	M45A	X	.095	.095	0	%100
60	M45A	Z	.164	.164	0	%100
61	M46B	X	.147	.147	0	%100
62	M46B	Z	.255	.255	0	%100
63	M47C	X	.147	.147	0	%100
64	M47C	Z	.255	.255	0	%100
65	M48B	X	.094	.094	0	%100
66	M48B	Z	.162	.162	0	%100
67	M49A	X	.094	.094	0	%100
68	M49A	Z	.162	.162	0	%100
69	MP5A	X	.242	.242	0	%100
70	MP5A	Z	.419	.419	0	%100
71	MP1A	X	.242	.242	0	%100
72	MP1A	Z	.419	.419	0	%100
73	MP3A	X	.242	.242	0	%100
74	MP3A	Z	.419	.419	0	%100
75	MP2A	X	.242	.242	0	%100
76	MP2A	Z	.419	.419	0	%100
77	MP4A	X	.241	.241	0	%100
78	MP4A	Z	.418	.418	0	%100
79	M56	X	.134	.134	0	%100
80	M56	Z	.232	.232	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	.677	.677	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	.677	.677	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	.649	.649	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	.649	.649	0	%100
9	M49	X	0	0	0	%100
10	M49	Z	.265	.265	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	.265	.265	0	%100
13	M47A	X	0	0	0	%100
14	M47A	Z	.042	.042	0	%100
15	M48A	X	0	0	0	%100
16	M48A	Z	.042	.042	0	%100
17	M37A	X	0	0	0	%100
18	M37A	Z	.103	.103	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
19	M38A	X	0	0	%100	
20	M38A	Z	.099	.099	0	%100
21	M39	X	0	0	0	%100
22	M39	Z	.099	.099	0	%100
23	M40A	X	0	0	0	%100
24	M40A	Z	.261	.261	0	%100
25	M41A	X	0	0	0	%100
26	M41A	Z	.261	.261	0	%100
27	O1	X	0	0	0	%100
28	O1	Z	.342	.342	0	%100
29	M43A	X	0	0	0	%100
30	M43A	Z	.103	.103	0	%100
31	M44A	X	0	0	0	%100
32	M44A	Z	.286	.286	0	%100
33	M45	X	0	0	0	%100
34	M45	Z	.286	.286	0	%100
35	M46	X	0	0	0	%100
36	M46	Z	.099	.099	0	%100
37	M47B	X	0	0	0	%100
38	M47B	Z	.099	.099	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	.265	.265	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	.265	.265	0	%100
43	M37B	X	0	0	0	%100
44	M37B	Z	.042	.042	0	%100
45	M38B	X	0	0	0	%100
46	M38B	Z	.042	.042	0	%100
47	M39A	X	0	0	0	%100
48	M39A	Z	.103	.103	0	%100
49	M40B	X	0	0	0	%100
50	M40B	Z	.099	.099	0	%100
51	M41B	X	0	0	0	%100
52	M41B	Z	.099	.099	0	%100
53	M42A	X	0	0	0	%100
54	M42A	Z	.261	.261	0	%100
55	M43B	X	0	0	0	%100
56	M43B	Z	.261	.261	0	%100
57	O2	X	0	0	0	%100
58	O2	Z	.342	.342	0	%100
59	M45A	X	0	0	0	%100
60	M45A	Z	.103	.103	0	%100
61	M46B	X	0	0	0	%100
62	M46B	Z	.286	.286	0	%100
63	M47C	X	0	0	0	%100
64	M47C	Z	.286	.286	0	%100
65	M48B	X	0	0	0	%100
66	M48B	Z	.099	.099	0	%100
67	M49A	X	0	0	0	%100
68	M49A	Z	.099	.099	0	%100
69	MP5A	X	0	0	0	%100
70	MP5A	Z	.466	.466	0	%100
71	MP1A	X	0	0	0	%100
72	MP1A	Z	.466	.466	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	.466	.466	0	%100
75	MP2A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
76	MP2A	Z	.466	.466	0	%100
77	MP4A	X	0	0	0	%100
78	MP4A	Z	.466	.466	0	%100
79	M56	X	0	0	0	%100
80	M56	Z	.036	.036	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.254	-.254	0	%100
2	M1	Z	.44	.44	0	%100
3	M3	X	-.254	-.254	0	%100
4	M3	Z	.44	.44	0	%100
5	M7	X	-.243	-.243	0	%100
6	M7	Z	.421	.421	0	%100
7	M10	X	-.243	-.243	0	%100
8	M10	Z	.421	.421	0	%100
9	M49	X	-.017	-.017	0	%100
10	M49	Z	.03	.03	0	%100
11	M50	X	-.017	-.017	0	%100
12	M50	Z	.03	.03	0	%100
13	M47A	X	-.003	-.003	0	%100
14	M47A	Z	.005	.005	0	%100
15	M48A	X	-.003	-.003	0	%100
16	M48A	Z	.005	.005	0	%100
17	M37A	X	-.095	-.095	0	%100
18	M37A	Z	.164	.164	0	%100
19	M38A	X	-.094	-.094	0	%100
20	M38A	Z	.162	.162	0	%100
21	M39	X	-.094	-.094	0	%100
22	M39	Z	.162	.162	0	%100
23	M40A	X	-.084	-.084	0	%100
24	M40A	Z	.145	.145	0	%100
25	M41A	X	-.084	-.084	0	%100
26	M41A	Z	.145	.145	0	%100
27	O1	X	-.176	-.176	0	%100
28	O1	Z	.305	.305	0	%100
29	M43A	X	-.095	-.095	0	%100
30	M43A	Z	.164	.164	0	%100
31	M44A	X	-.147	-.147	0	%100
32	M44A	Z	.255	.255	0	%100
33	M45	X	-.147	-.147	0	%100
34	M45	Z	.255	.255	0	%100
35	M46	X	-.094	-.094	0	%100
36	M46	Z	.162	.162	0	%100
37	M47B	X	-.094	-.094	0	%100
38	M47B	Z	.162	.162	0	%100
39	M35	X	-.249	-.249	0	%100
40	M35	Z	.432	.432	0	%100
41	M36	X	-.249	-.249	0	%100
42	M36	Z	.432	.432	0	%100
43	M37B	X	-.039	-.039	0	%100
44	M37B	Z	.068	.068	0	%100
45	M38B	X	-.039	-.039	0	%100
46	M38B	Z	.068	.068	0	%100
47	M39A	X	-.095	-.095	0	%100
48	M39A	Z	.164	.164	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
49	M40B	X	-.094	-.094	0	%100
50	M40B	Z	.162	.162	0	%100
51	M41B	X	-.094	-.094	0	%100
52	M41B	Z	.162	.162	0	%100
53	M42A	X	-.178	-.178	0	%100
54	M42A	Z	.308	.308	0	%100
55	M43B	X	-.178	-.178	0	%100
56	M43B	Z	.308	.308	0	%100
57	O2	X	-.176	-.176	0	%100
58	O2	Z	.305	.305	0	%100
59	M45A	X	-.095	-.095	0	%100
60	M45A	Z	.164	.164	0	%100
61	M46B	X	-.147	-.147	0	%100
62	M46B	Z	.255	.255	0	%100
63	M47C	X	-.147	-.147	0	%100
64	M47C	Z	.255	.255	0	%100
65	M48B	X	-.094	-.094	0	%100
66	M48B	Z	.162	.162	0	%100
67	M49A	X	-.094	-.094	0	%100
68	M49A	Z	.162	.162	0	%100
69	MP5A	X	-.242	-.242	0	%100
70	MP5A	Z	.419	.419	0	%100
71	MP1A	X	-.242	-.242	0	%100
72	MP1A	Z	.419	.419	0	%100
73	MP3A	X	-.242	-.242	0	%100
74	MP3A	Z	.419	.419	0	%100
75	MP2A	X	-.242	-.242	0	%100
76	MP2A	Z	.419	.419	0	%100
77	MP4A	X	-.241	-.241	0	%100
78	MP4A	Z	.418	.418	0	%100
79	M56	X	-.018	-.018	0	%100
80	M56	Z	.031	.031	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.147	-.147	0	%100
2	M1	Z	.085	.085	0	%100
3	M3	X	-.147	-.147	0	%100
4	M3	Z	.085	.085	0	%100
5	M7	X	-.14	-.14	0	%100
6	M7	Z	.081	.081	0	%100
7	M10	X	-.14	-.14	0	%100
8	M10	Z	.081	.081	0	%100
9	M49	X	-.032	-.032	0	%100
10	M49	Z	.019	.019	0	%100
11	M50	X	-.032	-.032	0	%100
12	M50	Z	.019	.019	0	%100
13	M47A	X	-.005	-.005	0	%100
14	M47A	Z	.003	.003	0	%100
15	M48A	X	-.005	-.005	0	%100
16	M48A	Z	.003	.003	0	%100
17	M37A	X	-.315	-.315	0	%100
18	M37A	Z	.182	.182	0	%100
19	M38A	X	-.315	-.315	0	%100
20	M38A	Z	.182	.182	0	%100
21	M39	X	-.315	-.315	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
22	M39	Z	.182	.182	0 %100
23	M40A	X	-.146	-.146	0 %100
24	M40A	Z	.084	.084	0 %100
25	M41A	X	-.146	-.146	0 %100
26	M41A	Z	.084	.084	0 %100
27	O1	X	-.321	-.321	0 %100
28	O1	Z	.185	.185	0 %100
29	M43A	X	-.315	-.315	0 %100
30	M43A	Z	.182	.182	0 %100
31	M44A	X	-.27	-.27	0 %100
32	M44A	Z	.156	.156	0 %100
33	M45	X	-.27	-.27	0 %100
34	M45	Z	.156	.156	0 %100
35	M46	X	-.315	-.315	0 %100
36	M46	Z	.182	.182	0 %100
37	M47B	X	-.315	-.315	0 %100
38	M47B	Z	.182	.182	0 %100
39	M35	X	-.434	-.434	0 %100
40	M35	Z	.251	.251	0 %100
41	M36	X	-.434	-.434	0 %100
42	M36	Z	.251	.251	0 %100
43	M37B	X	-.069	-.069	0 %100
44	M37B	Z	.04	.04	0 %100
45	M38B	X	-.069	-.069	0 %100
46	M38B	Z	.04	.04	0 %100
47	M39A	X	-.315	-.315	0 %100
48	M39A	Z	.182	.182	0 %100
49	M40B	X	-.315	-.315	0 %100
50	M40B	Z	.182	.182	0 %100
51	M41B	X	-.315	-.315	0 %100
52	M41B	Z	.182	.182	0 %100
53	M42A	X	-.309	-.309	0 %100
54	M42A	Z	.178	.178	0 %100
55	M43B	X	-.309	-.309	0 %100
56	M43B	Z	.178	.178	0 %100
57	O2	X	-.321	-.321	0 %100
58	O2	Z	.185	.185	0 %100
59	M45A	X	-.315	-.315	0 %100
60	M45A	Z	.182	.182	0 %100
61	M46B	X	-.27	-.27	0 %100
62	M46B	Z	.156	.156	0 %100
63	M47C	X	-.27	-.27	0 %100
64	M47C	Z	.156	.156	0 %100
65	M48B	X	-.315	-.315	0 %100
66	M48B	Z	.182	.182	0 %100
67	M49A	X	-.315	-.315	0 %100
68	M49A	Z	.182	.182	0 %100
69	MP5A	X	-.449	-.449	0 %100
70	MP5A	Z	.259	.259	0 %100
71	MP1A	X	-.449	-.449	0 %100
72	MP1A	Z	.259	.259	0 %100
73	MP3A	X	-.449	-.449	0 %100
74	MP3A	Z	.259	.259	0 %100
75	MP2A	X	-.449	-.449	0 %100
76	MP2A	Z	.259	.259	0 %100
77	MP4A	X	-.445	-.445	0 %100
78	MP4A	Z	.257	.257	0 %100



Company :
 Designer :
 Job Number :
 Model Name :

May 27, 2021
 12:23 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
79	M56	X	-.232	-.232	0	%100
80	M56	Z	.134	.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M10	X	0	0	0	%100
8	M10	Z	0	0	0	%100
9	M49	X	-.271	-.271	0	%100
10	M49	Z	0	0	0	%100
11	M50	X	-.271	-.271	0	%100
12	M50	Z	0	0	0	%100
13	M47A	X	-.043	-.043	0	%100
14	M47A	Z	0	0	0	%100
15	M48A	X	-.043	-.043	0	%100
16	M48A	Z	0	0	0	%100
17	M37A	X	-.451	-.451	0	%100
18	M37A	Z	0	0	0	%100
19	M38A	X	-.451	-.451	0	%100
20	M38A	Z	0	0	0	%100
21	M39	X	-.451	-.451	0	%100
22	M39	Z	0	0	0	%100
23	M40A	X	-.263	-.263	0	%100
24	M40A	Z	0	0	0	%100
25	M41A	X	-.263	-.263	0	%100
26	M41A	Z	0	0	0	%100
27	O1	X	-.38	-.38	0	%100
28	O1	Z	0	0	0	%100
29	M43A	X	-.451	-.451	0	%100
30	M43A	Z	0	0	0	%100
31	M44A	X	-.32	-.32	0	%100
32	M44A	Z	0	0	0	%100
33	M45	X	-.32	-.32	0	%100
34	M45	Z	0	0	0	%100
35	M46	X	-.451	-.451	0	%100
36	M46	Z	0	0	0	%100
37	M47B	X	-.451	-.451	0	%100
38	M47B	Z	0	0	0	%100
39	M35	X	-.271	-.271	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	-.271	-.271	0	%100
42	M36	Z	0	0	0	%100
43	M37B	X	-.043	-.043	0	%100
44	M37B	Z	0	0	0	%100
45	M38B	X	-.043	-.043	0	%100
46	M38B	Z	0	0	0	%100
47	M39A	X	-.451	-.451	0	%100
48	M39A	Z	0	0	0	%100
49	M40B	X	-.451	-.451	0	%100
50	M40B	Z	0	0	0	%100
51	M41B	X	-.451	-.451	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
52	M41B	Z	0	0	%100
53	M42A	X	-.263	0	%100
54	M42A	Z	0	0	%100
55	M43B	X	-.263	0	%100
56	M43B	Z	0	0	%100
57	O2	X	-.38	0	%100
58	O2	Z	0	0	%100
59	M45A	X	-.451	0	%100
60	M45A	Z	0	0	%100
61	M46B	X	-.32	0	%100
62	M46B	Z	0	0	%100
63	M47C	X	-.32	0	%100
64	M47C	Z	0	0	%100
65	M48B	X	-.451	0	%100
66	M48B	Z	0	0	%100
67	M49A	X	-.451	0	%100
68	M49A	Z	0	0	%100
69	MP5A	X	-.536	0	%100
70	MP5A	Z	0	0	%100
71	MP1A	X	-.536	0	%100
72	MP1A	Z	0	0	%100
73	MP3A	X	-.536	0	%100
74	MP3A	Z	0	0	%100
75	MP2A	X	-.536	0	%100
76	MP2A	Z	0	0	%100
77	MP4A	X	-.53	0	%100
78	MP4A	Z	0	0	%100
79	M56	X	-.5	0	%100
80	M56	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.147	0	%100
2	M1	Z	-.085	0	%100
3	M3	X	-.147	0	%100
4	M3	Z	-.085	0	%100
5	M7	X	-.14	0	%100
6	M7	Z	-.081	0	%100
7	M10	X	-.14	0	%100
8	M10	Z	-.081	0	%100
9	M49	X	-.434	0	%100
10	M49	Z	-.251	0	%100
11	M50	X	-.434	0	%100
12	M50	Z	-.251	0	%100
13	M47A	X	-.069	0	%100
14	M47A	Z	-.04	0	%100
15	M48A	X	-.069	0	%100
16	M48A	Z	-.04	0	%100
17	M37A	X	-.315	0	%100
18	M37A	Z	-.182	0	%100
19	M38A	X	-.315	0	%100
20	M38A	Z	-.182	0	%100
21	M39	X	-.315	0	%100
22	M39	Z	-.182	0	%100
23	M40A	X	-.309	0	%100
24	M40A	Z	-.178	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
25	M41A	X	-309	-309	0 %100
26	M41A	Z	-178	-178	0 %100
27	O1	X	-321	-321	0 %100
28	O1	Z	-185	-185	0 %100
29	M43A	X	-315	-315	0 %100
30	M43A	Z	-182	-182	0 %100
31	M44A	X	-27	-27	0 %100
32	M44A	Z	-156	-156	0 %100
33	M45	X	-27	-27	0 %100
34	M45	Z	-156	-156	0 %100
35	M46	X	-315	-315	0 %100
36	M46	Z	-182	-182	0 %100
37	M47B	X	-315	-315	0 %100
38	M47B	Z	-182	-182	0 %100
39	M35	X	-032	-032	0 %100
40	M35	Z	-019	-019	0 %100
41	M36	X	-032	-032	0 %100
42	M36	Z	-019	-019	0 %100
43	M37B	X	-005	-005	0 %100
44	M37B	Z	-003	-003	0 %100
45	M38B	X	-005	-005	0 %100
46	M38B	Z	-003	-003	0 %100
47	M39A	X	-315	-315	0 %100
48	M39A	Z	-182	-182	0 %100
49	M40B	X	-315	-315	0 %100
50	M40B	Z	-182	-182	0 %100
51	M41B	X	-315	-315	0 %100
52	M41B	Z	-182	-182	0 %100
53	M42A	X	-146	-146	0 %100
54	M42A	Z	-084	-084	0 %100
55	M43B	X	-146	-146	0 %100
56	M43B	Z	-084	-084	0 %100
57	O2	X	-321	-321	0 %100
58	O2	Z	-185	-185	0 %100
59	M45A	X	-315	-315	0 %100
60	M45A	Z	-182	-182	0 %100
61	M46B	X	-27	-27	0 %100
62	M46B	Z	-156	-156	0 %100
63	M47C	X	-27	-27	0 %100
64	M47C	Z	-156	-156	0 %100
65	M48B	X	-315	-315	0 %100
66	M48B	Z	-182	-182	0 %100
67	M49A	X	-315	-315	0 %100
68	M49A	Z	-182	-182	0 %100
69	MP5A	X	-449	-449	0 %100
70	MP5A	Z	-259	-259	0 %100
71	MP1A	X	-449	-449	0 %100
72	MP1A	Z	-259	-259	0 %100
73	MP3A	X	-449	-449	0 %100
74	MP3A	Z	-259	-259	0 %100
75	MP2A	X	-449	-449	0 %100
76	MP2A	Z	-259	-259	0 %100
77	MP4A	X	-445	-445	0 %100
78	MP4A	Z	-257	-257	0 %100
79	M56	X	-433	-433	0 %100
80	M56	Z	-25	-25	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,kSF]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-0.254	-0.254	0 %100
2	M1	Z	-0.44	-0.44	0 %100
3	M3	X	-0.254	-0.254	0 %100
4	M3	Z	-0.44	-0.44	0 %100
5	M7	X	-0.243	-0.243	0 %100
6	M7	Z	-0.421	-0.421	0 %100
7	M10	X	-0.243	-0.243	0 %100
8	M10	Z	-0.421	-0.421	0 %100
9	M49	X	-0.249	-0.249	0 %100
10	M49	Z	-0.432	-0.432	0 %100
11	M50	X	-0.249	-0.249	0 %100
12	M50	Z	-0.432	-0.432	0 %100
13	M47A	X	-0.039	-0.039	0 %100
14	M47A	Z	-0.068	-0.068	0 %100
15	M48A	X	-0.039	-0.039	0 %100
16	M48A	Z	-0.068	-0.068	0 %100
17	M37A	X	-0.095	-0.095	0 %100
18	M37A	Z	-0.164	-0.164	0 %100
19	M38A	X	-0.094	-0.094	0 %100
20	M38A	Z	-0.162	-0.162	0 %100
21	M39	X	-0.094	-0.094	0 %100
22	M39	Z	-0.162	-0.162	0 %100
23	M40A	X	-0.178	-0.178	0 %100
24	M40A	Z	-0.308	-0.308	0 %100
25	M41A	X	-0.178	-0.178	0 %100
26	M41A	Z	-0.308	-0.308	0 %100
27	O1	X	-0.176	-0.176	0 %100
28	O1	Z	-0.305	-0.305	0 %100
29	M43A	X	-0.095	-0.095	0 %100
30	M43A	Z	-0.164	-0.164	0 %100
31	M44A	X	-0.147	-0.147	0 %100
32	M44A	Z	-0.255	-0.255	0 %100
33	M45	X	-0.147	-0.147	0 %100
34	M45	Z	-0.255	-0.255	0 %100
35	M46	X	-0.094	-0.094	0 %100
36	M46	Z	-0.162	-0.162	0 %100
37	M47B	X	-0.094	-0.094	0 %100
38	M47B	Z	-0.162	-0.162	0 %100
39	M35	X	-0.017	-0.017	0 %100
40	M35	Z	-0.03	-0.03	0 %100
41	M36	X	-0.017	-0.017	0 %100
42	M36	Z	-0.03	-0.03	0 %100
43	M37B	X	-0.003	-0.003	0 %100
44	M37B	Z	-0.005	-0.005	0 %100
45	M38B	X	-0.003	-0.003	0 %100
46	M38B	Z	-0.005	-0.005	0 %100
47	M39A	X	-0.095	-0.095	0 %100
48	M39A	Z	-0.164	-0.164	0 %100
49	M40B	X	-0.094	-0.094	0 %100
50	M40B	Z	-0.162	-0.162	0 %100
51	M41B	X	-0.094	-0.094	0 %100
52	M41B	Z	-0.162	-0.162	0 %100
53	M42A	X	-0.084	-0.084	0 %100
54	M42A	Z	-0.145	-0.145	0 %100
55	M43B	X	-0.084	-0.084	0 %100
56	M43B	Z	-0.145	-0.145	0 %100
57	O2	X	-0.176	-0.176	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
58	O2	Z	- .305	- .305	0 %100
59	M45A	X	- .095	- .095	0 %100
60	M45A	Z	- .164	- .164	0 %100
61	M46B	X	- .147	- .147	0 %100
62	M46B	Z	- .255	- .255	0 %100
63	M47C	X	- .147	- .147	0 %100
64	M47C	Z	- .255	- .255	0 %100
65	M48B	X	- .094	- .094	0 %100
66	M48B	Z	- .162	- .162	0 %100
67	M49A	X	- .094	- .094	0 %100
68	M49A	Z	- .162	- .162	0 %100
69	MP5A	X	- .242	- .242	0 %100
70	MP5A	Z	- .419	- .419	0 %100
71	MP1A	X	- .242	- .242	0 %100
72	MP1A	Z	- .419	- .419	0 %100
73	MP3A	X	- .242	- .242	0 %100
74	MP3A	Z	- .419	- .419	0 %100
75	MP2A	X	- .242	- .242	0 %100
76	MP2A	Z	- .419	- .419	0 %100
77	MP4A	X	- .241	- .241	0 %100
78	MP4A	Z	- .418	- .418	0 %100
79	M56	X	- .134	- .134	0 %100
80	M56	Z	- .232	- .232	0 %100

Member Area Loads

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

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

Member	Shape	Code Check	Loc[ft]	LC	Sh... Loc[ft]	LC	phi*...	phi*...	phi*...	phi*...	Eqn	
1	M1	L4X3X6	.000	.281	18	.000 .281 z	24	8019..	.80676	2.686	7.063	...H2-1
2	M3	L4X3X6	.000	.281	18	.000 .281 z	24	8019..	.80676	2.686	7.063	...H2-1
3	M7	PIPE_...	.962	4.25	9	.073 4.25	9	7871..	.50715	3.596	3.596	...H1-...
4	M10	PIPE_...	.787	4.25	9	.147 4.25	3	7871..	.50715	3.596	3.596	...H1-...
5	M49	PIPE_...	.659	0	3	.081 .486	39	2136..	.32130	1.872	1.872	...H1-...
6	M50	PIPE_...	.582	0	3	.102 5.833	39	2136..	.32130	1.872	1.872	...H1-...
7	M47A	PL3/8X...	.379	.207	39	.117 0 y	46	3544..	.36450	.284	2.083	...H1-...
8	M48A	PL3/8X...	.501	.207	45	.140 .207 y	39	3544..	.36450	.284	2.083	...H1-...
9	M37A	PL3/8x...	.016	.271	5	.060 0 y	3	7824..	.8200...	.64	11.5...	...H1-...
10	M38A	PL3/8x...	.030	0	39	.060 0 y	9	7929..	.8200...	.64	11.5...	...H1-...
11	M39	PL3/8x...	.004	0	18	.080 0 y	49	7929..	.8200...	.64	11.5...	...H1-...
12	M40A	PIPE_...	.116	3.388	45	.095 3.388	3	1476..	.1968...	.801	.801	...H1-...
13	M41A	PIPE_...	.122	3.388	42	.007 0	3	1476..	.1968...	.801	.801	...H1-...
14	O1	PIPE_...	.028	.745	3	.011 0	3	3086..	.32130	1.872	1.872	...H1-...
15	M43A	PL3/8x...	.013	0	5	.060 .271 y	4	7824..	.8200...	.64	11.5...	...H1-...
16	M44A	PIPE_...	.029	1.014	46	.017 2.375	3	1709..	.1968...	.801	.801	...H1-...
17	M45	PIPE_...	.013	1.113	17	.022 0	49	1709..	.1968...	.801	.801	...H1-...
18	M46	PL3/8x...	.082	.229	3	.198 .229 y	3	7929..	.8200...	.64	11.5...	...H1-...
19	M47B	PL3/8x...	.035	.229	44	.108 0 y	46	7929..	.8200...	.64	11.5...	...H1-...
20	M35	PIPE_...	.383	0	3	.079 .486	36	2136..	.32130	1.872	1.872	...H1-...
21	M36	PIPE_...	.364	0	3	.100 5.833	33	2136..	.32130	1.872	1.872	...H1-...
22	M37B	PL3/8X...	.390	.207	3	.129 0 y	26	3544..	.36450	.284	2.083	...H1-...
23	M38B	PL3/8X...	.490	.207	21	.152 0 y	33	3544..	.36450	.284	2.083	...H1-...
24	M39A	PL3/8x...	.020	.271	9	.026 0 y	27	7824..	.8200...	.64	11.5...	...H1-...

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

Member	Shape	Code Check	Loc[ft]	LC	Sh...Loc[ft]	LC	phi*...	phi*...	phi*...	phi*...	Eqn
25	M40B	PL3/8x...	.035	0	3	.088 0 y	3	7929..8200..	.64	11.5...	H1-...
26	M41B	PL3/8x...	.004	0	21	.076 0 y	49	7929..8200..	.64	11.5...	H1-...
27	M42A	PIPE_...	.111	3.388	25	.044 3.388	3	1476..1968..	.801	.801	H1-...
28	M43B	PIPE_...	.118	3.388	13	.022 3.388	3	1476..1968..	.801	.801	H1-...
29	O2	PIPE_...	.027	.745	9	.006 0	3	3086..32130	1.872	1.872	H1-...
30	M45A	PL3/8x...	.015	0	9	.026 .271 y	27	7824..8200..	.64	11.5...	H1-...
31	M46B	PIPE_...	.029	1.113	15	.007 0	16	1709..1968..	.801	.801	H1-...
32	M47C	PIPE_...	.014	1.113	16	.021 0	49	1709..1968..	.801	.801	H1-...
33	M48B	PL3/8x...	.038	.229	3	.106 .229 y	9	7929..8200..	.64	11.5...	H1-...
34	M49A	PL3/8x...	.035	.229	21	.113 0 y	49	7929..8200..	.64	11.5...	H1-...
35	MP5A	PIPE_...	.485	2.188	3	.165 1.198	9	2380..32130	1.872	1.872	H1-...
36	MP1A	PIPE_...	.264	3.958	49	.093 1.146	5	2380..32130	1.872	1.872	H1-...
37	MP3A	PIPE_...	.085	1.838	49	.024 1.838	49	2061..32130	1.872	1.872	H1-...
38	MP2A	PIPE_...	.142	6.563	20	.163 6.563	5	8922..32130	1.872	1.872	H1-...
39	MP4A	PIPE_...	.122	3.977	9	.048 1.208	3	2428..32130	1.872	1.872	H1-...
40	M56	PIPE_...	.102	0	9	.004 0	10	1545..32130	1.872	1.872	H1-...

Envelope Joint Reactions

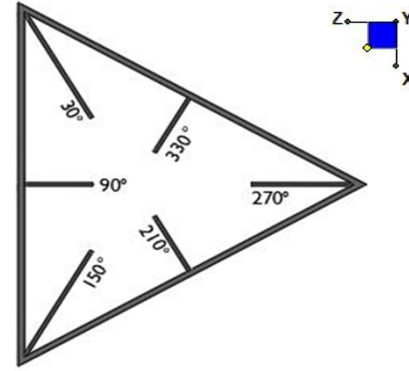
Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N4	max	1458.568	10	895.764	19	388.034	2	-.116	4	0	.51	.041	49
2		min	-1286.178	4	382.18	12	-4009.061	20	-.285	23	0	1	-.027	39
3	N65	max	1003.364	49	1502.771	23	3870.725	14	-.189	10	0	.51	.05	49
4		min	-1083.713	40	653.009	5	176.247	8	-.433	17	0	1	-.037	45
5	N87	max	329.369	3	34.458	15	1506.823	9	0	51	0	.51	0	51
6		min	-358.07	9	4.436	9	-1525.011	3	0	1	0	1	0	1
7	Totals:	max	1975.538	10	2425.044	21	2369.06	1						
8		min	-1975.537	4	1068.947	2	-2369.053	7						



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N4	90
N65	90

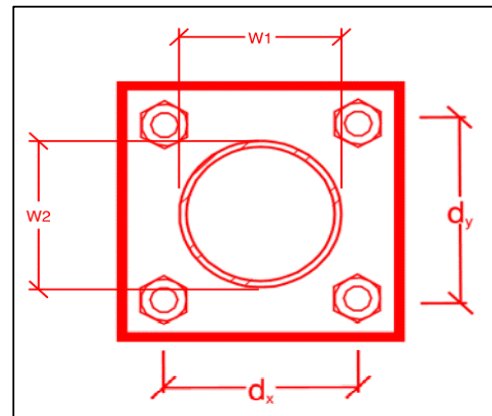


TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:
 Bolt Quantity per Reaction:
 d_x (in) (Delta X of typ. bolt config. sketch) :
 d_y (in) (Delta Y of typ. bolt config. sketch) :
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength (kips):
 Required Shear Strength (kips):
 Tensile Strength / bolt (kips):
 Shear Strength / bolt (kips):
 Tensile Capacity Overall:
 Shear Capacity Overall:

yes
2
3.5
1.75
U-Bolt
0.5
9.8
1.8
16.3
9.8
30.0%*
9.2%



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

Purpose – to provide Maser Consulting 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 installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.


















Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting 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 equipment modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- **Photos taken at Mount Elevation**
 - Photos showing each individual sector before and also after installation of equipment.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis

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

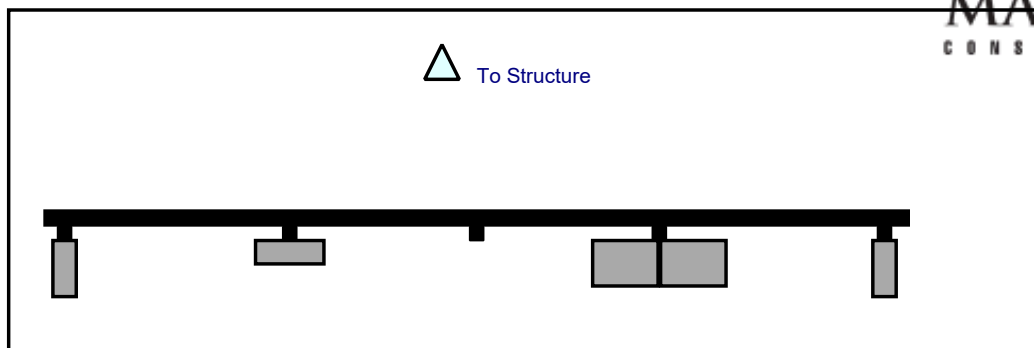
Sector: A
 Structure Type: Self Support
 Mount Elev: 65.00

1/27/2021

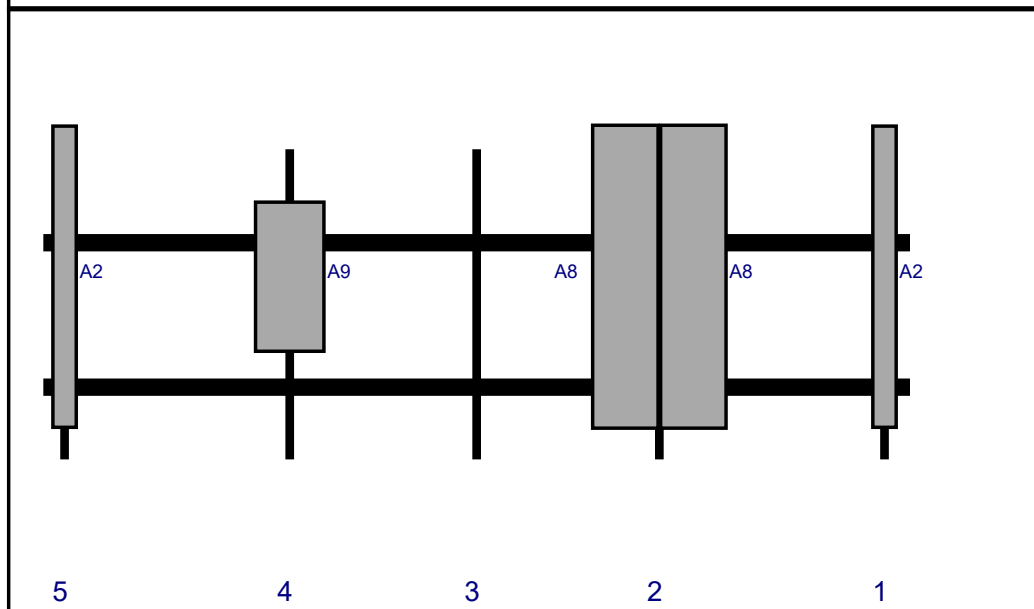
Page: 1



Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	LPA-80080/6CF	70.9	5.5	198	1	a	Front	30	0	Retained	11/20/2020
A8	MX06FRO660-02	71.3	15.4	145	2	a	Front	30	-8	Added	
A8	MX06FRO660-02	71.3	15.4	145	2	b	Front	30	8	Added	
A9	MT6407-77A	35.1	16.1	58	4	a	Front	30	0	Added	
A2	LPA-80080/6CF	70.9	5.5	5	5	a	Front	30	0	Retained	11/20/2020

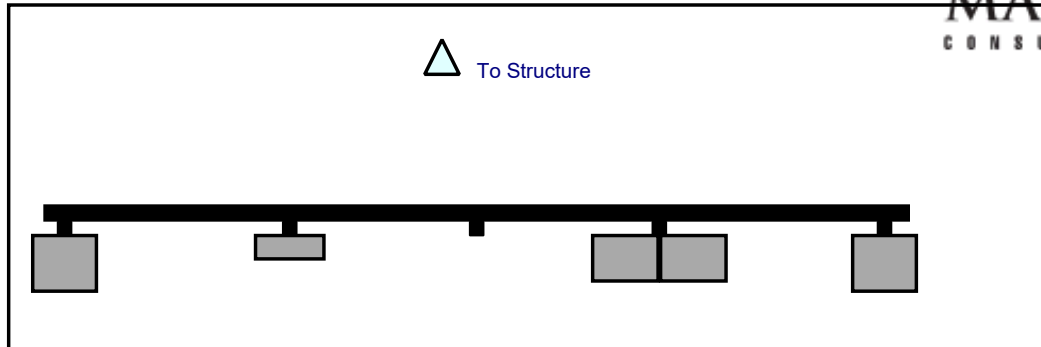
Sector: **B**
 Structure Type: Self Support
 Mount Elev: 65.00

1/27/2021

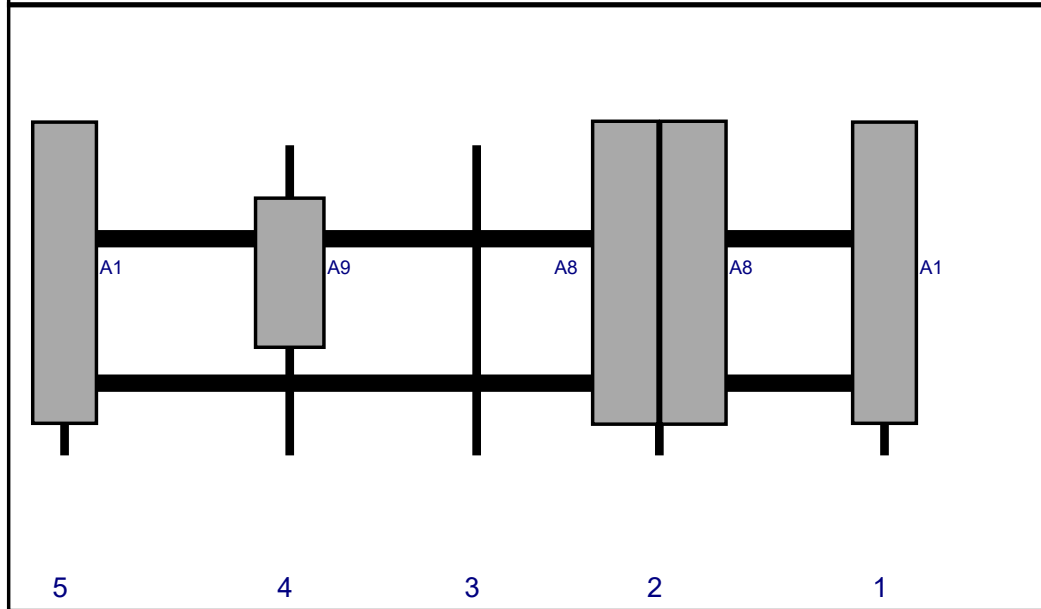
Page: 2



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	LPA-80063/6CF	70.9	15	198	1	a	Front	30	0	Retained	11/20/2020
A8	MX06FRO660-02	71.3	15.4	145	2	a	Front	30	-8	Added	
A8	MX06FRO660-02	71.3	15.4	145	2	b	Front	30	8	Added	
A9	MT6407-77A	35.1	16.1	58	4	a	Front	30	0	Added	
A1	LPA-80063/6CF	70.9	15	5	5	a	Front	30	0	Retained	11/20/2020

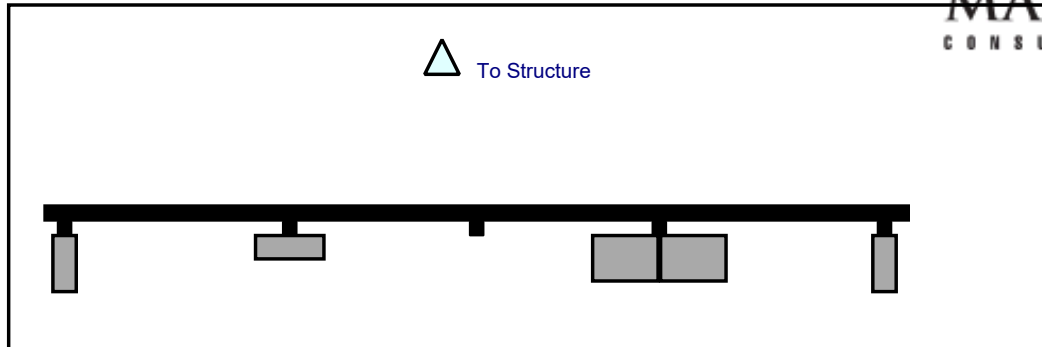
Sector: C
 Structure Type: Self Support
 Mount Elev: 65.00

1/27/2021

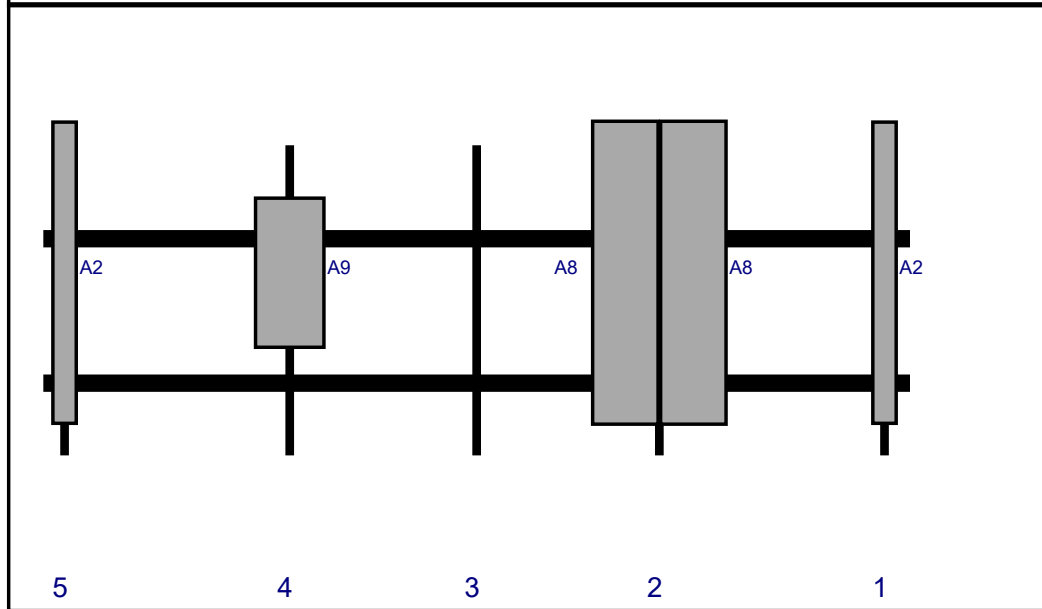
Page: 3



Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	LPA-80080/6CF	70.9	5.5	198	1	a	Front	30	0	Retained	11/20/2020
A8	MX06FRO660-02	71.3	15.4	145	2	a	Front	30	-8	Added	
A8	MX06FRO660-02	71.3	15.4	145	2	b	Front	30	8	Added	
A9	MT6407-77A	35.1	16.1	58	4	a	Front	30	0	Added	
A2	LPA-80080/6CF	70.9	5.5	5	5	a	Front	30	0	Retained	11/20/2020

Maser Consulting Connecticut

Subject

TIA-222-H Adoption and Wind Speed Usage

Site Information

Site ID: 468199-VZW / Meriden East CT
Site Name: Meriden East CT
Carrier Name: Verizon Wireless
Address: 38 Elm Street
Meriden, Connecticut 06450
New Haven County
Latitude: 41.534265°
Longitude: -72.796485°

Structure Information

Tower Type: 71-Ft Self Support
Mount Type: 17.00-Ft Sector Frame

To Whom It May Concern,

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

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

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

Taqi Khawaja, PE
Technical Manager

ATTACHMENT 5

T PARK





CITY OF MERIDEN

GIS Services

DISCLAIMER: The City of Meriden maintains this website to enhance public access to the City's tax assessment information. However, this information is continually being developed and is subject to change. The data presented here is not legally binding on the City of Meriden or any of its departments. This website reflects the best information available to the City Assessor and it should not be construed as confirming or denying the existence of any permits, licenses, or other such rights. The City of Meriden shall not be liable for any loss, damages, or claims that arise out of the user's access to, and use of, this information.

THE USER IS RESPONSIBLE FOR CHECKING THE ACCURACY OF ALL INFORMATION OBTAINED WITH THE APPROPRIATE CITY DEPARTMENT AND TO COMPLY WITH ALL CURRENT LAWS, RULES, REGULATIONS, ORDINANCES, PROCEDURES, AND GUIDELINES.

PROPERTY INFORMATION

Location: **38 ELM ST** Map/Lot: 0218-0111-0006-0000

OWNER INFORMATION

Owner(s):

ASHLEY HARRIMAN LLC
C/O TIM WALSH

Owner Address:

38 ELM ST
MERIDEN, CT 06450

BUILDING INFORMATION

OVERVIEW

Card Number:

1

Building ID	3549
Finished Area	8,450
Comm/Rental Units	1
Living Units	0

Building Type	Ind Mfg (L)
Year Built	1920
Effective Yr Built	
Building Number	1
Condo Name	

INTERIOR DETAILS

Rooms

BedRooms

Full Bath	0
------------------	---

Full Bath Rating	
-------------------------	--

Half Bath	0
------------------	---

Half Bath Rating	
-------------------------	--

Kitchens	0
-----------------	---

Kitchen Rating	
-----------------------	--

Fireplaces	0
-------------------	---

CONSTRUCTION DETAILS

Exterior

Roof Structure

Roof Cover

Quality	C-
----------------	----

Heat Fuel	Oil
------------------	-----

Heat Type	Conv
------------------	------

Prcnt. Heated	100.00
----------------------	--------

Prcnt. AC	25.00
------------------	-------

Stories	2 story
----------------	---------

Foundation

Sub Area Summary

Building ID	Description	Total Area	Fin. Area	Perimeter
3549	MFG AREA	5,760	5,760	304
3549	OFFICE	1,345	1,345	164
3549	OFFICE	1,345	1,345	164

Special Features

BuildingID	Description	Quantity	Area	Length	Width	YearBuilt	Quality
3549	PAVING-ASPT	1	19,000			1920	Average
3549	CELL TOWER	1	1			1920	Average
3549	UTILITY BLDG	1	1			1920	Average

APPRAISAL INFORMATION

Tax District: 2

District Name: INNER DISTRICT

District Mill Rate: 43.4

Grand List

Year: 2020

Land Appraised	Building Appraised	Yard Appraised	Total Appraised Value	Land Assessed	Building Assessed	Yard Assessed
\$165,300	\$262,400	\$245,800	\$673,500	\$115,710	\$183,680	\$172,110

Previous

Year: 2019

Land Appraised	Building Appraised	Yard Appraised	Appraised Value	Land Assesed	Building Assessed	Yard Assesed
\$165,300	\$262,400	\$245,800	\$673,500	\$115,710	\$183,680	\$172,110

LAND INFORMATION

Land Use	Zoning	Land Area	Neighborhood Description
Comm Bldg	M-2	0.99842	INNER CITY AREA

*Confirm zoning with Planning Office.
Zoning map is the official document to determine zone.

SALES INFORMATION

Sale Date	Sale Price	Book	Page	Grantor	Grantee	Deed Type
3/7/1997	\$190,413	2247	343			

ASSESSOR'S PERMIT HISTORY

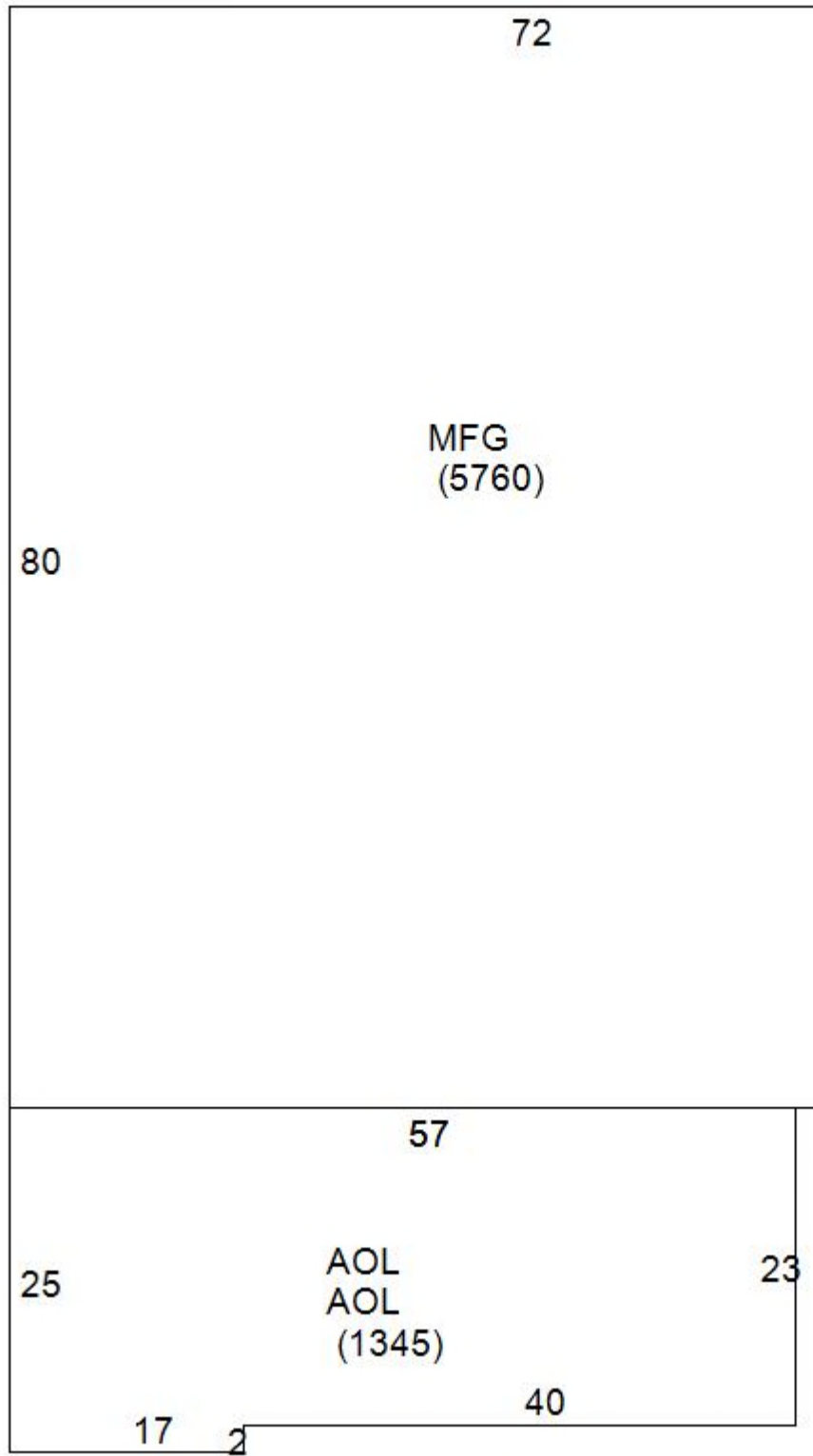
ADVISORY: Residents should not use Assessor Field Cards on the City of Meriden's list building permit status. The building department is the ONLY place where citizens and their status, homeowners and title searchers who need to check permits when se

Date	Permit#	Description	Permit Type	Cost
4/8/2010	872	Verizon - Remove 3 existing antennae and replace with 3 hte antennae per plans and to code.	C	\$3,000
7/20/2010	2105	CORRECT ELECTRICAL VIOLATIONS PER CODE.		\$5,500
3/4/2013	530			\$20,000
12/3/2015	B-15-1017	REPLACE ANTENNAE PANELS/ADD REMOTE RADIO HEADS(6) ON EXISTING CELL TOWER.		\$15,000

4/21/2017	B-17-266	REPLACE 6 REMOTE RADIO HEADS TO CELL TOWER.		\$15,000
6/5/2017	E-17-318	NEW FIBER PIPE/CONDUIT FROM SHELTER TO STREET,NO CHANGE TO TOWER.6/29/17 APPROVED BY BLDG DEPT.		\$5,000
9/28/2017	M-17-298	INSTALLATION OF FM200 SYSTEM IN ONE ROOM 27X15,8X10FT.		\$14,750

**PROPERTY
IMAGES**





3550

0218-0111-0006-0000


1

ATTACHMENT 6



MERIDEN EAST

Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender <div style="font-size: 2em; text-align: center;">3</div>	TOTAL NO. of Pieces Received at Post Office™ <div style="font-size: 2em; text-align: center;">3</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right;"> <p>neopostTM 06/17/2021 US POSTAGE \$002.89⁰</p>  <p>ZIP 06103 041L12203937</p> </div>
	Postmaster, per (name of receiving employee)		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Kevin Scarpati, Mayor City of Meriden 142 East Main Street Meriden, CT 06450				
2.	Paul Dickson, Acting Director of Planning, Development and Enforcement City of Meriden 142 East Main Street Meriden, CT 06450				
3.	Ashley Harriman LLC Attn: Tim Walsh 38 Elm Street Meriden, CT 06450				
4.					
5.					
6.					

